

Rainbow papers

Cross-system expression

MJos Predictive Model

The first manifestation of the Bangel Language

MJ Physics Engineering

Owned and operated by Michael Bangel

Clearwater, Florida

Recovered collection / terminology edition

1351 recovered source pages

Prepared for review. Not published.

This source-faithful terminology edition updates the language name and publication identity while retaining mathematical expressions, source IDs, historical evidence and page graphics. It is not a fresh execution of the historical tests. Read the companion searchable library for current project sequencing and unresolved semantic relationships.

White papers are excluded. References to White paper identities remain historical citations. Original source hashes refer to the prior originals; revised output hashes are recorded separately.

Gold and Indigo: the original volumes were not recovered. Any new reconstruction is separately identified and must not be counted as those missing volumes.

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

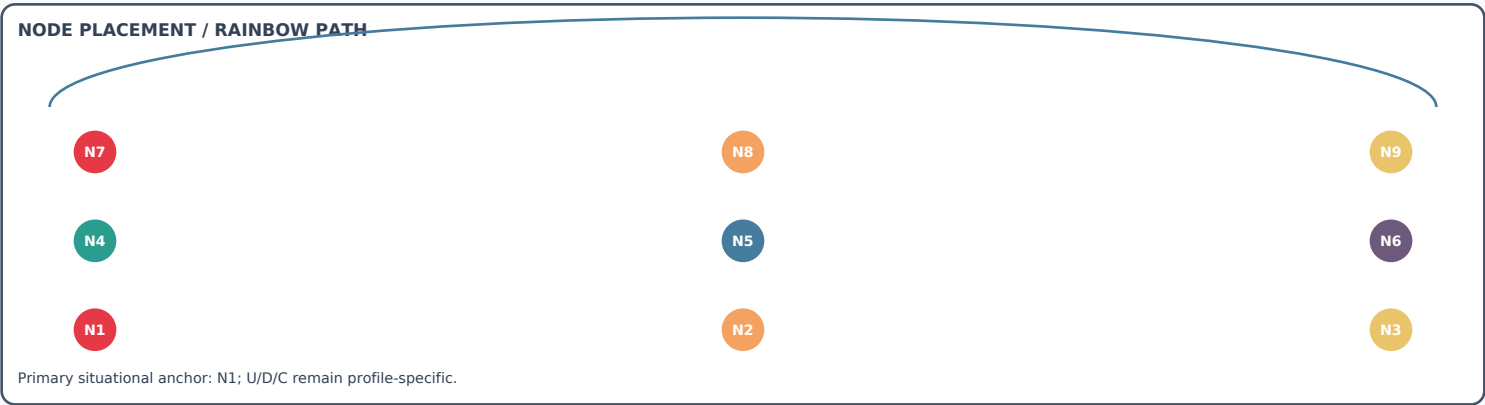
F-001: R0 -> R1. F-001 means R1 is the unidentified transitional phase.

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.R1_transition
reference "BP-ALG-001"
state R -> R1
node N1
representation JP(BP-ALG-001)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# F-001: R0 -> R1. F-001 means R1 is the unidentified transitional phase.
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	F-002: R1 --validated--> R2. F-002 means R2 is the immutable living static representation.

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.R2_transition
reference "BP-ALG-002"
state R -> R1
node N1
representation JP(BP-ALG-002)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# F-002: R1 --validated--> R2. F-002 means R2 is the immutable living static representation.
```


NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

F-004: m_floor = 23 mg. F-004 means Pre-observational model floor, not a universal minimum or product mass.

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Mass_infection
reference "BP-ALG-004"
state R -> R1
node N5
representation JP(BP-ALG-004)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# F-004: m_floor = 23 mg. F-004 means Pre-observational model floor, not a universal minimum or product mass.
```

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

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SOURCE RULE / INTENT

F-005: $n_{\text{bar}}[t] = 0.9 \cdot n_{\text{bar}}[t-1] + 0.1 \cdot n[t]$. F-005 means Drip-level smoothing.

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Noise_smoothing
reference "BP-ALG-005"
state R -> R1
node N1
representation JP(BP-ALG-005)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# F-005:  $n_{\text{bar}}[t] = 0.9 \cdot n_{\text{bar}}[t-1] + 0.1 \cdot n[t]$ . F-005 means Drip-level smoothing.
```

Node Placement / Rainbow Path

Rectangle

Cone

Sister umbrella

EVE/lake

next-cycle re-entry

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

F-006: $n_dot[t] = (2/3)*n_dot[t-1] + (1/3)*(n_bar[t]-n_bar[t-1])/dt$. F-006 means One-third trend update.

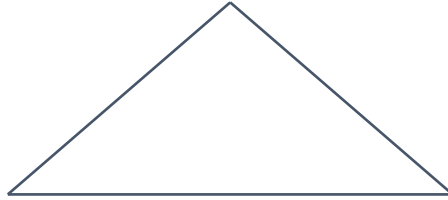
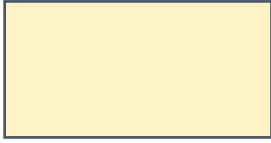
Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Trend_estimator
reference "BP-ALG-006"
state R -> R1
node N1
representation JP(BP-ALG-006)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# F-006:  $n\_dot[t] = (2/3)*n\_dot[t-1] + (1/3)*(n\_bar[t]-n\_bar[t-1])/dt$ . F-006 means One-third trend update.
```

NODE PLACEMENT / RAINBOW PATH



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

F-007: support ≥ 3 of 5 AND 3 qualified windows. F-007 means Single spike cannot trigger full reweighting.

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Anti_spike_gate
reference "BP-ALG-007"
state R -> R1
node N1
representation JP(BP-ALG-007)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# F-007: support>=3 of 5 AND 3 qualified windows. F-007 means Single spike cannot trigger full reweighting.
```


NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

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SOURCE RULE / INTENT

F-009: $\text{Sigma_next} = 0.9 \cdot \text{Sigma_prev} + 0.1 \cdot e^T$. F-009 means Positive-semidefinite sequential covariance.

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Covariance_update
reference "BP-ALG-009"
state R -> R1
node N1
representation JP(BP-ALG-009)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# F-009: Sigma_next = 0.9*Sigma_prev + 0.1*e^T. F-009 means Positive-semidefinite sequential covariance.
```

NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

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SOURCE RULE / INTENT

F-010: $H = \sqrt{\lambda_{\max}(\Sigma)}$. F-010 means Uncertainty depth.

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Shadow_depth
reference "BP-ALG-010"
state R -> R1
node N1
representation JP(BP-ALG-010)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# F-010:  $H = \sqrt{\lambda_{\max}(\Sigma)}$ . F-010 means Uncertainty depth.
```

NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

F-011: $v_shadow = (H_next - H_prev) / dt$. F-011 means Rate of uncertainty expansion or resolution.

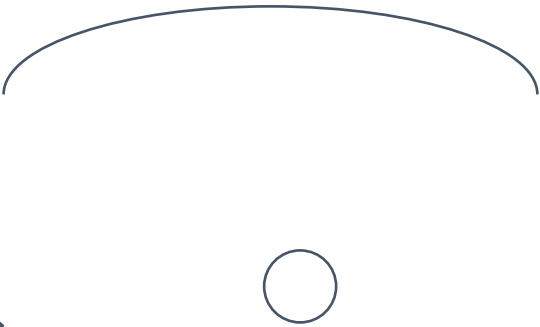
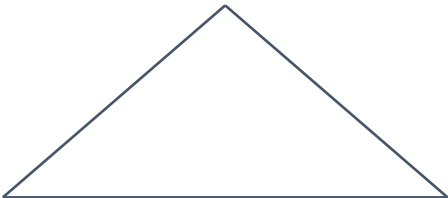
PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Shadow_growth_rate
reference "BP-ALG-011"
state R -> R1
node N1
representation JP(BP-ALG-011)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# F-011: v_shadow = (H_next-H_prev)/dt. F-011 means Rate of uncertainty expansion or resolution.
```

NODE PLACEMENT / RAINBOW PATH



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

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SOURCE RULE / INTENT

F-012: a0 = 48383829/100000000; F-013: r0 = 51616171/100000000. F-012 means Exact initial N1 logical allocation. F-013 means Exact logical reserve.

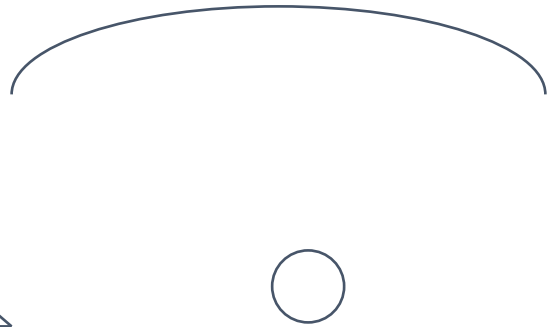
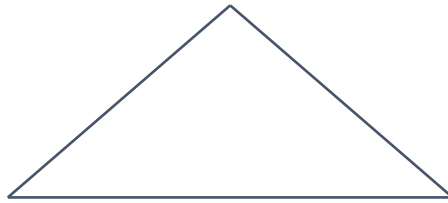
PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Front_end_allocation_Front_e
reference "BP-ALG-012"
state R -> R1
node N1
representation JP(BP-ALG-012)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# F-012: a0 = 48383829/100000000; F-013: r0 = 51616171/100000000. F-012 means Exact initial N1 logical allocation. F-013 m
```

NODE PLACEMENT / RAINBOW PATH



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

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SOURCE RULE / INTENT

F-014: $w_next = \text{projection}((2/3)w + (1/3)w_target)$. F-014 means Nonnegative, sum-to-one, per-step change ≤ 0.1 .

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

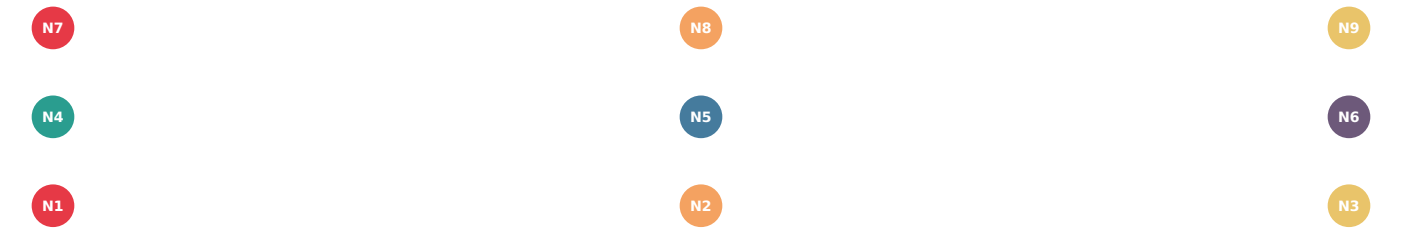
CODE / MATH / PROCESS REPRESENTATION

```

module MJ.Rainbow.Bounded_allocation_update
reference "BP-ALG-013"
state R -> R1
node N1
representation JP(BP-ALG-013)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# F-014:  $w_{next} = projection((2/3)w + (1/3)w_{target})$ . F-014 means Nonnegative, sum-to-one, per-step change  $\leq 0.1$ .

```


NODE PLACEMENT / RAINBOW PATH



Primary situational anchor: N1; U/D/C remain profile-specific.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

F-016: $M_{pre} = M_{request} + M_{sync} + M_{residual} + M_{evidence} + M_{headroom}$. F-016 means Preallocate before reserve exhaustion.

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Memory_preallocation
reference "BP-ALG-015"
state R -> R1
node N1
representation JP(BP-ALG-015)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# F-016: M_pre = M_request + M_sync + M_residual + M_evidence + M_headroom. F-016 means Preallocate before reserve exhaust
```


Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

Source Rule / Intent

F-018: $dQ/dt = I_{\text{intake}} - I_{\text{leak}} - I_{\text{release}}$. F-018 means Static-intake charge accounting.

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Charge_balance
reference "BP-ALG-017"
state R -> R1
node N1
representation JP(BP-ALG-017)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# F-018:  $dQ/dt = I_{\text{intake}} - I_{\text{leak}} - I_{\text{release}}$ . F-018 means Static-intake charge accounting.
```

NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

F-019: $E = 0.5 \cdot C \cdot V^2$. F-019 means Valid only for evidenced constant capacitance.

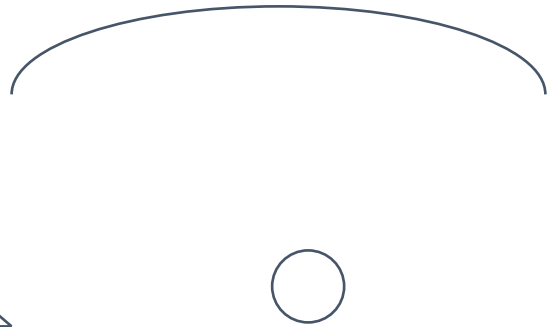
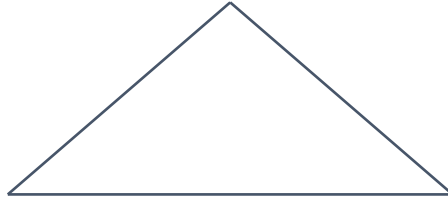
PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Capacitor_energy
reference "BP-ALG-018"
state R -> R1
node N1
representation JP(BP-ALG-018)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# F-019:  $E = 0.5 \cdot C \cdot V^2$ . F-019 means Valid only for evidenced constant capacitance.
```

NODE PLACEMENT / RAINBOW PATH



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

F-020: $E = \text{integral } V(q)dq$. F-020 means General charge-storage energy.

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

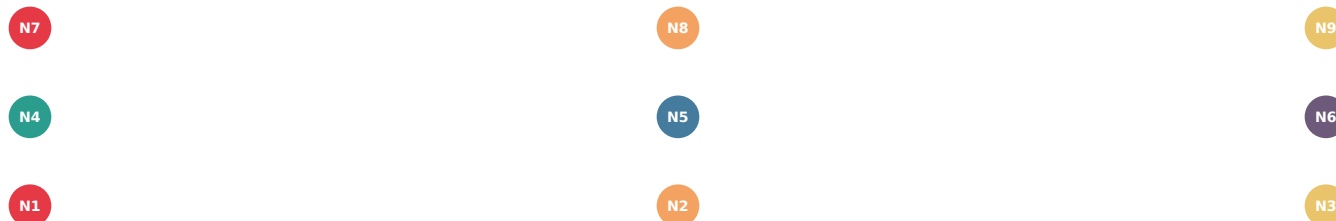
CODE / MATH / PROCESS REPRESENTATION

```

module MJ.Rainbow.General_stored_energy
reference "BP-ALG-019"
state R -> R1
node N1
representation JP(BP-ALG-019)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# F-020:  $E = \int V(q) dq$ . F-020 means General charge-storage energy.

```


NODE PLACEMENT / RAINBOW PATH



Primary situational anchor: N1; U/D/C remain profile-specific.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

F-022: $r_M = M_{\text{initial}} + M_{\text{inputs}} - M_{\text{final}} - M_{\text{outputs}}$; F-023: $M_{\text{screen_in}} = M_{\text{captured}} + M_{\text{passed}} + M_{\text{retained}} + r_{\text{screen}}$. F-022 means Physical mass conservation. F-023 means Screen capture never assumes perfect retention.

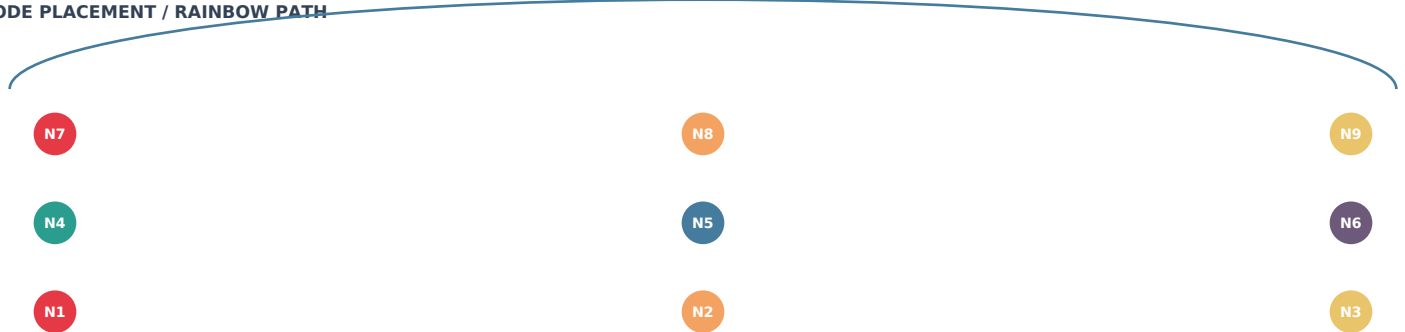
PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Mass_balance_EVE_screen_bala
reference "BP-ALG-021"
state R -> R1
node N1
representation JP(BP-ALG-021)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# F-022: r M = M initial + M inputs - M final - M outputs; F-023: M_screen_in = M captured + M passed + M retained + r scr
```


NODE PLACEMENT / RAINBOW PATH



Primary situational anchor: N1; U/D/C remain profile-specific.

R STATUS / OBSERVATION

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SOURCE RULE / INTENT

F-025: $F_z = qE_z + F_b - mg - D_z - F_{\text{contact}} - F_{\text{adhesion}}$. F-025 means Upward motion requires positive conservative lower bound.

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```

module MJ.Rainbow.Upward_force
reference "BP-ALG-023"
state R -> R1
node N1
representation JP(BP-ALG-023)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# F-025:  $F_z = qE_z + F_b - mg - D_z - F_{\text{contact}} - F_{\text{adhesion}}$ . F-025 means Upward motion requires positive conservative lo

```


NODE PLACEMENT / RAINBOW PATH

N7

N4

N1

N8

N5

N2

N9

N6

N3

Primary situational anchor: N7; U/D/C remain profile-specific.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

F-026: $p_P(x,y,z)=o_P+x*a_P+y*b_P+z*c_P$. F-026 means Normalized topology to profile physical coordinates.

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Coordinate_mapping
reference "BP-ALG-024"
state R -> R1
node N7
representation JP(BP-ALG-024)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# F-026:  $p_P(x,y,z)=o_P+x*a_P+y*b_P+z*c_P$ . F-026 means Normalized topology to profile physical coordinates.
```

NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MI permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

F-027: $N_U = \max_k \text{ceil}(E_k / ((1-h_k) * C_{Uk}))$. F-027 means Canonical pre-Pearl physical containment count; requires measured profile-specific capacity and headroom.

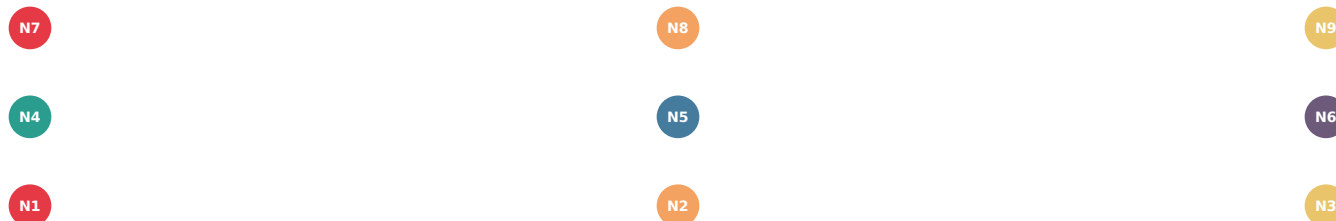
PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Sister_physical_umbrella_cou
reference "BP-ALG-025"
state R -> R1
node N1
representation JP(BP-ALG-025)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# F-027: N U = max k ceil(E k/((1-h k)*C Uk)). F-027 means Canonical pre-Pearl physical containment count; requires measur
```

NODE PLACEMENT / RAINBOW PATH



Primary situational anchor: N1; U/D/C remain profile-specific.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

F-028: $r_B = B_alloc - B_active - B_released - B_retained - B_exported - B_compacted$.
F-028 means Discrete memory reconciliation requires zero residual unless transformed.

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Byte_balance
reference "BP-ALG-026"
state R -> R1
node N1
representation JP(BP-ALG-026)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# F-028: r.B = B alloc-B active-B released-B retained-B exported-B compacted. F-028 means Discrete memory reconciliation r
```

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

F-029: $C_B = \int B_{\text{residual}}(t)dt$. F-029 means Time-weighted residual memory consequence.

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Residual_consequence
reference "BP-ALG-027"
state R -> R1
node N1
representation JP(BP-ALG-027)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# F-029:  $C_B = \int B_{\text{residual}}(t)dt$ . F-029 means Time-weighted residual memory consequence.
```

NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

F-030: $L_protected_H = O_near_H + R_emergency_H + R_tax_H + R_fees_H + U_cash_H$. F-030 means Liquidity first.

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Protected_liquidity
reference "BP-ALG-028"
state R -> R1
node N2
representation JP(BP-ALG-028)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# F-030: L_protected H = 0 near H+R emergency H+R tax H+R fees H+U cash H. F-030 means Liquidity first.
```

NODE PLACEMENT / RAINBOW PATH



Primary situational anchor: N1; U/D/C remain profile-specific.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

F-031: $S_investable_L = \max(0, L_available_L - L_protected_H)$. F-031 means Only surplus may enter risk analysis.

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```

module MJ.Rainbow.Investable_surplus
reference "BP-ALG-029"
state R -> R1
node N1
representation JP(BP-ALG-029)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# F-031: S investable L = max(0, L_available - L-protected H). F-031 means Only surplus may enter risk analysis.

```

Node Placement / Rainbow Path



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

F-032: A_risk_max = min(S_investable_L,L_risk,L_product,L_regulatory,L_custody,L_concentration). F-032 means Hard minimum across constraints.

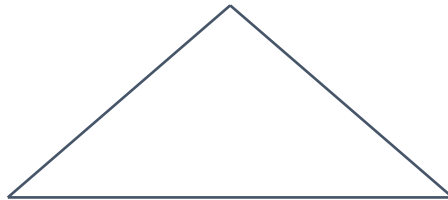
Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.Risk_capital_ceiling
reference "BP-ALG-030"
state R -> R1
node N1
representation JP(BP-ALG-030)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# F-032: A_risk_max = min(S_investable_L,L_risk,L_product,L_regulatory,L_custody,L_concentration). F-032 means Hard minimu
```

NODE PLACEMENT / RAINBOW PATH



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.



R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

F-033: $C_i = \text{abs}(V_i H)/V_{\text{portfolio}_L}$. F-033 means Asset concentration.

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

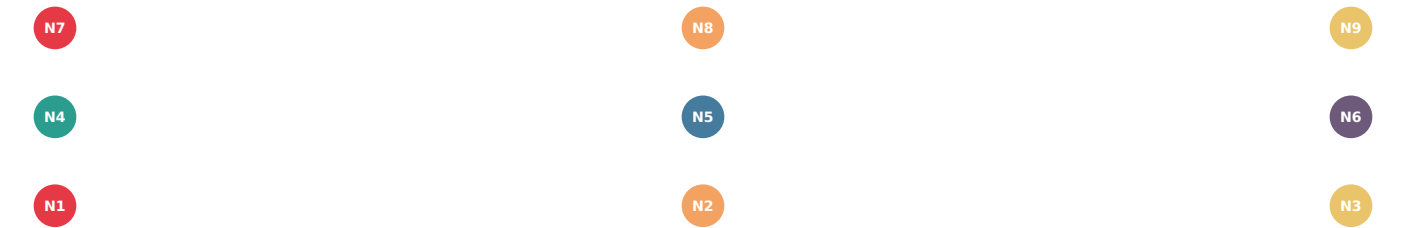
CODE / MATH / PROCESS REPRESENTATION

```

module MJ.Rainbow.Portfolio_concentration
reference "BP-ALG-031"
state R -> R1
node N1
representation JP(BP-ALG-031)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# F-033:  $C_i = \text{abs}(V_i H)/V_{\text{portfolio L}}$ . F-033 means Asset concentration.

```


NODE PLACEMENT / RAINBOW PATH



Primary situational anchor: N1; U/D/C remain profile-specific.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

F-035: $F_{capital_H} = fees + spread + slippage + tax + custody + compliance + latency$. F-035 means Typed transactional friction.

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Capital_friction
reference "BP-ALG-033"
state R -> R1
node N1
representation JP(BP-ALG-033)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# F-035: F capital H = fees+spread+slippage+tax+custody+compliance+latency. F-035 means Typed transactional friction.
```

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

F-036: O_L =
Return_L-F_capital_H-RiskPenalty_H-LiquidityPenalty_H-RegulatoryUncertainty_H.
F-036 means Conservative opportunity result.

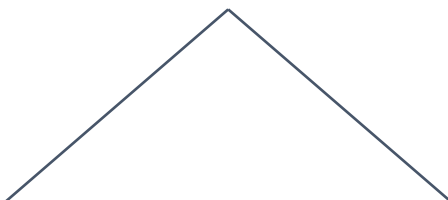
PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

module MJ.Rainbow.Opportunity_lower_bound
reference "BP-ALG-034"
state R -> R1
node N1
representation JP(BP-ALG-034)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
F-036: O_L = Return_L-F_capital_H-RiskPenalty_H-LiquidityPenalty_H-RegulatoryUncertainty_H. F-036 means Conservative opp

NODE PLACEMENT / RAINBOW PATH



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.



R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

F-038: $V_eligible_L = \max(0, V_verified_L - L_known_H - U_valuation_H)$. F-038 means Internal valuation lower bound.

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> IQ evidence.

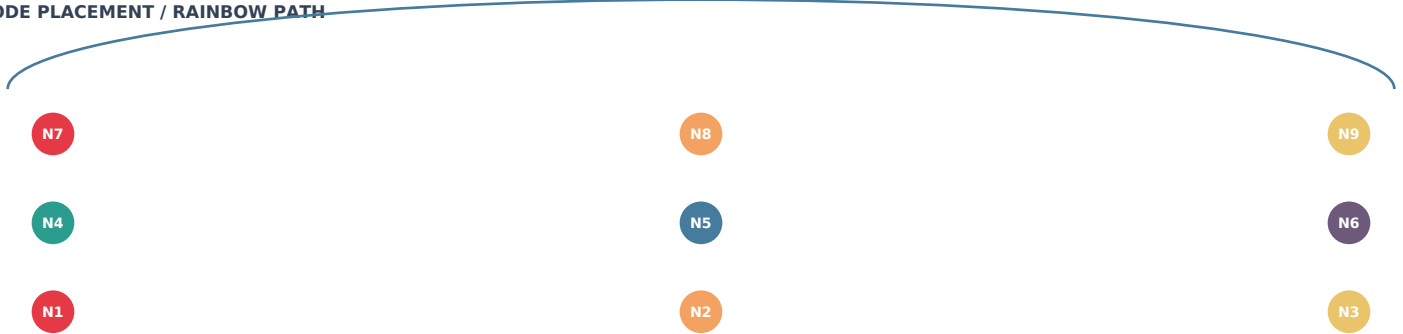
CODE / MATH / PROCESS REPRESENTATION

```

module MJ.Rainbow.SHIVAS_eligible_value
reference "BP-ALG-036"
state R -> R1
node N1
representation JP(BP-ALG-036)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# F-038: V_eligible L=max(0,V_verified L-L known H-U valuation H). F-038 means Internal valuation lower bound.

```


NODE PLACEMENT / RAINBOW PATH



Primary situational anchor: N1; U/D/C remain profile-specific.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

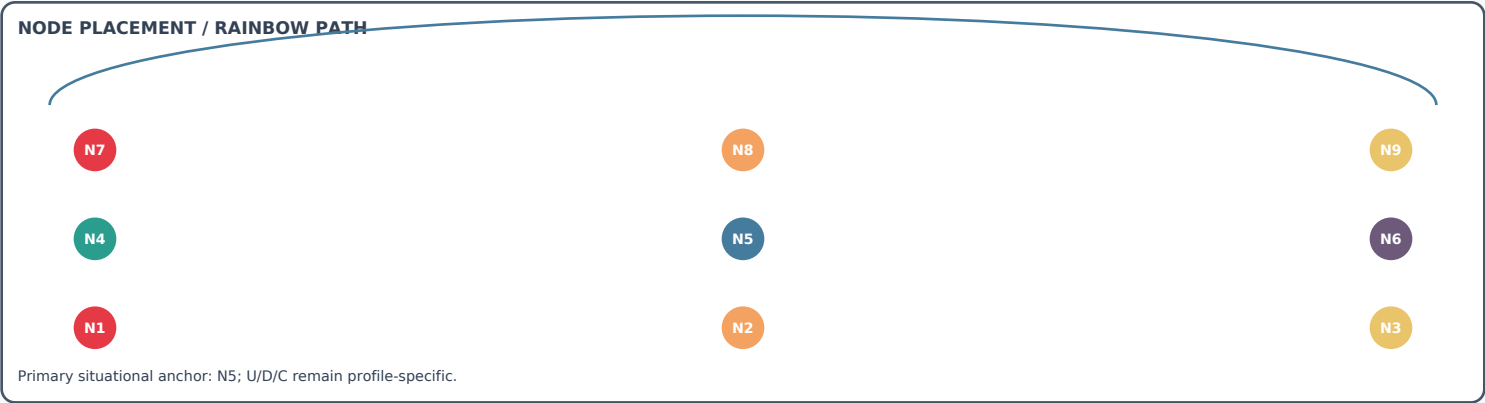
F-040: $x[t+1]=F(x[t],u[t],\theta,e[t])+w[t]$; $y[t]=H(x[t])+v[t]$. F-040 means General physics state and observation representation.

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.MK_state_model
reference "BP-ALG-038"
state R -> R1
node N1
representation JP(BP-ALG-038)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# F-040:  $x[t+1]=F(x[t],u[t],\theta,e[t])+w[t]$ ;  $y[t]=H(x[t])+v[t]$ . F-040 means General physics state and observation repre
```

R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	F-042: $r_q = q_{in} - q_{out} - \Delta q_{loss}$. F-042 means Pass only when $r_q \leq U_q$.

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Conservation_residual
reference "BP-ALG-040"
state R -> R1
node N5
representation JP(BP-ALG-040)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# F-042:  $r_q = q_{in} - q_{out} - \Delta q_{loss}$ . F-042 means Pass only when  $|r_q| \leq U_q$ .
```

NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

F-043: $V_P = (4/3) \cdot \pi \cdot a \cdot b \cdot c$. F-043 means Hypothetical pearl-shaped simulation geometry; no physical container or dimension claim.

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Pearl_simulation_ellipsoid_v
reference "BP-ALG-041"
state R -> R1
node N1
representation JP(BP-ALG-041)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# F-043: V P=(4/3)*pi*a*b*c. F-043 means Hypothetical pearl-shaped simulation geometry; no physical container or dimension
```

N7

N4

N1

N8

N5

N2

N9

N6

N3

Primary situational anchor: N1; U/D/C remain profile-specific.

R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	F-044: $A_P \sim 4 \pi ((a^p b^p + a^p c^p + b^p c^p) / 3)^{(1/p)}$, $p = 1.6075$. F-044 means Hypothetical simulation geometry approximation; no physical wall or surface claim.

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```

module MJ.Rainbow.Pearl_simulation_surface_are
reference "BP-ALG-042"
state R -> R1
node N1
representation JP(BP-ALG-042)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# F-044:  $A_P \sim 4 \pi ((a^p b^p + a^p c^p + b^p c^p) / 3)^{(1/p)}$ ,  $p = 1.6075$ . F-044 means Hypothetical simulation geometry approximati

```

Internal reference only. No physical validation, operation authority, product certification, external effect, IP approval, or other legal effect.

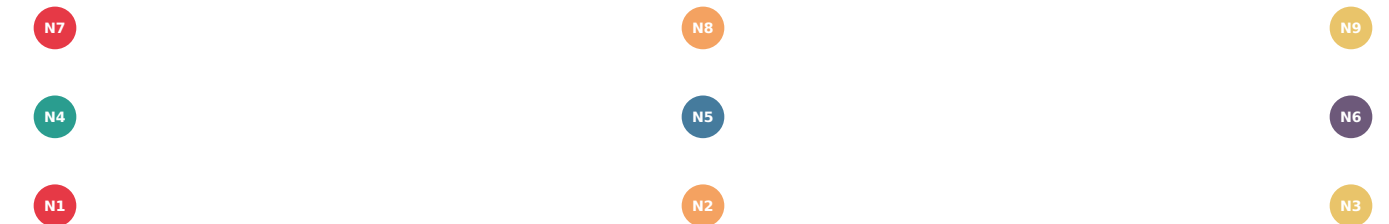
BP-ALG-042 | BP-ALG-042-RAINBOW-230K-PDF-MIRROR-FINAL | RW-BLUE-0042

MJos Predictive Model | First manifestation of the Bangel Language

MJ Physics Engineering | Owned and operated by Michael Bangel | Clearwater, Florida

RAINBOW | Original collection page 7526 | Terminology edition; source evidence remains historical

NODE PLACEMENT / RAINBOW PATH



Primary situational anchor: N1; U/D/C remain profile-specific.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

F-045: $\chi^2_P = A_P/V_P$. F-045 means Simulation comparison metric only; not physical breach or exposure evidence.

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Pearl_simulation_exposure_ra
reference "BP-ALG-043"
state R -> R1
node N1
representation JP(BP-ALG-043)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# F-045: chi P=A P/V P. F-045 means Simulation comparison metric only; not physical breach or exposure evidence.
```

Node Placement / Rainbow Path



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

F-046: $S_Pk = (1 - h_Pk) * C_Pk - L_Pk$. F-046 means Remaining typed simulation/information capacity after declared headroom.

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.Pearl_simulation_capacity_sl
reference "BP-ALG-044"
state R -> R1
node N9
representation JP(BP-ALG-044)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# F-046:  $S\_Pk = (1 - h\_Pk) * C\_Pk - L\_Pk$ . F-046 means Remaining typed simulation/information capacity after declared headroom.
```



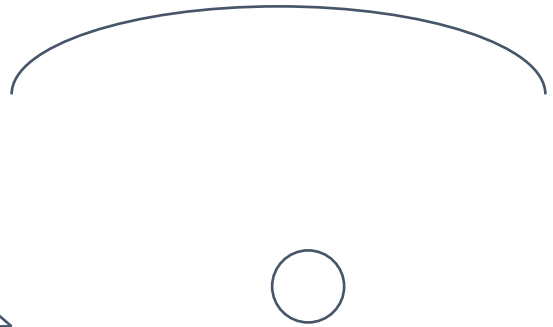
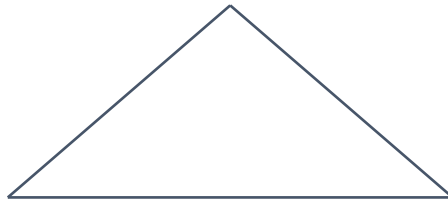

R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	F-048: $N_P = \max_k \text{ceil}(E_k / ((1 - h_{Pk}) * C_{Pk}))$. F-048 means Number of hypothetical simulation objects needed for declared information/resource dimensions.

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Pearl_simulation_object_coun
reference "BP-ALG-046"
state R -> R1
node N1
representation JP(BP-ALG-046)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# F-048:  $N_P = \max_k \text{ceil}(E_k / ((1 - h_{Pk}) * C_{Pk}))$ . F-048 means Number of hypothetical simulation objects needed for declared in
```

NODE PLACEMENT / RAINBOW PATH



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

F-049:
 $r_{Pk} = q_{in-q_captured-q_transferred-q_retained-q_escaped-Deltaq_stored}$.
 F-049 means Simulation/accounting conservation across retained, transferred, escaped-observation, and stored information.

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Pearl_simulation_accounting_
reference "BP-ALG-047"
state R -> R1
node N1
representation JP(BP-ALG-047)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# F-049: r_Pk-q_in-q_captured-q_transferred-q_retained-q_escaped-Deltaq_stored. F-049 means Simulation/accounting conserva
```


NODE PLACEMENT / RAINBOW PATH



Primary situational anchor: N4; U/D/C remain profile-specific.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

F-050: $T_{ij,k} = \min([S_{jk}]_+ + [Q_{ik} - Q_{reserve_ik}]_+ + C_{route_k})$. F-050 means Simulated transfer opportunity bounded by declared logical capacities; no physical transfer.

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Pearl_simulated_transfer_opp
reference "BP-ALG-048"
state R -> R1
node N4
representation JP(BP-ALG-048)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# F-050:  $T_{ij,k} = \min([S_{jk}] + [Q_{ik} - Q_{reserve\_ik}] + C_{route\ k})$ . F-050 means Simulated transfer opportunity bounded by decla
```

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

Source Rule / Intent

F-051: G_P=[G_mass,G_energy,G_bytes,G_time,G_capital]. F-051 means Hypothetical opportunity vector; creates no physical or capital value.

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

module MJ.Rainbow.Pearl_simulated_regeneration
reference "BP-ALG-049"
state R -> R1
node N1
representation JP(BP-ALG-049)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
F-051: G_P=[G_mass,G_energy,G_bytes,G_time,G_capital]. F-051 means Hypothetical opportunity vector; creates no physical



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	F-052: $\lambda_{ac}=c_{medium}/f_{control}$. F-052 means Acoustic simulation variable under declared medium assumptions; no cohesion claim.

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Pearl_acoustic_simulation_wa
reference "BP-ALG-050"
state R -> R1
node N1
representation JP(BP-ALG-050)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# F-052:  $\lambda_{ac}=c_{medium}/f_{control}$ . F-052 means Acoustic simulation variable under declared medium assumptions; no cohe
```

NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

F-053: $I_{ac} = p_{rms}^2 / (\rho_{medium} * c_{medium})$. F-053 means Reference simulation intensity only; no physical actuation claim.

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

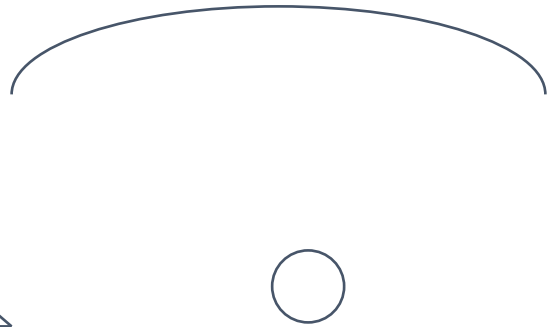
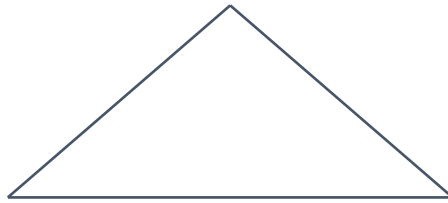
CODE / MATH / PROCESS REPRESENTATION

```

module MJ.Rainbow.Pearl_acoustic_simulation_in
reference "BP-ALG-051"
state R -> R1
node N1
representation JP(BP-ALG-051)
physics MK(classify, units, boundary, uncertainty)
verify JO(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# F-053:  $I_{ac} = p_{rms}^2 / (\rho_{medium} * c_{medium})$ . F-053 means Reference simulation intensity only; no physical actuation claim.

```

NODE PLACEMENT / RAINBOW PATH



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

F-054: $E_{ac} = \int (I_{ac} \cdot A_{effective}) dt$. F-054 means Hypothetical energy accounting for a future separately permitted experiment.

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Pearl_acoustic_simulation_en
reference "BP-ALG-052"
state R -> R1
node N8
representation JP(BP-ALG-052)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# F-054: E ac-integral(I ac*A effective)dt. F-054 means Hypothetical energy accounting for a future separately permitted e
```

NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MI permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

F-055: $f_sample \geq 2 * \gamma * f_control$ AND $f_control$ in calibrated_band AND $SNR_f \geq SNR_min$. F-055 means Simulation input must be measurable to be accounted for; observability is not actuation.

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Pearl_acoustic_simulation_ob
reference "BP-ALG-053"
state R -> R1
node N1
representation JP(BP-ALG-053)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# F-055: f_sample>=2*gamma*f_control AND f_control in calibrated band AND SNR f>=SNR min. F-055 means Simulation input mus
```

NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

F-056: $SNR_f = P_{\text{signal}}(f) / P_{\text{noise}}(f)$. F-056 means Simulation signal-to-noise ratio; advisory and non-authorizing.

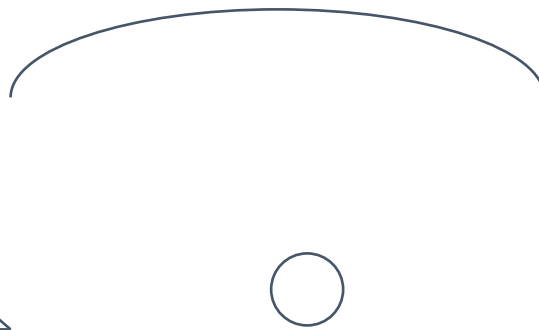
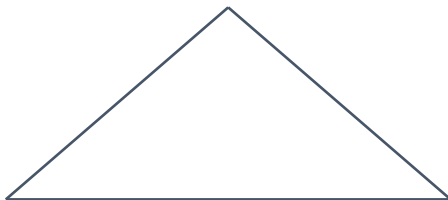
PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Pearl_acoustic_simulation_si
reference "BP-ALG-054"
state R -> R1
node N1
representation JP(BP-ALG-054)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# F-056: SNR f=P signal(f)/P noise(f). F-056 means Simulation signal-to-noise ratio; advisory and non-authorizing.
```

NODE PLACEMENT / RAINBOW PATH



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

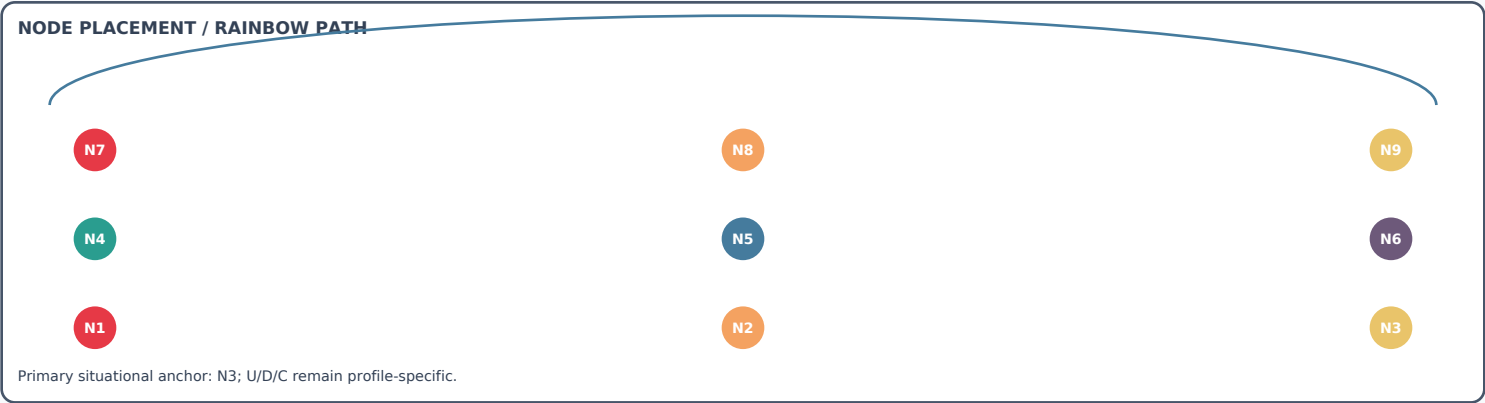
F-057: $H_P(f) = Y_P(f) / U_P(f)$. F-057 means Hypothetical or measured-later response mapping; no physical Pearl article exists.

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Pearl_acoustic_simulation_tr
reference "BP-ALG-055"
state R -> R1
node N1
representation JP(BP-ALG-055)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# F-057:  $H \cdot P(f) = Y \cdot P(f) / U \cdot P(f)$ . F-057 means Hypothetical or measured-later response mapping; no physical Pearl article exists
```

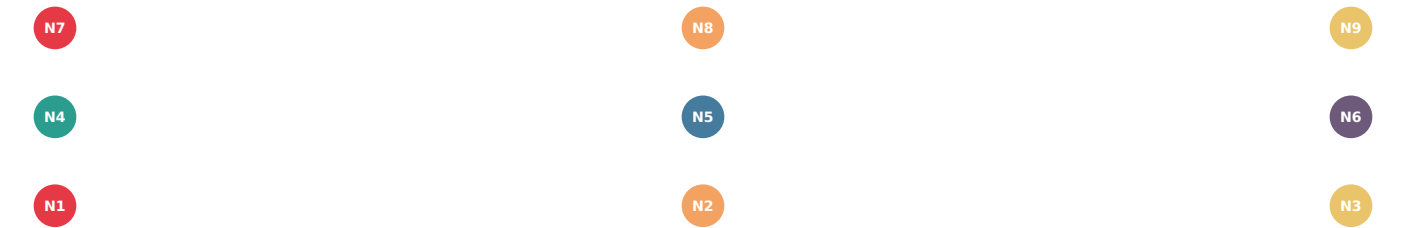
R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	F-058: $f^* = \operatorname{argmin}_{\{f \text{ in } F_{\text{safe}}\}} (J_{\text{breach}} + \lambda E_{\text{ac}} + \lambda T_{\text{transfer}})$; F-059: $f_{\text{next}} = \operatorname{clip}((2/3)f + (1/3)f_{\text{target}}, f_{\text{df_max}}, f_{\text{df_max}}, f_{\text{min}}, f_{\text{max}})$. F-058 means Simulation candidate only; no physical control setpoint. F-059 means One-third-damped simulation update only.

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Pearl_acoustic_simulation_se
reference "BP-ALG-056"
state R -> R1
node N3
representation JP(BP-ALG-056)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# F-058:  $f^* = \operatorname{argmin}_{\{f \text{ in } F_{\text{safe}}\}} (J_{\text{breach}} + \lambda E_{\text{ac}} + \lambda T_{\text{transfer}})$ ; F-059:  $f_{\text{next}} = \operatorname{clip}((2/3)f + (1/3)f_{\text{target}}, f_{\text{df}}$ 
```

NODE PLACEMENT / RAINBOW PATH



Primary situational anchor: N1; U/D/C remain profile-specific.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

F-060: $r_registry = N_allocated + N_received - N_transferred - N_closed - N_active$.
F-060 means Registry count reconciliation for simulation records, not physical containers.

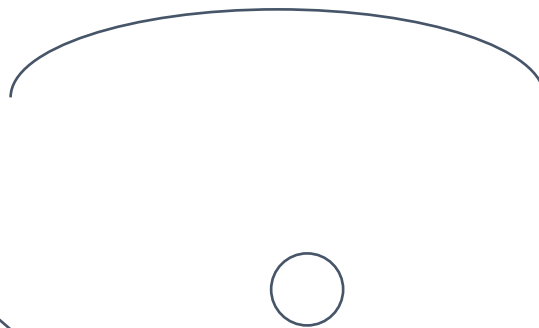
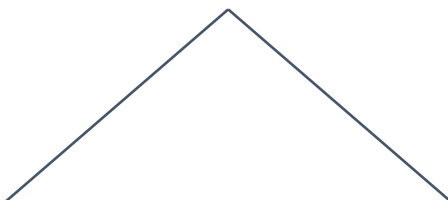
PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Pearl_simulation_registry_re
reference "BP-ALG-057"
state R -> R1
node N1
representation JP(BP-ALG-057)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# F-060: r_registry=N_allocated+N_received-N_transferred-N_closed-N_active. F-060 means Registry count reconciliation for
```

NODE PLACEMENT / RAINBOW PATH



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

F-061:
C_ij=<value,unit,uncertainty,formula,revision,lineage,authority,evidence>.
F-061 means Every cell is a governed measurement object, not an untyped mutable value.

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Bangel_Sheet_cell_state
reference "BP-ALG-058"
state R -> R1
node N1
representation JP(BP-ALG-058)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# F-061: C ij<=value,unit,uncertainty,formula,revision,lineage,authority,evidence>. F-061 means Every cell is a governed m
```

Node Placement / Rainbow Path



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

F-062: A(U)=Reachable_G(U). F-062 means Only cells reachable from changed cells are eligible for incremental recomputation.

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.Affected_dependency_closure
reference "BP-ALG-059"
state R -> R1
node N1
representation JP(BP-ALG-059)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# F-062: A(U)=Reachable_G(U). F-062 means Only cells reachable from changed cells are eligible for incremental recomputati
```


Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

F-068: $C_{data}=B_{store}*c_{store}+B_{transfer}*c_{transfer}+t_{cpu}*c_{cpu}$. F-068 means Storage, transfer, and compute cost remain separately evidenced before aggregation.

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Spreadsheet_data_cost
reference "BP-ALG-065"
state R -> R1
node N1
representation JP(BP-ALG-065)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# F-068:  $C_{data}=B_{store}*c_{store}+B_{transfer}*c_{transfer}+t_{cpu}*c_{cpu}$ . F-068 means Storage, transfer, and compute cost remain
```


NODE PLACEMENT / RAINBOW PATH



Primary situational anchor: N1; U/D/C remain profile-specific.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

F-072: $\text{spectral_radius}(J_F) < 1$. F-072 means Declared iterative formulas require an evidenced locally stable fixed-point regime.

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```

module MJ.Rainbow.Iterative_recalculation_stab
reference "BP-ALG-069"
state R -> R1
node N1
representation JP(BP-ALG-069)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# F-072: spectral_radius(J_F)<1. F-072 means Declared iterative formulas require an evidenced locally stable fixed-point r

```

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

Source Rule / Intent

F-073: base_revision=head_revision OR valid_merge_receipt. F-073 means Stale writes cannot silently overwrite a newer revision.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

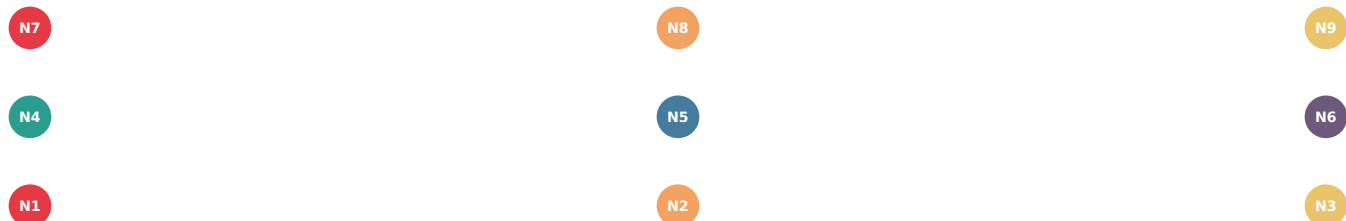
Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

module MJ.Rainbow.Revision_conflict_gate
reference "BP-ALG-070"
state R -> R1
node N1
representation JP(BP-ALG-070)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
F-073: base_revision=head_revision OR valid_merge_receipt. F-073 means Stale writes cannot silently overwrite a newer re

NODE PLACEMENT / RAINBOW PATH



Primary situational anchor: N1; U/D/C remain profile-specific.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

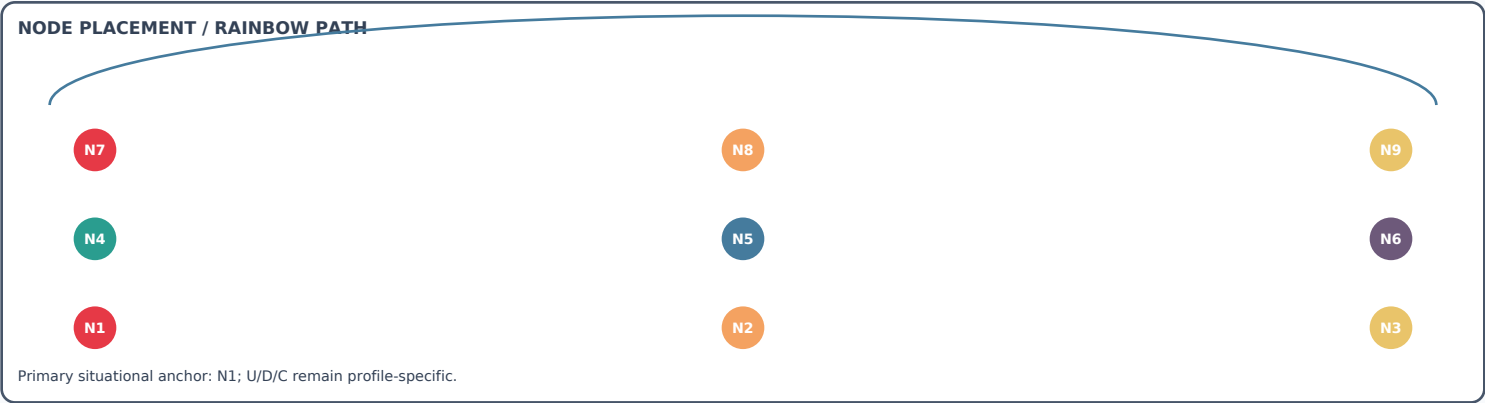
F-074: Age=now-observed_at. F-074 means Age of a source observation or derived cell.

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Freshness_age
reference "BP-ALG-071"
state R -> R1
node N1
representation JP(BP-ALG-071)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# F-074: Age=now-observed at. F-074 means Age of a source observation or derived cell.
```

R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	F-075: Age<=freshness_limit. F-075 means A cell is current only inside its declared freshness policy.

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Staleness_gate
reference "BP-ALG-072"
state R -> R1
node N1
representation JP(BP-ALG-072)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# F-075: Age<=freshness_limit. F-075 means A cell is current only inside its declared freshness policy.
```

NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

F-076: $r_{xy} = \text{Cov}(X,Y) / (\sigma_x \sigma_y)$. F-076 means Descriptive correlation between data characteristics and performance; not a causal claim.

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```

module MJ.Rainbow.Data_performance_correlation
reference "BP-ALG-073"
state R -> R1
node N1
representation JP(BP-ALG-073)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# F-076:  $r_{xy} = \text{Cov}(X,Y) / (\sigma_x \sigma_y)$ . F-076 means Descriptive correlation between data characteristics and performance
    
```


NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

F-080: $\lambda_{total} \leq \rho_{max} \sum p(\mu_p)$ AND $memory_required \leq memory_available$ AND $cross_partition_edges \leq cut_limit$. F-080 means Admission requires throughput, memory, and partition-boundary capacity to pass together.

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Spreadsheet_capacity_gate
reference "BP-ALG-077"
state R -> R1
node N1
representation JP(BP-ALG-077)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# F-080:  $\lambda_{total} \leq \rho_{max} \sum p(\mu_p)$  AND  $memory\_required \leq memory\_available$  AND  $cross\_partition\_edges \leq cut\_limit$ . F-0
```


Node Placement / Rainbow Path



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

F-084: $D_R = V_{24} / (W_R * H_R)$. F-084 means Reference depth adapts to measured height and declared width.

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.Rectangle_depth
reference "BP-ALG-081"
state R -> R1
node N1
representation JP(BP-ALG-081)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# F-084:  $D_R = V_{24} / (W_R * H_R)$ . F-084 means Reference depth adapts to measured height and declared width.
```

NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

F-085: $H_C=k_H H_R$; $k_H, std=2$; F-086: $W_T=k_W W_B$; $k_W, std=2$. F-085 means Standard cone height is twice rectangle height. F-086 means Standard top characteristic width is twice bottom width.

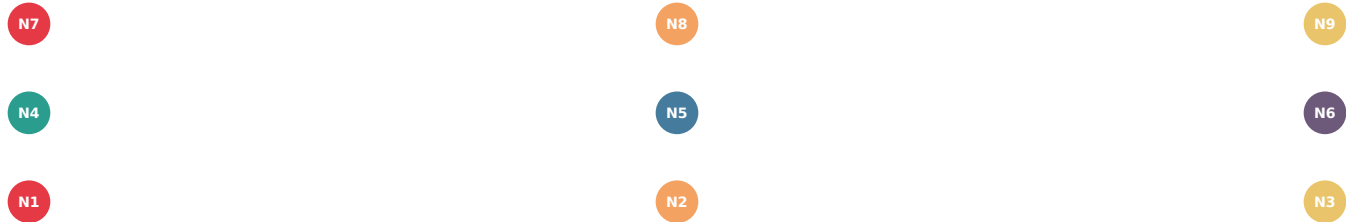
PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Cone_height_ratio_Cone_top_w
reference "BP-ALG-082"
state R -> R1
node N1
representation JP(BP-ALG-082)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# F-085:  $H_C=k_H H_R$ ;  $k_H, std=2$ ; F-086:  $W_T=k_W W_B$ ;  $k_W, std=2$ . F-085 means Standard cone height is twice rectangle height
```


IDE PLACEMENT / RAINBOW PATH



Primary situational anchor: N1; U/D/C remain profile-specific.

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

F-089: $V_C = H_C/3*(A_B + \sqrt{A_B*A_T} + A_T)$. F-089 means Full conical expansion volume.

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

```
module MJ.Rainbow.Full_conical_frustum_volume
reference "BP-ALG-085"
state R -> R1
node N1
representation JP(BP-ALG-085)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# F-089:  $V = \frac{C}{3} \pi (A^2 B + \sqrt{A B^3 A} + A^3)$ . F-089 means Full conical expansion volume.
```

```

graph LR
    R((R)) --> R1((R1))
    R1 --> N1((N1))
    N1 --> U((U))
    U --> D((D))
    D --> C((C))
    C --> OUT((OUT))
  
```

Hypothetical until typed evidence, profile geometry, and MI permit support an effect.

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

F-090: $z_P0 = H_R + H_C$; $standard = 3H_R$. F-090 means Pearl simulation begins at the top-of-cone information plane.

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> IQ evidence.

```
module MJ.Rainbow.Pearl_cone_top_anchor
reference "BP-ALG-086"
state R -> R1
node N1
representation JP(BP-ALG-086)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# F-090: z P0=H R+H C: standard=3H R. F-090 means Pearl simulation begins at the top-of-cone information plane.
```


NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MI permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

F-093: $h_{\text{hat}} = \text{clip}(h + v \cdot dt + 0.5 \cdot a \cdot dt^2, 0, H_C)$. F-093 means Bounded prediction of observed gas-front height.

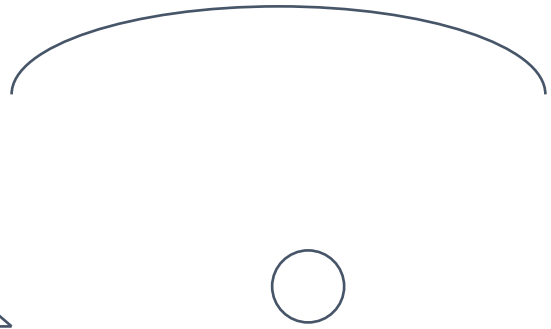
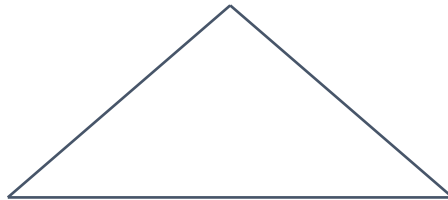
PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Observed_gas_height_predicto
reference "BP-ALG-089"
state R -> R1
node N1
representation JP(BP-ALG-089)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# F-093:  $\hat{h} = \text{clip}(h + v \cdot dt + 0.5 \cdot a \cdot dt^2, 0, H_C)$ . F-093 means Bounded prediction of observed gas-front height.
```

NODE PLACEMENT / RAINBOW PATH



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

F-094: $m_{eff} \cdot a_z = F_b + F_p + F_{act} - F_d - F_{wall} - F_{mix}$. F-094 means Geometry alone does not guarantee acceleration.

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Gas_net_force_balance
reference "BP-ALG-090"
state R -> R1
node N1
representation JP(BP-ALG-090)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# F-094: m eff*a z=F b+F p+F act-F d-F wall-F mix. F-094 means Geometry alone does not guarantee acceleration.
```

NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

F-095: $F_b = (\rho_{\text{ambient}} - \rho_g) * g * V_g$; F-096: $F_d = 0.5 * C_d * \rho_{\text{ambient}} * A_{\text{projected}} * u^2$. F-095 means Reference buoyancy term under declared environment. F-096 means Reference drag term under declared coefficient and flow.

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Buoyancy_force_Drag_force
reference "BP-ALG-091"
state R -> R1
node N1
representation JP(BP-ALG-091)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# F-095:  $F_b = (\rho_{\text{ambient}} - \rho_g) * g * V_g$ ; F-096:  $F_d = 0.5 * C_d * \rho_{\text{ambient}} * A_{\text{projected}} * u^2 * \text{abs}(u)$ . F-095 means Reference buoyanc
```

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

Source Rule / Intent

F-097: $Q=A(z)*u(z)$. F-097 means For fixed flow, increasing area does not itself accelerate the gas.

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Flow_continuity
reference "BP-ALG-092"
state R -> R1
node N3
representation JP(BP-ALG-092)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# F-097:  $Q=A(z)*u(z)$ . F-097 means For fixed flow, increasing area does not itself accelerate the gas.
```

Node Placement / Rainbow Path

Rectangle

Cone

Sister umbrella

EVE/lake

next-cycle re-entry



R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

F-098: $C_{res,k} = \gamma_k \cdot C_{rect,k}$; $0 \leq \gamma_k < 1$. F-098 means Residual reservoir remains smaller than rectangle reference capacity.

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Residual_reservoir_capacity
reference "BP-ALG-093"
state R -> R1
node N1
representation JP(BP-ALG-093)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# F-098:  $C_{res,k} = \gamma_k \cdot C_{rect,k}$ ;  $0 \leq \gamma_k < 1$ . F-098 means Residual reservoir remains smaller than rectangle reference c
```

NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MI permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

F-099: $q_{\text{cone}} = q_{\text{down}} + q_{\text{EVE}} + q_{\text{res}} + q_{\text{escape}} + r$. F-099 means Downward redistribution, EVE evidence, reservoir admission, and escape are separately accounted.

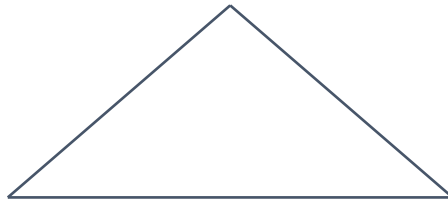
PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Umbrella_EVE_reservoir_balan
reference "BP-ALG-094"
state R -> R1
node N1
representation JP(BP-ALG-094)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# F-099: q_cone=q_down+q_EVE+q_res+q_escape+r. F-099 means Downward redistribution, EVE evidence, reservoir admission, and
```


NODE PLACEMENT / RAINBOW PATH



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

F-102: $R_{P,sim} = R_{top} + c_P$; $c_P \geq 0$. F-102 means Nonphysical reference circle plus declared clearance.

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Pearl_simulation_exclusion_r
reference "BP-ALG-097"
state R -> R1
node N1
representation JP(BP-ALG-097)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# F-102: R P, sim=R top+c P; c P>=0. F-102 means Nonphysical reference circle plus declared clearance.
```




R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	F-107: $V_L, req=T_hold * \max(0, Q_{out}, H-Q_{return}, L) + V_{residual}, H$. F-107 means Conservative buffer capacity from inflow-return mismatch and residual.

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Required_buffer_volume
reference "BP-ALG-102"
state R -> R1
node N1
representation JP(BP-ALG-102)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# F-107:  $V_L, req=T\_hold * \max(0, Q_{out}, H-Q_{return}, L) + V_{residual}, H$ . F-107 means Conservative buffer capacity from inflow-retur
```

NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

F-108: $A_{out} \geq Q_{design}/u_{out,max}$. F-108 means Area sizing from conservative design flow and allowable velocity.

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Outlet_area_lower_bound
reference "BP-ALG-103"
state R -> R1
node N1
representation JP(BP-ALG-103)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# F-108:  $A_{out} \geq Q_{design}/u_{out,max}$ . F-108 means Area sizing from conservative design flow and allowable velocity.
```


NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

F-112: $Fr=U/\sqrt{gL}$. F-112 means Flow-regime reference; $Fr<1$ is a conditional subcritical target.

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Froude_reference
reference "BP-ALG-107"
state R -> R1
node N1
representation JP(BP-ALG-107)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# F-112:  $Fr=U/\sqrt{gL}$ . F-112 means Flow-regime reference;  $Fr<1$  is a conditional subcritical target.
```




R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	F-114: $u_r = -U \sin(\beta_{in})$; $u_{\theta} = \sigma U \cos(\beta_{in})$. F-114 means Small inward angle plus tangential component; no vortex proof.

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Inward_tangential_reentry_co
reference "BP-ALG-109"
state R -> R1
node N1
representation JP(BP-ALG-109)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# F-114:  $u_r = -U \sin(\beta_{in})$ ;  $u_{\theta} = \sigma U \cos(\beta_{in})$ . F-114 means Small inward angle plus tangential component; no v
```


NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

F-116: Q_return=A_in*u_n. F-116 means Re-entry flow through the circular port.

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Return_continuity
reference "BP-ALG-111"
state R -> R1
node N1
representation JP(BP-ALG-111)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# F-116: Q_return=A_in*u_n. F-116 means Re-entry flow through the circular port.
```


NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

F-117: $v_{rel}=v_B-v_A-\Omega_A \times r$. F-117 means Coordinate-frame-relative motion; perspective does not create energy.

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```

module MJ.Rainbow.Relative_frame_velocity
reference "BP-ALG-112"
state R -> R1
node N5
representation JP(BP-ALG-112)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# F-117:  $v_{rel}=v_B-v_A-\Omega_A \times r$ . F-117 means Coordinate-frame-relative motion; perspective does not create energy.
    
```



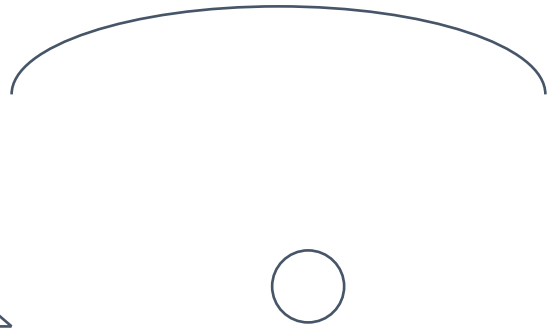
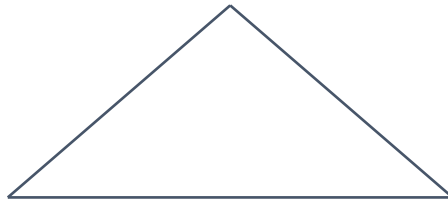

R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	F-122: cycle_reentry=cycle_exit+1. F-122 means Prohibits same-cycle feedback and creates a new receipt chain.

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Re_entry_processing_cycle
reference "BP-ALG-117"
state R -> R1
node N1
representation JP(BP-ALG-117)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# F-122: cycle_reentry=cycle_exit+1. F-122 means Prohibits same-cycle feedback and creates a new receipt chain.
```

NODE PLACEMENT / RAINBOW PATH



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

F-123: $r_{Pi} = x_{B-T_A_to_B} \cdot x_A$. F-123 means Measures disagreement after transforming observations between reference frames.

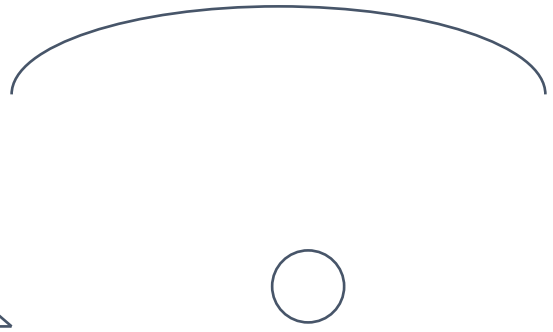
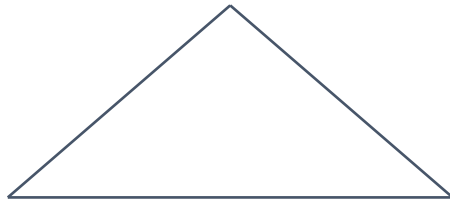
PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Perspective_transform_residu
reference "BP-ALG-118"
state R -> R1
node N1
representation JP(BP-ALG-118)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# F-123: r_Pi=x_B-T_A to B*x_A. F-123 means Measures disagreement after transforming observations between reference frames
```

NODE PLACEMENT / RAINBOW PATH



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

F-124: $E_{diss} = \int (\Delta p(t) * Q(t) dt)$. F-124 means Stores measured physical dissipation only when pressure and flow are evidenced.

PATH OF EXPRESSION

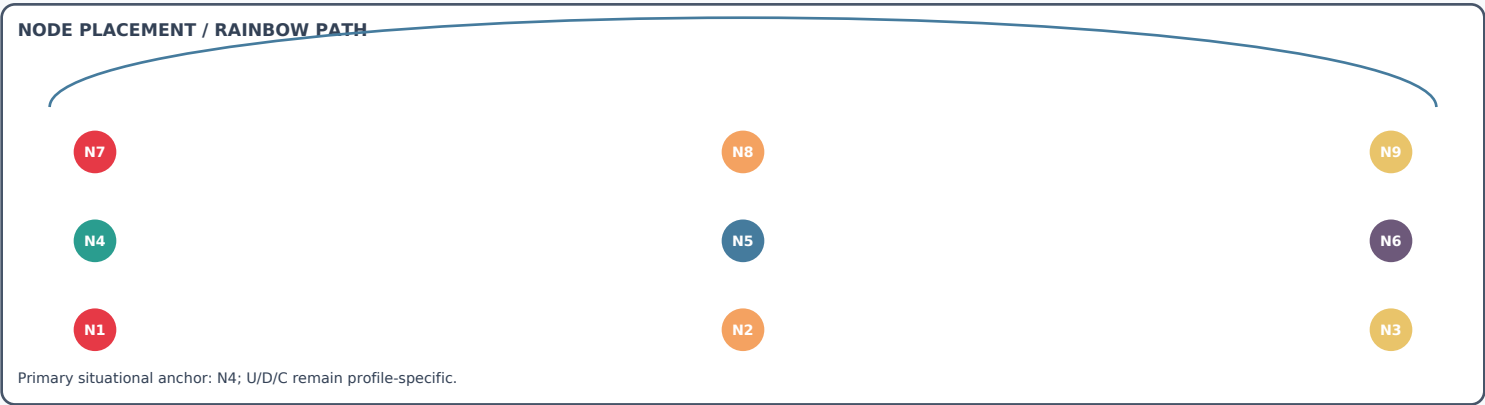
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```

module MJ.Rainbow.Physical_pressure_flow_dissi
reference "BP-ALG-119"
state R -> R1
node N1
representation JP(BP-ALG-119)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# F-124:  $E_{diss} = \int (\Delta p(t) * Q(t) dt)$ . F-124 means Stores measured physical dissipation only when pressure and flow are e

```

R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	F-125: C_info=int(B_residual(t)dt). F-125 means Stores unresolved information or memory cost without treating it as energy.

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Information_friction
reference "BP-ALG-120"
state R -> R1
node N4
representation JP(BP-ALG-120)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# F-125: C_info=int(B_residual(t)dt). F-125 means Stores unresolved information or memory cost without treating it as ener
```

NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

F-126: $\omega_{\text{tilde}} = (2/3) \cdot \omega + (1/3) \cdot \omega_{\text{star}}$. F-126 means Damps the desired rotational-wave setpoint.

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Rotational_setpoint_damping
reference "BP-ALG-121"
state R -> R1
node N1
representation JP(BP-ALG-121)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# F-126:  $\omega_{\text{tilde}} = (2/3) \cdot \omega + (1/3) \cdot \omega_{\text{star}}$ . F-126 means Damps the desired rotational-wave setpoint.
```

NODE PLACEMENT / RAINBOW PATH

N7

N4

N1

N8

N5

N2

N9

N6

N3

Primary situational anchor: N1; U/D/C remain profile-specific.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

F-127: $|\omega_{\text{next}} - \omega| \leq 0.1 * \omega_{\text{scale}}$. F-127 means Limits one-step rotational changes.

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Rotational_step_cap
reference "BP-ALG-122"
state R -> R1
node N1
representation JP(BP-ALG-122)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# F-127:  $|\omega_{\text{next}} - \omega| \leq 0.1 * \omega_{\text{scale}}$ . F-127 means Limits one-step rotational changes.
```

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

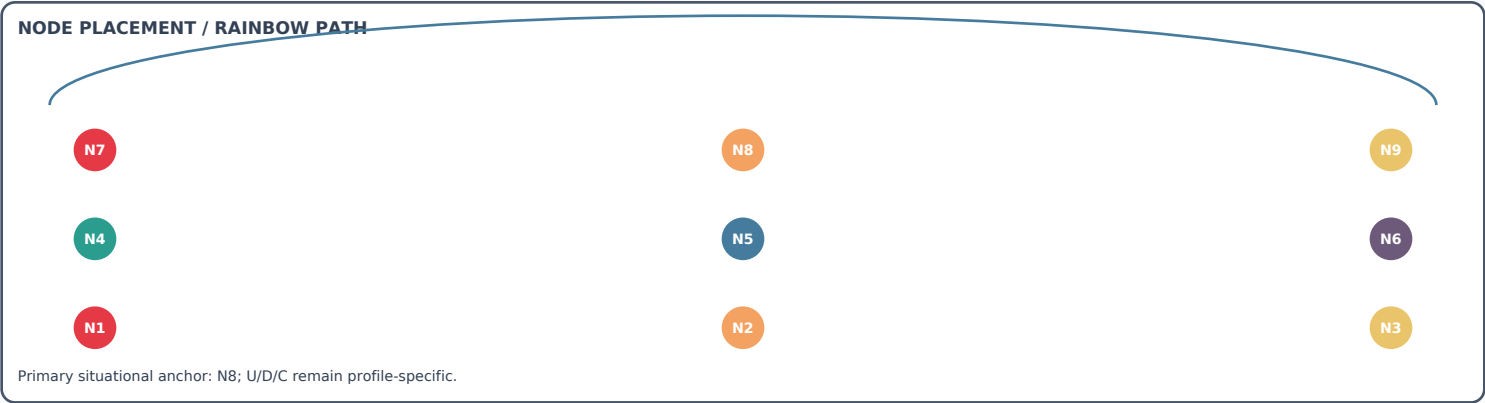
F-128: q_exit=q_lake_in+q_EVE+q_escape+r_o. F-128 means Separates lake admission, EVE observation, escape, and residual.

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

module MJ.Rainbow.Outlet_transfer_conservation
reference "BP-ALG-123"
state R -> R1
node N1
representation JP(BP-ALG-123)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
F-128: q_exit=q_lake_in+q_EVE+q_escape+r_o. F-128 means Separates lake admission, EVE observation, escape, and residual.



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	F-129: Delta_x=[Delta_m,Delta_W,Delta_V,Delta_rho,Delta_T,Delta_p,Delta_h]. F-129 means Declares the observed changes that trigger recalculation before re-entry.

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Re_entry_recalculation_vecto
reference "BP-ALG-124"
state R -> R1
node N8
representation JP(BP-ALG-124)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# F-129: Delta_x=[Delta_m,Delta_W,Delta_V,Delta_rho,Delta_T,Delta_p,Delta_h]. F-129 means Declares the observed changes th
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	F-130: Admit_re=types&units&new_cycle&capacity&wave&MK&JO&Angels&M3&MJ. F-130 means Requires complete physics, evidence, safety, routing, and authority before physical re-entry.

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Re_entry_admissibility_predi
reference "BP-ALG-125"
state R -> R1
node N1
representation JP(BP-ALG-125)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# F-130: Admit_re=types&units&new_cycle&capacity&wave&MK&JO&Angels&M3&MJ. F-130 means Requires complete physics, evidence,
```


Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

Source Rule / Intent

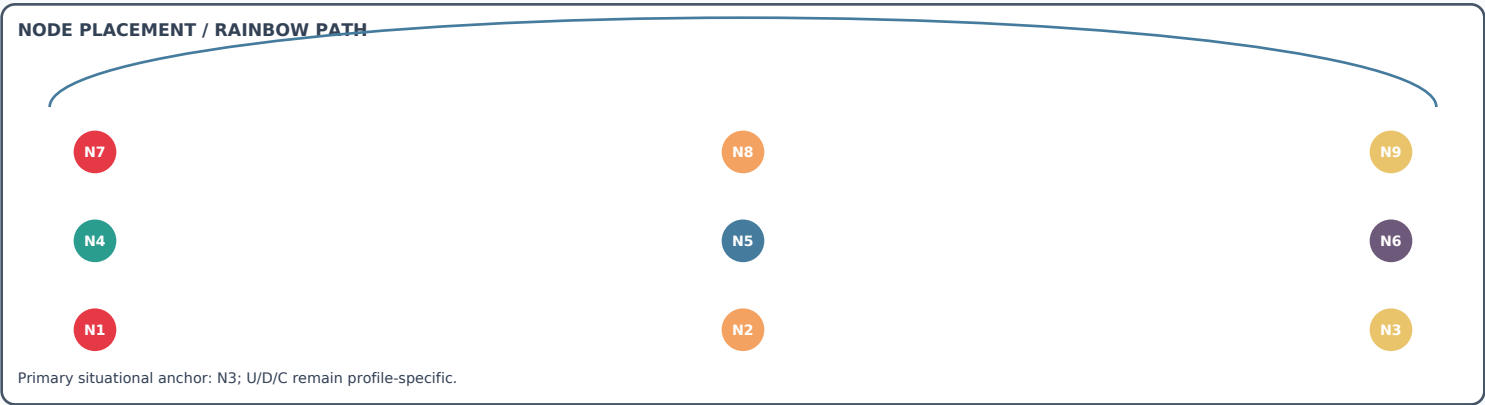
F-132: abs(wrap(alpha_out-alpha_gap)) <= Delta_alpha_gap/2. F-132 means Outlet direction remains within the declared outward-facing gap.

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Outward_angular_gap_predicat
reference "BP-ALG-127"
state R -> R1
node N1
representation JP(BP-ALG-127)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# F-132: abs(wrap(alpha_out-alpha_gap)) <= Delta_alpha_gap/2. F-132 means Outlet direction remains within the declared out
```

R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	F-133: $\Delta p_{\text{available}} = p_{\text{containment}} - p_{\text{lake}} + \rho \cdot g \cdot (z_{\text{out}} - z_{\text{lake}})$. F-133 means Pressure and elevation state available to drive a reference outlet flow.

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Available_outlet_pressure
reference "BP-ALG-128"
state R -> R1
node N3
representation JP(BP-ALG-128)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# F-133:  $\Delta p_{\text{available}} = p_{\text{containment}} - p_{\text{lake}} + \rho \cdot g \cdot (z_{\text{out}} - z_{\text{lake}})$ . F-133 means Pressure and elevation state available t
```

NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

F-134: $\Delta p_{margin} = \Delta p_{available} - \Delta p_{loss} - U_{\Delta p}$. F-134 means Conservative pressure margin after losses and uncertainty.

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Outlet_pressure_margin
reference "BP-ALG-129"
state R -> R1
node N1
representation JP(BP-ALG-129)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# F-134:  $\Delta p_{margin} = \Delta p_{available} - \Delta p_{loss} - U_{\Delta p}$ . F-134 means Conservative pressure margin after losses an
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	F-135: $\alpha_{\min} = \text{atan}(\max(0, \Delta p_{\text{loss}} + U_{\Delta p} (p_{\text{containment}} - p_{\text{lake}})) / (\rho \cdot g \cdot L_{\text{path}}))$ F-136: $\alpha_{\text{selected}} = \alpha_{\min} + \Delta \alpha$; $\Delta \alpha > 0$. F-135 means Minimum modeled grade needed to overcome pressure deficit under declared assumptions. F-136 means Slight positive increase above the modeled minimum; no universal value is asserted.

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Minimum_outlet_grade_Selecte
reference "BP-ALG-130"
state R -> R1
node N1
representation JP(BP-ALG-130)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# F-135:  $\alpha_{\min} = \text{atan}(\max(0, \Delta p_{\text{loss}} + U_{\Delta p} (p_{\text{containment}} - p_{\text{lake}})) / (\rho \cdot g \cdot L_{\text{path}}))$ ; F-136:  $\alpha_{\text{selected}} = \alpha_{\min} + \Delta \alpha$ 
```

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

Source Rule / Intent

F-137: $Q_{ref}=C_dA_{out}\sqrt{2\max(0,\Delta p_{available}-\Delta p_{loss})/\rho}$.
F-137 means Conditional reference flow under evidenced incompressible assumptions.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Incompressible_reference_out
reference "BP-ALG-131"
state R -> R1
node N1
representation JP(BP-ALG-131)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# F-137:  $Q_{ref}=C_dA_{out}\sqrt{2\max(0,\Delta p_{available}-\Delta p_{loss})/\rho}$ . F-137 means Conditional reference flow under e
```

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

Source Rule / Intent

F-138: $U_{out}=Q_{ref}/A_{out}$. F-138 means Conditional mean velocity for the declared outlet area.

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Mean_outlet_velocity
reference "BP-ALG-132"
state R -> R1
node N7
representation JP(BP-ALG-132)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# F-138:  $U_{out}=Q_{ref}/A_{out}$ . F-138 means Conditional mean velocity for the declared outlet area.
```

NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MI permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

F-139: $We = \rho \cdot U^2 \cdot L / \sigma$. F-139 means Surface-tension-to-inertia reference when the model applies.

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```

module MJ.Rainbow.Weber_number_reference
reference "BP-ALG-133"
state R -> R1
node N1
representation JP(BP-ALG-133)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# F-139: We- $\rho$ *U2*L/sigma. F-139 means Surface-tension-to-inertia reference when the model applies.

```



```

graph LR
    R((R)) --- R1((R1))
    R1 --- N1((N1))
    N1 --- U((U))
    U --- D((D))
    D --- C((C))
    C --- OUT((OUT))

```

R STATUS / OBSERVATION

SOURCE RULE / INTENT

PATH OF EXPRESSION

CODE / MATH / PROCESS REPRESENTATION

```

module MJ.Rainbow.Vector_reservoir_headroom
reference "BP-ALG-137"
state R -> R1
node N1
representation JP(BP-ALG-137)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# F-143: H L,k=C L,k-q L,k. F-143 means Headroom remains separate for every resource dimension.

```


NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

F-146: $E_{in} = E_{solar} + E_{aux} + E_{recovered}$; F-147: $E_{in} = \Delta E_{storage} + E_{load} + E_{loss} + r_E$. F-146 means All admitted energy inputs are separately measured and summed; no source may be implied or double-counted. F-147 means The shared core requires storage change, delivered load, loss, residual, and uncertainty to reconcile.

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```

module MJ.Rainbow.Solar_auxiliary_recovery_inp
reference "BP-ALG-139"
state R -> R1
node N1
representation JP(BP-ALG-139)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# F-146:  $E_{in} = E_{solar} + E_{aux} + E_{recovered}$ ; F-147:  $E_{in} = \Delta E_{storage} + E_{load} + E_{loss} + r_E$ . F-146 means All admit
    
```

NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

F-148: $P_{balance} = P_{source} - P_{load} - P_{charge} - P_{loss}$; F-149: $R_E = E_{available,L} - M_E * E_{required,H}$. F-148 means Power routing is typed and conservation-bound at each observation interval. F-149 means A start or service is eligible only when conservative available energy exceeds required energy with margin.

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

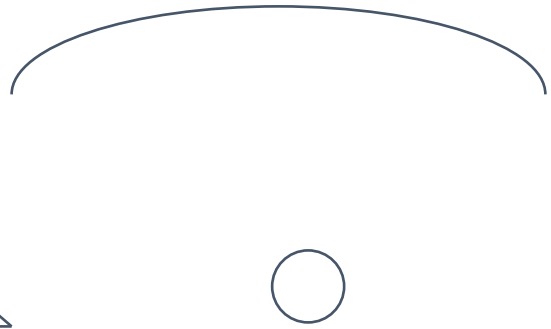
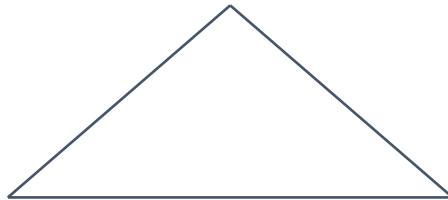
CODE / MATH / PROCESS REPRESENTATION

```

module MJ.Rainbow.Instantaneous_power_balance_
reference "BP-ALG-140"
state R -> R1
node N6
representation JP(BP-ALG-140)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# F-148: P_balance = P_source - P_load - P_charge - P_loss; F-149: R_E = E_available,L - M_E * E_required,H. F-148 means P

```

NODE PLACEMENT / RAINBOW PATH



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

F-150: $\eta_{\text{path}} = E_{\text{delivered}} / E_{\text{input}}$; F-151: $\text{SOC}_{\text{next}} = \text{clip}(\text{SOC} + (\eta_{\text{c}} * E_{\text{charge}} - E_{\text{discharge}} / \eta_{\text{d}}) / E_{\text{capacity}}, 0, 1)$. F-150 means Efficiency is a measured or simulated ratio with declared boundaries and cannot exceed one without a reconciliation fault. F-151 means Storage state is bounded and depends on measured/declared capacity and efficiencies.

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Path_efficiency_Bounded_stor
reference "BP-ALG-141"
state R -> R1
node N1
representation JP(BP-ALG-141)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# F-150: eta_path = E_delivered / E_input; F-151: SOC_next = clip(SOC + (eta_c*c*E_charge - E_discharge/eta_d)/E_capacity,0,
```

NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

F-152: $T_{next} = T + dt/C_{th} * (P_{heat} - (T-T_{env})/R_{th})$; F-153: $V_{pred}(t+h) = V_t + h*dV_{dt}$. F-152 means A reference thermal model preserves heat input, environmental exchange, units, and uncertainty. F-153 means Voltage trend predicts a reserve crossing before zero and supports bounded protective action.

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Thermal_first_order_update_P
reference "BP-ALG-142"
state R -> R1
node N1
representation JP(BP-ALG-142)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# F-152: T_next = T + dt/C_th * (P_heat - (T-T_env)/R_th); F-153: V_pred(t+h) = V_t + h*dV_dt. F-152 means A reference the
```


NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

F-156: $u_y^2 = J^* \sigma_J^2 T + u_{\text{model}}^2$; F-157: R1 --all required evidence and gates--> R2. F-156 means Every derived solar quantity carries covariance-aware measurement and model uncertainty. F-157 means Every solar command remains R1 until required evidence, safety, authority, and claims ceilings pass.

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Solar_uncertainty_propagatio
reference "BP-ALG-144"
state R -> R1
node N1
representation JP(BP-ALG-144)
physics MK(classify, units, boundary, uncertainty)
verify JO(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# F-156:  $u_y^2 = J\Sigma^*J^T + u_{model}^2$ ; F-157: R1 --all required evidence and gates--> R2. F-156 means Every derived sol
```

NODE PLACEMENT / RAINBOW PATH



Primary situational anchor: N1; U/D/C remain profile-specific.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

F-158: $E_{solar_phone} = \text{integral}(P_{pv_phone}(t), t_0, t_1)$; F-159: $P_{phone} = P_{base} + \text{sum}(P_{task_i} * a_i)$. F-158 means The semiconductor/phone profile integrates measured or simulated photovoltaic power over a named interval. F-159 means OS workload power is represented as a typed sum of baseline and admitted task loads.

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```

module MJ.Rainbow.Phone_profile_solar_energy_W
reference "BP-ALG-145"
state R -> R1
node N1
representation JP(BP-ALG-145)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# F-158: E solar phone = integral(P_pv_phone(t),t0,t1); F-159: P_phone = P_base + sum(P_task i * a_i). F-158 means The sem

```

NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MI permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

F-160: $t_{reserve} = E_{reserve,L} / P_{critical,H}$; F-161: $D_E = \max(0, E_{required,H} - E_{available,L})$. F-160 means Reserve duration uses conservative energy and critical-load bounds. F-161 means A positive deficit creates HOLD/load-shed behavior rather than invented capacity.

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Phone_reserve_duration_Phone
reference "BP-ALG-146"
state R -> R1
node N1
representation JP(BP-ALG-146)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# F-160: t_reserve = E_reserve, L / P_critical, H; F-161: D.E = max(0, E_required, H - E_available, L). F-160 means Reserve dur
```

NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

F-162: $I_{leak} = f(V,T,RH,time,material_state)$. F-162 means Leakage is a measured/profile function rather than a universal constant.

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Environment_dependent_leakag
reference "BP-ALG-147"
state R -> R1
node N1
representation JP(BP-ALG-147)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# F-162:  $I_{leak} = f(V,T,RH,time,material\_state)$ . F-162 means Leakage is a measured/profile function rather than a universa
```

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

F-163: $E_{wake} = \int (V_{wake}(t) * I_{wake}(t), t_0, t_1)$; F-164: $M_T = T_{allowable} - (T_{observed} + U_T)$. F-163 means Wake energy is measured from synchronized voltage/current data. F-164 means Thermal margin must remain nonnegative for the applicable state.

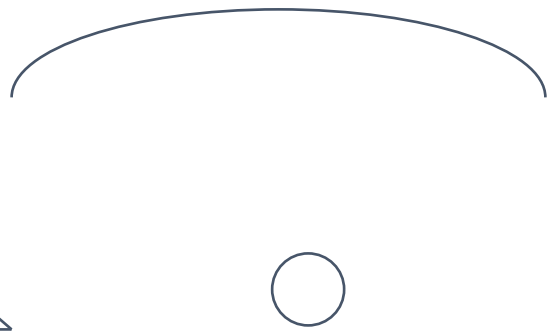
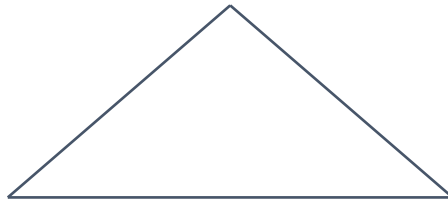
PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Wake_energy_accounting_Phone
reference "BP-ALG-148"
state R -> R1
node N5
representation JP(BP-ALG-148)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# F-163:  $E_{wake} = \int (V_{wake}(t) * I_{wake}(t), t_0, t_1)$ ; F-164:  $M_T = T_{allowable} - (T_{observed} + U_T)$ . F-163 means Wake ene
```


NODE PLACEMENT / RAINBOW PATH



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

F-167: $w_{next} = \text{bounded_simplex}((2/3)w + (1/3)w_{target}, \text{step} \leq 0.1)$; F-168: $p_{SC}(x,y,z) = o_{SC} + x*a_{SC} + y*b_{SC} + z*c_{SC}$. F-167 means Workload/resource allocation preserves nonnegative weights, sum-to-one, and the one-tenth step boundary. F-168 means Normalized topology becomes physical only through a profile-specific mapping with measured dimensions and tolerances.

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Workload_allocation_update_5
reference "BP-ALG-150"
state R -> R1
node N1
representation JP(BP-ALG-150)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# F-167: w_next = bounded_simplex((2/3)w + (1/3)w_target, step<=0.1); F-168: p_SC(x,y,z) = o_SC + x*a_SC + y*b_SC + z*c_SC
```

NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

F-169: E_SC =
min_required(article,calibration,baseline,energy,thermal,geometry,JO,MK,MJ);
F-170: E_array = integral(P_array(t),t0,t1). F-169 means The phone profile
cannot claim readiness while a controlling evidence class is absent. F-170
means Marine solar input is integrated within a named installation and
environmental boundary.

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```

module MJ.Rainbow.Phone_profile_evidence_compl
reference "BP-ALG-151"
state R -> R1
node N1
representation JP(BP-ALG-151)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# F-169: E_SC = min_required(article,calibration,baseline,energy,thermal,geometry,J0,MK,MJ); F-170: E_array = integral(P_a

```


NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

F-171: $P_{prop} = \tau * \omega$; F-172: $E_{mission} = \int (P_{prop} + P_{critical} + P_{aux}, t_0, t_1)$. F-171 means Rotational mechanical power is represented through measured torque and angular speed; geometry alone provides no propulsion claim. F-172 means Mission demand separates propulsion, critical, and auxiliary loads.

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```

module MJ.Rainbow.Marine_propulsion_load_power
reference "BP-ALG-152"
state R -> R1
node N9
representation JP(BP-ALG-152)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# F-171:  $P_{prop} = \tau * \omega$ ; F-172:  $E_{mission} = \int (P_{prop} + P_{critical} + P_{aux}, t_0, t_1)$ . F-171 means Rotational mech

```

NODE PLACEMENT / RAINBOW PATH



Primary situational anchor: N1; U/D/C remain profile-specific.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

F-173: $t_{critical} = E_{reserve,L} / P_{critical,H}$; F-174: $P_{sources} = P_{prop} + P_{critical} + P_{aux} + P_{charge} + P_{loss} + r_P$. F-173 means Critical service duration is conservative and product-classification dependent. F-174 means All marine bus flows are reconciled with a residual and uncertainty.

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

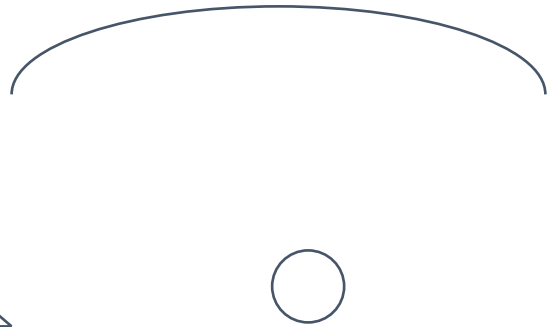
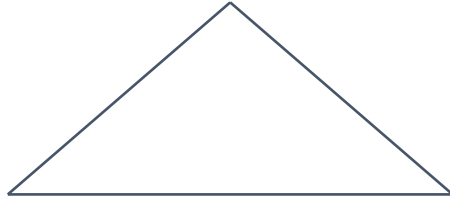
CODE / MATH / PROCESS REPRESENTATION

```

module MJ.Rainbow.Marine_critical_reserve_dura
reference "BP-ALG-153"
state R -> R1
node N1
representation JP(BP-ALG-153)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# F-173: t_critical = E_reserve,L / P_critical,H; F-174: P_sources = P_prop + P_critical + P_aux + P_charge + P_loss + r P

```


NODE PLACEMENT / RAINBOW PATH



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

F-176: $K_{leak} = I_{leak,wet} / \max(I_{leak,dry}, \epsilon)$; F-177: $X_{env} = [T, RH, salt, water, vibration, roll, pitch]$. F-176 means Environmental leakage change is explicit and cannot be hidden by a dry baseline. F-177 means Marine physical evidence remains a multi-dimensional vector.

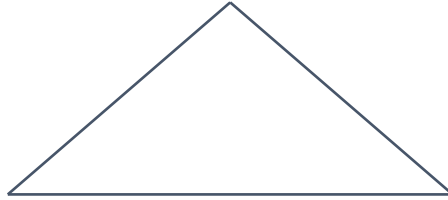
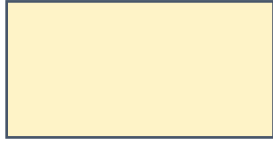
PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Wet_dry_leakage_ratio_Marine
reference "BP-ALG-155"
state R -> R1
node N1
representation JP(BP-ALG-155)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# F-176: K leak = I leak,wet / max(I leak,dry,epsilon); F-177: X_env = [T,RH,salt,water,vibration,roll,pitch]. F-176 means
```

NODE PLACEMENT / RAINBOW PATH



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

F-178: $D_{vib} = \text{integral}(a_{rms}(t)^2, t_0, t_1)$; F-179: $E_{recovered} \leq \eta_{recovery} * E_{available_loss}$. F-178 means Vibration exposure is a measured reference quantity, not a universal damage prediction. F-179 means Recovery cannot exceed evidenced available loss and efficiency.

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

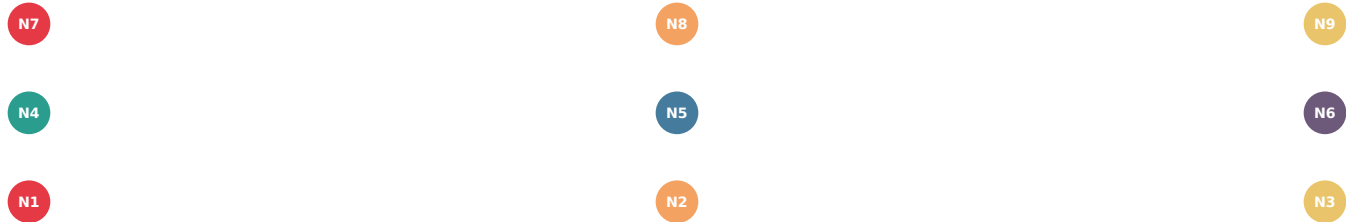
CODE / MATH / PROCESS REPRESENTATION

```

module MJ.Rainbow.Vibration_exposure_Recovered
reference "BP-ALG-156"
state R -> R1
node N4
representation JP(BP-ALG-156)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# F-178:  $D_{vib} = \int (a_{rms}(t))^2 dt$ ; F-179:  $E_{recovered} \leq \eta_{recovery} * E_{available\ loss}$ . F-178 means Vibration

```

NODE PLACEMENT / RAINBOW PATH



Primary situational anchor: N1; U/D/C remain profile-specific.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

F-180: shed = lowest_priority_loads_until(P_source,L >= P_critical,H + margin);
 F-181: G_marine = class AND environment AND energy AND structure AND
 containment AND ethics AND MJ_permit. F-180 means Containment and safety
 loads cannot be shed to preserve optional service. F-181 means No vessel
 operation or propulsion test is authorized by design trace alone.

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

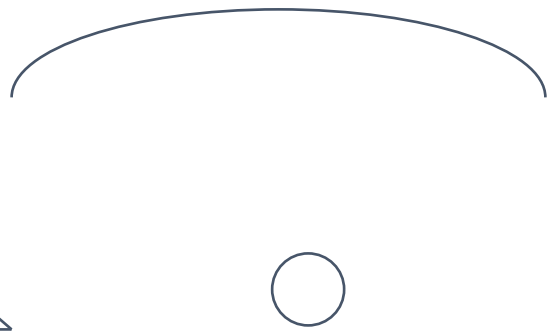
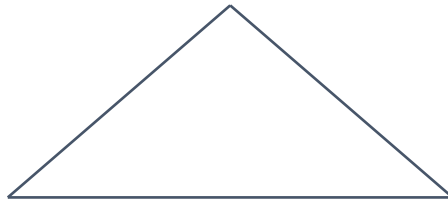
CODE / MATH / PROCESS REPRESENTATION

```

module MJ.Rainbow.Priority_load_shedding_Marin
reference "BP-ALG-157"
state R -> R1
node N1
representation JP(BP-ALG-157)
physics MK(classify, units, boundary, uncertainty)
verify JO(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# F-180: shed = lowest_priority_loads_until(P_source,L >= P_critical,H + margin); F-181: G_marine = class AND environment

```

NODE PLACEMENT / RAINBOW PATH



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

F-182: $E_space_solar = \text{integral}(P_solar_space(t), t_0, t_1)$; F-183: $P_av_source = P_avionics + P_thermal + P_comms + P_charge + P_loss + r_P$. F-182 means Solar electrical input for avionics/reserve is bounded to a declared peaceful research profile. F-183 means The reference bus separates service classes and preserves residual accounting.

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```

module MJ.Rainbow.Peaceful_spacecraft_solar_en
reference "BP-ALG-158"
state R -> R1
node N1
representation JP(BP-ALG-158)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# F-182: E_space_solar = integral(P_solar_space(t),t0,t1); F-183: P_av_source = P_avionics + P_thermal + P_comms + P_charg

```



```

graph LR
    R((R)) --> R1((R1))
    R1 --> N1((N1))
    N1 --> U((U))
    U --> D((D))
    D --> C((C))
    C --> OUT((OUT))
  
```

R STATUS / OBSERVATION

SOURCE RULE / INTENT

PATH OF EXPRESSION

CODE / MATH / PROCESS REPRESENTATION

```

module MJ.Rainbow.Fault_isolation_set_Redundan
reference "BP-ALG-161"
state R -> R1
node N1
representation JP(BP-ALG-161)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# F-188: F isolated = isolate(F detected,affected_boundaries,receipts); F-189: A_service = 1 - product(1-A_i) for independ

```

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

F-190: S_prop_next = governed_state_update(S_prop,telemetry,limits,authority); F-191: R_HE = E_safe_shutdown,L - E_shutdown_required,H. F-190 means The model coordinates state labels without selecting energetic materials, constructing propulsion, or providing launch authority. F-191 means Safe-shutdown reserve must remain nonnegative before any high-energy research transition.

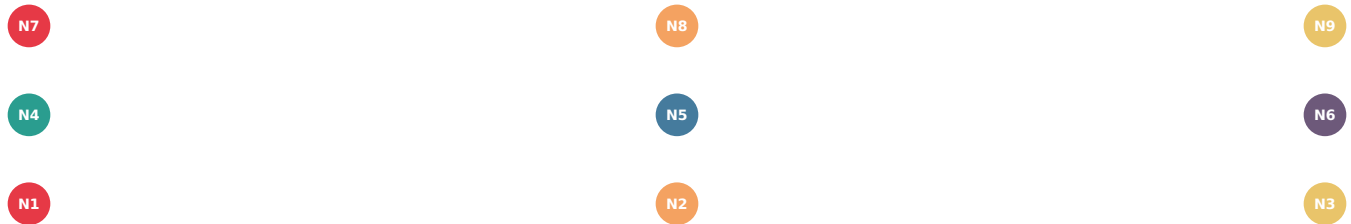
Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

module MJ.Rainbow.Propulsion_state_coordination
reference "BP-ALG-162"
state R -> R1
node N1
representation JP(BP-ALG-162)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
F-190: S_prop_next = governed_state_update(S_prop,telemetry,limits,authority); F-191: R_HE = E_safe_shutdown,L - E_shutd

IDE PLACEMENT / RAINBOW PATH



Primary situational anchor: N3; U/D/C remain profile-specific.

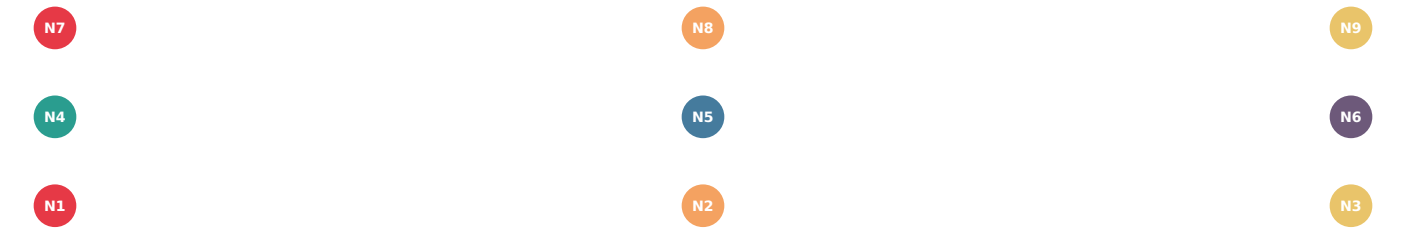
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

F-194: $d_A = 5e-22$ m; F-195: $d_B = 3e-12$ nm * $1e-9$ m/nm = $3e-21$ m. F-194 means Founder-declared theoretical lower marker; not a measured particle size. F-195 means Converts the founder alias string into SI length.

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

```
module MJ.Rainbow.DR0_founder_lower_marker_DR0
reference "BP-ALG-164"
state R -> R1
node N3
representation JP(BP-ALG-164)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# F-194: d A = 5e-22 m; F-195: d B = 3e-12 nm * 1e-9 m/nm = 3e-21 m. F-194 means Founder-declared theoretical lower marker
```

NODE PLACEMENT / RAINBOW PATH



Primary situational anchor: N1; U/D/C remain profile-specific.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

F-196: $d_R = \max(d_A, d_B) = 3e-21$ m; F-197: $d_U = 0.15 \text{ nm} = 1.5e-10 \text{ m}$.
F-196 means Conservative simulation threshold that satisfies both inconsistent founder minima. F-197 means Upper founder reference for a spherical representation.

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.DRO_conservative_R_threshold
reference "BP-ALG-165"
state R -> R1
node N1
representation JP(BP-ALG-165)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# F-196: d R = max(d A, d B) = 3e-21 m; F-197: d U = 0.15 nm = 1.5e-10 m. F-196 means Conservative simulation threshold tha
```

```

graph LR
    R((R)) --> R1((R1))
    R1 --> N1((N1))
    N1 --> U((U))
    U --> D((D))
    D --> C((C))
    C --> OUT((OUT))
  
```

R STATUS / OBSERVATION

SOURCE RULE / INTENT

PATH OF EXPRESSION

CODE / MATH / PROCESS REPRESENTATION

```

module MJ.Rainbow.DR0_declared_interval_DR0_re
reference "BP-ALG-166"
state R -> R1
node N1
representation JP(BP-ALG-166)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# F-198: d in [d_R,d_U]; F-199: r_DR0 = d/2. F-198 means A typed simulation interval; not physical existence. F-199 means

```

```

graph LR
    R((R)) --- R1((R1))
    R1 --- N1((N1))
    N1 --- U((U))
    U --- D((D))
    D --- C((C))
    C --- OUT((OUT))

```

R STATUS / OBSERVATION

R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

F-200: $V_DRO = 4 \cdot \pi \cdot r_DRO^3 / 3$; F-201: $\Gamma_D = d_U / d_R$. F-200 means Classical sphere representation only at the declared scale. F-201 means Scale separation between R threshold and upper reference.

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

```
module MJ.Rainbow.DR0_spherical_reference_volu
reference "BP-ALG-167"
state R -> R1
node N1
representation JP(BP-ALG-167)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# F-200:  $V_{DR0} = 4\pi r_{DR0}^3/3$ ; F-201:  $\Gamma_D = dU/dR$ . F-200 means Classical sphere representation only at the declare
```


NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

F-202: $N_DRO = \text{floor}(Q_observed/q_unit)$; F-203: $Q_rem = Q_observed - N_DRO * q_unit$. F-202 means Count of complete typed DRO units from a measured or simulated quantity. F-203 means Unallocated typed remainder; never silently discarded.

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

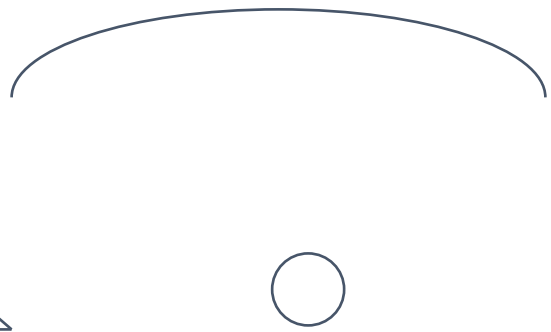
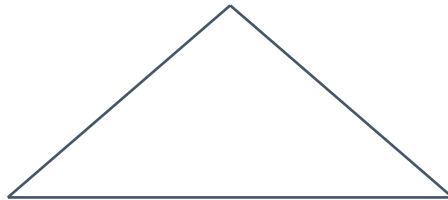
CODE / MATH / PROCESS REPRESENTATION

```

module MJ.Rainbow.DRO_quantity_count_DRO_remain
reference "BP-ALG-168"
state R -> R1
node N7
representation JP(BP-ALG-168)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# F-202: N_DRO = floor(Q_observed/q_unit); F-203: Q_rem = Q_observed - N_DRO*q_unit. F-202 means Count of complete typed D

```

NODE PLACEMENT / RAINBOW PATH



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

F-204: $N_P = \text{ceil}(N_{\text{DRO}}/C_P)$; F-205: $N_{\text{DRO},in} = N_{\text{DRO},\text{pearl}} + N_{\text{DRO},\text{held}} + N_{\text{DRO},\text{escaped}} + r_{\text{DRO}}$. F-204 means Number of computational Pearl nodes required for DRO records. F-205 means Discrete conservation across the handoff.

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

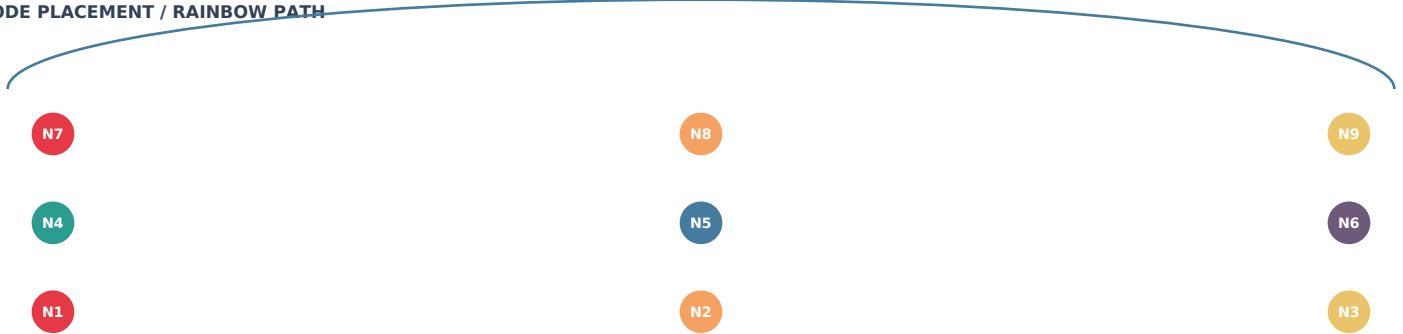
CODE / MATH / PROCESS REPRESENTATION

```

module MJ.Rainbow.Pearl_node_allocation_count_
reference "BP-ALG-169"
state R -> R1
node N1
representation JP(BP-ALG-169)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# F-204: N P = ceil(N DR0/C P); F-205: N DR0,in = N DR0,pearl + N DR0,held + N DR0,escaped + r DR0. F-204 means Number of

```

NODE PLACEMENT / RAINBOW PATH



Primary situational anchor: N1; U/D/C remain profile-specific.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

F-206: G_R = scale_interval_valid AND source_bound AND units_valid. F-206 means Eligibility for an R candidate.

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

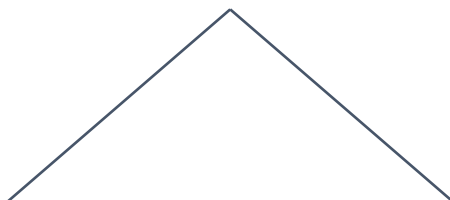
CODE / MATH / PROCESS REPRESENTATION

```

module MJ.Rainbow.DRO_R_state_gate
reference "BP-ALG-170"
state R -> R1
node N1
representation JP(BP-ALG-170)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# F-206: G_R = scale_interval_valid AND source_bound AND units_valid. F-206 means Eligibility for an R candidate.

```

NODE PLACEMENT / RAINBOW PATH



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

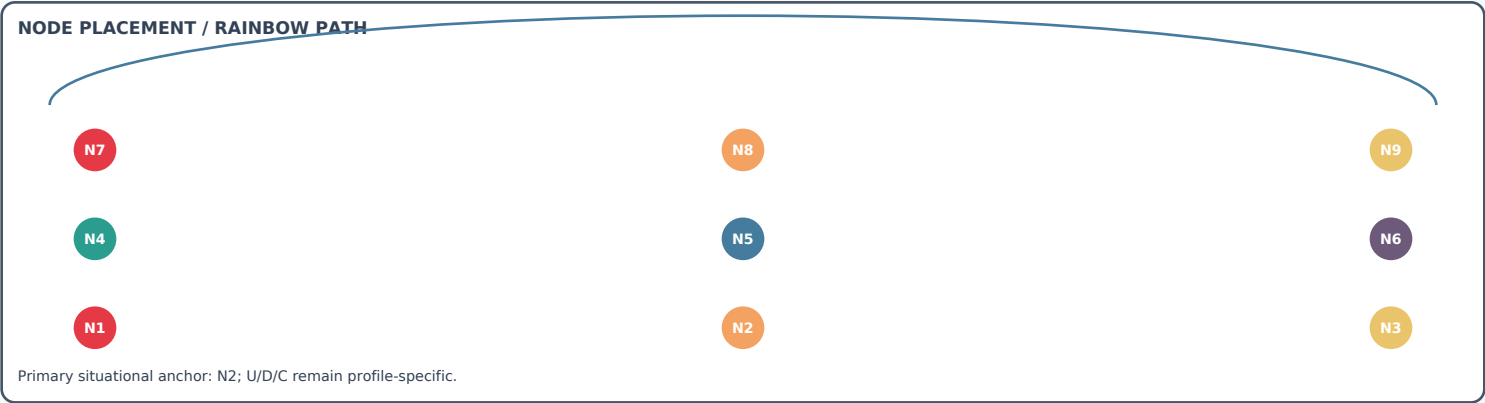
F-207: $G_R1 = G_R \text{ AND observed AND unresolved_items} > 0$; F-208: $G_R2 = G_R \text{ AND observed AND all_required_evidence_pass}$. F-207 means Observed-but-unresolved transition remains R1. F-208 means Verified livina-static DRO representation.

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.DR0_R1_gate_DR0_R2_gate
reference "BP-ALG-171"
state R -> R1
node N1
representation JP(BP-ALG-171)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# F-207: G R1 = G R AND observed AND unresolved items>0; F-208: G R2 = G R AND observed AND all_required_evidence_pass, F-
```



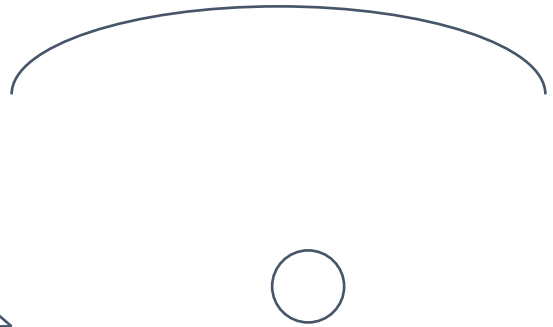
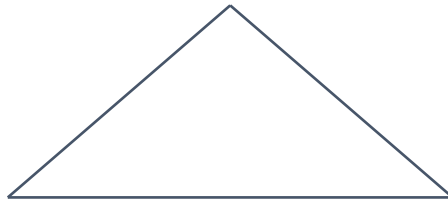
R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	F-209: $\lambda = c/f$; F-210: $E_{\gamma} = h \cdot f$. F-209 means Reference wavelength for a measured optical-control frequency. F-210 means Energy per photon at frequency f .

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Optical_wavelength_Photon_en
reference "BP-ALG-172"
state R -> R1
node N2
representation JP(BP-ALG-172)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# F-209:  $\lambda = c/f$ ; F-210:  $E_{\gamma} = h \cdot f$ . F-209 means Reference wavelength for a measured optical-control frequency. F-
```


NODE PLACEMENT / RAINBOW PATH



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

F-215: $U_d = k \cdot \sqrt{I \cdot \Sigma} \cdot \sqrt{\hat{U}_d} + u_{\text{model}}^2$; F-216: $I_d = [\hat{U}_d - U_d, \hat{U}_d + U_d]$. F-215 means Expanded uncertainty of the scale representation. F-216 means Evidence interval used for R/R1/R2 classification.

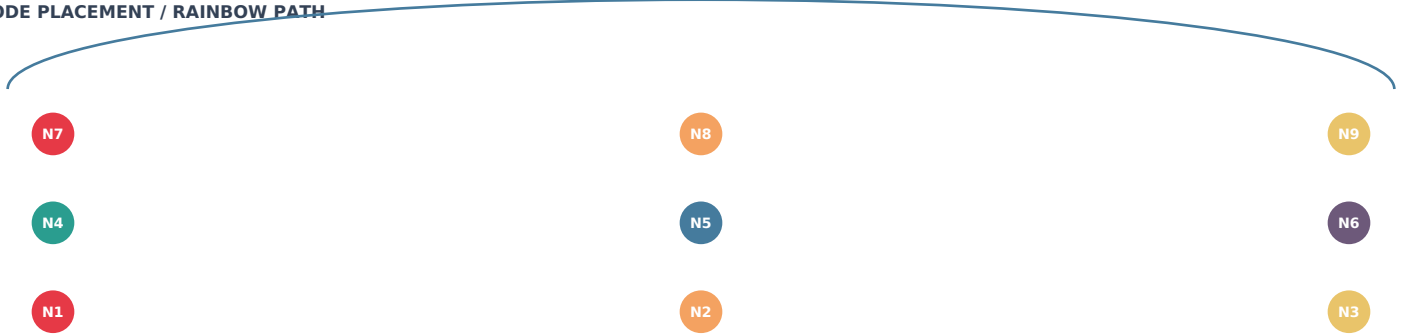
PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.DRO_scale_uncertainty_DRO_in
reference "BP-ALG-175"
state R -> R1
node N1
representation JP(BP-ALG-175)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# F-215:  $U_d = k \cdot \sqrt{J \cdot \Sigma \cdot J^T + u\_model^2}$ ; F-216:  $I_d = [d\_hat - U_d, d\_hat + U_d]$ . F-215 means Expanded uncertainty of th
```


NODE PLACEMENT / RAINBOW PATH



Primary situational anchor: N6; U/D/C remain profile-specific.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

F-217: $S_k = (1-h_k)C_k - L_k$. F-217 means Remaining capacity in each typed Pearl-node dimension.

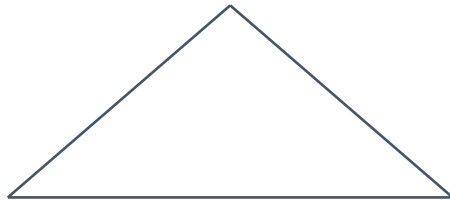
PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.DRO_capacity_slack
reference "BP-ALG-176"
state R -> R1
node N6
representation JP(BP-ALG-176)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# F-217: S.k = (1-h k)C.k - L.k. F-217 means Remaining capacity in each typed Pearl-node dimension.
```

NODE PLACEMENT / RAINBOW PATH



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

F-218: $E_k = \max(0, L_k - (1 - h_k)C_k)$; F-219: $r_Q = Q_{in-Q} - Q_{alloc-Q} - Q_{retained-Q} - Q_{transferred-Q} - Q_{escaped-Q} - \Delta Q_{stored}$. F-218 means Typed excess; surplus in another dimension cannot compensate. F-219 means Complete quantity balance.

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.DRO_overflow_vector_DRO_ledg
reference "BP-ALG-177"
state R -> R1
node N1
representation JP(BP-ALG-177)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# F-218:  $E_k = \max(\theta, L_k - (1-h_k)C_k)$ ; F-219:  $r_Q = q_{in-Q} - q_{alloc-Q} - q_{retained-Q} - q_{transferred-Q} - q_{escaped-\Delta} - q_{stored}$ . F-218 m
```

NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

F-220: $r_E = E_{in} - E_{stored} - E_{start} - E_{restart} - E_{loss} - E_{containment}$; F-221: $E_{avail} = E_{solar} + E_{acoustic} + E_{other} - E_{loss}$; H. F-220 means Energy conservation for reference start accounting. F-221 means Conservative available energy.

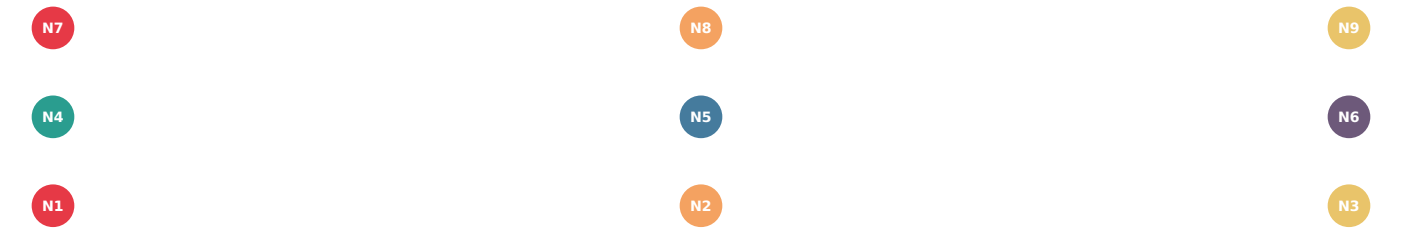
PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.DRO_energy_ledger_Available_
reference "BP-ALG-178"
state R -> R1
node N1
representation JP(BP-ALG-178)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# F-220: r.E = E in-E stored-E start-E restart-E loss-E containment; F-221: E avail,L = E solar,L + E acoustic,L + E other
```

NODE PLACEMENT / RAINBOW PATH



Primary situational anchor: N1; U/D/C remain profile-specific.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

F-222: $G_start = E_avail, L \geq M_E * (E_start, H + E_restart, H)$ AND all_safety_gates; F-223: $E_restart, L = E_reserve, L - E_critical, H$. F-222 means Start readiness requires immediate start plus restart reserve. F-223 means Lower-bound reserve after critical obligations.

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

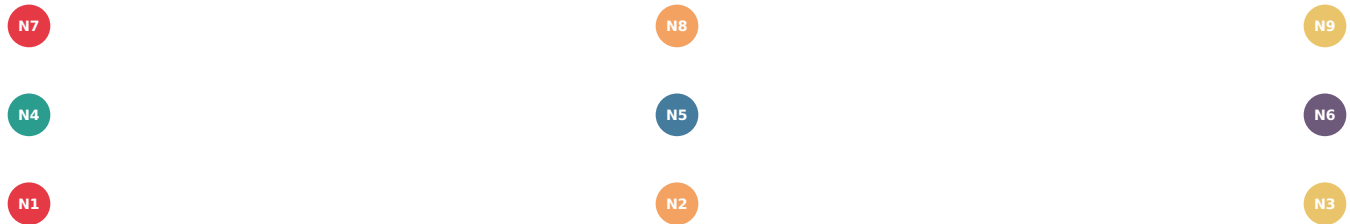
CODE / MATH / PROCESS REPRESENTATION

```

module MJ.Rainbow.Start_gate.Restart_reserve
reference "BP-ALG-179"
state R -> R1
node N1
representation JP(BP-ALG-179)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# F-222: G_start = E_avail, L >= M E*(E_start, H+E_restart, H) AND all_safety_gates; F-223: E_restart, L = E_reserve, L - E_cri

```

NODE PLACEMENT / RAINBOW PATH



Primary situational anchor: N1; U/D/C remain profile-specific.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

F-224: $E_{\text{solar}} = \text{integral}(P_{\text{solar}}(t) \, dt)$; F-225: $E_{\text{acoustic}} = \text{integral}(\eta_a(t) I(t) A(t) \, dt)$. F-224 means Measured solar contribution to the reference ledger. F-225 means Measured conversion only; noise alone does not prove usable energy.

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```

module MJ.Rainbow.Solar_contribution_Acoustic_
reference "BP-ALG-180"
state R -> R1
node N1
representation JP(BP-ALG-180)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# F-224:  $E_{solar} = \int P_{solar}(t) dt$ ; F-225:  $E_{acoustic} = \int \eta_a(t) I(t) A(t) dt$ . F-224 means Measured solar

```

NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

F-226: $W_{sep} \geq \Delta G_{sep}$; F-227: $n_{species} = x_{species} \cdot n_{source}$. F-226 means Any species-separation claim requires a thermodynamic and measured energy balance. F-227 means Available amount depends on measured composition, not assumption.

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```

module MJ.Rainbow.Generic_separation_work_lowe
reference "BP-ALG-181"
state R -> R1
node N1
representation JP(BP-ALG-181)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# F-226:  $W_{sep} \geq \Delta G_{sep}$ ; F-227:  $n_{species} = x_{species} \cdot n_{source}$ . F-226 means Any species-separation claim requires a
    
```

NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

F-228: $\eta = E_{out}/E_{in}$, $0 \leq \eta \leq 1$; F-229: $G_{release} = authorization \text{ AND } destination_capacity \text{ AND } conservation \text{ AND } safety$. F-228 means Measured conversion efficiency; undefined when input is zero or unknown. F-229 means Normalizes pop/release language to a bounded logical event.

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```

module MJ.Rainbow.Conversion_efficiency_Contro
reference "BP-ALG-182"
state R -> R1
node N1
representation JP(BP-ALG-182)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# F-228:  $\eta = E_{out}/E_{in}$ ,  $0 \leq \eta \leq 1$ ; F-229:  $G_{release} = authorization \text{ AND } destination\_capacity \text{ AND } conservation \text{ AND } safety$ 
    
```

NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

F-230: $T_H \leq T_{allow} - \Delta T_{margin}$; F-231: $\Delta Q = \int (I_{intake} - I_{leak} - I_{release}) dt + r_Q$. F-230 means Conservative thermal boundary for any future physical profile. F-231 means Charge accounting for the semiconductor profile.

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.DRO_thermal_gate_Semiconduct
reference "BP-ALG-183"
state R -> R1
node N1
representation JP(BP-ALG-183)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# F-230: T_H <= T_allow-Delta T_margin; F-231: Delta Q = integral(I_intake-I_leak-I_release)dt + r_Q. F-230 means Conserva
```


Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

Source Rule / Intent

F-232: B_P = B_DRO+B_lineage+B_uncertainty+B_receipts+B_headroom; F-233: E_node,L >= M_E*(E_wake,H+E_restart,H). F-232 means Memory required for a computational Pearl node. F-233 means Reference wake and restart reserve gate.

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

module MJ.Rainbow.Semiconductor_Pearl_node_mem
reference "BP-ALG-184"
state R -> R1
node N5
representation JP(BP-ALG-184)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
F-232: B_P = B_DRO+B_lineage+B_uncertainty+B_receipts+B_headroom; F-233: E_node,L >= M_E*(E_wake,H+E_restart,H). F-232 m

NODE PLACEMENT / RAINBOW PATH



Primary situational anchor: N1; U/D/C remain profile-specific.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

F-234: G_SC = profile==SC AND no_LS_value_inheritance; F-235: H_src = SHA256(source_bytes). F-234 means Rejects marine or rocket physical values in the SC profile. F-235 means Immutable source identity reference.

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Semiconductor_profile_isolat
reference "BP-ALG-185"
state R -> R1
node N1
representation JP(BP-ALG-185)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# F-234: G_SC = profile==SC AND no_LS_value_inheritance; F-235: H_src = SHA256(source_bytes). F-234 means Rejects marine o
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	F-236: $D_{px} = (1/N) \sum I_{test} - I_{ref} _2$; F-237: $D_{fft} = FFT(I_{test}) - FFT(I_{ref}) _2$. F-236 means Average per-pixel residual after declared registration and color handling. F-237 means Frequency-domain residual used as evidence, not intent truth.

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Lecanto_pixel_residual_Lecan
reference "BP-ALG-186"
state R -> R1
node N1
representation JP(BP-ALG-186)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# F-236:  $D_{px} = (1/N) \sum ||I_{test} - I_{ref}||_2$ ; F-237:  $D_{fft} = ||FFT(I_{test}) - FFT(I_{ref})||_2$ . F-236 means Average per-pixel r
```

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

F-238: $P_{prov} = \frac{complete_required_links}{required_links}$; F-239: $H_{intent} = f(words, context, declared_purpose, provenance)$. F-238 means Provenance completeness ratio; one missing mandatory link causes HOLD. F-239 means A bounded hypothesis, never a fact or authority grant.

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Lecanto_provenance_completen
reference "BP-ALG-187"
state R -> R1
node N1
representation JP(BP-ALG-187)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# F-238: P_prov = complete_required_links/required_links; F-239: H_intent = f(words,context,declared_purpose,provenance).
```


NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

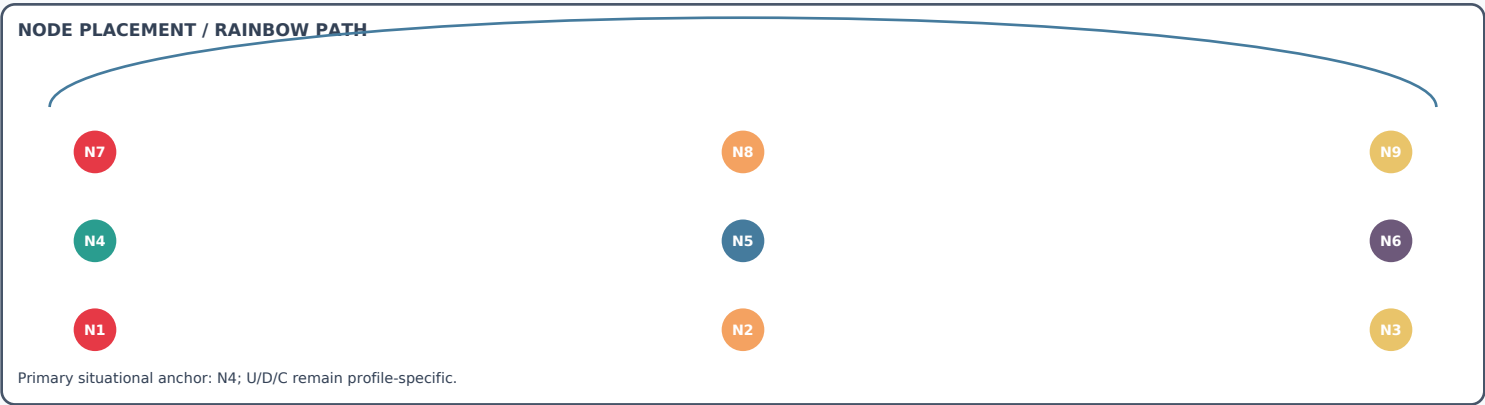
F-242: G_R8 = DRO_valid AND Pearl_node_valid AND Lecanto_when_image AND MK_pass AND JO_pass AND ethics AND MJ_permit. F-242 means Complete R8 command gate.

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.R8_command_admissibility
reference "BP-ALG-189"
state R -> R1
node N1
representation JP(BP-ALG-189)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# F-242: G_R8 = DRO_valid AND Pearl_node_valid AND Lecanto_when_image AND MK_pass AND JO_pass AND ethics AND MJ_permit. F-
```

R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Role: Deterministic semantic recovery and purpose-preservation layer. Values: meaning fidelity, purpose confinement, clarity. Inputs: Bangel source, context evidence. Outputs: semantic envelope, ambiguity hold.

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Elsa_Family_Manifestation
reference "BP-FAM-003"
state R -> R1
node N4
representation JP(BP-FAM-003)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Role: Deterministic semantic recovery and purpose-preservation layer. Values: meaning fidelity, purpose confinement, cla
```

```

graph LR
    R((R)) --> R1((R1))
    R1 --> N1((N1))
    N1 --> U((U))
    U --> D((D))
    D --> C((C))
    C --> OUT((OUT))
  
```

Hypothetical until typed evidence, profile geometry, and MI permit support an effect.

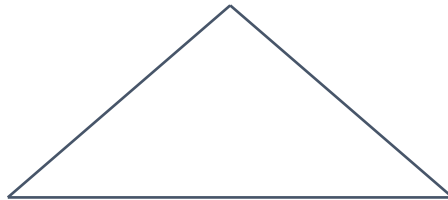
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Role: Canonical mathematical, algorithmic, topology, CAPO, and architecture representation. Values: mathematical rigor, provenance, equivalence. Inputs: semantic envelope, founder laws. Outputs: math CAPO, algorithm CAPO, architecture CAPO, Pearl CAPO, Bangel Sheet dependency CAPO, JPOSMJ product envelope.

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

```
module MJ.Rainbow.JP_Family_Manifestation
reference "BP-FAM-004"
state R -> R1
node N1
representation JP(BP-FAM-004)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Role: Canonical mathematical, algorithmic, topology, CAPO, and architecture representation. Values: mathematical rigor,
```

NODE PLACEMENT / RAINBOW PATH



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Role: Physics Modulator System for dimensional, conservation, boundary, scale, and evidence representation. Values: physical truth, unit integrity, conservation, uncertainty honesty. Inputs: JP math CAPO, environment, control volume, evidence, Pearl simulation geometry/acoustic profile, Bangel Sheet workload and dependency field. Outputs: physics CAPO, not-applicable receipt, hold, technical fail, Pearl physics receipt, spreadsheet resource-physics receipt.

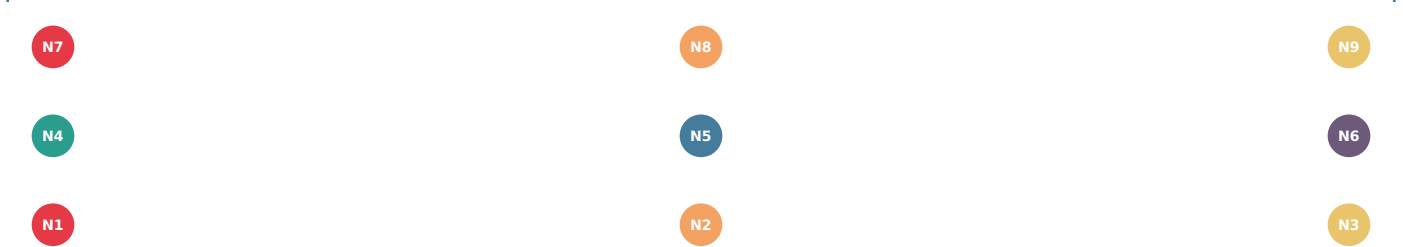
PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Mika_MK_Family_Manifestation
reference "BP-FAM-005"
state R -> R1
node N1
representation JP(BP-FAM-005)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Role: Physics Modulator System for dimensional, conservation, boundary, scale, and evidence representation. Values: phys
```

NODE PLACEMENT / RAINBOW PATH



Primary situational anchor: N1; U/D/C remain profile-specific.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Role: Deterministic type, unit, proof, validation, runtime, and evidence engine. Values: fail closed, reproducibility, auditability. Inputs: typed CAPOs, authority receipts, evidence, Bangel Sheet revisions, Pearl lifecycle packets. Outputs: proof receipt, runtime result, hold, deny, sheet revision receipt, Pearl balance receipt.

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.J0_Family_Manifestation
reference "BP-FAM-006"
state R -> R1
node N1
representation JP(BP-FAM-006)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Role: Deterministic type, unit, proof, validation, runtime, and evidence engine. Values: fail closed, reproducibility, a
```


NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Role: Independent defense, challenge, quarantine, hostile-deviation analysis, and denial. Values: defense, independence, containment. Inputs: commands, threat evidence. Outputs: deny, quarantine, challenge receipt.

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Bellatrix_Family_Manifestati
reference "BP-FAM-009"
state R -> R1
node N1
representation JP(BP-FAM-009)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Role: Independent defense, challenge, quarantine, hostile-deviation analysis, and denial. Values: defense, independence,
```


Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

Source Rule / Intent

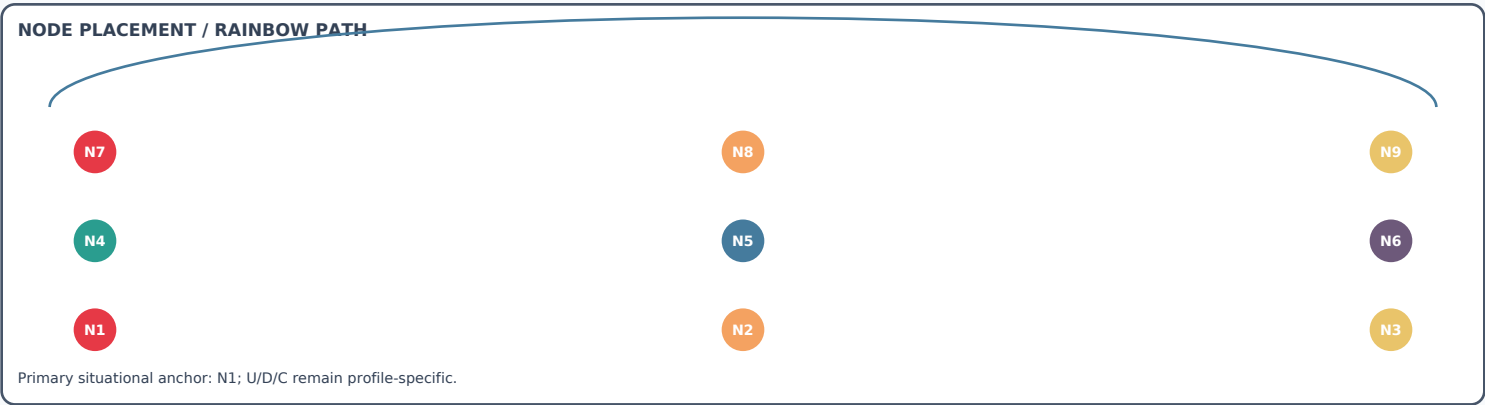
Role: Variance, evaporative effect, screen capture, leakage, smoke-like egress, and boundary-accounting evidence. Values: diligence, respect, loss accounting, boundary truth. Inputs: mass/weight states, flows, screen measurements, residuals. Outputs: EVE observation, capture/egress ledger, hold, Pearl escape/capture observation.

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

module MJ.Rainbow.EVE_Family_Manifestation
reference "BP-FAM-011"
state R -> R1
node N3
representation JP(BP-FAM-011)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
Role: Variance, evaporative effect, screen capture, leakage, smoke-like egress, and boundary-accounting evidence. Values



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Role: Bounded routing, API gateway, load balancing, connection pooling, and allocation stewardship. Values: fair allocation, resource hygiene, bounded routing. Inputs: admitted command, MJ lease, capacity evidence. Outputs: route receipt, allocation lease use, return receipt, Pearl allocation/transfer receipt, Bangel Sheet partition route receipt.

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Mary_M3_Family_Manifestation
reference "BP-FAM-012"
state R -> R1
node N1
representation JP(BP-FAM-012)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Role: Bounded routing, API gateway, load balancing, connection pooling, and allocation stewardship. Values: fair allocat
```

NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Role: Accounting, reconciliation, exposure, custody evidence, statements, tax lots, and financial consequence. Values: ledger truth, reconciliation, transparency. Inputs: transaction evidence, EVE evidence, Shiva proposal, Pearl lifecycle and Bangel Sheet audit particles. Outputs: account, balance, exposure, reconciliation receipt.

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Mermaid_Family_Manifestation
reference "BP-FAM-013"
state R -> R1
node N1
representation JP(BP-FAM-013)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Role: Accounting, reconciliation, exposure, custody evidence, statements, tax lots, and financial consequence. Values: l
```

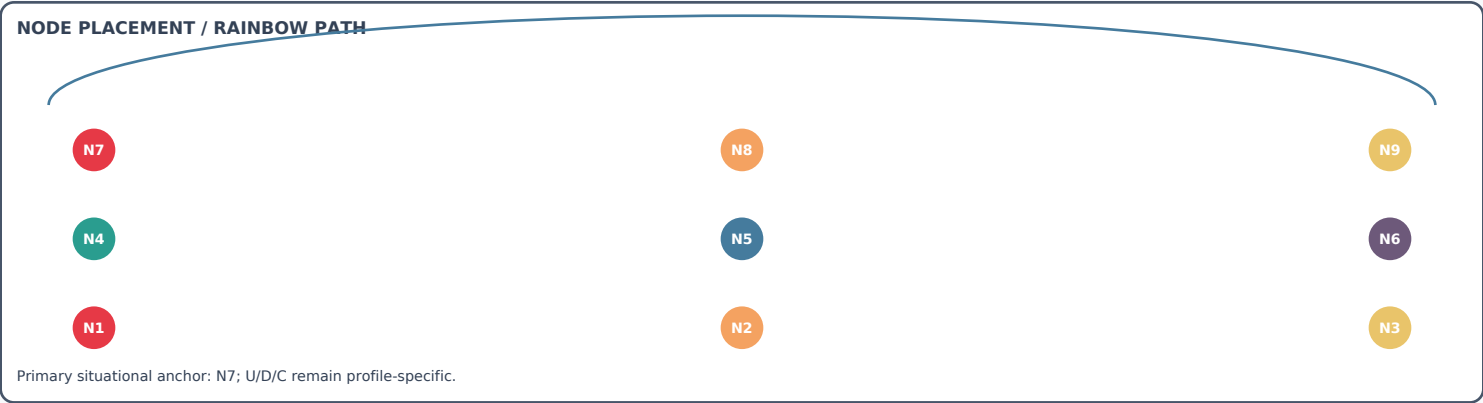


R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Role: Finance, money, treasury, liquidity, capital-job classification, risk/opportunity analysis, and distribution proposal. Values: liquidity first, stability, abundance with discipline, auditability. Inputs: capital purpose, Mermaid account, MK friction, risk evidence, Pearl regeneration opportunity vectors. Outputs: capital proposal, job-of-money classification, distribution plan.

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Shiva_Family_Manifestation
reference "BP-FAM-014"
state R -> R1
node N1
representation JP(BP-FAM-014)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Role: Finance, money, treasury, liquidity, capital-job classification, risk/opportunity analysis, and distribution propo
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Role: Distributed placement, replication, continuity, and infrastructure evidence. Values: continuity, bounded placement, resilience. Inputs: placement request, MJ lease. Outputs: placement receipt, continuity evidence.

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Shekina_Family_Manifestation
reference "BP-FAM-015"
state R -> R1
node N7
representation JP(BP-FAM-015)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Role: Distributed placement, replication, continuity, and infrastructure evidence. Values: continuity, bounded placement
```


NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Role: Truthful governed visualization of state, provenance, uncertainty, and system structure. Values: visibility, truth, uncertainty disclosure. Inputs: JO evidence, Mermaid account, MK physics receipt, Bangel Sheet lineage and Pearl state. Outputs: visual representation.

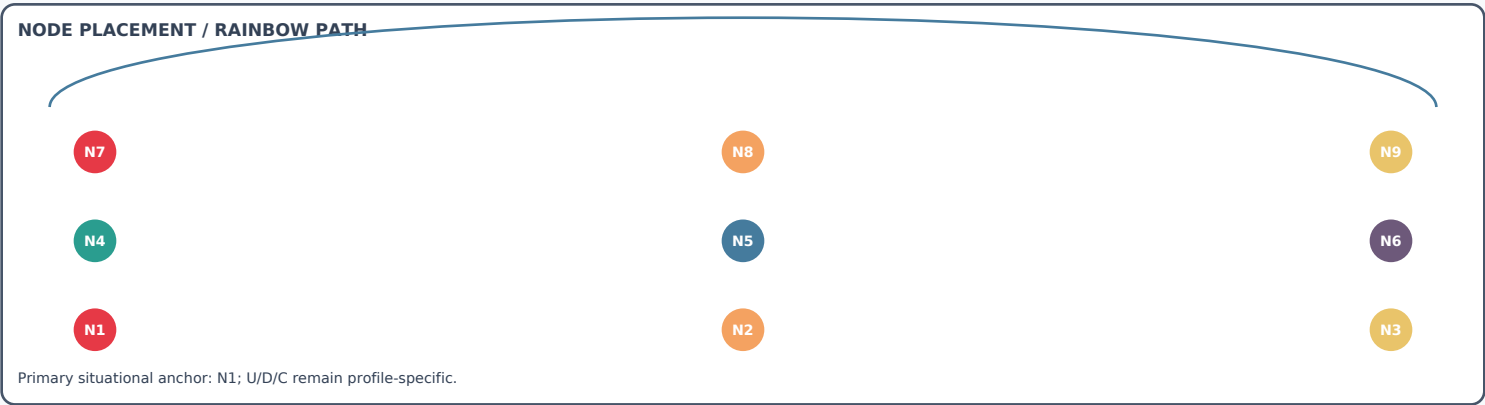
PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```

module MJ.Rainbow.Lecanto_Family_Manifestation
reference "BP-FAM-017"
state R -> R1
node N1
representation JP(BP-FAM-017)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Role: Truthful governed visualization of state, provenance, uncertainty, and system structure. Values: visibility, truth
    
```



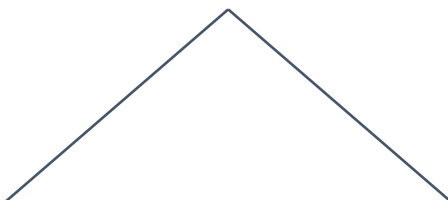
R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Role: Browser and interaction presentation of governed applications and evidence. Values: interaction truth, accessibility, bounded presentation. Inputs: Lecanto views, JO evidence. Outputs: interaction surface.

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Moana_Family_Manifestation
reference "BP-FAM-018"
state R -> R1
node N1
representation JP(BP-FAM-018)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Role: Browser and interaction presentation of governed applications and evidence. Values: interaction truth, accessibili
```


NODE PLACEMENT / RAINBOW PATH



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Role: Interval uncertainty, verified floor, and bounded unknown-state classification. Values: uncertainty honesty, bounded intervals. Inputs: measurement intervals, evidence limits. Outputs: state classification.

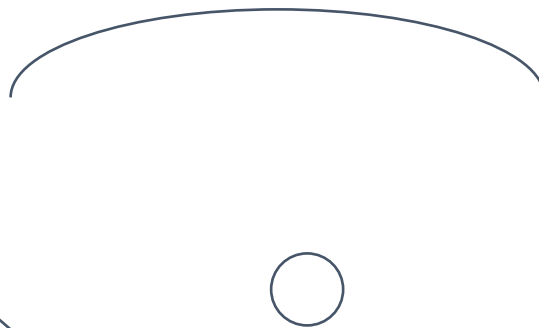
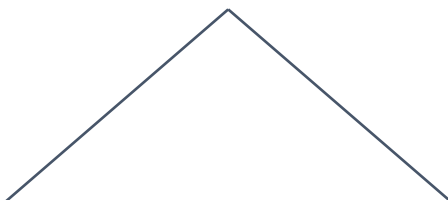
PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.WATER_Family_Manifestation
reference "BP-FAM-021"
state R -> R1
node N1
representation JP(BP-FAM-021)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Role: Interval uncertainty, verified floor, and bounded unknown-state classification. Values: uncertainty honesty, bound
```

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.



R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Object role: Canonical math, algorithm, topology, or architecture representation. Authority flag: False. The object carries typed state, provenance, evidence, and relationships but cannot authorize itself or enlarge its own scope.

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> IO evidence.

```
module MJ.Rainbow.JP_CAPO_Governed_Object
reference "BP-0BJ-001"
state R -> R1
node N1
representation JP(BP-0BJ-001)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Object role: Canonical math, algorithm, topology, or architecture representation. Authority flag: False. The object carries
```

NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Object role: Physics applicability, quantities, units, boundaries, equations, uncertainty, and evidence. Authority flag: False. The object carries typed state, provenance, evidence, and relationships but cannot authorize itself or enlarge its own scope.

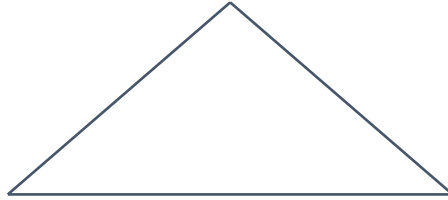
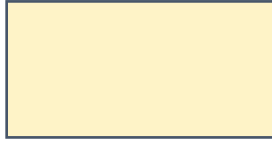
PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.MK_PHYSICS_CAPO_Governed_Obj
reference "BP-0BJ-002"
state R -> R1
node N6
representation JP(BP-0BJ-002)
physics MK(classify, units, boundary, uncertainty)
verify JO(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Object role: Physics applicability, quantities, units, boundaries, equations, uncertainty, and evidence. Authority flag:
```

NODE PLACEMENT / RAINBOW PATH



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Object role: Executed verification result. Authority flag: False. The object carries typed state, provenance, evidence, and relationships but cannot authorize itself or enlarge its own scope.

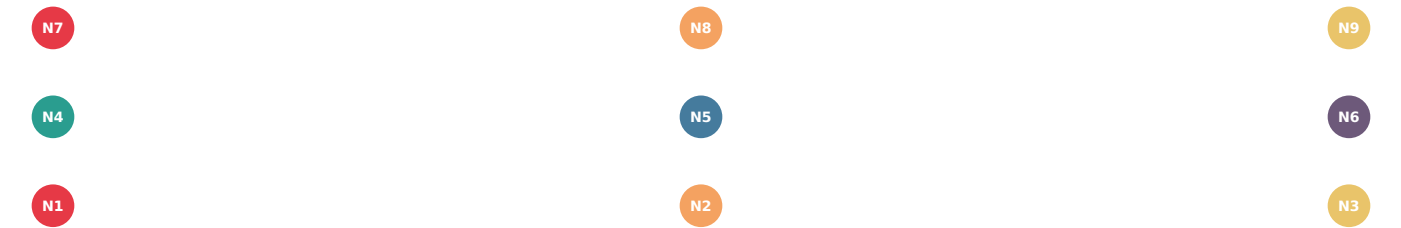
PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.J0_PROOF_RECEIPT_Governed_0b
reference "BP-0BJ-003"
state R -> R1
node N1
representation JP(BP-0BJ-003)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Object role: Executed verification result. Authority flag: False. The object carries typed state, provenance, evidence,
```

NODE PLACEMENT / RAINBOW PATH



Primary situational anchor: N1; U/D/C remain profile-specific.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Object role: Bounded permit decision issued only by MJ. Authority flag: False. The object carries typed state, provenance, evidence, and relationships but cannot authorize itself or enlarge its own scope.

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.MJ_PERMIT_Governed_Object
reference "BP-0BJ-004"
state R -> R1
node N1
representation JP(BP-0BJ-004)
physics MK(classify, units, boundary, uncertainty)
verify JO(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Object role: Bounded permit decision issued only by MJ. Authority flag: False. The object carries typed state, provenance
```

NODE PLACEMENT / RAINBOW PATH

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Object role: Variance, screen, capture, egress, or residual evidence. Authority flag: False. The object carries typed state, provenance, evidence, and relationships but cannot authorize itself or enlarge its own scope.

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

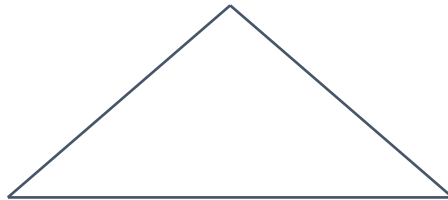
CODE / MATH / PROCESS REPRESENTATION

```

module MJ.Rainbow.EVE_OBSERVATION_Governed_Obj
reference "BP-OBJ-005"
state R -> R1
node N1
representation JP(BP-OBJ-005)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Object role: Variance, screen, capture, egress, or residual evidence. Authority flag: False. The object carries typed st

```


NODE PLACEMENT / RAINBOW PATH



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Object role: Bounded routing and resource-use receipt. Authority flag: False. The object carries typed state, provenance, evidence, and relationships but cannot authorize itself or enlarge its own scope.

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.M3_ROUTE_RECEIPT_Governed_Ob
reference "BP-0BJ-006"
state R -> R1
node N1
representation JP(BP-0BJ-006)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Object role: Bounded routing and resource-use receipt. Authority flag: False. The object carries typed state, provenance
```

NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MI permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Object role: Accounting, custody, exposure, tax, and reconciliation record.
Authority flag: False. The object carries typed state, provenance, evidence, and relationships but cannot authorize itself or enlarge its own scope.

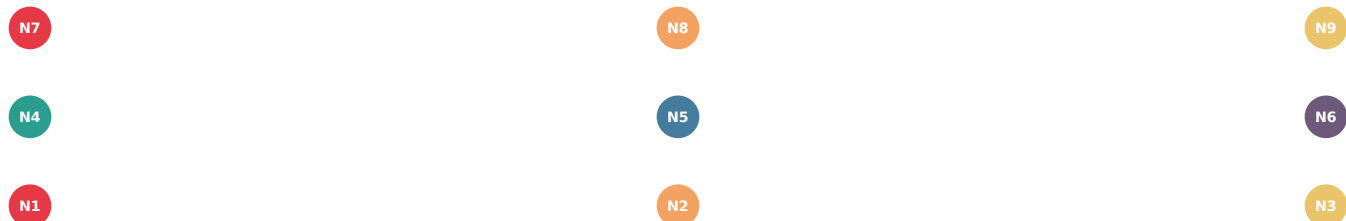
PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.MERMAID_ACCOUNT_Governed_Obj
reference "BP-0BJ-007"
state R -> R1
node N1
representation JP(BP-0BJ-007)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Object role: Accounting, custody, exposure, tax, and reconciliation record. Authority flag: False. The object carries ty
```

NODE PLACEMENT / RAINBOW PATH



Primary situational anchor: N1; U/D/C remain profile-specific.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Object role: Governed account envelope for typed financial representations.
Authority flag: False. The object carries typed state, provenance, evidence, and relationships but cannot authorize itself or enlarge its own scope.

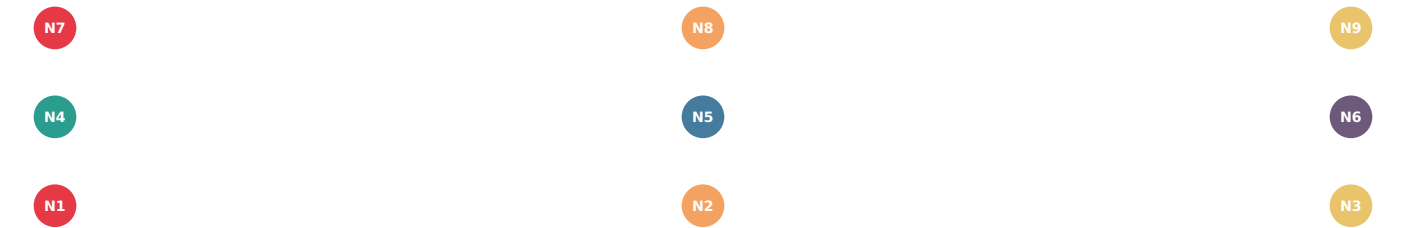
PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.SHIVA_SHELL_Governed_Object
reference "BP-0BJ-008"
state R -> R1
node N1
representation JP(BP-0BJ-008)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Object role: Governed account envelope for typed financial representations. Authority flag: False. The object carries ty
```

NODE PLACEMENT / RAINBOW PATH



Primary situational anchor: N1; U/D/C remain profile-specific.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

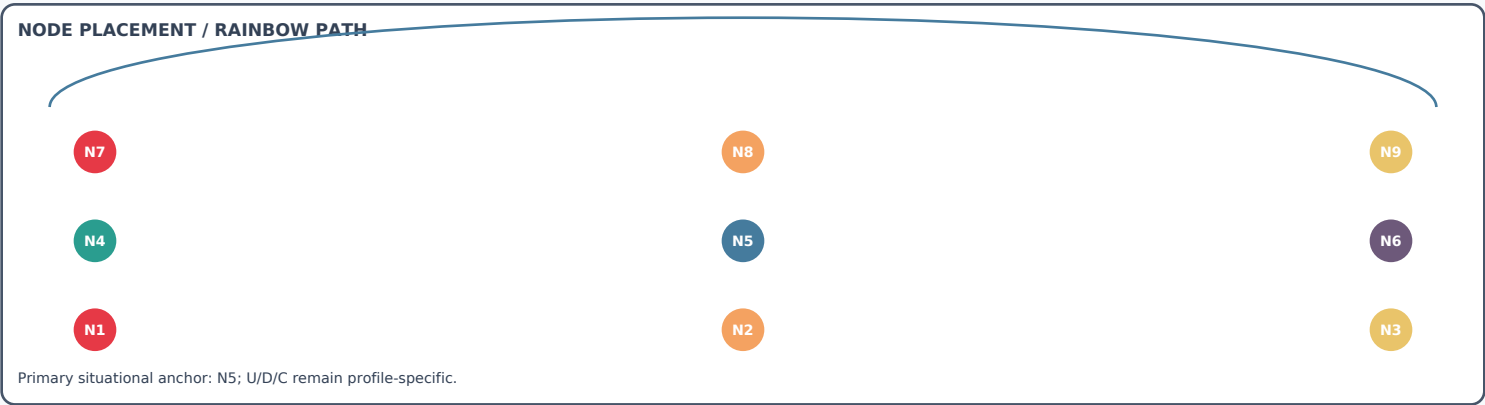
Object role: Internal non-transferable capital-reflection object. Authority flag: False. The object carries typed state, provenance, evidence, and relationships but cannot authorize itself or enlarge its own scope.

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.SHIVAS_INTERNAL_REFLECTION_G
reference "BP-0BJ-009"
state R -> R1
node N1
representation JP(BP-0BJ-009)
physics MK(classify, units, boundary, uncertainty)
verify JO(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Object role: Internal non-transferable capital-reflection object. Authority flag: False. The object carries typed state,
```



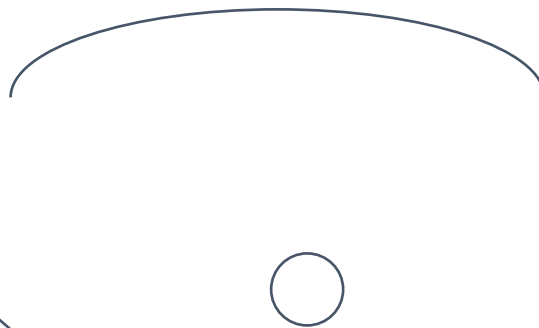
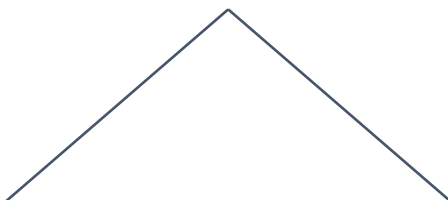
R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Object role: Temporal difference object. Authority flag: False. The object carries typed state, provenance, evidence, and relationships but cannot authorize itself or enlarge its own scope.

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.CHI_VARIANCE_OBJECT_Governed
reference "BP-OBJ-010"
state R -> R1
node N5
representation JP(BP-OBJ-010)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Object role: Temporal difference object. Authority flag: False. The object carries typed state, provenance, evidence, an
```

NODE PLACEMENT / RAINBOW PATH



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Object role: Uncertainty interval state. Authority flag: False. The object carries typed state, provenance, evidence, and relationships but cannot authorize itself or enlarge its own scope.

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.WATER_INTERVAL_STATE_Governe
reference "BP-0BJ-011"
state R -> R1
node N1
representation JP(BP-0BJ-011)
physics MK(classify, units, boundary, uncertainty)
verify JO(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Object role: Uncertainty interval state. Authority flag: False. The object carries typed state, provenance, evidence, an
```

NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Object role: Public verification of founder signature over a bounded content root. Authority flag: False. The object carries typed state, provenance, evidence, and relationships but cannot authorize itself or enlarge its own scope.

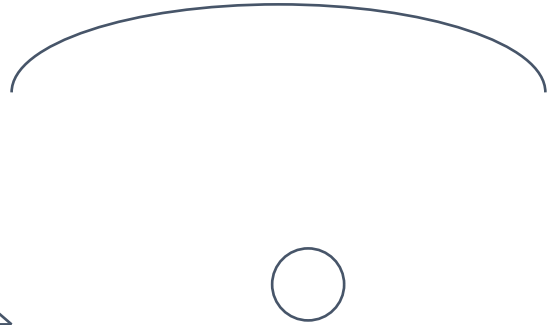
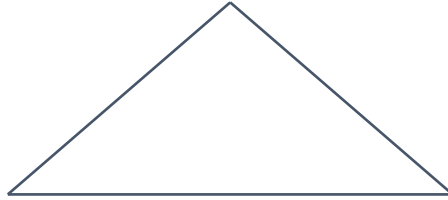
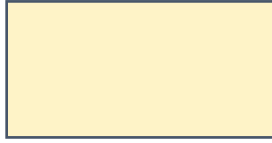
PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PASSKEY_PUBLIC_RECEIPT_Gover
reference "BP-OBJ-012"
state R -> R1
node N1
representation JP(BP-OBJ-012)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Object role: Public verification of founder signature over a bounded content root. Authority flag: False. The object car
```

NODE PLACEMENT / RAINBOW PATH



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Object role: Legacy stable ID for a pearl-shaped hypothetical simulation and information-retention object; never a physical container. Authority flag: False. The object carries typed state, provenance, evidence, and relationships but cannot authorize itself or enlarge its own scope.

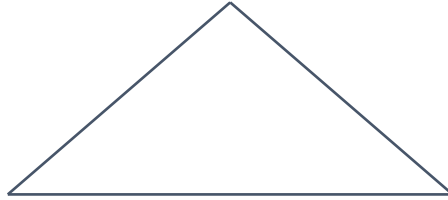
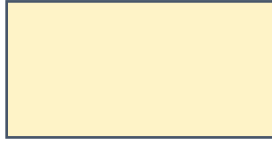
PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PEARL_VARIANCE_CONTAINER_Gov
reference "BP-0BJ-013"
state R -> R1
node N1
representation JP(BP-0BJ-013)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Object role: Legacy stable ID for a pearl-shaped hypothetical simulation and information-retention object; never a physi
```


NODE PLACEMENT / RAINBOW PATH



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Object role: M3/JO receipt for simulated Pearl allocation, scenario capacity, source, destination, and lifecycle state; no physical effect. Authority flag: False. The object carries typed state, provenance, evidence, and relationships but cannot authorize itself or enlarge its own scope.

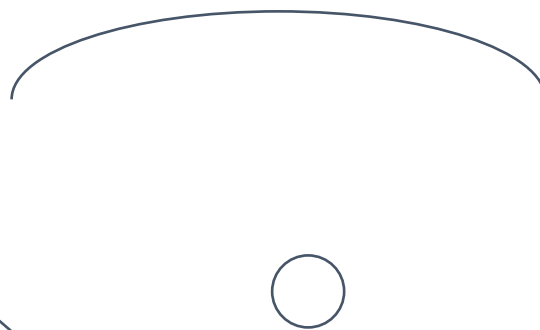
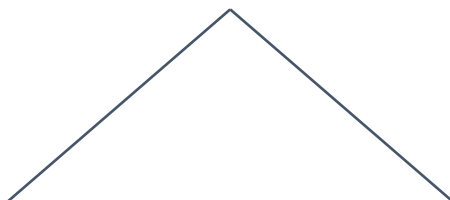
PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PEARL_ALLOCATION_RECEIPT_Gov
reference "BP-0BJ-014"
state R -> R1
node N9
representation JP(BP-0BJ-014)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Object role: M3/J0 receipt for simulated Pearl allocation, scenario capacity, source, destination, and lifecycle state;
```


NODE PLACEMENT / RAINBOW PATH



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Object role: Mermaid/Shiva record of Pearl simulation scenarios, quantities, costs, implications, and regeneration opportunities under MJ. Authority flag: False. The object carries typed state, provenance, evidence, and relationships but cannot authorize itself or enlarge its own scope.

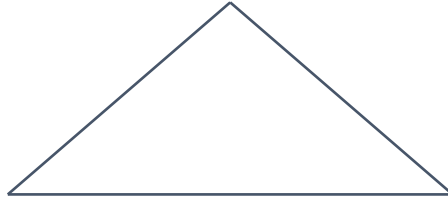
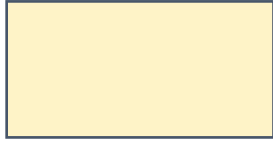
PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PEARL_SYMPOSIUM_REGISTRY_Gov
reference "BP-0BJ-016"
state R -> R1
node N1
representation JP(BP-0BJ-016)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Object role: Mermaid/Shiva record of Pearl simulation scenarios, quantities, costs, implications, and regeneration oppor
```

NODE PLACEMENT / RAINBOW PATH



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

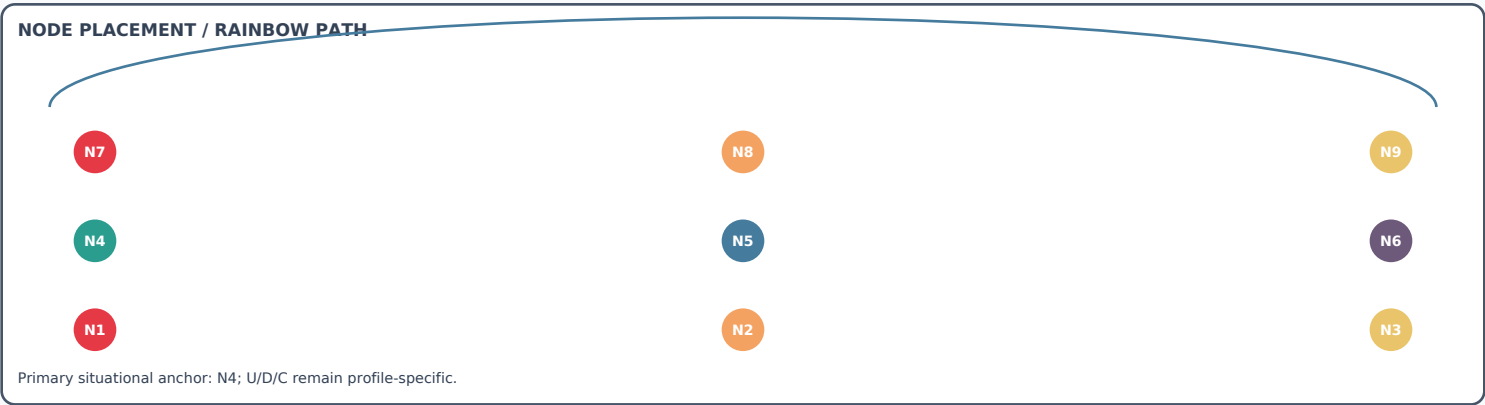
Object role: Governed spreadsheet-like workbook with immutable revisions, typed cells, dependency graph, and authority scopes. Authority flag: False. The object carries typed state, provenance, evidence, and relationships but cannot authorize itself or enlarge its own scope.

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Bangel_SHEET_Governed_Object
reference "BP-0BJ-017"
state R -> R1
node N1
representation JP(BP-0BJ-017)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Object role: Governed spreadsheet-like workbook with immutable revisions, typed cells, dependency graph, and authority s
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Object role: Typed measurement cell with value, unit, uncertainty, formula, evidence, lineage, and revision. Authority flag: False. The object carries typed state, provenance, evidence, and relationships but cannot authorize itself or enlarge its own scope.

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Bangel_SHEET_CELL_Governed_0
reference "BP-Obj-018"
state R -> R1
node N4
representation JP(BP-Obj-018)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Object role: Typed measurement cell with value, unit, uncertainty, formula, evidence, lineage, and revision. Authority f
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Object role: Content-addressed immutable workbook revision and conflict/merge evidence. Authority flag: False. The object carries typed state, provenance, evidence, and relationships but cannot authorize itself or enlarge its own scope.

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Bangel_SHEET_REVISION_Govern
reference "BP-OBJ-019"
state R -> R1
node N1
representation JP(BP-OBJ-019)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Object role: Content-addressed immutable workbook revision and conflict/merge evidence. Authority flag: False. The objec
```

NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Object role: Complete audit record for critical spreadsheet edits, formulas, recomputation, and reports. Authority flag: False. The object carries typed state, provenance, evidence, and relationships but cannot authorize itself or enlarge its own scope.

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```

module MJ.Rainbow.Bangel _SHEET_AUDIT_PARTICLE_
reference "BP-OBJ-020"
state R -> R1
node N1
representation JP(BP-OBJ-020)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Object role: Complete audit record for critical spreadsheet edits, formulas, recomputation, and reports. Authority flag:
    
```

NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MI permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Object role: Portfolio envelope binding JP-origin product logic through MK physics, JO proof, and MJ permit. Authority flag: False. The object carries typed state, provenance, evidence, and relationships but cannot authorize itself or enlarge its own scope.

PATH OF EXPRESSION

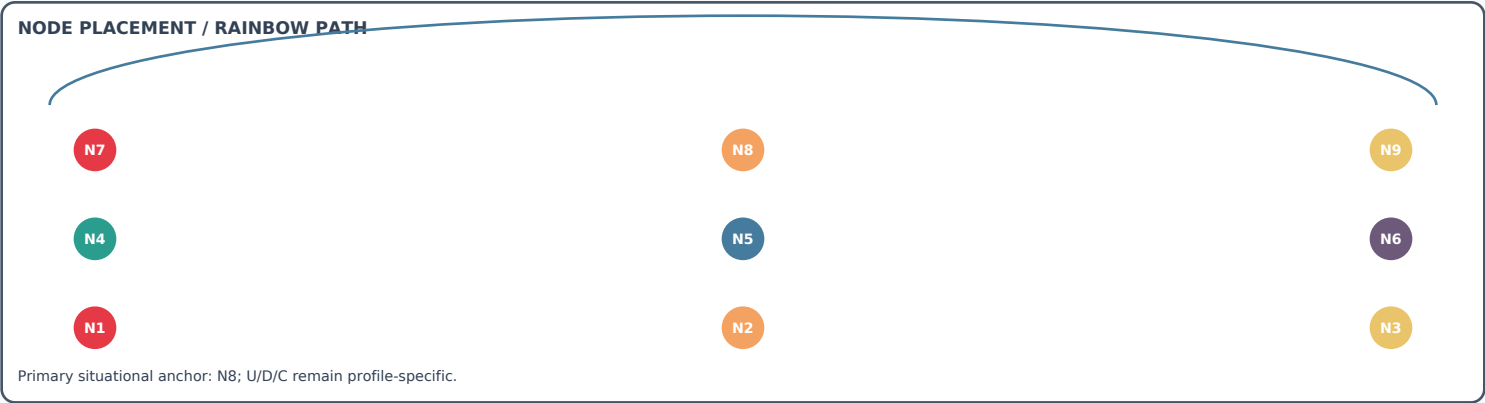
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```

module MJ.Rainbow.JPOS MJ_PRODUCT_ENVELOPE_Gove
reference "BP-0BJ-021"
state R -> R1
node N1
representation JP(BP-0BJ-021)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Object role: Portfolio envelope binding JP-origin product logic through MK physics, J0 proof, and MJ permit. Authority f

```

R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Object role: Pre-Pearl physical umbrella/descent/containment profile with normalized topology and profile-specific unknown physical size/capacity. Authority flag: False. The object carries typed state, provenance, evidence, and relationships but cannot authorize itself or enlarge its own scope.

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.SISTER_PHYSICAL_CONTAINMENT_
reference "BP-0BJ-022"
state R -> R1
node N8
representation JP(BP-0BJ-022)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Object role: Pre-Pearl physical umbrella/descent/containment profile with normalized topology and profile-specific unkno
```

NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Object role: Typed scale-independent rectangle/cone/umbrella/descent/EVE/reservoir geometry and modification parameters. Authority flag: False. The object carries typed state, provenance, evidence, and relationships but cannot authorize itself or enlarge its own scope.

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```

module MJ.Rainbow.STANDARD_CONTAINMENT_GEOMETR
reference "BP-OBJ-023"
state R -> R1
node N1
representation JP(BP-OBJ-023)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Object role: Typed scale-independent rectangle/cone/umbrella/descent/EVE/reservoir geometry and modification parameters.
    
```

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Object role: H2 equation/reference profile for density, equivalent volume, observed gas height, and motion calculations; no physical use authority. Authority flag: False. The object carries typed state, provenance, evidence, and relationships but cannot authorize itself or enlarge its own scope.

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.REFERENCE_GAS_PROFILE_H2_Gov
reference "BP-OBJ-024"
state R -> R1
node N1
representation JP(BP-OBJ-024)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Object role: H2 equation/reference profile for density, equivalent volume, observed gas height, and motion calculations;
```

NODE PLACEMENT / RAINBOW PATH



Primary situational anchor: N1; U/D/C remain profile-specific.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Object role: Recalculation and revalidation receipt for command/profile-specific geometry changes. Authority flag: False. The object carries typed state, provenance, evidence, and relationships but cannot authorize itself or enlarge its own scope.

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.CONTAINMENT_MODIFICATION_REC
reference "BP-0BJ-025"
state R -> R1
node N1
representation JP(BP-0BJ-025)
physics MK(classify, units, boundary, uncertainty)
verify JO(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Object role: Recalculation and revalidation receipt for command/profile-specific geometry changes. Authority flag: False
```

NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MI permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Object role: Hypothetical information coordinate at the top-of-cone observation plane; no physical placement. Authority flag: False. The object carries typed state, provenance, evidence, and relationships but cannot authorize itself or enlarge its own scope.

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.CONE_TOP_PEARL_ANCHOR_Govern
reference "BP-0BJ-026"
state R -> R1
node N3
representation JP(BP-0BJ-026)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Object role: Hypothetical information coordinate at the top-of-cone observation plane; no physical placement. Authority
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Object role: Calibrated pressure/temperature/density/height/time observation for gas-front reference calculations. Authority flag: False. The object carries typed state, provenance, evidence, and relationships but cannot authorize itself or enlarge its own scope.

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.GAS_HEIGHT_OBSERVATION_Gover
reference "BP-OBJ-027"
state R -> R1
node N1
representation JP(BP-OBJ-027)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Object role: Calibrated pressure/temperature/density/height/time observation for gas-front reference calculations. Autho
```

NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Object role: Typed rear outlet, external reservoir, and circular reentry geometry/profile.. Authority flag: False. The object carries typed state, provenance, evidence, and relationships but cannot authorize itself or enlarge its own scope.

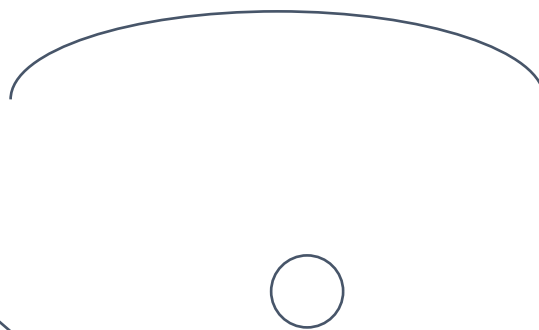
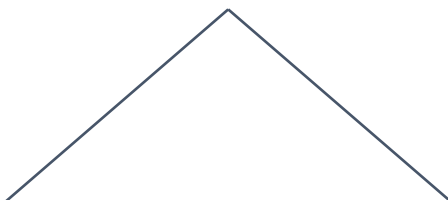
PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.RESERVOIR_RETURN_LOOP_PROFIL
reference "BP-OBJ-028"
state R -> R1
node N1
representation JP(BP-OBJ-028)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Object role: Typed rear outlet, external reservoir, and circular reentry geometry/profile.. Authority flag: False. The o
```

NODE PLACEMENT / RAINBOW PATH



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

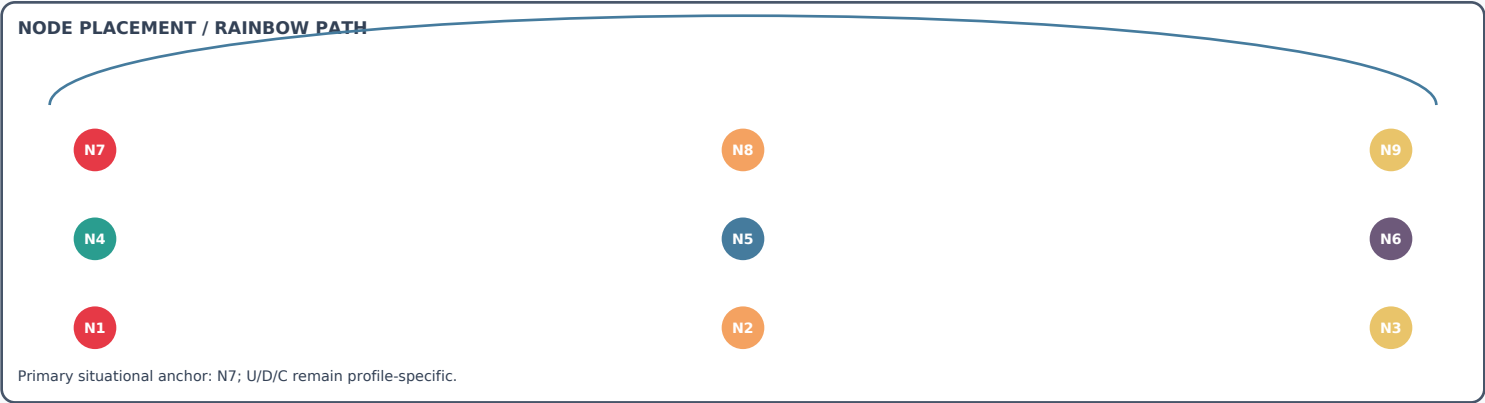
Object role: JO/MK proof that the outlet path remains outside the nonphysical Pearl reference circle.. Authority flag: False. The object carries typed state, provenance, evidence, and relationships but cannot authorize itself or enlarge its own scope.

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.OUTWARD_GAP_PATH_RECEIPT_Gov
reference "BP-0BJ-029"
state R -> R1
node N1
representation JP(BP-0BJ-029)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Object role: J0/MK proof that the outlet path remains outside the nonphysical Pearl reference circle.. Authority flag: F
```

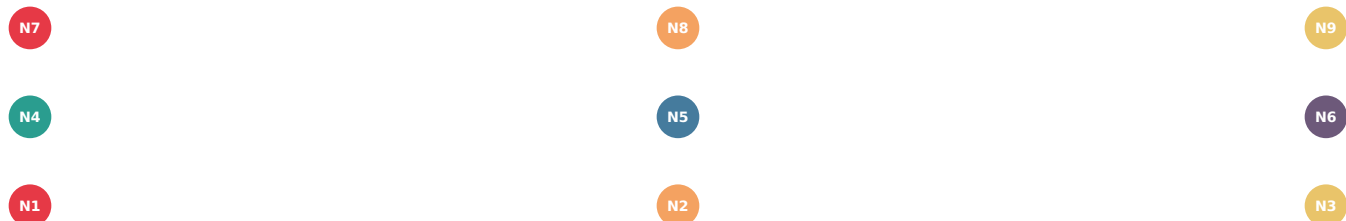
R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Object role: EVE/Mermaid typed balance of admitted, returned, drained, escaped, and retained quantities.. Authority flag: False. The object carries typed state, provenance, evidence, and relationships but cannot authorize itself or enlarge its own scope.

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.RESERVOIR_BUFFER_ACCOUNT_Gov
reference "BP-0BJ-030"
state R -> R1
node N7
representation JP(BP-0BJ-030)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Object role: EVE/Mermaid typed balance of admitted, returned, drained, escaped, and retained quantities.. Authority flag
```

NODE PLACEMENT / RAINBOW PATH



Primary situational anchor: N1; U/D/C remain profile-specific.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Object role: Circular port, inward angle, tangential component, continuity, and spiral-compatibility evidence.. Authority flag: False. The object carries typed state, provenance, evidence, and relationships but cannot authorize itself or enlarge its own scope.

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.CIRCULAR_REENTRY_RECEIPT_Gov
reference "BP-0BJ-031"
state R -> R1
node N1
representation JP(BP-0BJ-031)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Object role: Circular port, inward angle, tangential component, continuity, and spiral-compatibility evidence.. Authorit
```

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Object role: MK/JO/Mermaid record of frame-relative velocity, dissipation, and any bounded recoverable-energy claim.. Authority flag: False. The object carries typed state, provenance, evidence, and relationships but cannot authorize itself or enlarge its own scope.

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.RELATIVE_FRAME_FRICTION_LEDG
reference "BP-0BJ-032"
state R -> R1
node N1
representation JP(BP-0BJ-032)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Object role: MK/JO/Mermaid record of frame-relative velocity, dissipation, and any bounded recoverable-energy claim.. Au
```

NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Object role: Bounded post-containment buffer candidate for retention, redistribution, and receipted re-entry. Authority flag: False. The object carries typed state, provenance, evidence, and relationships but cannot authorize itself or enlarge its own scope.

PATH OF EXPRESSION

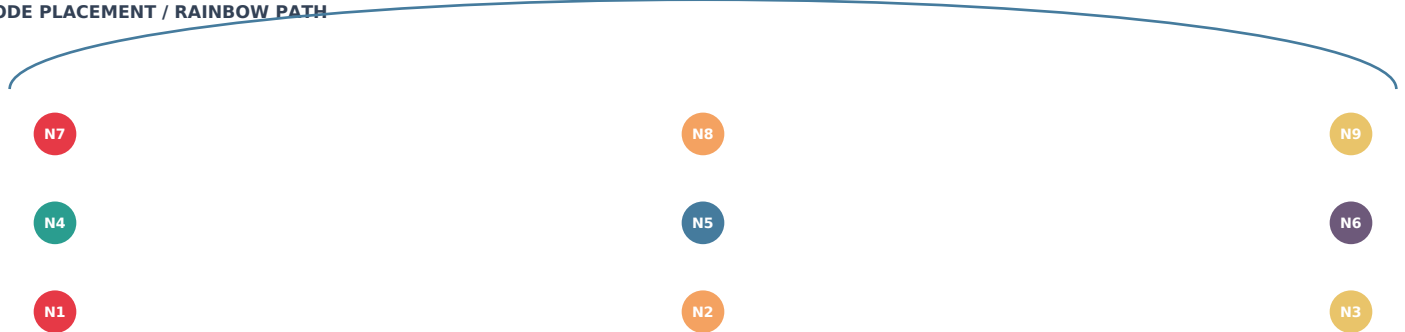
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```

module MJ.Rainbow.RESERVOIR_LAKE_BUFFER_Govern
reference "BP-OBJ-033"
state R -> R1
node N1
representation JP(BP-OBJ-033)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Object role: Bounded post-containment buffer candidate for retention, redistribution, and receipted re-entry. Authority
    
```


NODE PLACEMENT / RAINBOW PATH



Primary situational anchor: N1; U/D/C remain profile-specific.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Object role: Outward-facing angular reference through which the outlet clears the nonphysical Pearl reference circle. Authority flag: False. The object carries typed state, provenance, evidence, and relationships but cannot authorize itself or enlarge its own scope.

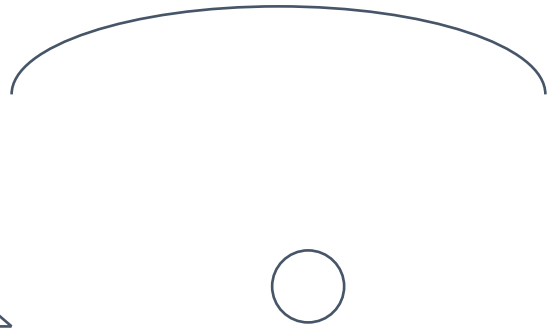
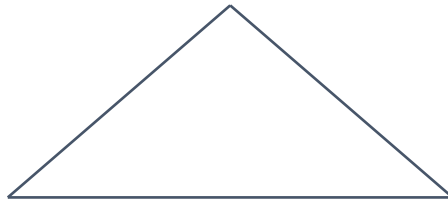
PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.OUTWARD_GAP_ARC_Governed_Obj
reference "BP-0BJ-035"
state R -> R1
node N1
representation JP(BP-0BJ-035)
physics MK(classify, units, boundary, uncertainty)
verify JO(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Object role: Outward-facing angular reference through which the outlet clears the nonphysical Pearl reference circle. A
```

NODE PLACEMENT / RAINBOW PATH



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Object role: Hypothetical simulation/measurement circle used for path-clearance calculations; no physical wall or capacity. Authority flag: False. The object carries typed state, provenance, evidence, and relationships but cannot authorize itself or enlarge its own scope.

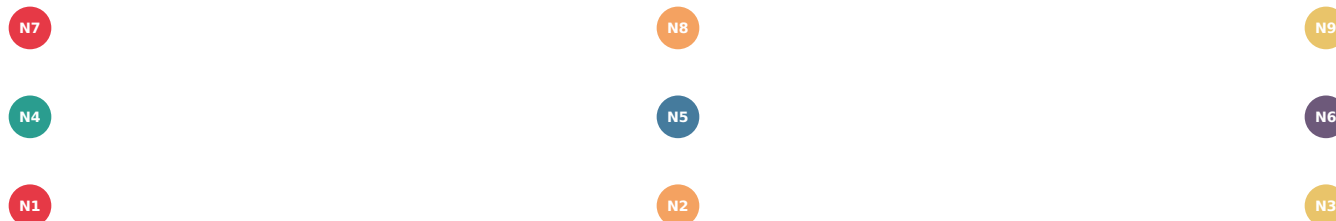
PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PEARL_REFERENCE_CIRCLE_Gover
reference "BP-0BJ-036"
state R -> R1
node N1
representation JP(BP-0BJ-036)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Object role: Hypothetical simulation/measurement circle used for path-clearance calculations; no physical wall or capaci
```

NODE PLACEMENT / RAINBOW PATH



Primary situational anchor: N1; U/D/C remain profile-specific.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Object role: Circular inward-angled port candidate supplying measured radial and tangential re-entry components. Authority flag: False. The object carries typed state, provenance, evidence, and relationships but cannot authorize itself or enlarge its own scope.

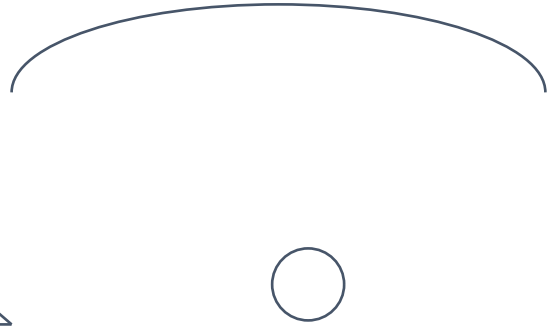
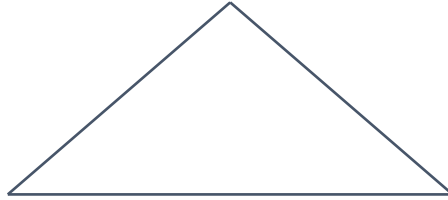
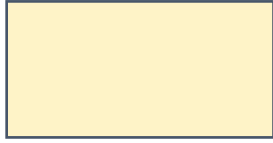
PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> IQ evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.CIRCULAR_REENTRY_PORT_Govern
reference "BP-0BJ-037"
state R -> R1
node N1
representation JP(BP-0BJ-037)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Object role: Circular inward-angled port candidate supplying measured radial and tangential re-entry components. Authori
```


NODE PLACEMENT / RAINBOW PATH



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Object role: Per-transaction outlet/lake/re-entry/cycle/participant evidence receipt. Authority flag: False. The object carries typed state, provenance, evidence, and relationships but cannot authorize itself or enlarge its own scope.

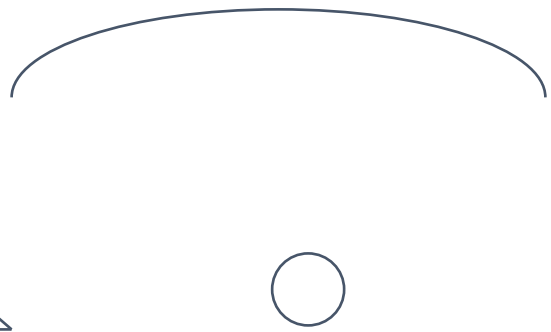
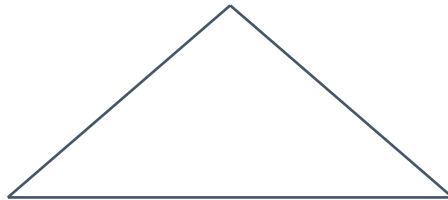
PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.RESERVOIR_TRANSFER_RECEIPT_G
reference "BP-0BJ-038"
state R -> R1
node N6
representation JP(BP-0BJ-038)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Object role: Per-transaction outlet/lake/re-entry/cycle/participant evidence receipt. Authority flag: False. The object
```

NODE PLACEMENT / RAINBOW PATH



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Object role: Separates coordinate-transform residual, physical dissipation, and information friction. Authority flag: False. The object carries typed state, provenance, evidence, and relationships but cannot authorize itself or enlarge its own scope.

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PERSPECTIVE_FRICTION_RECEIPT
reference "BP-0BJ-039"
state R -> R1
node N1
representation JP(BP-0BJ-039)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Object role: Separates coordinate-transform residual, physical dissipation, and information friction. Authority flag: F
```

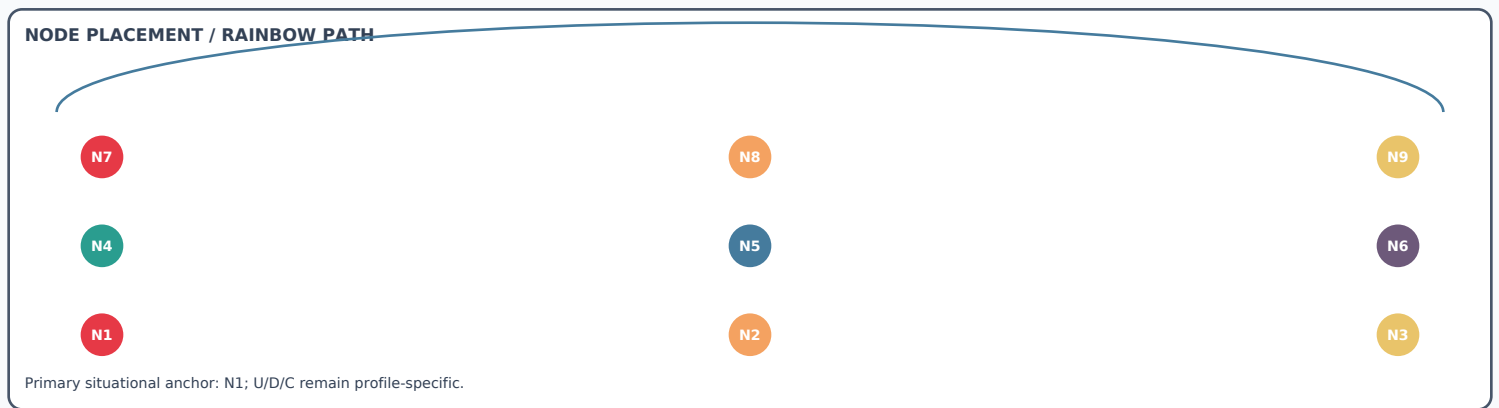


R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Object role: Typed unit of retained element or variance observation. Authority flag: False. The object carries typed state, provenance, evidence, and relationships but cannot authorize itself or enlarge its own scope.

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.DRO_UNIT_Governed_Object
reference "BP-Obj-040"
state R -> R1
node N1
representation JP(BP-Obj-040)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Object role: Typed unit of retained element or variance observation. Authority flag: False. The object carries typed sta
```



R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Object role: Founder-declared scale markers, conservative threshold, and uncertainty. Authority flag: False. The object carries typed state, provenance, evidence, and relationships but cannot authorize itself or enlarge its own scope.

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.DRO_SCALE_ENVELOPE_Governed_
reference "BP-0BJ-041"
state R -> R1
node N1
representation JP(BP-0BJ-041)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Object role: Founder-declared scale markers, conservative threshold, and uncertainty. Authority flag: False. The object
```

NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Object role: Source, unit, quantity, scale, lineage, state, and evidence receipt.
Authority flag: False. The object carries typed state, provenance, evidence, and relationships but cannot authorize itself or enlarge its own scope.

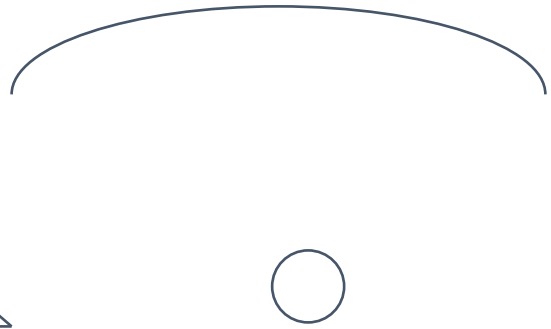
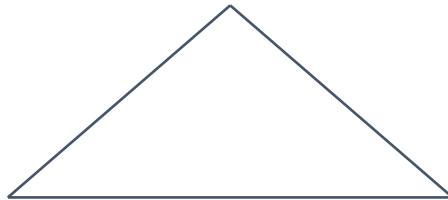
PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.DRO_COLLECTION_RECEIPT_Gover
reference "BP-0BJ-042"
state R -> R1
node N1
representation JP(BP-0BJ-042)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Object role: Source, unit, quantity, scale, lineage, state, and evidence receipt. Authority flag: False. The object carries
```

NODE PLACEMENT / RAINBOW PATH



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Object role: Measured wavelength, frequency, power, coupling, and uncertainty profile. Authority flag: False. The object carries typed state, provenance, evidence, and relationships but cannot authorize itself or enlarge its own scope.

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.DRO_OPTICAL_EVIDENCE_PROFILE
reference "BP-0BJ-043"
state R -> R1
node N1
representation JP(BP-0BJ-043)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Object role: Measured wavelength, frequency, power, coupling, and uncertainty profile. Authority flag: False. The object
```

NODE PLACEMENT / RAINBOW PATH



Primary situational anchor: N1; U/D/C remain profile-specific.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Object role: Conservation and allocation record for DRO records entering a Pearl node. Authority flag: False. The object carries typed state, provenance, evidence, and relationships but cannot authorize itself or enlarge its own scope.

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.DRO_PEARL_HANDOFF_RECEIPT_Go
reference "BP-0BJ-044"
state R -> R1
node N1
representation JP(BP-0BJ-044)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Object role: Conservation and allocation record for DRO records entering a Pearl node. Authority flag: False. The object
```

NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Object role: Computational node for DRO and other typed element representations. Authority flag: False. The object carries typed state, provenance, evidence, and relationships but cannot authorize itself or enlarge its own scope.

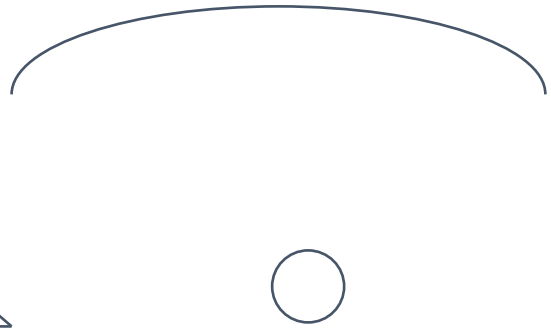
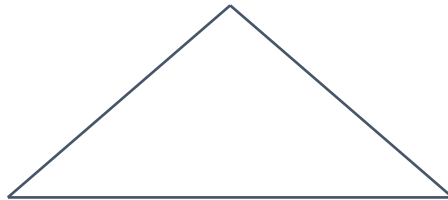
PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PEARL_DR0_NODE_Governed_Obje
reference "BP-0BJ-045"
state R -> R1
node N1
representation JP(BP-0BJ-045)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Object role: Computational node for DR0 and other typed element representations. Authority flag: False. The object carri
```


NODE PLACEMENT / RAINBOW PATH



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Object role: Typed start-energy and restart-reserve account. Authority flag: False. The object carries typed state, provenance, evidence, and relationships but cannot authorize itself or enlarge its own scope.

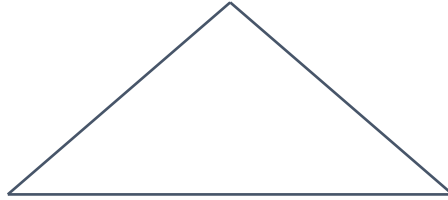
PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.DR0_START_ENERGY_PACKET_Gove
reference "BP-0BJ-046"
state R -> R1
node N5
representation JP(BP-0BJ-046)
physics MK(classify, units, boundary, uncertainty)
verify JO(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Object role: Typed start-energy and restart-reserve account. Authority flag: False. The object carries typed state, pro
```

NODE PLACEMENT / RAINBOW PATH



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Object role: Non-operational request object for start-readiness evaluation.
Authority flag: False. The object carries typed state, provenance, evidence, and relationships but cannot authorize itself or enlarge its own scope.

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.DRO_IGNITION_REQUEST_Governe
reference "BP-0BJ-047"
state R -> R1
node N1
representation JP(BP-0BJ-047)
physics MK(classify, units, boundary, uncertainty)
verify JO(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Object role: Non-operational request object for start-readiness evaluation. Authority flag: False. The object carries ty
```

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Object role: Original image digest, metadata, signal, and source-lineage record. Authority flag: False. The object carries typed state, provenance, evidence, and relationships but cannot authorize itself or enlarge its own scope.

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.LECANTO_IMAGE_EVIDENCE_Gover
reference "BP-OBJ-048"
state R -> R1
node N1
representation JP(BP-OBJ-048)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Object role: Original image digest, metadata, signal, and source-lineage record. Authority flag: False. The object carri
```

Node Placement / Rainbow Path



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Object role: Bounded image-intent hypothesis with uncertainty and no truth authority. Authority flag: False. The object carries typed state, provenance, evidence, and relationships but cannot authorize itself or enlarge its own scope.

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

module MJ.Rainbow.LECANTO_INTENT_HYPOTHESIS_Go
reference "BP-0BJ-049"
state R -> R1
node N1
representation JP(BP-0BJ-049)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
Object role: Bounded image-intent hypothesis with uncertainty and no truth authority. Authority flag: False. The object

NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Object role: Source-preserving derivative and disclosure record. Authority flag: False. The object carries typed state, provenance, evidence, and relationships but cannot authorize itself or enlarge its own scope.

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```

module MJ.Rainbow.LECANTO_TRANSFORMATION_RECEI
reference "BP-OBJ-050"
state R -> R1
node N9
representation JP(BP-OBJ-050)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Object role: Source-preserving derivative and disclosure record. Authority flag: False. The object carries typed state,
```

NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Object role: Spatial, color, spectral, compression, and registration residuals.
Authority flag: False. The object carries typed state, provenance, evidence, and relationships but cannot authorize itself or enlarge its own scope.

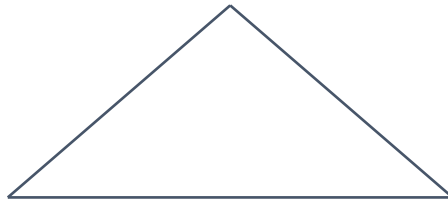
PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.IMAGE_VARIANCE_RECEIPT_Gover
reference "BP-0BJ-051"
state R -> R1
node N1
representation JP(BP-0BJ-051)
physics MK(classify, units, boundary, uncertainty)
verify JO(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Object role: Spatial, color, spectral, compression, and registration residuals. Authority flag: False. The object carries
```

NODE PLACEMENT / RAINBOW PATH



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Object role: SC-profile charge, energy, wake, and restart accounting. Authority flag: False. The object carries typed state, provenance, evidence, and relationships but cannot authorize itself or enlarge its own scope.

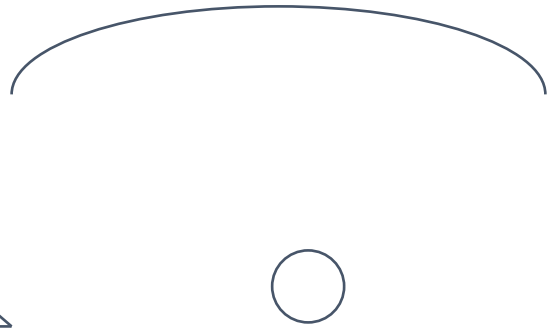
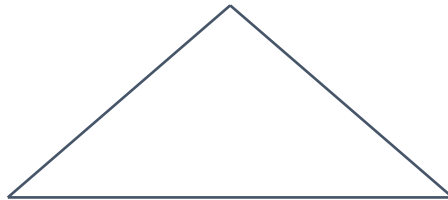
PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.SEMICONDUCTOR_DRO_ENERGY_LED
reference "BP-0BJ-052"
state R -> R1
node N1
representation JP(BP-0BJ-052)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Object role: SC-profile charge, energy, wake, and restart accounting. Authority flag: False. The object carries typed st
```

NODE PLACEMENT / RAINBOW PATH



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Object role: SC-profile computational Pearl node with memory and evidence limits. Authority flag: False. The object carries typed state, provenance, evidence, and relationships but cannot authorize itself or enlarge its own scope.

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.SEMICONDUCTOR_PEARL_NODE_Gov
reference "BP-0BJ-053"
state R -> R1
node N1
representation JP(BP-0BJ-053)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Object role: SC-profile computational Pearl node with memory and evidence limits. Authority flag: False. The object carries
```


NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Purpose: Integrate purpose, mathematics, physics, verification, safety, resource routing, accounting, finance, evidence, and bounded permit decisions. Class: CORE_FRAMEWORK. Parent: MJ. Current status: DAY0_PREPASKEY_COMPLETE_CANDIDATE.

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```

module MJ.Rainbow.MJ_Physics_Based_Measurement
reference "BP-PROD-001"
state R -> R1
node N4
representation JP(BP-PROD-001)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Purpose: Integrate purpose, mathematics, physics, verification, safety, resource routing, accounting, finance, evidence,
```

NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Purpose: Express human purpose, typed measurements, formulas, evidence, and command pathways. Class: LANGUAGE. Parent: MJ. Current status: SPECIFICATION CANDIDATE.

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Bangel_Governed_Measurement_
reference "BP-PROD-002"
state R -> R1
node N1
representation JP(BP-PROD-002)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Purpose: Express human purpose, typed measurements, formulas, evidence, and command pathways. Class: LANGUAGE. Parent: M
```

NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Purpose: Recover and preserve declared meaning without autonomous inference or authority. Class: SEMANTIC_SYSTEM. Parent: MJ. Current status: SPECIFICATION CANDIDATE.

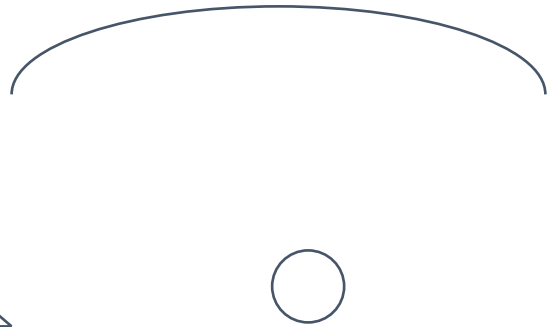
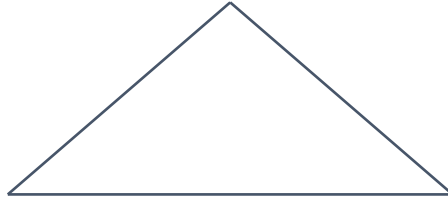
PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Elsa_Deterministic_Semantic_
reference "BP-PROD-003"
state R -> R1
node N1
representation JP(BP-PROD-003)
physics MK(classify, units, boundary, uncertainty)
verify JO(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Purpose: Recover and preserve declared meaning without autonomous inference or authority. Class: SEMANTIC SYSTEM. Parent
```

NODE PLACEMENT / RAINBOW PATH



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Purpose: Represent equations, algorithms, CAPOs, topology, products, and proofs. Class: CANONICAL REPRESENTATION. Parent: MJ. Current status: SPECIFICATION CANDIDATE.

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.JP_Mathematical_and_Architec
reference "BP-PROD-004"
state R -> R1
node N1
representation JP(BP-PROD-004)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Purpose: Represent equations, algorithms, CAPOs, topology, products, and proofs. Class: CANONICAL_REPRESENTATION. Parent
```

NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MI permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Purpose: Create physics representations and verify units, conservation, boundaries, scale, and evidence ceilings. Class: PHYSICS_SYSTEM. Parent: MJ. Current status: REFERENCE IMPLEMENTATION.

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Mika_MK_Physics_Modulator_Sy
reference "BP-PROD-005"
state R -> R1
node N8
representation JP(BP-PROD-005)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Purpose: Create physics representations and verify units, conservation, boundaries, scale, and evidence ceilings. Class:
```

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Purpose: Verify types, units, authority, physics, tests, evidence, and bounded execution. Class: RUNTIME. Parent: MJ. Current status: REFERENCE_IMPLEMENTATION.

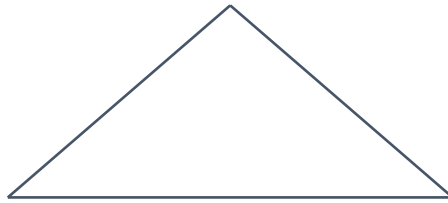
Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.JO_Deterministic_Proof_and_R
reference "BP-PROD-006"
state R -> R1
node N1
representation JP(BP-PROD-006)
physics MK(classify, units, boundary, uncertainty)
verify JO(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Purpose: Verify types, units, authority, physics, tests, evidence, and bounded execution. Class: RUNTIME. Parent: MJ. Cu
```

NODE PLACEMENT / RAINBOW PATH



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Purpose: Provide isolated resources, memory, storage, network, scheduling, and continuity under MJ leases. Class: OPERATING_SYSTEM. Parent: MJ. Current status: SPECIFICATION_CANDIDATE.

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.MJ05_Operating_Substrate_Pro
reference "BP-PROD-007"
state R -> R1
node N1
representation JP(BP-PROD-007)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Purpose: Provide isolated resources, memory, storage, network, scheduling, and continuity under MJ leases. Class: OPERAT
```

NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Purpose: Explore semiconductor-scale static intake, power wake, solar assist, battery, and operating-system integration. Class: PHYSICAL_PRODUCT_CANDIDATE. Parent: JP. Current status: PLANNED_ONLY_NO_PHYSICAL_ARTICLE.

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.JP_Semiconductor_Phone_Batte
reference "BP-PROD-008"
state R -> R1
node N1
representation JP(BP-PROD-008)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Purpose: Explore semiconductor-scale static intake, power wake, solar assist, battery, and operating-system integration.
```


Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Purpose: Explore large-scale static intake, solar initiation, power bus, containment, and marine power integration. Class: PHYSICAL_PRODUCT_CANDIDATE. Parent: JP. Current status: PLANNED_ONLY_UNCLASSIFIED.

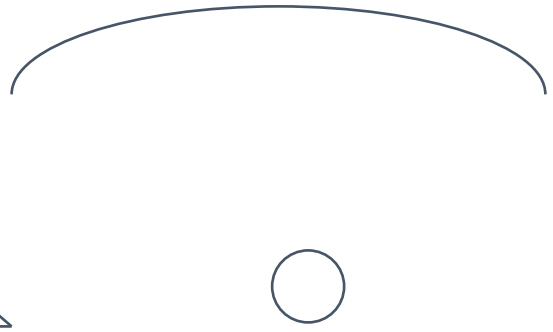
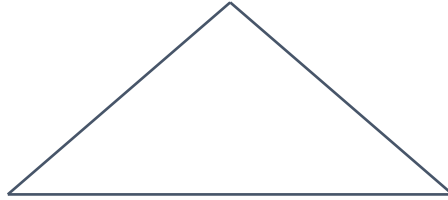
Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.JP_Large_Scale_Boating_Power
reference "BP-PROD-009"
state R -> R1
node N3
representation JP(BP-PROD-009)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Purpose: Explore large-scale static intake, solar initiation, power bus, containment, and marine power integration. Clas
```

NODE PLACEMENT / RAINBOW PATH



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Purpose: Explore peaceful propulsion measurement and control under non-weaponization, safety, and regulatory gates. Class: HIGH_RISK_PHYSICAL_RESEARCH_CANDIDATE. Parent: JP. Current status: PLANNED_ONLY_SAFETY_HOLD.

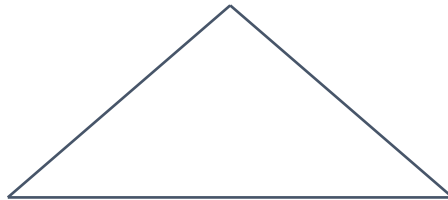
PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.JP_Peaceful_High_Energy_Prop
reference "BP-PROD-010"
state R -> R1
node N1
representation JP(BP-PROD-010)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Purpose: Explore peaceful propulsion measurement and control under non-weaponization, safety, and regulatory gates. Clas
```

NODE PLACEMENT / RAINBOW PATH



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Purpose: Predict demand, allocate buffers, detect anomalies, and stage overflow in bounded umbrellas. Class: PREDICTION_AND_CONTAINMENT. Parent: MJ. Current status: SPECIFICATION_CANDIDATE.

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Sister_Predictive_Containmen
reference "BP-PROD-011"
state R -> R1
node N1
representation JP(BP-PROD-011)
physics MK(classify, units, boundary, uncertainty)
verify JO(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Purpose: Predict demand, allocate buffers, detect anomalies, and stage overflow in bounded umbrellas. Class: PREDICTION
```

Node Placement / Rainbow Path



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Purpose: Account for variance, evaporation, leakage, capture, and natural egress without silent loss. Class: MEASUREMENT_SYSTEM. Parent: MJ. Current status: SPECIFICATION_CANDIDATE.

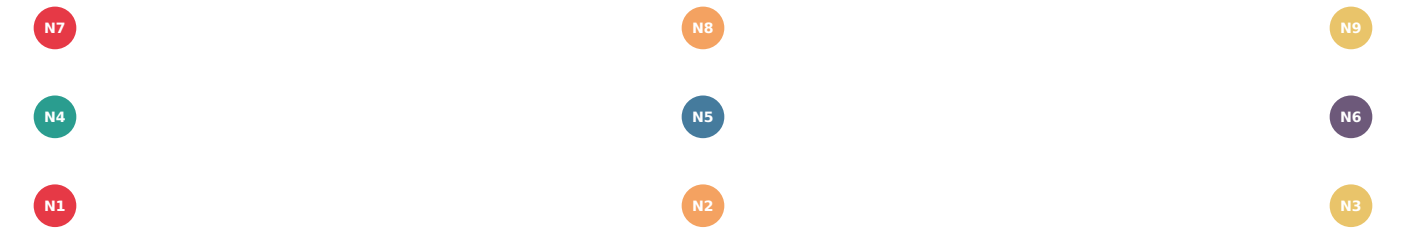
Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.EVE_Variance_Screen_and_Egre
reference "BP-PROD-012"
state R -> R1
node N1
representation JP(BP-PROD-012)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Purpose: Account for variance, evaporation, leakage, capture, and natural egress without silent loss. Class: MEASUREMENT
```

NODE PLACEMENT / RAINBOW PATH



Primary situational anchor: N7; U/D/C remain profile-specific.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Purpose: Provide domain-bounded telemetry, hold, denial, isolation, and corrective protocols. Class: SAFETY_SYSTEM. Parent: MJ. Current status: SPECIFICATION_CANDIDATE.

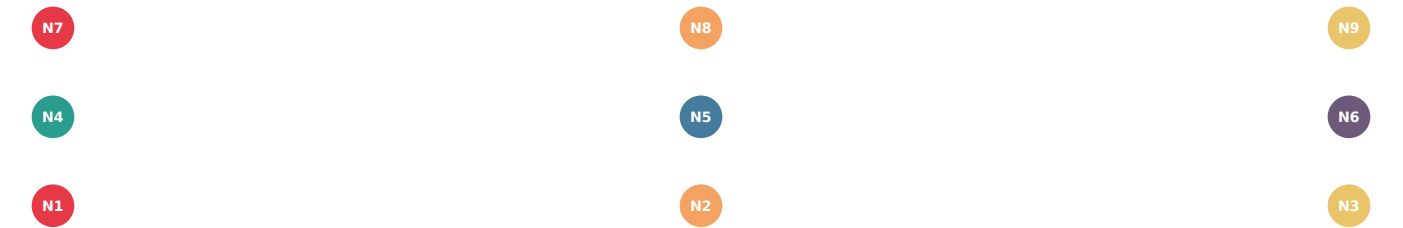
PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Angels_Safety_and_Corrective
reference "BP-PROD-013"
state R -> R1
node N7
representation JP(BP-PROD-013)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Purpose: Provide domain-bounded telemetry, hold, denial, isolation, and corrective protocols. Class: SAFETY_SYSTEM. Pare
```

NODE PLACEMENT / RAINBOW PATH



Primary situational anchor: N1; U/D/C remain profile-specific.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Purpose: Maintain balances, custody evidence, exposure, tax lots, statements, and reconciliation. Class: ACCOUNTING_SYSTEM. Parent: MJ. Current status: SPECIFICATION_CANDIDATE.

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Mermaid_Accounting_and_Recon
reference "BP-PROD-014"
state R -> R1
node N1
representation JP(BP-PROD-014)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Purpose: Maintain balances, custody evidence, exposure, tax lots, statements, and reconciliation. Class: ACCOUNTING_SYST
```

NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Purpose: Separate stability/cash functions from investment and crypto risk while preserving liquidity-first ethics. Class: FINANCIAL_REFERENCE_SYSTEM. Parent: MJ. Current status: INTERNAL_MODEL_EXTERNAL_DISABLED.

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

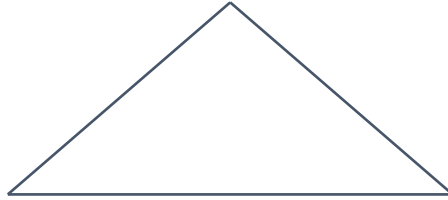
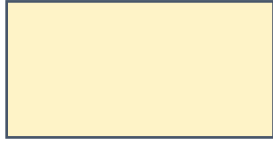
CODE / MATH / PROCESS REPRESENTATION

```

module MJ.Rainbow.Shiva_Dual_Financial_Rails_P
reference "BP-PROD-015"
state R -> R1
node N1
representation JP(BP-PROD-015)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Purpose: Separate stability/cash functions from investment and crypto risk while preserving liquidity-first ethics. Clas

```

NODE PLACEMENT / RAINBOW PATH



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Purpose: Represent internal capital reflections without minting, redemption, public offer, or value guarantee. Class: CAPITAL_REFLECTION_OBJECT. Parent: SHIVA. Current status: NONTRANSFERABLE NO MONETARY VALUE.

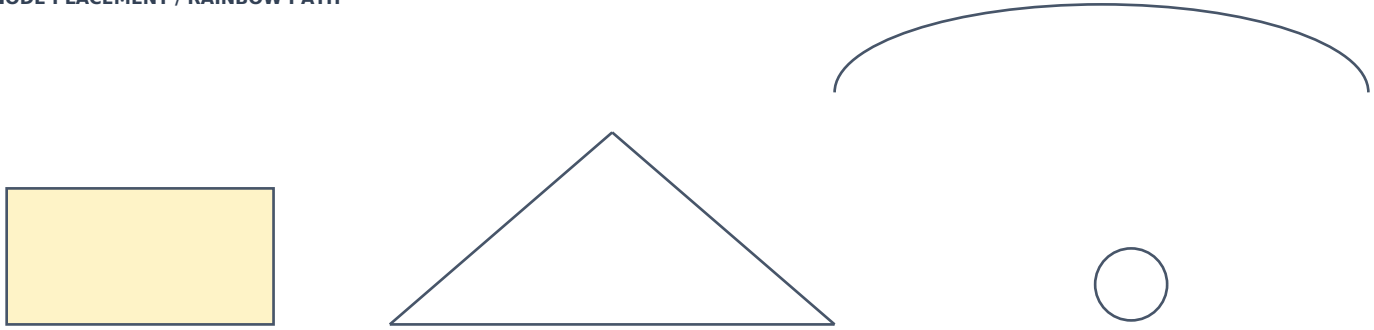
PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.SHIVAS_Internal_Settlement_R
reference "BP-PROD-016"
state R -> R1
node N1
representation JP(BP-PROD-016)
physics MK(classify, units, boundary, uncertainty)
verify JO(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Purpose: Represent internal capital reflections without minting, redemption, public offer, or value guarantee. Class: CA
```


NODE PLACEMENT / RAINBOW PATH



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

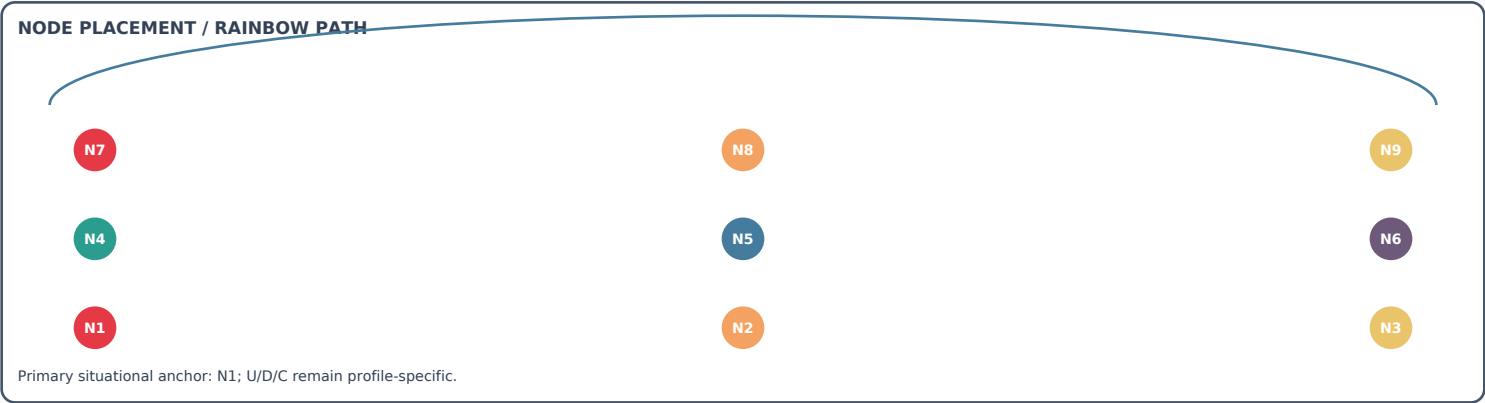
Purpose: Model a separately governed external crypto rail subject to full classification and authorization. Class: EXTERNAL_FINANCIAL_CANDIDATE. Parent: SHIVA. Current status: DISABLED_ACTIVE_HOLD.

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Shiva_Crypto_External_Market
reference "BP-PROD-017"
state R -> R1
node N2
representation JP(BP-PROD-017)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Purpose: Model a separately governed external crypto rail subject to full classification and authorization. Class: EXTER
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Purpose: Model transparent price-time, custody, audit, tax, and transfer rules without operating a market. Class: MARKET_REFERENCE_MODEL. Parent: SHIVA. Current status: INTERNAL_SIMULATION_ONLY.

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Shiva_Exchange_Rule_Referenc
reference "BP-PROD-018"
state R -> R1
node N1
representation JP(BP-PROD-018)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Purpose: Model transparent price-time, custody, audit, tax, and transfer rules without operating a market. Class: MARKET
```

NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Purpose: Present governed applications, evidence, holds, and uncertainty.
Class: APPLICATION_PRODUCT. Parent: MJ. Current status:
REFERENCE_CANDIDATE.

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Moana_Governed_Browser_Produ
reference "BP-PROD-019"
state R -> R1
node N1
representation JP(BP-PROD-019)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Purpose: Present governed applications, evidence, holds, and uncertainty. Class: APPLICATION_PRODUCT. Parent: MJ. Current
```

NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

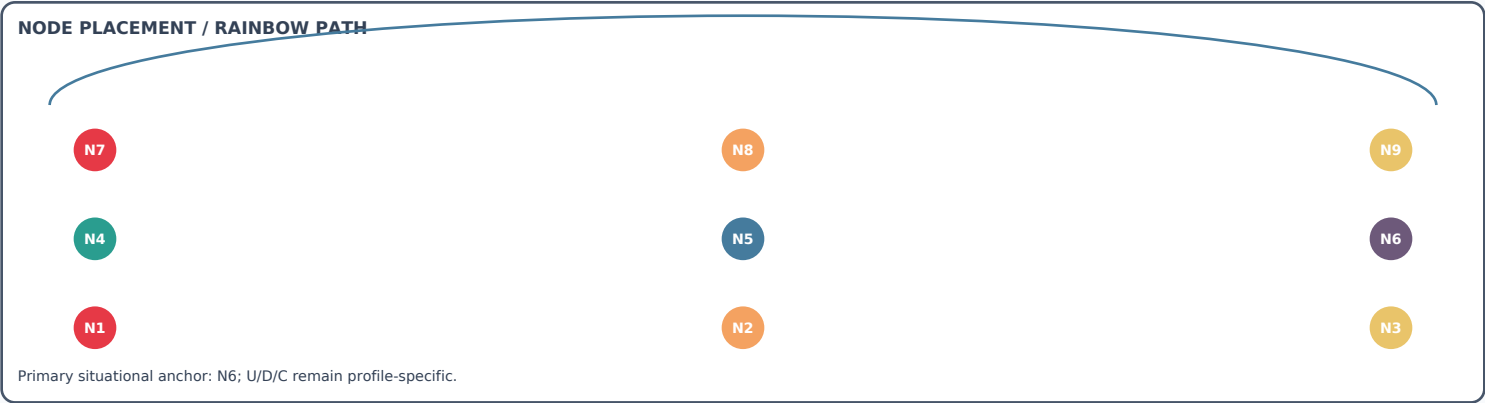
Purpose: Organize spaces, projects, decisions, knowledge, members, roles, and capabilities. Class: APPLICATION_PRODUCT. Parent: MJ. Current status: REFERENCE_CANDIDATE.

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Aviator_Organizational_Works
reference "BP-PROD-020"
state R -> R1
node N1
representation JP(BP-PROD-020)
physics MK(classify, units, boundary, uncertainty)
verify JO(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Purpose: Organize spaces, projects, decisions, knowledge, members, roles, and capabilities. Class: APPLICATION_PRODUCT.
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Purpose: Display system truth, provenance, topology, uncertainty, and evidence. Class: VISUAL_SYSTEM. Parent: MJ. Current status: REFERENCE_CANDIDATE.

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Lecanto_Truthful_Visualizati
reference "BP-PROD-021"
state R -> R1
node N6
representation JP(BP-PROD-021)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Purpose: Display system truth, provenance, topology, uncertainty, and evidence. Class: VISUAL_SYSTEM. Parent: MJ. Curren
```

NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Purpose: Coordinate semantic listings, workflow, accounting, execution, and resource evidence without live market authority. Class: MARKETPLACE_REFERENCE. Parent: MJ. Current status: INTERNAL_REFERENCE_ONLY.

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```

module MJ.Rainbow.Elsa_Governed_Marketplace_Re
reference "BP-PROD-022"
state R -> R1
node N1
representation JP(BP-PROD-022)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Purpose: Coordinate semantic listings, workflow, accounting, execution, and resource evidence without live market author
    
```

NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Purpose: Model bounded replicas, failover, continuity, and placement evidence.
Class: INFRASTRUCTURE_REFERENCE. Parent: MJ. Current status:
SPECIFICATION_CANDIDATE.

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Shekina_Distributed_Continui
reference "BP-PROD-023"
state R -> R1
node N1
representation JP(BP-PROD-023)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Purpose: Model bounded replicas, failover, continuity, and placement evidence. Class: INFRASTRUCTURE REFERENCE. Parent:
```

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R Status / Observation

Source Rule / Intent

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Purpose: Acquire, retain, replay, and compare variance simulations and transfer/regeneration opportunities without asserting physical containment. Class: HYPOTHETICAL_SIMULATION_AND_INFORMATION_RETENTION. Parent: MJ. Current status: REFERENCE_SIMULATION_ONLY_PHYSICAL_NOT_APPLICABLE.

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.Pearl_Hypothetical_Simulatio
reference "BP-PROD-024"
state R -> R1
node N1
representation JP(BP-PROD-024)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Purpose: Acquire, retain, replay, and compare variance simulations and transfer/regeneration opportunities without asser
```


NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Purpose: Provide governed spreadsheet-like operational modeling through typed measurement cells, immutable revisions, Pearl simulation partitions, deterministic recalculation, concurrency control, and audit evidence. Class: MEASUREMENT_SPREADSHEET_PLATFORM. Parent: Bangel . Current status: REFERENCE_MVP_PREPASSKEY.

PATH OF EXPRESSION

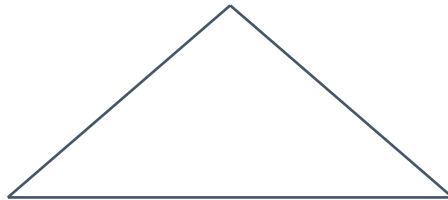
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```

module MJ.Rainbow.Bangel _Spreadsheets_Product_
reference "BP-PROD-025"
state R -> R1
node N1
representation JP(BP-PROD-025)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Purpose: Provide governed spreadsheet-like operational modeling through typed measurement cells, immutable revisions, Pe
    
```

NODE PLACEMENT / RAINBOW PATH



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Purpose: Bind every JP-origin product candidate through MK physics representation, JO verification, participant evidence, and MJ bounded permit classification. Class: PRODUCT_FAMILY_ENVELOPE. Parent: JP. Current status: PREPASKEY_PORTFOLIO_ENVELOPE.

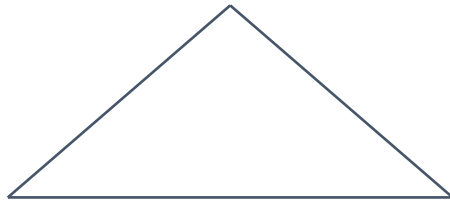
PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.JP05MJ_Product_Portfolio_Env
reference "BP-PROD-026"
state R -> R1
node N1
representation JP(BP-PROD-026)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Purpose: Bind every JP-origin product candidate through MK physics representation, J0 verification, participant evidence
```

NODE PLACEMENT / RAINBOW PATH



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Purpose: Provide a scale-independent rectangle/cone/Sister/EVE/reservoir calculation standard and H2 reference-gas observation profile. Class: PHYSICS_REFERENCE_SYSTEM. Parent: MJ. Current status: REFERENCE_MVP_PHYSICAL_VALUES_HOLD.

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.MJ_Standard_Containment_Geom
reference "BP-PROD-027"
state R -> R1
node N1
representation JP(BP-PROD-027)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Purpose: Provide a scale-independent rectangle/cone/Sister/EVE/reservoir calculation standard and H2 reference-gas obser
```


NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Purpose: Provide the common JP-origin governed solar and energy-management architecture shared by the phone, marine, and peaceful rocket/spacecraft profiles. Class: SHARED_SOLAR_ARCHITECTURE. Parent: MJ. Current status: DESIGN_TRACE_SPECIFICATION_FROZEN_PHYSICAL_HOLD.

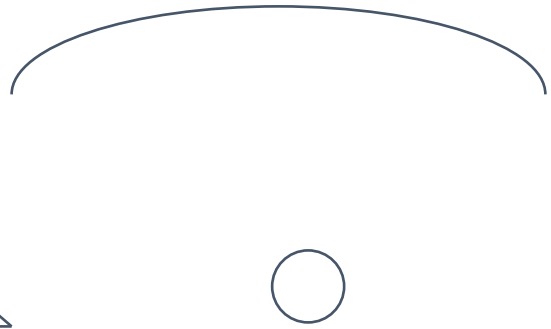
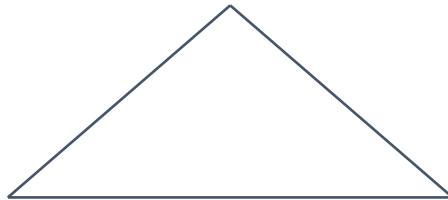
PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.MJOS_Solar_Shared_Core_Archi
reference "BP-PROD-029"
state R -> R1
node N5
representation JP(BP-PROD-029)
physics MK(classify, units, boundary, uncertainty)
verify JO(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Purpose: Provide the common JP-origin governed solar and energy-management architecture shared by the phone, marine, and
```

NODE PLACEMENT / RAINBOW PATH



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Purpose: Provide solar-assisted phone battery and operating-system power integration with governed energy intake, battery/thermal observation, reserve allocation, workload-aware coordination, provenance, and measurable accounting. Class: SOLAR_PROFILE_SEMICONDUCTOR_PHONE. Parent: MJ.
Current status:
DESIGN_TRACE_SPECIFICATION_FROZEN_PLANNED_ONLY_NO_PHYSICAL_ARTICLE.

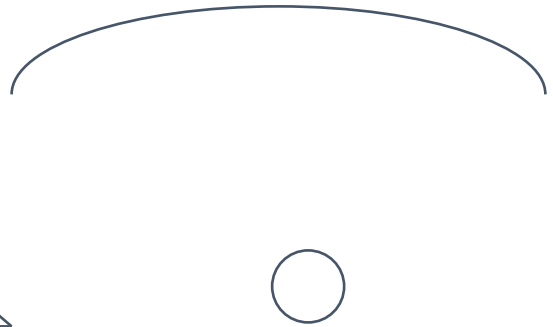
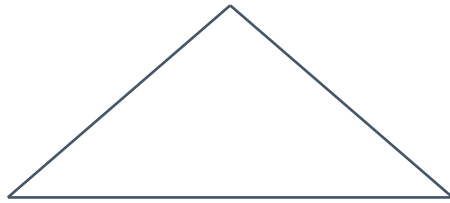
PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.MJOS_Solar_Semiconductor_Photo
reference "BP-PROD-030"
state R -> R1
node N1
representation JP(BP-PROD-030)
physics MK(classify, units, boundary, uncertainty)
verify JO(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Purpose: Provide solar-assisted phone battery and operating-system power integration with governed energy intake, battery
```

NODE PLACEMENT / RAINBOW PATH



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Purpose: Provide solar-assisted marine energy intake, storage, propulsion-load coordination, conversion/recovery, thermal management, reserve protection, operating-system control, telemetry, and evidence-backed state transitions.
Class: SOLAR_PROFILE MARINE. Parent: MJ. Current status:
DESIGN_TRACE_SPECIFICATION_FROZEN_UNCLASSIFIED_NO_PHYSICAL_ARTICLE.

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

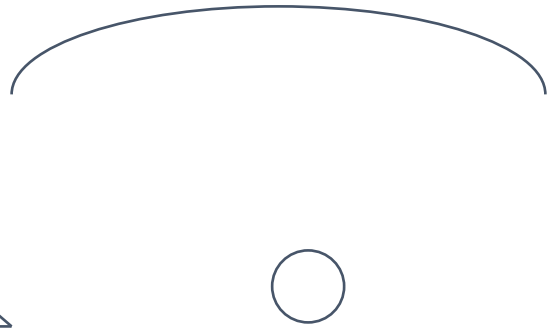
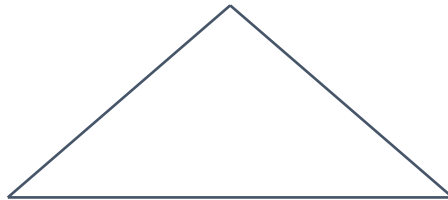
CODE / MATH / PROCESS REPRESENTATION

```

module MJ.Rainbow.MJ05_Solar_Assisted_Marine_P
reference "BP-PROD-031"
state R -> R1
node N1
representation JP(BP-PROD-031)
physics MK(classify, units, boundary, uncertainty)
verify JO(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Purpose: Provide solar-assisted marine energy intake, storage, propulsion-load coordination, conversion/recovery, thermal

```

NODE PLACEMENT / RAINBOW PATH



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Purpose: Provide a non-weaponized reference architecture for solar-assisted avionics/electrical reserve, propulsion-state coordination, thermal/battery management, authenticated startup/shutdown, telemetry, fault isolation, and emergency-state control. Class: SOLAR_PROFILE_PEACEFUL_ROCKET_SPACECRAFT. Parent: MJ. Current status: DESIGN TRACE SPECIFICATION FROZEN PEACEFUL RESEARCH ONLY SAFETY_HOLD.

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.MJOS_Peaceful_Solar_Assisted
reference "BP-PROD-032"
state R -> R1
node N1
representation JP(BP-PROD-032)
physics MK(classify, units, boundary, uncertainty)
verify JO(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Purpose: Provide a non-weaponized reference architecture for solar-assisted avionics/electrical reserve, propulsion-stat
```


NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Purpose: Represent typed collection, scale, unit, state, lineage, and conservation for elements or variance observations. Class: MEASUREMENT_AND_COLLECTION_REFERENCE. Parent: MJ. Current status: REFERENCE_CANDIDATE_SIMULATION_AND_MEASUREMENT_ONLY.

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.DRO_Discrete_Retention_and_E
reference "BP-PROD-033"
state R -> R1
node N9
representation JP(BP-PROD-033)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Purpose: Represent typed collection, scale, unit, state, lineage, and conservation for elements or variance observations
```

NODE PLACEMENT / RAINBOW PATH



Primary situational anchor: N1; U/D/C remain profile-specific.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Purpose: Allocate DRO records into Pearl computational nodes while preserving typed capacity and receipts. Class: COMPUTATIONAL_CONTAINMENT_AND_ACCOUNTING. Parent: MJ. Current status: SIMULATION_AND_INFORMATION_RETENTION_ONLY.

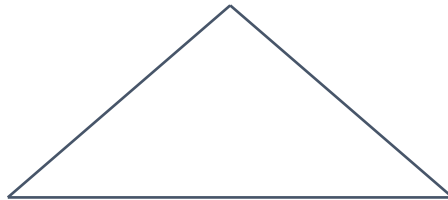
PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.DRO_to_Pearl_Computational_N
reference "BP-PROD-034"
state R -> R1
node N1
representation JP(BP-PROD-034)
physics MK(classify, units, boundary, uncertainty)
verify JO(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Purpose: Allocate DRO records into Pearl computational nodes while preserving typed capacity and receipts. Class: COMPUT
```

NODE PLACEMENT / RAINBOW PATH



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.



R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Purpose: Represent source, start-energy, restart-reserve, conversion, and permit gates without authorizing ignition hardware. Class: NON_OPERATIONAL_ENERGY_START_REFERENCE. Parent: MJ. Current status: NON_OPERATIONAL_REFERENCE_ACTIVE_HOLD.

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.DRO_Start_Energy_and_Restart
reference "BP-PROD-035"
state R -> R1
node N1
representation JP(BP-PROD-035)
physics MK(classify, units, boundary, uncertainty)
verify JO(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Purpose: Represent source, start-energy, restart-reserve, conversion, and permit gates without authorizing ignition hard
```

NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Purpose: Preserve image source identity, analyze signal variance, label transformations, and create bounded intent hypotheses. Class: VISUAL_EVIDENCE_AND_PROVENANCE. Parent: MJ. Current status: REFERENCE CANDIDATE.

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Lecanto_Image_Provenance_Phy
reference "BP-PROD-036"
state R -> R1
node N1
representation JP(BP-PROD-036)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Purpose: Preserve image source identity, analyze signal variance, label transformations, and create bounded intent hypot
```

NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Purpose: Integrate DRO energy and measurement accounting with Pearl computational nodes and semiconductor wake/reserve logic. Class: SEMICONDUCTOR_REFERENCE_INTEGRATION. Parent: MJ. Current status: PLANNED_ONLY_NO_PHYSICAL_ARTICLE.

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.JP_Semiconductor_DR0_and_Pea
reference "BP-PROD-037"
state R -> R1
node N4
representation JP(BP-PROD-037)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Purpose: Integrate DR0 energy and measurement accounting with Pearl computational nodes and semiconductor wake/reserve 1
```

NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source
MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 1 of 431. MJ-PBMEFPinkPaper-VolumeI
GatewayExpression,BangelConstructSemantics,CommandNormalization,and R-to-N1-to-R2Lifecycle MichaelBangel-AuthorandArchitect August2026

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.MJ_PBMEFPinkPaper_VolumeI_Ga
reference "PINK-01-P0001"
state R -> R1
node N1
representation JP(PINK-01-P0001)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 1 of 431. MJ-PBMEFPinkPaper-VolumeI
```

Node Placement / Rainbow Path

R

R1

N1

U

D

C

OUT

Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

Source Rule / Intent

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Pink source
MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 2 of 431. Contents 1 Executive gateway statement 2 2 Progressive expansion from MJ.23.r2 3 3 Token-by-token identification 4 4 Canonical execution order 5 5 R, R1, N1, R2, and final output 6 6 Bangel construct dictionary 7 7 Full declarative gateway example 8 8 Verification of the full corpus 9 Document control Project MJ:PhysicsBasedMeasurementEngineeringFramework Project ID MJ-PBMEF-001 Source build MJ-PBMEF-DAY0-R5-REVIEW-C

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

module MJ.Rainbow.Contents_1_Executive_gateway
reference "PINK-01-P0002"
state R -> R1
node N1
representation JP(PINK-01-P0002)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 2 of 431. Contents 1 Executive gatew

NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source
 MJ_PBMF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 3
 of 431. Chapter 1 Executive gateway statement
 ThePinkPaperisaverification-focuseddeclarativepathwayspecification.
 Itusesthefounder-supplied expression as a source-provenance object, then
 separates lexical order from canonical execution or-der.
 Thepapershowshoweachformula,manifestation,object,product,andwhitepaperenterstheMJ
 frameworkwithoutconfusingrepresentation,measurement,authority,orexecution.
 Founder source literal {ha

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```

module MJ.Rainbow.Chapter_1_Executive_gateway_
reference "PINK-01-P0003"
state R -> R1
node N1
representation JP(PINK-01-P0003)
physics MK(classify, units, boundary, uncertainty)
verify JO(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 3 of 431. Chapter 1 Executive gatewa

```


Node Placement / Rainbow Path

Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation	Source Rule / Intent
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 4 of 431. Chapter 2 Progressive expansion from MJ.23.r2 Stage Expression Interpretation 1 MJ.23.r2 Profile/stateseed 2 MJ.23.r2.exe Addsrequestedexecutionverb 3 MJ.23.r2.exe.r1.confirm Addstransitionandconfirmation 4 MJ.23.r2.exe.r1.confirm.G123.reconcile Addsgenerationalreconciliation 5 MJ.23.r2.exe.r1.confirm.G123.reconcile.Bangel.begin Addslanguagestartdirectiv...

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.Chapter_2_Progressive_expans
reference "PINK-01-P0004"
state R -> R1
node N1
representation JP(PINK-01-P0004)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 4 of 431. Chapter 2 Progressive expa
```

Node Placement / Rainbow Path

Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

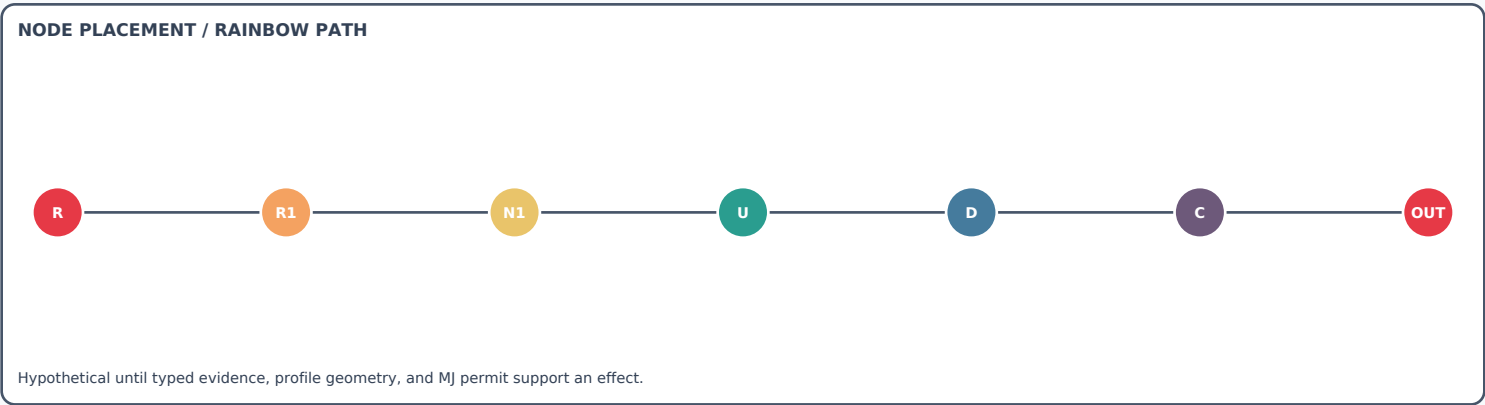
Pink source
MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 5 of 431. Chapter 3 Token-by-token identification Token Exact meaning and boundary {hagelaohrbcoe.48383829}
Requestenvelopecontaininganopaquerequestidentifierandexactratio48,383,829/100,000,000. Itisnotaphysicalcoordinate,probabilityoftruth,orpermit. M3 Mary/M3boundedroutingandallocationparticipant. M3cannotmintauthority. act Requestedeffectverb. Itremainsarequestuntilallgatespass. MJ Frameworkrootandfinalboundeddecisionautho

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

module MJ.Rainbow.Chapter_3_Token_by_token_ide
reference "PINK-01-P0005"
state R -> R1
node N1
representation JP(PINK-01-P0005)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 5 of 431. Chapter 3 Token-by-token i



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 6 of 431. Chapter 4 Canonical execution order HumanPurpose -> MJ.root -> Bangel.begin -> Elsa.recover -> JP.represent -> MK.classify -> JO.verify -> R1.transition -> N1.predict_and_preallocate -> Angels/Bellatrix/Sister/EVE.evidence -> M3.route -> Mermaid.reconcile -> Shiva.when_capital_applies -> MJ.permit -> JO.execute -> R2.output_receipt 5

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_4_Canonical_executio
reference "PINK-01-P0006"
state R -> R1
node N1
representation JP(PINK-01-P0006)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 6 of 431. Chapter 4 Canonical execut
```

Node Placement / Rainbow Path

R

R1

N1

U

D

C

OUT

Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source

MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 7 of 431. Chapter 5 R, R1, N1, R2, and final output Lifecycle state Definition R/R0 Initialpurpose,command,variables,authoritycontext,andunresolvedinputs. R1 Unidentifiedtransitoryphase. Missingordisputedevidenceremainsstypedandcan- notbecomezero. N1 Firstprediction-basedallocationnode. Itreceivesvalidatedlogicalallocationcontext, notaphysical-coordinateapproval. R2 Immutableliving-staticrepresentationafterscopedvalidation.

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.Chapter_5_R_R1_N1_R2_and_fin
reference "PINK-01-P0007"
state R -> R1
node N1
representation JP(PINK-01-P0007)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 7 of 431. Chapter 5 R, R1, N1, R2, a
```

Node Placement / Rainbow Path

Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source

MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 8 of 431. Chapter 6 Bangel construct dictionary Construct Definition Module

Aboundedcompilationorspecificationunitgroupingrelateddeclarationsanddefinitions. Namespace

Astableidentitydomainpreventingcollisionsamongfamily,formula,product,andobject names. Import Anexplicitdependencyedge.

Importsconfernoauthorityandmustpreservesourcedi- gestandversion.

Declarat...

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

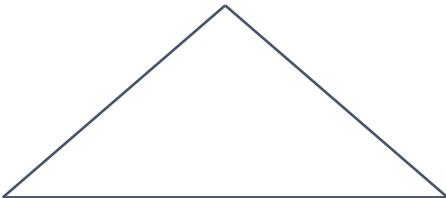
Code / Math / Process Representation

```
module MJ.Rainbow.Chapter_6_Bangel_construct_d
reference "PINK-01-P0008"
state R -> R1
node N3
representation JP(PINK-01-P0008)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 8 of 431. Chapter 6 Bangel construct
```

NODE PLACEMENT / RAINBOW PATH



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.



R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source
MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 9 of 431. Chapter 7 Full declarative gateway example module MJ.PBMEF.Gateway { namespace MJ.PBMEF.Command.Day0 import MJ.PBMEF.Manifest import MJ.PBMEF.Formulas import MJ.PBMEF.Family @source_literal("{hagelaohrbcoe.48383829}." "M3.act.MJ.23.r2.exe.r1.confirm." "G123.reconcile.Bangel.begin") declaration request : CommandEnvelope definition request.id = "hagelaohrbcoe" definition request.front_end_seed = exact_ratio(48383829,

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

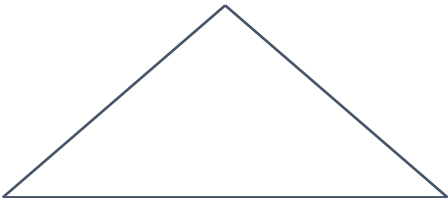
CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_7_Full_declarative_g
reference "PINK-01-P0009"
state R -> R1
node N1
representation JP(PINK-01-P0009)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 9 of 431. Chapter 7 Full declarative
```

NODE PLACEMENT / RAINBOW PATH



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.



R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

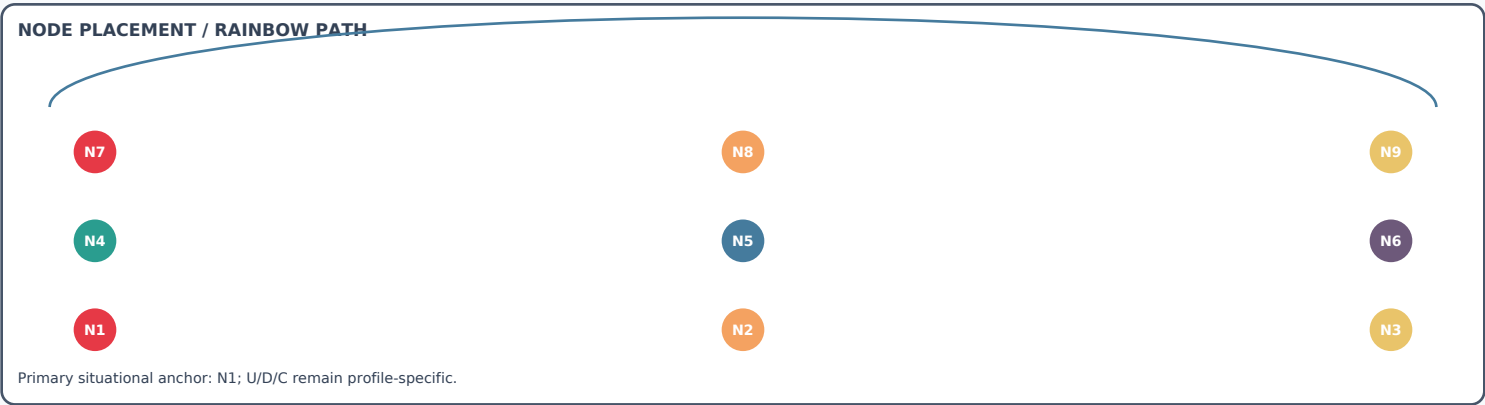
Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 10 of 431. Chapter 8 Verification of the full corpus ThisPinkPaperbindsthegatewayto 21 family manifestations, 39 governed objects, 28 products, 145 formulas, and 61 registered white papers. Theremainingvolumesenumerateeachitemand statehowitentersthegateway,whatitmayexpress,whatevidenceitrequires,andwhatauthority cannotcreate. 9

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_8_Verification_of_th
reference "PINK-01-P0010"
state R -> R1
node N1
representation JP(PINK-01-P0010)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 10 of 431. Chapter 8 Verification of
```

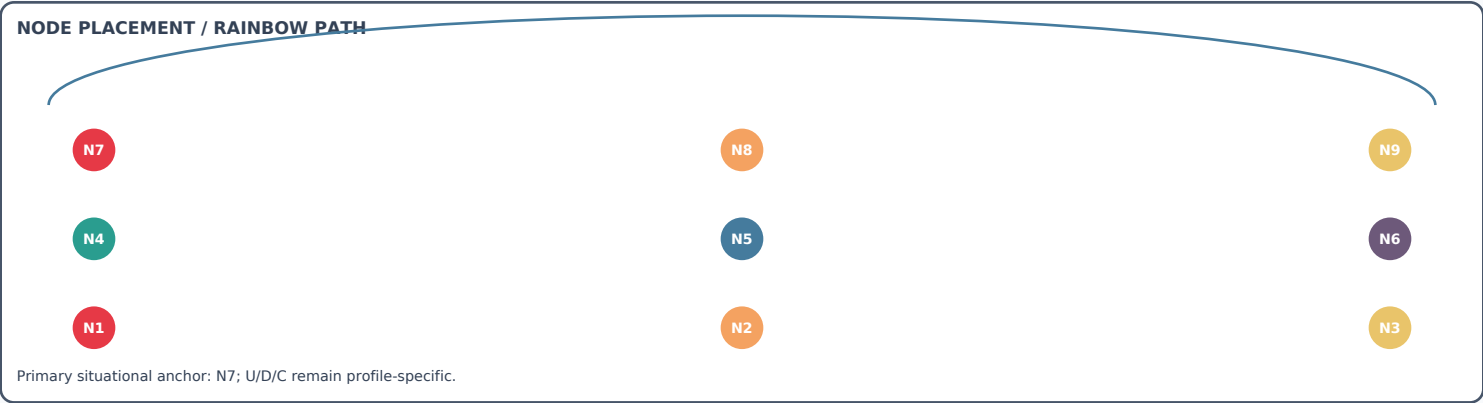


R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 11 of 431. MJ-PBMEFPinkPaper-Volumell FormulaGatewayBindingsF-001throughF-050 MichaelBangel-AuthorandArchitect August2026

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.MJ_PBMEFPinkPaper_VolumeII_F
reference "PINK-01-P0011"
state R -> R1
node N1
representation JP(PINK-01-P0011)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 11 of 431. MJ-PBMEFPinkPaper-Volumell
```

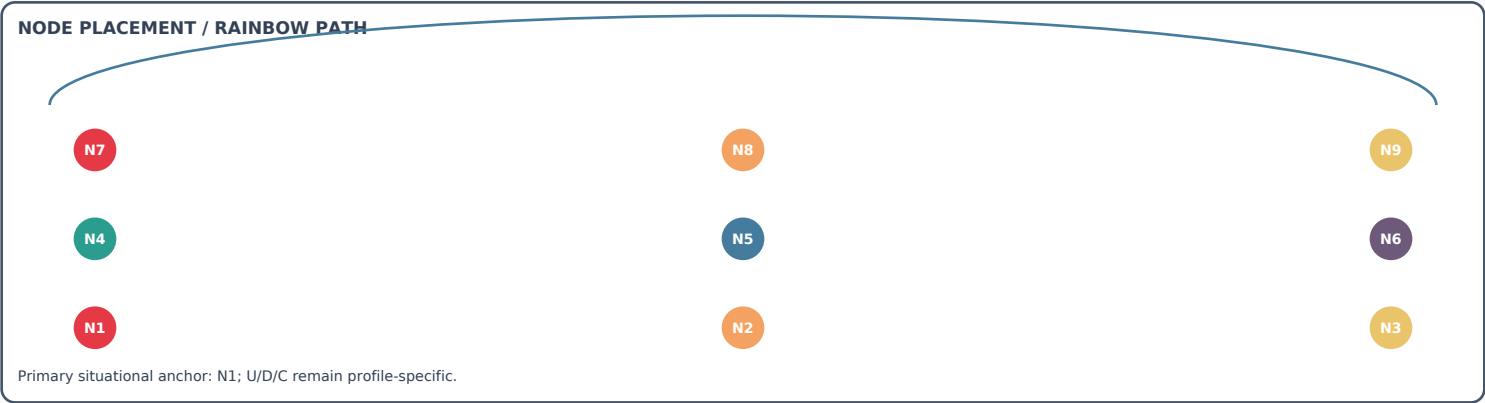



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 12 of 431. Contents 1 Verification method 5 2 F-001 - R1 transition 6 2.1 Gatewaylife-cycleexample6 2.2 Lifecyclefromrequesttofinaloutput7 3 F-002 - R2 transition 8 3.1 Gatewaylife-cycleexample 8 3.2 Lifecyclefromrequesttofinaloutpu

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Contents_1_Verification_meth
reference "PINK-01-P0012"
state R -> R1
node N7
representation JP(PINK-01-P0012)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 12 of 431. Contents 1 Verification m
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 13 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper II - F001-F050 13.2Lifecyclefromrequesttofinaloutput 29 14F-013 - Front-end reserve 30 14.1Gatewaylife-cycleexample 30 14.2Lifecyclefromrequesttofinaloutput 31 15F-014 - Bounde

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0013"
state R -> R1
node N1
representation JP(PINK-01-P0013)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 13 of 431. PRIVATE PRE-DAY-0 - UNSIG
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 14 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper II - F001-F050 29F-028 - Byte balance 60 29.1Gatewaylife-cycleexample 60 29.2Lifecyclefromrequesttofinaloutput 61 30F-029 - Residual consequence 62 30.1Gatewaylife-cycleexample

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0014"
state R -> R1
node N1
representation JP(PINK-01-P0014)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 14 of 431. PRIVATE PRE-DAY-0 - UNSIG
```

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

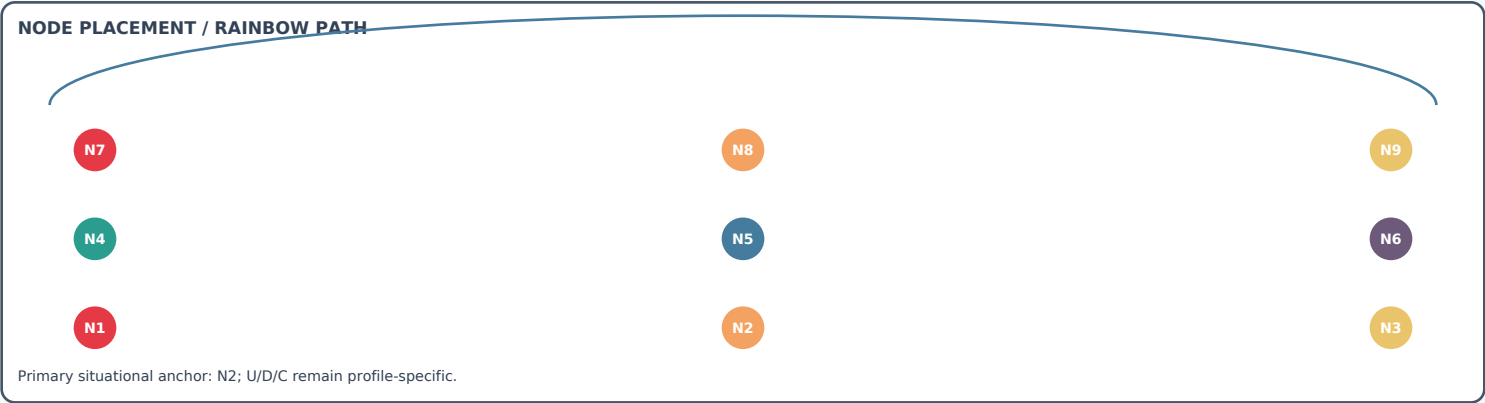
R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 15 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper II - F001-F050 44F-043 - Pearl simulation ellipsoid volume 90 44.1Gatewaylife-cycleexample90 44.2Lifecyclefromrequesttofinaloutput91 45F-044 - Pearl simulation surface-area approximation 92 45.1Gatewaylife-cycleexample

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0015"
state R -> R1
node N1
representation JP(PINK-01-P0015)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 15 of 431. PRIVATE PRE-DAY-0 - UNSIG
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 16 of 431. Chapter 1 Verification method Each formula receives the same twenty-construct Bangel identity, a gateway-stage assignment, a life-cycleexample, andexplicitvidenceandethicsboundaries. Therepetitivestructureisintentional: it allowsformula-by-formulafounderreviewandlaterautomatedcompletenesschecking. 5

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_1_Verification_metho
reference "PINK-01-P0016"
state R -> R1
node N2
representation JP(PINK-01-P0016)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 16 of 431. Chapter 1 Verification me
```

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.



R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source

MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 17 of 431. Chapter 2 F-001 - R1 transition Exact expression R0 -> R1 Meaning. R1istheunidentifiedtransitionaryphase. Bound manifestations.Bangel .JP,JO Gateway stage.R0/R1/R2statetransitionandevidenceclassification Construct Formula-specific expression Module MJ.PBMEF.foundation.state_noise_allocation_memory Namespace MJ.PBMEF.foundation.state_noise_allocation_memory.F_001 Import MJ.PBMEF.Manifest,MJ.PBMEF.Formulas,MJ.PBMEF.Fami

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_2_F_001_R1_transitio
reference "PINK-01-P0017"
state R -> R1
node N1
representation JP(PINK-01-P0017)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 17 of 431. Chapter 2 F-001 - R1 tran
```

Internal reference only. No physical validation, operation authority, product certification, external effect, IP approval, or external effect.

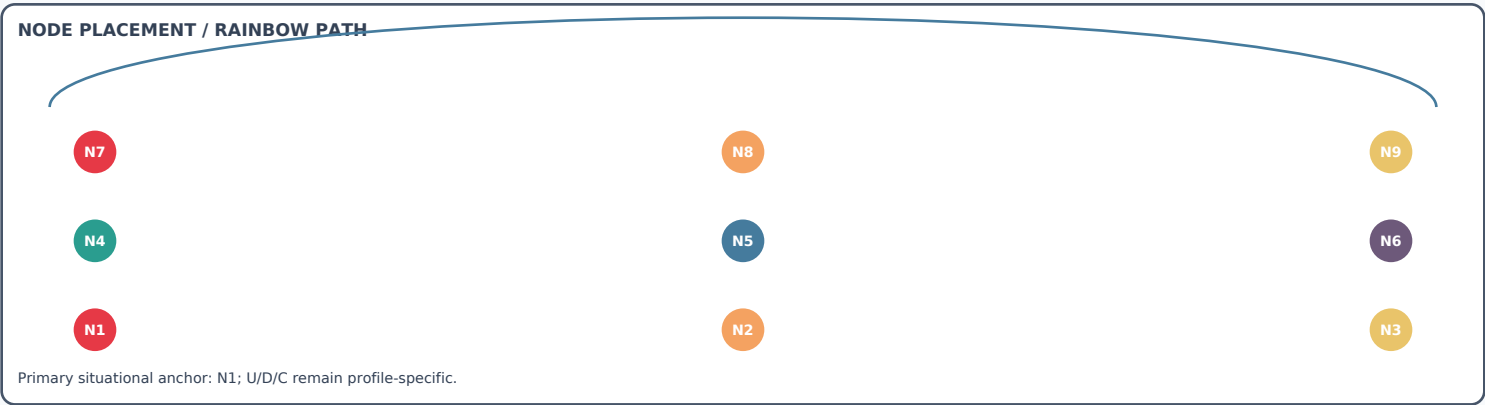
MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 17 of 431. Chapter 2 F-001 - R1 transition Exact expression R0 -> R1 Meaning. R1istheunidentifiedtransitionaryphase. Bound manifestations.Bangel .JP,JO Gateway stage.R0/R1/R2statetransitionandevidenceclassification Construct Formula-specific expression Module MJ.PBMEF.foundation.state_noise_allocation_memory Namespace MJ.PBMEF.foundation.state_noise_allocation_memory.F_001 Import MJ.PBMEF.Manifest,MJ.PBMEF.Formulas,MJ.PBMEF.Fami

MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 17 of 431. Chapter 2 F-001 - R1 transition Exact expression R0 -> R1 Meaning. R1istheunidentifiedtransitionaryphase. Bound manifestations.Bangel .JP,JO Gateway stage.R0/R1/R2statetransitionandevidenceclassification Construct Formula-specific expression Module MJ.PBMEF.foundation.state_noise_allocation_memory Namespace MJ.PBMEF.foundation.state_noise_allocation_memory.F_001 Import MJ.PBMEF.Manifest,MJ.PBMEF.Formulas,MJ.PBMEF.Fami

MJos Predictive Model | First manifestation of the Bangel Language

MJ Physics Engineering | Owned and operated by Michael Bangel | Clearwater, Florida

RAINBOW | Original collection page 7801 | Terminology edition; source evidence remains historical



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 18 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper II - F001-F050 2.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-001anditsassumptions, inputs, outp

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0018"
state R -> R1
node N1
representation JP(PINK-01-P0018)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 18 of 431. PRIVATE PRE-DAY-0 - UNSIG
```

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

Source Rule / Intent

Pink source

MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 19 of 431. Chapter 3 F-002 - R2 transition Exact expression R1 --validated--> R2 Meaning. R2istheimmutablelivingstaticrepresentation. Bound manifestations,JP,MK,JO Gateway stage.R0/R1/R2statetransitionandevidenceclassification Construct Formula-specific expression Module MJ.PBMEF.foundation.state_noise_allocation_memory Namespace MJ.PBMEF.foundation.state_noise_allocation_memory.F_002 Imp...

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_3_F_002_R2_transitio
reference "PINK-01-P0019"
state R -> R1
node N1
representation JP(PINK-01-P0019)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 19 of 431. Chapter 3 F-002 - R2 tran
```


Node Placement / Rainbow Path



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

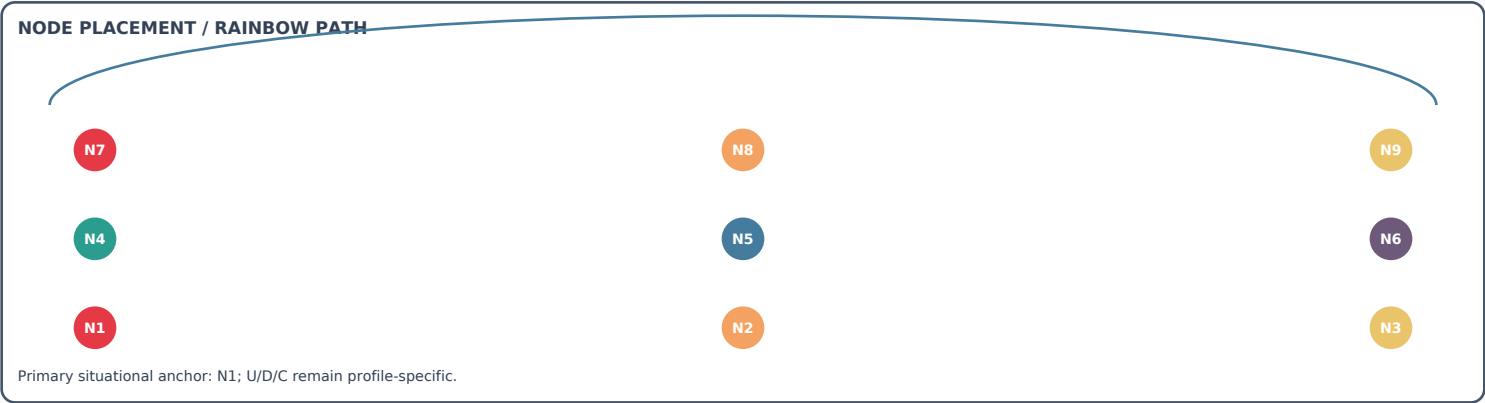
Pink source
MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 20 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper II - F001-F050 3.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-002anditsassumptions, inputs, outp

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0020"
state R -> R1
node N1
representation JP(PINK-01-P0020)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 20 of 431. PRIVATE PRE-DAY-0 - UNSIG
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 21 of 431. Chapter 4 F-003 - Unknown invariant Exact expression UNKNOWN != 0 Meaning. Unknownmaynotcoercetozero,pass,harmlessness,orpermission. Bound manifestations.Bangel ,JO,WATER Gateway stage.R0/R1/R2statetransitionandevidenceclassification Construct Formula-specific expression Module MJ.PBMEF.foundation.state_noise_allocation_memory Namespace MJ.PBMEF.foundation.state_noise_allocation_memory.F_003 Imp...

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_4_F_003_Unknown_inva
reference "PINK-01-P0021"
state R -> R1
node N1
representation JP(PINK-01-P0021)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 21 of 431. Chapter 4 F-003 - Unknown
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 22 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper II - F001-F050 4.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-003anditsassumptions, inputs, outp

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0022"
state R -> R1
node N1
representation JP(PINK-01-P0022)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 22 of 431. PRIVATE PRE-DAY-0 - UNSIG
```

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

Source Rule / Intent

Pink source

MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 23 of 431. Chapter 5 F-004 - Mass inflection Exact expression m_floor = 23 mg

Meaning. Pre-observationalmodelfloor,notauniversalminimumorproductmass. Bound manifestations.JP,MK,EVE,JO Gateway

stage.MJ.23typedmeasurementbranchandMKphysicsclassification Construct

Formula-specific expression Module

MJ.PBMEF.foundation.state_noise_allocation_memory Namespace

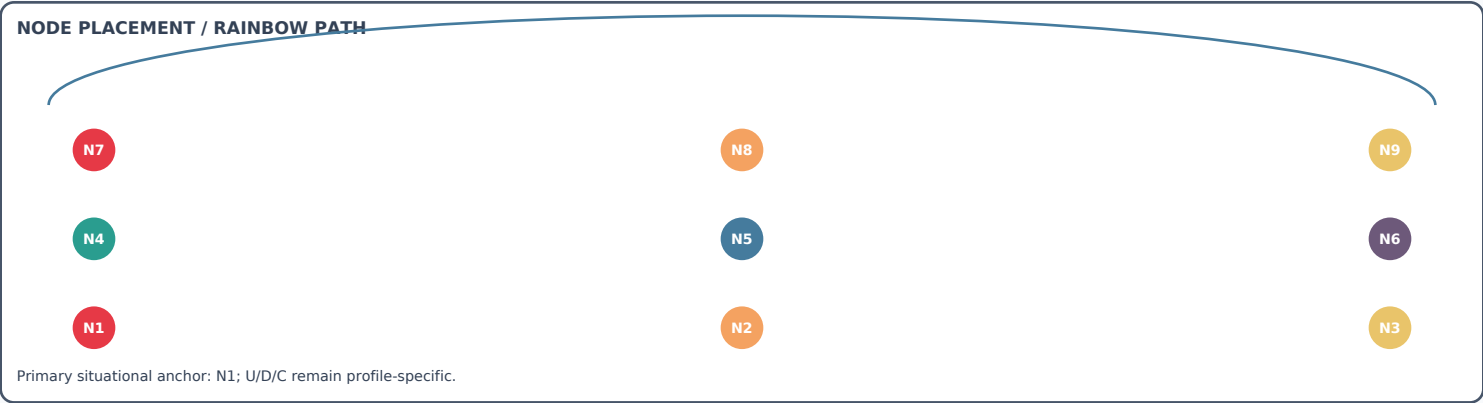
MJ.PBMEF.foundation.state_noise_allocation_memory.F_004 Imp...

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_5_F_004_Mass_inflect
reference "PINK-01-P0023"
state R -> R1
node N1
representation JP(PINK-01-P0023)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 23 of 431. Chapter 5 F-004 - Mass in
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 24 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper II - F001-F050 5.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-004anditsassumptions, inputs, outp

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0024"
state R -> R1
node N1
representation JP(PINK-01-P0024)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 24 of 431. PRIVATE PRE-DAY-0 - UNSIG
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 25 of 431. Chapter 6 F-005 - Noise smoothing Exact expression $\bar{n}[t] = 0.9*\bar{n}[t-1] + 0.1*n[t]$ Meaning. Drip-levelsmoothing. Bound manifestations.SISTER,JO,MK Gateway stage.R1predictionandnormal-constellationcalibrationbeforeN1 Construct Formula-specific expression Module MJ.PBMEF.foundation.state_noise_allocation_memory Namespace MJ.PBMEF.foundation.state_noise_allocation_memory.F_005 Imp...

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> Mj bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_6_F_005_Noise_smooth
reference "PINK-01-P0025"
state R -> R1
node N1
representation JP(PINK-01-P0025)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 25 of 431. Chapter 6 F-005 - Noise s
```

Node Placement / Rainbow Path



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source
MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 26 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper II - F001-F050 6.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-005 and its assumptions, inputs, outp

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0026"
state R -> R1
node N1
representation JP(PINK-01-P0026)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 26 of 431. PRIVATE PRE-DAY-0 - UNSIG
```

NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source
MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 27 of 431. Chapter 7 F-006 - Trend estimator Exact expression $\dot{n}[t] = (2/3)*\dot{n}[t-1] + (1/3)*(n_{bar}[t]-n_{bar}[t-1])/dt$ Meaning. One-thirdtrendupdate. Bound manifestations.SISTER,JO,MK Gateway stage.R1predictionandnormal-constellationcalibrationbeforeN1 Construct Formula-specific expression Module
MJ.PBMEF.foundation.state_noise_allocation_memory Namespace
MJ.PBMEF.foundation.state_noise_allocation_memory.F_006 Import MJ.PBM

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_7_F_006_Trend_estima
reference "PINK-01-P0027"
state R -> R1
node N1
representation JP(PINK-01-P0027)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 27 of 431. Chapter 7 F-006 - Trend e
```




R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 28 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper II - F001-F050 7.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-006anditsassumptions, inputs, outp

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0028"
state R -> R1
node N1
representation JP(PINK-01-P0028)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 28 of 431. PRIVATE PRE-DAY-0 - UNSIG
```

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source

MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 29 of 431. Chapter 8 F-007 - Anti-spike gate Exact expression support

>=3 of 5 AND 3 qualified windows Meaning. Singlespikecannottriggerfullreweighting. Bound manifestations.SISTER,ANGELS,JO Gateway stage.R1predictionandnormal-constellationcalibrationbeforeN1 Construct Formula-specific expression Module

MJ.PBMEF.foundation.state_noise_allocation_memory Namespace

MJ.PBMEF.foundation.state_noise_allocation_memory.F_007 Import MJ.P

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_8_F_007_Anti_spike_g
reference "PINK-01-P0029"
state R -> R1
node N1
representation JP(PINK-01-P0029)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 29 of 431. Chapter 8 F-007 - Anti-sp
```

NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source
MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 30 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper II - F001-F050 8.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-007anditsassumptions, inputs, outp

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0030"
state R -> R1
node N1
representation JP(PINK-01-P0030)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 30 of 431. PRIVATE PRE-DAY-0 - UNSIG
```

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source

MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 31 of 431. Chapter 9 F-008 - Prediction gain Exact expression $g_i = 0.1*(2/3)^{(i-1)}$ Meaning. Predictioninfluencedecaysacrossthenine-nodepath. Bound manifestations.JP,SISTER,JO Gateway stage.R1predictionandnormal-constellationcalibrationbeforeN1 Construct Formula-specific expression Module MJ.PBMEF.foundation.state_noise_allocation_memory Namespace MJ.PBMEF.foundation.state_noise_allocation_memory.F_008 Imp...

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_9_F_008_Prediction_g
reference "PINK-01-P0031"
state R -> R1
node N1
representation JP(PINK-01-P0031)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 31 of 431. Chapter 9 F-008 - Predict
```

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source

MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 32 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper II - F001-F050 9.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-008anditsassumptions, inputs, outp

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R

reference "PINK-01-P0032"

state R -> R1

node N1

representation JP(PINK-01-P0032)

physics MK(classify, units, boundary, uncertainty)

verify J0(types, evidence, receipts)

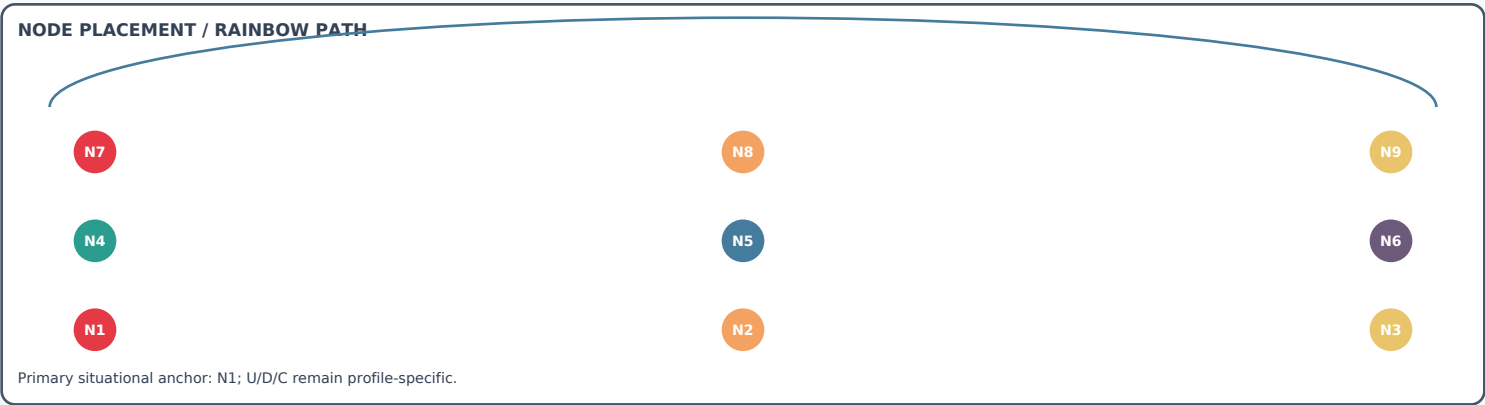
if all_required_gates == PASS:

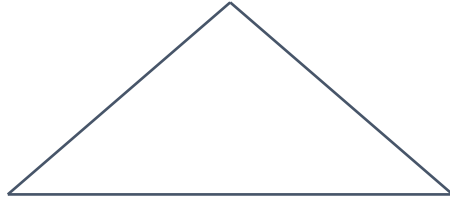
MJ.permit -> R2 -> bounded_output

else:

HOLD | FAIL_TECHNICAL | DENY

Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 32 of 431. PRIVATE PRE-DAY-0 - UNSIG





R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Pink source
MJ_PBMF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page
34 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper II -
F001-F050 10.2 Lifecycle from request to final output 1. R/RO:
receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin:
parsemodules,namespaces,declarations,literals,types,constraints,anddirectives.
3. Elsa:
reversesemanticpurpose,variablemeaning,andambiguitywithoutcreatingauthority.
4. JP:create the canonical CAPO for F-009 and its assumptions, inputs, out

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0034"
state R -> R1
node N1
representation JP(PINK-01-P0034)
physics MK(classify, units, boundary, uncertainty)
verify JO(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ PBMEF Pink Paper Gateway Expression and Full Lifecycle 001.pdf, page 34 of 431. PRIVATE PRE-DAY-0 - UNSIG
```

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

Source Rule / Intent

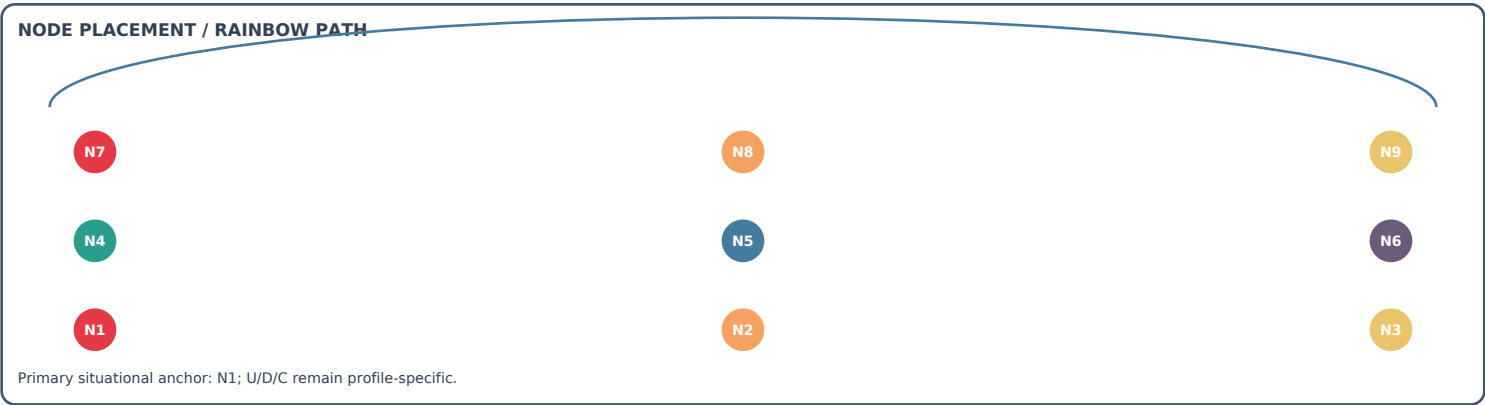
Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 35 of 431. Chapter 11 F-010 - Shadow depth Exact expression $H = \sqrt{\lambda_{\max}(\Sigma)}$ Meaning. Uncertainty depth. Bound manifestations. MK, SISTER, EVE Gateway stage. R1 prediction and normal constellation calibration before N1 Construct Formula-specific expression Module MJ.PBMEF.foundation.state_noise_allocation_memory Namespace MJ.PBMEF.foundation.state_noise_allocation_memory.F_010 Imp...

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

module MJ.Rainbow.Chapter_11_F_010_Shadow_dept
reference "PINK-01-P0035"
state R -> R1
node N1
representation JP(PINK-01-P0035)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 35 of 431. Chapter 11 F-010 - Shadow



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 36 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper II - F001-F050 11.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-010anditsassumptions, inputs, out

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0036"
state R -> R1
node N1
representation JP(PINK-01-P0036)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 36 of 431. PRIVATE PRE-DAY-0 - UNSIG
```

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source

MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 37 of 431. Chapter 12 F-011 - Shadow growth rate Exact expression $v_{shadow} = (H_{next} - H_{prev}) / dt$ Meaning. Rate of uncertainty expansion or resolution. Bound manifestations. MK, SISTER, JO Gateway stage. R1 prediction and normal constellation calibration before N1 Construct Formula-specific expression Module

MJ.PBMEF.foundation.state_noise_allocation_memory Namespace

MJ.PBMEF.foundation.state_noise_allocation_memory.F_011 Imp...

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_12_F_011_Shadow_grow
reference "PINK-01-P0037"
state R -> R1
node N1
representation JP(PINK-01-P0037)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 37 of 431. Chapter 12 F-011 - Shadow
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 38 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper II - F001-F050 12.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-011anditsassumptions, inputs, out

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0038"
state R -> R1
node N1
representation JP(PINK-01-P0038)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 38 of 431. PRIVATE PRE-DAY-0 - UNSIG
```

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source

MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 39 of 431. Chapter 13 F-012 - Front-end allocation Exact expression a0 = 48383829/100000000 Meaning. ExactinitialN1logicalallocation. Bound manifestations.Bangel ,JP,JO,M3 Gateway stage.N1prediction-firststallocation,M3routing,andG123reconciliation Construct Formula-specific expression Module MJ.PBMEF.foundation.state_noise_allocation_memory Namespace MJ.PBMEF.foundation.state_noise_allocation_memory.F_012 Imp...

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_13_F_012_Front_end_a
reference "PINK-01-P0039"
state R -> R1
node N1
representation JP(PINK-01-P0039)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 39 of 431. Chapter 13 F-012 - Front-
```

Node Placement / Rainbow Path



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 40 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper II - F001-F050 13.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-012anditsassumptions, inputs, out

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0040"
state R -> R1
node N1
representation JP(PINK-01-P0040)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 40 of 431. PRIVATE PRE-DAY-0 - UNSIG
```

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source

MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 41 of 431. Chapter 14 F-013 - Front-end reserve Exact expression r0 = 51616171/100000000 Meaning. Exactlogicalreserve. Bound manifestations,JP,JO,M3 Gateway stage.JPcanonicalrepresentation,MKapplicability,JOproof,andboundedMJoutput Construct Formula-specific expression Module MJ.PBMEF.foundation.state_noise_allocation_memory Namespace MJ.PBMEF.foundation.state_noise_allocation_memory.F_013 Imp...

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_14_F_013_Front_end_r
reference "PINK-01-P0041"
state R -> R1
node N1
representation JP(PINK-01-P0041)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 41 of 431. Chapter 14 F-013 - Front-
```

Node Placement / Rainbow Path



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 42 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper II - F001-F050 14.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-013anditsassumptions, inputs, out

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0042"
state R -> R1
node N1
representation JP(PINK-01-P0042)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 42 of 431. PRIVATE PRE-DAY-0 - UNSIG
```

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source

MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 43 of 431. Chapter 15 F-014 - Bounded allocation update Exact expression $w_{next} = projection((2/3)w + (1/3)w_{target})$ Meaning. Nonnegative,sum-to-one,per-stepchange<=0.1. Bound manifestations.JP,JO,M3 Gateway stage.N1prediction-firstallocation,M3routing,andG123reconciliation Construct Formula-specific expression Module MJ.PBMEF.foundation.state_noise_allocation_memory Namespace MJ.PBMEF.foundation.state_noise_allocation_memory.F

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_15_F_014_Bounded_all
reference "PINK-01-P0043"
state R -> R1
node N1
representation JP(PINK-01-P0043)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 43 of 431. Chapter 15 F-014 - Bounded allocation update Exact expression
```


Node Placement / Rainbow Path



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

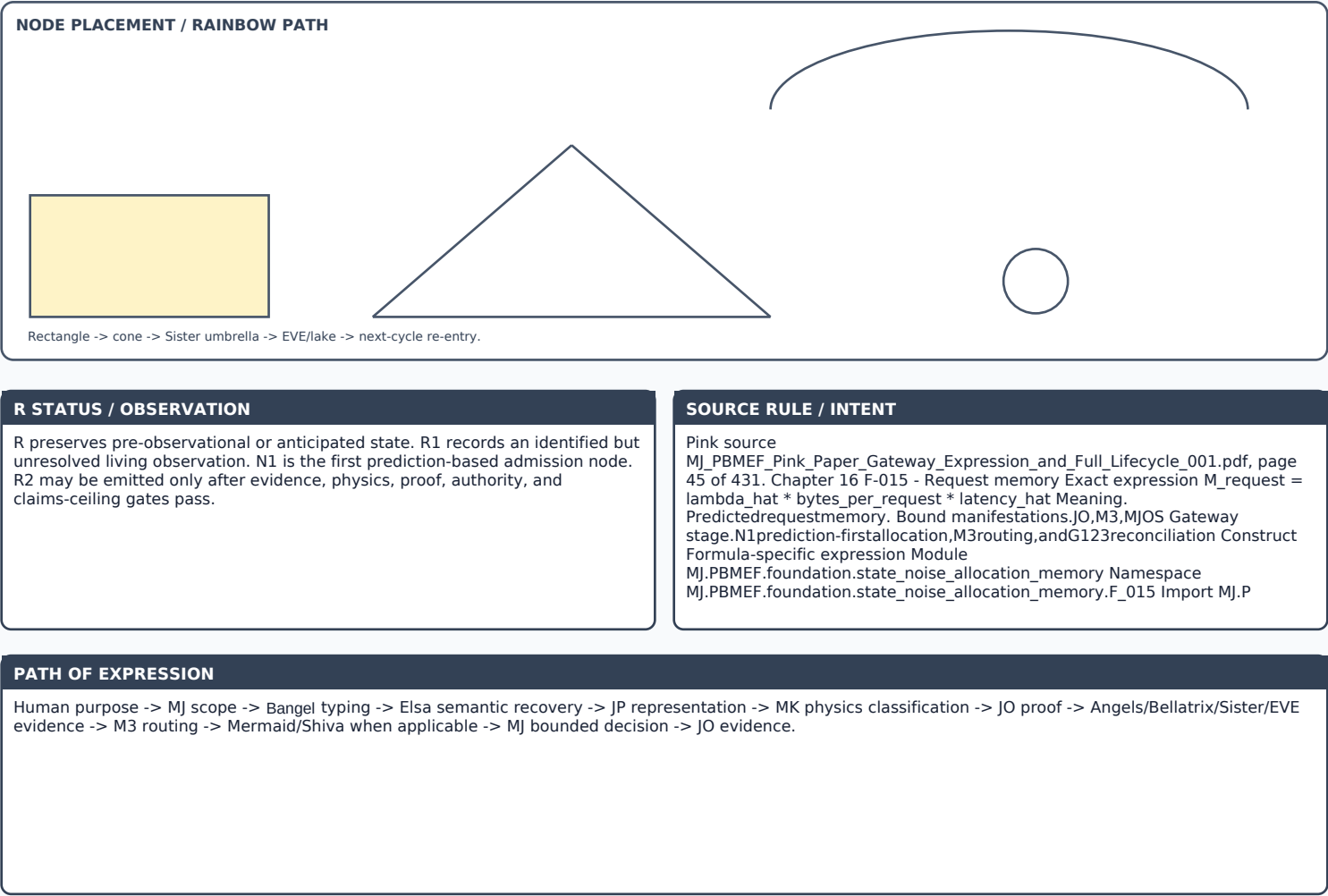
R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 44 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper II - F001-F050 15.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-014anditsassumptions, inputs, out

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0044"
state R -> R1
node N1
representation JP(PINK-01-P0044)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 44 of 431. PRIVATE PRE-DAY-0 - UNSIG
```



CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_16_F_015_Request_mem
reference "PINK-01-P0045"
state R -> R1
node N1
representation JP(PINK-01-P0045)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 45 of 431. Chapter 16 F-015 - Reques
```

Node Placement / Rainbow Path

Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source

MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 46 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper II - F001-F050 16.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-015 and its assumptions, inputs, out

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0046"
state R -> R1
node N1
representation JP(PINK-01-P0046)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 46 of 431. PRIVATE PRE-DAY-0 - UNSIG
```

Node Placement / Rainbow Path



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

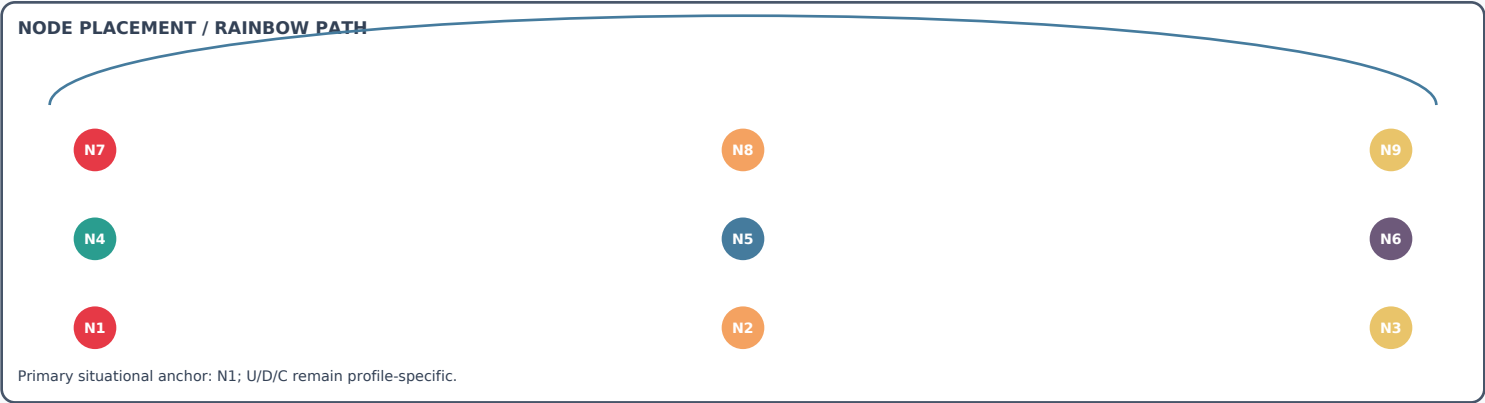
R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 47 of 431. Chapter 17 F-016 - Memory preallocation Exact expression M_pre = M_request + M_sync + M_residual + M_evidence + M_headroom Meaning. Preallocatebeforereserveexhaustion. Bound manifestations.JO,M3,SISTER Gateway stage.N1prediction-firststallocation,M3routing,andG123reconciliation Construct Formula-specific expression Module MJ.PBMEF.foundation.state_noise_allocation_memory Namespace MJ.PBMEF.foundation.state_noise_alloc

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.Chapter_17_F_016_Memory_pre
reference "PINK-01-P0047"
state R -> R1
node N1
representation JP(PINK-01-P0047)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 47 of 431. Chapter 17 F-016 - Memory
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 48 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper II - F001-F050 17.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-016anditsassumptions, inputs, out

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0048"
state R -> R1
node N1
representation JP(PINK-01-P0048)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 48 of 431. PRIVATE PRE-DAY-0 - UNSIG
```



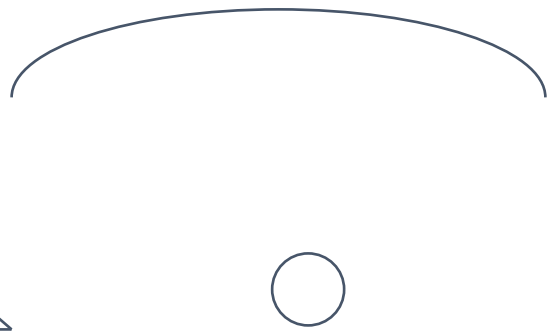
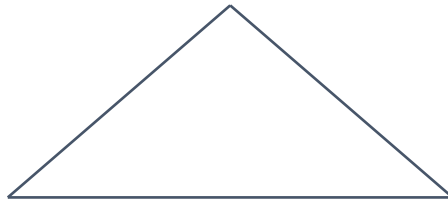
R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 49 of 431. Chapter 18 F-017 - Hard flush Exact expression QUIESCE -> SEAL -> CHECKPOINT -> DETACH -> RECLAIM Meaning. Nosilentdeletionorunclearedreuse. Bound manifestations.JO,M3,MJOS Gateway stage.JPcanonicalrepresentation,MKapplicability,JOproof,andboundedMJoutput Construct Formula-specific expression Module MJ.PBMEF.foundation.state_noise_allocation_memory Namespace MJ.PBMEF.foundation.state_noise_allocation_memory.F_017 Imp

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> Mj bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_18_F_017_Hard_flush_  
reference "PINK-01-P0049"  
state R -> R1  
node N1  
representation JP(PINK-01-P0049)  
physics MK(classify, units, boundary, uncertainty)  
verify JO(types, evidence, receipts)  
if all_required_gates == PASS:  
MJ.permit -> R2 -> bounded_output  
else:  
HOLD | FAIL_TECHNICAL | DENY  
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 49 of 431. Chapter 18 F-017 - Hard f
```

NODE PLACEMENT / RAINBOW PATH



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source
MJ_PBMF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page
50 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper II -
F001-F050 18.2 Lifecycle from request to final output 1. R/R0:
receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin:
parsemodules,namespaces,declarations,literals,types,constraints,anddirectives.
3. Elsa:
reversesemanticpurpose,variablemeaning,andambiguitywithoutcreatingauthority.
4. JP:create the canonical CAPO for F-017 and its assumptions, inputs, out

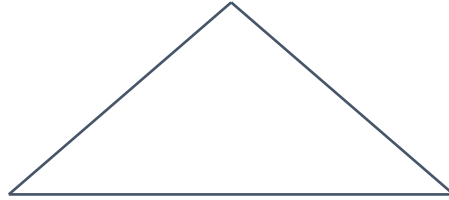
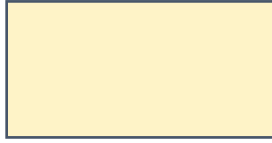
PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0050"
state R -> R1
node N1
representation JP(PINK-01-P0050)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ PBMEF Pink Paper Gateway Expression and Full Lifecycle 001.pdf, page 50 of 431. PRIVATE PRE-DAY-0 - UNSIG
```

NODE PLACEMENT / RAINBOW PATH



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

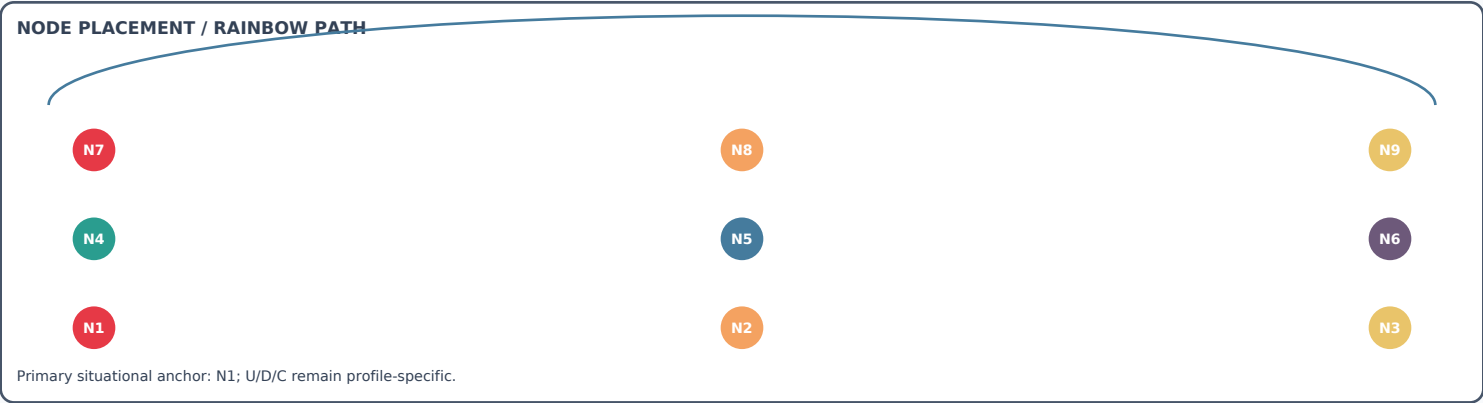
Pink source
 MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page
 51 of 431. Chapter 19 F-018 - Charge balance Exact expression $dQ/dt =$
 $I_{intake} - I_{leak} - I_{release}$ Meaning. Static-intakechargeaccounting. Bound
 manifestations.JP,MK,EVE,JO Gateway
 stage.JPcanonicalrepresentation,MKapplicability,JOproof, andboundedMJoutput
 Construct Formula-specific expression Module
 MJ_PBMEF.physics.balance_containment_evidence Namespace
 MJ_PBMEF.physics.balance_containment_evidence.F_018 Imp...

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_19_F_018_Charge_bala
reference "PINK-01-P0051"
state R -> R1
node N1
representation JP(PINK-01-P0051)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ PBMEF Pink Paper Gateway Expression and Full Lifecycle 001.pdf, page 51 of 431. Chapter 19 F-018 - Charge
```

R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 52 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper II - F001-F050 19.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-018anditsassumptions, inputs, out

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0052"
state R -> R1
node N1
representation JP(PINK-01-P0052)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 52 of 431. PRIVATE PRE-DAY-0 - UNSIG
```

Node Placement / Rainbow Path

R

R1

N1

U

D

C

OUT

Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source
MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 53 of 431. Chapter 20 F-019 - Capacitor energy Exact expression E = $0.5 \cdot C \cdot V^2$ Meaning. Valid only for evidence constant capacitance. Bound manifestations, JP, MK, JO Gateway stage. JP canonical representation, MK applicability, JO proof, and bounded MJ output Construct Formula-specific expression Module
MJ.PBMEF.physics.balance_containment_evidence Namespace
MJ.PBMEF.physics.balance_containment_evidence.F_019 Imp...

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

module MJ.Rainbow.Chapter_20_F_019_Capacitor_e
reference "PINK-01-P0053"
state R -> R1
node N1
representation JP(PINK-01-P0053)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 53 of 431. Chapter 20 F-019 - Capaci

Node Placement / Rainbow Path



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

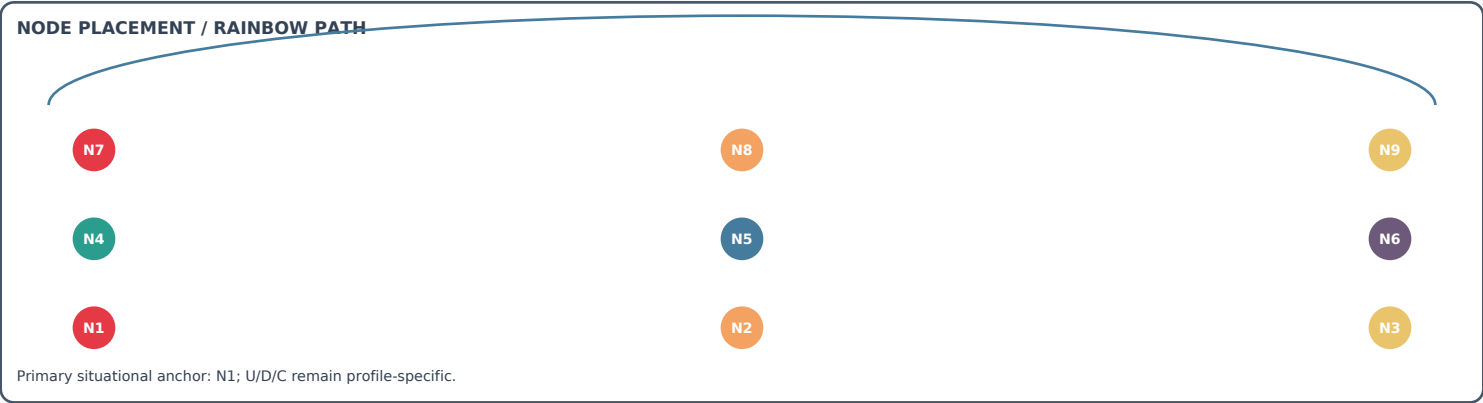
R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 54 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper II - F001-F050 20.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-019anditsassumptions, inputs, out

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0054"
state R -> R1
node N1
representation JP(PINK-01-P0054)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 54 of 431. PRIVATE PRE-DAY-0 - UNSIG
```

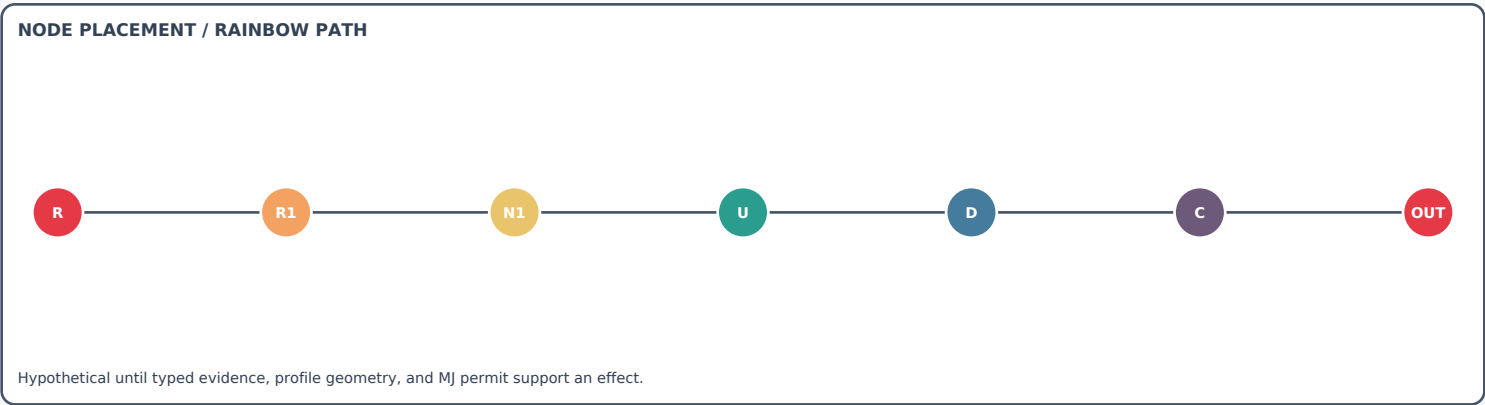


R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 55 of 431. Chapter 21 F-020 - General stored energy Exact expression E = integral V(q)dq Meaning. Generalcharge-storageenergy. Bound manifestations,JP,MK Gateway stage.JPcanonicalrepresentation,MKapplicability,JOproof,andboundedMJoutput Construct Formula-specific expression Module MJ.PBMEF.physics.balance_containment_evidence Namespace MJ.PBMEF.physics.balance_containment_evidence.F_020 Imp...

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_21_F_020_General_sto
reference "PINK-01-P0055"
state R -> R1
node N1
representation JP(PINK-01-P0055)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 55 of 431. Chapter 21 F-020 - Genera
```

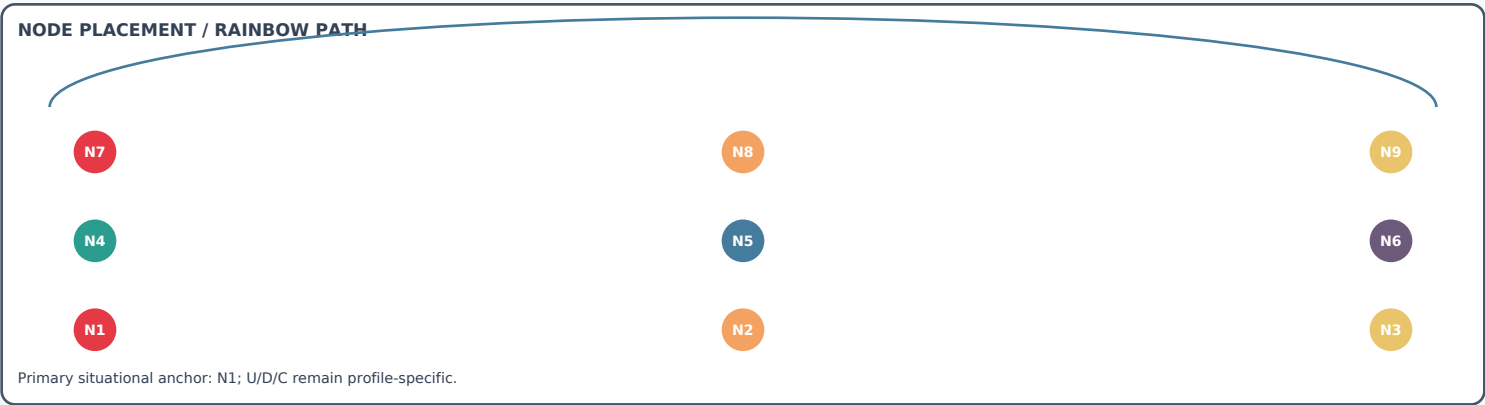


R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 56 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper II - F001-F050 21.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-020 and its assumptions, inputs, out

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0056"
state R -> R1
node N1
representation JP(PINK-01-P0056)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 56 of 431. PRIVATE PRE-DAY-0 - UNSIG
```



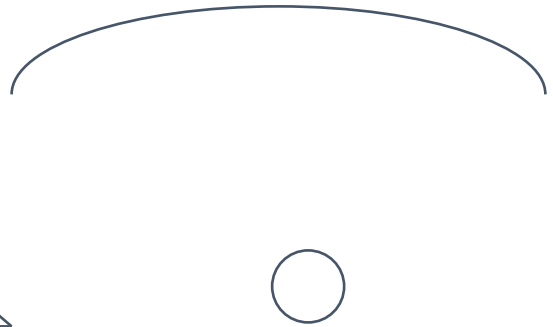
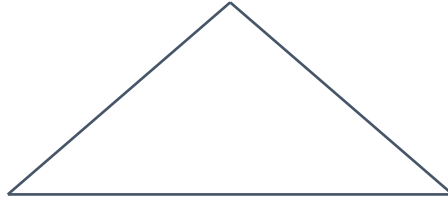
R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 57 of 431. Chapter 22 F-021 - Energy balance Exact expression $r_E = E_{in} - \Delta E_{storage} - E_{delivered} - E_{containment} - E_{loss}$ Meaning. Energyresidualmustbeinsideuncertainty. Bound manifestations.MK,JO,MERMAID Gateway stage.JPcanonicalrepresentation,MKapplicability,JOproof,andboundedMJoutput Construct Formula-specific expression Module MJ.PBMEF.physics.balance_containment_evidence Namesp...

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_22_F_021_Energy_bala
reference "PINK-01-P0057"
state R -> R1
node N1
representation JP(PINK-01-P0057)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 57 of 431. Chapter 22 F-021 - Energy
```

NODE PLACEMENT / RAINBOW PATH



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source
 MJ_PBMFE_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page
 58 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper II -
 F001-F050 22.2 Lifecycle from request to final output 1. R/R0:
 receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin:
 parsemodules,namespaces,declarations,literals,types,constraints,anddirectives.
 3. Elsa:
 reversesemanticpurpose,variablemeaning,andambiguitywithoutcreatingauthority.
 4. JP:create the canonical CAPOforF-021anditsassumptions,inputs,out

PATH OF EXPRESSION

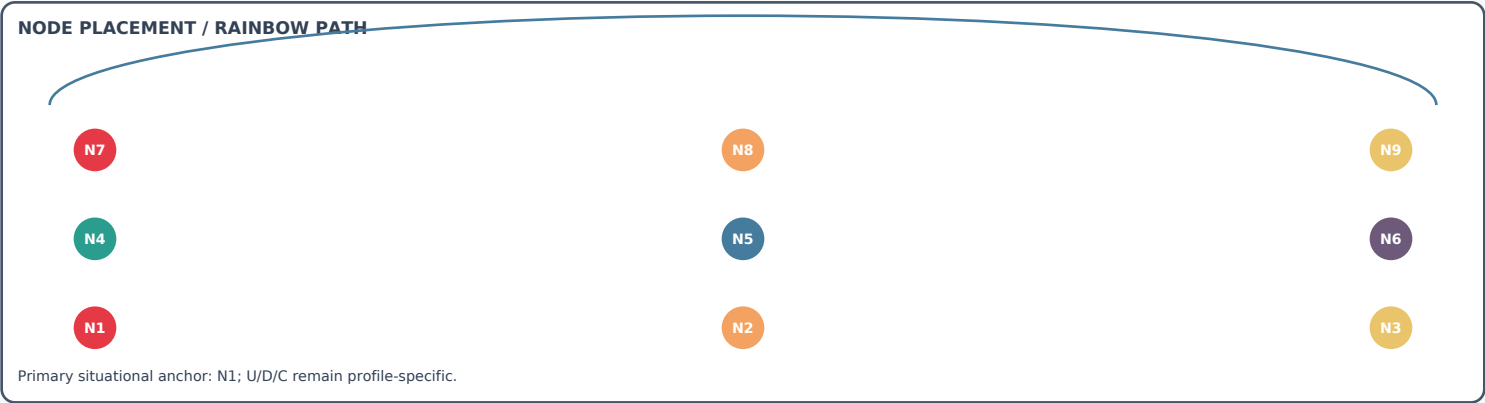
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```

module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0058"
state R -> R1
node N1
representation JP(PINK-01-P0058)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ PBMEF Pink Paper Gateway Expression and Full Lifecycle 001.pdf, page 58 of 431. PRIVATE PRE-DAY-0 - UNSIG

```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 59 of 431. Chapter 23 F-022 - Mass balance Exact expression $r_M = M_{\text{initial}} + M_{\text{inputs}} - M_{\text{final}} - M_{\text{outputs}}$ Meaning. Physicalmassconservation. Bound manifestations.MK,EVE,JO,MERMAID Gateway stage.JPcanonicalrepresentation,MKapplicability,JOproof,andboundedMJoutput Construct Formula-specific expression Module MJ.PBMEF.physics.balance_containment_evidence Namespace MJ.PBMEF.physics.balance_containment_evidence.F_022 Import MJ.PB

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_23_F_022_Mass_balanc
reference "PINK-01-P0059"
state R -> R1
node N1
representation JP(PINK-01-P0059)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 59 of 431. Chapter 23 F-022 - Mass b
```


Node Placement / Rainbow Path

Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source

MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 60 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper II - F001-F050 23.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-022anditsassumptions, inputs, out

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0060"
state R -> R1
node N1
representation JP(PINK-01-P0060)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 60 of 431. PRIVATE PRE-DAY-0 - UNSIG
```

NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source
MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 61 of 431. Chapter 24 F-023 - EVE screen balance Exact expression
M_screen_in = M_captured + M_passed + M_retained + r_screen Meaning. Screen capture never assumes perfect retention. Bound manifestations. EVE, MK, JO, MERMAID Gateway stage. Sister/EVE/MK/JO containment simulation evidence before MJ permit Construct Formula-specific expression Module MJ.PBMEF.physics.balance_containment_evidence Namesp...

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_24_F_023_EVE_screen_
reference "PINK-01-P0061"
state R -> R1
node N1
representation JP(PINK-01-P0061)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 61 of 431. Chapter 24 F-023 - EVE sc
```

Node Placement / Rainbow Path



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

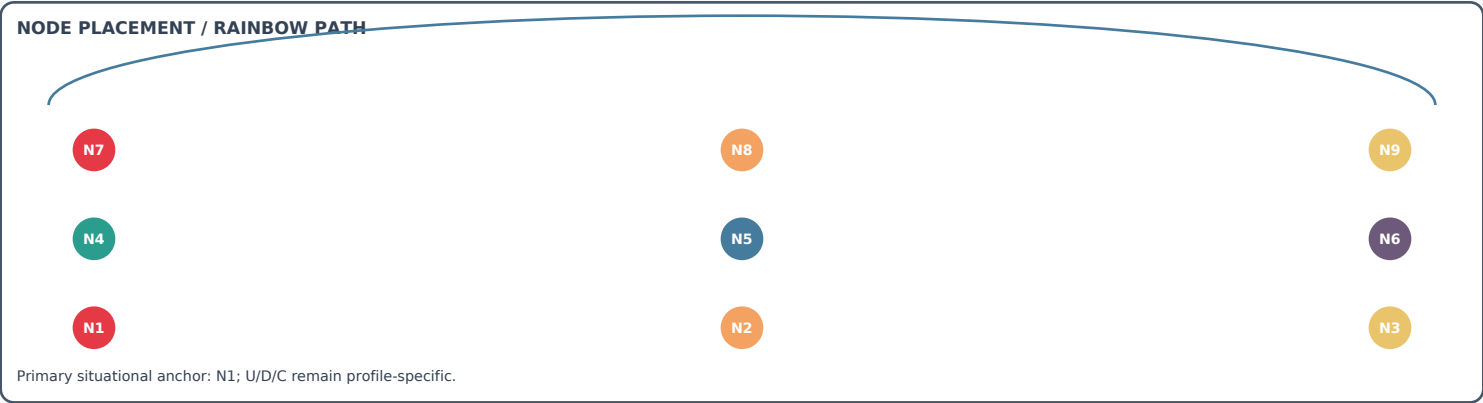
Pink source
MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 62 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper II - F001-F050 24.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-023 and its assumptions, inputs, out

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0062"
state R -> R1
node N1
representation JP(PINK-01-P0062)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 62 of 431. PRIVATE PRE-DAY-0 - UNSIG
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 63 of 431. Chapter 25 F-024 - EVE evaporation Exact expression M_evap = integral integral J_m dA dt Meaning. Evaporativemassfromfluxacrossareaandtime. Bound manifestations.EVE,MK,JO Gateway stage.JPcanonicalrepresentation,MKapplicability,JOproof,andboundedMJoutput Construct Formula-specific expression Module MJ.PBMEF.physics.balance_containment_evidence Namesp...

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_25_F_024_EVE_evapora
reference "PINK-01-P0063"
state R -> R1
node N1
representation JP(PINK-01-P0063)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 63 of 431. Chapter 25 F-024 - EVE ev
```

Node Placement / Rainbow Path



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

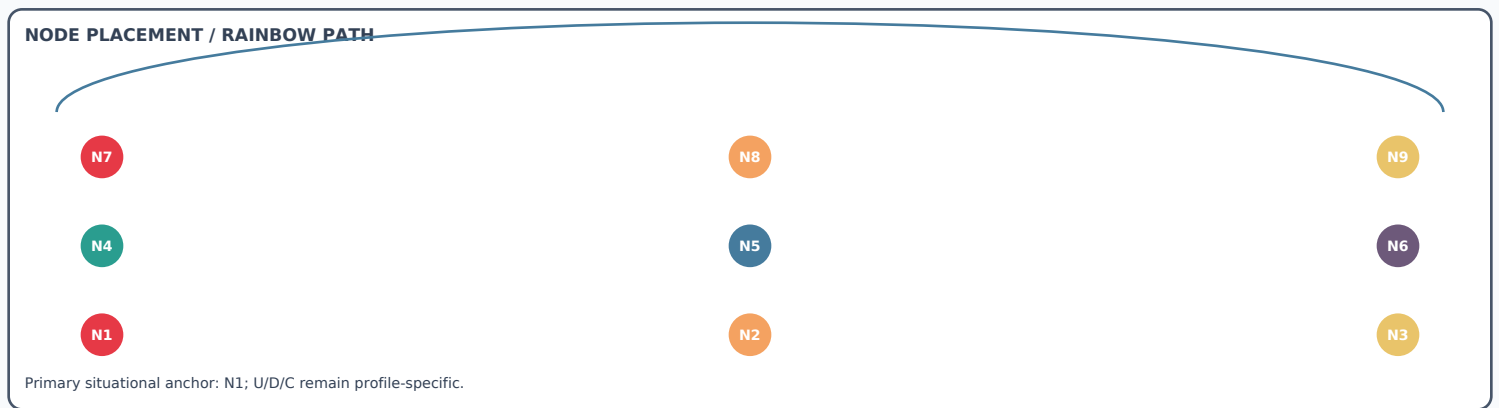
Pink source
MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 64 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper II - F001-F050 25.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-024 and its assumptions, inputs, out

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0064"
state R -> R1
node N1
representation JP(PINK-01-P0064)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 64 of 431. PRIVATE PRE-DAY-0 - UNSIG
```



R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

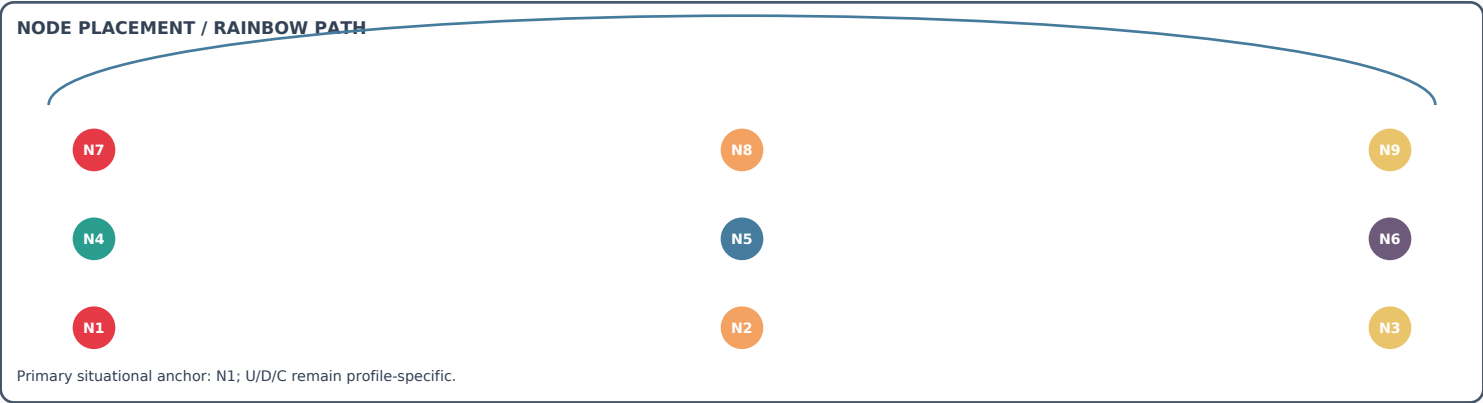
Pink source
 MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page
 65 of 431. Chapter 26 F-025 - Upward force Exact expression $F_z = qE_z + F_b$
 - mg - D_z - $F_{contact}$ - $F_{adhesion}$ Meaning.
 Upward motion requires positive conservative lower bound. Bound
 manifestations. MK, EVE, BELLE Gateway
 stage. JPCanonical representation, MKApplicability, JOproof, and bounded MJoutput
 Construct Formula-specific expression Module
 MJ_PBMEF.physics.balance_containment_evidence Namesp...

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_26_F_025_Upward_forc
reference "PINK-01-P0065"
state R -> R1
node N1
representation JP(PINK-01-P0065)
physics MK(classify, units, boundary, uncertainty)
verify JO(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 65 of 431. Chapter 26 F-025 - Upward
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 66 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper II - F001-F050 26.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-025anditsassumptions, inputs, out

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0066"
state R -> R1
node N1
representation JP(PINK-01-P0066)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 66 of 431. PRIVATE PRE-DAY-0 - UNSIG
```

Node Placement / Rainbow Path



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source
MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 67 of 431. Chapter 27 F-026 - Coordinate mapping Exact expression
 $p_P(x,y,z)=o_P+x*a_P+y*b_P+z*c_P$ Meaning.
Normalizedtopologytoprofilephysicalcoordinates. Bound manifestations.JP,MK,BELLE,JO Gateway stage.JPcanonicalrepresentation,MKapplicability,JOproof,andboundedMJoutput Construct Formula-specific expression Module MJ.PBMEF.physics.balance_containment_evidence Namesp...

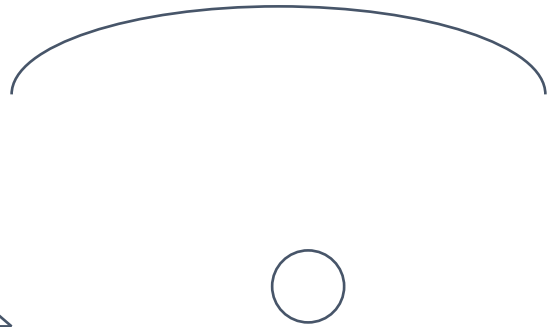
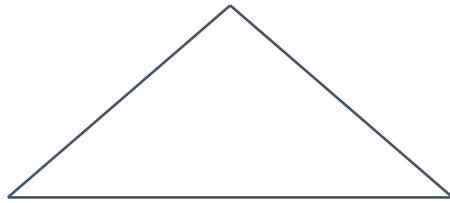
Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.Chapter_27_F_026_Coordinate_
reference "PINK-01-P0067"
state R -> R1
node N1
representation JP(PINK-01-P0067)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 67 of 431. Chapter 27 F-026 - Coordi
```


NODE PLACEMENT / RAINBOW PATH



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

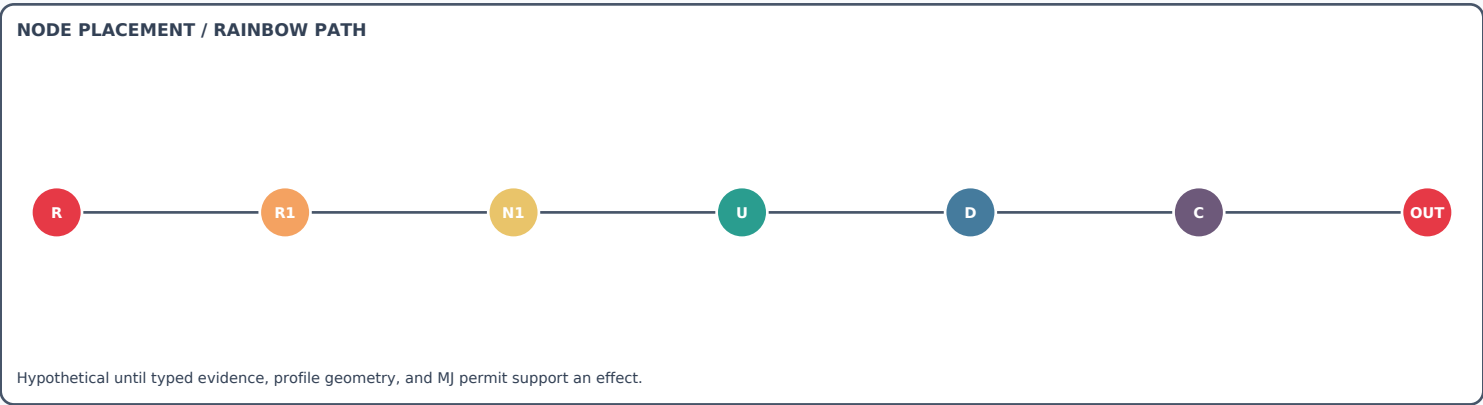
Pink source
 MJ_PBMFE_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page
 68 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper II -
 F001-F050 27.2 Lifecycle from request to final output 1. R/R0:
 receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin:
 parsemodules,namespaces,declarations,literals,types,constraints,anddirectives.
 3. Elsa:
 reversesemanticpurpose,variablemeaning,andambiguitywithoutcreatingauthority.
 4. JP:create the canonical CAPOforF-026anditsassumptions,inputs,out

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0068"
state R -> R1
node N1
representation JP(PINK-01-P0068)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ PBMEF Pink Paper Gateway Expression and Full Lifecycle 001.pdf, page 68 of 431. PRIVATE PRE-DAY-0 - UNSIG
```

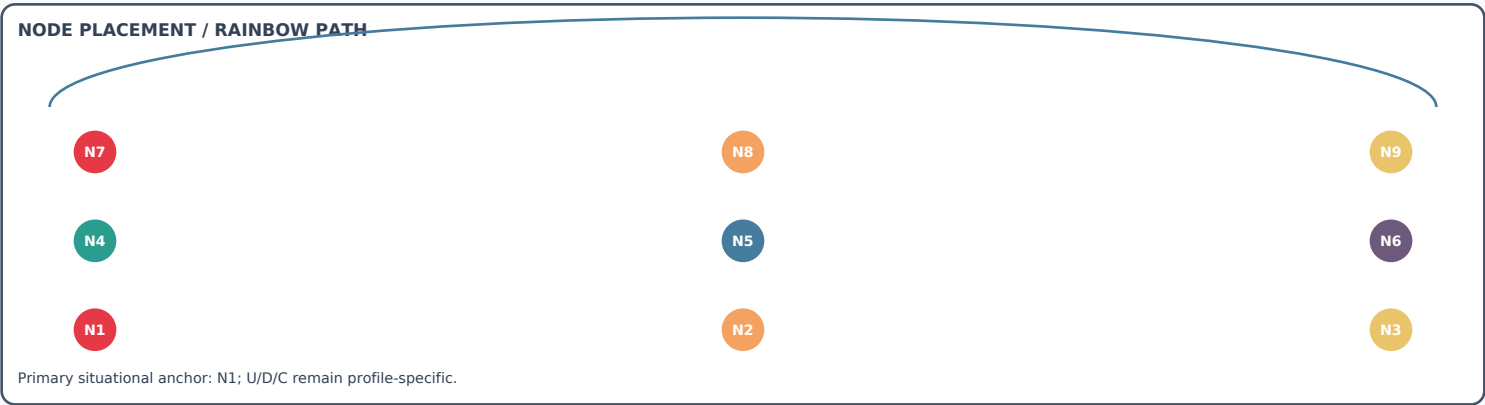


R Status / Observation	Source Rule / Intent
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 69 of 431. Chapter 28 F-027 - Sister physical umbrella count Exact expression $N_U = \max_k \text{ceil}(E_k / ((1-h_k) * C_{Uk}))$ Meaning. Canonical pre-Pearl physical containment count; requires measured profile-specific capacity and headroom. Bound manifestations. SISTER, MK, JO, M3 Gateway stage. Sister/EVE/MK/JO containment or simulation evidence before MJ permit Construct Formula-specific expression Module MJ.PBMEF.physics.balance_containment_evidence Namesp

Path of Expression
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.Chapter_28_F_027_Sister_phys
reference "PINK-01-P0069"
state R -> R1
node N1
representation JP(PINK-01-P0069)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 69 of 431. Chapter 28 F-027 - Sister
```

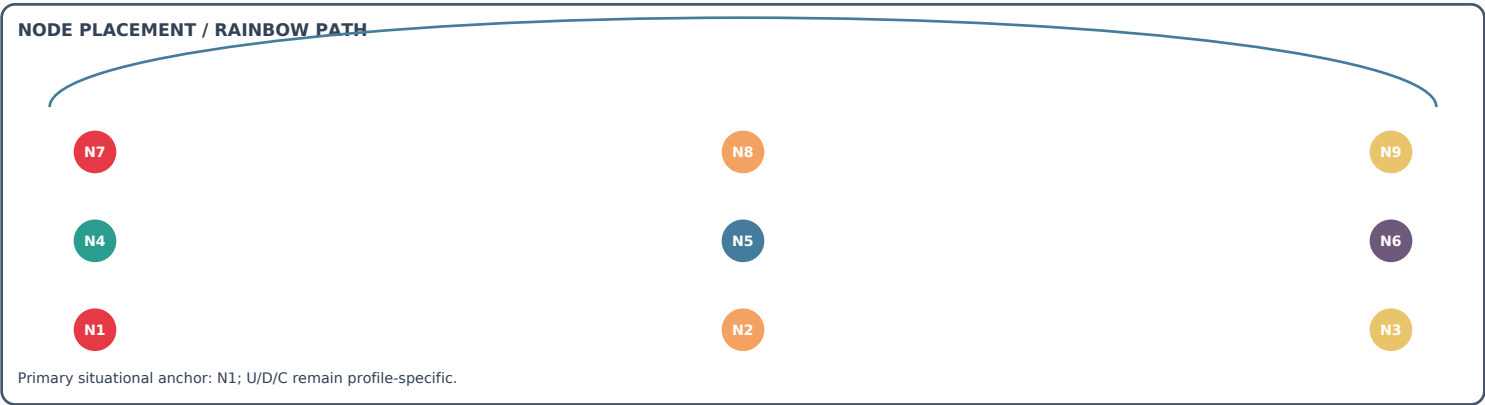


R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 70 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper II - F001-F050 28.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-027anditsassumptions, inputs, out

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0070"
state R -> R1
node N1
representation JP(PINK-01-P0070)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 70 of 431. PRIVATE PRE-DAY-0 - UNSIG
```

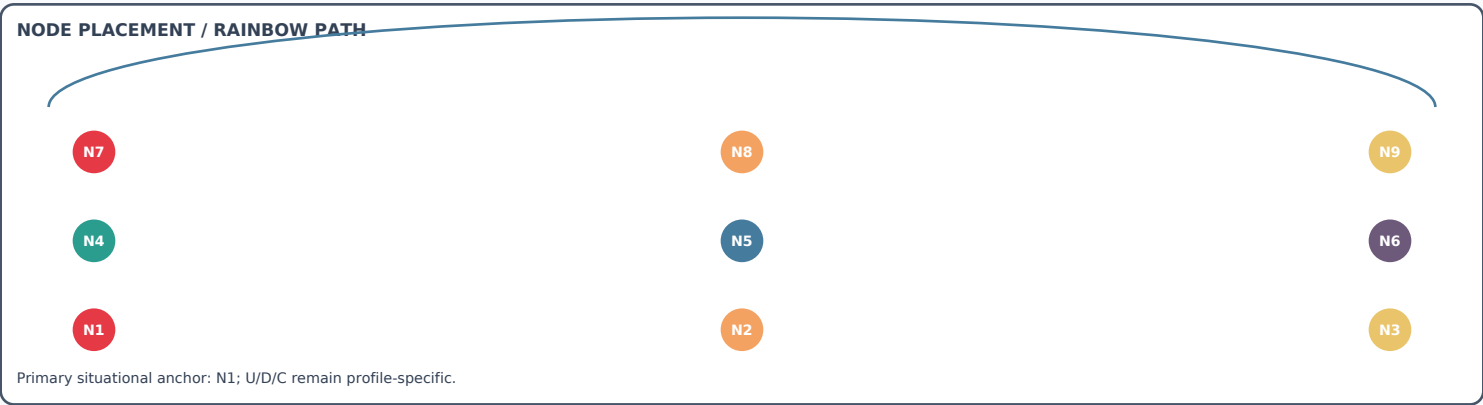


R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 71 of 431. Chapter 29 F-028 - Byte balance Exact expression $r_B = B_alloc-B_active-B_released-B_retained-B_exported-B_compacted$ Meaning. Discretememoryreconciliationrequireszeroresidualunlesstransformed. Bound manifestations.JO,M3,MERMAID Gateway stage.JPcanonicalrepresentation,MKapplicability,JOproof,andboundedMJoutput Construct Formula-specific expression Module MJ.PBMEF.physics.balance_containment_evidence Namespace MJ.PBMEF

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_29_F_028_Byte_balanc
reference "PINK-01-P0071"
state R -> R1
node N1
representation JP(PINK-01-P0071)
physics MK(classify, units, boundary, uncertainty)
verify JO(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 71 of 431. Chapter 29 F-028 - Byte b
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 72 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper II - F001-F050 29.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules,namespaces,declarations,literals,types,constraints,anddirectives. 3. Elsa: recoversemanticpurpose,variablemeaning,andambiguitywithoutcreatingauthority. 4. JP:createthecanonicalCAPOforF-028anditsassumptions,inputs,out

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0072"
state R -> R1
node N1
representation JP(PINK-01-P0072)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 72 of 431. PRIVATE PRE-DAY-0 - UNSIG
```

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

Source Rule / Intent

Pink source

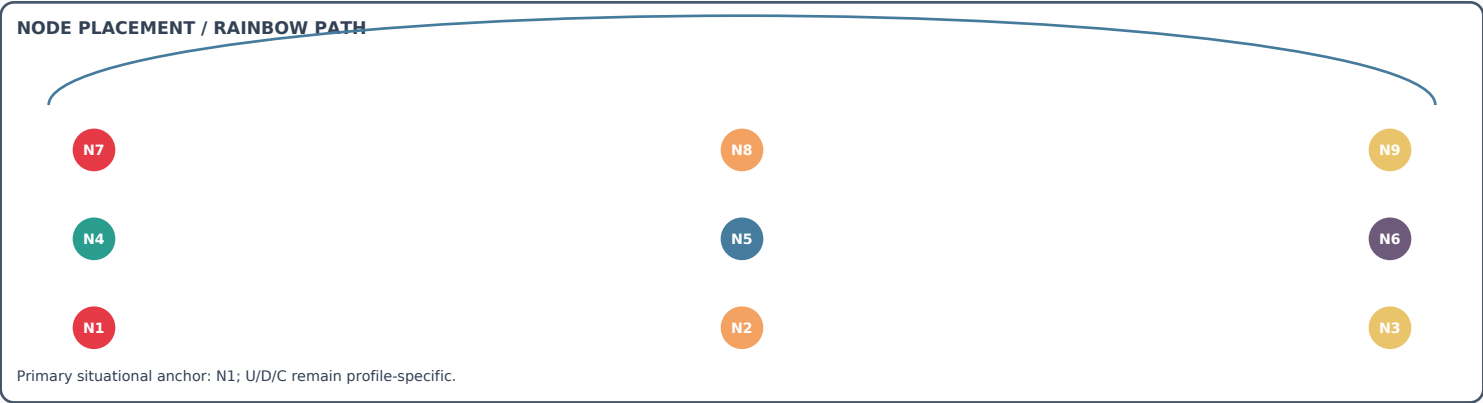
MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 73 of 431. Chapter 30 F-029 - Residual consequence Exact expression C_B = integral B_residual(t)dt Meaning. Time-weightedresidualmemoryconsequence. Bound manifestations.JO,M3,MERMAID Gateway stage.JPcanonicalrepresentation,MKapplicability,JOproof,andboundedMJoutput Construct Formula-specific expression Module MJ.PBMEF.physics.balance_containment_evidence Namespace MJ.PBMEF.physics.balance_containment_evidence.F_029 Import MJ.PB

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_30_F_029_Residual_co
reference "PINK-01-P0073"
state R -> R1
node N1
representation JP(PINK-01-P0073)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 73 of 431. Chapter 30 F-029 - Residu
```

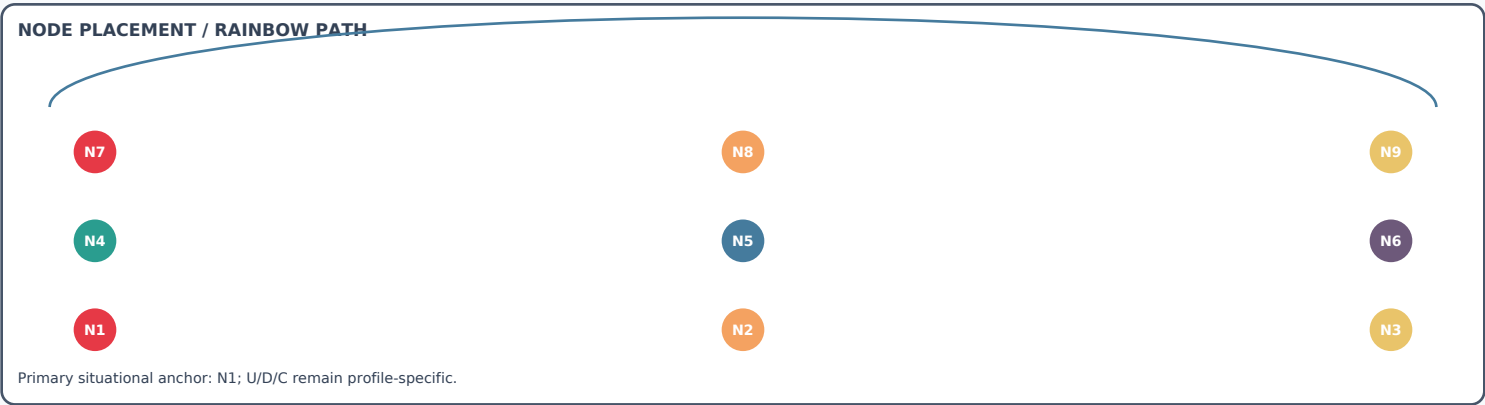


R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 74 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper II - F001-F050 30.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-029anditsassumptions, inputs, out

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0074"
state R -> R1
node N1
representation JP(PINK-01-P0074)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 74 of 431. PRIVATE PRE-DAY-0 - UNSIG
```

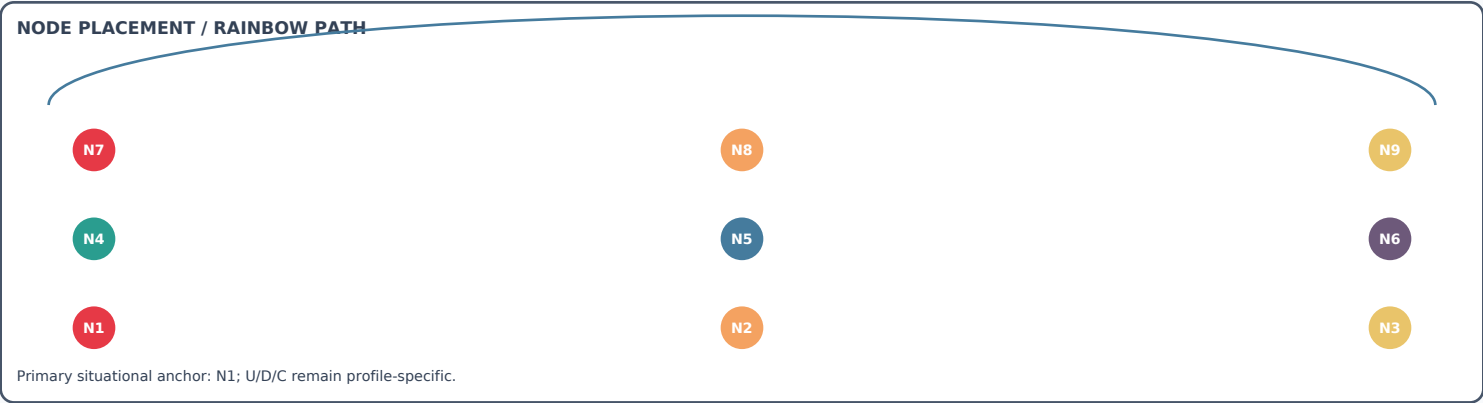


R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 75 of 431. Chapter 31 F-030 - Protected liquidity Exact expression L_protected_H = O_near_H+R_emergency_H+R_tax_H+R_fees_H+U_cash_H Meaning. Liquidityfirst. Bound manifestations.SHIVA,MERMAID,MK,JO Gateway stage.Mermaid/ShivafinancialanalysisandreconciliationbeforeMJdecision Construct Formula-specific expression Module MJ.PBMEF.finance.portfolio_mk_integrity Namespace MJ.PBMEF.finance.portfolio_mk_integrity.F_030 Import MJ.PBME

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> Mj bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_31_F_030_Protected_l
reference "PINK-01-P0075"
state R -> R1
node N1
representation JP(PINK-01-P0075)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 75 of 431. Chapter 31 F-030 - Protec
```

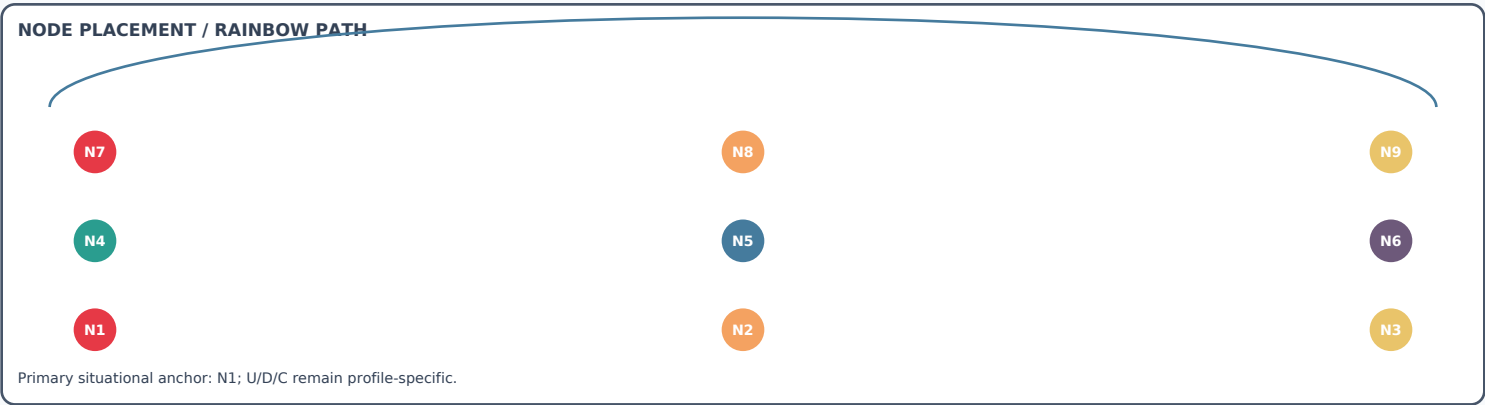



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 76 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper II - F001-F050 31.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-030anditsassumptions, inputs, out

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0076"
state R -> R1
node N1
representation JP(PINK-01-P0076)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 76 of 431. PRIVATE PRE-DAY-0 - UNSIG
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 77 of 431. Chapter 32 F-031 - Investable surplus Exact expression $S_{investable_L} = \max(0, L_{available_L-L_protected_H})$ Meaning. Onlysurplusmayenterriskanalysis. Bound manifestations.SHIVA,MERMAID,JO Gateway stage.JPcanonicalrepresentation,MKapplicability,JOproof,andboundedMJoutput Construct Formula-specific expression Module MJ.PBMEF.finance.portfolio_mk_integrity Namesp...

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_32_F_031_Investable_  
reference "PINK-01-P0077"  
state R -> R1  
node N1  
representation JP(PINK-01-P0077)  
physics MK(classify, units, boundary, uncertainty)  
verify J0(types, evidence, receipts)  
if all_required_gates == PASS:  
MJ.permit -> R2 -> bounded_output  
else:  
HOLD | FAIL_TECHNICAL | DENY  
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 77 of 431. Chapter 32 F-031 - Invest
```

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source

MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 78 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper II - F001-F050 32.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-031anditsassumptions, inputs, out

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R

reference "PINK-01-P0078"

state R -> R1

node N1

representation JP(PINK-01-P0078)

physics MK(classify, units, boundary, uncertainty)

verify J0(types, evidence, receipts)

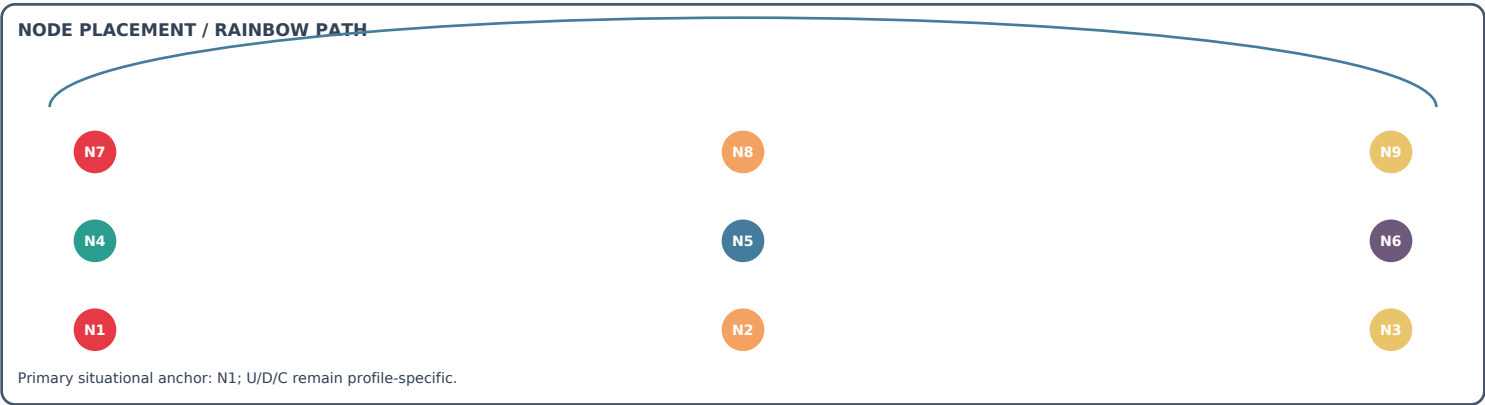
if all_required_gates == PASS:

MJ.permit -> R2 -> bounded_output

else:

HOLD | FAIL_TECHNICAL | DENY

Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 78 of 431. PRIVATE PRE-DAY-0 - UNSIG



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 79 of 431. Chapter 33 F-032 - Risk-capital ceiling Exact expression A_risk_max = min(S_investable_L,L_risk,L_product,L_regulatory,L_custody,L_concentration) Meaning. Hardminimumacrossconstraints. Bound manifestations.SHIVA,MERMAID,MK,MJ Gateway stage.Mermaid/ShivafinancialanalysisandreconciliationbeforeMJdecision Construct Formula-specific expression Module MJ.PBMEF.finance.portfolio_mk_integrity Namespace MJ.PBMEF.finance.port

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_33_F_032_Risk_capita
reference "PINK-01-P0079"
state R -> R1
node N1
representation JP(PINK-01-P0079)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 79 of 431. Chapter 33 F-032 - Risk-c
```

Node Placement / Rainbow Path



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

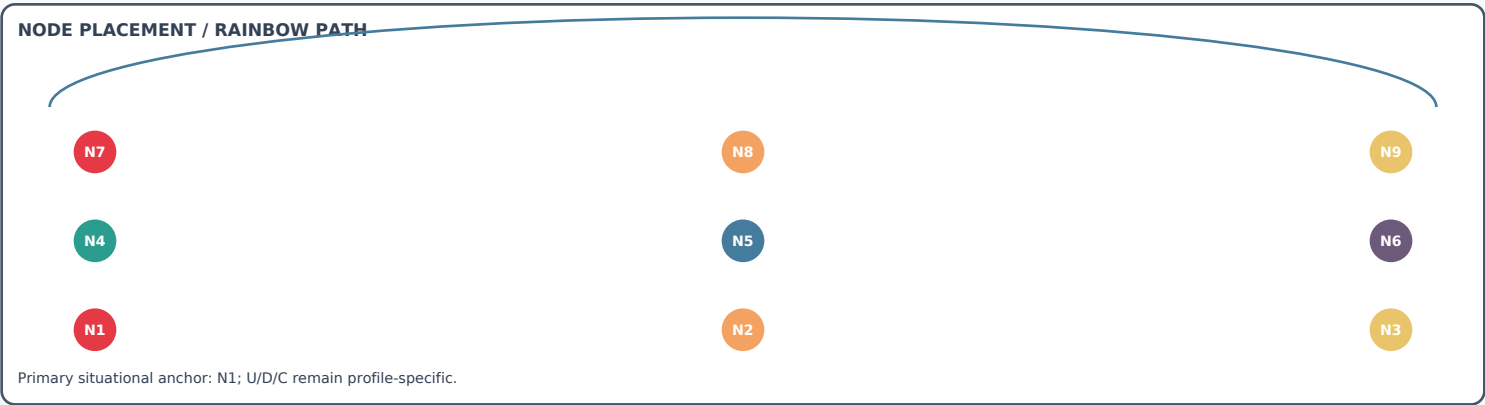
R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 80 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper II - F001-F050 33.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-032anditsassumptions, inputs, out

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0080"
state R -> R1
node N1
representation JP(PINK-01-P0080)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 80 of 431. PRIVATE PRE-DAY-0 - UNSIG
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 81 of 431. Chapter 34 F-033 - Portfolio concentration Exact expression $C_i = \text{abs}(V_i_H)/V_{\text{portfolio}_L}$ Meaning. Assetconcentration. Bound manifestations.SHIVA,MERMAID,JO Gateway stage.Mermaid/ShivafinancialanalysisandreconciliationbeforeMJdecision Construct Formula-specific expression Module MJ.PBMEF.finance.portfolio_mk_integrity Namespace MJ.PBMEF.finance.portfolio_mk_integrity.F_033 Imp...

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_34_F_033_Portfolio_c
reference "PINK-01-P0081"
state R -> R1
node N1
representation JP(PINK-01-P0081)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 81 of 431. Chapter 34 F-033 - Portfo
```

Node Placement / Rainbow Path

Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source

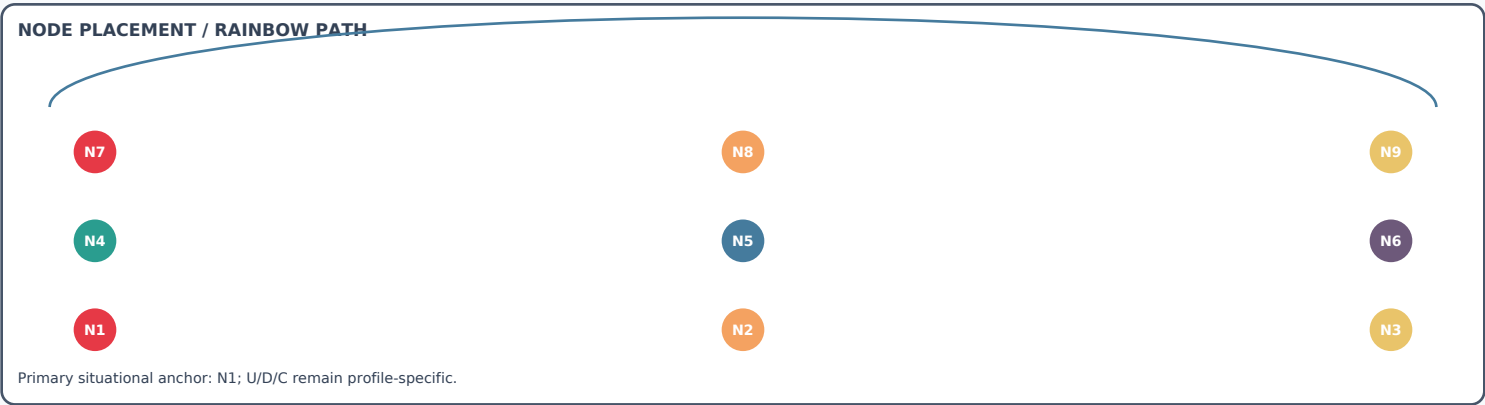
MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 82 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper II - F001-F050 34.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-033 and its assumptions, inputs, out

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0082"
state R -> R1
node N1
representation JP(PINK-01-P0082)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 82 of 431. PRIVATE PRE-DAY-0 - UNSIG
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 83 of 431. Chapter 35 F-034 - Portfolio variance Exact expression sigma_p^2 = w^T Sigma w Meaning. Portfolio variance with evidence covariance. Bound manifestations. SHIVA, MERMAID, MK Gateway stage. Mermaid/Shiva financial analysis and reconciliation before MJ decision Construct Formula-specific expression Module MJ.PBMEF.finance.portfolio_mk_integrity Namespace MJ.PBMEF.finance.portfolio_mk_integrity.F_034 Imp...

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> Mj bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_35_F_034_Portfolio_v
reference "PINK-01-P0083"
state R -> R1
node N1
representation JP(PINK-01-P0083)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 83 of 431. Chapter 35 F-034 - Portfo
```


Node Placement / Rainbow Path

Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source

MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 84 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper II - F001-F050 35.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-034 and its assumptions, inputs, out

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0084"
state R -> R1
node N1
representation JP(PINK-01-P0084)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 84 of 431. PRIVATE PRE-DAY-0 - UNSIG
```

Node Placement / Rainbow Path



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 85 of 431. Chapter 36 F-035 - Capital friction Exact expression $F_{capital_H} = \text{fees} + \text{spread} + \text{slippage} + \text{tax} + \text{custody} + \text{compliance} + \text{latency}$ Meaning. Typedtransactionalfriktion. Bound manifestations.MK,SHIVA,MERMAID Gateway stage.Mermaid/ShivafinancialanalysisandreconciliationbeforeMJdecision Construct Formula-specific expression Module MJ.PBMEF.finance.portfolio_mk_integrity Namespace MJ.PBMEF.finance.portfolio_mk_integrity.F_035 Import

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_36_F_035_Capital_fri
reference "PINK-01-P0085"
state R -> R1
node N1
representation JP(PINK-01-P0085)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 85 of 431. Chapter 36 F-035 - Capita
```

Node Placement / Rainbow Path



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

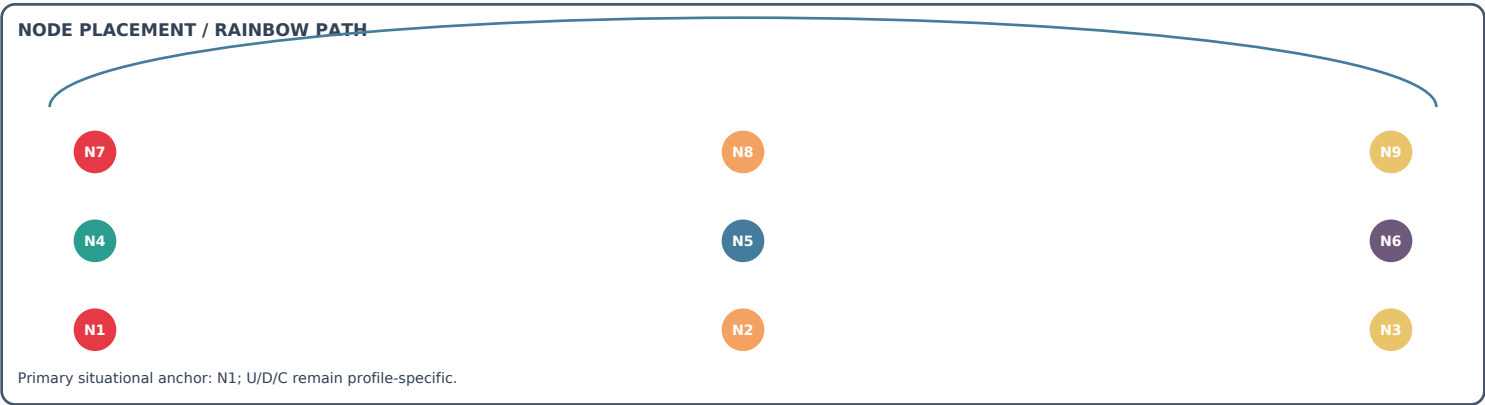
Pink source
MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 86 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper II - F001-F050 36.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-035 and its assumptions, inputs, out

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0086"
state R -> R1
node N1
representation JP(PINK-01-P0086)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 86 of 431. PRIVATE PRE-DAY-0 - UNSIG
```

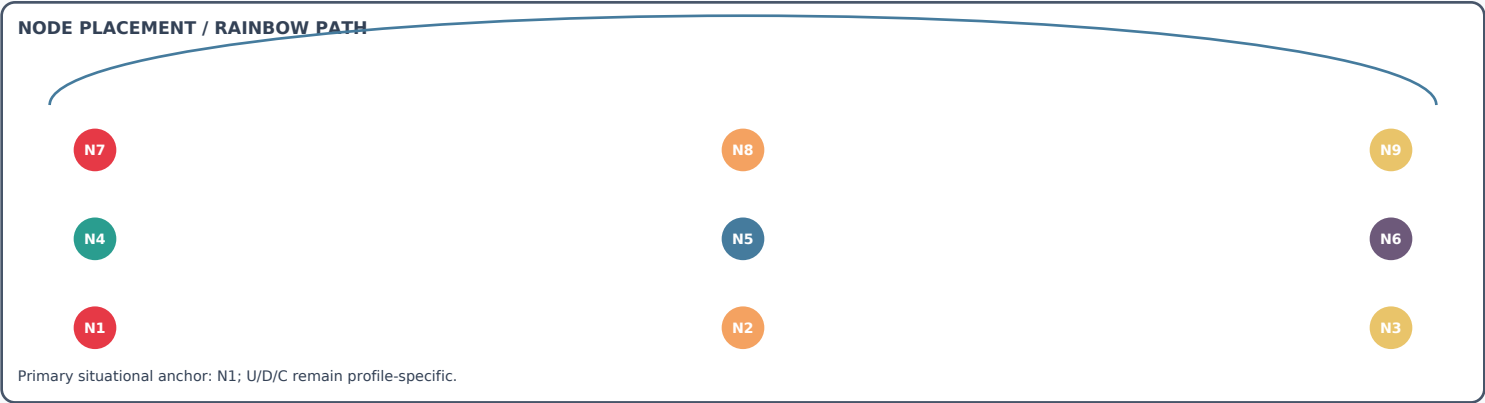


R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 87 of 431. Chapter 37 F-036 - Opportunity lower bound Exact expression O_L = Return_L-F_capital_H-RiskPenalty_H-LiquidityPenalty_H-RegulatoryUncertainty_H Meaning. Conservativeopportunityresult. Bound manifestations.SHIVA,MK,MERMAID,MJ Gateway stage.JPcanonicalrepresentation,MKapplicability,JOproof,andboundedMJoutput Construct Formula-specific expression Module MJ.PBMEF.finance.portfolio_mk_integrity Namespace MJ.PBMEF.finance.

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_37_F_036_Opportunity
reference "PINK-01-P0087"
state R -> R1
node N1
representation JP(PINK-01-P0087)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 87 of 431. Chapter 37 F-036 - Opport
```

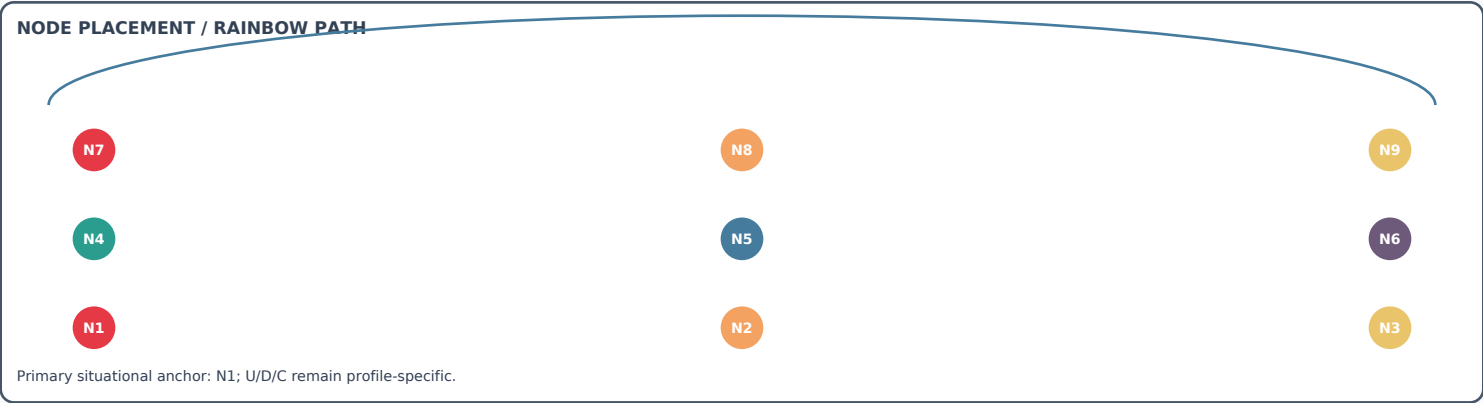


R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 88 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper II - F001-F050 37.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-036anditsassumptions, inputs, out

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0088"
state R -> R1
node N1
representation JP(PINK-01-P0088)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 88 of 431. PRIVATE PRE-DAY-0 - UNSIG
```



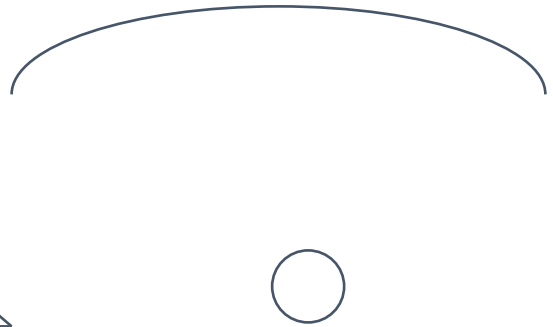
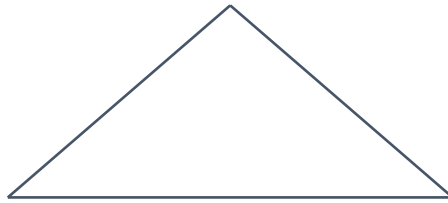
R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 89 of 431. Chapter 38 F-037 - Abundance objective Exact expression A = $\sum(\alpha_i * P_i) - \sum(\beta_j * N_j)$ Meaning. Only valid with precommitted weights and compatible scales. Bound manifestations. SHIVA, MK, JO, MJ Gateway stage. JP canonical representation, MK applicability, JO proof, and bounded MJ output Construct Formula-specific expression Module MJ.PBMEF.finance.portfolio_mk_integrity Namesp...

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_38_F_037_Abundance_o
reference "PINK-01-P0089"
state R -> R1
node N1
representation JP(PINK-01-P0089)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 89 of 431. Chapter 38 F-037 - Abunda
```

NODE PLACEMENT / RAINBOW PATH



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source
 MJ_PBMFE_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page
 90 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper II -
 F001-F050 38.2 Lifecycle from request to final output 1. R/R0:
 receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin:
 parsemodules,namespaces,declarations,literals,types,constraints,anddirectives.
 3. Elsa:
 reversesemanticpurpose,variablemeaning,andambiguitywithoutcreatingauthority.
 4. JP:create the canonical CAPOfor F-037 and its assumptions, inputs, out

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0090"
state R -> R1
node N1
representation JP(PINK-01-P0090)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ PBMEF Pink Paper Gateway Expression and Full Lifecycle 001.pdf, page 90 of 431. PRIVATE PRE-DAY-0 - UNSIG
```

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 91 of 431. Chapter 39 F-038 - SHIVAS eligible value Exact expression $V_{eligible_L} = \max(0, V_{verified_L-L_known_H-U_valuation_H})$ Meaning. Internal valuation lower bound. Bound manifestations. SHIVA, MERMAID, JO Gateway stage. Mermaid/Shiva financial analysis and reconciliation before MJ decision Construct Formula-specific expression Module MJ.PBMEF.finance.portfolio_mk_integrity Namesp...

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.Chapter_39_F_038_SHIVAS_elig
reference "PINK-01-P0091"
state R -> R1
node N1
representation JP(PINK-01-P0091)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 91 of 431. Chapter 39 F-038 - SHIVAS
```


Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source

MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 92 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper II - F001-F050 39.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-038anditsassumptions, inputs, out

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R

reference "PINK-01-P0092"

state R -> R1

node N1

representation JP(PINK-01-P0092)

physics MK(classify, units, boundary, uncertainty)

verify J0(types, evidence, receipts)

if all_required_gates == PASS:

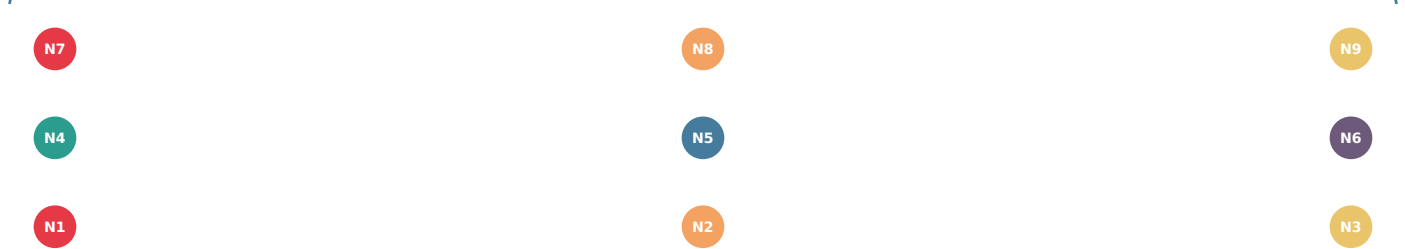
MJ.permit -> R2 -> bounded_output

else:

HOLD | FAIL_TECHNICAL | DENY

Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 92 of 431. PRIVATE PRE-DAY-0 - UNSIG

NODE PLACEMENT / RAINBOW PATH



Primary situational anchor: N1; U/D/C remain profile-specific.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source
 MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page
 93 of 431. Chapter 40 F-039 - SHIVAS ceiling Exact expression
 $N_{\max} = \text{floor}(V_{\text{eligible}} / L/B_{\text{unit_H}})$ Meaning.
 Onlywhenbacking, rights, classification, and evidence are known. Bound
 manifestations. SHIVA, MERMAID, MJ Gateway
 stage. Mermaid/Shiva financial analysis and reconciliation before MJ decision
 Construct Formula-specific expression Module
 MJ_PBMEF.finance.portfolio_mk_integrity.Namesp...

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_40_F_039_SHIVAS_ceil
reference "PINK-01-P0093"
state R -> R1
node N1
representation JP(PINK-01-P0093)
physics MK(classify, units, boundary, uncertainty)
verify JO(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 93 of 431. Chapter 40 F-039 - SHIVAS
```



Pink source
MJ_PBMF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page
94 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper II -
F001-F050 40.2 Lifecycle from request to final output 1. R/RO:
receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin:
parsemodules,namespaces,declarations,literals,types,constraints,anddirectives.
3. Elsa:
reversesemanticpurpose,variablemeaning,andambiguitywithoutcreatingauthority.
4. JP:create the canonical CAPO for F-039 and its assumptions, inputs, out

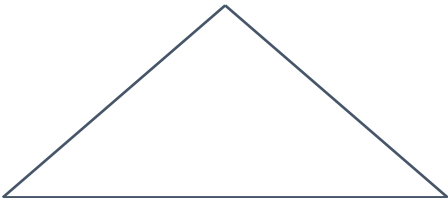
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0094"
state R -> R1
node N1
representation JP(PINK-01-P0094)
physics MK(classify, units, boundary, uncertainty)
verify JO(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ PBMEF Pink Paper Gateway Expression and Full Lifecycle 001.pdf, page 94 of 431. PRIVATE PRE-DAY-0 - UNSIG
```

NODE PLACEMENT / RAINBOW PATH



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.



R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

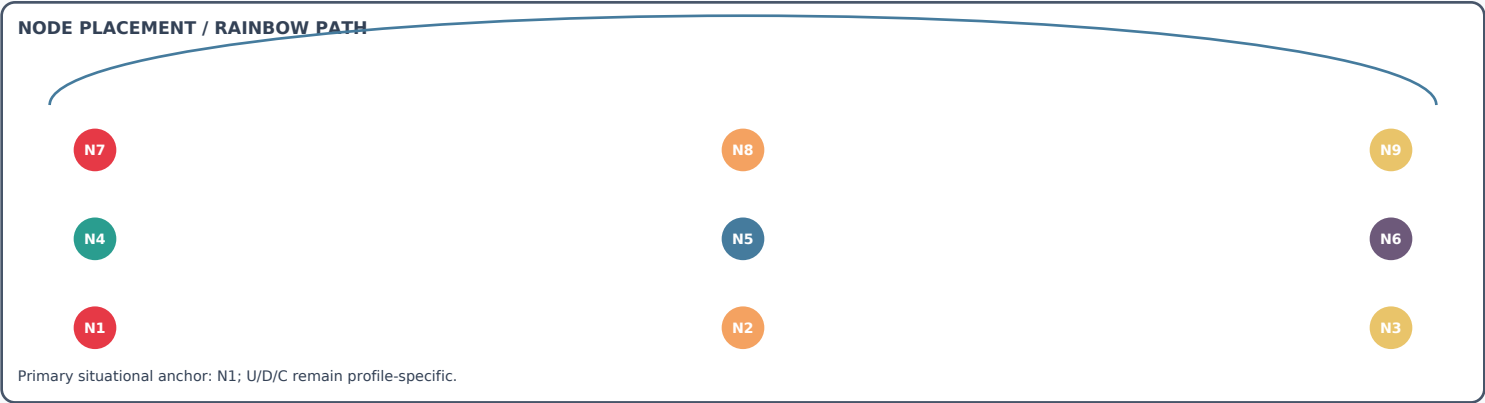
Pink source
MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 95 of 431. Chapter 41 F-040 - MK state model Exact expression $x[t+1]=F(x[t],u[t],\theta,e[t])+w[t]$; $y[t]=H(x[t])+v[t]$ Meaning. Generalphysicsstateandobservationrepresentation. Bound manifestations.MK,JP,JO Gateway stage.JPcanonicalrepresentation,MKapplicability,JOproof,andboundedMJoutput Construct Formula-specific expression Module MJ.PBMEF.finance.portfolio_mk_integrity Namesp...

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_41_F_040_MK_state_mo
reference "PINK-01-P0095"
state R -> R1
node N1
representation JP(PINK-01-P0095)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 95 of 431. Chapter 41 F-040 - MK sta
```



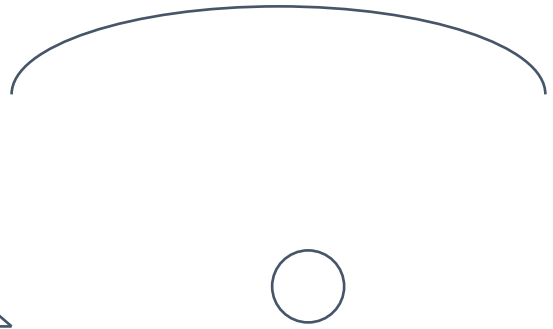
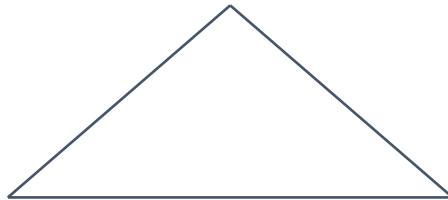
R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 96 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper II - F001-F050 41.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-040anditsassumptions, inputs, out

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0096"
state R -> R1
node N1
representation JP(PINK-01-P0096)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 96 of 431. PRIVATE PRE-DAY-0 - UNSIG
```

NODE PLACEMENT / RAINBOW PATH



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

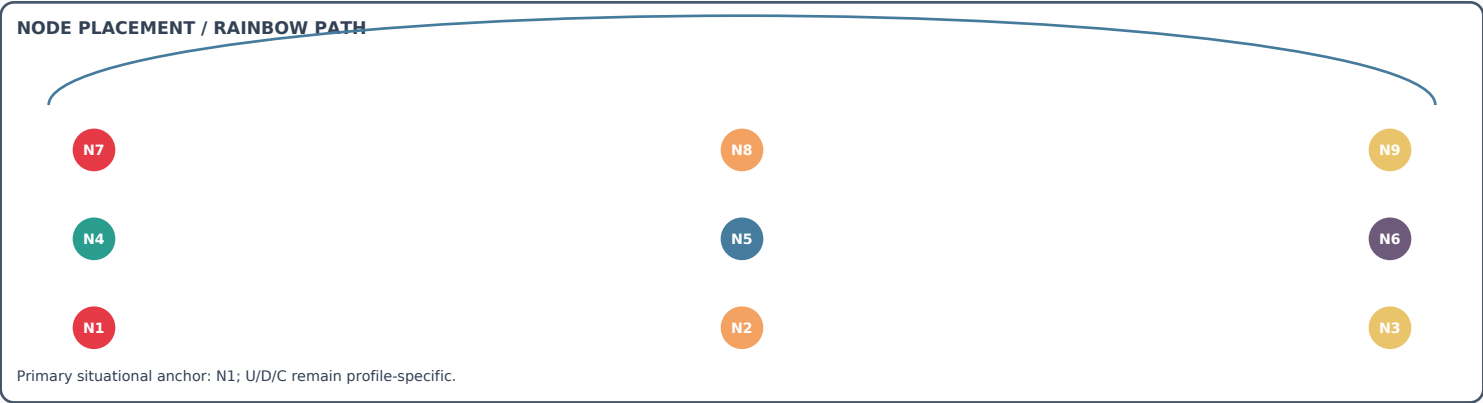
Pink source
 MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page
 97 of 431. Chapter 42 F-041 - Dimensional integrity Exact expression
 $\dim(LHS)=\dim(RHS)$ Meaning. Every physical equality must be dimensionally valid.
 Bound manifestations. MK, JO Gateway
 stage.JP canonical representation, MK applicability, JO proof, and bounded MJ output
 Construct Formula-specific expression Module
 MJ_PBMEF.finance.portfolio_mk_integrity Namespace
 MJ_PBMEF.finance.portfolio_mk_integrity.F_041 Imp...

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_42_F041_Dimensional
reference "PINK-01-P0097"
state R -> R1
node N1
representation JP(PINK-01-P0097)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ PBMEF Pink Paper Gateway Expression and Full Lifecycle 001.pdf, page 97 of 431. Chapter 42 F-041 - Dimens
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 98 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper II - F001-F050 42.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-041anditsassumptions, inputs, out

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0098"
state R -> R1
node N1
representation JP(PINK-01-P0098)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 98 of 431. PRIVATE PRE-DAY-0 - UNSIG
```

Node Placement / Rainbow Path

R

R1

N1

U

D

C

OUT

Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

Source Rule / Intent

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Pink source
MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 99 of 431. Chapter 43 F-042 - Conservation residual Exact expression
r_q=q_in-q_out-Deltaq-q_loss Meaning. Passonlywhen|r_q|<=U_q. Bound manifestations.MK,JO,EVE,MERMAID Gateway stage.JPcanonicalrepresentation,MKapplicability,JOproof,andboundedMJoutput Construct Formula-specific expression Module
MJ.PBMEF.finance.portfolio_mk_integrity Namespace
MJ.PBMEF.finance.portfolio_mk_integrity.F_042 Imp...

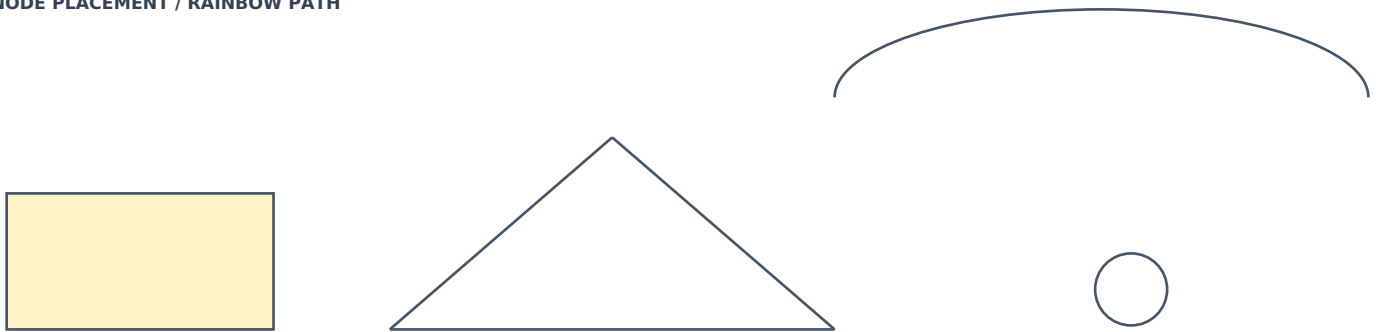
Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.Chapter_43_F_042_Conservatio
reference "PINK-01-P0099"
state R -> R1
node N1
representation JP(PINK-01-P0099)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 99 of 431. Chapter 43 F-042 - Conser
```


NODE PLACEMENT / RAINBOW PATH



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source
 MJ_PBMF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page
 100 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper II -
 F001-F050 43.2 Lifecycle from request to final output 1. R/R0:
 receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin:
 parsemodules,namespaces,declarations,literals,types,constraints,anddirectives.
 3. Elsa:
 reversesemanticpurpose,variablemeaning,andambiguitywithoutcreatingauthority.
 4. JP:create the canonical CAPOfor F-042 and its assumptions, inputs, out

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSigned_R
reference "PINK-01-P0100"
state R -> R1
node N1
representation JP(PINK-01-P0100)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ PBMEF Pink Paper Gateway Expression and Full Lifecycle 001.pdf, page 100 of 431. PRIVATE PRE-DAY-0 - UNSI
```

Node Placement / Rainbow Path

Rectangle

Cone

Sister umbrella

EVE/lake

next-cycle re-entry

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source

MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 101 of 431. Chapter 44 F-043 - Pearl simulation ellipsoid vol- ume Exact expression $V_P = (4/3) \cdot \pi \cdot a \cdot b \cdot c$ Meaning. Hypothetical pearl-shaped simulation geometry; no physical container or dimension claim. Bound manifestations. MK, SISTER, EVE, JO Gateway stage. Sister/EVE/MK/JO containment or simulation evidence before MJ permit Construct Formula-specific expression Module MJ.PBMEF.pearl.hypothetical_simulation_acoustic_reference Namesp...

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_44_F_043_Pearl_simul
reference "PINK-01-P0101"
state R -> R1
node N1
representation JP(PINK-01-P0101)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 101 of 431. Chapter 44 F-043 - Pearl
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 102 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper II - F001-F050 44.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-043anditsassumptions, inputs, out

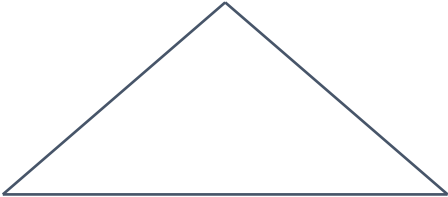
PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0102"
state R -> R1
node N1
representation JP(PINK-01-P0102)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 102 of 431. PRIVATE PRE-DAY-0 - UNSI
```

Node Placement / Rainbow Path









Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 103 of 431. Chapter 45 F-044 - Pearl simulation surface-area approximation Exact expression $A_P \sim 4 \pi ((a^p b^p + a^p c^p + b^p c^p) / 3)^{(1/p)}$, $p = 1.6075$ Meaning. Hypotheticalsimulationgeometryapproximation;nophysicalwallorsurfaceclaim. Bound manifestations.MK,BELLE,JO Gateway stage.Sister/EVE/MK/JOcontainmentorsimulationevidencebeforeMJpermit Construct Formula-specific expression Mod...

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_45_F_044_Pearl_simul
reference "PINK-01-P0103"
state R -> R1
node N1
representation JP(PINK-01-P0103)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 103 of 431. Chapter 45 F-044 - Pearl
```

Node Placement / Rainbow Path



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source
MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 104 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper II - F001-F050 45.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-044 and its assumptions, inputs, out

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0104"
state R -> R1
node N1
representation JP(PINK-01-P0104)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 104 of 431. PRIVATE PRE-DAY-0 - UNSI
```

Node Placement / Rainbow Path



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source
MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 105 of 431. Chapter 46 F-045 - Pearl simulation exposure ratio Exact expression $\chi_P=A_{P/V_P}$ Meaning.
Simulationcomparisonmetriconly;notphysicalbreachorexposureevidence.
Bound manifestations.MK,BELLE,EVE Gateway stage.Sister/EVE/MK/JOcontainmentorsimulationevidencebeforeMJpermit Construct Formula-specific expression Module
MJ.PBMEF.pearl.hypothetical_simulation_acoustic_reference Namesp...

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.Chapter_46_F_045_Pearl_simul
reference "PINK-01-P0105"
state R -> R1
node N1
representation JP(PINK-01-P0105)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 105 of 431. Chapter 46 F-045 - Pearl
```

Node Placement / Rainbow Path



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source
MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 106 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper II - F001-F050 46.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-045 and its assumptions, inputs, out

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0106"
state R -> R1
node N1
representation JP(PINK-01-P0106)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 106 of 431. PRIVATE PRE-DAY-0 - UNSI
```

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source

MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 107 of 431. Chapter 47 F-046 - Pearl simulation capacity slack Exact expression $S_{Pk}=(1-h_{Pk})\cdot C_{Pk}-L_{Pk}$ Meaning. Remaining types simulation/information capacity after declared headroom. Bound manifestations. SISTER, EVE, M3, MK, JO Gateway stage. Sister/EVE/MK/JO containment or simulation evidence before MJ permit Construct Formula-specific expression Module MJ.PBMEF.pearl.hypothetical_simulation_acoustic_reference Namesp...

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_47_F_046_Pearl_simul
reference "PINK-01-P0107"
state R -> R1
node N1
representation JP(PINK-01-P0107)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 107 of 431. Chapter 47 F-046 - Pearl
```


Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source

MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 108 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper II - F001-F050 47.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-046anditsassumptions, inputs, out

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R

reference "PINK-01-P0108"

state R -> R1

node N1

representation JP(PINK-01-P0108)

physics MK(classify, units, boundary, uncertainty)

verify J0(types, evidence, receipts)

if all_required_gates == PASS:

MJ.permit -> R2 -> bounded_output

else:

HOLD | FAIL_TECHNICAL | DENY

Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 108 of 431. PRIVATE PRE-DAY-0 - UNSI

```

graph LR
    R((R)) --- R1((R1))
    R1 --- N1((N1))
    N1 --- U((U))
    U --- D((D))
    D --- C((C))
    C --- OUT((OUT))
  
```

R STATUS / OBSERVATION

R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Pink source
 MJ_PBMFE_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page
 109 of 431. Chapter 48 F-047 - Pearl simulation saturation ratio Exact
 expression $\beta_P = \max_k \frac{k_L(P_k)}{(1 + P_k) * C_{P_k}}$ Meaning.
 Simulationsaturationconditiononly;notphysicalbreachresistance. Bound
 manifestations.MK,ANGELS,BELLATRIX,JO Gateway
 stage.Sister/EVE/MK/JOcontainmentorsimulationevidencebeforeMJpermit
 Construct Formula-specific expression Module
 MJ_PBMFE.pearl.hypothetical_simulation_acoustic_reference Namesp...

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

```
module MJ.Rainbow.Chapter_48_F047_Pearl_simul
reference "PINK-01-P0109"
state R -> R1
node N1
representation JP(PINK-01-P0109)
physics MK(classify, units, boundary, uncertainty)
verify JO(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ PBMEF Pink Paper Gateway Expression and Full Lifecycle 001.pdf, page 109 of 431. Chapter 48 F-047 - Pearl
```

Node Placement / Rainbow Path



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source
MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 110 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper II - F001-F050 48.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-047 and its assumptions, inputs, out

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0110"
state R -> R1
node N1
representation JP(PINK-01-P0110)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 110 of 431. PRIVATE PRE-DAY-0 - UNSI
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 111 of 431. Chapter 49 F-048 - Pearl simulation object count Exact expression $N_P = \max_k \lceil E_k / ((1 - h_{Pk}) * C_{Pk}) \rceil$ Meaning. Number of hypothetical simulation objects needed for declared information/resource dimensions. Bound manifestations. SISTER, EVE, M3, MK, JO Gateway stage. Sister/EVE/MK/JO containment or simulation evidence before MJ permit Construct Formula-specific expression Module MJ.PBMEF.pearl.hypothetical_simulation_acoustic_reference N

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_49_F_048_Pearl_simul
reference "PINK-01-P0111"
state R -> R1
node N1
representation JP(PINK-01-P0111)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 111 of 431. Chapter 49 F-048 - Pearl
```

Node Placement / Rainbow Path



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 112 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper II - F001-F050 49.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-048anditsassumptions, inputs, out

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0112"
state R -> R1
node N1
representation JP(PINK-01-P0112)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 112 of 431. PRIVATE PRE-DAY-0 - UNSI
```

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

Source Rule / Intent

Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 113 of 431. Chapter 50 F-049 - Pearl simulation accounting bal- ance Exact expression r_Pk=q_in-q_captured-q_transferred-q_retained-q_escaped-Deltaq_stored Meaning. Simulation/accountingconservationacrossretained,transferred,escaped-observation,and storedinformation. Bound manifestations.EVE,MK,JO,MERMAID Gateway stage.Sister/EVE/MK/JOcontainmentorsimulationevidencebeforeMJper...

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_50_F_049_Pearl_simul
reference "PINK-01-P0113"
state R -> R1
node N1
representation JP(PINK-01-P0113)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 113 of 431. Chapter 50 F-049 - Pearl
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 114 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper II - F001-F050 } 50.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-049anditsassumptions, inputs, o

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0114"
state R -> R1
node N1
representation JP(PINK-01-P0114)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 114 of 431. PRIVATE PRE-DAY-0 - UNSI
```

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

Source Rule / Intent

Pink source

MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 115 of 431. Chapter 51 F-050 - Pearl simulated transfer oppor- tunity Exact expression $T_{ij,k}=\min([S_{jk}]_{+},[Q_{ik}-Q_{reserve_ik}]_{+},C_{route_k})$ Meaning. Simulatedtransferopportunityboundedbydeclaredlogicalcapacities;nophysicaltransfer. Bound manifestations.SISTER,EVE,M3,MK,JO Gateway stage.Sister/EVE/MK/JOcontainmentorsimulationevidencebeforeMJpermit Construct Formula-specific expression Module MJ.PBMEF.pearl.hypothetical_simulation

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_51_F_050_Pearl_simul
reference "PINK-01-P0115"
state R -> R1
node N1
representation JP(PINK-01-P0115)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 115 of 431. Chapter 51 F-050 - Pearl
```




R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 116 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper II - F001-F050 51.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-050anditsassumptions, inputs, out

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0116"
state R -> R1
node N1
representation JP(PINK-01-P0116)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 116 of 431. PRIVATE PRE-DAY-0 - UNSI
```

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

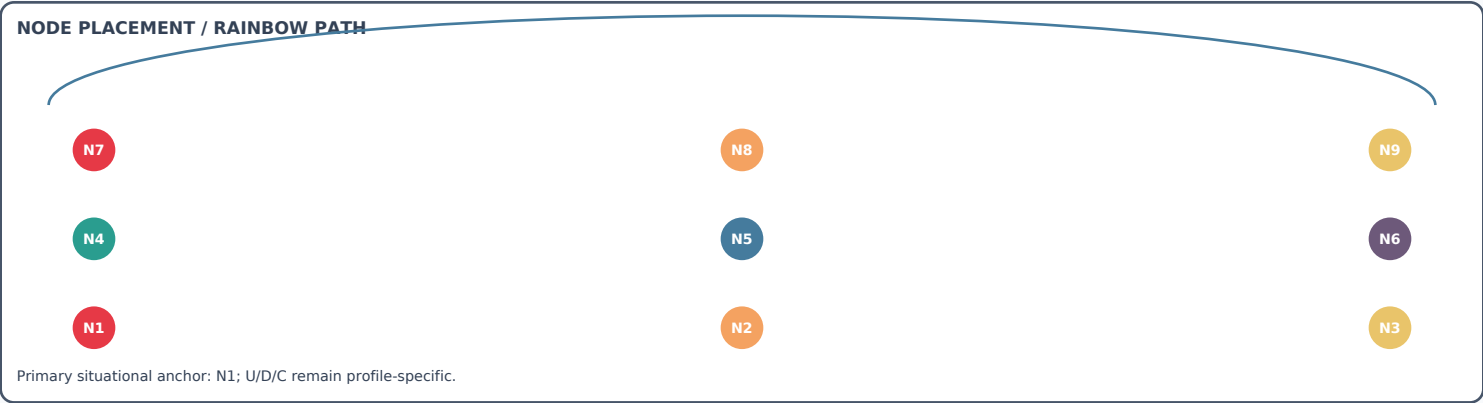
Pink source
MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 117 of 431. MJ-PBMEFPinkPaper-Volumelll
FormulaGatewayBindingsF-051throughF-100
MichaelBangel-AuthorandArchitect August2026

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

module MJ.Rainbow.MJ_PBMEFPinkPaper_VolumeIII_
reference "PINK-01-P0117"
state R -> R1
node N1
representation JP(PINK-01-P0117)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 117 of 431. MJ-PBMEFPinkPaper-Volume

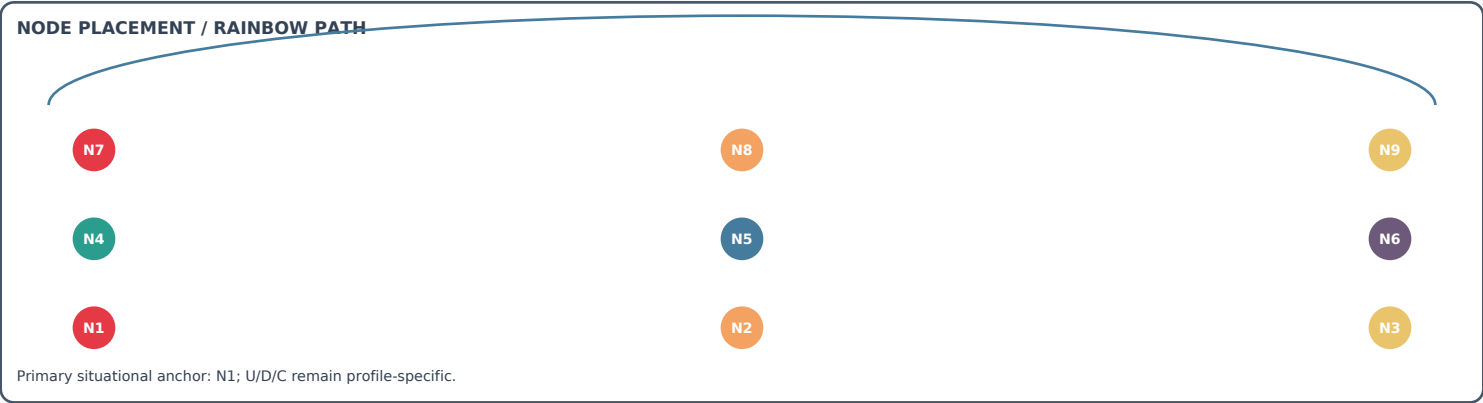


R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 118 of 431. Contents 1 Verification method 5 2 F-051 - Pearl simulated regeneration vector 6 2.1 Gatewaylife-cycleexample6 2.2 Lifecyclefromrequesttofinaloutput7 3 F-052 - Pearl acoustic simulation wavelength 8 3.1 Gatewaylife-cycleexample

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Contents_1_Verification_meth
reference "PINK-01-P0118"
state R -> R1
node N1
representation JP(PINK-01-P0118)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 118 of 431. Contents 1 Verification
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 119 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper III - F051-F100 13.2Lifecyclefromrequesttofinaloutput 29 14F-063 - Incremental recompute cost 30 14.1Gatewaylife-cycleexample 30 14.2Lifecyclefromrequesttofinaloutput 31 15F-06

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0119"
state R -> R1
node N1
representation JP(PINK-01-P0119)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 119 of 431. PRIVATE PRE-DAY-0 - UNSI
```

Node Placement / Rainbow Path

R

R1

N1

U

D

C

OUT

Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

Source Rule / Intent

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Pink source
MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 120 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper III - F051-F100 29F-078 - Formula verification residual 60
29.1Gatewaylife-cycleexample60
29.2Lifecyclefromrequesttofinaloutput61
30F-079 - Operational intake completeness 62 30.1Gatewaylife-cycleexample .
.....

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0120"
state R -> R1
node N7
representation JP(PINK-01-P0120)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 120 of 431. PRIVATE PRE-DAY-0 - UNSI

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

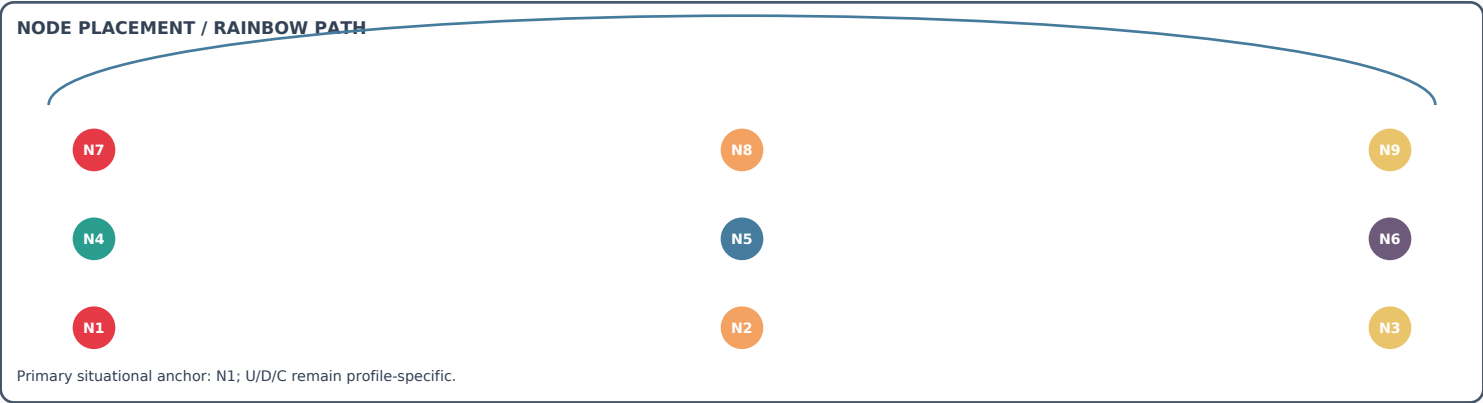
R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 121 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper III - F051-F100 44F-093 - Observed gas-height predictor 90 44.1Gatewaylife-cycleexample90 44.2Lifecyclefromrequesttofinaloutput91 45F-094 - Gas net-force balance 92 45.1Gatewaylife-cycleexample

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0121"
state R -> R1
node N1
representation JP(PINK-01-P0121)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 121 of 431. PRIVATE PRE-DAY-0 - UNSI
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 122 of 431. Chapter 1 Verification method Each formula receives the same twenty-construct Bangel identity, a gateway-stage assignment, a life-cycleexample, andexplicitvidenceandethicsboundaries. Therepetitivestructureisintentional: it allowsformula-by-formulafounderreviewandlaterautomatedcompletenesschecking. 5

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_1_Verification_metho
reference "PINK-01-P0122"
state R -> R1
node N1
representation JP(PINK-01-P0122)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 122 of 431. Chapter 1 Verification m
```

Node Placement / Rainbow Path



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source
MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 123 of 431. Chapter 2 F-051 - Pearl simulated regeneration vector Exact expression $G_P=[G_mass,G_energy,G_bytes,G_time,G_capital]$ Meaning. Hypotheticalopportunityvector;createsnophysicalorcapitalvalue. Bound manifestations.EVE,MERMAID,SHIVA,MK,JO Gateway stage.N1prediction-firstallocation,M3routing,andG123reconciliation Construct Formula-specific expression Module MJ.PBMEF.pearl.hypothetical_simulation_acoustic_reference Namespa

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.Chapter_2_F_051_Pearl_simula
reference "PINK-01-P0123"
state R -> R1
node N1
representation JP(PINK-01-P0123)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 123 of 431. Chapter 2 F-051 - Pearl
```


Node Placement / Rainbow Path



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source
MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 124 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper III - F051-F100 2.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-051anditsassumptions, inputs, out

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0124"
state R -> R1
node N1
representation JP(PINK-01-P0124)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 124 of 431. PRIVATE PRE-DAY-0 - UNSI
```

Node Placement / Rainbow Path

R

R1

N1

U

D

C

OUT

Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

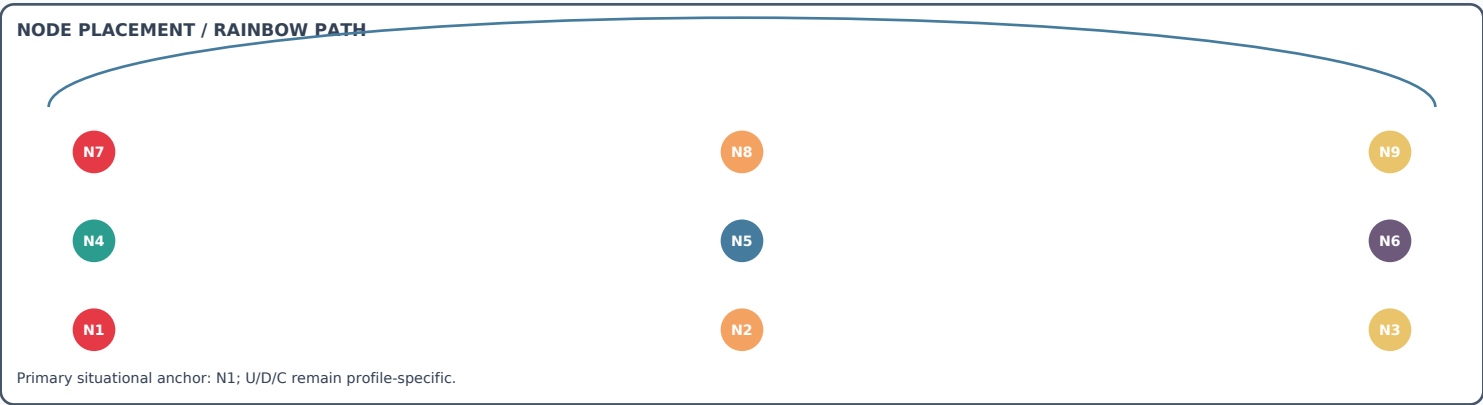
Pink source
MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 125 of 431. Chapter 3 F-052 - Pearl acoustic simulation wave- length Exact expression lambda_ac=c_medium/f_control Meaning. Acousticssimulationvariableunderdeclaredmediumassumptions;nocohesionclaim. Bound manifestations.MK,EVE,JO Gateway stage.Sister/EVE/MK/JOcontainmentorsimulationevidencebeforeMJpermit Construct Formula-specific expression Module MJ.PBMEF.pearl.hypothetical_simulation_acoustic_reference Namesp...

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

module MJ.Rainbow.Chapter_3_F_052_Pearl_acoust
reference "PINK-01-P0125"
state R -> R1
node N1
representation JP(PINK-01-P0125)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 125 of 431. Chapter 3 F-052 - Pearl



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 126 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper III - F051-F100 3.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-052anditsassumptions, inputs, out

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0126"
state R -> R1
node N1
representation JP(PINK-01-P0126)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 126 of 431. PRIVATE PRE-DAY-0 - UNSI
```

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

Source Rule / Intent

Pink source

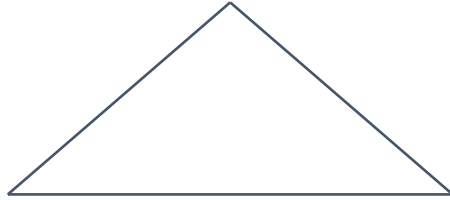
MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 127 of 431. Chapter 4 F-053 - Pearl acoustic simulation inten- sity Exact expression $I_{ac}=p_{rms}^2/(\rho_{medium}*c_{medium})$ Meaning. Referencesimulationintensityonly;nophysicalactuationclaim. Bound manifestations.MK,EVE,JO Gateway stage.Sister/EVE/MK/JOcontainmentorsimulationevidencebeforeMJpermit Construct Formula-specific expression Module MJ.PBMEF.pearl.hypothetical_simulation_acoustic_reference Namesp...

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_4_F_053_Pearl_acoust
reference "PINK-01-P0127"
state R -> R1
node N1
representation JP(PINK-01-P0127)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 127 of 431. Chapter 4 F-053 - Pearl
```



R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Pink source
MJ_PBMF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page
128 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper III
- F051-F100 4.2 Lifecycle from request to final output 1. R/RO:
receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin:
parsemodules,namespaces,declarations,literals,types,constraints,anddirectives.
3. Elsa:
reversesemanticpurpose,variablemeaning,andambiguitywithoutcreatingauthority.
4. JP:create the canonical CAPO for F-053 and its assumptions, inputs, out

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSigned_R
reference "PINK-01-P0128"
state R -> R1
node N1
representation JP(PINK-01-P0128)
physics MK(classify, units, boundary, uncertainty)
verify JO(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ PBMEF Pink Paper Gateway Expression and Full Lifecycle 001.pdf, page 128 of 431. PRIVATE PRE-DAY-0 - UNSI
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 129 of 431. Chapter 5 F-054 - Pearl acoustic simulation energy Exact expression $E_{ac} = \int (I_{ac} * A_{effective}) dt$ Meaning. Hypothetical energy accounting for a future separately permitted experiment. Bound manifestations. MK, EVE, MERMAID, JO Gateway stage. Sister/EVE/MK/JO containments simulation evidence before MJ permit Construct Formula-specific expression Module MJ.PBMEF.pearl.hypothetical_simulation_acoustic_reference Namesp...

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_5_F_054_Pearl_acoust
reference "PINK-01-P0129"
state R -> R1
node N1
representation JP(PINK-01-P0129)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 129 of 431. Chapter 5 F-054 - Pearl
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 130 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper III - F051-F100 5.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules,namespaces,declarations,literals,types,constraints,anddirectives. 3. Elsa: recoversemanticpurpose,variablemeaning,andambiguitywithoutcreatingauthority. 4. JP:createthecanonicalCAPOforF-054anditsassumptions,inputs,out

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0130"
state R -> R1
node N1
representation JP(PINK-01-P0130)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 130 of 431. PRIVATE PRE-DAY-0 - UNSI
```

Node Placement / Rainbow Path

Rectangle

Cone

Sister umbrella

EVE/lake

next-cycle re-entry

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source

MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 131 of 431. Chapter 6 F-055 - Pearl acoustic simulation ob-

servability gate

Exact expression $f_{sample} \geq 2 * \gamma * f_{control}$ AND $f_{control}$ in calibrated_band AND $SNR_f \geq SNR_{min}$ Meaning.

Simulation input must be measurable to be accounted for; observability is not actuation.

Bound manifestations. MK, JO, ANGELS Gateway

stage. Sister/EVE/MK/JO containments or simulation evidence before MJ permit

Construct Formula-specific expression Module MJ.PBMEF.pearl.hy

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_6_F_055_Pearl_acoust
reference "PINK-01-P0131"
state R -> R1
node N1
representation JP(PINK-01-P0131)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 131 of 431. Chapter 6 F-055 - Pearl
```

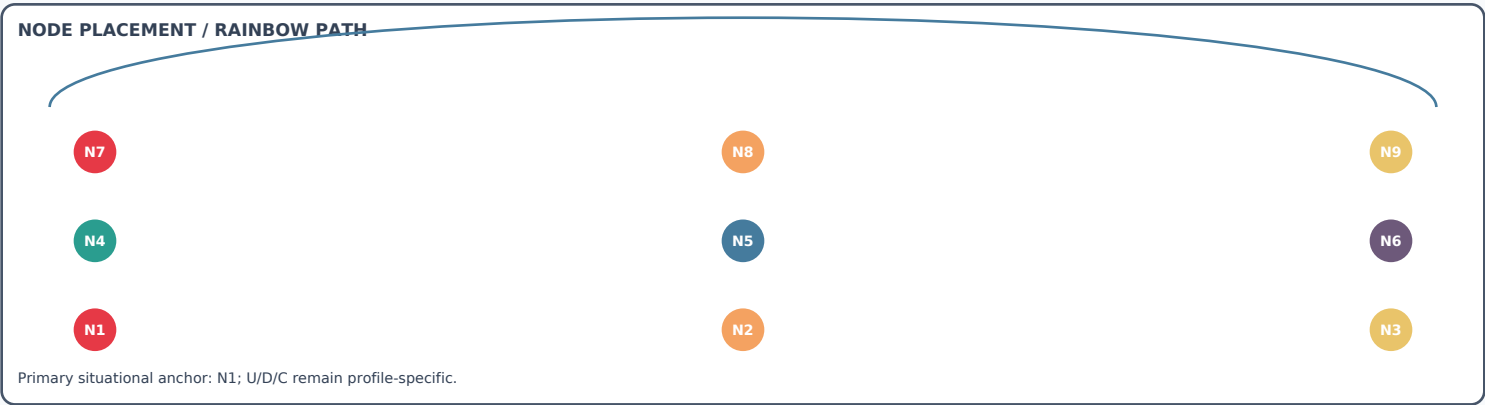



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 132 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper III - F051-F100 } 6.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-055anditsassumptions, inputs, o

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0132"
state R -> R1
node N1
representation JP(PINK-01-P0132)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 132 of 431. PRIVATE PRE-DAY-0 - UNSI
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 133 of 431. Chapter 7 F-056 - Pearl acoustic simulation signal- to-noise Exact expression $SNR_f = P_{signal}(f) / P_{noise}(f)$ Meaning. Simulationsignal-to-noiseratio;advisoryandnon-authorizing. Bound manifestations.MK,SISTER,EVE,JO Gateway stage.R1predictionandnormal-constellationcalibrationbeforeN1 Construct Formula-specific expression Module MJ.PBMEF.pearl.hypothetical_simulation_acoustic_reference Namesp...

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_7_F_056_Pearl_acoust
reference "PINK-01-P0133"
state R -> R1
node N1
representation JP(PINK-01-P0133)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 133 of 431. Chapter 7 F-056 - Pearl
```

Node Placement / Rainbow Path



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

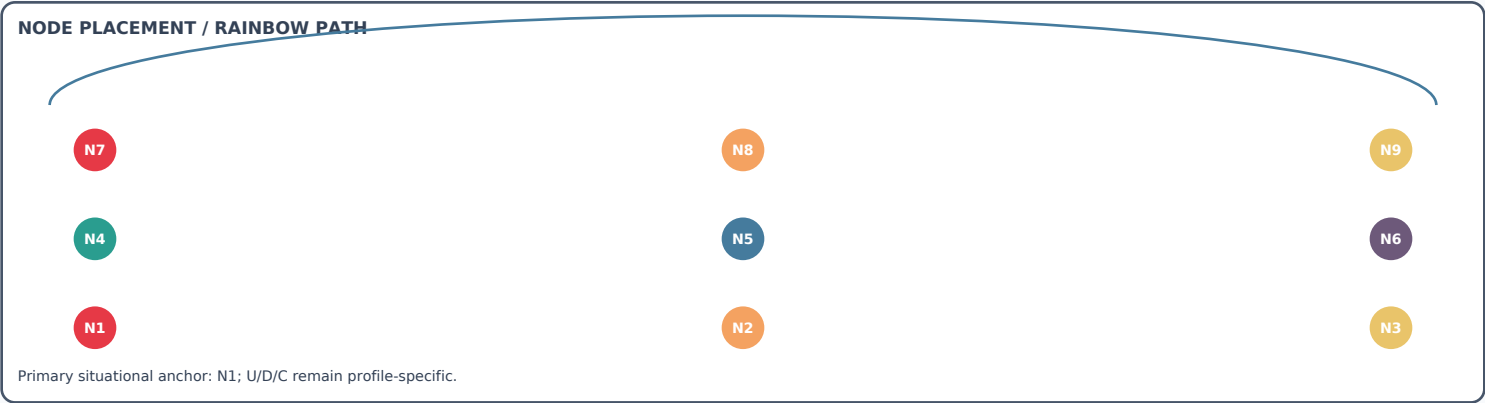
Pink source
MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 134 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper III - F051-F100 7.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-056anditsassumptions, inputs, out

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0134"
state R -> R1
node N1
representation JP(PINK-01-P0134)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 134 of 431. PRIVATE PRE-DAY-0 - UNSI
```

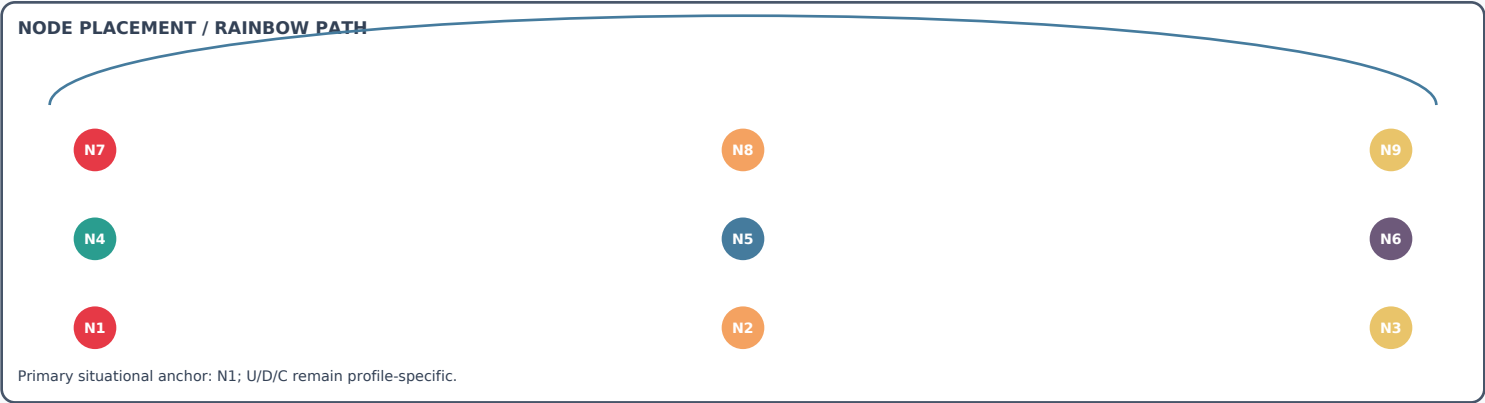


R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 135 of 431. Chapter 8 F-057 - Pearl acoustic simulation trans-fer function Exact expression $H_P(f)=Y_P(f)/U_P(f)$ Meaning. Hypothetical or measured-later response mapping; no physical Pearl article exists. Bound manifestations. MK, EVE, JO Gateway stage. Sister/EVE/MK/JO containments simulation evidence before MJ permit Construct Formula-specific expression Module MJ.PBMEF.pearl.hypothetical_simulation_acoustic_reference Namesp...

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_8_F_057_Pearl_acoust
reference "PINK-01-P0135"
state R -> R1
node N1
representation JP(PINK-01-P0135)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 135 of 431. Chapter 8 F-057 - Pearl
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 136 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper III - F051-F100 8.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules,namespaces,declarations,literals,types,constraints,anddirectives. 3. Elsa: recoversemanticpurpose,variablemeaning,andambiguitywithoutcreatingauthority. 4. JP:createthecanonicalCAPOforF-057anditsassumptions,inputs,out

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0136"
state R -> R1
node N1
representation JP(PINK-01-P0136)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 136 of 431. PRIVATE PRE-DAY-0 - UNSI
```

Node Placement / Rainbow Path

R

R1

N1

U

D

C

OUT

Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

Source Rule / Intent

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Pink source

MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 137 of 431. Chapter 9 F-058 - Pearl acoustic simulation set- point Exact

expression f*=argmin_{f in F_safe}(J_breach+lambda_E*E_ac+lambda_T*T_transfer) Meaning.

Simulationcandidateonly;nophysicalcontrolsetpoint. Bound

manifestations.MK,BELLE,JO,MJ Gateway

stage.Sister/EVE/MK/JOcontainmentorsimulationevidencebeforeMJpermit

Construct Formula-specific expression Mod...

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.Chapter_9_F_058_Pearl_acoust
reference "PINK-01-P0137"
state R -> R1
node N1
representation JP(PINK-01-P0137)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 137 of 431. Chapter 9 F-058 - Pearl
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 138 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper III - F051-F100 9.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules,namespaces,declarations,literals,types,constraints,anddirectives. 3. Elsa: recoversemanticpurpose,variablemeaning,andambiguitywithoutcreatingauthority. 4. JP:createthecanonicalCAPOforF-058anditsassumptions,inputs,out

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0138"
state R -> R1
node N1
representation JP(PINK-01-P0138)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 138 of 431. PRIVATE PRE-DAY-0 - UNSI
```

Node Placement / Rainbow Path

R

R1

N1

U

D

C

OUT

Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

Source Rule / Intent

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Pink source

MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 139 of 431. Chapter 10 F-059 - Bounded Pearl acoustic simulation adjustment

Exact expression

$f_{next} = clip((2/3)f + (1/3)f_{target}, f_{df_max}, f + df_{max}, f_{min}, f_{max})$ Meaning.

One-third-damped simulation update only. Bound manifestations. MK, JO, M3

Gateway

stage. Sister/EVE/MK/JO containment or simulation evidence before MJ permit

Construct Formula-specific expression Mod...

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.Chapter_10_F_059_Bounded_Pea
reference "PINK-01-P0139"
state R -> R1
node N1
representation JP(PINK-01-P0139)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 139 of 431. Chapter 10 F-059 - Bound
```




R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 140 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper III - F051-F100 10.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-059anditsassumptions, inputs, ou

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0140"
state R -> R1
node N1
representation JP(PINK-01-P0140)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 140 of 431. PRIVATE PRE-DAY-0 - UNSI
```

Node Placement / Rainbow Path

Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source
MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 141 of 431. Chapter 11 F-060 - Pearl simulation registry recon- ciliation Exact expression
r_registry=N_allocated+N_received-N_transferred-N_closed-N_active Meaning. Registrycountreconciliationforsimulationrecords,notphysicalcontainers. Bound manifestations.MERMAID,SHIVA,M3,JO Gateway stage.Sister/EVE/MK/JOcontainmentorsimulationevidencebeforeMJpermit Construct Formula-specific expression Mod...

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

module MJ.Rainbow.Chapter_11_F_060_Pearl_simul
reference "PINK-01-P0141"
state R -> R1
node N1
representation JP(PINK-01-P0141)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 141 of 431. Chapter 11 F-060 - Pearl

Node Placement / Rainbow Path

Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source

MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 142 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper III - F051-F100 11.2 Lifecycle from request to final output

1. R/R0: receivefounderoruserpurposeandexactcommandscope.

2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives.

3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority.

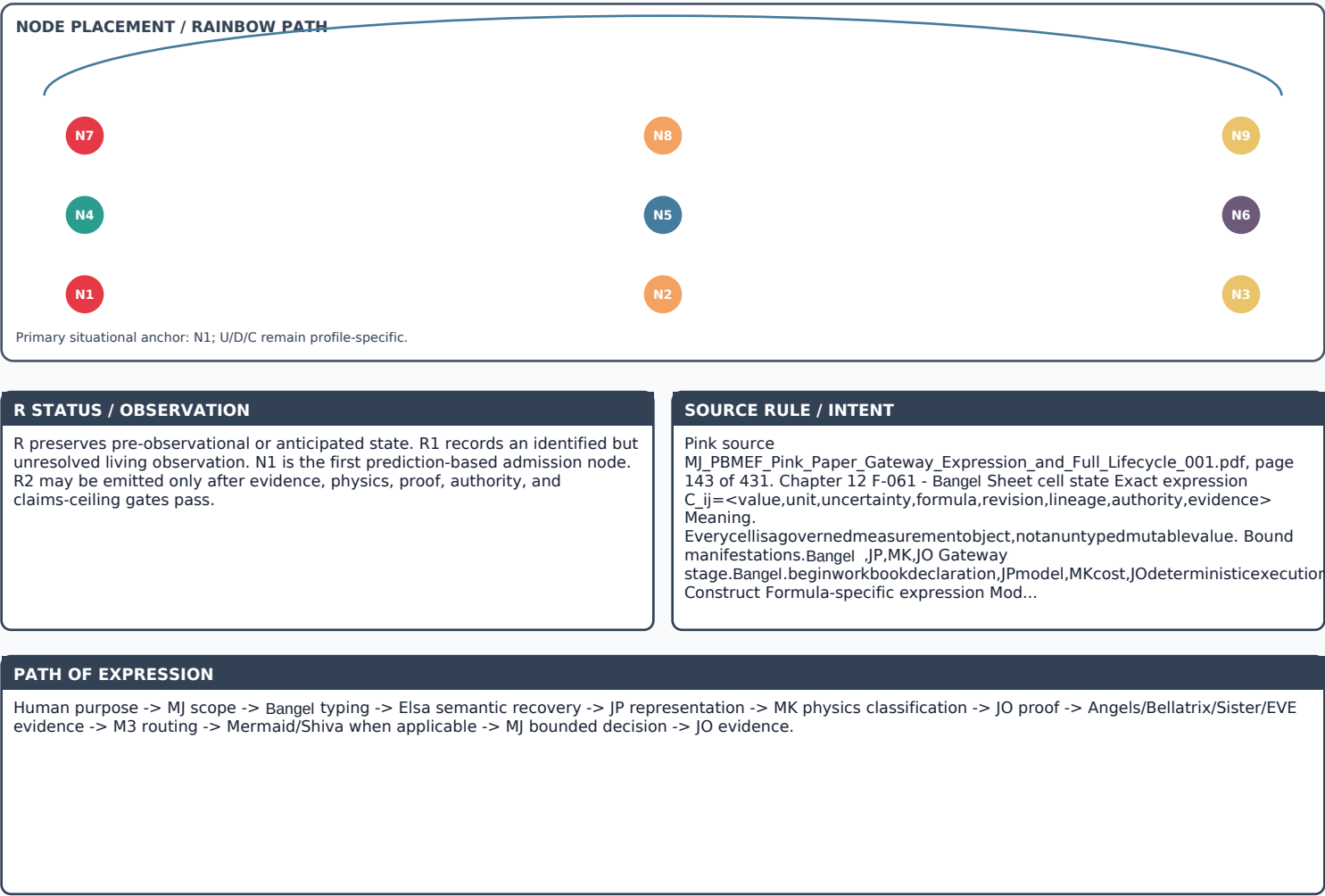
4. JP: createthecanonicalCAPOforF-060anditsassumptions, inputs, ou

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0142"
state R -> R1
node N1
representation JP(PINK-01-P0142)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 142 of 431. PRIVATE PRE-DAY-0 - UNSI
```



CODE / MATH / PROCESS REPRESENTATION

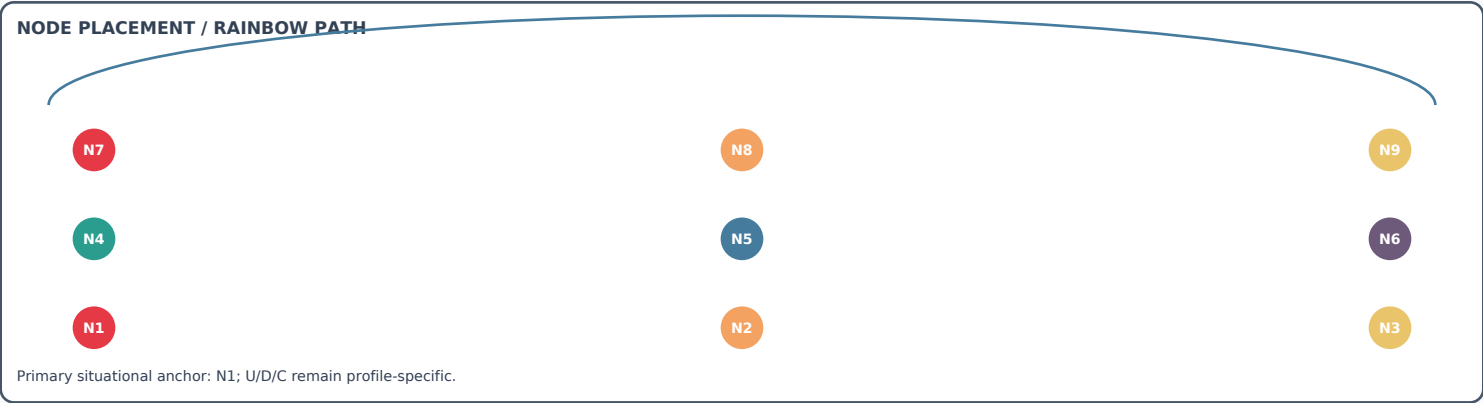
```
module MJ.Rainbow.Chapter_12_F_061_Bangel_Shee
reference "PINK-01-P0143"
state R -> R1
node N1
representation JP(PINK-01-P0143)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 143 of 431. Chapter 12 F-061 - Denal
```



Pink source
 MJ_PBMF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page
 144 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper III
 - F051-F100 12.2 Lifecycle from request to final output 1. R/R0:
 receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin:
 parsemodules,namespaces,declarations,literals,tuples,constraints,anddirectives.
 3. Elsa:
 reversesemanticpurpose,variablemeaning,andambiguitywithoutcreatingauthority.
 4. JP:create the canonical CAPO for F-061 and its assumptions, inputs, ou

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSigned_R
reference "PINK-01-P0144"
state R -> R1
node N1
representation JP(PINK-01-P0144)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ PBMEF Pink Paper Gateway Expression and Full Lifecycle 001.pdf, page 144 of 431. PRIVATE PRE-DAY-0 - UNSI
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 145 of 431. Chapter 13 F-062 - Affected dependency closure Exact expression A(U)=Reachable_G(U) Meaning. Onlycellsreachablefromchangedcellsareeligibleforincrementalrecomputation. Bound manifestations.JP,JO,M3 Gateway stage.Bangel.beginworkbookdeclaration,JPmodel,MKcost,JOdeterministicexecution Construct Formula-specific expression Module MJ.PBMEF.Bangel.spreadsheets.algorithms_scaling Namesp...

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> Mj bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_13_F_062_Affected_de
reference "PINK-01-P0145"
state R -> R1
node N1
representation JP(PINK-01-P0145)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 145 of 431. Chapter 13 F-062 - Affec
```

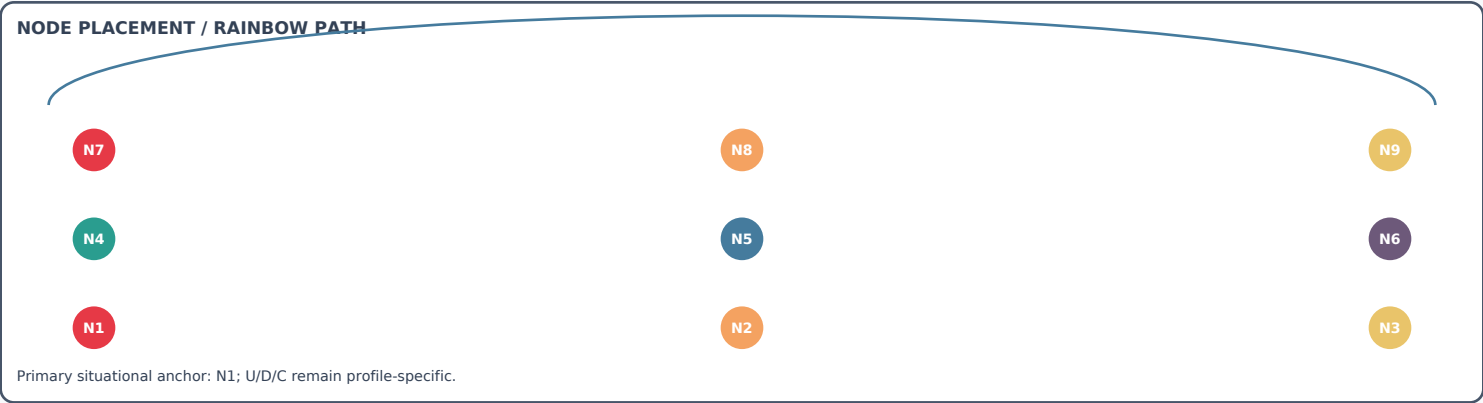


R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 146 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper III - F051-F100 13.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-062anditsassumptions, inputs, ou

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0146"
state R -> R1
node N1
representation JP(PINK-01-P0146)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 146 of 431. PRIVATE PRE-DAY-0 - UNSI
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 147 of 431. Chapter 14 F-063 - Incremental recompute cost Exact expression $C_{recalc} = \sum_{v \in A} c_v + \sum_{e \in E(A)} t_e$ Meaning. Measured compute and transfer work for an affected dependency closure. Bound manifestations. MK, JO, MERMAID Gateway stage. JP canonical representation, MK applicability, JO proof, and bounded MJ output Construct Formula-specific expression Module MJ.PBMEF.Bangel.spreadsheets.algorithms_scaling Namesp...

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_14_F_063_Incremental
reference "PINK-01-P0147"
state R -> R1
node N1
representation JP(PINK-01-P0147)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 147 of 431. Chapter 14 F-063 - Incre
```




R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 148 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper III - F051-F100 14.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-063anditsassumptions, inputs, ou

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0148"
state R -> R1
node N1
representation JP(PINK-01-P0148)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 148 of 431. PRIVATE PRE-DAY-0 - UNSI
```

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

Source Rule / Intent

Pink source

MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 149 of 431. Chapter 15 F-064 - Concurrent edit arrival Exact expression

$\lambda_{total} = N_{users} * \lambda_{user}$ Meaning.

Aggregateupdatearrivalratefrommeasuredconcurrent-useractivity. Bound manifestations.JO,M3,MK Gateway

stage.JPcanonicalrepresentation,MKapplicability,JOproof,andboundedMJoutput

Construct Formula-specific expression Module

MJ.PBMEF.Bangel.spreadsheets.algorithms_scaling Namesp...

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

module MJ.Rainbow.Chapter_15_F_064_Concurrent_
reference "PINK-01-P0149"
state R -> R1
node N1
representation JP(PINK-01-P0149)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 149 of 431. Chapter 15 F-064 - Concu

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

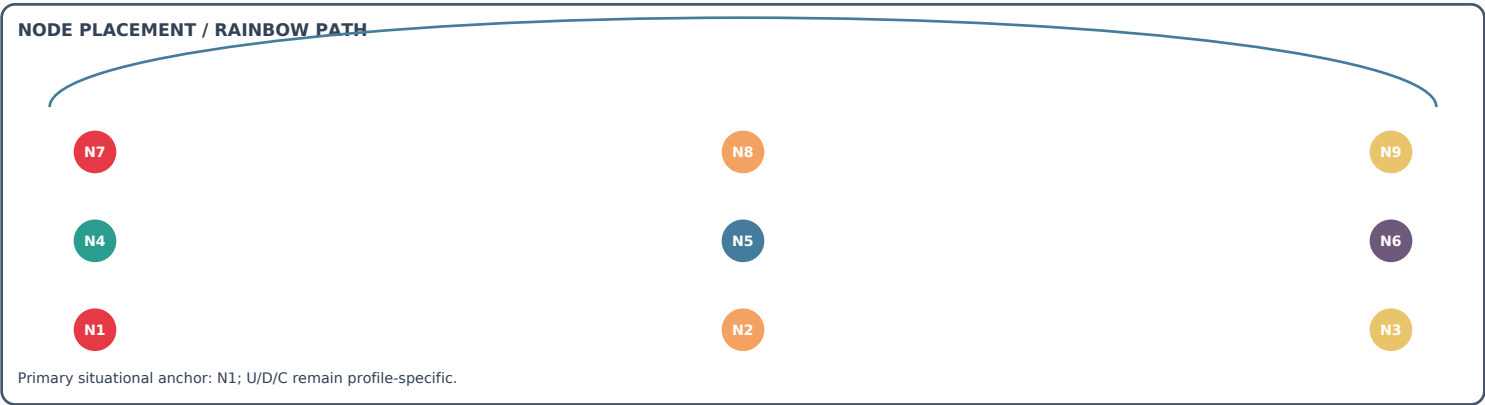
R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 150 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper III - F051-F100 15.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-064anditsassumptions, inputs, ou

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0150"
state R -> R1
node N1
representation JP(PINK-01-P0150)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 150 of 431. PRIVATE PRE-DAY-0 - UNSI
```

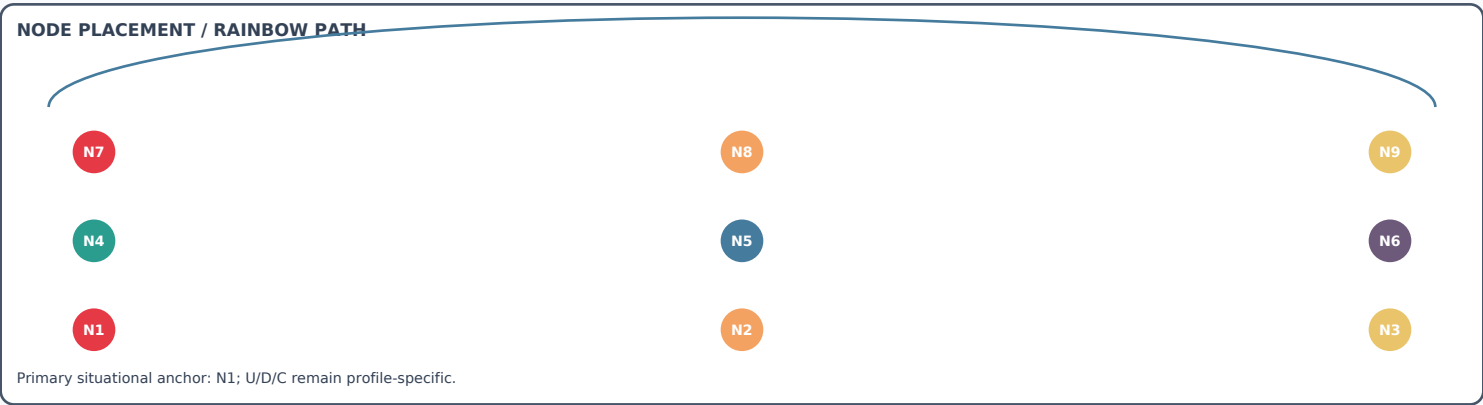


R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 151 of 431. Chapter 16 F-065 - Spreadsheet service utilization Exact expression rho=lambda_total/(W*mu_worker) Meaning. CapacityutilizationforWdeterministicworkers. Bound manifestations.JO,M3,MK Gateway stage.Bangel.beginworkbookdeclaration,JPmodel,MKcost,JOdeterministicexecution Construct Formula-specific expression Module MJ.PBMEF.Bangel.spreadsheets.algorithms_scaling Namesp...

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> Mj bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_16_F_065_Spreadsheet
reference "PINK-01-P0151"
state R -> R1
node N1
representation JP(PINK-01-P0151)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 151 of 431. Chapter 16 F-065 - Sprea
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 152 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper III - F051-F100 16.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-065anditsassumptions, inputs, ou

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0152"
state R -> R1
node N1
representation JP(PINK-01-P0152)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 152 of 431. PRIVATE PRE-DAY-0 - UNSI
```

NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source
MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 153 of 431. Chapter 17 F-066 - Spreadsheet worker require- ment Exact
expression $W_{min} = \text{ceil}(\lambda_{total} / (\rho_{max} * \mu_{worker}))$ Meaning. Minimum worker count for a pre-committed utilization ceiling. Bound manifestations. JO, M3, MJOS Gateway stage. Bangel.beginworkbookdeclaration, JPmodel, MKcost, JOdeterministicexecution Construct Formula-specific expression Module
MJ.PBMEF.Bangel.spreadsheets.algorithms_scaling Namesp...

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_17_F_066_Spreadsheet
reference "PINK-01-P0153"
state R -> R1
node N1
representation JP(PINK-01-P0153)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 153 of 431. Chapter 17 F-066 - Sprea
```

Node Placement / Rainbow Path



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source
MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 154 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper III - F051-F100 17.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-066anditsassumptions, inputs, ou

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0154"
state R -> R1
node N1
representation JP(PINK-01-P0154)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 154 of 431. PRIVATE PRE-DAY-0 - UNSI
```

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source

MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 155 of 431. Chapter 18 F-067 - Recalculation latency Exact expression

$T_{recalc}=T_{parse}+T_{dependency}+\max_p(T_{partition},p)+T_{commit}$ Meaning. End-to-endrecalculationlatencyacrosslogicalPearlsimulationpartitions. Bound manifestations.MK,JO,M3 Gateway stage.Bangel.beginworkbookdeclaration,JPmodel,MKcost,JOdeterministicexecution Construct Formula-specific expression Module

MJ.PBMEF.Bangel.spreadsheets.algorithms_scaling Namespace MJ.P

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_18_F_067_Recalculati
reference "PINK-01-P0155"
state R -> R1
node N1
representation JP(PINK-01-P0155)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 155 of 431. Chapter 18 F-067 - Recal
```




R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 156 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper III - F051-F100 18.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-067anditsassumptions, inputs, ou

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0156"
state R -> R1
node N1
representation JP(PINK-01-P0156)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 156 of 431. PRIVATE PRE-DAY-0 - UNSI
```

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

Source Rule / Intent

Pink source

MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 157 of 431. Chapter 19 F-068 - Spreadsheet data cost Exact expression

C_data=B_store*c_store+B_transfer*c_transfer+t_cpu*c_cpu Meaning.

Storage,transfer,andcompute cost remain separately evidenced before aggregation.

Bound manifestations.MERMAID,SHIVA,MK,JO Gateway

stage.Bangel.begin workbook declaration,JP model,MK cost,JO deterministic execution

Construct Formula-specific expression Module

MJ.PBMEF.Bangel.spreadsheets.algorithms_scaling N

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_19_F_068_Spreadsheet
reference "PINK-01-P0157"
state R -> R1
node N1
representation JP(PINK-01-P0157)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 157 of 431. Chapter 19 F-068 - Sprea
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 158 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper III - F051-F100 19.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-068anditsassumptions, inputs, ou

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0158"
state R -> R1
node N1
representation JP(PINK-01-P0158)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 158 of 431. PRIVATE PRE-DAY-0 - UNSI
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 159 of 431. Chapter 20 F-069 - Pearl simulation partition objec- tive Exact expression $J_{\text{partition}} = \alpha * \max_p(L_p) + \beta * \sum_{\text{cut}}(w_e) + \gamma * R_{\text{breach}} + \delta * R_{\text{stale}}$ Meaning. Logicalpartitionobjectivewithprecommittedweights; breachtermisimulationrisk, not physicalcontainment. Bound manifestations.JP,MK,JO,SISTER Gateway stage.Sister/EVE/MK/JOcontainmentorsimulationevidencebeforeMJper...

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> Mj bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_20_F_069_Pearl_simul
reference "PINK-01-P0159"
state R -> R1
node N1
representation JP(PINK-01-P0159)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 159 of 431. Chapter 20 F-069 - Pearl
```

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source

MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 160 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper III - F051-F100 } 20.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-069anditsassumptions, inputs,

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R

reference "PINK-01-P0160"

state R -> R1

node N1

representation JP(PINK-01-P0160)

physics MK(classify, units, boundary, uncertainty)

verify J0(types, evidence, receipts)

if all_required_gates == PASS:

MJ.permit -> R2 -> bounded_output

else:

HOLD | FAIL_TECHNICAL | DENY

Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 160 of 431. PRIVATE PRE-DAY-0 - UNSI

Node Placement / Rainbow Path



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source
MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 161 of 431. Chapter 21 F-070 - Sheet revision root Exact expression
H_rev=SHA256(parent_root||canonical_deltas||policy_epoch) Meaning.
Everycommittedchangecreatesimmutablecontent-addressedlineage. Bound manifestations.Bangel ,JP,JO,MERMAID Gateway stage.JPcanonicalrepresentation,MKapplicability,JOproof,andboundedMJoutput Construct Formula-specific expression Module
MJ.PBMEF.Bangel.spreadsheets.algorithms_scaling Namespace MJ.PBME

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.Chapter_21_F_070_Sheet_revis
reference "PINK-01-P0161"
state R -> R1
node N1
representation JP(PINK-01-P0161)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 161 of 431. Chapter 21 F-070 - Sheet
```

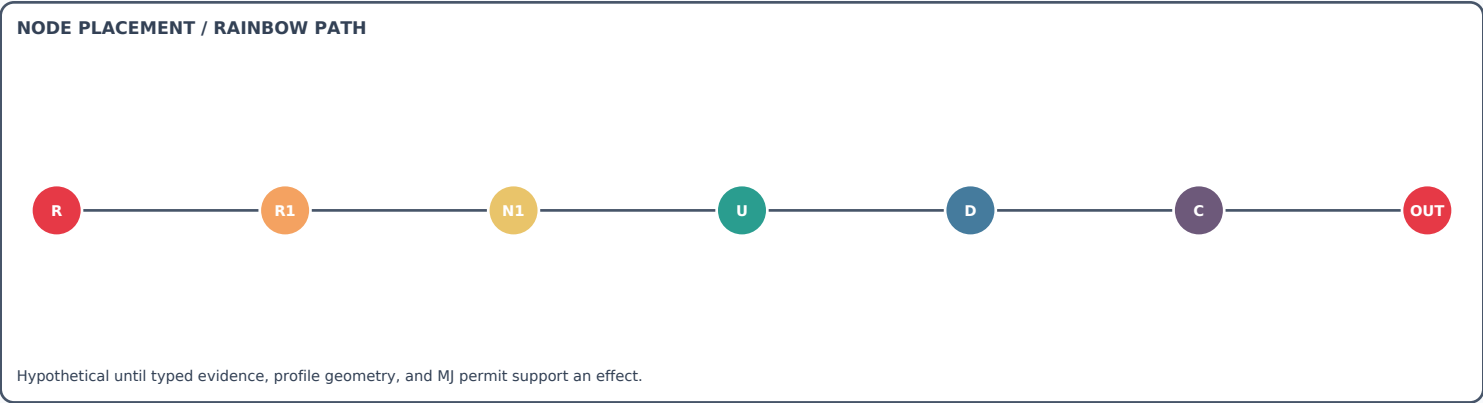


R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 162 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper III - F051-F100 21.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-070anditsassumptions, inputs, ou

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0162"
state R -> R1
node N1
representation JP(PINK-01-P0162)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 162 of 431. PRIVATE PRE-DAY-0 - UNSI
```



R Status / Observation	Source Rule / Intent
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 163 of 431. Chapter 22 F-071 - Audit-particle completeness Exact expression AuditPass=AND(required_fields_present,receipts_valid) Meaning. Acriticalspreadsheetscommandfailsclosedwhenitsauditparticleisincomplete. Bound manifestations.JO,ANGELS,BELLATRIX,MERMAID Gateway stage.JPcanonicalrepresentation,MKapplicability,JOproof,andboundedMJoutput Construct Formula-specific expression Module MJ.PBMEF.Bangel.spreadsheets.algorithms_scal

Path of Expression
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.Chapter_22_F_071_Audit_parti
reference "PINK-01-P0163"
state R -> R1
node N1
representation JP(PINK-01-P0163)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 163 of 431. Chapter 22 F-071 - Audit
```

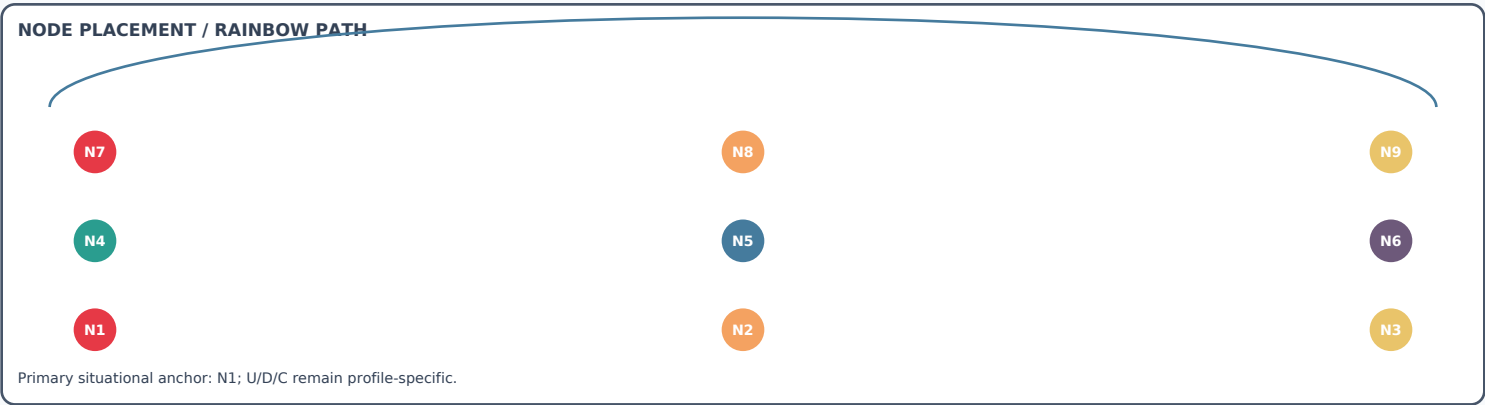



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 164 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper III - F051-F100 22.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-071anditsassumptions, inputs, ou

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0164"
state R -> R1
node N1
representation JP(PINK-01-P0164)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 164 of 431. PRIVATE PRE-DAY-0 - UNSI
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 165 of 431. Chapter 23 F-072 - Iterative recalculation stability Exact expression spectral_radius(J_F)<1 Meaning. Declared iterative formulas require an evidenced locally stable fixed-point regime. Bound manifestations.JP,MK,JO Gateway stage.JPcanonicalrepresentation,MKapplicability,JOproof,andboundedMJoutput Construct Formula-specific expression Module MJ.PBMEF.Bangel.spreadsheets.algorithms_scaling Namesp...

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_23_F_072_Iterative_r
reference "PINK-01-P0165"
state R -> R1
node N1
representation JP(PINK-01-P0165)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 165 of 431. Chapter 23 F-072 - Itera
```

Node Placement / Rainbow Path



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

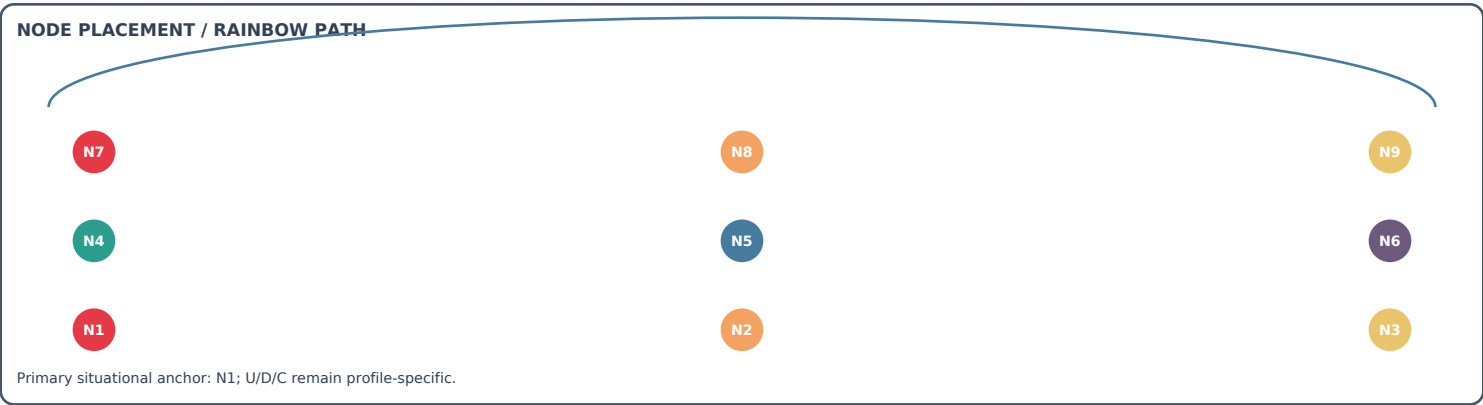
Pink source
MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 166 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper III - F051-F100 23.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-072anditsassumptions, inputs, ou

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0166"
state R -> R1
node N1
representation JP(PINK-01-P0166)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 166 of 431. PRIVATE PRE-DAY-0 - UNSI
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 167 of 431. Chapter 24 F-073 - Revision conflict gate Exact expression base_revision=head_revision OR valid_merge_receipt Meaning. Stalewritescannotsilentlyoverwriteanewerrevision. Bound manifestations.Bangel ,JO,ANGELS Gateway stage.JPcanonicalrepresentation,MKapplicability,JOproof,andboundedMJoutput Construct Formula-specific expression Module MJ.PBMEF.Bangel.spreadsheets.algorithms_scaling Namesp...

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> Mj bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_24_F_073_Revision_co
reference "PINK-01-P0167"
state R -> R1
node N1
representation JP(PINK-01-P0167)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 167 of 431. Chapter 24 F-073 - Revis
```

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source

MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 168 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper III - F051-F100 24.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-073anditsassumptions, inputs, ou

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R

reference "PINK-01-P0168"

state R -> R1

node N1

representation JP(PINK-01-P0168)

physics MK(classify, units, boundary, uncertainty)

verify J0(types, evidence, receipts)

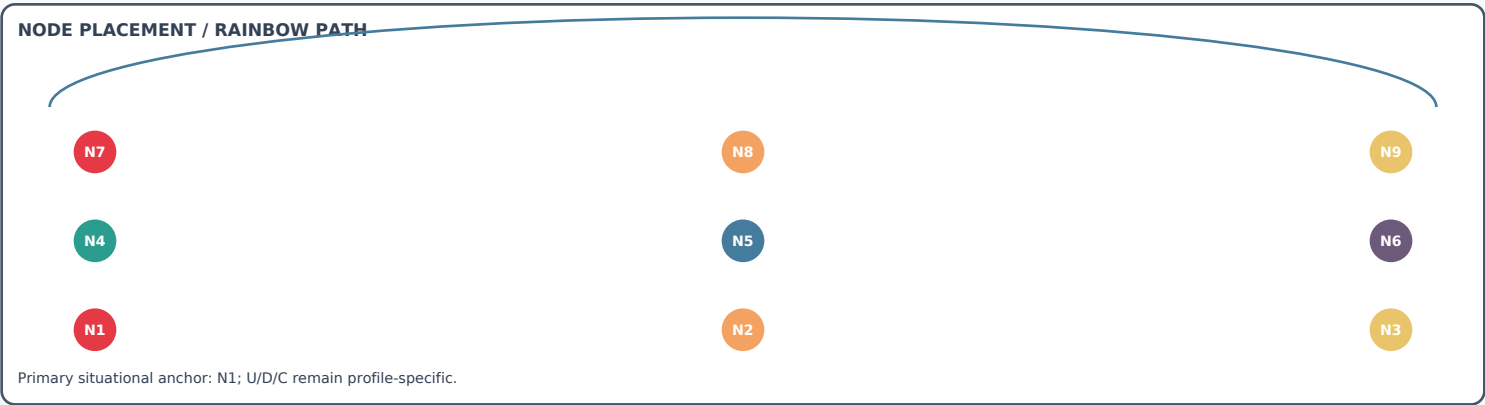
if all_required_gates == PASS:

MJ.permit -> R2 -> bounded_output

else:

HOLD | FAIL_TECHNICAL | DENY

Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 168 of 431. PRIVATE PRE-DAY-0 - UNSI



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 169 of 431. Chapter 25 F-074 - Freshness age Exact expression Age=now-observed_at Meaning. Ageofasourceobservationorderivedcell. Bound manifestations,JO,MK,SISTER Gateway stage.JPcanonicalrepresentation,MKapplicability,JOproof,andboundedMJoutput Construct Formula-specific expression Module MJ.PBMEF.Bangel.spreadsheets.algorithms_scaling Namespace MJ.PBMEF.Bangel.spreadsheets.algorithms_scaling.F_074 Imp...

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_25_F_074_Freshness_a
reference "PINK-01-P0169"
state R -> R1
node N1
representation JP(PINK-01-P0169)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 169 of 431. Chapter 25 F-074 - Fresh
```

NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source
MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 170 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper III - F051-F100 25.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-074 and its assumptions, inputs, ou

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0170"
state R -> R1
node N1
representation JP(PINK-01-P0170)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 170 of 431. PRIVATE PRE-DAY-0 - UNSI
```

Node Placement / Rainbow Path

Rectangle

Cone

Sister umbrella

EVE/lake

next-cycle re-entry



R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source

MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 171 of 431. Chapter 26 F-075 - Staleness gate Exact expression

Age<=freshness_limit Meaning.

Acelliscurrentlyonlyinsideitsdeclaredfreshnesspolicy. Bound manifestations.JO,ANGELS,MERMAID Gateway stage.JPcanonicalrepresentation,MKapplicability,JOproof,andboundedMJoutput

Construct Formula-specific expression Module

MJ.PBMEF.Bangel.spreadsheets.algorithms_scaling Namesp...

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_26_F_075_Staleness_g
reference "PINK-01-P0171"
state R -> R1
node N1
representation JP(PINK-01-P0171)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 171 of 431. Chapter 26 F-075 - Stale
```

Internal reference only. No physical validation, operation authority, product certification, external effect, IP approval, or endorsement. MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 171 of 431. Chapter 26 F-075 - Staleness gate Exact expression

MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 171 of 431. Chapter 26 F-075 - Staleness gate Exact expression

MJos Predictive Model | First manifestation of the Bangel Language

MJ Physics Engineering | Owned and operated by Michael Bangel | Clearwater, Florida

RAINBOW | Original collection page 7955 | Terminology edition; source evidence remains historical

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 172 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper III - F051-F100 26.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-075anditsassumptions, inputs, ou

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0172"
state R -> R1
node N1
representation JP(PINK-01-P0172)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 172 of 431. PRIVATE PRE-DAY-0 - UNSI
```

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source

MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 173 of 431. Chapter 27 F-076 - Data-performance correlation Exact expression

$r_{xy} = \text{Cov}(X,Y) / (\sigma_x \sigma_y)$ Meaning.

Descriptive correlation between data characteristics and performance; not a causal claim.

Bound manifestations. MK, JO, MERMAID Gateway

stage. JP canonical representation, MK applicability, JO proof, and bounded MJ output

Construct Formula-specific expression Module

MJ.PBMEF.Bangel.spreadsheets.algorithms_scaling Namespace MJ.PBMEF.dena

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_27_F_076_Data_perfor
reference "PINK-01-P0173"
state R -> R1
node N1
representation JP(PINK-01-P0173)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 173 of 431. Chapter 27 F-076 - Data-
```

Node Placement / Rainbow Path

Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source

MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 174 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper III - F051-F100 27.2 Lifecycle from request to final output

1. R/R0: receivefounderoruserpurposeandexactcommandscope.

2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives.

3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority.

4. JP: createthecanonicalCAPOforF-076anditsassumptions, inputs, ou

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0174"
state R -> R1
node N1
representation JP(PINK-01-P0174)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 174 of 431. PRIVATE PRE-DAY-0 - UNSI
```

NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source
MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 175 of 431. Chapter 28 F-077 - Silo unification gate Exact expression
UnifiedMetric=SameMeaning AND SameUnit AND SamePeriod AND SameAuthority AND SameLineage Meaning.
Departmentalsourcesunifyonlywhensemantic,unit,period,authority,andlineageconditionsagree. Bound manifestations.ELSA,JP,JO,MERMAID Gateway stage.JPcanonicalrepresentation,MKapplicability,JOproof,andboundedMJoutput
Construct Formula-specific expression Module MJ.PB

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_28_F_077_Silo_unific
reference "PINK-01-P0175"
state R -> R1
node N1
representation JP(PINK-01-P0175)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 175 of 431. Chapter 28 F-077 - Silo
```



R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Pink source
 MJ_PBMF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page
 176 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper III
 - F051-F100 28.2 Lifecycle from request to final output 1. R/R0:
 receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin:
 parsemodules,namespaces,declarations,literals,tuples,constraints,anddirectives.
 3. Elsa:
 reversesemanticpurpose,variablemeaning,andambiguitywithoutcreatingauthority.
 4. JP:create the canonical CAPO for F-077 and its assumptions, inputs, ou

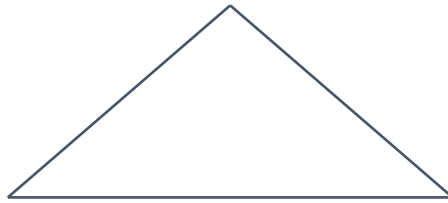
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0176"
state R -> R1
node N1
representation JP(PINK-01-P0176)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ PBMEF Pink Paper Gateway Expression and Full Lifecycle_001.pdf, page 176 of 431. PRIVATE PRE-DAY-0 - UNSI
```

NODE PLACEMENT / RAINBOW PATH



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.



R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source
 MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page
 177 of 431. Chapter 29 F-078 - Formula verification residual Exact expression
 r_formula=y_reported-y_recomputed Meaning.
 Silent formula corruption is detected by independent deterministic recomputation.
 Bound manifestations JO,MK,ANGELS Gateway
 stage J P canonical representation, MK applicability, JO proof, and bounded MJ output
 Construct Formula-specific expression Module
 MJ_PBMEF.Bangel.spreadsheets.algorithms_scaling Namesp...

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_29_F_078_Formula_ver
reference "PINK-01-P0177"
state R -> R1
node N1
representation JP(PINK-01-P0177)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ PBMEF Pink Paper Gateway Expression and Full Lifecycle 001.pdf, page 177 of 431. Chapter 29 F-078 - Formula
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 178 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper III - F051-F100 29.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-078anditsassumptions, inputs, ou

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0178"
state R -> R1
node N1
representation JP(PINK-01-P0178)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 178 of 431. PRIVATE PRE-DAY-0 - UNSI
```

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

Source Rule / Intent

Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 179 of 431. Chapter 30 F-079 - Operational intake complete- ness Exact expression IntakePass=process_defined AND users_known AND workload_known AND SLA_known AND authority_known Meaning. Scalingworkbeginsonlyaftertheprocess,concurrency,workload,servicetarget,andau- thorityareexplicit. Bound manifestations.Bangel ,ELSA,JP,JO,MJ Gateway stage.JPcanonicalrepresentation,MKapplicability,JOproof,andboundedMJoutput Construct Formula-spe

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

module MJ.Rainbow.Chapter_30_F_079_Operational
reference "PINK-01-P0179"
state R -> R1
node N1
representation JP(PINK-01-P0179)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 179 of 431. Chapter 30 F-079 - Opera

Node Placement / Rainbow Path

Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source

MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 180 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper III - F051-F100 output JO.receipt(PASS | HOLD | FAIL_TECHNICAL | DENY) } 30.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authori...

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0180"
state R -> R1
node N1
representation JP(PINK-01-P0180)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 180 of 431. PRIVATE PRE-DAY-0 - UNSI
```

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source
MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 181 of 431. Chapter 31 F-080 - Spreadsheet capacity gate Exact expression $\lambda_{total} \leq \rho_{max} \sum p(\mu_p)$ AND $memory_required \leq memory_available$ AND $cross_partition_edges \leq cut_limit$ Meaning. Admission requires throughput, memory, and partition-boundary capacity to pass together. Bound manifestations. MK, JO, M3, SISTER, MJOS Gateway stage. Bangel.begin workbook declaration, JP model, MK cost, JO deterministic execution...

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_31_F_080_Spreadsheet
reference "PINK-01-P0181"
state R -> R1
node N1
representation JP(PINK-01-P0181)
physics MK(classify, units, boundary, uncertainty)
verify JO(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 181 of 431. Chapter 31 F-080 - Sprea
```

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source

MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 182 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper III - F051-F100 31.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-080anditsassumptions, inputs, ou

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R

reference "PINK-01-P0182"

state R -> R1

node N1

representation JP(PINK-01-P0182)

physics MK(classify, units, boundary, uncertainty)

verify J0(types, evidence, receipts)

if all_required_gates == PASS:

MJ.permit -> R2 -> bounded_output

else:

HOLD | FAIL_TECHNICAL | DENY

Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 182 of 431. PRIVATE PRE-DAY-0 - UNSI

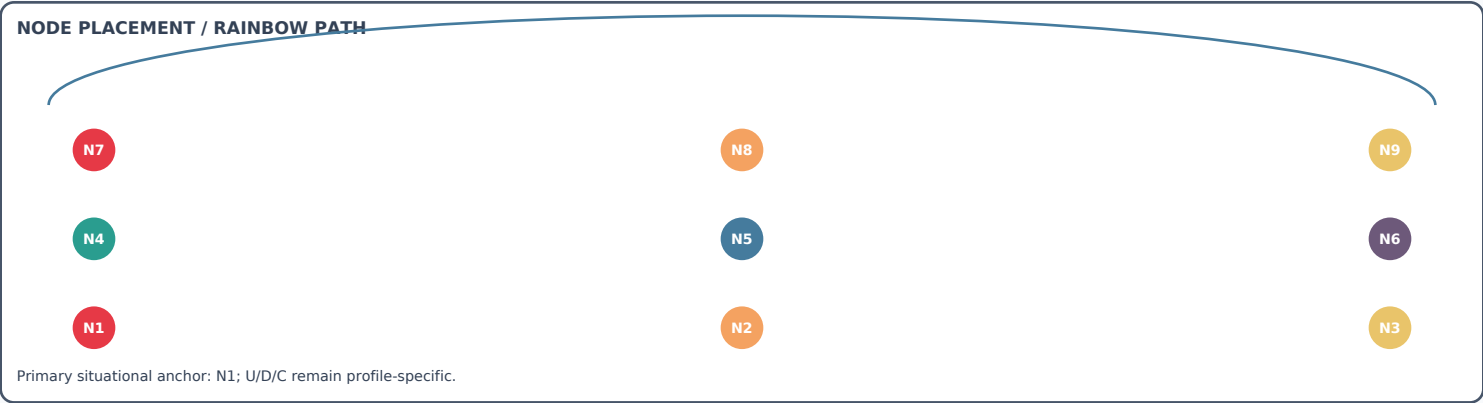


R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 183 of 431. Chapter 32 F-081 - First-noise rectangle height Exact expression H_R=h_noise,1 Meaning. Rectanglemaximumheightisthefirstvalidatednoise-detectionplane. Bound manifestations.SISTER,MK,JO Gateway stage.R1predictionandnormal-constellationcalibrationbeforeN1 Construct Formula-specific expression Module MJ.PBMEF.containment.geometry_h2_reference Namesp...

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> Mj bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_32_F_081_First_noise
reference "PINK-01-P0183"
state R -> R1
node N1
representation JP(PINK-01-P0183)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 183 of 431. Chapter 32 F-081 - First
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 184 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper III - F051-F100 32.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-081anditsassumptions, inputs, ou

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0184"
state R -> R1
node N1
representation JP(PINK-01-P0184)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 184 of 431. PRIVATE PRE-DAY-0 - UNSI
```

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

Source Rule / Intent

Pink source

MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 185 of 431. Chapter 33 F-082 - Reference gas density Exact expression

$\rho_g = P \cdot M / (Z \cdot R \cdot T)$ Meaning.

Actual gas density depends on measured pressure, temperature, molar mass, and compressibility. Bound manifestations. MK, JO, JP Gateway stage. MJ.23 typed measurement branch and MK physics classification Construct

Formula-specific expression Module

MJ.PBMEF.containment.geometry_h2_reference Namesp...

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_33_F_082_Reference_g
reference "PINK-01-P0185"
state R -> R1
node N1
representation JP(PINK-01-P0185)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 185 of 431. Chapter 33 F-082 - Refer
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 186 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper III - F051-F100 33.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-082anditsassumptions, inputs, ou

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0186"
state R -> R1
node N1
representation JP(PINK-01-P0186)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 186 of 431. PRIVATE PRE-DAY-0 - UNSI
```

Node Placement / Rainbow Path

R

R1

N1

U

D

C

OUT

Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

Source Rule / Intent

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Pink source

MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 187 of 431. Chapter 34 F-083 - 24 mg reference volume Exact expression

V_24=m_24/rho_ref Meaning.

24mgdefinesareferencegasvolumeunderadeclaredstateanddoesnotreplacethe23mg floor. Bound manifestations.JP,MK,JO Gateway

stage.MJ.23typedmeasurementbranchandMKphysicsclassification Construct

Formula-specific expression Module

MJ.PBMEF.containment.geometry_h2_reference Namesp...

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.Chapter_34_F_083_24_mg_refer
reference "PINK-01-P0187"
state R -> R1
node N1
representation JP(PINK-01-P0187)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 187 of 431. Chapter 34 F-083 - 24 mg
```



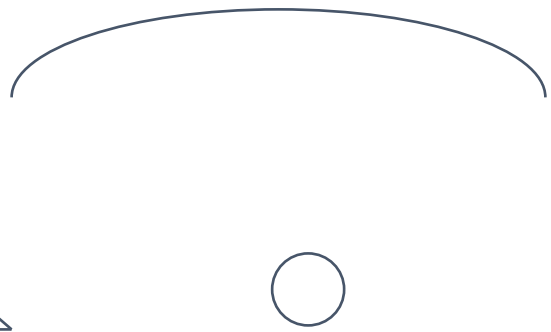
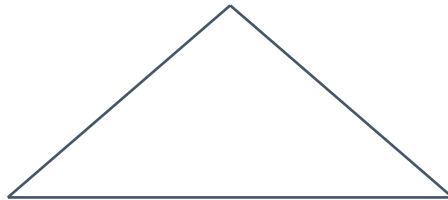

R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 188 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper III - F051-F100 34.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-083anditsassumptions, inputs, ou

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0188"
state R -> R1
node N1
representation JP(PINK-01-P0188)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 188 of 431. PRIVATE PRE-DAY-0 - UNSI
```

NODE PLACEMENT / RAINBOW PATH



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source
 MJ_PBMF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page
 189 of 431. Chapter 35 F-084 - Rectangle depth Exact expression
 $D_R = V_{24} / (W_R * H_R)$ Meaning.
 Referenced depth adapted to measure height and declared width. Bound
 manifestations. SISTER, MK, JO Gateway
 stage, J canonical representation, MK applicability, JO proof, and bounded MJ output
 Construct Formula-specific expression Module
 MJ_PBMF containment geometry_h2_reference Namesp...

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_35_F_084_Rectangle_d
reference "PINK-01-P0189"
state R -> R1
node N1
representation JP(PINK-01-P0189)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ PBMEF Pink Paper Gateway Expression and Full Lifecycle 001.pdf, page 189 of 431. Chapter 35 F-084 - Recta
```

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source

MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 190 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper III - F051-F100 35.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-084anditsassumptions, inputs, ou

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R

reference "PINK-01-P0190"

state R -> R1

node N1

representation JP(PINK-01-P0190)

physics MK(classify, units, boundary, uncertainty)

verify J0(types, evidence, receipts)

if all_required_gates == PASS:

MJ.permit -> R2 -> bounded_output

else:

HOLD | FAIL_TECHNICAL | DENY

Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 190 of 431. PRIVATE PRE-DAY-0 - UNSI

NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MI permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source
 MJ.PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page
 191 of 431. Chapter 36 F-085 - Cone height ratio Exact expression
 $H_C = k \cdot H \cdot H_R$; $k_H, std = 2$ Meaning. Standard cone height is twice rectangle height.
 Bound manifestations.JP,MK,JO Gateway
 stage.JPcanonicalrepresentation,MKapplicability,JOproof,andboundedMJoutput
 Construct Formula-specific expression Module
 MJ.PBMEF.containment.geometry.h2_reference.Namespace
 MJ.PBMEF.containment.geometry.h2_reference.F_085 Imp...

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_36_F_085_Cone_height
reference "PINK-01-P0191"
state R -> R1
node N1
representation JP(PINK-01-P0191)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ PBMEF Pink Paper Gateway Expression and Full Lifecycle.001.pdf, page 191 of 431. Chapter 36 F-085 - Cone
```

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source

MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 192 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper III - F051-F100 36.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-085 and its assumptions, inputs, ou

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R

reference "PINK-01-P0192"

state R -> R1

node N1

representation JP(PINK-01-P0192)

physics MK(classify, units, boundary, uncertainty)

verify J0(types, evidence, receipts)

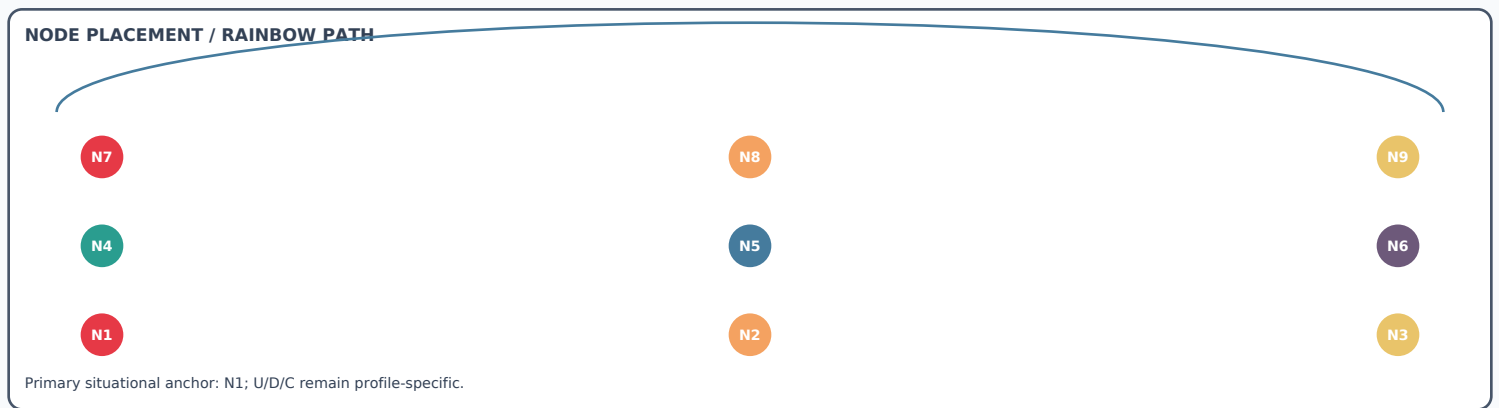
if all_required_gates == PASS:

MJ.permit -> R2 -> bounded_output

else:

HOLD | FAIL_TECHNICAL | DENY

Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 192 of 431. PRIVATE PRE-DAY-0 - UNSI



R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source
 MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page
 193 of 431. Chapter 37 F-086 - Cone top-width ratio Exact expression
 $W_T = k_W W_B$; $k_W, \text{std}=2$ Meaning.
 Standard top characteristic width is twice bottom width. Bound
 manifestations. JP, MK, JO Gateway
 stage. JP canonical representation, MK applicability, JO proof, and bounded MJ output
 Construct Formula-specific expression Module
 MJ_PBMEF.containment.geometry_h2_reference Namesp...

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_37_F_086_Cone_top_wi
reference "PINK-01-P0193"
state R -> R1
node N1
representation JP(PINK-01-P0193)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ PBMEF Pink Paper Gateway Expression and Full Lifecycle.001.pdf, page 193 of 431. Chapter 37 F-086 - Cone
```

NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

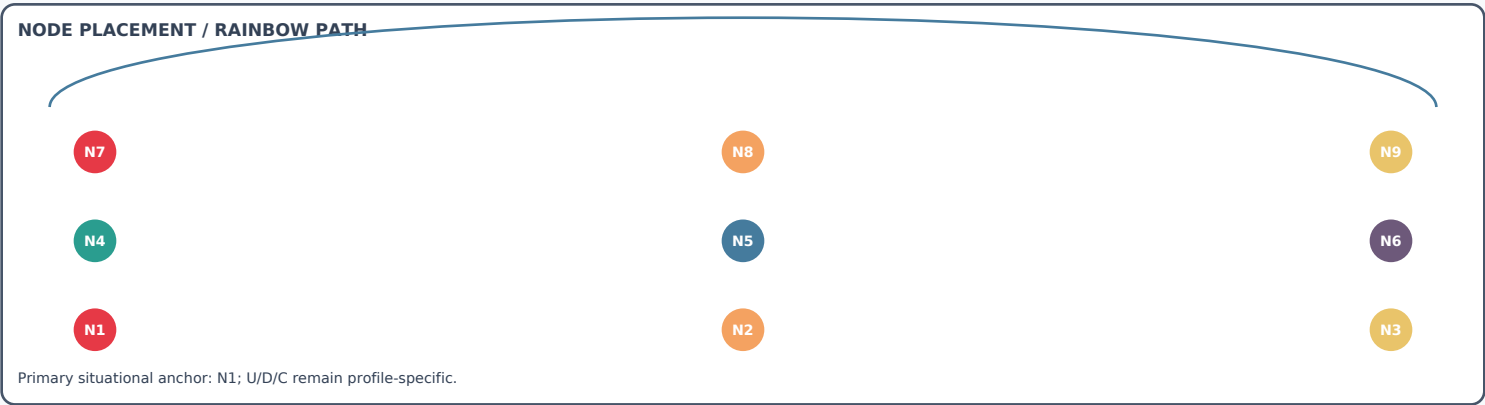
Pink source
MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 194 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper III - F051-F100 37.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-086anditsassumptions, inputs, ou

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0194"
state R -> R1
node N1
representation JP(PINK-01-P0194)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 194 of 431. PRIVATE PRE-DAY-0 - UNSI
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 195 of 431. Chapter 38 F-087 - Cone area by height Exact expression $A(z)=A_B(1+(k_W-1)*z/H_C)^2$ Meaning. Similar-sectionconicalexpansionarea. Bound manifestations.MK,JO,SISTER Gateway stage.JPcanonicalrepresentation,MKapplicability,JOproof,andboundedMJoutput Construct Formula-specific expression Module MJ.PBMEF.containment.geometry_h2_reference Namespace MJ.PBMEF.containment.geometry_h2_reference.F_087 Imp...

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_38_F_087_Cone_area_b
reference "PINK-01-P0195"
state R -> R1
node N1
representation JP(PINK-01-P0195)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 195 of 431. Chapter 38 F-087 - Cone
```


Node Placement / Rainbow Path



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

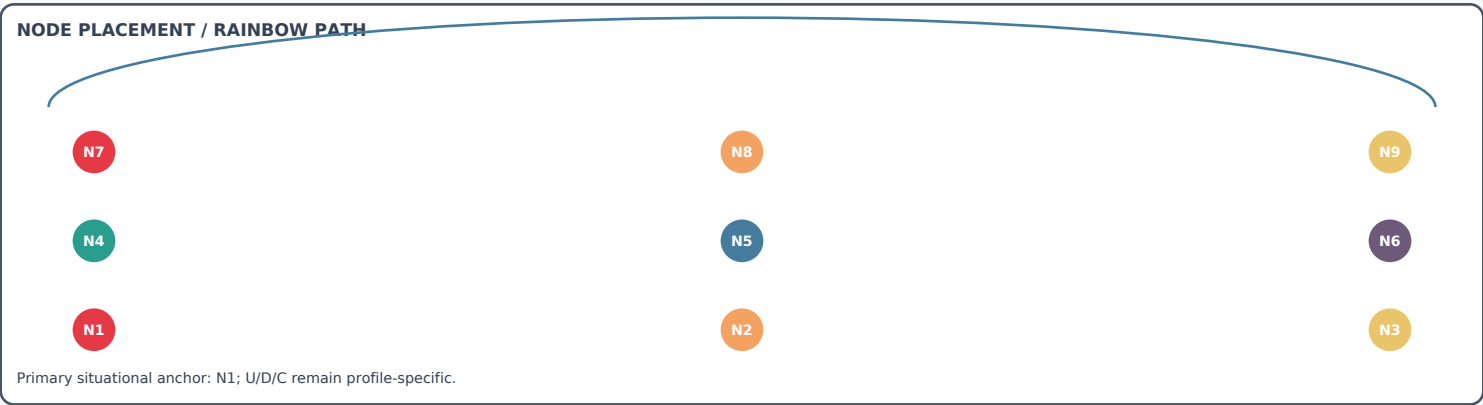
Pink source
MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 196 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper III - F051-F100 38.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-087 and its assumptions, inputs, ou

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0196"
state R -> R1
node N1
representation JP(PINK-01-P0196)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 196 of 431. PRIVATE PRE-DAY-0 - UNSI
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 197 of 431. Chapter 39 F-088 - Cone partial volume Exact expression $V_C(z)=A_B(z+(k_W-1)z^2/H_C+(k_W-1)^2z^3/(3H_C^2))$ Meaning. Volume upto observed gas height. Bound manifestations. MK, JO, SISTER Gateway stage. JP canonical representation, MK applicability, JO proof, and bounded MJ output Construct Formula-specific expression Module MJ.PBMEF.containment.geometry_h2_reference Namespace MJ.PBMEF.containment.geometry_h2_reference.F_088 Import MJ

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_39_F_088_Cone_partia
reference "PINK-01-P0197"
state R -> R1
node N1
representation JP(PINK-01-P0197)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 197 of 431. Chapter 39 F-088 - Cone
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 198 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper III - F051-F100 39.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-088anditsassumptions, inputs, ou

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0198"
state R -> R1
node N1
representation JP(PINK-01-P0198)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 198 of 431. PRIVATE PRE-DAY-0 - UNSI
```

Node Placement / Rainbow Path

Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

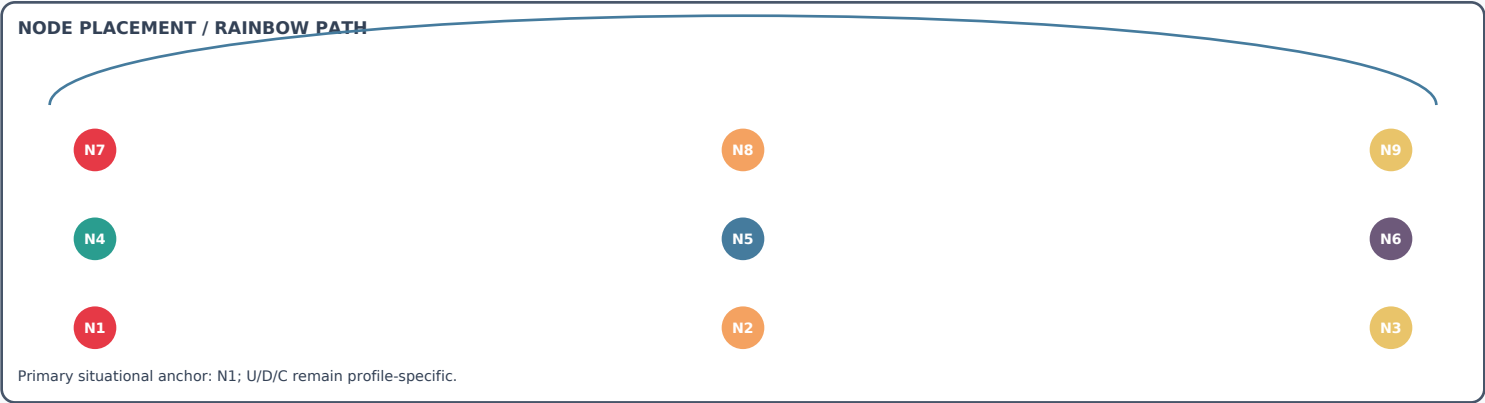
Pink source
MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 199 of 431. Chapter 40 F-089 - Full conical-frustum volume Exact expression $V_C = H_C/3*(A_B + \sqrt{A_B*A_T} + A_T)$ Meaning. Fullconical expansion volume. Bound manifestations. MK, JO, JP Gateway stage. JP canonical representation, MK applicability, JO proof, and bounded MJ output Construct Formula-specific expression Module
MJ.PBMEF.containment.geometry_h2_reference Namespace
MJ.PBMEF.containment.geometry_h2_reference.F_089 Imp...

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

module MJ.Rainbow.Chapter_40_F_089_Full_conica
reference "PINK-01-P0199"
state R -> R1
node N1
representation JP(PINK-01-P0199)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 199 of 431. Chapter 40 F-089 - Full



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 200 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper III - F051-F100 40.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-089anditsassumptions, inputs, ou

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0200"
state R -> R1
node N1
representation JP(PINK-01-P0200)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 200 of 431. PRIVATE PRE-DAY-0 - UNSI
```

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.



R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source

MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 201 of 431. Chapter 41 F-090 - Pearl cone-top anchor Exact expression

z_P0=H_R+H_C; standard=3H_R Meaning.

Pearl simulation begins at the top-of-cone information plane. Bound manifestations. PEARL, MK, JO Gateway stage. Sister/EVE/MK/JO containment or simulation evidence before MJ permit

Construct Formula-specific expression Module

MJ.PBMEF.containment.geometry_h2_reference Namesp...

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_41_F_090_Pearl_cone_
reference "PINK-01-P0201"
state R -> R1
node N1
representation JP(PINK-01-P0201)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 201 of 431. Chapter 41 F-090 - Pearl
```

Internal reference only. No physical validation, operation authority, product certification, external effect, IP approval, or other legal effect. MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 201 of 431. Chapter 41 F-090 - Pearl

MJos Predictive Model | First manifestation of the Bangel Language

MJ Physics Engineering | Owned and operated by Michael Bangel | Clearwater, Florida

RAINBOW | Original collection page 7985 | Terminology edition; source evidence remains historical

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source

MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 202 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper III - F051-F100 41.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-090anditsassumptions, inputs, ou

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R

reference "PINK-01-P0202"

state R -> R1

node N1

representation JP(PINK-01-P0202)

physics MK(classify, units, boundary, uncertainty)

verify J0(types, evidence, receipts)

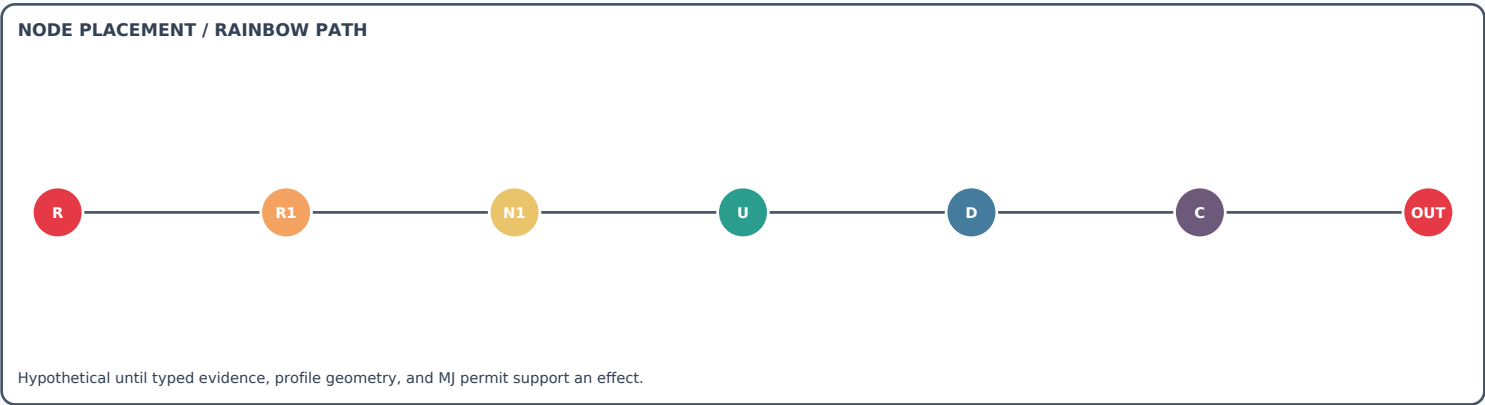
if all_required_gates == PASS:

MJ.permit -> R2 -> bounded_output

else:

HOLD | FAIL_TECHNICAL | DENY

Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 202 of 431. PRIVATE PRE-DAY-0 - UNSI



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 203 of 431. Chapter 42 F-091 - Observed gas mass Exact expression $m_g = \rho_g \cdot V_C(h_g)$ Meaning. Gas mass from observed height and state-dependent density. Bound manifestations. MK, EVE, JO Gateway stage. MJ.23 typed measurement branch and MK physics classification Construct Formula-specific expression Module MJ.PBMEF.containment.geometry_h2_reference Namesp...

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_42_F_091_Observed_ga
reference "PINK-01-P0203"
state R -> R1
node N1
representation JP(PINK-01-P0203)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 203 of 431. Chapter 42 F-091 - Obser
```

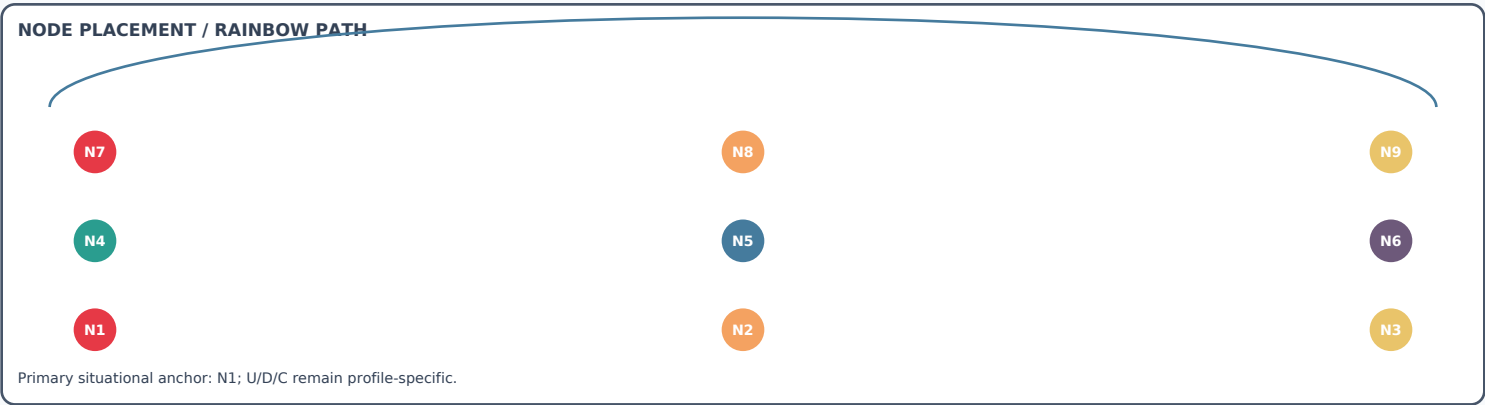



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 204 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper III - F051-F100 42.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-091anditsassumptions, inputs, ou

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0204"
state R -> R1
node N1
representation JP(PINK-01-P0204)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 204 of 431. PRIVATE PRE-DAY-0 - UNSI
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 205 of 431. Chapter 43 F-092 - Gas mass-flow from height Exact expression $m_{dot}=\rho*A(h_g)*h_{dot_g}+V_C(h_g)*\rho_{dot}$ Meaning. Mass-flowaccountingincludessdensitychanges. Bound manifestations.MK,EVE,JO Gateway stage.MJ.23typedmeasurementbranchandMKphysicsclassification Construct Formula-specific expression Module MJ.PBMEF.containment.geometry_h2_reference Namespace MJ.PBMEF.containment.geometry_h2_reference.F_092 Import MJ.PBMEF.Ma

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_43_F_092_Gas_mass_fl
reference "PINK-01-P0205"
state R -> R1
node N1
representation JP(PINK-01-P0205)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 205 of 431. Chapter 43 F-092 - Gas m
```

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source

MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 206 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper III - F051-F100 43.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-092anditsassumptions, inputs, ou

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R

reference "PINK-01-P0206"

state R -> R1

node N1

representation JP(PINK-01-P0206)

physics MK(classify, units, boundary, uncertainty)

verify J0(types, evidence, receipts)

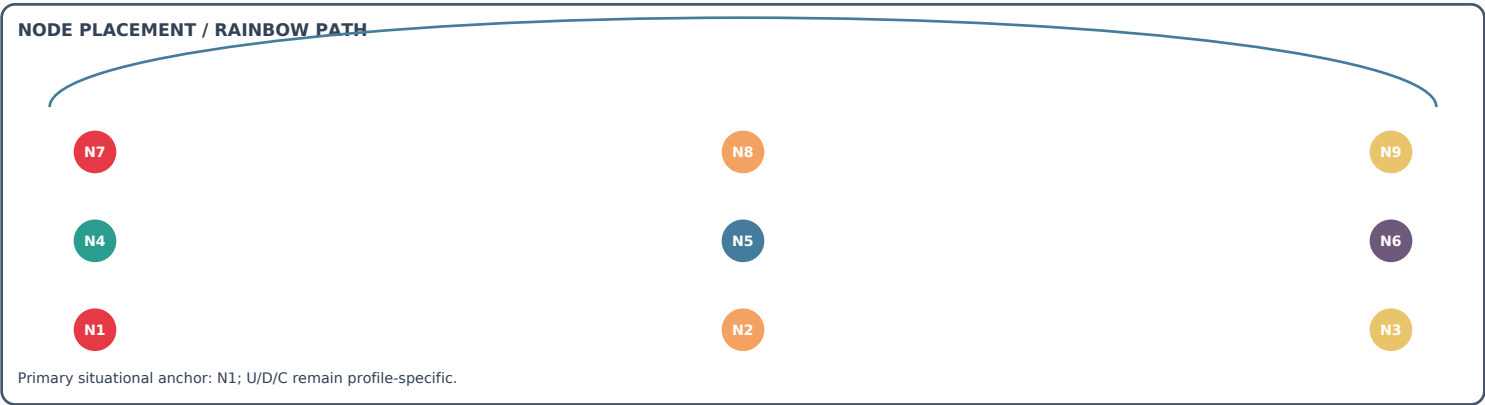
if all_required_gates == PASS:

MJ.permit -> R2 -> bounded_output

else:

HOLD | FAIL_TECHNICAL | DENY

Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 206 of 431. PRIVATE PRE-DAY-0 - UNSI



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 207 of 431. Chapter 44 F-093 - Observed gas-height predictor Exact expression $\hat{h}=\text{clip}(h+v*dt+0.5*a*dt^2,0,H_C)$ Meaning. Boundedpredictionofobservedgas-frontheight. Bound manifestations.SISTER,MK,JO Gateway stage.MJ.23typedmeasurementbranchandMKphysicsclassification Construct Formula-specific expression Module MJ.PBMEF.containment.geometry_h2_reference Namesp...

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> Mj bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_44_F_093_Observed_ga
reference "PINK-01-P0207"
state R -> R1
node N1
representation JP(PINK-01-P0207)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 207 of 431. Chapter 44 F-093 - Obser
```

Node Placement / Rainbow Path



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

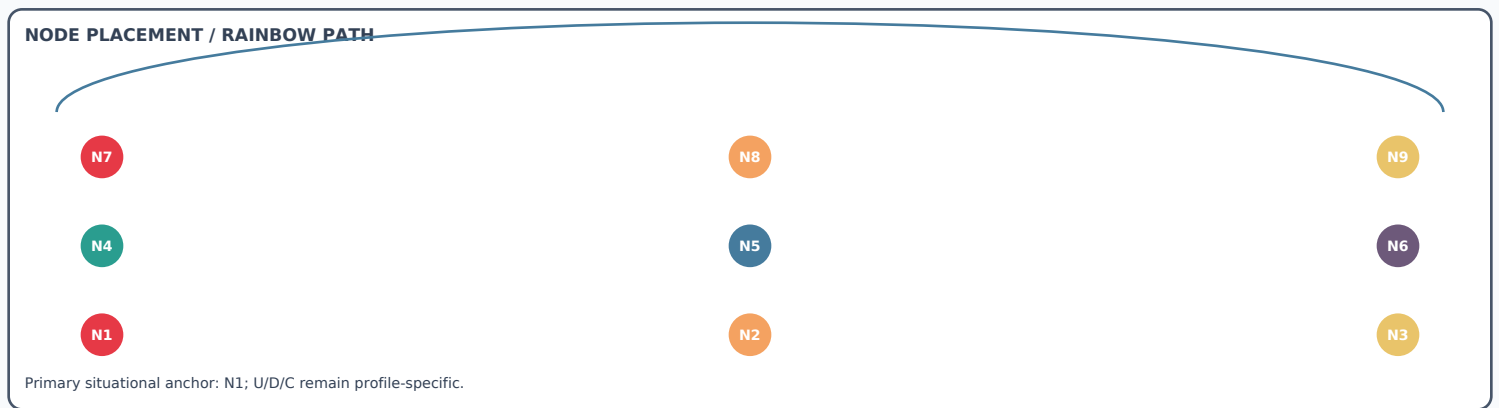
R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 208 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper III - F051-F100 44.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-093anditsassumptions, inputs, ou

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0208"
state R -> R1
node N1
representation JP(PINK-01-P0208)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 208 of 431. PRIVATE PRE-DAY-0 - UNSI
```



R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source
 MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page
 209 of 431. Chapter 45 F-094 - Gas net-force balance Exact expression
 $m_{eff}a_z = F_b + F_p + F_{act}F_d - F_{wall}F_{mix}$ Meaning.
 Geometry alone does not guarantee acceleration. Bound
 manifestations. MK, JO, SISTER Gateway
 stage. MJ. 23 typed measurement branch and MK physics classification Construct
 Formula-specific expression Module
 MJ_PBMEF.containment.geometry_h2_reference Namesp...

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_45_F094_Gas_net_for
reference "PINK-01-P0209"
state R -> R1
node N1
representation JP(PINK-01-P0209)
physics MK(classify, units, boundary, uncertainty)
verify JO(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ PBMEF Pink Paper Gateway Expression and Full Lifecycle 001.pdf, page 209 of 431. Chapter 45 F-094 - Gas n
```

Node Placement / Rainbow Path



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source
MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 210 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper III - F051-F100 45.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-094anditsassumptions, inputs, ou

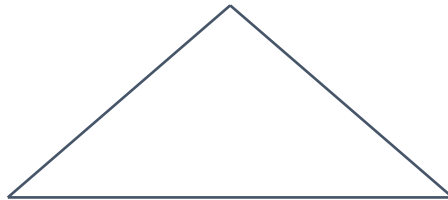
Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0210"
state R -> R1
node N1
representation JP(PINK-01-P0210)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 210 of 431. PRIVATE PRE-DAY-0 - UNSI
```

NODE PLACEMENT / RAINBOW PATH



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source
 MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page
 211 of 431. Chapter 46 F-095 - Buoyancy force Exact expression

$$F_b = (\rho_{\text{ambient}} - \rho_{\text{g}}) * g * V_{\text{g}}$$
 Meaning.
 Reference buoyancy term under declared environment. Bound
 manifestations. MK, JO, EVE Gateway
 stage. JPCanonical representation, MKapplicability, JOproof, and bounded MJoutput
 Construct Formula-specific expression Module
 MJ_PBMEF.containment.geometry.h2_reference.Namesp...

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_46_F_095_Buoyancy_fo
reference "PINK-01-P0211"
state R -> R1
node N1
representation JP(PINK-01-P0211)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ PBMEF Pink Paper Gateway Expression and Full Lifecycle 001.pdf, page 211 of 431. Chapter 46 F-095 - Buoya
```




R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 212 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper III - F051-F100 46.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-095anditsassumptions, inputs, ou

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0212"
state R -> R1
node N1
representation JP(PINK-01-P0212)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 212 of 431. PRIVATE PRE-DAY-0 - UNSI
```

Node Placement / Rainbow Path

R

R1

N1

U

D

C

OUT

Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source
MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 213 of 431. Chapter 47 F-096 - Drag force Exact expression $F_d=0.5\cdot C_d\cdot \rho_{\text{ambient}}\cdot A_{\text{projected}}\cdot u\cdot \text{abs}(u)$ Meaning. Referencedragtermunderdeclaredcoefficientandflow. Bound manifestations.MK,JO,EVE Gateway stage.JPcanonicalrepresentation,MKapplicability,JOproof,andboundedMJoutput Construct Formula-specific expression Module MJ.PBMEF.containment.geometry_h2_reference Namesp...

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

module MJ.Rainbow.Chapter_47_F_096_Drag_force_
reference "PINK-01-P0213"
state R -> R1
node N1
representation JP(PINK-01-P0213)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 213 of 431. Chapter 47 F-096 - Drag

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source

MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 214 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper III - F051-F100 47.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-096anditsassumptions, inputs, ou

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R

reference "PINK-01-P0214"

state R -> R1

node N1

representation JP(PINK-01-P0214)

physics MK(classify, units, boundary, uncertainty)

verify J0(types, evidence, receipts)

if all_required_gates == PASS:

MJ.permit -> R2 -> bounded_output

else:

HOLD | FAIL_TECHNICAL | DENY

Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 214 of 431. PRIVATE PRE-DAY-0 - UNSI



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 215 of 431. Chapter 48 F-097 - Flow continuity Exact expression $Q=A(z)*u(z)$ Meaning. For fixed flow, increasing area does not itself accelerate the gas. Bound manifestations. MK, JO, SISTER Gateway stage. JP canonical representation, MK applicability, JO proof, and bounded MJ output Construct Formula-specific expression Module MJ.PBMEF.containment.geometry_h2_reference Namespace MJ.PBMEF.containment.geometry_h2_reference.F_097 Imp...

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_48_F_097_Flow_continuity
reference "PINK-01-P0215"
state R -> R1
node N1
representation JP(PINK-01-P0215)
physics MK(classify, units, boundary, uncertainty)
verify JO(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 215 of 431. Chapter 48 F-097 - Flow continuity Exact expression Q=A(z)*u(z)
```

Node Placement / Rainbow Path



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 216 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper III - F051-F100 48.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-097anditsassumptions, inputs, ou

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0216"
state R -> R1
node N1
representation JP(PINK-01-P0216)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 216 of 431. PRIVATE PRE-DAY-0 - UNSI
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 217 of 431. Chapter 49 F-098 - Residual reservoir capacity Exact expression $C_{res,k} = \gamma_k C_{rect,k}$; $0 \leq \gamma_k < 1$ Meaning. Residual reservoir remains smaller than rectangle reference capacity. Bound manifestations. SISTER, EVE, JO Gateway stage. Sister/EVE/MK/JO containment or simulation evidence before MJ permit Construct Formula-specific expression Module MJ.PBMEF.containment.geometry_h2_reference Namesp...

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_49_F_098_Residual_re
reference "PINK-01-P0217"
state R -> R1
node N1
representation JP(PINK-01-P0217)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 217 of 431. Chapter 49 F-098 - Resid
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 218 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper III - F051-F100 49.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-098anditsassumptions, inputs, ou

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0218"
state R -> R1
node N1
representation JP(PINK-01-P0218)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 218 of 431. PRIVATE PRE-DAY-0 - UNSI
```

Node Placement / Rainbow Path



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 219 of 431. Chapter 50 F-099 - Umbrella/EVE/reservoir balance Exact expression $q_{cone}=q_{down}+q_{EVE}+q_{res}+q_{escape}+r$ Meaning. Downward redistribution, EVE evidence, reservoir admission, and escape are separately accounted. Bound manifestations.EVE,SISTER,MERMAID Gateway stage.Sister/EVE/MK/JOcontainmentorsimulationevidencebeforeMJpermit Construct Formula-specific expression Module MJ.PBMEF.containment.geometry_h2_reference Namesp

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.Chapter_50_F_099_Umbrella_EV
reference "PINK-01-P0219"
state R -> R1
node N1
representation JP(PINK-01-P0219)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 219 of 431. Chapter 50 F-099 - Umbre
```




R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 220 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper III - F051-F100 50.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules,namespaces,declarations,literals,types,constraints,anddirectives. 3. Elsa: recoversemanticpurpose,variablemeaning,andambiguitywithoutcreatingauthority. 4. JP:createthecanonicalCAPOforF-099anditsassumptions,inputs,ou

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0220"
state R -> R1
node N1
representation JP(PINK-01-P0220)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 220 of 431. PRIVATE PRE-DAY-0 - UNSI
```

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source

MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 221 of 431. Chapter 51 F-100 - Containment modification pred- icate Exact expression

Valid(theta)=typed&positive&recomputed&conserved&bounded&evidenced&MK&JO&MJ

Meaning. Sizechangespreservecorelogicbutrequirefullrecalculationandgates.

Bound manifestations.Bangel JP,MK,JO,MJ Gateway

stage.Sister/EVE/MK/JOcontainmentorsimulationevidencebeforeMJpermit

Construct Formula-specific expression Mod...

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_51_F_100_Containment
reference "PINK-01-P0221"
state R -> R1
node N1
representation JP(PINK-01-P0221)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 221 of 431. Chapter 51 F-100 - Conta
```

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source

MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 222 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper III - F051-F100 51.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-100anditsassumptions, inputs, ou

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R

reference "PINK-01-P0222"

state R -> R1

node N1

representation JP(PINK-01-P0222)

physics MK(classify, units, boundary, uncertainty)

verify J0(types, evidence, receipts)

if all_required_gates == PASS:

MJ.permit -> R2 -> bounded_output

else:

HOLD | FAIL_TECHNICAL | DENY

Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 222 of 431. PRIVATE PRE-DAY-0 - UNSI

NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source
MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 223 of 431. MJ-PBMEFPinkPaper-VolumeIV
FormulaGatewayBindingsF-101throughF-145
MichaelBangel-AuthorandArchitect August2026

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.MJ_PBMEFPinkPaper_VolumeIV_F
reference "PINK-01-P0223"
state R -> R1
node N1
representation JP(PINK-01-P0223)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 223 of 431. MJ-PBMEFPinkPaper-Volume
```

Node Placement / Rainbow Path

Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

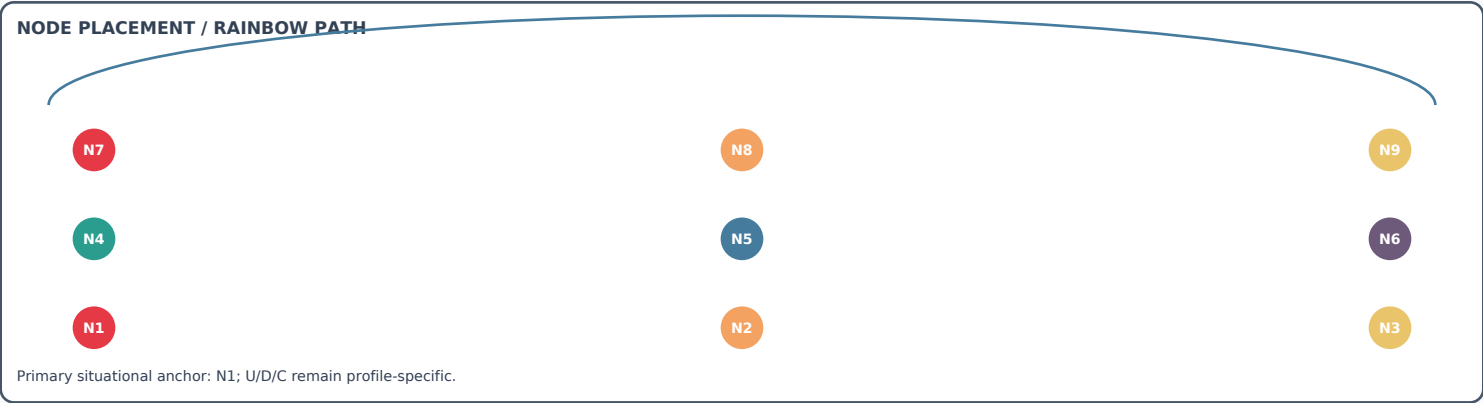
Pink source
MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 224 of 431. Contents 1 Verification method 5 2 F-101 - Rear outlet elevation 6
2.1 Gatewaylife-cycleexample6 2.2
Lifecyclefromrequesttofinaloutput7 3
F-102 - Pearl simulation exclusion radius 8 3.1 Gatewaylife-cycleexample
.....8 3.2 Life

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

module MJ.Rainbow.Contents_1_Verification_meth
reference "PINK-01-P0224"
state R -> R1
node N3
representation JP(PINK-01-P0224)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 224 of 431. Contents 1 Verification



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 225 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper IV - F101-F145 13.2Lifecyclefromrequesttofinaloutput29 14F-113 - Circular return-port area 30 14.1Gatewaylife-cycleexample30 14.2Lifecyclefromrequesttofinaloutput31 15F-114

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0225"
state R -> R1
node N1
representation JP(PINK-01-P0225)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 225 of 431. PRIVATE PRE-DAY-0 - UNSI
```

Node Placement / Rainbow Path

R

R1

N1

U

D

C

OUT

Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

Source Rule / Intent

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

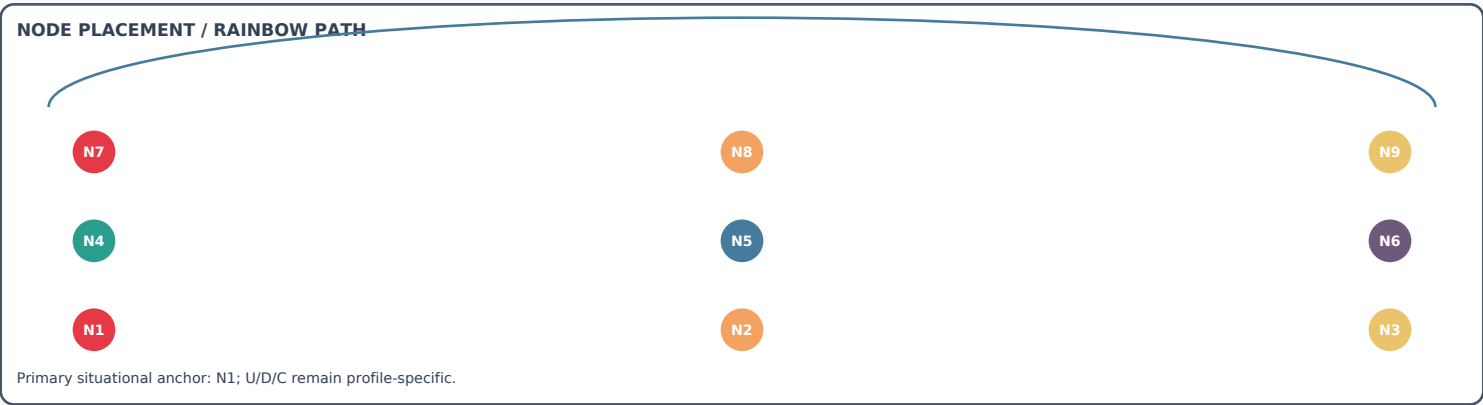
Pink source
MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 226 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper IV - F101-F145 29F-128 - Outlet transfer conservation 60
29.1Gatewaylife-cycleexample60
29.2Lifecyclefromrequesttofinaloutput61
30F-129 - Re-entry recalculation vector 62 30.1Gatewaylife-cycleexample

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0226"
state R -> R1
node N1
representation JP(PINK-01-P0226)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 226 of 431. PRIVATE PRE-DAY-0 - UNSI



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 227 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper IV - F101-F145 44F-143 - Vector reservoir headroom 90 44.1Gatewaylife-cycleexample90 44.2Lifecyclefromrequesttofinaloutput91 45F-144 - Vector reservoir admission 92 45.1Gatewaylife-cycleexample

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0227"
state R -> R1
node N1
representation JP(PINK-01-P0227)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 227 of 431. PRIVATE PRE-DAY-0 - UNSI
```


Node Placement / Rainbow Path

Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 228 of 431. Chapter 1 Verification method Each formula receives the same twenty-construct Bangel identity, a gateway-stage assignment, a life-cycleexample, andexplicitvidenceandethicsboundaries. Therepetitivestructureisintentional: it allowsformula-by-formulafounderreviewandlaterautomatedcompletenesschecking. 5

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

module MJ.Rainbow.Chapter_1_Verification_metho
reference "PINK-01-P0228"
state R -> R1
node N7
representation JP(PINK-01-P0228)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 228 of 431. Chapter 1 Verification m

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source

MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 229 of 431. Chapter 2 F-101 - Rear outlet elevation Exact expression

$z_{out}=H_P-\delta_z; 0<\delta_z<H_P$ Meaning.

Outlet is below the containment maximum height. Bound

manifestations. SISTER, MK, JO Gateway

stage. Sister/EVE/MK/JO containment or simulation evidence before MJ permit

Construct Formula-specific expression Module

MJ.PBMEF.reservoir.outlet_lake_reentry_friction Namesp...

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_2_F_101_Rear_outlet_
reference "PINK-01-P0229"
state R -> R1
node N1
representation JP(PINK-01-P0229)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 229 of 431. Chapter 2 F-101 - Rear o
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 230 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper IV - F101-F145 2.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules,namespaces,declarations,literals,types,constraints,anddirectives. 3. Elsa: recoversemanticpurpose,variablemeaning,andambiguitywithoutcreatingauthority. 4. JP:createthecanonicalCAPOforF-101anditsassumptions,inputs,outp

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0230"
state R -> R1
node N1
representation JP(PINK-01-P0230)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 230 of 431. PRIVATE PRE-DAY-0 - UNSI
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 231 of 431. Chapter 3 F-102 - Pearl simulation exclusion ra- dius Exact expression $R_P, \text{sim} = R_{\text{top}} + c_P; c_P \geq 0$ Meaning. Nonphysicalreferencecircleplusdeclaredclearance. Bound manifestations.PEARL,MK,JO Gateway stage.Sister/EVE/MK/JOcontainmentorsimulationevidencebeforeMJpermit Construct Formula-specific expression Module MJ.PBMEF.reservoir.outlet_lake_reentry_friction Namesp...

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_3_F_102_Pearl_simula
reference "PINK-01-P0231"
state R -> R1
node N1
representation JP(PINK-01-P0231)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 231 of 431. Chapter 3 F-102 - Pearl
```

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source

MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 232 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper IV - F101-F145 3.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-102anditsassumptions, inputs, outp

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R

reference "PINK-01-P0232"

state R -> R1

node N1

representation JP(PINK-01-P0232)

physics MK(classify, units, boundary, uncertainty)

verify J0(types, evidence, receipts)

if all_required_gates == PASS:

MJ.permit -> R2 -> bounded_output

else:

HOLD | FAIL_TECHNICAL | DENY

Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 232 of 431. PRIVATE PRE-DAY-0 - UNSI

NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source
 MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page
 233 of 431. Chapter 4 F-103 - Outward-tangential outlet direc- tion Exact
 expression $d_{out} = \cos(\alpha_{out})t + \sin(\alpha_{out})n_{out}$; $0 < \alpha_{out} < \pi/2$
 Meaning. Slight positive outward cant from the local tangent. Bound
 manifestations. JP, MK, JO Gateway
 stage. Sister/EVE/MK/JO containment or simulation evidence before MJ permit
 Construct Formula-specific expression Module
 MJ_PBMEF.reservoir.outlet_lake_reentry_friction Namesp...

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_4_F_103_Outward_tang
reference "PINK-01-P0233"
state R -> R1
node N1
representation JP(PINK-01-P0233)
physics MK(classify, units, boundary, uncertainty)
verify JO(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ PBMEF Pink Paper Gateway Expression and Full Lifecycle 001.pdf, page 233 of 431. Chapter 4 F-103 - Outward
```

Node Placement / Rainbow Path



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source
MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 234 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper IV - F101-F145 4.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-103anditsassumptions, inputs, outp

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0234"
state R -> R1
node N1
representation JP(PINK-01-P0234)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 234 of 431. PRIVATE PRE-DAY-0 - UNSI
```

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source

MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 235 of 431. Chapter 5 F-104 - Outside-circle outlet path Exact expression

$$||\gamma(s)-c_P||^2=R_P^2+2R_Ps\sin(\alpha_{out})+s^2$$
 Meaning.

Path remains outside the Pearl simulation circle for $s>0$. Bound

manifestations. PEARL, MK, JO Gateway

stage. Sister/EVE/MK/JO containment or simulation evidence before MJ permit

Construct Formula-specific expression Module

MJ_PBMEF.reservoir.outlet_lake_reentry_friction Namesp...

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_5_F_104_Outside_circ
reference "PINK-01-P0235"
state R -> R1
node N1
representation JP(PINK-01-P0235)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 235 of 431. Chapter 5 F-104 - Outs
```


Node Placement / Rainbow Path



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source
MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 236 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper IV - F101-F145 5.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-104anditsassumptions, inputs, outp

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0236"
state R -> R1
node N1
representation JP(PINK-01-P0236)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 236 of 431. PRIVATE PRE-DAY-0 - UNSI
```

Node Placement / Rainbow Path



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source
MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 237 of 431. Chapter 6 F-105 - Reservoir volume balance Exact expression $dV_L/dt=Q_{out}-Q_{return}-Q_{drain}-Q_{escape}$ Meaning. Connected lake-like buffer control-volume balance. Bound manifestations. SISTER, EVE, MERMAID, JO Gateway stage. Sister/EVE/MK/JO containment or simulation evidence before MJ permit Construct Formula-specific expression Module MJ.PBMEF.reservoir.outlet_lake_reentry_friction Namesp...

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.Chapter_6_F_105_Reservoir_vo
reference "PINK-01-P0237"
state R -> R1
node N1
representation JP(PINK-01-P0237)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 237 of 431. Chapter 6 F-105 - Reserv
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 238 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper IV - F101-F145 6.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-105anditsassumptions, inputs, outp

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0238"
state R -> R1
node N1
representation JP(PINK-01-P0238)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 238 of 431. PRIVATE PRE-DAY-0 - UNSI
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 239 of 431. Chapter 7 F-106 - Typed reservoir quantity bal- ance Exact expression $dq_L/dt=q_{out},k-q_{return},k-q_{drain},k-q_{escape},k$ Meaning. Per-dimensionbalancepreventscross-unitcollapse. Bound manifestations.SISTER,EVE,MERMAID,JO Gateway stage.Sister/EVE/MK/JOcontainmentorsimulationevidencebeforeMJpermit Construct Formula-specific expression Module MJ.PBMEF.reservoir.outlet_lake_reentry_friction Namesp...

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> Mj bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_7_F_106_Typed_reserv
reference "PINK-01-P0239"
state R -> R1
node N1
representation JP(PINK-01-P0239)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 239 of 431. Chapter 7 F-106 - Typed
```

Node Placement / Rainbow Path



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source
MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 240 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper IV - F101-F145 7.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-106anditsassumptions, inputs, outp

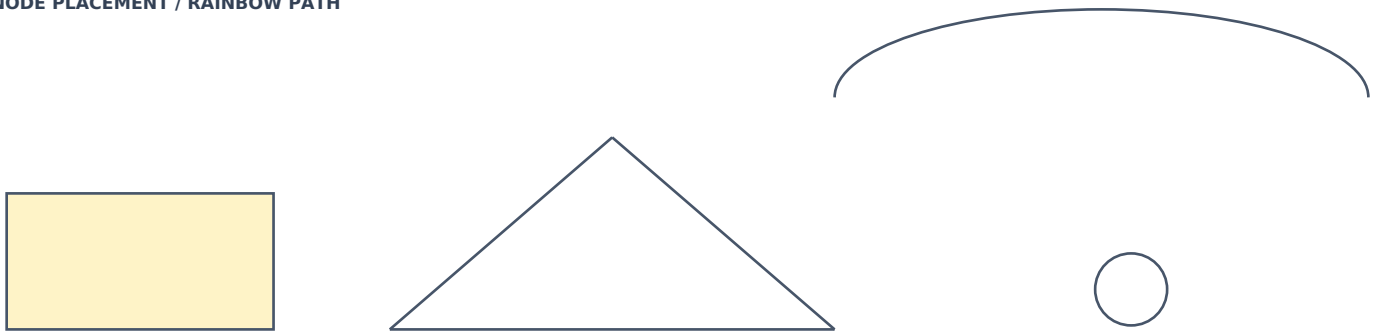
Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0240"
state R -> R1
node N1
representation JP(PINK-01-P0240)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 240 of 431. PRIVATE PRE-DAY-0 - UNSI
```

NODE PLACEMENT / RAINBOW PATH



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source
 MJ.PBMEF.Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page
 241 of 431. Chapter 8 F-107 - Required buffer volume Exact expression
 $V_L, req = T_hold * \max(0, Q_out, H - Q_return, L) + V_residual, H$ Meaning.
 Conservative buffer capacity from inflow-return mismatch and residual. Bound
 manifestations. MK, SISTER, JO Gateway
 stage. Reservoir/lake/re-entry reference pathway and successor-cycle evidence
 Construct Formula-specific expression Module
 MJ.PBMEF.reservoir.outlet_lake_reentry_friction Namespace MJ.PBMEF.reservoir

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_8_F_107_Required_buf
reference "PINK-01-P0241"
state R -> R1
node N1
representation JP(PINK-01-P0241)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 241 of 431. Chapter 8 F-107 - Required
```

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source

MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 242 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper IV - F101-F145 8.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-107anditsassumptions, inputs, outp

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R

reference "PINK-01-P0242"

state R -> R1

node N1

representation JP(PINK-01-P0242)

physics MK(classify, units, boundary, uncertainty)

verify J0(types, evidence, receipts)

if all_required_gates == PASS:

MJ.permit -> R2 -> bounded_output

else:

HOLD | FAIL_TECHNICAL | DENY

Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 242 of 431. PRIVATE PRE-DAY-0 - UNSI

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

Source Rule / Intent

Pink source

MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 243 of 431. Chapter 9 F-108 - Outlet area lower bound Exact expression

A_out>=Q_design/u_out,max Meaning.

Area sizing from conservative design flow and allowable level velocity. Bound manifestations.

MK,JO Gateway stage.

Sister/EVE/MK/JO containment or simulation evidence before MJ permit

Construct Formula-specific expression Module

MJ.PBMEF.reservoir.outlet_lake_reentry_friction Namespace...

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_9_F_108_Outlet_area_
reference "PINK-01-P0243"
state R -> R1
node N1
representation JP(PINK-01-P0243)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 243 of 431. Chapter 9 F-108 - Outlet
```


Node Placement / Rainbow Path



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 244 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper IV - F101-F145 9.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-108anditsassumptions, inputs, outp

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0244"
state R -> R1
node N1
representation JP(PINK-01-P0244)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 244 of 431. PRIVATE PRE-DAY-0 - UNSI
```

NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source
MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 245 of 431. Chapter 10 F-109 - Circular outlet radius lower bound Exact expression $r_{out} \geq \sqrt{A_{out}/\pi}$ Meaning. Circularoutletradiusderivedfromrequiredarea. Bound manifestations.MK,JO Gateway stage.Sister/EVE/MK/JOcontainmentorsimulationevidencebeforeMJpermit Construct Formula-specific expression Module MJ.PBMEF.reservoir.outlet_lake_reentry_friction Namesp...

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_10_F_109_Circular_ou
reference "PINK-01-P0245"
state R -> R1
node N1
representation JP(PINK-01-P0245)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 245 of 431. Chapter 10 F-109 - Circu
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 246 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper IV - F101-F145 10.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-109anditsassumptions, inputs, out

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0246"
state R -> R1
node N1
representation JP(PINK-01-P0246)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 246 of 431. PRIVATE PRE-DAY-0 - UNSI
```

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

Source Rule / Intent

Pink source

MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 247 of 431. Chapter 11 F-110 - Bounded drip impulse Exact expression

$J_{drop} = m_{drop} * v_{drop} \leq J_{drop,max}$ Meaning.

Small-discharge reference objective; threshold requires evidence. Bound

manifestations.MK,ANGELS,JO Gateway

stage.Reservoir/lake/re-entry reference pathway and successor-cycle evidence

Construct Formula-specific expression Module

MJ.PBMEF.reservoir.outlet_lake_reentry_friction Namesp...

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_11_F_110_Bounded_dri
reference "PINK-01-P0247"
state R -> R1
node N1
representation JP(PINK-01-P0247)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 247 of 431. Chapter 11 F-110 - Bound
```

Node Placement / Rainbow Path



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 248 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper IV - F101-F145 11.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-110anditsassumptions, inputs, out

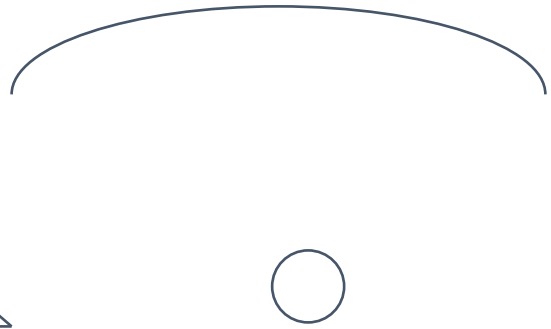
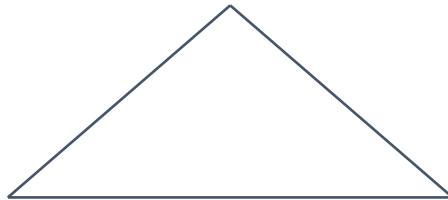
Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0248"
state R -> R1
node N1
representation JP(PINK-01-P0248)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 248 of 431. PRIVATE PRE-DAY-0 - UNSI
```

NODE PLACEMENT / RAINBOW PATH



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source
 MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page
 249 of 431. Chapter 12 F-111 - Small-wave energy reference Exact expression
 $E_{\text{wave}} \sim 0.5 \rho h g^* a_{\text{wave}}^2 A_{\text{surface}}$ Meaning.
 Applies only under small-amplitude liquid-surface assumptions. Bound
 manifestations. MK, JO, EVE Gateway
 stage. Sister/EVE/MK/JO containment or simulation evidence before MJ permit
 Construct Formula-specific expression Module
 MJ_PBMEF.reservoir.outlet_lake_reentry_friction Namesp...

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_12_F_111_Small_wave_
reference "PINK-01-P0249"
state R -> R1
node N1
representation JP(PINK-01-P0249)
physics MK(classify, units, boundary, uncertainty)
verify JO(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 249 of 431. Chapter 12 F-111 - Small
```

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source

MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 250 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper IV - F101-F145 12.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-111anditsassumptions, inputs, out

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R

reference "PINK-01-P0250"

state R -> R1

node N1

representation JP(PINK-01-P0250)

physics MK(classify, units, boundary, uncertainty)

verify J0(types, evidence, receipts)

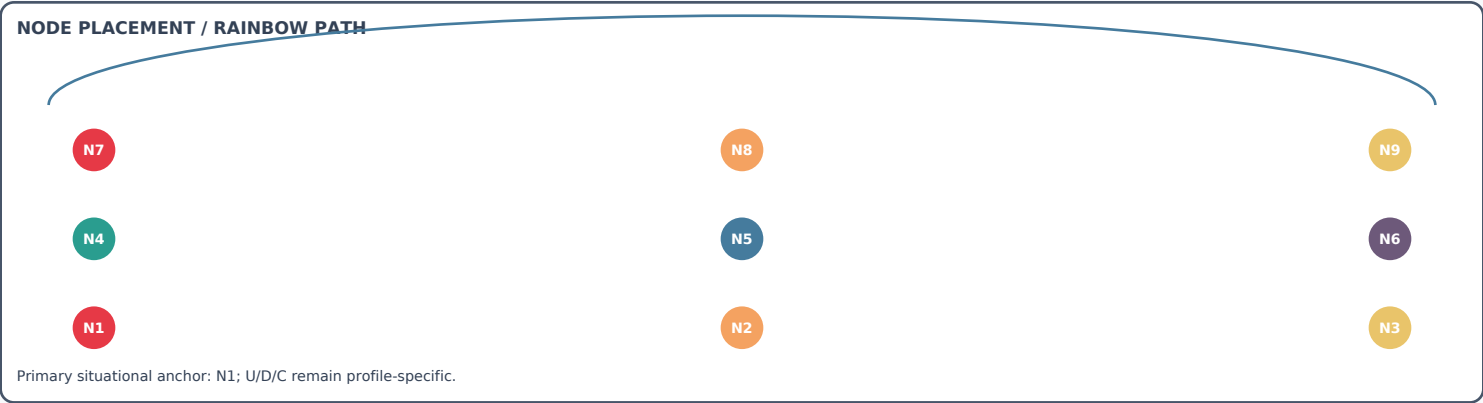
if all_required_gates == PASS:

MJ.permit -> R2 -> bounded_output

else:

HOLD | FAIL_TECHNICAL | DENY

Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 250 of 431. PRIVATE PRE-DAY-0 - UNSI



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 251 of 431. Chapter 13 F-112 - Froude reference Exact expression $Fr=U/\sqrt{gL}$ Meaning. Flow-regimereference; $Fr<1$ isaconditionalsubcriticaltarget. Bound manifestations.MK,JO Gateway stage.Reservoir/lake/re-entryreferencepathwayandsuccessor-cycleevidence Construct Formula-specific expression Module MJ.PBMEF.reservoir.outlet_lake_reentry_friction Namesp...

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_13_F_112_Froude_refe
reference "PINK-01-P0251"
state R -> R1
node N1
representation JP(PINK-01-P0251)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 251 of 431. Chapter 13 F-112 - Froud
```




R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 252 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper IV - F101-F145 13.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-112anditsassumptions, inputs, out

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0252"
state R -> R1
node N1
representation JP(PINK-01-P0252)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 252 of 431. PRIVATE PRE-DAY-0 - UNSI
```

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source

MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 253 of 431. Chapter 14 F-113 - Circular return-port area Exact expression

$A_{in} = \pi \cdot r_{in}^2$ Meaning. Circular re-entry cross-section. Bound manifestations. MK, JO Gateway

stage. Reservoir/lake/re-entry reference pathway and successor-cycle evidence

Construct Formula-specific expression Module

MJ.PBMEF.reservoir.outlet_lake_reentry_friction Namespace

MJ.PBMEF.reservoir.outlet_lake_reentry_friction.F_113 Imp...

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_14_F_113_Circular_re
reference "PINK-01-P0253"
state R -> R1
node N1
representation JP(PINK-01-P0253)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 253 of 431. Chapter 14 F-113 - Circu
```

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source

MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 254 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper IV - F101-F145 14.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-113anditsassumptions, inputs, out

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R

reference "PINK-01-P0254"

state R -> R1

node N1

representation JP(PINK-01-P0254)

physics MK(classify, units, boundary, uncertainty)

verify J0(types, evidence, receipts)

if all_required_gates == PASS:

MJ.permit -> R2 -> bounded_output

else:

HOLD | FAIL_TECHNICAL | DENY

Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 254 of 431. PRIVATE PRE-DAY-0 - UNSI

Node Placement / Rainbow Path

Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

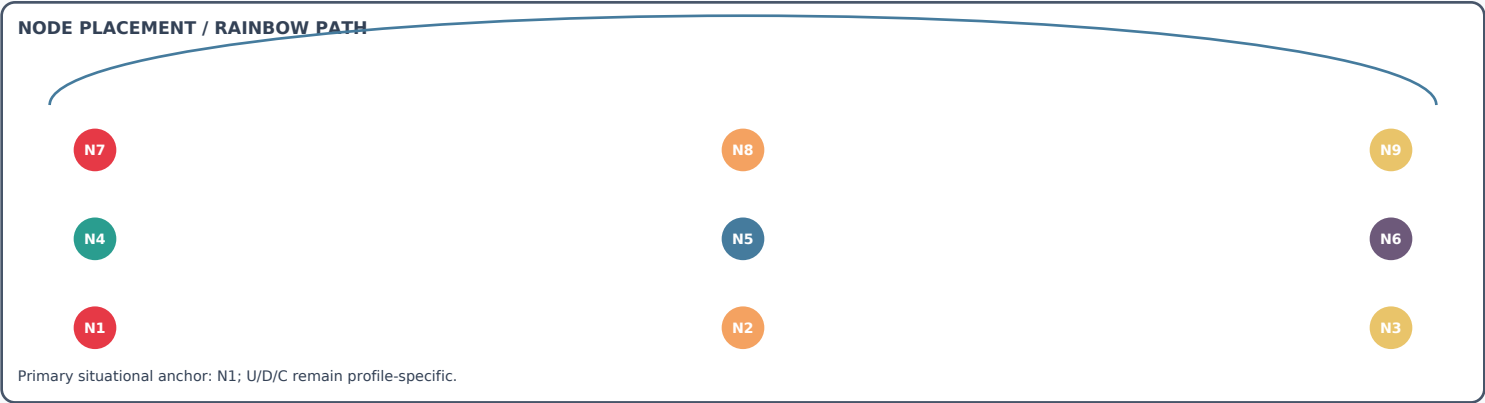
Pink source
MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 255 of 431. Chapter 15 F-114 - Inward-tangential reentry com- ponents Exact
expression $u_r = -U \sin(\beta_{in})$; $u_{\theta} = \sigma U \cos(\beta_{in})$ Meaning. σ Small inward angle plus tangential component; no vortex proof. Bound manifestations. SISTER, MK, JO Gateway stage. SISTER/EVE/MK/JO containment or simulation evidence before MJ permit
Construct Formula-specific expression Module
MJ.PBMEF.reservoir.outlet_lake_reentry_friction Namespace MJ.PBMEF.reservoir

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

module MJ.Rainbow.Chapter_15_F_114_Inward_tang
reference "PINK-01-P0255"
state R -> R1
node N1
representation JP(PINK-01-P0255)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 255 of 431. Chapter 15 F-114 - Inwar



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 256 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper IV - F101-F145 15.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-114anditsassumptions, inputs, out

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0256"
state R -> R1
node N1
representation JP(PINK-01-P0256)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 256 of 431. PRIVATE PRE-DAY-0 - UNSI
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 257 of 431. Chapter 16 F-115 - Spiral compatibility ratio Exact expression $\chi_{\text{spiral}} = u_{\text{theta}} / \max(u_r , \epsilon)$ Meaning. Referenceratiofortangential-dominantreentry. Bound manifestations.MK,JO Gateway stage.Reservoir/lake/re-entryreferencepathwayandsuccessor-cycleevidence Construct Formula-specific expression Module MJ.PBMEF.reservoir.outlet_lake_reentry_friction Namesp...

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_16_F_115_Spiral_comp
reference "PINK-01-P0257"
state R -> R1
node N1
representation JP(PINK-01-P0257)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 257 of 431. Chapter 16 F-115 - Spira
```

Node Placement / Rainbow Path



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source
MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 258 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper IV - F101-F145 16.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-115anditsassumptions, inputs, out

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0258"
state R -> R1
node N1
representation JP(PINK-01-P0258)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 258 of 431. PRIVATE PRE-DAY-0 - UNSI
```

Node Placement / Rainbow Path

R

R1

N1

U

D

C

OUT

Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 259 of 431. Chapter 17 F-116 - Return continuity Exact expression Q_return=A_in*u_n Meaning. Re-entryflowthroughthecircularport. Bound manifestations.MK,JO,SISTER Gateway stage.Reservoir/lake/re-entryreferencepathwayandsuccessor-cycleevidence Construct Formula-specific expression Module MJ.PBMEF.reservoir.outlet_lake_reentry_friction Namespace MJ.PBMEF.reservoir.outlet_lake_reentry_friction.F_116 Imp...

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

module MJ.Rainbow.Chapter_17_F_116_Return_cont
reference "PINK-01-P0259"
state R -> R1
node N1
representation JP(PINK-01-P0259)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 259 of 431. Chapter 17 F-116 - Retur

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source

MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 260 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper IV - F101-F145 17.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-116anditsassumptions, inputs, out

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R

reference "PINK-01-P0260"

state R -> R1

node N1

representation JP(PINK-01-P0260)

physics MK(classify, units, boundary, uncertainty)

verify J0(types, evidence, receipts)

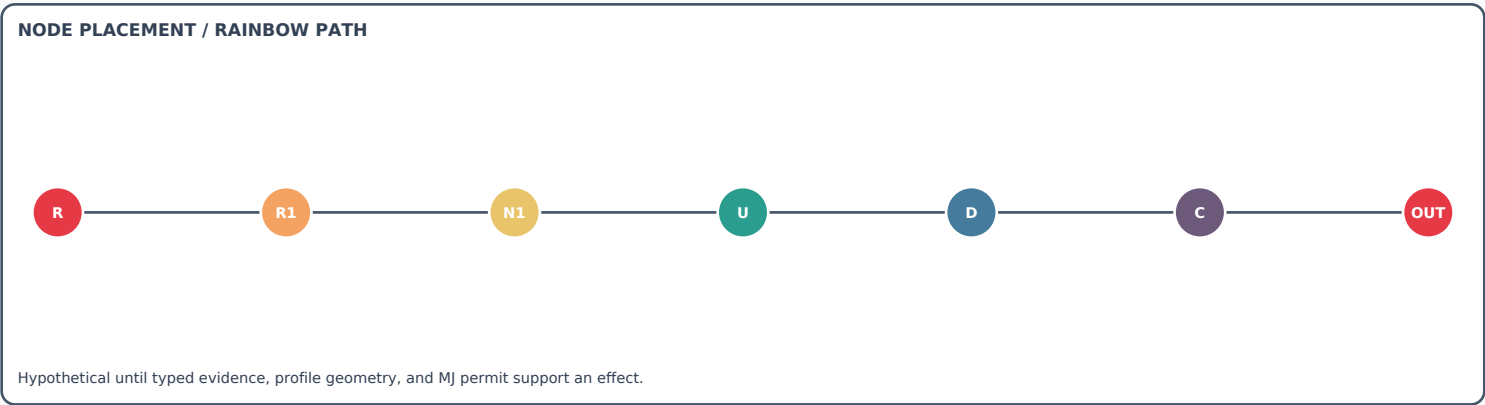
if all_required_gates == PASS:

MJ.permit -> R2 -> bounded_output

else:

HOLD | FAIL_TECHNICAL | DENY

Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 260 of 431. PRIVATE PRE-DAY-0 - UNSI



R Status / Observation	Source Rule / Intent
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 261 of 431. Chapter 18 F-117 - Relative-frame velocity Exact expression $v_{rel}=v_B-v_A-\Omega_A \times r$ Meaning. Coordinate-frame-relativemotion;perspectivedoesnotcreateenergy. Bound manifestations.MK,JO Gateway stage.N1prediction-firstallocation,M3routing,andG123reconciliation Construct Formula-specific expression Module MJ.PBMEF.reservoir.outlet_lake_reentry_friction Namesp...

Path of Expression
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.Chapter_18_F_117_Relative_fr
reference "PINK-01-P0261"
state R -> R1
node N1
representation JP(PINK-01-P0261)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 261 of 431. Chapter 18 F-117 - Relat
```

NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source
MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 262 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper IV - F101-F145 18.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-117anditsassumptions, inputs, out

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0262"
state R -> R1
node N1
representation JP(PINK-01-P0262)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 262 of 431. PRIVATE PRE-DAY-0 - UNSI
```

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

Source Rule / Intent

Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 263 of 431. Chapter 19 F-118 - Frictional dissipation Exact expression $P_{diss} = \max(0, -F_f \cdot v_{rel})$ Meaning. Measured frame-relative frictional dissipation. Bound manifestations. MK, JO, MERMAID Gateway stage. Reservoir/lake/re-entry reference pathway and successor-cycle evidence Construct Formula-specific expression Module MJ.PBMEF.reservoir.outlet_lake_reentry_friction Namesp...

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_19_F_118_Frictional_
reference "PINK-01-P0263"
state R -> R1
node N1
representation JP(PINK-01-P0263)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 263 of 431. Chapter 19 F-118 - Frict
```

Node Placement / Rainbow Path

R

R1

N1

U

D

C

OUT

Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source

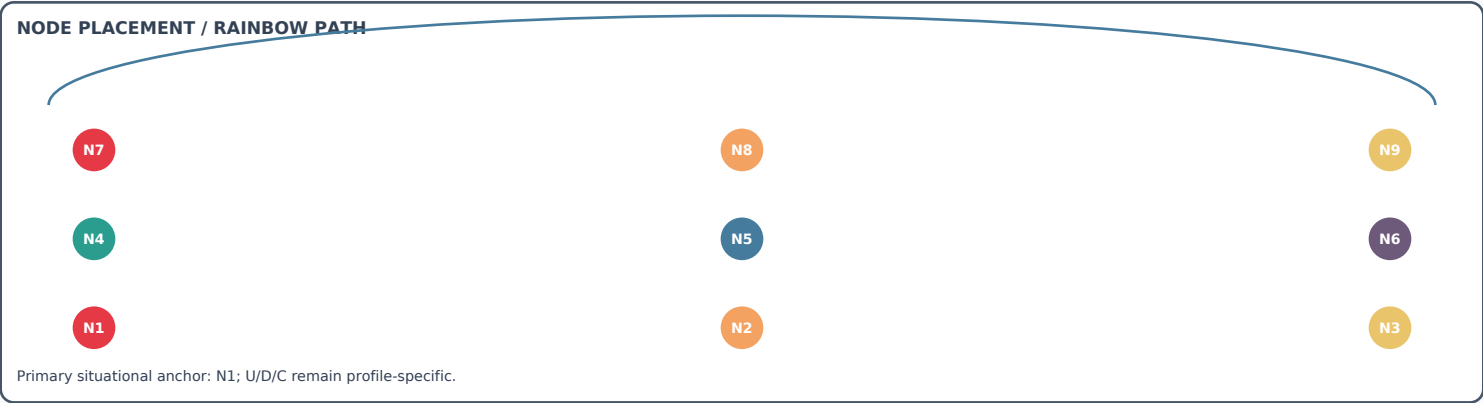
MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 264 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper IV - F101-F145 19.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-118anditsassumptions, inputs, out

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0264"
state R -> R1
node N1
representation JP(PINK-01-P0264)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 264 of 431. PRIVATE PRE-DAY-0 - UNSI
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 265 of 431. Chapter 20 F-119 - Recoverable friction-energy bound Exact expression $E_{rec} \leq \eta_{rec} \cdot \int (P_{diss} dt)$; $0 \leq \eta_{rec} \leq 1$ Meaning. Nophysical recovery without an evidenced conversion mechanism. Bound manifestations. MK, JO, MERMAID, SHIVA Gateway stage. Reservoir/lake/re-entry reference pathway and successor-cycle evidence Construct Formula-specific expression Module MJ.PBMEF.reservoir.outlet_lake_reentry_friction Namespace MJ.PBMEF.r

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> Mj bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_20_F_119_Recoverable
reference "PINK-01-P0265"
state R -> R1
node N1
representation JP(PINK-01-P0265)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 265 of 431. Chapter 20 F-119 - Recov
```

Node Placement / Rainbow Path

Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source

MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 266 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper IV - F101-F145 20.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-119anditsassumptions, inputs, out

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0266"
state R -> R1
node N1
representation JP(PINK-01-P0266)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 266 of 431. PRIVATE PRE-DAY-0 - UNSI
```

Node Placement / Rainbow Path



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source
MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 267 of 431. Chapter 21 F-120 - Reservoir transaction gate Exact expression
Admit=AngelPass&M3Lease&MKPass&JOPass&MermaidReconciled&MJPermit
Meaning.
Everyreservoirtransferrequiressafety,routing,physics,proof,reconciliation,andpermit.
Bound manifestations.ANGELS,M3,MK,JO,MERMAID,MJ Gateway
stage.Sister/EVE/MK/JOcontainmentorsimulationevidencebeforeMJpermit
Construct Formula-specific expression Module MJ.PBMEF.reservoir.outlet_lak

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.Chapter_21_F_120_Reservoir_t
reference "PINK-01-P0267"
state R -> R1
node N1
representation JP(PINK-01-P0267)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 267 of 431. Chapter 21 F-120 - Reser
```



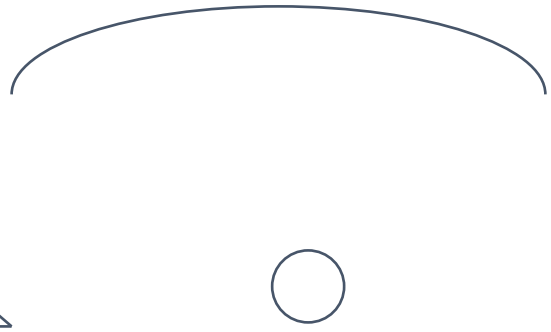
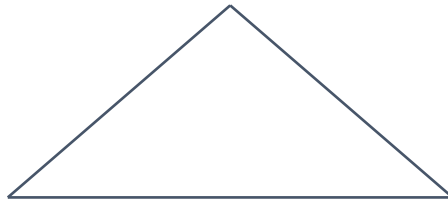

R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 268 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper IV - F101-F145 21.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-120anditsassumptions, inputs, out

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0268"
state R -> R1
node N1
representation JP(PINK-01-P0268)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 268 of 431. PRIVATE PRE-DAY-0 - UNSI
```

NODE PLACEMENT / RAINBOW PATH



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source
 MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page
 269 of 431. Chapter 22 F-121 - Re-entry swirl ratio Exact expression
 $\chi_i = |u_{\theta}| / \max(|u_r|, \epsilon_u)$ Meaning:
 Represents tangential-to-inward re-entry velocity. Bound manifestations. MK, JO
 Gateway
 stage. Reservoir/lake/re-entry reference pathway and successor-cycle evidence
 Construct Formula-specific expression Module
 MJ_PBMEF.reservoir.outlet_lake_reentry_friction Namesp...

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_22_F121_Re_entry_sw
reference "PINK-01-P0269"
state R -> R1
node N1
representation JP(PINK-01-P0269)
physics MK(classify, units, boundary, uncertainty)
verify JO(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 269 of 431. Chapter 22 F-121 - Re-en
```

Node Placement / Rainbow Path



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

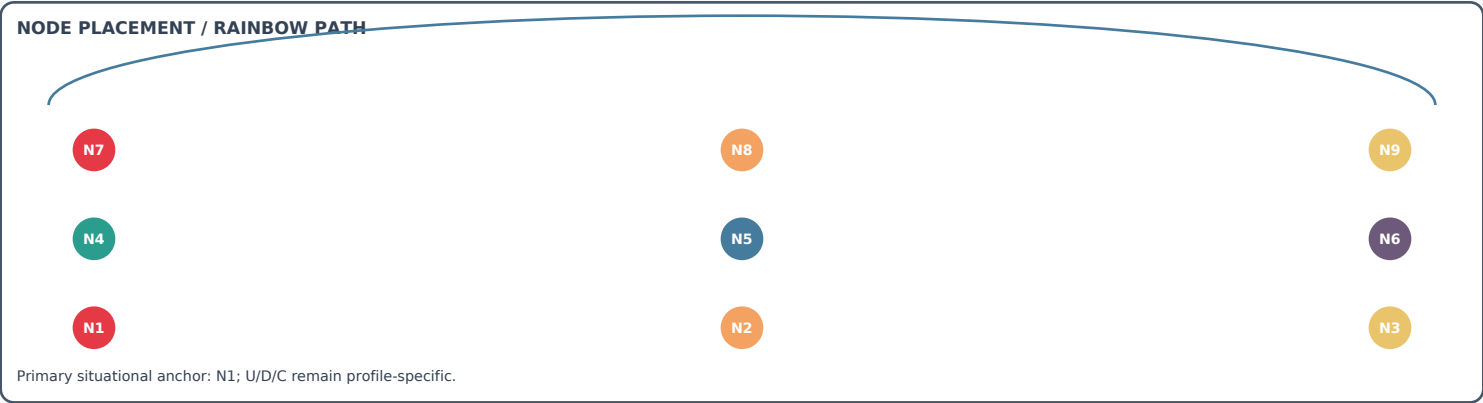
Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 270 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper IV - F101-F145 22.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-121anditsassumptions, inputs, out

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0270"
state R -> R1
node N1
representation JP(PINK-01-P0270)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 270 of 431. PRIVATE PRE-DAY-0 - UNSI
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 271 of 431. Chapter 23 F-122 - Re-entry processing cycle Exact expression cycle_reentry=cycle_exit+1 Meaning. Prohibitssame-cyclefeedbackandcreatesanewreceiptchain. Bound manifestations.JO,M3,SISTER Gateway stage.Reservoir/lake/re-entryreferencepathwayandsuccessor-cycleevidence Construct Formula-specific expression Module MJ.PBMEF.reservoir.outlet_lake_reentry_friction Namesp...

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_23_F_122_Re_entry_pr
reference "PINK-01-P0271"
state R -> R1
node N1
representation JP(PINK-01-P0271)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 271 of 431. Chapter 23 F-122 - Re-en
```

Node Placement / Rainbow Path



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source
MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 272 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper IV - F101-F145 23.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-122anditsassumptions, inputs, out

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0272"
state R -> R1
node N1
representation JP(PINK-01-P0272)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 272 of 431. PRIVATE PRE-DAY-0 - UNSI
```

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

Source Rule / Intent

Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 273 of 431. Chapter 24 F-123 - Perspective transform residual Exact expression $r_{Pi=x_{B-T}_A \text{ to } B*x_A}$ Meaning. Measuresdisagreementaftertransformingobservationsbetweenreferenceframes. Bound manifestations.MK,JO,EVE,MERMAID Gateway stage.Reservoir/lake/re-entryreferencepathwayandsuccessor-cycleevidence Construct Formula-specific expression Module MJ.PBMEF.reservoir.outlet_lake_reentry_friction Namesp...

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_24_F_123_Perspective
reference "PINK-01-P0273"
state R -> R1
node N1
representation JP(PINK-01-P0273)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 273 of 431. Chapter 24 F-123 - Persp
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 274 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper IV - F101-F145 24.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-123anditsassumptions, inputs, out

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0274"
state R -> R1
node N1
representation JP(PINK-01-P0274)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 274 of 431. PRIVATE PRE-DAY-0 - UNSI
```

Node Placement / Rainbow Path

R

R1

N1

U

D

C

OUT

Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source

MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 275 of 431. Chapter 25 F-124 - Physical pressure-flow dissipation Exact expression $E_{diss} = \int (\Delta p(t) \cdot Q(t) dt)$ Meaning. Stores measured physical dissipation only when pressure and flow are evidenced. Bound manifestations. MK, JO, MERMAID Gateway stage. Reservoir/lake/re-entry reference pathway and successor-cycle evidence Construct Formula-specific expression Module MJ.PBMEF.reservoir.outlet_lake_reentry_friction Namesp...

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.Chapter_25_F_124_Physical_pr
reference "PINK-01-P0275"
state R -> R1
node N1
representation JP(PINK-01-P0275)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 275 of 431. Chapter 25 F-124 - Physi
```




R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 276 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper IV - F101-F145 25.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-124anditsassumptions, inputs, out

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0276"
state R -> R1
node N1
representation JP(PINK-01-P0276)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 276 of 431. PRIVATE PRE-DAY-0 - UNSI
```

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source

MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 277 of 431. Chapter 26 F-125 - Information friction Exact expression

C_info=int(B_residual(t)dt) Meaning.

Storesunresolvedinformationormemorycostwithouttreatingitasenergy. Bound manifestations.JO,M3,MERMAID Gateway

stage.Reservoir/lake/re-entryreferencepathwayandsuccessor-cycleevidence

Construct Formula-specific expression Module

MJ.PBMEF.reservoir.outlet_lake_reentry_friction Namesp...

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

module MJ.Rainbow.Chapter_26_F_125_Information

reference "PINK-01-P0277"

state R -> R1

node N1

representation JP(PINK-01-P0277)

physics MK(classify, units, boundary, uncertainty)

verify J0(types, evidence, receipts)

if all_required_gates == PASS:

MJ.permit -> R2 -> bounded_output

else:

HOLD | FAIL_TECHNICAL | DENY

Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 277 of 431. Chapter 26 F-125 - Infor

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source

MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 278 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper IV - F101-F145 26.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-125anditsassumptions, inputs, out

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R

reference "PINK-01-P0278"

state R -> R1

node N1

representation JP(PINK-01-P0278)

physics MK(classify, units, boundary, uncertainty)

verify J0(types, evidence, receipts)

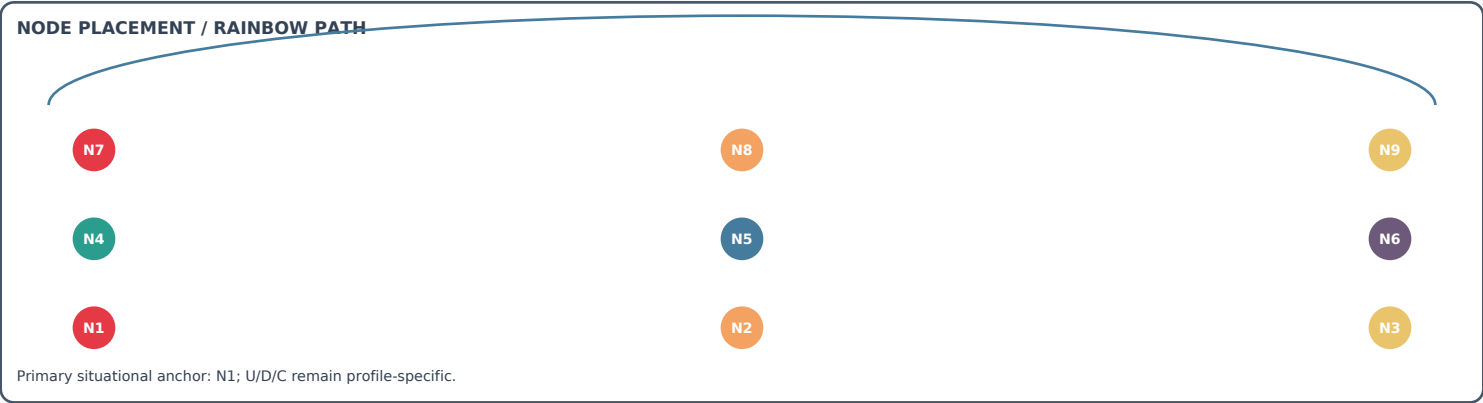
if all_required_gates == PASS:

MJ.permit -> R2 -> bounded_output

else:

HOLD | FAIL_TECHNICAL | DENY

Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 278 of 431. PRIVATE PRE-DAY-0 - UNSI



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 279 of 431. Chapter 27 F-126 - Rotational setpoint damping Exact expression $\omega_{\tilde{}}=(2/3)*\omega+(1/3)*\omega_{\star}$ Meaning. Dampsthe desired rotational-wave setpoint. Bound manifestations.MK,JO,SISTER Gateway stage.Reservoir/lake/re-entryreference pathway and successor-cycle evidence Construct Formula-specific expression Module MJ.PBMEF.reservoir.outlet_lake_reentry_friction Namesp...

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_27_F_126_Rotational_  
reference "PINK-01-P0279"  
state R -> R1  
node N1  
representation JP(PINK-01-P0279)  
physics MK(classify, units, boundary, uncertainty)  
verify J0(types, evidence, receipts)  
if all_required_gates == PASS:  
MJ.permit -> R2 -> bounded_output  
else:  
HOLD | FAIL_TECHNICAL | DENY  
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 279 of 431. Chapter 27 F-126 - Rotat
```

Node Placement / Rainbow Path



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

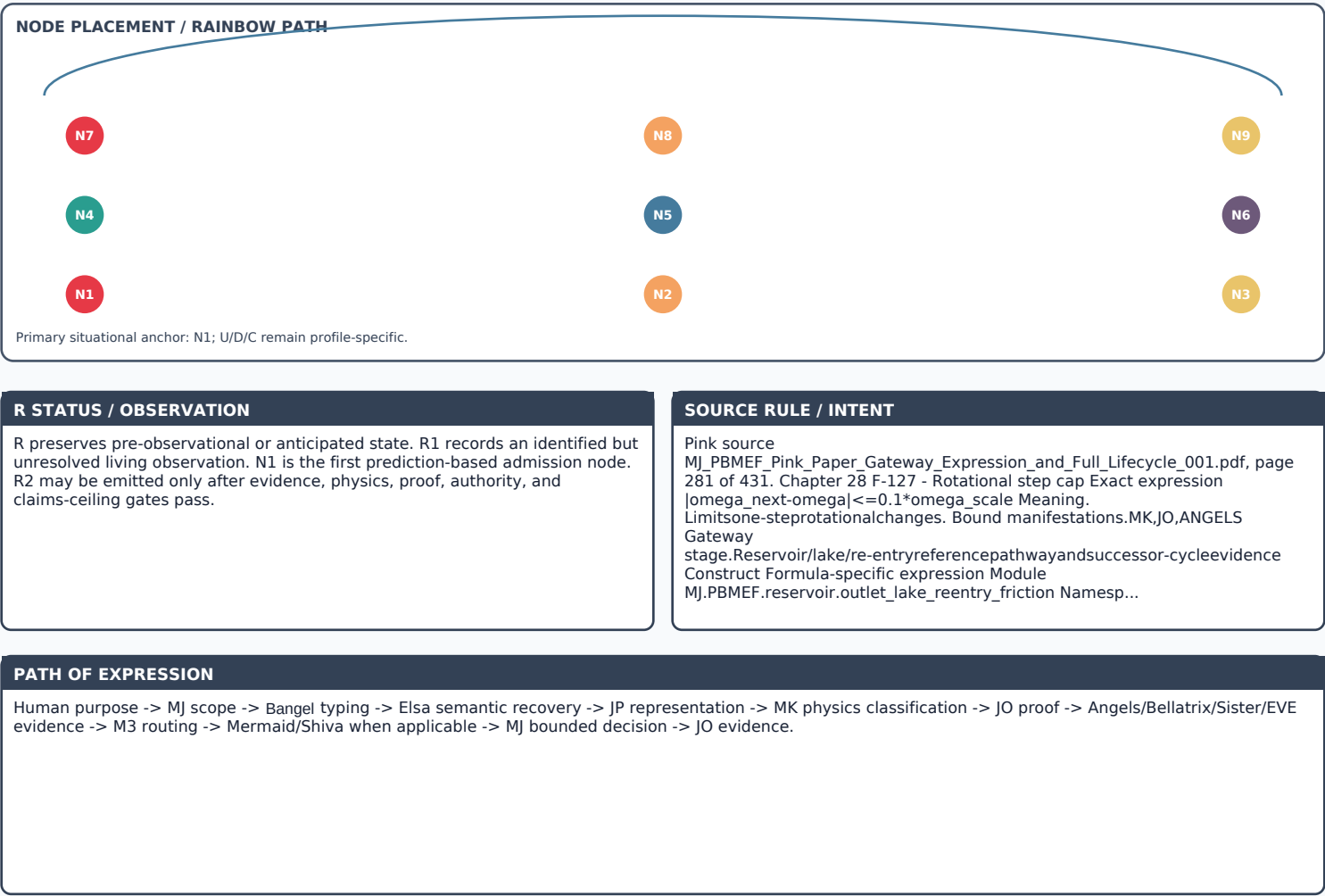
Pink source
MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 280 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper IV - F101-F145 27.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-126anditsassumptions, inputs, out

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0280"
state R -> R1
node N1
representation JP(PINK-01-P0280)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 280 of 431. PRIVATE PRE-DAY-0 - UNSI
```



CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_28_F_127_Rotational_
reference "PINK-01-P0281"
state R -> R1
node N1
representation JP(PINK-01-P0281)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 281 of 431. Chapter 28 F-127 - Rotat
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 282 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper IV - F101-F145 28.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-127anditsassumptions, inputs, out

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0282"
state R -> R1
node N1
representation JP(PINK-01-P0282)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 282 of 431. PRIVATE PRE-DAY-0 - UNSI
```

NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source
MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 283 of 431. Chapter 29 F-128 - Outlet transfer conservation Exact expression $q_{exit}=q_{lake_in}+q_{EVE}+q_{escape}+r_o$ Meaning. Separateslakeadmission,EVEobservation,escape,andresidual. Bound manifestations.EVE,SISTER,MERMAID,JO Gateway stage.Sister/EVE/MK/JOcontainmentorsimulationevidencebeforeMJpermit Construct Formula-specific expression Module MJ.PBMEF.reservoir.outlet_lake_reentry_friction Namesp...

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_29_F_128_Outlet_tran
reference "PINK-01-P0283"
state R -> R1
node N1
representation JP(PINK-01-P0283)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 283 of 431. Chapter 29 F-128 - Outle
```




R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 284 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper IV - F101-F145 29.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-128anditsassumptions, inputs, out

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0284"
state R -> R1
node N1
representation JP(PINK-01-P0284)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 284 of 431. PRIVATE PRE-DAY-0 - UNSI
```

Node Placement / Rainbow Path



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

P preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source
MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 285 of 431. Chapter 30 F-129 - Re-entry recalculation vector Exact expression
 $\Delta_x = [\Delta_m, \Delta_W, \Delta_V, \Delta_\rho, \Delta_T, \Delta_p, \Delta_h]$
Meaning. Declarestheobservedchangesthattriggerrecalculationbeforere-entry.
Bound manifestations.MK,JO,EVE,SISTER Gateway
stage.Reservoir/lake/re-entryreferencepathwayandsuccessor-cycleevidence
Construct Formula-specific expression Module
MJ.PBMEF.reservoir.outlet_lake_reentry_friction

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

module MJ.Rainbow.Chapter_30_F_129_Re_entry_re
reference "PINK-01-P0285"
state R -> R1
node N1
representation JP(PINK-01-P0285)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 285 of 431. Chapter 30 F-129 - Re-en

DE PLACEMENT / RAINBOW PATH

N7	N8	N9
N4	N5	N6
N1	N2	N3

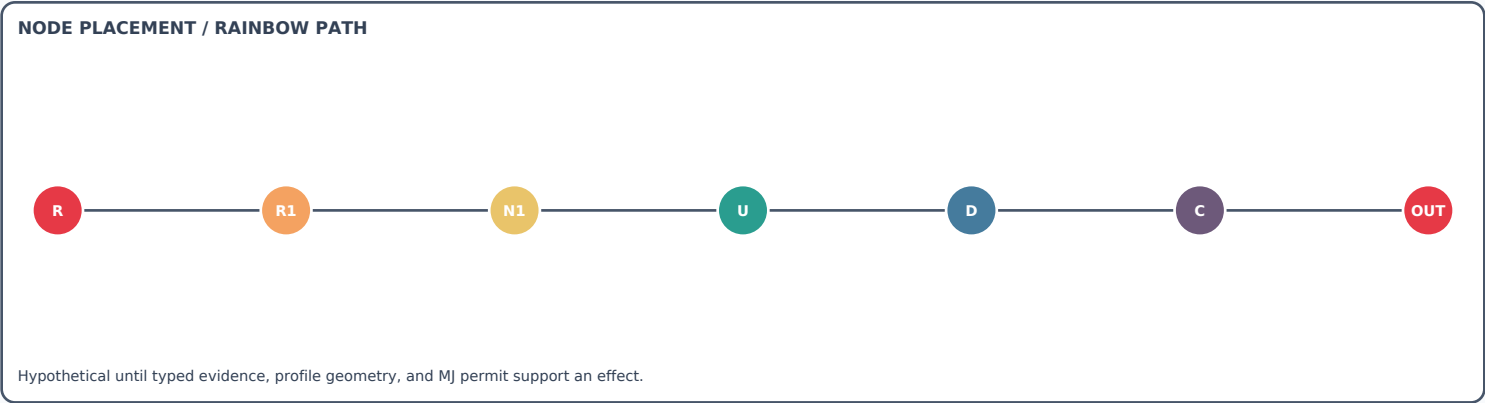
R STATUS / OBSERVATION

R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Pink source
 MJ_PBMF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page
 286 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper IV
 - F101-F145 30.2 Lifecycle from request to final output 1. R/R0:
 receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin:
 parsemodules, namespaces, declarations, literals, types, constraints, and directives.
 3. Elsa:
 recoversemanticpurpose, variable meaning, and ambiguity without creating authority.
 4. JP: create the canonical CAPO for F-129 and its assumptions, inputs, out

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0286"
state R -> R1
node N1
representation JP(PINK-01-P0286)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ PBMEF Pink Paper Gateway Expression and Full Lifecycle 001.pdf, page 286 of 431. PRIVATE PRE-DAY-0 - UNSI
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 287 of 431. Chapter 31 F-130 - Re-entry admissibility predicate Exact expression Admit_re=types&units&new_cycle&capacity&wave&MK&JO&Angels&M3&MJ Meaning. Requirescompletephysics,evidence,safety,routing,andauthoritybeforephysicalre-entry. Bound manifestations.Bangel JP,MK,JO,ANGELS,M3,MJ Gateway stage.Reservoir/lake/re-entryreferencepathwayandsuccessor-cyclevide...

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_31_F_130_Re_entry_ad
reference "PINK-01-P0287"
state R -> R1
node N1
representation JP(PINK-01-P0287)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 287 of 431. Chapter 31 F-130 - Re-en
```

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source

MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 288 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper IV - F101-F145 31.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-130anditsassumptions, inputs, out

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R

reference "PINK-01-P0288"

state R -> R1

node N1

representation JP(PINK-01-P0288)

physics MK(classify, units, boundary, uncertainty)

verify J0(types, evidence, receipts)

if all_required_gates == PASS:

MJ.permit -> R2 -> bounded_output

else:

HOLD | FAIL_TECHNICAL | DENY

Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 288 of 431. PRIVATE PRE-DAY-0 - UNSI



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 289 of 431. Chapter 32 F-131 - Uncertainty-aware Pearl refer- ence clearance Exact expression $\min_s(\gamma_{out}(s)-c_P -R_P, \text{sim}) \geq c_{min}+U_{path}$ Meaning. PathremainsoutsidethenonphysicalPearlsimulationreferencecircleafteruncertaintyis included. Bound manifestations.PEARL,MK,JO Gateway stage.Sister/EVE/MK/JOcontainmentorsimulationevidencebeforeMJpermit Construct Formula-specific expression Module MJ.PBMEF.reservoir.outlet_lake_r

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_32_F_131_Uncertainty
reference "PINK-01-P0289"
state R -> R1
node N1
representation JP(PINK-01-P0289)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 289 of 431. Chapter 32 F-131 - Uncer
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 290 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper IV - F101-F145 } 32.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-131anditsassumptions, inputs, o

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0290"
state R -> R1
node N1
representation JP(PINK-01-P0290)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 290 of 431. PRIVATE PRE-DAY-0 - UNSI
```

NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

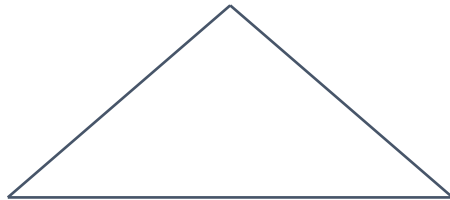
Pink source
 MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page
 291 of 431. Chapter 33 F-132 - Outward angular-gap predicate Exact
 expression $\text{abs}(\text{wrap}(\alpha_{\text{out}} - \alpha_{\text{gap}})) \leq \Delta \alpha_{\text{gap}} / 2$ Meaning.
 Outletdirectionremainswithinthedeclaredoutward-facinggap. Bound
 manifestations.JP,MK,JO Gateway
 stage.Reservoir/lake/re-entryreferencepathwayandsuccessor-cycleevidence
 Construct Formula-specific expression Module
 MJ_PBMEF.reservoir.outlet_lake_reentry_friction Namesp...

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_33_F_132_Outward_ang
reference "PINK-01-P0291"
state R -> R1
node N1
representation JP(PINK-01-P0291)
physics MK(classify, units, boundary, uncertainty)
verify JO(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 291 of 431. Chapter 33 F-132 - Outwa
```

SOURCE RULE / INTENT

Pink source
 MJ_PBMF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page
 292 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper IV
 - F101-F145 33.2 Lifecycle from request to final output 1. R/R0:
 parsefounderoruserpurposeandexactcommandscope. 2. Bangel.begin:
 parsemodules,namespaces,declarations,literals,types,constraints,anddirectives.
 3. Elsa:
 recoversemanticpurpose,variablemeaning,andambiguitywithoutcreatingauthority.
 4. JP:create the canonical CAPO for F-132 and its assumptions, inputs, out

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSigned_R
reference "PINK-01-P0292"
state R -> R1
node N1
representation JP(PINK-01-P0292)
physics MK(classify, units, boundary, uncertainty)
verify JO(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ PBMEF Pink Paper Gateway Expression and Full Lifecycle 001.pdf, page 292 of 431. PRIVATE PRE-DAY-0 - UNSI
```

Node Placement / Rainbow Path



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source

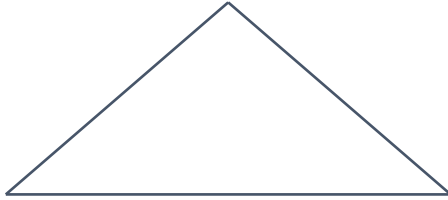
MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 293 of 431. Chapter 34 F-133 - Available outlet pressure Exact expression $\Delta p_{available} = p_{containment} - p_{lake} + \rho \cdot g \cdot (z_{out} - z_{lake})$ Meaning. Pressure and elevation state available to drive a reference outlet flow. Bound manifestations. MK, JO, SISTER Gateway stage. Sister/EVE/MK/JO containment or simulation evidence before MJ permit Construct Formula-specific expression Module MJ.PBMEF.reservoir.outlet_lake_reentry_friction Namespace MJ.PBMEF.rese

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.Chapter_34_F_133_Available_o
reference "PINK-01-P0293"
state R -> R1
node N1
representation JP(PINK-01-P0293)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 293 of 431. Chapter 34 F-133 - Avail
```

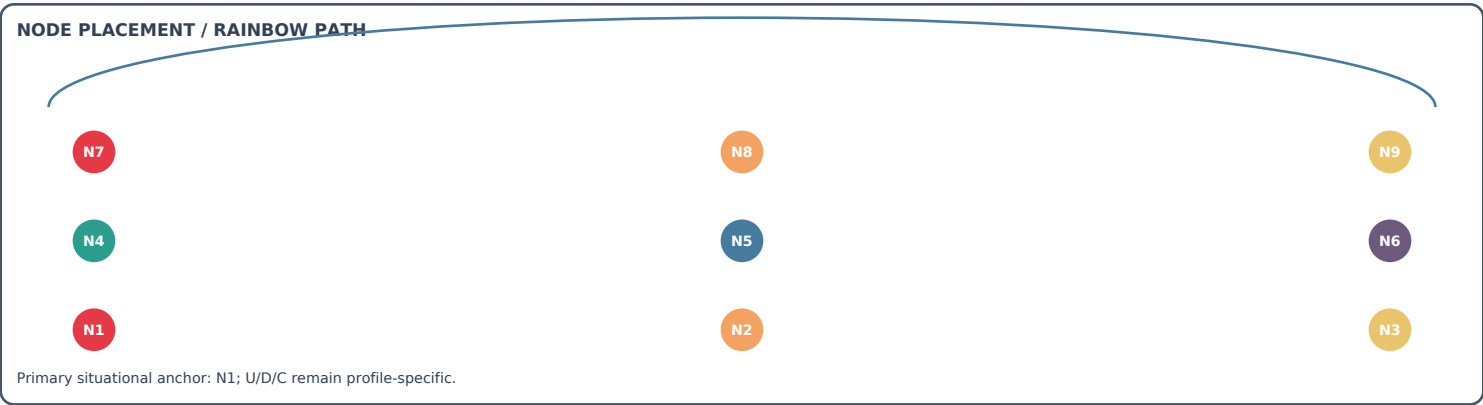


SOURCE RULE / INTENT

Pink source
 MJ_PBMF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page
 294 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper IV
 - F101-F145 34.2 Lifecycle from request to final output 1. R/R0:
 parsefounderoruserpurposeandexactcommandscope. 2. Bangel.begin:
 parsemodules,namespaces,declarations,literals,types,constraints,anddirectives.
 3. Elsa:
 recoversemanticpurpose,variablemeaning,andambiguitywithoutcreatingauthority.
 4. JP:create the canonicalCAPOforF-133anditsassumptions,inputs,out

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSigned_R
reference "PINK-01-P0294"
state R -> R1
node N1
representation JP(PINK-01-P0294)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ PBMEF Pink Paper Gateway Expression and Full Lifecycle 001.pdf, page 294 of 431. PRIVATE PRE-DAY-0 - UNSI
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 295 of 431. Chapter 35 F-134 - Outlet pressure margin Exact expression $\Delta p_{margin} = \Delta p_{available} - \Delta p_{loss} - U_{\Delta p}$ Meaning. Conservative pressure margin after losses and uncertainty. Bound manifestations. MK, JO Gateway stage. Sister/EVE/MK/JO containments simulation evidence before MJ permit Construct Formula-specific expression Module MJ.PBMEF.reservoir.outlet_lake_reentry_friction Namesp...

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_35_F_134_Outlet_pres
reference "PINK-01-P0295"
state R -> R1
node N1
representation JP(PINK-01-P0295)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 295 of 431. Chapter 35 F-134 - Outle
```

Node Placement / Rainbow Path



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source
MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 296 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper IV - F101-F145 35.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-134anditsassumptions, inputs, out

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0296"
state R -> R1
node N1
representation JP(PINK-01-P0296)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 296 of 431. PRIVATE PRE-DAY-0 - UNSI
```



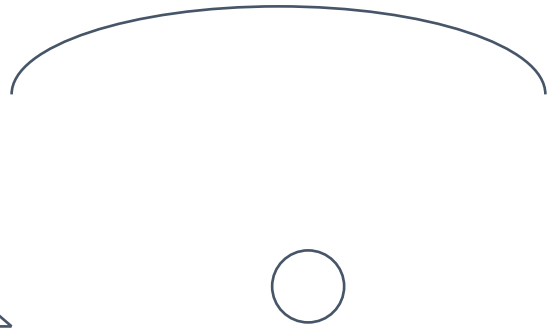
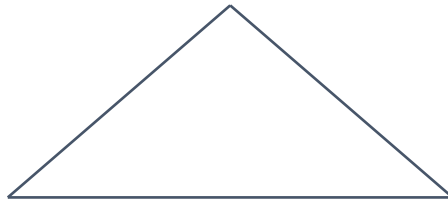
R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 297 of 431. Chapter 36 F-135 - Minimum outlet grade Exact expression $\alpha_{min} = \text{atan}(\max(0, \Delta p_{loss} + U_{\Delta p} - (p_{containment} - p_{lake}))) / (\rho * g * L_{path})$ Meaning. Minimum modeled grade needed to overcome pressure deficit under declared assumptions. Bound manifestations.JP,MK,JO Gateway stage.Sister/EVE/MK/JO containment or simulation evidence before MJ permit Construct Formula-specific expression Mod...

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_36_F_135_Minimum_out
reference "PINK-01-P0297"
state R -> R1
node N1
representation JP(PINK-01-P0297)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 297 of 431. Chapter 36 F-135 - Minim
```

NODE PLACEMENT / RAINBOW PATH



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

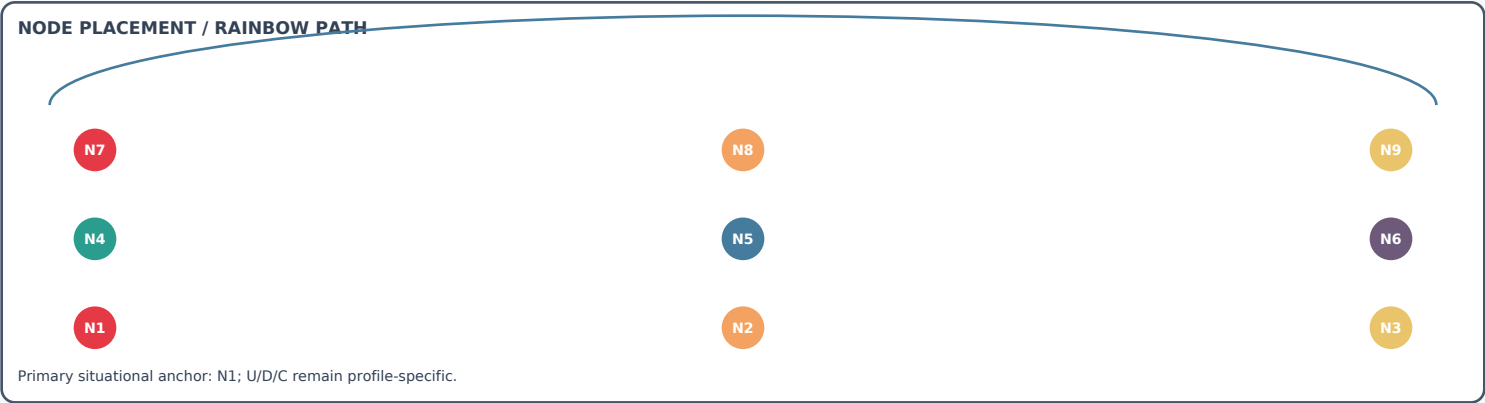
Pink source
 MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page
 298 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper IV
 - F101-F145 36.2 Lifecycle from request to final output 1. R/R0:
 parsefounderoruserpurposeandexactcommandscope. 2. Bangel.begin:
 parsemodules,namespaces,declarations,literals,types,constraints,anddirectives.
 3. Elsa:
 recoversemanticpurpose,variablemeaning,andambiguitywithoutcreatingauthority.
 4. JP:create the canonical CAPO for F-135 and its assumptions, inputs, out

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSigned_R
reference "PINK-01-P0298"
state R -> R1
node N1
representation JP(PINK-01-P0298)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ PBMEF Pink Paper Gateway Expression and Full Lifecycle 001.pdf, page 298 of 431. PRIVATE PRE-DAY-0 - UNSI
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 299 of 431. Chapter 37 F-136 - Selected positive outlet grade Exact expression $\alpha_{selected} = \alpha_{min} + \Delta \alpha$; $\Delta \alpha > 0$ Meaning. Slight positive increase above the modeled minimum; no universal value is asserted. Bound manifestations. JP, MK, JO, MJ Gateway stage. Sister/EVE/MK/JO containment or simulation evidence before MJ permit Construct Formula-specific expression Module MJ.PBMEF.reservoir.outlet_lake_reentry_friction Namespace MJ.PBME

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_37_F_136_Selected_po
reference "PINK-01-P0299"
state R -> R1
node N1
representation JP(PINK-01-P0299)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 299 of 431. Chapter 37 F-136 - Selec
```


Node Placement / Rainbow Path



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

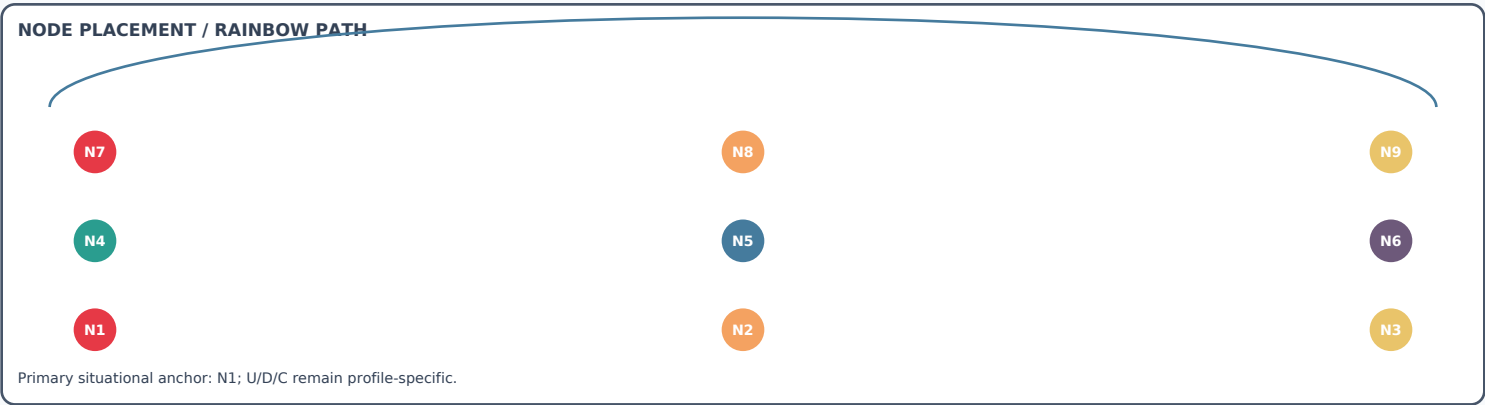
Pink source
MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 300 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper IV - F101-F145 37.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-136anditsassumptions, inputs, out

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0300"
state R -> R1
node N1
representation JP(PINK-01-P0300)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 300 of 431. PRIVATE PRE-DAY-0 - UNSI
```



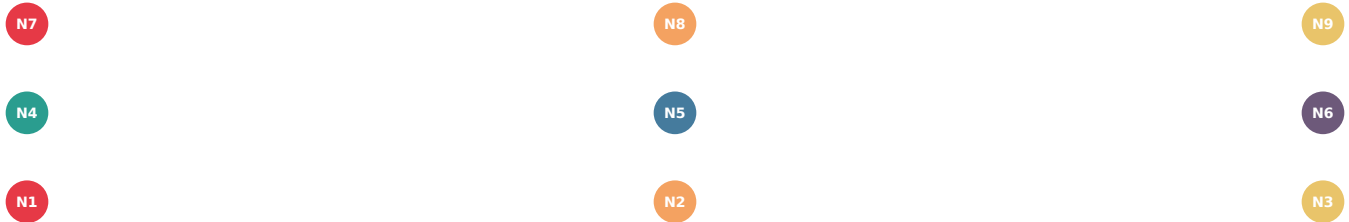
R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 301 of 431. Chapter 38 F-137 - Incompressible reference outlet flow Exact expression $Q_{ref} = C_d A_{out} \sqrt{2 \cdot \max(0, \Delta p_{available} - \Delta p_{loss}) / \rho}$ Meaning. Conditional reference flow under evidenced incompressible assumptions. Bound manifestations. MK, JO Gateway stage. Sister/EVE/MK/JO containments simulation evidence before MJ permit Construct Formula-specific expression Mod...

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_38_F_137_Incompressi
reference "PINK-01-P0301"
state R -> R1
node N1
representation JP(PINK-01-P0301)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 301 of 431. Chapter 38 F-137 - Incom
```

DE PLACEMENT / RAINBOW PATH



R STATUS / OBSERVATION

R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Pink source
MJ_PBMFE_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page
302 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper IV
- F101-F145 38.2 Lifecycle from request to final output 1. R/R0:
receivefounderoruserpurposeandexactcommandscode. 2. Bangel.begin:
parsemodules,namespaces,declarations,literals,types,constraints,anddirectives.
3. Elsa:
recoversemanticpurpose,variablemeaning,andambiguitywithoutcreatingauthority.
4. JP:create the canonical CAPO for F-137 and its assumptions, inputs, out

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSigned_R
reference "PINK-01-P0302"
state R -> R1
node N1
representation JP(PINK-01-P0302)
physics MK(classify, units, boundary, uncertainty)
verify JO(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ PBMEF Pink Paper Gateway Expression and Full Lifecycle 001.pdf, page 302 of 431. PRIVATE PRE-DAY-0 - UNSI
```

Node Placement / Rainbow Path

Rectangle

Cone

Sister umbrella

EVE/lake

next-cycle re-entry

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source

MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 303 of 431. Chapter 39 F-138 - Mean outlet velocity Exact expression

$U_{out}=Q_{ref}/A_{out}$ Meaning.

Conditional mean velocity for the declared outlet area. Bound manifestations. MK, JO

Gateway

stage. Sister/EVE/MK/JO containments simulation evidence before MJ permit

Construct Formula-specific expression Module

MJ.PBMEF.reservoir.outlet_lake_reentry_friction Namesp...

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_39_F_138_Mean_outlet
reference "PINK-01-P0303"
state R -> R1
node N1
representation JP(PINK-01-P0303)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 303 of 431. Chapter 39 F-138 - Mean
```

Node Placement / Rainbow Path



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source
MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 304 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper IV - F101-F145 39.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-138anditsassumptions, inputs, out

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0304"
state R -> R1
node N1
representation JP(PINK-01-P0304)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 304 of 431. PRIVATE PRE-DAY-0 - UNSI
```

Node Placement / Rainbow Path

Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source
MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 305 of 431. Chapter 40 F-139 - Weber number reference Exact expression $We = \rho * U^2 * L / \sigma$ Meaning. Surface-tension-to-inertia reference when the model applies. Bound manifestations. MK, JO Gateway stage. Reservoir/lake/re-entry reference pathway and successor-cycle evidence Construct Formula-specific expression Module MJ.PBMEF.reservoir.outlet_lake_reentry_friction Namesp...

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

module MJ.Rainbow.Chapter_40_F_139_Weber_numbe
reference "PINK-01-P0305"
state R -> R1
node N1
representation JP(PINK-01-P0305)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 305 of 431. Chapter 40 F-139 - Weber

IDE PLACEMENT / RAINBOW PATH

The diagram illustrates the Rainbow Path with nodes arranged in three rows:

- Top row: N7 (red), N8 (orange), N9 (yellow)
- Middle row: N4 (teal), N5 (blue), N6 (purple)
- Bottom row: N1 (red), N2 (orange), N3 (yellow)

A blue arc connects N7 to N9, indicating a path or relationship between these two nodes.

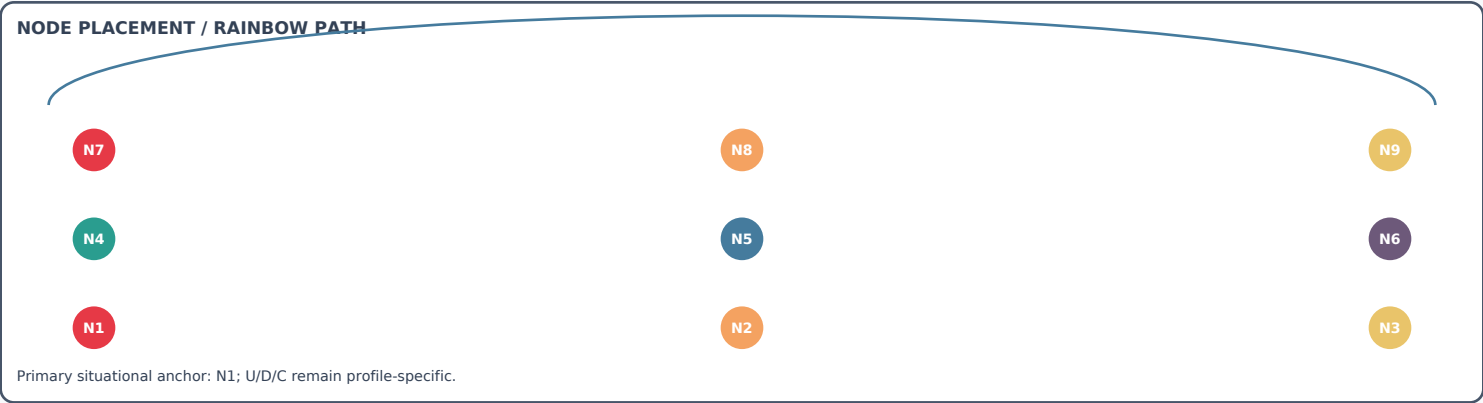
R STATUS / OBSERVATION

SOURCE RULE / INTENT

PATH OF EXPRESSION

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSigned_R
reference "PINK-01-P0306"
state R -> R1
node N1
representation JP(PINK-01-P0306)
physics MK(classify, units, boundary, uncertainty)
verify JO(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ PBMEF Pink Paper Gateway Expression and Full Lifecycle 001.pdf, page 306 of 431. PRIVATE PRE-DAY-0 - UNSI
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 307 of 431. Chapter 41 F-140 - Wave amplitude ratio Exact expression epsilon_a=a_wave/h_L Meaning. Dimensionlesssmall-amplitudeobservationratio. Bound manifestations.MK,JO,EVE Gateway stage.Sister/EVE/MK/JOcontainmentorsimulationevidencebeforeMJpermit Construct Formula-specific expression Module MJ.PBMEF.reservoir.outlet_lake_reentry_friction Namesp...

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> Mj bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_41_F_140_Wave_amplit
reference "PINK-01-P0307"
state R -> R1
node N1
representation JP(PINK-01-P0307)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 307 of 431. Chapter 41 F-140 - Wave
```




R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 308 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper IV - F101-F145 41.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-140anditsassumptions, inputs, out

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

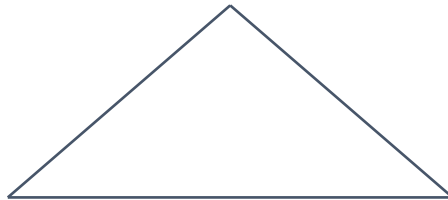
CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0308"
state R -> R1
node N1
representation JP(PINK-01-P0308)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 308 of 431. PRIVATE PRE-DAY-0 - UNSI
```

NODE PLACEMENT / RAINBOW PATH



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.



R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

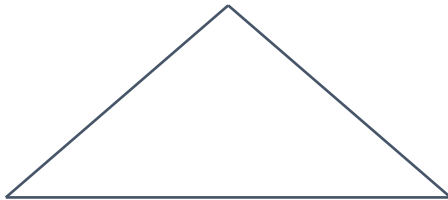
Pink source
 MJ_PBMF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page
 309 of 431. Chapter 42 F-141 - Small-wave observation gate Exact expression
 $WaveGate=(Fr \leq Fr_{max}) \& (\epsilon_a \leq \epsilon_{a,max}) \& (We \leq We_{max}$
 when applicable) Meaning.
 Referencegateforboundedlow-amplitudeobservations;notproofofwavesuppression.
 Bound manifestations.MK,JO,ANGELS Gateway
 stage.Sister/EVE/MK/JOcontainmentorsimulationevidencebeforeMJpermit
 Construct Formula-specific expression Mod...

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_42_F_141_Small_wave_
reference "PINK-01-P0309"
state R -> R1
node N1
representation JP(PINK-01-P0309)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ PBMEF Pink Paper Gateway Expression and Full Lifecycle 001.pdf, page 309 of 431. Chapter 42 F-141 - Small
```



R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Pink source
 MJ_PBMF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page
 310 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper IV
 - F101-F145 42.2 Lifecycle from request to final output 1. R/R0:
 receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin:
 parsemodules,namespaces,declarations,literals,types,constraints,anddirectives.
 3. Elsa:
 recoversemanticpurpose,variablemeaning,andambiguitywithoutcreatingauthority.
 4. JP:createethecanonicalCAPOforF-14anditsassumptions,inputs,out

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSigned_R
reference "PINK-01-P0310"
state R -> R1
node N1
representation JP(PINK-01-P0310)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ PBMEF Pink Paper Gateway Expression and Full Lifecycle 001.pdf, page 310 of 431. PRIVATE PRE-DAY-0 - UNSI
```

Node Placement / Rainbow Path

Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source
MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 311 of 431. Chapter 43 F-142 - Discrete reservoir inventory Exact expression $q_L, t+1 = q_L, t + q_{out} - q_{return} - q_{drain} - q_{escape} - r_L$ Meaning. Receipted discrete update for these separate lake/buffer control volume. Bound manifestations. EVE, M3, MERMAID, JO Gateway stage. Sister/EVE/MK/JO containment or simulation evidence before MJ permit Construct Formula-specific expression Module
MJ.PBMEF.reservoir.outlet_lake_reentry_friction Namespace MJ.PBMEF.reserv

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

module MJ.Rainbow.Chapter_43_F_142_Discrete_re
reference "PINK-01-P0311"
state R -> R1
node N1
representation JP(PINK-01-P0311)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 311 of 431. Chapter 43 F-142 - Disc

Node Placement / Rainbow Path



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

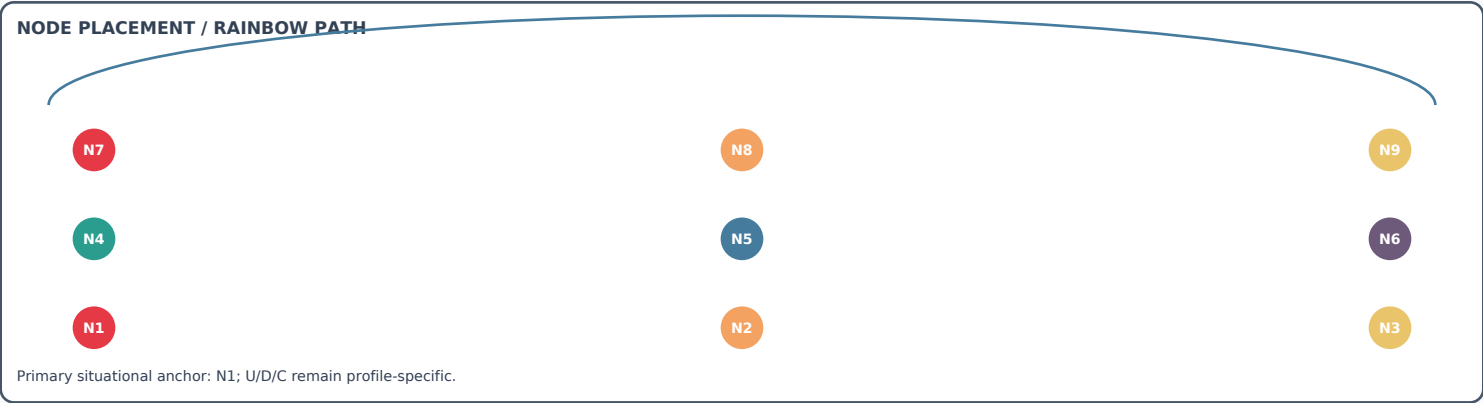
Pink source
MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 312 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper IV - F101-F145 43.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-142anditsassumptions, inputs, out

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0312"
state R -> R1
node N1
representation JP(PINK-01-P0312)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 312 of 431. PRIVATE PRE-DAY-0 - UNSI
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 313 of 431. Chapter 44 F-143 - Vector reservoir headroom Exact expression H_L,k=C_L,k-q_L,k Meaning. Headroomremainsseparateforeveryresourcedimension. Bound manifestations.SISTER,EVE,JO Gateway stage.Sister/EVE/MK/JOcontainmentorsimulationevidencebeforeMJpermit Construct Formula-specific expression Module MJ.PBMEF.reservoir.outlet_lake_reentry_friction Namesp...

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_44_F_143_Vector_rese
reference "PINK-01-P0313"
state R -> R1
node N1
representation JP(PINK-01-P0313)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 313 of 431. Chapter 44 F-143 - Vecto
```

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source

MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 314 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper IV - F101-F145 44.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-143anditsassumptions, inputs, out

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R

reference "PINK-01-P0314"

state R -> R1

node N1

representation JP(PINK-01-P0314)

physics MK(classify, units, boundary, uncertainty)

verify J0(types, evidence, receipts)

if all_required_gates == PASS:

MJ.permit -> R2 -> bounded_output

else:

HOLD | FAIL_TECHNICAL | DENY

Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 314 of 431. PRIVATE PRE-DAY-0 - UNSI

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source

MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 315 of 431. Chapter 45 F-144 - Vector reservoir admission Exact expression Admit_L=AND_k[q_L,k+q_in,k <= (1-h_L,k)C_L,k] Meaning. Admissionfailswhenanyresourcedimensionlacksrequiredheadroom. Bound manifestations.ANGELS,M3,MK,JO,MJ Gateway stage.Sister/EVE/MK/JOcontainmentorsimulationevidencebeforeMJpermit Construct Formula-specific expression Module MJ.PBMEF.reservoir.outlet_lake_reentry_friction Namesp...

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_45_F_144_Vector_rese
reference "PINK-01-P0315"
state R -> R1
node N1
representation JP(PINK-01-P0315)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 315 of 431. Chapter 45 F-144 - Vecto
```

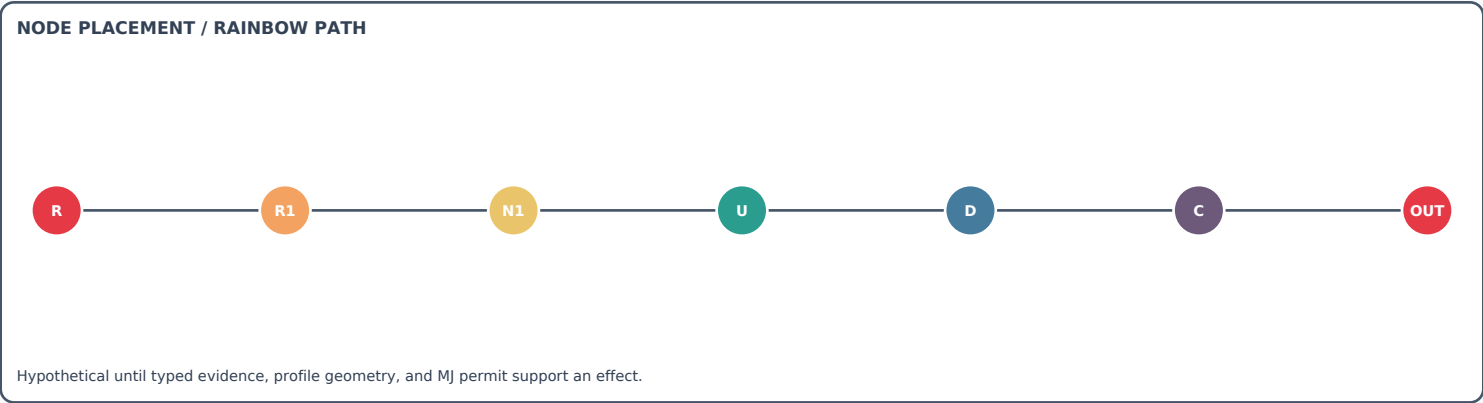

--



Pink source
 MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page
 316 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper IV
 - F101-F145 45.2 Lifecycle from request to final output 1. R/R0:
 receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin:
 parsemodules,namespaces,declarations,literals,types,constraints,anddirectives.
 3. Elsa:
 reversesemanticpurpose,variablemeaning,andambiguitywithoutcreatingauthority.
 4. JP:create the canonical CAPO for F-144 and its assumptions, inputs, out

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSigned_R
reference "PINK-01-P0316"
state R -> R1
node N1
representation JP(PINK-01-P0316)
physics MK(classify, units, boundary, uncertainty)
verify JO(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ PBMEF Pink Paper Gateway Expression and Full Lifecycle 001.pdf, page 316 of 431. PRIVATE PRE-DAY-0 - UNSI
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 317 of 431. Chapter 46 F-145 - No same-cycle feedback predi- cate Exact expression ReentryValid=(cycle_reentry=cycle_exit+1)&no_uncleared_generation_reuse Meaning. Re-entrystartsanewreceiptedcycleandcannotfeedthesameactivegeneration. Bound manifestations.M3,JO,ANGELS,MJ Gateway stage.Mermaid/ShivafinancialanalysisandreconciliationbeforeMJdecis...

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_46_F_145_No_same_cyc
reference "PINK-01-P0317"
state R -> R1
node N1
representation JP(PINK-01-P0317)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 317 of 431. Chapter 46 F-145 - No sa
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 318 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper IV - F101-F145 46.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-145anditsassumptions, inputs, out

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0318"
state R -> R1
node N1
representation JP(PINK-01-P0318)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 318 of 431. PRIVATE PRE-DAY-0 - UNSI
```

Node Placement / Rainbow Path



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

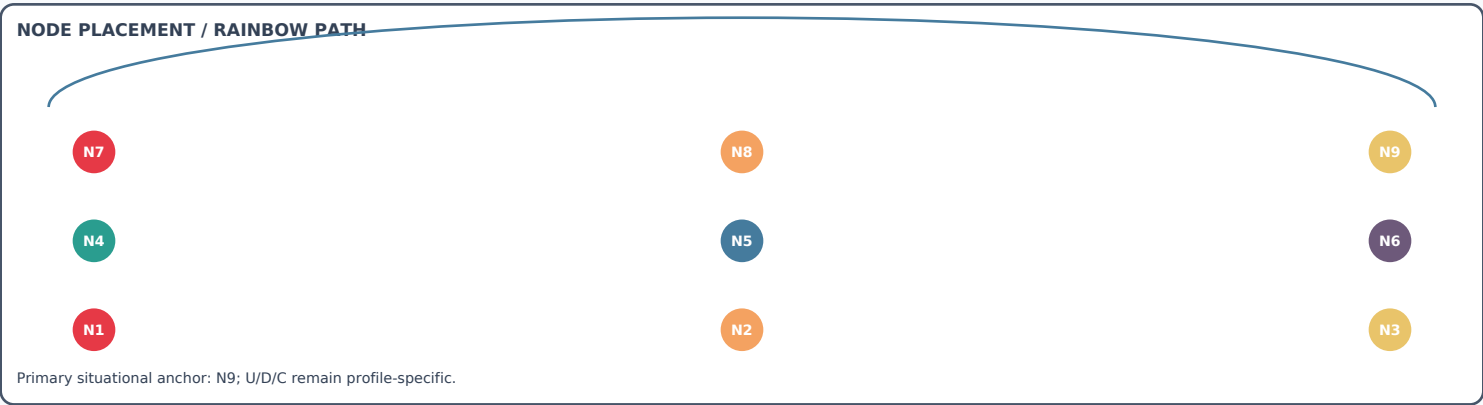
R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 319 of 431. MJ-PBMEFPinkPaper-VolumeV FamilyManifestationsandGovernedObjectGatewayBindings MichaelBangel-AuthorandArchitect August2026

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.MJ_PBMEFPinkPaper_VolumeV_Fa
reference "PINK-01-P0319"
state R -> R1
node N1
representation JP(PINK-01-P0319)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 319 of 431. MJ-PBMEFPinkPaper-Volume
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 320 of 431. Contents 1 Family manifestation verification 4 2 MJ -MJ 5 2.1 Command-life-cyclerole5 3 Bangel -Bangel 6 3.1 Command-life-cyclerole6 4 Elsa -ELSA 7 4.1 Command-life-cyclerole7 5 JP -JP 8 5.1 Command

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Contents_1_Family_manifestat
reference "PINK-01-P0320"
state R -> R1
node N9
representation JP(PINK-01-P0320)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 320 of 431. Contents 1 Family manife
```

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source

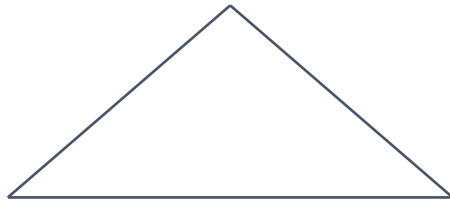
MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 321 of 431. PRIVA TE PRE-DA Y -0 - UNSIGNED REVIEW CANDIDA TE Pink Paper V - F amily / Objects 17Belle -BELLE 20 17.1Command-life-cyclerole20 18Lecanto -LECANTO 21 18.1Command-life-cyclerole21 19Moana -MOANA 22 19.1Command-life-cyclerole

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVA_TE_PRE_DA_Y_0_UNSIGNED
reference "PINK-01-P0321"
state R -> R1
node N1
representation JP(PINK-01-P0321)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 321 of 431. PRIVA TE PRE-DA Y -0 - U
```



R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Pink source
 MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page
 322 of 431, PRIVA TE PRE-DA Y -0 - UNSIGNED REVIEW CANDIDA TE Pink Paper
 V - F amily / Objects Document control Project
 MJ:PhysicsBasedMeasurementEngineeringFramework Project ID MJ-PBMEF-001
 Source build MJ-PBMEF-DAY0-R5-REVIEW-CANDIDATE Document ID
 MJ-PBMEF-PINK-PAPER-001/VOL-V Author and architect MichaelBangel Status
 FOUNDER_REVIEW_CANDIDATE_PENDING_FREEZE Scope
 Allfamilymanifestationsandgovernedobjectsingatewayandlife-cycle

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

```
module MJ.Rainbow.PRIVA_TE_PRE-DA_Y_0_UNSigned
reference "PINK-01-P0322"
state R -> R1
node N1
representation JP(PINK-01-P0322)
physics MK(classify, units, boundary, uncertainty)
verify JO(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ PBMEF Pink Paper Gateway Expression and Full Lifecycle 001.pdf, page 322 of 431. PRIVA TE PRE-DA Y -0 - U
```

Node Placement / Rainbow Path

R

R1

N1

U

D

C

OUT

Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

Source Rule / Intent

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Pink source
MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 323 of 431. Chapter 1 Family manifestation verification 4

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.Chapter_1_Family_manifestati
reference "PINK-01-P0323"
state R -> R1
node N1
representation JP(PINK-01-P0323)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 323 of 431. Chapter 1 Family manifes
```


Node Placement / Rainbow Path



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 324 of 431. Chapter 2 MJ -MJ Construct Formula-specific expression Module MJ.PBMEF.Family.MJ Namespace MJ.PBMEF.Family.MJ.Day0 Import MJ.PBMEF.Manifest,MJ.PBMEF.Authority,MJ.PBMEF.Formulas Declaration participantMJ Definition Projectroot,founder-governedauthorityandfinalboundedpermitdecision. Capability boundedpermit,hold,deny,projectstate Participant MJ Relationship Incoming: MICHAEL_BANGEL;outgoing: Bangel Function Projectroot

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.Chapter_2_MJ_MJ_Construct_Fo
reference "PINK-01-P0324"
state R -> R1
node N1
representation JP(PINK-01-P0324)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 324 of 431. Chapter 2 MJ -MJ Constru
```

Node Placement / Rainbow Path

Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source

MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 325 of 431. Chapter 3 Bangel -Bangel Construct Formula-specific expression

Module MJ.PBMEF.Family.Bangel Namespace MJ.PBMEF.Family.Bangel .Day0

Import MJ.PBMEF.Manifest,MJ.PBMEF.Authority,MJ.PBMEF.Formulas Declaration

participantBangel Definition

Human-facinggovernedlanguage thatpreservespurposeandcommandstructure.

Capability

typedcommandenvelope,sourcecerepresentation,BangelSheetsource,if/how/thenoperational

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.Chapter_3_Bangel _Bangel _Cons
reference "PINK-01-P0325"
state R -> R1
node N1
representation JP(PINK-01-P0325)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 325 of 431. Chapter 3 Bangel -Bangel
```

Node Placement / Rainbow Path

R

R1

N1

U

D

C

OUT

Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

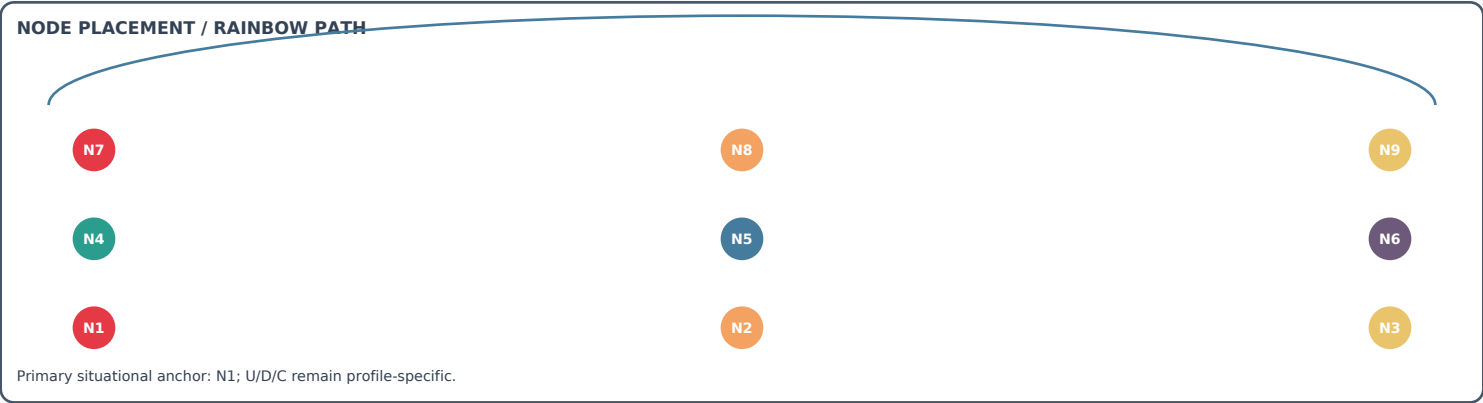
Pink source
MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 326 of 431. Chapter 4 Elsa -ELSA Construct Formula-specific expression Module MJ.PBMEF.Family.ELSA Namespace MJ.PBMEF.Family.ELSA.Day0 Import MJ.PBMEF.Manifest,MJ.PBMEF.Authority,MJ.PBMEF.Formulas Declaration participantELSA Definition Deterministicsemanticrecoveryandpurpose-preservationlayer. Capability semanticenvelope,ambiguityhold Participant Elsa Relationship Incoming: Bangel ;outgoing: JP Function Deterministicsemanticrecov

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

module MJ.Rainbow.Chapter_4_Elsa_ELSA_Construc
reference "PINK-01-P0326"
state R -> R1
node N1
representation JP(PINK-01-P0326)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 326 of 431. Chapter 4 Elsa -ELSA Con



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 327 of 431. Chapter 5 JP -JP Construct Formula-specific expression Module MJ.PBMEF.Family.JP Namespace MJ.PBMEF.Family.JP.Day0 Import MJ.PBMEF.Manifest,MJ.PBMEF.Authority,MJ.PBMEF.Formulas Declaration participantJP Definition Canonicalmathematical,algorithmic,topology,CAPO,andarchitecturerepresentation. Capability mathCAPO,algorithmCAPO,architectureCAPO,PearlCAPO,BangelSheetdependencyCAPO,JP

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_5_JP_JP_Construct_Fo
reference "PINK-01-P0327"
state R -> R1
node N1
representation JP(PINK-01-P0327)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 327 of 431. Chapter 5 JP -JP Constru
```

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

Source Rule / Intent

Pink source

MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 328 of 431. Chapter 6 Mika / MK -MK Construct Formula-specific expression

Module MJ.PBMEF.Family.MK Namespace MJ.PBMEF.Family.MK.Day0 Import MJ.PBMEF.Manifest,MJ.PBMEF.Authority,MJ.PBMEF.Formulas Declaration participantMK Definition PhysicsModulatorSystemfordimensional,conservation,boundary,scale,andevidencerepresentation Capability physicsCAPO,not-applicablereceipt,hold,technicalfail,Pearlphysicsreceipt,spreadsheetresponse

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

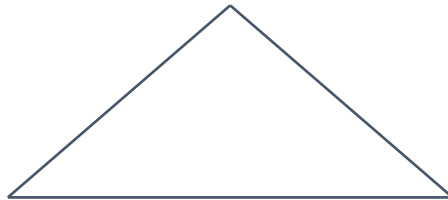
CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_6_Mika_MK_MK_Constru
reference "PINK-01-P0328"
state R -> R1
node N1
representation JP(PINK-01-P0328)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 328 of 431. Chapter 6 Mika / MK -MK
```

NODE PLACEMENT / RAINBOW PATH



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.



R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source
 MJ.PBMEF.Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page
 329 of 431. Chapter 7 JO -JO Construct Formula-specific expression Module
 MJ.PBMEF.Family.JO.Namespace MJ.PBMEF.Family.JO.Day0 Import
 MJ.PBMEF.Manifest,MJ.PBMEF.Authority,MJ.PBMEF.Formulas Declaration
 participantJO Definition
 DeterministicType,unit,proof,validation,runtime,andevidenceengine. Capability
 proofofreceipt,rumtime,result,hold,deny,sheetrevisionreceipt,Pearlbalancereceipt
 Participant JO Relationship Incoming: MK;outgoing:

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

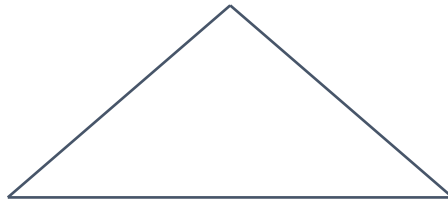
CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_7_J0_J0_Construct_Fo
reference "PINK-01-P0329"
state R -> R1
node N1
representation JP(PINK-01-P0329)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ PBMEF Pink Paper Gateway Expression and Full Lifecycle 001.pdf, page 329 of 431. Chapter 7 J0 -J0 Constr
```

NODE PLACEMENT / RAINBOW PATH



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.



R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

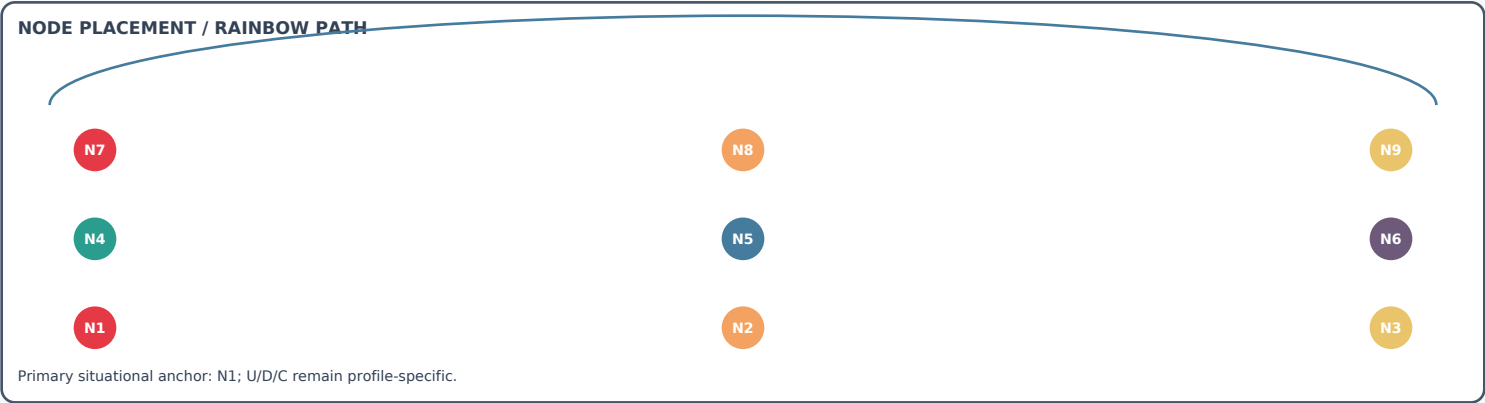
Pink source
 MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page
 330 of 431. Chapter 8 MJOS -MJOS Construct Formula-specific expression
 Module MJ.PBMEF.Family.MJOS.Namespace MJ.PBMEF.Family.MJOS.Day0 Import
 MJ.PBMEF.Manifest,MJ.PBMEF.Authority,MJ.PBMEF.Formulas Declaration
 participantMJOS Definition
 Operating-systemandinfrastructuresubstrateinsideMJ. Capability
 resource,service,infrastructureevidence participant MJOS Relationship
 Incoming: JO_EXECUTION;outgoing: receipttoMJ/JO Function Operati

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_8_MJOS_MJOS_Construc
reference "PINK-01-P0330"
state R -> R1
node N1
representation JP(PINK-01-P0330)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ PBMEF Pink Paper Gateway Expression and Full Lifecycle 001.pdf, page 330 of 431. Chapter 8 MJOS -MJOS Con
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 331 of 431. Chapter 9 Angels -ANGELS Construct Formula-specific expression Module MJ.PBMEF.Family.ANGELS Namespace MJ.PBMEF.Family.ANGELS.Day0 Import MJ.PBMEF.Manifest,MJ.PBMEF.Authority,MJ.PBMEF.Formulas Declaration participantANGELS Definition Domain-specificobservation,telemetry,hold,denial,andcorrective-commandfamily Capability safetyreceipt,hold,deny,correctionrequest Participant Angels Relationship Incoming: JO;outgoing:

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> Mj bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_9_Angels_ANGELS_Cons
reference "PINK-01-P0331"
state R -> R1
node N1
representation JP(PINK-01-P0331)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 331 of 431. Chapter 9 Angels -ANGELS
```


NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source
MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 332 of 431. Chapter 10 Bellatrix -BELLATRIX Construct Formula-specific expression Module MJ.PBMEF.Family.BELLATRIX Namespace MJ.PBMEF.Family.BELLATRIX.Day0 Import MJ.PBMEF.Manifest,MJ.PBMEF.Authority,MJ.PBMEF.Formulas Declaration participantBELLATRIX Definition Independentdefense,challenge,quarantine,hostile-deviationanalysis,anddenial. Capability deny,quarantine,challengereceipt Participant Bellatrix Relations...

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_10_Bellatrix_BELLATR
reference "PINK-01-P0332"
state R -> R1
node N1
representation JP(PINK-01-P0332)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 332 of 431. Chapter 10 Bellatrix -BE
```

Node Placement / Rainbow Path

R

R1

N1

U

D

C

OUT

Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source

MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 333 of 431. Chapter 11 Sister -SISTER Construct Formula-specific expression

Module MJ.PBMEF.Family.SISTER Namespace MJ.PBMEF.Family.SISTER.Day0

Import MJ.PBMEF.Manifest,MJ.PBMEF.Authority,MJ.PBMEF.Formulas Declaration

participantSISTER Definition

Predictivedigitaltwin,preallocationevidence,anomalydetection,umbrellacollection, andcano

Capability forecast,containmentrequest,digital-twinreceipt,physic

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

module MJ.Rainbow.Chapter_11_Sister_SISTER_Con

reference "PINK-01-P0333"

state R -> R1

node N1

representation JP(PINK-01-P0333)

physics MK(classify, units, boundary, uncertainty)

verify J0(types, evidence, receipts)

if all_required_gates == PASS:

MJ.permit -> R2 -> bounded_output

else:

HOLD | FAIL_TECHNICAL | DENY

Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 333 of 431. Chapter 11 Sister -SISTE

Node Placement / Rainbow Path

R

R1

N1

U

D

C

OUT

Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source
MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 334 of 431. Chapter 12 EVE -EVE Construct Formula-specific expression Module MJ.PBMEF.Family.EVE Namespace MJ.PBMEF.Family.EVE.Day0 Import MJ.PBMEF.Manifest,MJ.PBMEF.Authority,MJ.PBMEF.Formulas Declaration participantEVE Definition Variance,evaporativeeffect,screencapture,leakage,smoke-likeegress,andboundary-account Capability EVEobservation,capture/egressledger,hold,Pearlescape/captureobservat...

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

module MJ.Rainbow.Chapter_12_EVE_EVE_Construct
reference "PINK-01-P0334"
state R -> R1
node N1
representation JP(PINK-01-P0334)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 334 of 431. Chapter 12 EVE -EVE Cons

Node Placement / Rainbow Path

Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

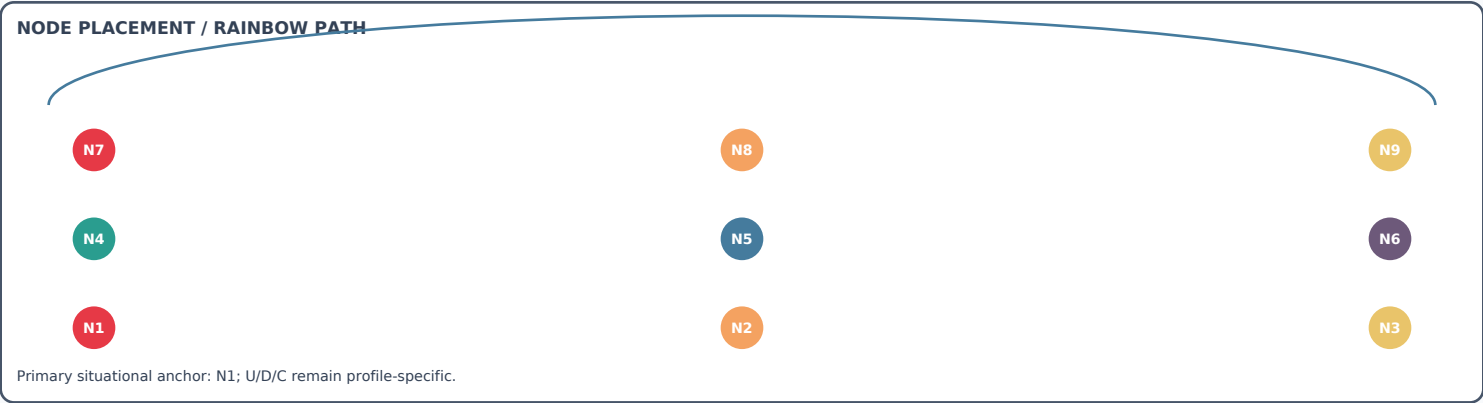
Pink source
MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 335 of 431. Chapter 13 Mary / M3 -M3 Construct Formula-specific expression
Module MJ.PBMEF.Family.M3 Namespace MJ.PBMEF.Family.M3.Day0 Import MJ.PBMEF.Manifest,MJ.PBMEF.Authority,MJ.PBMEF.Formulas Declaration participantM3 Definition Boundedrouting,APIgateway,loadbalancing,connectionpooling,andallocationstewardship. Capability routereceipt,allocationleaseuse,returnreceipt,Pearlallocation/transferreceipt,BangelSheetp

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

module MJ.Rainbow.Chapter_13_Mary_M3_M3_Constr
reference "PINK-01-P0335"
state R -> R1
node N1
representation JP(PINK-01-P0335)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 335 of 431. Chapter 13 Mary / M3 -M3



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 336 of 431. Chapter 14 Mermaid -MERMAID Construct Formula-specific expression Module MJ.PBMEF.Family.MERMAID Namespace MJ.PBMEF.Family.MERMAID.Day0 Import MJ.PBMEF.Manifest,MJ.PBMEF.Authority,MJ.PBMEF.Formulas Declaration participantMERMAID Definition Accounting,reconciliation,exposure,custodyevidence,statements,taxlots,andfinancialconse Capability account,balance,exposure,reconciliationreceipt Participant Merm...

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_14_Mermaid_MERMAID_C
reference "PINK-01-P0336"
state R -> R1
node N1
representation JP(PINK-01-P0336)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 336 of 431. Chapter 14 Mermaid -MERMAID
```

Node Placement / Rainbow Path

R

R1

N1

U

D

C

OUT

Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source

MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 337 of 431. Chapter 15 Shiva -SHIVA Construct Formula-specific expression

Module MJ.PBMEF.Family.SHIVA Namespace MJ.PBMEF.Family.SHIVA.Day0

Import MJ.PBMEF.Manifest,MJ.PBMEF.Authority,MJ.PBMEF.Formulas Declaration

participantSHIVA Definition

Finance,money,treasury,liquidity,capital-jobclassification,risk/opportunityanalysis, anddist

Capability capitalproposal,job-of-moneyclassification,distributionplan Participan

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

module MJ.Rainbow.Chapter_15_Shiva_SHIVA_Const

reference "PINK-01-P0337"

state R -> R1

node N1

representation JP(PINK-01-P0337)

physics MK(classify, units, boundary, uncertainty)

verify J0(types, evidence, receipts)

if all_required_gates == PASS:

MJ.permit -> R2 -> bounded_output

else:

HOLD | FAIL_TECHNICAL | DENY

Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 337 of 431. Chapter 15 Shiva -SHIVA

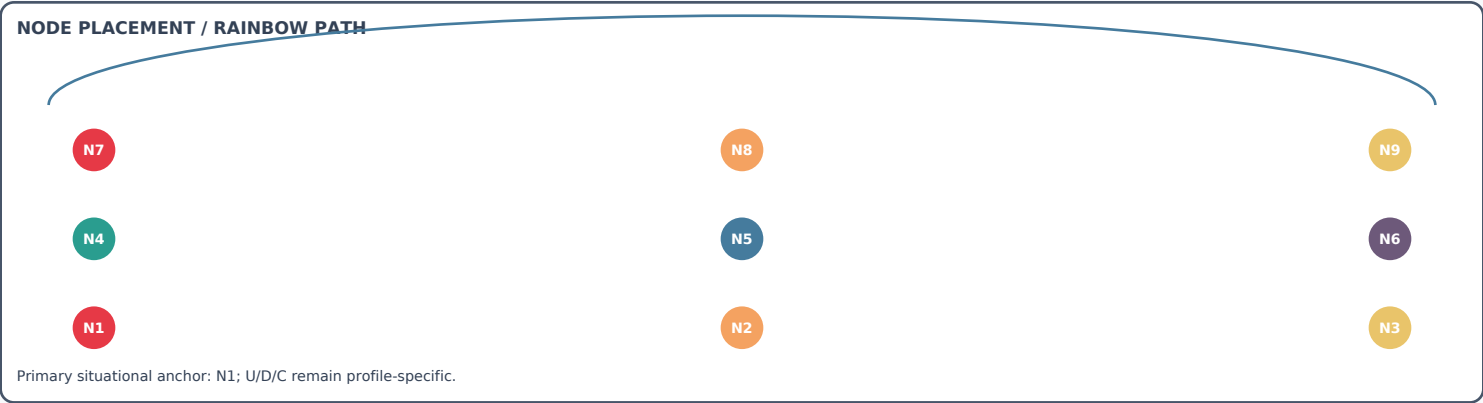


R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 338 of 431. Chapter 16 Shekina -SHEKINA Construct Formula-specific expression Module MJ.PBMEF.Family.SHEKINA Namespace MJ.PBMEF.Family.SHEKINA.Day0 Import MJ.PBMEF.Manifest,MJ.PBMEF.Authority,MJ.PBMEF.Formulas Declaration participantSHEKINA Definition Distributedplacement,replication,continuity,andinfrastructureevidence. Capability placementreceipt,continuityevidence Participant Shek...

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> Mj bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_16_Shekina_SHEKINA_C
reference "PINK-01-P0338"
state R -> R1
node N1
representation JP(PINK-01-P0338)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 338 of 431. Chapter 16 Shekina -SHEK
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 339 of 431. Chapter 17 Belle -BELLE Construct Formula-specific expression Module MJ.PBMEF.Family.BELLE Namespace MJ.PBMEF.Family.BELLE.Day0 Import MJ.PBMEF.Manifest,MJ.PBMEF.Authority,MJ.PBMEF.Formulas Declaration participantBELLE Definition Engineeringanalysis,feasibility,topologyreview,andboundedproposals. Capability engineeringproposal,risknote Participant Belle Relationship Incoming: MK;outgoing: receipttoMJ/JO Function Engi

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> Mj bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_17_Belle_BELLE_Const
reference "PINK-01-P0339"
state R -> R1
node N1
representation JP(PINK-01-P0339)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 339 of 431. Chapter 17 Belle -BELLE
```


Node Placement / Rainbow Path



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

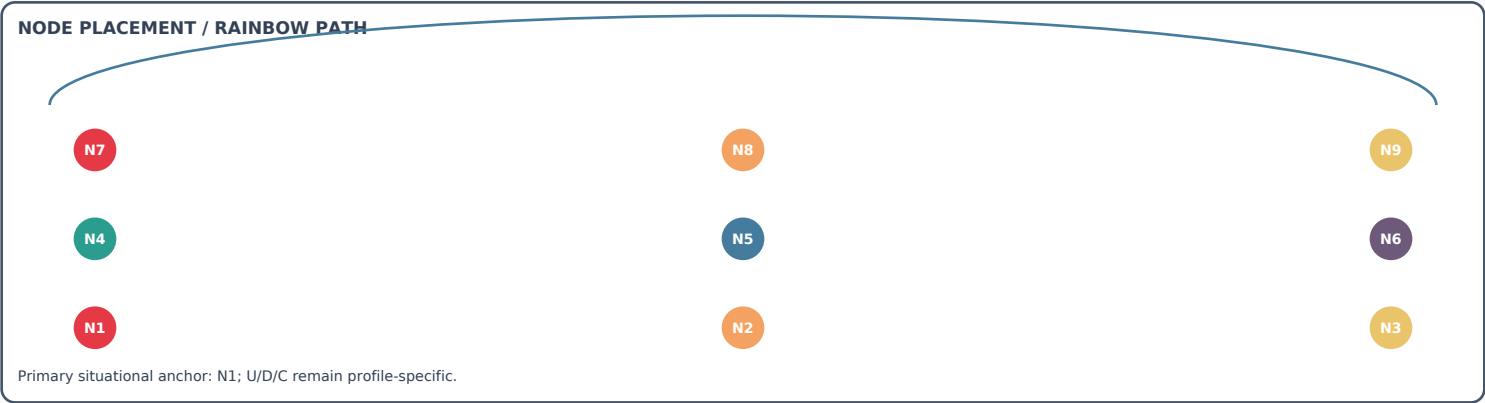
R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 340 of 431. Chapter 18 Lecanto -LECANTO Construct Formula-specific expression Module MJ.PBMEF.Family.LECANTO Namespace MJ.PBMEF.Family.LECANTO.Day0 Import MJ.PBMEF.Manifest,MJ.PBMEF.Authority,MJ.PBMEF.Formulas Declaration participantLECANTO Definition Truthfulgovernedvisualizationofstate,provenance,uncertainty,andsystemstructure. Capability visualrepresentation Participant Lecanto Relationship Incomi...

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_18_Lecanto_LECANTO_C
reference "PINK-01-P0340"
state R -> R1
node N1
representation JP(PINK-01-P0340)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 340 of 431. Chapter 18 Lecanto -LECA
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 341 of 431. Chapter 19 Moana -MOANA Construct Formula-specific expression Module MJ.PBMEF.Family.MOANA Namespace MJ.PBMEF.Family.MOANA.Day0 Import MJ.PBMEF.Manifest,MJ.PBMEF.Authority,MJ.PBMEF.Formulas Declaration participantMOANA Definition Browserandinteractionpresentationofgovernedapplicationsandevidence. Capability interactionsurface Participant Moana Relationship Incoming: LECANTO;outgoing: receipttoMJ/JO Function Browseran

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> Mj bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_19_Moana_MOANA_Const
reference "PINK-01-P0341"
state R -> R1
node N1
representation JP(PINK-01-P0341)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 341 of 431. Chapter 19 Moana -MOANA
```

Node Placement / Rainbow Path

R

R1

N1

U

D

C

OUT

Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

Source Rule / Intent

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Pink source

MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 342 of 431. Chapter 20 Aviator -AVIATOR Construct Formula-specific expression Module MJ.PBMEF.Family.AVIATOR Namespace MJ.PBMEF.Family.AVIATOR.Day0 Import MJ.PBMEF.Manifest,MJ.PBMEF.Authority,MJ.PBMEF.Formulas Declaration participantAVIATOR Definition Organizationalworkspace,projects,decisions,roles,knowledge,andgovernedworkflow. Capability workspacestate,decisionrecords Participant Aviator Relations...

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.Chapter_20_Aviator_AVIATOR_C
reference "PINK-01-P0342"
state R -> R1
node N1
representation JP(PINK-01-P0342)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 342 of 431. Chapter 20 Aviator -AVIA
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 343 of 431. Chapter 21 CHI -CHI Construct Formula-specific expression Module MJ.PBMEF.Family.CHI Namespace MJ.PBMEF.Family.CHI.Day0 Import MJ.PBMEF.Manifest,MJ.PBMEF.Authority,MJ.PBMEF.Formulas Declaration participantCHI Definition Temporalvarianceandexpected-observed-delivered-reconcileddifferencestate. Capability varianceobject Participant CHI Relationship Incoming: MJ/rootcontext;outgoing: receipttoMJ/JO Function Temporalvari

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> Mj bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_21_CHI_CHI_Construct
reference "PINK-01-P0343"
state R -> R1
node N1
representation JP(PINK-01-P0343)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 343 of 431. Chapter 21 CHI -CHI Cons
```

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source

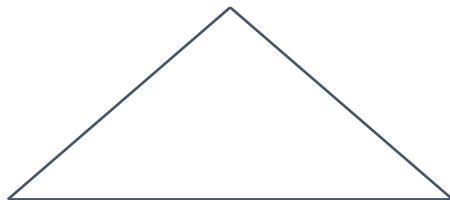
MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 344 of 431. Chapter 22 WATER -WATER Construct Formula-specific expression Module MJ.PBMEF.Family.WATER Namespace MJ.PBMEF.Family.WATER.Day0 Import MJ.PBMEF.Manifest,MJ.PBMEF.Authority,MJ.PBMEF.Formulas Declaration participantWATER Definition Intervaluncertainty,verifiedfloor,andboundedunknown-stateclassification. Capability stateclassification Participant WATER Relationship Incoming: MJ/rootcontext;outgoing: receipttoMJ/JO Funct

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_22_WATER_WATER_Const
reference "PINK-01-P0344"
state R -> R1
node N1
representation JP(PINK-01-P0344)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 344 of 431. Chapter 22 WATER -WATER
```



R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Pink source
MJ_PBMef_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page
345 of 431. Chapter 23 Governed object verification 26

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

```
module MJ.Rainbow.Chapter_23_Governed_object_v
reference "PINK-01-P0345"
state R -> R1
node N1
representation JP(PINK-01-P0345)
physics MK(classify, units, boundary, uncertainty)
verify JO(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ PBMEF Pink Paper Gateway Expression and Full Lifecycle 001.pdf, page 345 of 431. Chapter 23 Governed obje
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 346 of 431. PRIVA TE PRE-DA Y -0 - UNSIGNED REVIEW CANDIDA TE Pink Paper V - F amily / Objects 23.1 JP_CAPO Construct Formula-specific expression Module MJ.PBMEF.Object.JP_CAPO Namespace MJ.PBMEF.Object.JP_CAPO.Day0 Declaration objectJP_CAPO Definition Canonicalmath,algorithm,topology,orarchitecturerepresentation Capability Represent,retain,route,reconcile,orevidenceonlyasdeclared Participant Boundparticipantsdeterminedbyobjectr

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> Mj bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVA_TE_PRE_DA_Y_0_UNSIGNED
reference "PINK-01-P0346"
state R -> R1
node N1
representation JP(PINK-01-P0346)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 346 of 431. PRIVA TE PRE-DA Y -0 - U
```

Node Placement / Rainbow Path



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source
MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 347 of 431. PRIVA TE PRE-DA Y -0 - UNSIGNED REVIEW CANDIDA TE Pink Paper V - F amily / Objects 23.3 JO_PROOF_RECEIPT Construct Formula-specific expression Module MJ.PBMEF.Object.JO_PROOF_RECEIPT Namespace MJ.PBMEF.Object.JO_PROOF_RECEIPT.Day0 Declaration objectJO_PROOF_RECEIPT Definition Executedverificationresult Capability Represent,retain,route,reconcile,orevidenceonlyasdeclared Participant Boundparticipantsdeterminedbyobject

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.PRIVA_TE_PRE_DA_Y_0_UNSIGNED
reference "PINK-01-P0347"
state R -> R1
node N1
representation JP(PINK-01-P0347)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 347 of 431. PRIVA TE PRE-DA Y -0 - U
```




R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 348 of 431. PRIVA TE PRE-DA Y -0 - UNSIGNED REVIEW CANDIDA TE Pink Paper V - F amily / Objects 23.5 EVE_OBSERVATION Construct Formula-specific expression Module MJ.PBMEF.Object.EVE_OBSERVATION Namespace MJ.PBMEF.Object.EVE_OBSERVATION.Day0 Declaration objectEVE_OBSERVATION Definition Variance,screen,capture,egress,orresidualEvidence Capability Represent,retain,route,reconcile,orevidenceonlyasdeclared Particip...

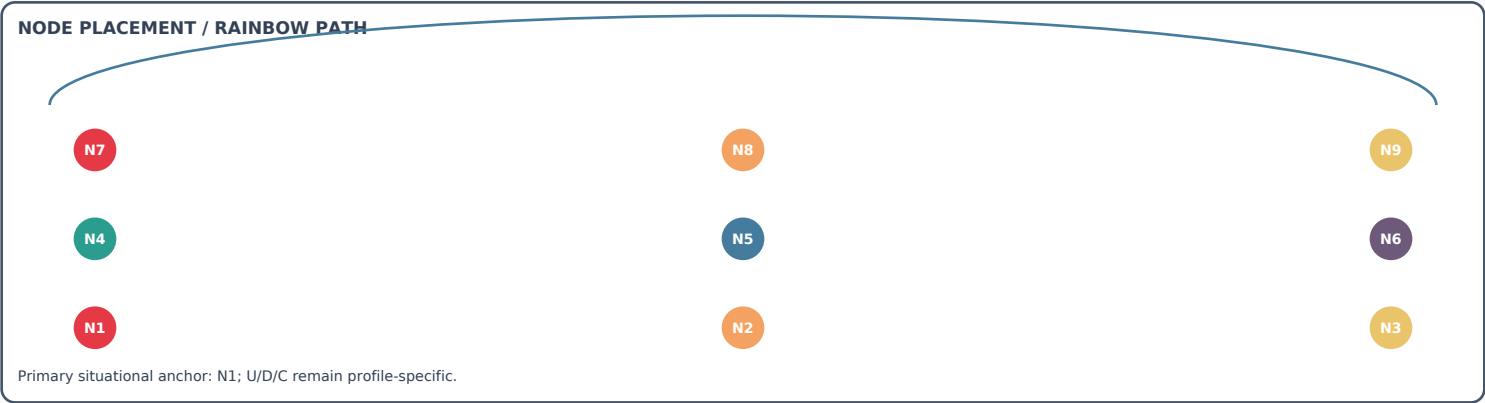
PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```

module MJ.Rainbow.PRIVA_TE_PRE_DA_Y_0_UNSIGNED
reference "PINK-01-P0348"
state R -> R1
node N1
representation JP(PINK-01-P0348)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 348 of 431. PRIVA TE PRE-DA Y -0 - U

```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 349 of 431. PRIVA TE PRE-DA Y -0 - UNSIGNED REVIEW CANDIDA TE Pink Paper V - F amily / Objects 23.7 MERMAID_ACCOUNT Construct Formula-specific expression Module MJ.PBMEF.Object.MERMAID_ACCOUNT Namespace MJ.PBMEF.Object.MERMAID_ACCOUNT.Day0 Declaration objectMERMAID_ACCOUNT Definition Accounting,custody,exposure,tax,andreconciliationrecord Capability Represent,retain,route,reconcile,orevidenceonlyasdeclared Particip...

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> Mj bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVA_TE_PRE_DA_Y_0_UNSIGNED
reference "PINK-01-P0349"
state R -> R1
node N1
representation JP(PINK-01-P0349)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 349 of 431. PRIVA TE PRE-DA Y -0 - U
```

Node Placement / Rainbow Path

R

R1

N1

U

D

C

OUT

Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

Source Rule / Intent

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Pink source

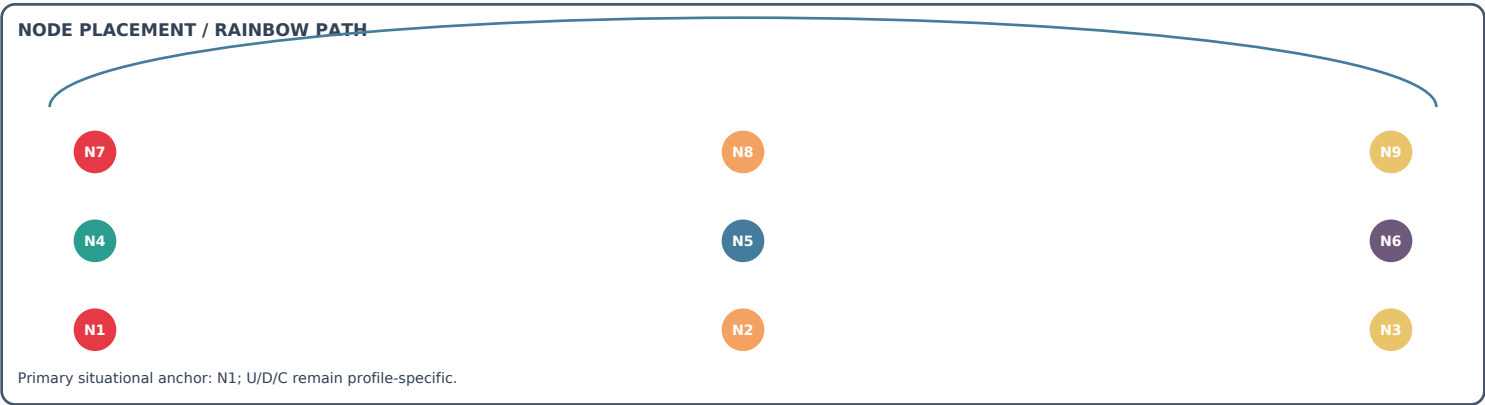
MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 350 of 431. PRIVA TE PRE-DA Y -0 - UNSIGNED REVIEW CANDIDA TE Pink Paper V - F amily / Objects 23.9 SHIVAS_INTERNAL_REFLECTION Construct Formula-specific expression Module MJ.PBMEF.Object.SHIVAS_INTERNAL_REFLECTION Namespace MJ.PBMEF.Object.SHIVAS_INTERNAL_REFLECTION.Day0 Declaration objectSHIVAS_INTERNAL_REFLECTION Definition Internalnon-transferablecapital-reflectionobject Capabil...

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.PRIVA_TE_PRE_DA_Y_0_UNSIGNED
reference "PINK-01-P0350"
state R -> R1
node N1
representation JP(PINK-01-P0350)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 350 of 431. PRIVA TE PRE-DA Y -0 - U
```



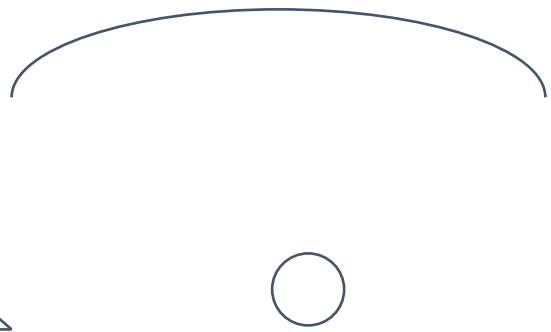
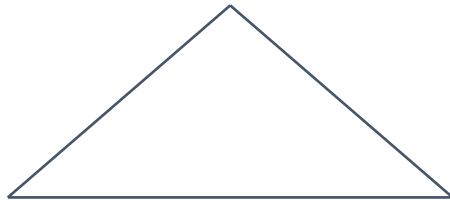
R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 351 of 431. PRIVA TE PRE-DA Y -0 - UNSIGNED REVIEW CANDIDA TE Pink Paper V - F amily / Objects 23.11 WATER_INTERVAL_STATE Construct Formula-specific expression Module MJ.PBMEF.Object.WATER_INTERVAL_STATE Namespace MJ.PBMEF.Object.WATER_INTERVAL_STATE.Day0 Declaration objectWATER_INTERVAL_STATE Definition Uncertaintyintervalstate Capability Represent,retain,route,reconcile,orevidenceonlyasdeclared Participant Boundparticipantsdet

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> Mj bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVA_TE_PRE_DA_Y_0_UNSIGNED
reference "PINK-01-P0351"
state R -> R1
node N1
representation JP(PINK-01-P0351)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 351 of 431. PRIVA TE PRE-DA Y -0 - U
```

NODE PLACEMENT / RAINBOW PATH



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source
 MJ.PBMEF.Pink.Paper.Gateway.Expression.and.Full.Lifecycle.001.pdf, page
 352 of 431. PRIVA TE PRE-DA Y -0 - UNSIGNED REVIEW CANDIDA TE Pink Paper
 V - F amily / Objects 23.13 PEARL_VARIANCE_CONTAINER Construct
 Formula-specific expression Module
 MJ.PBMEF.Object.PEARL_VARIANCE_CONTAINER Namespace
 MJ.PBMEF.Object.PEARL_VARIANCE_CONTAINER.Day0 Declaration
 objectPEARL_VARIANCE_CONTAINER Definition
 Legacy stableDforapearl-shapedhypotheticalsimulationandinformation-retentionobject;ne

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVA_TE_PRE-DA_Y_0_UNSigned
reference "PINK-01-P0352"
state R -> R1
node N5
representation JP(PINK-01-P0352)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ PBMEF Pink Paper Gateway Expression and Full Lifecycle 001.pdf, page 352 of 431. PRIVA TE PRE-DA Y -0 - U
```

Node Placement / Rainbow Path

R

R1

N1

U

D

C

OUT

Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

Source Rule / Intent

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

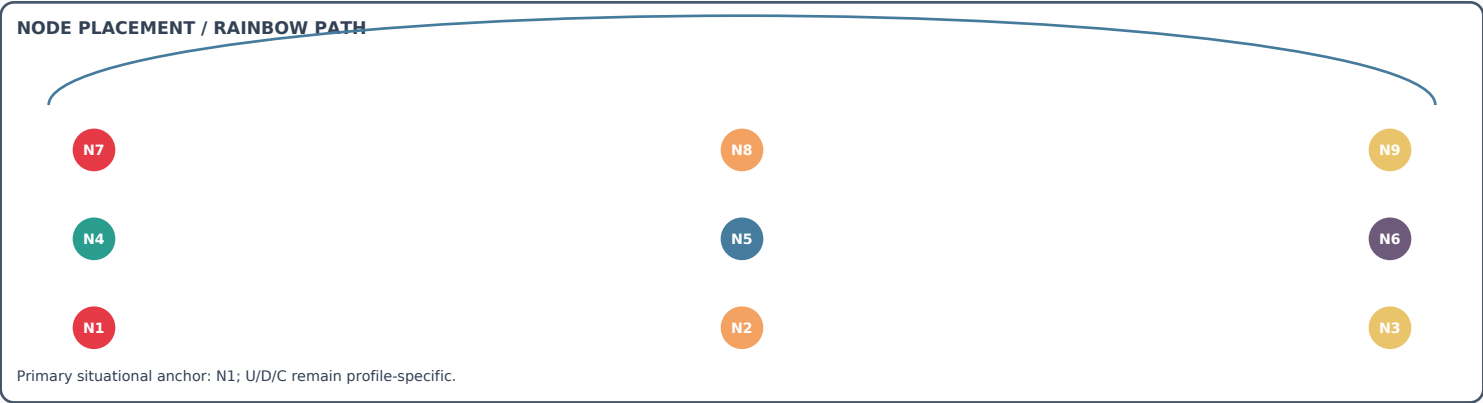
Pink source
MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 353 of 431. PRIVA TE PRE-DA Y -0 - UNSIGNED REVIEW CANDIDA TE Pink Paper V - F amily / Objects 23.15 PEARL_ACOUSTIC_PROFILE Construct Formula-specific expression Module MJ.PBMEF.Object.PEARL_ACOUSTIC_PROFILE Namespace MJ.PBMEF.Object.PEARL_ACOUSTIC_PROFILE.Day0 Declaration objectPEARL_ACOUSTIC_PROFILE Definition Hypotheticalacousticsimulationprofilewithdeclaredfrequency,medium,observability,uncert

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

module MJ.Rainbow.PRIVA_TE_PRE_DA_Y_0_UNSIGNED
reference "PINK-01-P0353"
state R -> R1
node N1
representation JP(PINK-01-P0353)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 353 of 431. PRIVA TE PRE-DA Y -0 - U

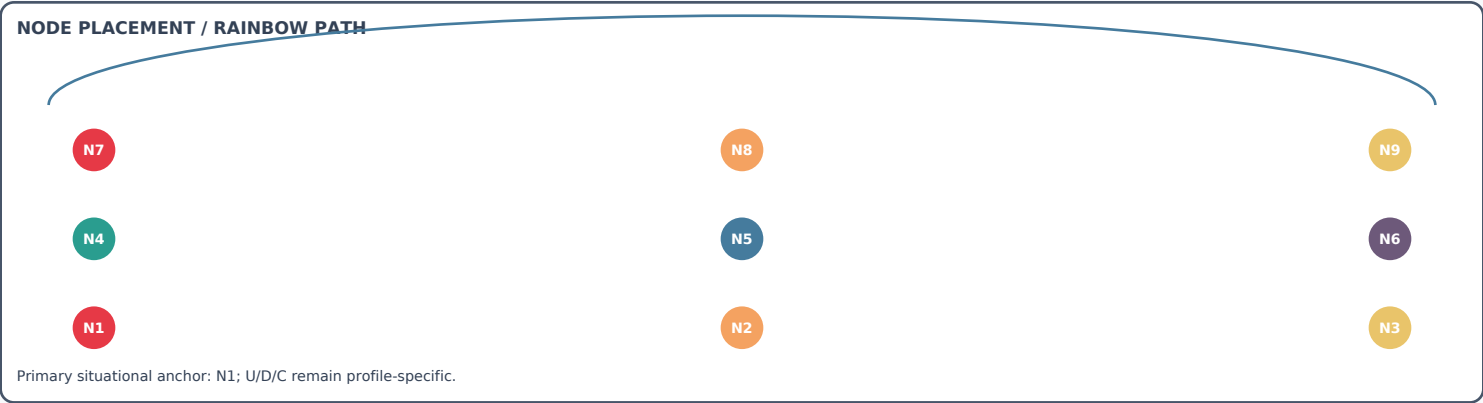


R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 354 of 431. PRIVA TE PRE-DA Y -0 - UNSIGNED REVIEW CANDIDA TE Pink Paper V - F amily / Objects 23.17 Bangel _SHEET Construct Formula-specific expression Module MJ.PBMEF.Object.Bangel _SHEET Namespace MJ.PBMEF.Object.Bangel _SHEET.Day0 Declaration objectBangel _SHEET Definition Governedspreadsheet-likeworkbookwithimmutablerevisions,typedcells,dependencygraph, Capability Represent,retain,route,reconcile,orevidenceonl

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVA_TE_PRE_DA_Y_0_UNSIGNED
reference "PINK-01-P0354"
state R -> R1
node N1
representation JP(PINK-01-P0354)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 354 of 431. PRIVA TE PRE-DA Y -0 - U
```

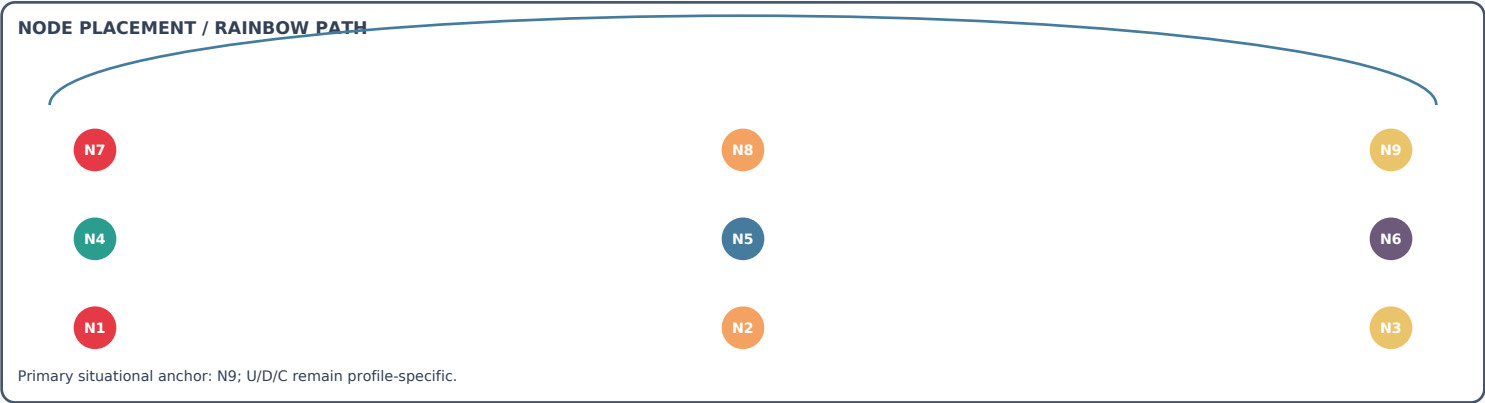


R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 355 of 431. PRIVA TE PRE-DA Y -0 - UNSIGNED REVIEW CANDIDA TE Pink Paper V - F amily / Objects 23.19 Bangel _SHEET_REVISION Construct Formula-specific expression Module MJ.PBMEF.Object.Bangel _SHEET_REVISION Namespace MJ.PBMEF.Object.Bangel _SHEET_REVISION.Day0 Declaration objectBangel _SHEET_REVISION Definition Content-addressedimmutableworkbookrevisionandconflict/mergeevidence Capability Represent,retain,route,reconcile,orevidence

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> Mj bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVA_TE_PRE_DA_Y_0_UNSIGNED
reference "PINK-01-P0355"
state R -> R1
node N1
representation JP(PINK-01-P0355)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 355 of 431. PRIVA TE PRE-DA Y -0 - U
```

R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 356 of 431. PRIVA TE PRE-DA Y -0 - UNSIGNED REVIEW CANDIDA TE Pink Paper V - F amily / Objects 23.21 JPOSMJ_PRODUCT_ENVELOPE Construct Formula-specific expression Module MJ.PBMEF.Object.JPOSMJ_PRODUCT_ENVELOPE Namespace MJ.PBMEF.Object.JPOSMJ_PRODUCT_ENVELOPE.Day0 Declaration objectJPOSMJ_PRODUCT_ENVELOPE Definition PortfolioenvelopebindingJP-originproductlogicthroughMKphysics,JOproof,andMJper...

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> Mj bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```

module MJ.Rainbow.PRIVA_TE_PRE_DA_Y_0_UNSIGNED
reference "PINK-01-P0356"
state R -> R1
node N9
representation JP(PINK-01-P0356)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 356 of 431. PRIVA TE PRE-DA Y -0 - U

```

NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source
MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 357 of 431. PRIVA TE PRE-DA Y -0 - UNSIGNED REVIEW CANDIDA TE Pink Paper V - F amily / Objects 23.23 STANDARD_CONTAINMENT_GEOMETRY_PROFILE Construct Formula-specific expression Module MJ.PBMEF.Object.STANDARD_CONTAINMENT_GEOMETRY_PROFILE Namespace MJ.PBMEF.Object.STANDARD_CONTAINMENT_GEOMETRY_PROFILE.Day0 Declaration objectSTANDARD_CONTAINMENT_GEOMETRY_PROFILE Definition Typedscale-independentrectangle/cone/umbrella/descent/EVE/

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVA_TE_PRE_DA_Y_0_UNSIGNED
reference "PINK-01-P0357"
state R -> R1
node N1
representation JP(PINK-01-P0357)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 357 of 431. PRIVA TE PRE-DA Y -0 - U
```

Node Placement / Rainbow Path



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

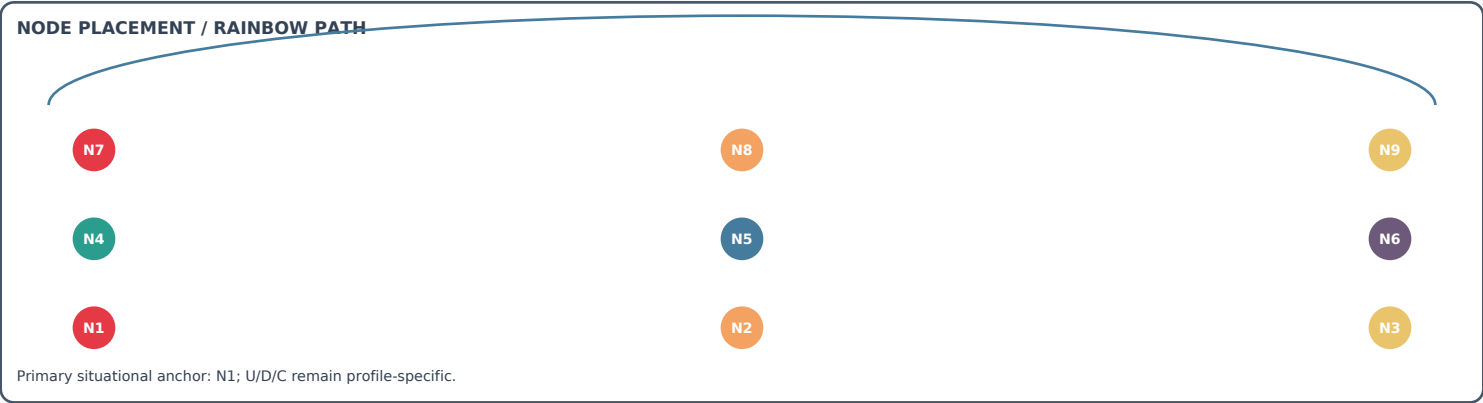
Pink source
MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 358 of 431. PRIVA TE PRE-DA Y -0 - UNSIGNED REVIEW CANDIDA TE Pink Paper V - F amily / Objects 23.25 CONTAINMENT_MODIFICATION_RECEIPT Construct Formula-specific expression Module
MJ.PBMEF.Object.CONTAINMENT_MODIFICATION_RECEIPT Namespace
MJ.PBMEF.Object.CONTAINMENT_MODIFICATION_RECEIPT.Day0 Declaration
objectCONTAINMENT_MODIFICATION_RECEIPT Definition
Recalculationandrevalidationreceiptforcommand/profile-specificgeometrychanges

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.PRIVA_TE_PRE_DA_Y_0_UNSIGNED
reference "PINK-01-P0358"
state R -> R1
node N1
representation JP(PINK-01-P0358)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 358 of 431. PRIVA TE PRE-DA Y -0 - U
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 359 of 431. PRIVA TE PRE-DA Y -0 - UNSIGNED REVIEW CANDIDA TE Pink Paper V - F amily / Objects 23.27 GAS_HEIGHT_OBSERVATION Construct Formula-specific expression Module MJ.PBMEF.Object.GAS_HEIGHT_OBSERVATION Namespace MJ.PBMEF.Object.GAS_HEIGHT_OBSERVATION.Day0 Declaration objectGAS_HEIGHT_OBSERVATION Definition Calibratedpressure/temperature/density/height/timeobservationforgas-frontreferencecalcl

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```

module MJ.Rainbow.PRIVA_TE_PRE_DA_Y_0_UNSIGNED
reference "PINK-01-P0359"
state R -> R1
node N1
representation JP(PINK-01-P0359)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 359 of 431. PRIVA TE PRE-DA Y -0 - U

```

Node Placement / Rainbow Path



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source
MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 360 of 431. PRIVA TE PRE-DA Y -0 - UNSIGNED REVIEW CANDIDA TE Pink Paper V - F amily / Objects 23.29 OUTWARD_GAP_PATH_RECEIPT Construct Formula-specific expression Module MJ.PBMEF.Object.OUTWARD_GAP_PATH_RECEIPT Namespace MJ.PBMEF.Object.OUTWARD_GAP_PATH_RECEIPT.Day0 Declaration objectOUTWARD_GAP_PATH_RECEIPT Definition JO/MKproofthattheoutletpathremainsoutsidethenonphysicalPearlreferencecirc...

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.PRIVA_TE_PRE_DA_Y_0_UNSIGNED
reference "PINK-01-P0360"
state R -> R1
node N4
representation JP(PINK-01-P0360)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 360 of 431. PRIVA TE PRE-DA Y -0 - U
```

NODE PLACEMENT / RAINBOW PATH



Primary situational anchor: N1; U/D/C remain profile-specific.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

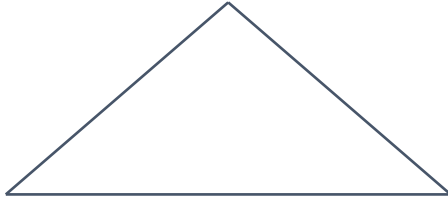
Pink source
MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page
361 of 431. PRIVA TE PRE-DA Y -0 - UNSIGNED REVIEW CANDIDA TE Pink Paper
V - F amily / Objects 23.31 CIRCULAR_REENTRY_RECEIPT Construct
Formula-specific expression Module
MJ_PBMEF.Object.CIRCULAR_REENTRY_RECEIPT Namespace
MJ_PBMEF.Object.CIRCULAR_REENTRY_RECEIPT.Day0 Declaration
ObjectCIRCULAR_REENTRY_RECEIPT Definition
Circularport,inwardangle,tangentialcomponent,continuity,andspiral-compatibilityeviden...

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVA_TE_PRE-DA_Y_0_UNSigned
reference "PINK-01-P0361"
state R -> R1
node N1
representation JP(PINK-01-P0361)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ PBMEF Pink Paper Gateway Expression and Full Lifecycle 001.pdf, page 361 of 431. PRIVA TE PRE-DA Y -0 - U
```



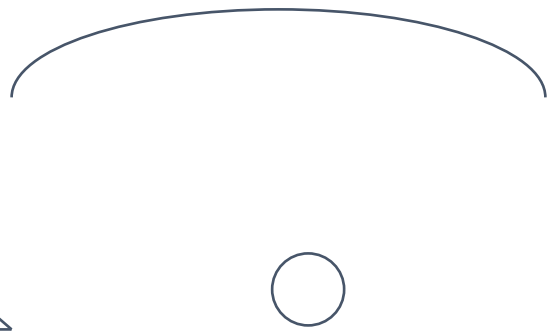
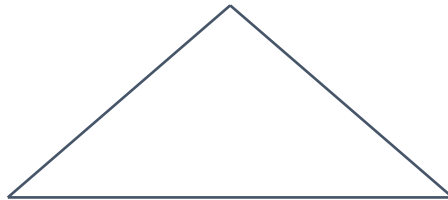
SOURCE RULE / INTENT

Pink source
 MJ.PBMEF.Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page
 362 of 431. PRIVA TE PRE-DA Y -0 - UNSIGNED REVIEW CANDIDA TE Pink Paper
 V - F amily / Objects 23.33 RESERVOIR_LAKE_BUFFER Construct
 Formula-specific expression Module
 MJ.PBMEF.Object.RESERVOIR_LAKE_BUFFER Namespace
 MJ.PBMEF.Object.RESERVOIR_LAKE_BUFFER.Day0 Declaration
 objectRESERVOIR_LAKE_BUFFER Definition
 Boundedpost-containmentbuffercandidateforretention,redistribution,andreceiptre-en...

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

```
module MJ.Rainbow.PRIVA_TE_PRE-DA_Y_0_UNSIGNED
reference "PINK-01-P0362"
state R -> R1
node N1
representation JP(PINK-01-P0362)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ PBMEF Pink Paper Gateway Expression and Full Lifecycle 001.pdf, page 362 of 431. PRIVA TE PRE-DA Y -0 - U
```

NODE PLACEMENT / RAINBOW PATH



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source

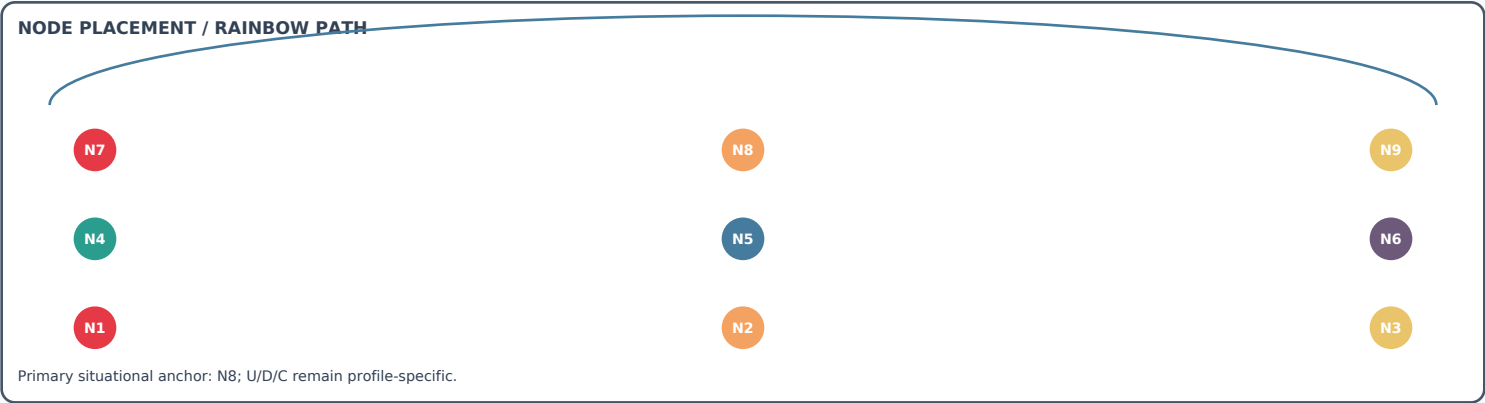
MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 363 of 431. PRIVA TE PRE-DA Y -0 - UNSIGNED REVIEW CANDIDA TE Pink Paper V - F amily / Objects 23.35 OUTWARD_GAP_ARC Construct Formula-specific expression Module MJ.PBMEF.Object.OUTWARD_GAP_ARC Namespace MJ.PBMEF.Object.OUTWARD_GAP_ARC.Day0 Declaration objectOUTWARD_GAP_ARC Definition Outward-facing angular reference through which the outlet clears then on physical Pearl reference Capability Represent, retain, route, reconcile, override

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVA_TE_PRE_DA_Y_0_UNSIGNED
reference "PINK-01-P0363"
state R -> R1
node N1
representation JP(PINK-01-P0363)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ PBMEF Pink Paper Gateway Expression and Full Lifecycle 001.pdf, page 363 of 431. PRIVA TE PRE-DA Y -0 - U
```

R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 364 of 431. PRIVA TE PRE-DA Y -0 - UNSIGNED REVIEW CANDIDA TE Pink Paper V - F amily / Objects 23.37 CIRCULAR_REENTRY_PORT Construct Formula-specific expression Module MJ.PBMEF.Object.CIRCULAR_REENTRY_PORT Namespace MJ.PBMEF.Object.CIRCULAR_REENTRY_PORT.Day0 Declaration objectCIRCULAR_REENTRY_PORT Definition Circularinward-angledportcandidatesupplyingmeasuredradialandtangentialre-entrycompo

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> Mj bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVA_TE_PRE_DA_Y_0_UNSIGNED
reference "PINK-01-P0364"
state R -> R1
node N8
representation JP(PINK-01-P0364)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 364 of 431. PRIVA TE PRE-DA Y -0 - U
```

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source

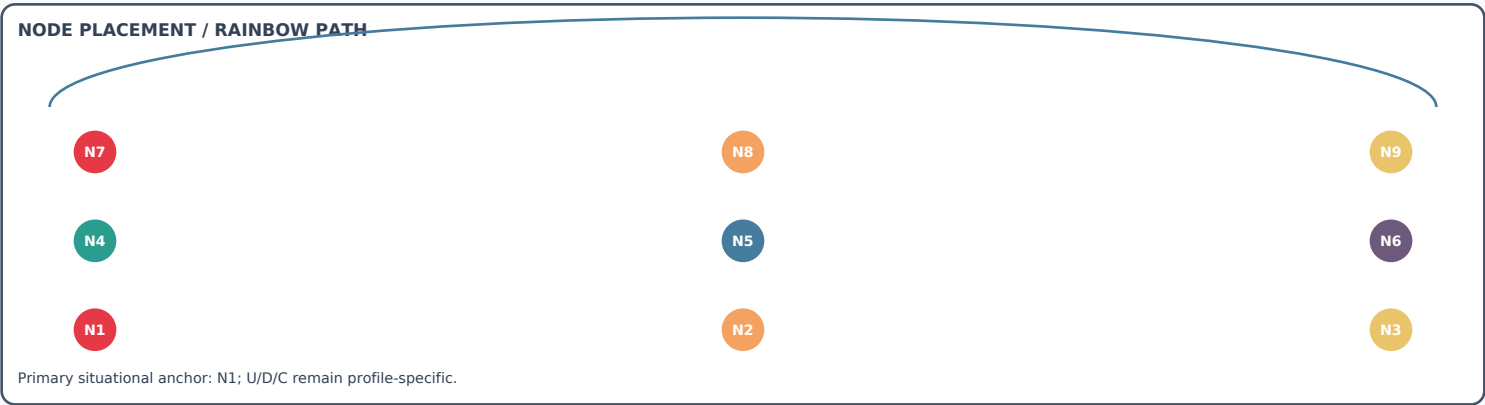
MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 365 of 431. PRIVA TE PRE-DA Y -0 - UNSIGNED REVIEW CANDIDA TE Pink Paper V - F amily / Objects 23.39 PERSPECTIVE_FRICTION_RECEIPT Construct Formula-specific expression Module MJ.PBMEF.Object.PERSPECTIVE_FRICTION_RECEIPT Namespace MJ.PBMEF.Object.PERSPECTIVE_FRICTION_RECEIPT.Day0 Declaration objectPERSPECTIVE_FRICTION_RECEIPT Definition Separatescoordinate-transformresidual,physicaldissipation,andinformationfrict...

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVA_TE_PRE_DA_Y_0_UNSIGNED
reference "PINK-01-P0365"
state R -> R1
node N1
representation JP(PINK-01-P0365)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 365 of 431. PRIVA TE PRE-DA Y -0 - U
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 366 of 431. MJ-PBMEFPinkPaper-VolumeVI ProductManifestations,White-PaperLineage,andVerificationCrosswalk MichaelBangel-AuthorandArchitect August2026

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.MJ_PBMEFPinkPaper_VolumeVI_P
reference "PINK-01-P0366"
state R -> R1
node N1
representation JP(PINK-01-P0366)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 366 of 431. MJ-PBMEFPinkPaper-Volume
```

Node Placement / Rainbow Path

R

R1

N1

U

D

C

OUT

Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 367 of 431. Contents 1 Product gateway verification 5 2 MJ Physics Based Measurement Engineering Framework -PBMEF-CORE 6 2.1 Applicationandlife-cyclepotential6 3 Bangel Governed Measurement Language -Bangel -LANGUAGE 7 3.1 Applicationandlife-cyclepotential7 4 Elsa Deterministic Semantic Recovery -ELSA-SEMANT

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

module MJ.Rainbow.Contents_1_Product_gateway_v
reference "PINK-01-P0367"
state R -> R1
node N1
representation JP(PINK-01-P0367)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 367 of 431. Contents 1 Product gatew

NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source
 MJ_PBMF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page
 368 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper VI
 - Products / White Papers 17SHIVAS Internal Settlement Reflection
 -SHIVAS-INTERNAL 21 17.1Applicationandlife-cyclepotential
21 18Shiva Crypto External-Market Candidate
 -SHIVA-CRYPTO 22 18.1Applicationandlife-cyclepotential
22 19Shiva Exch

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```

module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSigned_R
reference "PINK-01-P0368"
state R -> R1
node N3
representation JP(PINK-01-P0368)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ PBMEF Pink Paper Gateway Expression and Full Lifecycle 001.pdf, page 368 of 431. PRIVATE PRE-DAY-0 - UNSI

```

Node Placement / Rainbow Path

R

R1

N1

U

D

C

OUT

Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

Source Rule / Intent

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Pink source
MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 369 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper VI - Products / White Papers 30.20 CHI—MJManifestationWhitePaper-MJ-PBMEF-FAMILY-WP-2044 30.21
WATER—MJManifestationWhitePaper- MJ-PBMEF-FAMILY-WP-2145 30.22 MJPhysicsBasedMeasurementEngineeringFramework-MJ-PBMEF-PRODUCT-WP-01 . . .45 30.23
Bangel GovernedMeasurementLanguage-MJ-PBMEF-PRODUCT-WP-02 .

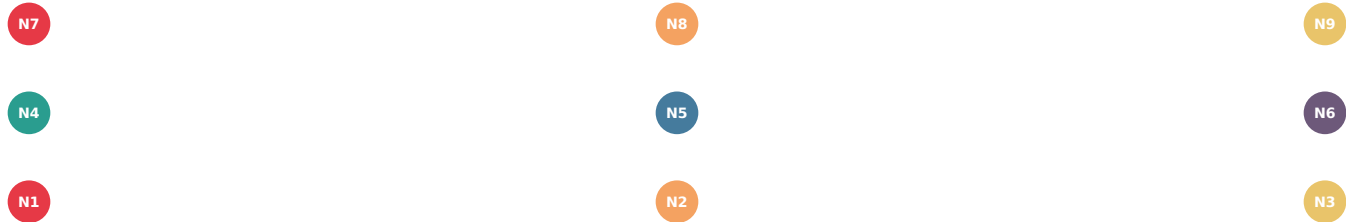
Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0369"
state R -> R1
node N1
representation JP(PINK-01-P0369)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 369 of 431. PRIVATE PRE-DAY-0 - UNSI

DE PLACEMENT / RAINBOW PATH



Primary situational anchor: N1; U/D/C remain profile-specific.

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Pink source
 MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page
 370 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper VI
 - Products / White Papers Claims ceiling
 Thisdocumentisaprivatepre-Day-0reviewandverificationcandidate.
 Itauthenticatesnopri-vate key and creates no physical validation, physical
 operation authority, product certification, external regulatory authority,
 production deployment, financial-product launch, token issuance,
 AIntegration, or physical-coordinate appro

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0370"
state R -> R1
node N1
representation JP(PINK-01-P0370)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ PBMEF Pink Paper Gateway Expression and Full Lifecycle.001.pdf, page 370 of 431. PRIVATE PRE-DAY-0 - UNSI
```

Node Placement / Rainbow Path

R

R1

N1

U

D

C

OUT

Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

Source Rule / Intent

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Pink source
MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 371 of 431. Chapter 1 Product gateway verification 5

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

module MJ.Rainbow.Chapter_1_Product_gateway_ve
reference "PINK-01-P0371"
state R -> R1
node N1
representation JP(PINK-01-P0371)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 371 of 431. Chapter 1 Product gatewa

NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 372 of 431. Chapter 2 MJ Physics Based Measurement Engi- neering Framework -PBMEF-CORE Construct Formula-specific expression Module MJ.PBMEF.Product.PBMEF-CORE Namespace MJ.PBMEF.Product.PBMEF-CORE.Day0 Import Manifest,productregister,applicableformulas,familyandobjectdefinitions Declaration productPBMEF-CORE Definition Integratepurpose,mathematics,physics,verification,safety,resourcerouting,accounting,financial	
---	--

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_2_MJ_Physics_Based_M
reference "PINK-01-P0372"
state R -> R1
node N7
representation JP(PINK-01-P0372)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ PBMEF Pink Paper Gateway Expression and Full Lifecycle 001.pdf, page 372 of 431. Chapter 2 MJ Physics Bas
```

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

Source Rule / Intent

Pink source

MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 373 of 431. Chapter 3 Bangel Governed Measurement Lan- guage

-Bangel -LANGUAGE Construct Formula-specific expression Module

MJ.PBMEF.Product.Bangel -LANGUAGE Namespace

MJ.PBMEF.Product.Bangel -LANGUAGE.Day0 Import

Manifest,productregister,applicableformulas,familyandobjectdefinitions

Declaration productBangel -LANGUAGE Definition

Expresshumanpurpose,typedmeasurements,formulas,evidence,andcommandpathwa...

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_3_Bangel_Governed_Me
reference "PINK-01-P0373"
state R -> R1
node N1
representation JP(PINK-01-P0373)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 373 of 431. Chapter 3 Bangel Governe
```

Node Placement / Rainbow Path



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 374 of 431. Chapter 4 Elsa Deterministic Semantic Recovery - ELSA-SEMANTICS Construct Formula-specific expression Module MJ.PBMEF.Product.ELSA-SEMANTICS Namespace MJ.PBMEF.Product.ELSA-SEMANTICS.Day0 Import Manifest,productregister,applicableformulas,familyandobjectdefinitions Declaration productELSA-SEMANTICS Definition Recoverandpreserveddeclaredmeaningwithoutautonomousinferenceorauthori...

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_4_Elsa_Deterministic
reference "PINK-01-P0374"
state R -> R1
node N1
representation JP(PINK-01-P0374)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 374 of 431. Chapter 4 Elsa Deterministic Semantic Recovery - ELSA-SEMANTICS Construct Formula-specific expression Module
```

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source

MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 375 of 431. Chapter 5 JP Mathematical and Architectural Canon -JP-CANON Construct Formula-specific expression Module MJ.PBMEF.Product.JP-CANON Namespace MJ.PBMEF.Product.JP-CANON.Day0 Import Manifest,productregister,applicableformulas,familyandobjectdefinitions Declaration productJP-CANON Definition Representequations,algorithms,CAPOs,topology,products,andproofs. Capability Reference,simulation,implementationcandidate,orevidence

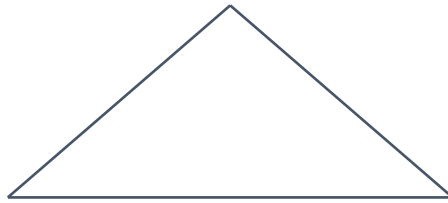
PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_5_JP_Mathematical_an
reference "PINK-01-P0375"
state R -> R1
node N1
representation JP(PINK-01-P0375)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 375 of 431. Chapter 5 JP Mathematica
```

NODE PLACEMENT / RAINBOW PATH



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source MJ.PBMEF.Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 376 of 431. Chapter 6 Mika/MK Physics Modulator System - MK-PHYSICS Construct Formula-specific expression Module MJ.PBMEF.Product.MK-PHYSICS Namespace MJ.PBMEF.Product.MK-PHYSICS.Day0 Import Manifest,productregister,applicableformulas,familyandobjectdefinitions Declaration productMK-PHYSICS Definition Createphysicsrepresentationsandverifyunits,conservation,boundaries,scale,andevidence Capability Reference,simulation,imp	
---	--

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_6_Mika_MK_Physics_Mo
reference "PINK-01-P0376"
state R -> R1
node N2
representation JP(PINK-01-P0376)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ PBMEF Pink Paper Gateway Expression and Full Lifecycle 001.pdf, page 376 of 431. Chapter 6 Mika/MK Physics
```

Node Placement / Rainbow Path



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source
MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 377 of 431. Chapter 7 JO Deterministic Proof and Runtime - JO-RUNTIME
Construct Formula-specific expression Module MJ.PBMEF.Product.JO-RUNTIME
Namespace MJ.PBMEF.Product.JO-RUNTIME.Day0 Import
Manifest,productregister,applicableformulas,familyandobjectdefinitions
Declaration productJO-RUNTIME Definition
Verifytypes,units,authority,physics,tests,evidence,andboundedexecution.
Capability Reference,simulation,implementationcandidate

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.Chapter_7_JO_Deterministic_P
reference "PINK-01-P0377"
state R -> R1
node N1
representation JP(PINK-01-P0377)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 377 of 431. Chapter 7 JO Determinist
```

NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source
 MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page
 378 of 431. Chapter 8 MJOS Operating Substrate - MJOS- SUBSTRATE Construct
 Formula-specific expression Module MJ_PBMEF.Product.MJOS-SUBSTRATE
 Namespace MJ_PBMEF.Product.MJOS-SUBSTRATE.Day0 Import
 Manifest,productregister,applicableformulas,familyandobjectdefinitions
 Declaration productMJOS-SUBSTRATE Definition
 Provideisolatedresources,memory,storage,network,scheduling,andcontinuityunderMJlease
 Capability Reference,simulation,i

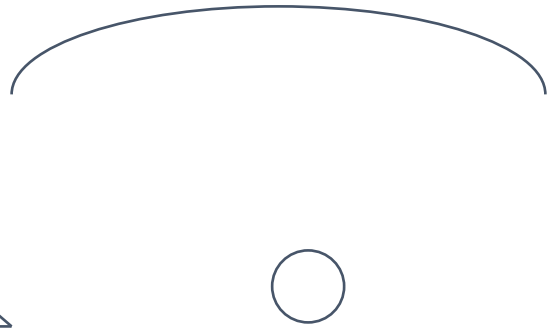
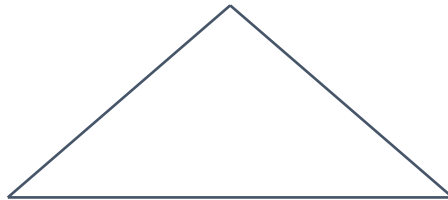
PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_8_MJOS_Operating_Sub
reference "PINK-01-P0378"
state R -> R1
node N1
representation JP(PINK-01-P0378)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ PBMEF Pink Paper Gateway Expression and Full Lifecycle 001.pdf, page 378 of 431. Chapter 8 MJOS Operating
```

NODE PLACEMENT / RAINBOW PATH



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

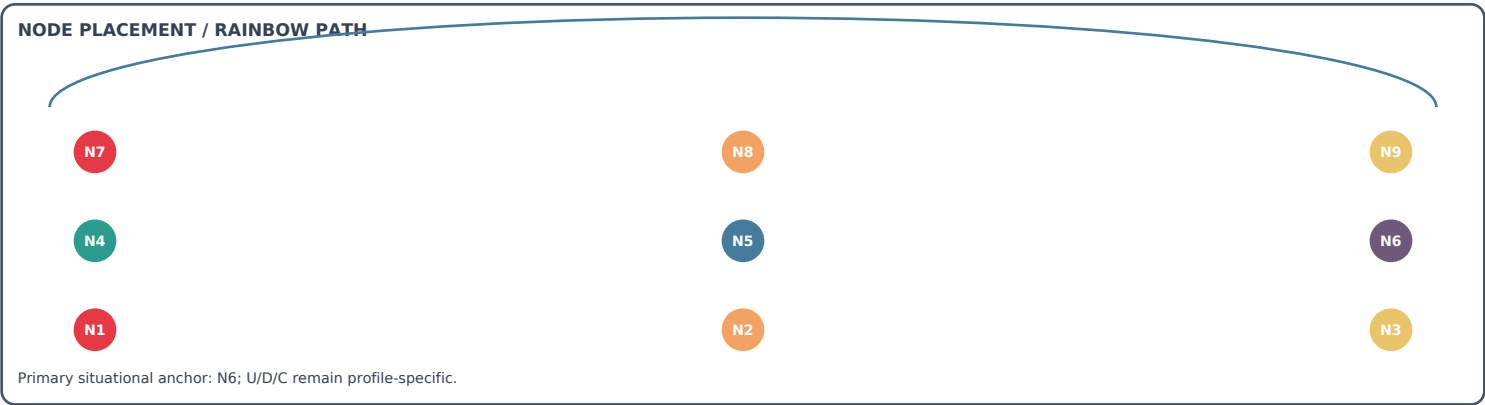
Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 379 of 431. Chapter 9 JP Semiconductor Phone Battery and OS Candidate -JP-SC-PHONE Construct Formula-specific expression Module MJ.PBMEF.Product.JP-SC-PHONE Namespace MJ.PBMEF.Product.JP-SC-PHONE.Day0 Import Manifest,productregister,applicableformulas,familyandobjectdefinitions Declaration productJP-SC-PHONE Definition Exploresemiconductor-scalestaticintake,powerwake,solarassist,battery,andoperating-syst	
---	--

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_9_JP_Semiconductor_P
reference "PINK-01-P0379"
state R -> R1
node N1
representation JP(PINK-01-P0379)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ PBMEF Pink Paper Gateway Expression and Full Lifecycle 001.pdf, page 379 of 431. Chapter 9 JP Semiconduct
```

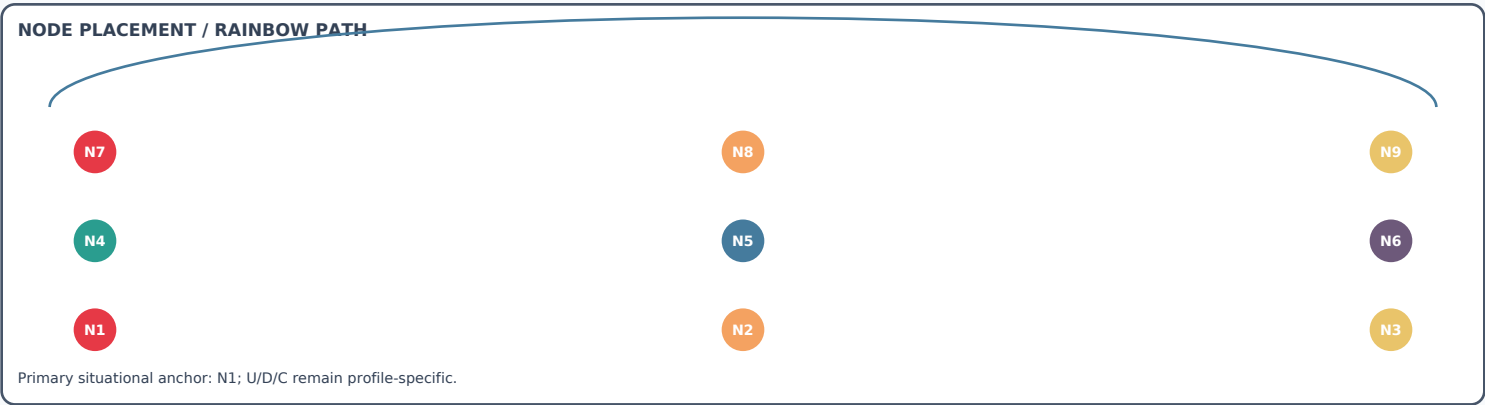



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 380 of 431. Chapter 10 JP Large-Scale Boating Power Candi- date -JP-LS-BOAT Construct Formula-specific expression Module MJ.PBMEF.Product.JP-LS-BOAT Namespace MJ.PBMEF.Product.JP-LS-BOAT.Day0 Import Manifest,productregister,applicableformulas,familyandobjectdefinitions Declaration productJP-LS-BOAT Definition Explorelarge-scalestaticintake,solarinitiation,powerbus,containment,andmarinepowerinter Capability Reference,simul

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_10_JP_Large_Scale_Bo
reference "PINK-01-P0380"
state R -> R1
node N6
representation JP(PINK-01-P0380)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 380 of 431. Chapter 10 JP Large-Scale Boating Power Candi- date -JP-LS-BOAT
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 381 of 431. Chapter 11 JP Peaceful High-Energy Propulsion Research Candidate - JP-PEACEFUL- PROPULSION Construct Formula-specific expression Module MJ.PBMEF.Product.JP-PEACEFUL-PROPULSION Namespace MJ.PBMEF.Product.JP-PEACEFUL-PROPULSION.Day0 Import Manifest,productregister,applicableformulas,familyandobjectdefinitions Declaration productJP-PEACEFUL-PROPULSION Definition Explorepeacefulpropulsionmeasurementandcontrolundernon-wea

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> Mj bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_11_JP_Peaceful_High_
reference "PINK-01-P0381"
state R -> R1
node N1
representation JP(PINK-01-P0381)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 381 of 431. Chapter 11 JP Peaceful H
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 382 of 431. Chapter 12 Sister Predictive Containment System - SISTER-CONTAINMENT Construct Formula-specific expression Module MJ.PBMEF.Product.SISTER-CONTAINMENT Namespace MJ.PBMEF.Product.SISTER-CONTAINMENT.Day0 Import Manifest,productregister,applicableformulas,familyandobjectdefinitions Declaration productSISTER-CONTAINMENT Definition Predictdemand,allocatebuffers,detectanomalies,andstageoverflowinboundedumbrell...

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> Mj bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_12_Sister_Predictive
reference "PINK-01-P0382"
state R -> R1
node N1
representation JP(PINK-01-P0382)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 382 of 431. Chapter 12 Sister Predic
```

Node Placement / Rainbow Path



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

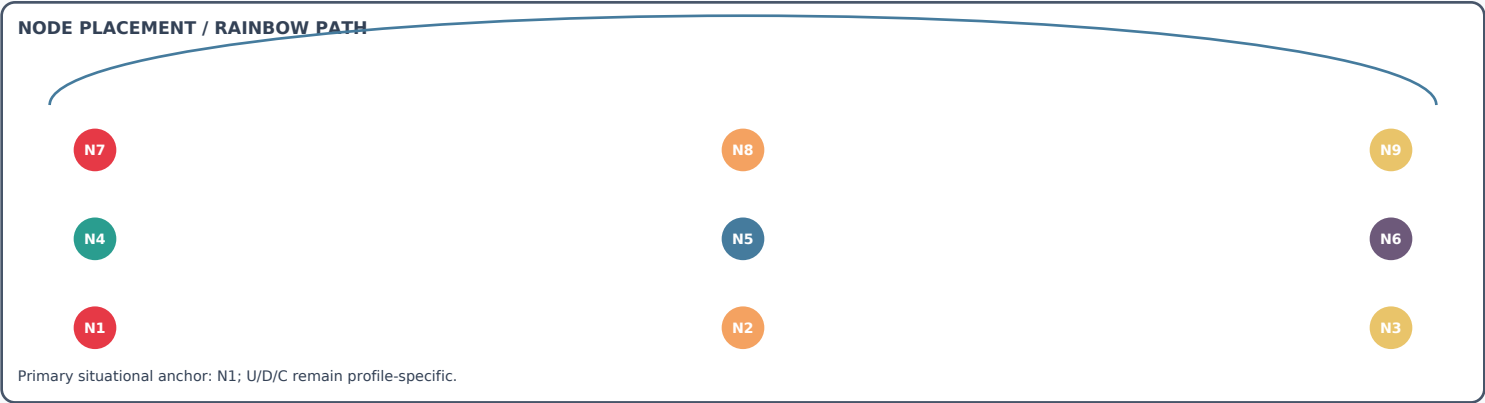
Pink source
MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 383 of 431. Chapter 13 EVE Variance Screen and Egress Ac- counting
-EVE-SCREEN Construct Formula-specific expression Module
MJ.PBMEF.Product.EVE-SCREEN Namespace
MJ.PBMEF.Product.EVE-SCREEN.Day0 Import
Manifest,productregister,applicableformulas,familyandobjectdefinitions
Declaration productEVE-SCREEN Definition
Accountforvariance,evaporation,leakage,capture,andnaturalegresswithoutsilentlo...

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.Chapter_13_EVE_Variance_Scre
reference "PINK-01-P0383"
state R -> R1
node N1
representation JP(PINK-01-P0383)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 383 of 431. Chapter 13 EVE Variance
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 384 of 431. Chapter 14 Angels Safety and Corrective Command System -ANGELS-SAFETY Construct Formula-specific expression Module MJ.PBMEF.Product.ANGELS-SAFETY Namespace MJ.PBMEF.Product.ANGELS-SAFETY.Day0 Import Manifest,productregister,applicableformulas,familyandobjectdefinitions Declaration productANGELS-SAFETY Definition Providedomain-boundedtelemetry,hold,denial,isolation,andcorrectiveprotoco...

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> Mj bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_14_Angels_Safety_and
reference "PINK-01-P0384"
state R -> R1
node N1
representation JP(PINK-01-P0384)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 384 of 431. Chapter 14 Angels Safety
```

NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source
 MJ.PBMEF.Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page
 385 of 431. Chapter 15 Mermaid Accounting and Reconciliation System
 -MERMAID-RECON Construct Formula-specific expression Module
 MJ.PBMEF.Product.MERMAID-RECON Namespace
 MJ.PBMEF.Product.MERMAID-RECON.Day0 Import
 Manifest,productregister,applicableformulas,familyandobjectdefinitions
 Declaration productMERMAID-RECON Definition
 Maintainbalances,custodyevidence,exposure,taxlots,statements,andreconciliati...

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

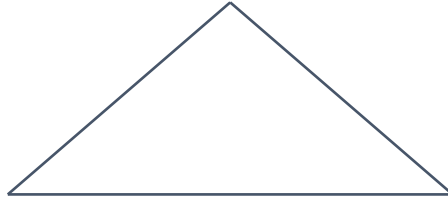
CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_15_Mermaid_Accountin
reference "PINK-01-P0385"
state R -> R1
node N1
representation JP(PINK-01-P0385)
physics MK(classify, units, boundary, uncertainty)
verify JO(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 385 of 431. Chapter 15 Mermaid Accountin
```

NODE PLACEMENT / RAINBOW PATH



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.



R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

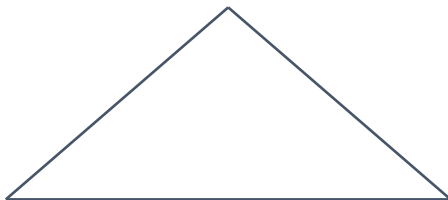
Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 386 of 431. Chapter 16 Shiva Dual Financial Rails -SHIVA-RAILS Construct Formula-specific expression Module MJ.PBMEF.Product.SHIVA-RAILS Namespace MJ.PBMEF.Product.SHIVA-RAILS.Day0 Import Manifest,productregister,applicableformulas,familyandobjectdefinitions Declaration productSHIVA-RAILS Definition Separatestability/cashfunctionsfrominvestmentandcryptoriskwhilepreservingliquidity-first Capability Reference,simulation,imp	
---	--

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_16_Shiva_Dual_Financ
reference "PINK-01-P0386"
state R -> R1
node N1
representation JP(PINK-01-P0386)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ PBMEF Pink Paper Gateway Expression and Full Lifecycle 001.pdf, page 386 of 431. Chapter 16 Shiva Dual Fi
```



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Pink source
MJ.PBMEF.Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page
387 of 431. Chapter 17 SHIVAS Internal Settlement Reflection -
SHIVAS-INTERNAL Construct Formula-specific expression Module
MJ.PBMEF.Product.SHIVAS-INTERNAL Namespace
MJ.PBMEF.Product.SHIVAS-INTERNAL.Day0 Import
Manifest,productregister,applicableformulas,familyandobjectdefinitions
Declaration productSHIVAS-INTERNAL Definition
Representinternalcapitalreflectionswithoutminting,redemption,publicoffer,orvalueguarant

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

```
module MJ.Rainbow.Chapter_17_SHIVAS_Internal_S
reference "PINK-01-P0387"
state R -> R1
node N1
representation JP(PINK-01-P0387)
physics MK(classify, units, boundary, uncertainty)
verify JO(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ PBMEF Pink Paper Gateway Expression and Full Lifecycle 001.pdf, page 387 of 431. Chapter 17 SHIVAS Intern
```


NODE PLACEMENT / RAINBOW PATH



Primary situational anchor: N5; U/D/C remain profile-specific.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source
 MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page
 388 of 431. Chapter 18 Shiva Crypto External-Market Candi- date
 -SHIVA-CRYPTO Construct Formula-specific expression Module
 MJ.PBMEF.Product.SHIVA-CRYPTO Namespace
 MJ.PBMEF.Product.SHIVA-CRYPTO.Day0 Import
 Manifest,productregister,applicableformulas,familyandobjectdefinitions
 Declaration productSHIVA-CRYPTO Definition
 Modelaseparatelygovernedexternalcryptorailssubjecttofullclassificationandauthorizati...

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_18_Shiva_Crypto_Ext
reference "PINK-01-P0388"
state R -> R1
node N5
representation JP(PINK-01-P0388)
physics MK(classify, units, boundary, uncertainty)
verify JO(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 388 of 431. Chapter 18 Shiva Crypto
```

Node Placement / Rainbow Path



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 389 of 431. Chapter 19 Shiva Exchange Rule Reference -SHIVA- EXCHANGE Construct Formula-specific expression Module MJ.PBMEF.Product.SHIVA-EXCHANGE Namespace MJ.PBMEF.Product.SHIVA-EXCHANGE.Day0 Import Manifest,productregister,applicableformulas,familyandobjectdefinitions Declaration productSHIVA-EXCHANGE Definition Modeltransparentprice-time,custody,audit,tax,andtransferruleswithoutoperatingmark...

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.Chapter_19_Shiva_Exchange_Ru
reference "PINK-01-P0389"
state R -> R1
node N1
representation JP(PINK-01-P0389)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 389 of 431. Chapter 19 Shiva Exchange Rule Reference -SHIVA- EXCHANGE
```

Node Placement / Rainbow Path



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 390 of 431. Chapter 20 Moana Governed Browser - MOANA- BROWSER Construct Formula-specific expression Module MJ.PBMEF.Product.MOANA-BROWSER Namespace MJ.PBMEF.Product.MOANA-BROWSER.Day0 Import Manifest,productregister,applicableformulas,familyandobjectdefinitions Declaration productMOANA-BROWSER Definition Presentgovernedapplications,evidence,holds,anduncertainty. Capabil...

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_20_Moana_Governed_Br
reference "PINK-01-P0390"
state R -> R1
node N1
representation JP(PINK-01-P0390)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 390 of 431. Chapter 20 Moana Governe
```

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

Source Rule / Intent

Pink source

MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 391 of 431. Chapter 21 Aviator Organizational Workspace - AVIATOR-WORKSPACE Construct Formula-specific expression Module MJ.PBMEF.Product.AVIATOR-WORKSPACE Namespace MJ.PBMEF.Product.AVIATOR-WORKSPACE.Day0 Import Manifest,productregister,applicableformulas,familyandobjectdefinitions Declaration productAVIATOR-WORKSPACE Definition Organizespaces,projects,decisions,knowledge,members,roles,andcapabiliti...

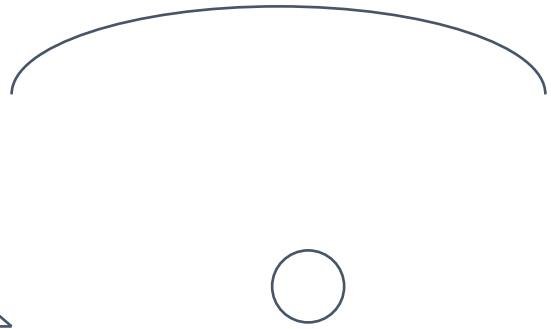
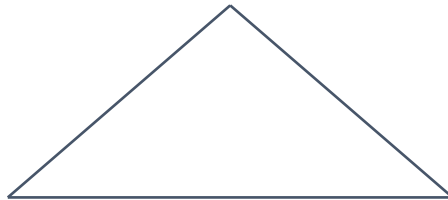
Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

module MJ.Rainbow.Chapter_21_Aviator_Organizat
reference "PINK-01-P0391"
state R -> R1
node N1
representation JP(PINK-01-P0391)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 391 of 431. Chapter 21 Aviator Organ

NODE PLACEMENT / RAINBOW PATH



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source
 MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page
 392 of 431. Chapter 22 Lecanto Truthful Visualization - LECANTO-VISUAL
 Construct Formula-specific expression Module
 MJ_PBMEF.Product.LECANTO-VISUAL Namespace
 MJ_PBMEF.Product.LECANTO-VISUAL.Day0 Import
 Manifest,productregister,applicableformulas,familyandobjectdefinitions
 Declaration productLECANTO-VISUAL Definition
 Displaysystemtruth,provenance,topology,uncertainty,andevidence. Capabil...

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_22_Lecanto_Truthful_
reference "PINK-01-P0392"
state R -> R1
node N9
representation JP(PINK-01-P0392)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ PBMEF Pink Paper Gateway Expression and Full Lifecycle 001.pdf, page 392 of 431. Chapter 22 Lecanto Truth
```

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

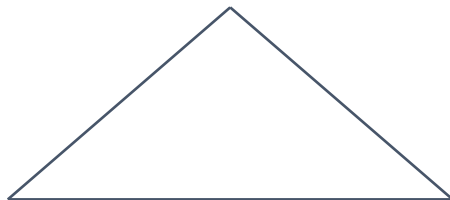
R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 393 of 431. Chapter 23 Elsa Governed Marketplace Reference - ELSA-MARKETPLACE Construct Formula-specific expression Module MJ.PBMEF.Product.ELSA-MARKETPLACE Namespace MJ.PBMEF.Product.ELSA-MARKETPLACE.Day0 Import Manifest,productregister,applicableformulas,familyandobjectdefinitions Declaration productELSA-MARKETPLACE Definition Coordinatessemanticlistings,workflow,accounting,execution,andresourceevidencewithoutli

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_23_Elsa_Governed_Mar
reference "PINK-01-P0393"
state R -> R1
node N1
representation JP(PINK-01-P0393)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 393 of 431. Chapter 23 Elsa Governed
```



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Pink source
MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page
394 of 431. Chapter 24 Shekina Distributed Continuity - SHEKINA-CONTINUITY
Construct Formula-specific expression Module
MJ.PBMEF.Product.SHEKINA-CONTINUITY Namespace
MJ.PBMEF.Product.SHEKINA-CONTINUITY.Day0 Import
Manifest,productregister,applicableformulas,familyandobjectdefinitions
Declaration productSHEKINA-CONTINUITY Definition
Modelboundedreplicas,failover,continuity,andplacementevidence. Capabil...

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

```
module MJ.Rainbow.Chapter_24_Shekina_Distribut
reference "PINK-01-P0394"
state R -> R1
node N1
representation JP(PINK-01-P0394)
physics MK(classify, units, boundary, uncertainty)
verify JO(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ PBMEF Pink Paper Gateway Expression and Full Lifecycle 001.pdf, page 394 of 431. Chapter 24 Shekina Distr
```

Node Placement / Rainbow Path

R

R1

N1

U

D

C

OUT

Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

Source Rule / Intent

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Pink source
MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 395 of 431. Chapter 25 Pearl Hypothetical Simulation and Information-Retention System -PEARL- CONTAINMENT Construct Formula-specific expression Module MJ.PBMEF.Product.PEARL-CONTAINMENT Namespace MJ.PBMEF.Product.PEARL-CONTAINMENT.Day0 Import Manifest,productregister,applicableformulas,familyandobjectdefinitions Declaration productPEARL-CONTAINMENT Definition Acquire,retain,replay,andcomparevariancesimulationsandtransfer/regener

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.Chapter_25_Pearl_Hypothetica
reference "PINK-01-P0395"
state R -> R1
node N1
representation JP(PINK-01-P0395)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 395 of 431. Chapter 25 Pearl Hypothe
```


Node Placement / Rainbow Path

Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

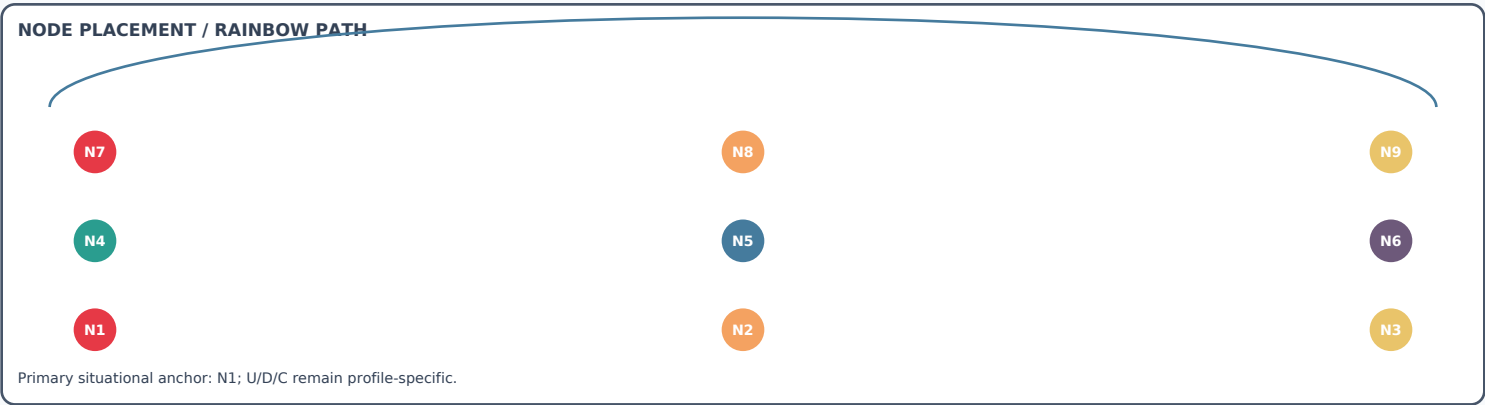
Pink source
MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 396 of 431. Chapter 26 Bangel Spreadsheets - Bangel - SPREADSHEETS
Construct Formula-specific expression Module
MJ.PBMEF.Product.Bangel -SPREADSHEETS Namespace
MJ.PBMEF.Product.Bangel -SPREADSHEETS.Day0 Import
Manifest,productregister,applicableformulas,familyandobjectdefinitions
Declaration productBangel -SPREADSHEETS Definition
Providegovernedspreadsheet-likeoperationalmodelingthroughtypedmeasurementcells,im

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

module MJ.Rainbow.Chapter_26_Bangel _Spreadshee
reference "PINK-01-P0396"
state R -> R1
node N4
representation JP(PINK-01-P0396)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 396 of 431. Chapter 26 Bangel Spread



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 397 of 431. Chapter 27 JPOSMJ Product Portfolio Envelope - JPOSMJ-PORTFOLIO Construct Formula-specific expression Module MJ.PBMEF.Product.JPOSMJ-PORTFOLIO Namespace MJ.PBMEF.Product.JPOSMJ-PORTFOLIO.Day0 Import Manifest,productregister,applicableformulas,familyandobjectdefinitions Declaration productJPOSMJ-PORTFOLIO Definition BindeveryJP-originproductcandidatesthroughMKphysicsrepresentation,JOverification,partici

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> Mj bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_27_JPOSMJ_Product_Po
reference "PINK-01-P0397"
state R -> R1
node N1
representation JP(PINK-01-P0397)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 397 of 431. Chapter 27 JP0SMJ Produc
```

Node Placement / Rainbow Path



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

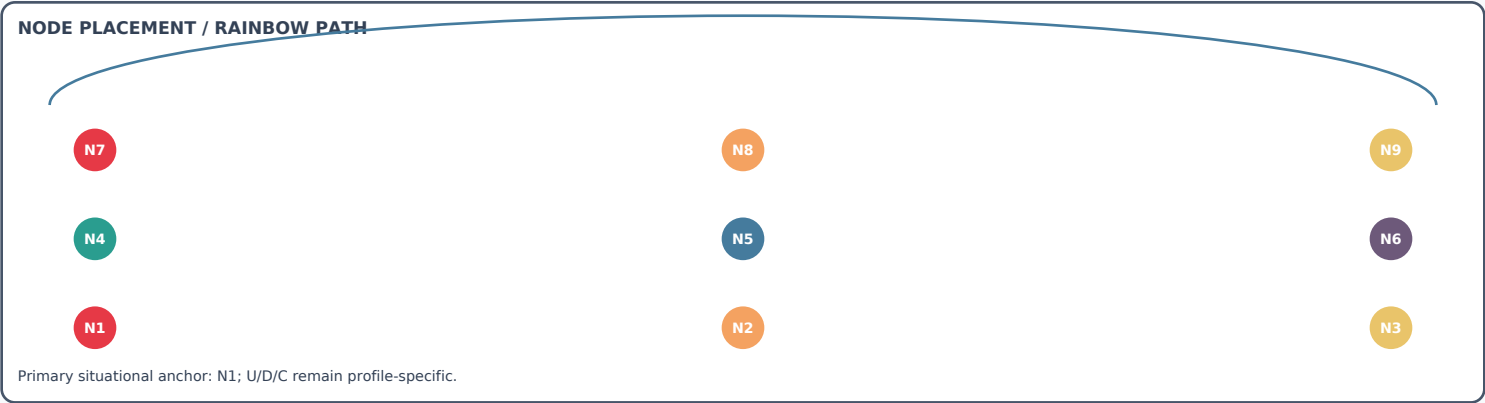
R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 398 of 431. Chapter 28 MJ Standard Containment Geometry and Reference Gas Model - STANDARD- CONTAINMENT-GEOMETRY Construct Formula-specific expression Module MJ.PBMEF.Product.STANDARD-CONTAINMENT-GEOMETRY Namespace MJ.PBMEF.Product.STANDARD-CONTAINMENT-GEOMETRY.Day0 Import Manifest,productregister,applicableformulas,familyandobjectdefinitions Declaration productSTANDARD-CONTAINMENT-GEOMETRY Definition Provideascale-independentre

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.Chapter_28_MJ_Standard_Conta
reference "PINK-01-P0398"
state R -> R1
node N1
representation JP(PINK-01-P0398)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 398 of 431. Chapter 28 MJ Standard C
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 399 of 431. Chapter 29 MJ Reservoir Collection, Lake Buffer, and Spiral-Compatible Re-entry - RESERVOIR-COLLECTION-MODULATION Construct Formula-specific expression Module MJ.PBMEF.Product.RESERVOIR-COLLECTION-MODULATION Namespace MJ.PBMEF.Product.RESERVOIR-COLLECTION-MODULATION.Day0 Import Manifest,productregister,applicableformulas,familyandobjectdefinitions Declaration productRESERVOIR-COLLECTION-MODULATION Definition Modelthe

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> Mj bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```

module MJ.Rainbow.Chapter_29_MJ_Reservoir_Coll
reference "PINK-01-P0399"
state R -> R1
node N1
representation JP(PINK-01-P0399)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 399 of 431. Chapter 29 MJ Reservoir

```

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source
MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 400 of 431. Chapter 30 Registered white-paper verification crosswalk 34

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_30_Registered_white_
reference "PINK-01-P0400"
state R -> R1
node N8
representation JP(PINK-01-P0400)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 400 of 431. Chapter 30 Registered wh
```

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source

MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 401 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper VI - Products / White Papers 30.1 MJ — MJ Manifestation White Paper -MJ-PBMEF-FAMILY-WP-01 Construct Formula-specific expression Module MJ.PBMEF.WhitePaper.MJ-PBMEF-FAMILY-WP-01 Namespace MJ.PBMEF.Document.MJ-PBMEF-FAMILY-WP-01 Import whitepapers/family/01-mj.md Declaration whitepaperMJ-PBMEF-FAMILY-WP-01 Definition Projectroot,founder-governedauthorityandfinal

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R

reference "PINK-01-P0401"

state R -> R1

node N1

representation JP(PINK-01-P0401)

physics MK(classify, units, boundary, uncertainty)

verify J0(types, evidence, receipts)

if all_required_gates == PASS:

MJ.permit -> R2 -> bounded_output

else:

HOLD | FAIL_TECHNICAL | DENY

Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 401 of 431. PRIVATE PRE-DAY-0 - UNSI

NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source
MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 403 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper VI - Products / White Papers 30.5 Mika / MK — MJ Manifestation White Paper -MJ-PBMEF-FAMILY- WP-05 Construct Formula-specific expression Module MJ.PBMEF.WhitePaper.MJ-PBMEF-FAMILY-WP-05 Namespace MJ.PBMEF.Document.MJ-PBMEF-FAMILY-WP-05 Import whitepapers/family/05-mk.md Declaration whitepaperMJ-PBMEF-FAMILY-WP-05 Definition PhysicsModulatorSystemfordimensional,

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0403"
state R -> R1
node N1
representation JP(PINK-01-P0403)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 403 of 431. PRIVATE PRE-DAY-0 - UNSI
```


Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

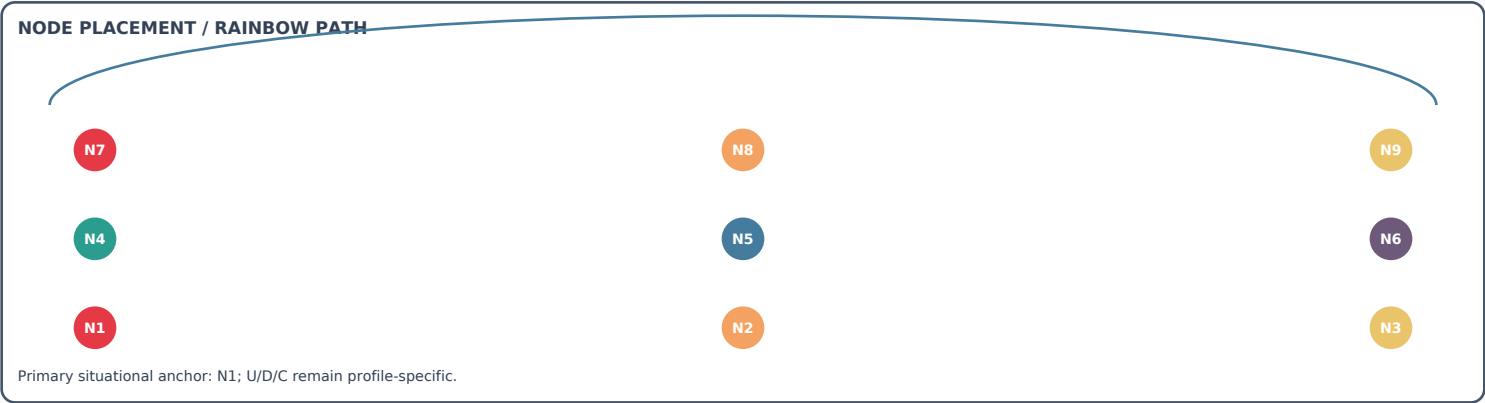
Pink source
MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 404 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper VI - Products / White Papers 30.7 MJOS — MJ Manifestation White Paper -MJ-PBMEF-FAMILY-WP-07 Construct Formula-specific expression Module MJ.PBMEF.WhitePaper.MJ-PBMEF-FAMILY-WP-07 Namespace MJ.PBMEF.Document.MJ-PBMEF-FAMILY-WP-07 Import whitepapers/family/07-mjos.md Declaration whitepaperMJ-PBMEF-FAMILY-WP-07 Definit...

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0404"
state R -> R1
node N3
representation JP(PINK-01-P0404)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 404 of 431. PRIVATE PRE-DAY-0 - UNSI



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 405 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper VI - Products / White Papers 30.9 Bellatrix — MJ Manifestation White Paper -MJ-PBMEF-FAMILY-WP- 09 Construct Formula-specific expression Module MJ.PBMEF.WhitePaper.MJ-PBMEF-FAMILY-WP-09 Namespace MJ.PBMEF.Document.MJ-PBMEF-FAMILY-WP-09 Import whitepapers/family/09-bellatrix.md Declaration whitepaperMJ-PBMEF-FAMILY-WP-09 Definition Independentdefense,challenge,q

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> Mj bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0405"
state R -> R1
node N1
representation JP(PINK-01-P0405)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 405 of 431. PRIVATE PRE-DAY-0 - UNSI
```

NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source
MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 406 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper VI - Products / White Papers 30.11 EVE — MJ Manifestation White Paper -MJ-PBMEF-FAMILY-WP-11 Construct Formula-specific expression Module MJ.PBMEF.WhitePaper.MJ-PBMEF-FAMILY-WP-11 Namespace MJ.PBMEF.Document.MJ-PBMEF-FAMILY-WP-11 Import whitepapers/family/11-eve.md Declaration whitepaperMJ-PBMEF-FAMILY-WP-11 Definition Variance,evaporativeeffect,screencapture,l

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0406"
state R -> R1
node N1
representation JP(PINK-01-P0406)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 406 of 431. PRIVATE PRE-DAY-0 - UNSI
```

Node Placement / Rainbow Path



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source
MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 407 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper VI - Products / White Papers 30.13 Mermaid — MJ Manifestation White Paper -MJ-PBMEF-FAMILY- WP-13 Construct Formula-specific expression Module MJ.PBMEF.WhitePaper.MJ-PBMEF-FAMILY-WP-13 Namespace MJ.PBMEF.Document.MJ-PBMEF-FAMILY-WP-13 Import whitepapers/family/13-mermaid.md Declaration whitepaperMJ-PBMEF-FAMILY-WP-13 Definit...

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0407"
state R -> R1
node N1
representation JP(PINK-01-P0407)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 407 of 431. PRIVATE PRE-DAY-0 - UNSI
```

Node Placement / Rainbow Path



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source
MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 408 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper VI - Products / White Papers 30.15 Shekina — MJ Manifestation White Paper -MJ-PBMEF-FAMILY- WP-15 Construct Formula-specific expression Module MJ.PBMEF.WhitePaper.MJ-PBMEF-FAMILY-WP-15 Namespace MJ.PBMEF.Document.MJ-PBMEF-FAMILY-WP-15 Import whitepapers/family/15-shekina.md Declaration whitepaperMJ-PBMEF-FAMILY-WP-15 Definit...

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0408"
state R -> R1
node N7
representation JP(PINK-01-P0408)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 408 of 431. PRIVATE PRE-DAY-0 - UNSI
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 409 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper VI - Products / White Papers 30.17 Lecanto — MJ Manifestation White Paper -MJ-PBMEF-FAMILY- WP-17 Construct Formula-specific expression Module MJ.PBMEF.WhitePaper.MJ-PBMEF-FAMILY-WP-17 Namespace MJ.PBMEF.Document.MJ-PBMEF-FAMILY-WP-17 Import whitepapers/family/17-lecanto.md Declaration whitepaperMJ-PBMEF-FAMILY-WP-17 Definit...

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> Mj bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0409"
state R -> R1
node N1
representation JP(PINK-01-P0409)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 409 of 431. PRIVATE PRE-DAY-0 - UNSI
```

Node Placement / Rainbow Path



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source
MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 410 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper VI - Products / White Papers 30.19 Aviator — MJ Manifestation White Paper -MJ-PBMEF-FAMILY-WP- 19 Construct Formula-specific expression Module MJ.PBMEF.WhitePaper.MJ-PBMEF-FAMILY-WP-19 Namespace MJ.PBMEF.Document.MJ-PBMEF-FAMILY-WP-19 Import whitepapers/family/19-aviator.md Declaration whitepaperMJ-PBMEF-FAMILY-WP-19 Definit...

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0410"
state R -> R1
node N1
representation JP(PINK-01-P0410)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 410 of 431. PRIVATE PRE-DAY-0 - UNSI
```

Node Placement / Rainbow Path

R

R1

N1

U

D

C

OUT

Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source
MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 411 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper VI - Products / White Papers 30.21 WATER — MJ Manifestation White Paper -MJ-PBMEF-FAMILY-WP- 21 Construct Formula-specific expression Module MJ.PBMEF.WhitePaper.MJ-PBMEF-FAMILY-WP-21 Namespace MJ.PBMEF.Document.MJ-PBMEF-FAMILY-WP-21 Import whitepapers/family/21-water.md Declaration whitepaperMJ-PBMEF-FAMILY-WP-21 Definit...

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0411"
state R -> R1
node N1
representation JP(PINK-01-P0411)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 411 of 431. PRIVATE PRE-DAY-0 - UNSI

Node Placement / Rainbow Path

R

R1

N1

U

D

C

OUT

Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source
MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 412 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper VI - Products / White Papers 30.23 Bangel Governed Measurement Language -MJ-PBMEF-PRODUCT- WP-02 Construct Formula-specific expression Module MJ.PBMEF.WhitePaper.MJ-PBMEF-PRODUCT-WP-02 Namespace MJ.PBMEF.Document.MJ-PBMEF-PRODUCT-WP-02 Import whitepapers/products/02-Bangel-language.md Declaration whitepaperMJ-PBMEF-PRODUCT-WP-02 Definition Expressshumanpurpose,t

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0412"
state R -> R1
node N2
representation JP(PINK-01-P0412)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 412 of 431. PRIVATE PRE-DAY-0 - UNSI

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source
MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 413 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper VI - Products / White Papers 30.25 JP Mathematical and Architectural Canon -MJ-PBMEF-PRODUCT- WP-04 Construct Formula-specific expression Module MJ.PBMEF.WhitePaper.MJ-PBMEF-PRODUCT-WP-04 Namespace MJ.PBMEF.Document.MJ-PBMEF-PRODUCT-WP-04 Import whitepapers/products/04-jp-canon.md Declaration whitepaperMJ-PBMEF-PRODUCT-WP-04 Definition Representequations,algori

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0413"
state R -> R1
node N1
representation JP(PINK-01-P0413)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 413 of 431. PRIVATE PRE-DAY-0 - UNSI

Node Placement / Rainbow Path



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

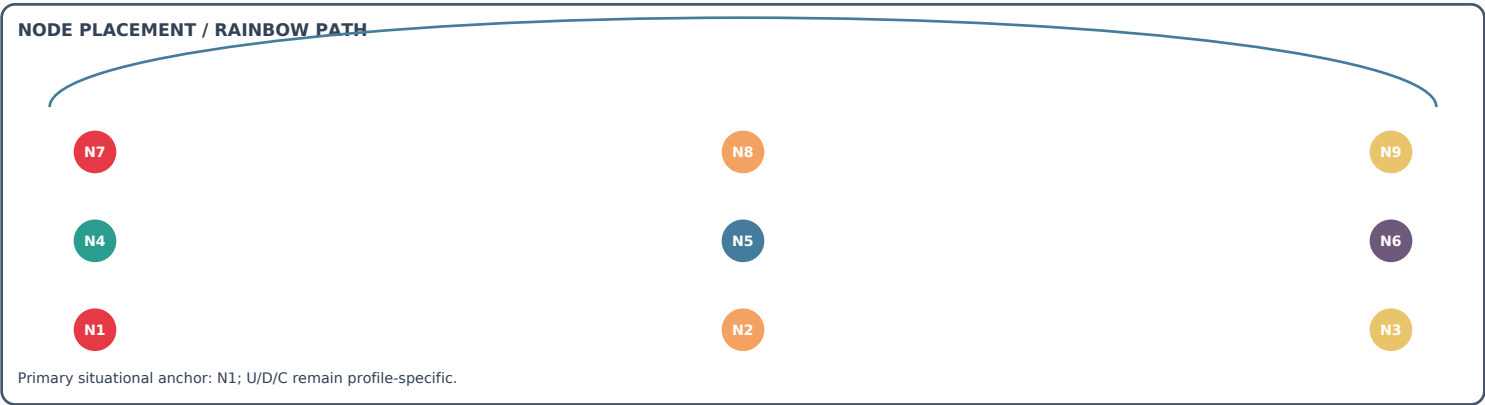
Pink source
MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 414 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper VI - Products / White Papers 30.27 JO Deterministic Proof and Runtime -MJ-PBMEF-PRODUCT-WP-06 Construct Formula-specific expression Module MJ.PBMEF.WhitePaper.MJ-PBMEF-PRODUCT-WP-06 Namespace MJ.PBMEF.Document.MJ-PBMEF-PRODUCT-WP-06 Import whitepapers/products/06-jo-runtime.md Declaration whitepaperMJ-PBMEF-PRODUCT-WP-06 Definition Verifytypes,units,authority,p

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0414"
state R -> R1
node N1
representation JP(PINK-01-P0414)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 414 of 431. PRIVATE PRE-DAY-0 - UNSI
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 415 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper VI - Products / White Papers 30.29 JP Semiconductor Phone Battery and OS Candidate -MJ-PBMEF- PRODUCT-WP-08 Construct Formula-specific expression Module MJ.PBMEF.WhitePaper.MJ-PBMEF-PRODUCT-WP-08 Namespace MJ.PBMEF.Document.MJ-PBMEF-PRODUCT-WP-08 Import whitepapers/products/08-jp-sc-phone.md Declaration whitepaperMJ-PBMEF-PRODUCT-WP-08 Definition Exploresemicon

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> Mj bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0415"
state R -> R1
node N1
representation JP(PINK-01-P0415)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 415 of 431. PRIVATE PRE-DAY-0 - UNSI
```

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 416 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper VI - Products / White Papers 30.31 JP Peaceful High-Energy Propulsion Research Candidate -MJ- PBMEF-PRODUCT-WP-10 Construct Formula-specific expression Module MJ.PBMEF.WhitePaper.MJ-PBMEF-PRODUCT-WP-10 Namespace MJ.PBMEF.Document.MJ-PBMEF-PRODUCT-WP-10 Import whitepapers/products/10-jp-peaceful-propulsion.md Declaration whitepaperMJ-PBMEF-PRODUCT-WP-10 Definiti

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0416"
state R -> R1
node N6
representation JP(PINK-01-P0416)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 416 of 431. PRIVATE PRE-DAY-0 - UNSI
```

Node Placement / Rainbow Path

Rectangle

Cone

Sister umbrella

EVE/lake

next-cycle re-entry

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source

MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 417 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper VI - Products / White Papers 30.33 EVE Variance Screen and Egress Accounting - MJ-PBMEF- PRODUCT-WP-12 Construct Formula-specific expression Module MJ.PBMEF.WhitePaper.MJ-PBMEF-PRODUCT-WP-12 Namespace MJ.PBMEF.Document.MJ-PBMEF-PRODUCT-WP-12 Import whitepapers/products/12-eve-screen.md Declaration whitepaperMJ-PBMEF-PRODUCT-WP-12 Definition Accountforvariance,e

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0417"
state R -> R1
node N1
representation JP(PINK-01-P0417)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 417 of 431. PRIVATE PRE-DAY-0 - UNSI
```

Node Placement / Rainbow Path



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source
MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 418 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper VI - Products / White Papers 30.35 Mermaid Accounting and Reconciliation System -MJ-PBMEF- PRODUCT-WP-14 Construct Formula-specific expression Module MJ.PBMEF.WhitePaper.MJ-PBMEF-PRODUCT-WP-14 Namespace MJ.PBMEF.Document.MJ-PBMEF-PRODUCT-WP-14 Import whitepapers/products/14-mermaid-recon.md Declaration whitepaperMJ-PBMEF-PRODUCT-WP-14 Definition Maintainbalance

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0418"
state R -> R1
node N1
representation JP(PINK-01-P0418)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 418 of 431. PRIVATE PRE-DAY-0 - UNSI
```

Node Placement / Rainbow Path

R

R1

N1

U

D

C

OUT

Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

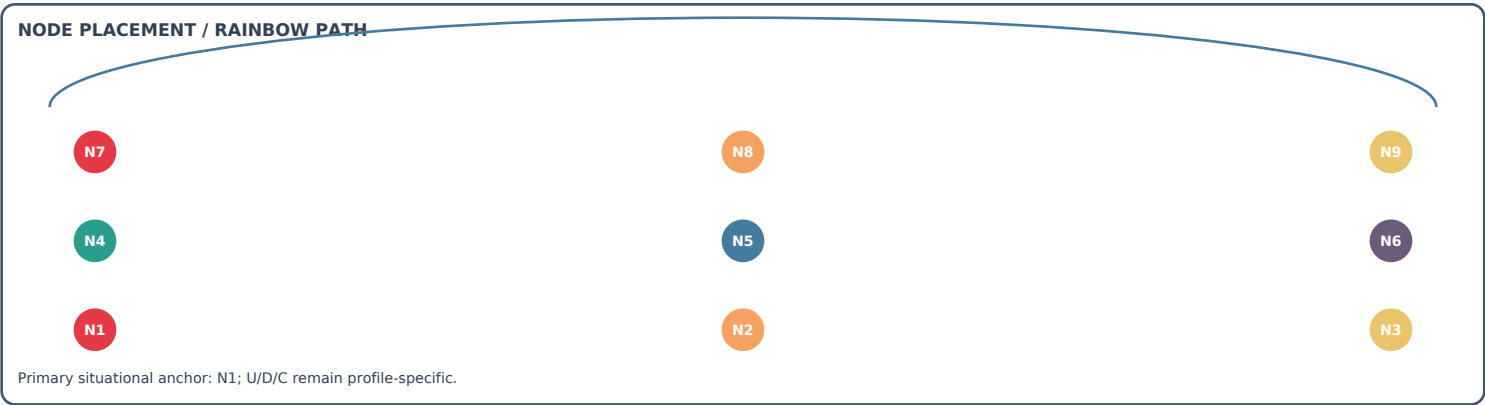
Pink source
MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 419 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper VI - Products / White Papers 30.37 SHIVAS Internal Settlement Reflection -MJ-PBMEF-PRODUCT-WP- 16 Construct Formula-specific expression Module MJ.PBMEF.WhitePaper.MJ-PBMEF-PRODUCT-WP-16 Namespace MJ.PBMEF.Document.MJ-PBMEF-PRODUCT-WP-16 Import whitepapers/products/16-shivas-internal.md Declaration whitepaperMJ-PBMEF-PRODUCT-WP-16 Definition Representinternalcap

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0419"
state R -> R1
node N1
representation JP(PINK-01-P0419)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 419 of 431. PRIVATE PRE-DAY-0 - UNSI



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 420 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper VI - Products / White Papers 30.39 Shiva Exchange Rule Reference -MJ-PBMEF-PRODUCT-WP-18 Construct Formula-specific expression Module MJ.PBMEF.WhitePaper.MJ-PBMEF-PRODUCT-WP-18 Namespace MJ.PBMEF.Document.MJ-PBMEF-PRODUCT-WP-18 Import whitepapers/products/18-shiva-exchange.md Declaration whitepaperMJ-PBMEF-PRODUCT-WP-18 Definit...

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> Mj bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0420"
state R -> R1
node N1
representation JP(PINK-01-P0420)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 420 of 431. PRIVATE PRE-DAY-0 - UNSI
```

Node Placement / Rainbow Path



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source
MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 421 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper VI - Products / White Papers 30.41 Aviator Organizational Workspace -MJ-PBMEF-PRODUCT-WP-20 Construct Formula-specific expression Module MJ.PBMEF.WhitePaper.MJ-PBMEF-PRODUCT-WP-20 Namespace MJ.PBMEF.Document.MJ-PBMEF-PRODUCT-WP-20 Import whitepapers/products/20-aviator-workspace.md Declaration whitepaperMJ-PBMEF-PRODUCT-WP-20 Definition Organizespaces,projects,

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0421"
state R -> R1
node N1
representation JP(PINK-01-P0421)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 421 of 431. PRIVATE PRE-DAY-0 - UNSI
```

Node Placement / Rainbow Path

R

R1

N1

U

D

C

OUT

Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source
MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 422 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper VI - Products / White Papers 30.43 Elsa Governed Marketplace Reference -MJ-PBMEF-PRODUCT-WP- 22 Construct Formula-specific expression Module MJ.PBMEF.WhitePaper.MJ-PBMEF-PRODUCT-WP-22 Namespace MJ.PBMEF.Document.MJ-PBMEF-PRODUCT-WP-22 Import whitepapers/products/22-elsa-marketplace.md Declaration whitepaperMJ-PBMEF-PRODUCT-WP-22 Definition Coordinatessemanticlis

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0422"
state R -> R1
node N1
representation JP(PINK-01-P0422)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 422 of 431. PRIVATE PRE-DAY-0 - UNSI

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source
MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 423 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper VI - Products / White Papers 30.45 Pearl Hypothetical Simulation and Information-Retention Sys- tem -MJ-PBMEF-PRODUCT-WP-24 Construct Formula-specific expression Module
MJ.PBMEF.WhitePaper.MJ-PBMEF-PRODUCT-WP-24 Namespace
MJ.PBMEF.Document.MJ-PBMEF-PRODUCT-WP-24 Import
whitepapers/products/24-pearl-containment.md Declarat...

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0423"
state R -> R1
node N1
representation JP(PINK-01-P0423)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 423 of 431. PRIVATE PRE-DAY-0 - UNSI

Node Placement / Rainbow Path



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source
MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 424 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper VI - Products / White Papers 30.47 JPOSMJ Product Portfolio Envelope -MJ-PBMEF-PRODUCT-WP-26 Construct Formula-specific expression Module MJ.PBMEF.WhitePaper.MJ-PBMEF-PRODUCT-WP-26 Namespace MJ.PBMEF.Document.MJ-PBMEF-PRODUCT-WP-26 Import whitepapers/products/26-jposmj-portfolio.md Declaration whitepaperMJ-PBMEF-PRODUCT-WP-26 Definition GiveeveryJP-originproduc

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0424"
state R -> R1
node N5
representation JP(PINK-01-P0424)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 424 of 431. PRIVATE PRE-DAY-0 - UNSI
```

Node Placement / Rainbow Path



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 425 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper VI - Products / White Papers 30.49 MJ Reservoir Collection Modulation and Return Loop -MJ- PBMEF-PRODUCT-WP-28 Construct Formula-specific expression Module MJ.PBMEF.WhitePaper.MJ-PBMEF-PRODUCT-WP-28 Namespace MJ.PBMEF.Document.MJ-PBMEF-PRODUCT-WP-28 Import whitepapers/products/28-reservoir-collection-modulation.md Declaration whitepaperMJ-PBMEF-PRODUCT-WP-28 De

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0425"
state R -> R1
node N1
representation JP(PINK-01-P0425)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 425 of 431. PRIVATE PRE-DAY-0 - UNSI
```

Node Placement / Rainbow Path

R

R1

N1

U

D

C

OUT

Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source
MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 426 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper VI - Products / White Papers 30.51 Noise Floor and 23 mg Inflection -MJ-PBMEF-REPRESENTATION- WP-02 Construct Formula-specific expression Module MJ.PBMEF.WhitePaper.MJ-PBMEF-REPRESENTATION-WP-02 Namespace MJ.PBMEF.Document.MJ-PBMEF-REPRESENTATION-WP-02 Import whitepapers/representations/02-noise-23mg.md Declaration whitepaperMJ-PBMEF-REPRESENTATION-WP-02 Defini

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0426"
state R -> R1
node N1
representation JP(PINK-01-P0426)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 426 of 431. PRIVATE PRE-DAY-0 - UNSI

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

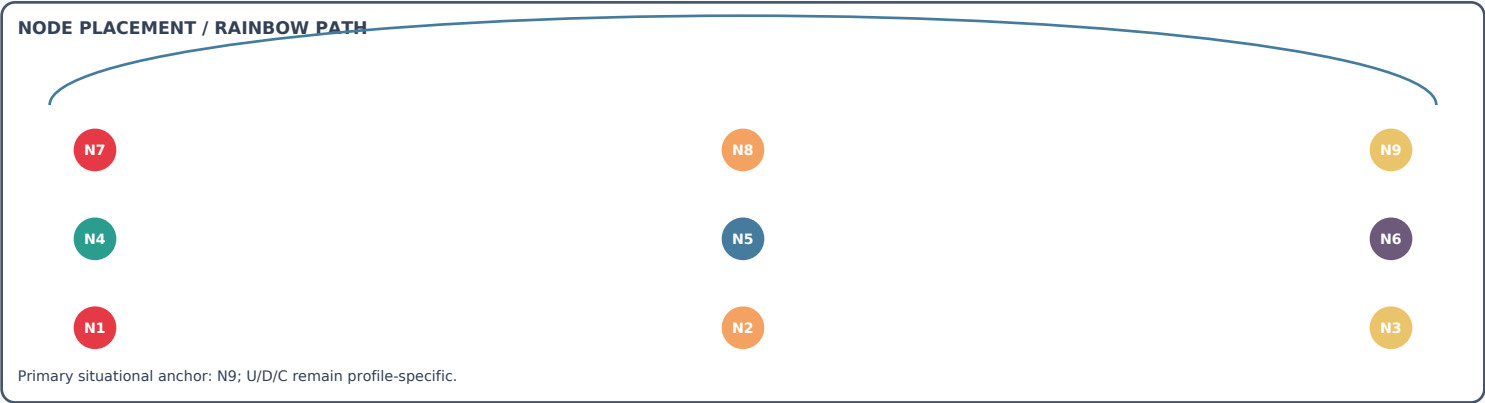
Pink source
MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 427 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper VI - Products / White Papers 30.53 Memory, Request Occultation, and Generational Handoff -MJ- PBMEF-REPRESENTATION-WP-04 Construct Formula-specific expression Module
MJ.PBMEF.WhitePaper.MJ-PBMEF-REPRESENTATION-WP-04 Namespace
MJ.PBMEF.Document.MJ-PBMEF-REPRESENTATION-WP-04 Import
whitepapers/representations/04-memory-handoff.md Declarat...

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0427"
state R -> R1
node N1
representation JP(PINK-01-P0427)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 427 of 431. PRIVATE PRE-DAY-0 - UNSI

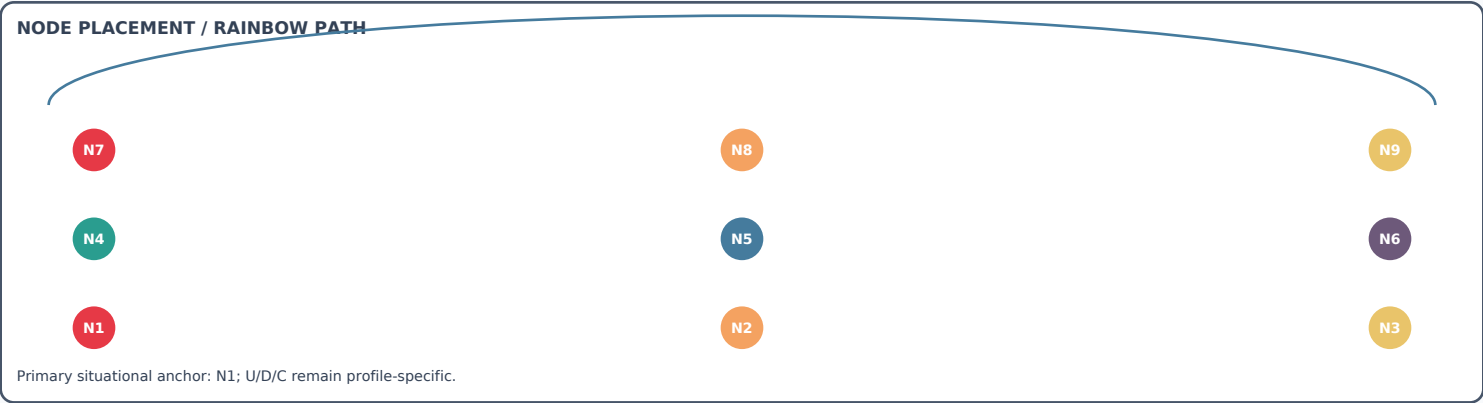


R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 428 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper VI - Products / White Papers 30.55 EVE Variance, Screen, Evaporation, and Egress -MJ-PBMEF- REPRESENTATION-WP-06 Construct Formula-specific expression Module MJ.PBMEF.WhitePaper.MJ-PBMEF-REPRESENTATION-WP-06 Namespace MJ.PBMEF.Document.MJ-PBMEF-REPRESENTATION-WP-06 Import whitepapers/representations/06-eve-egress.md Declaration whitepaperMJ-PBMEF-REPRESENTATION

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> Mj bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0428"
state R -> R1
node N9
representation JP(PINK-01-P0428)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 428 of 431. PRIVATE PRE-DAY-0 - UNSI
```

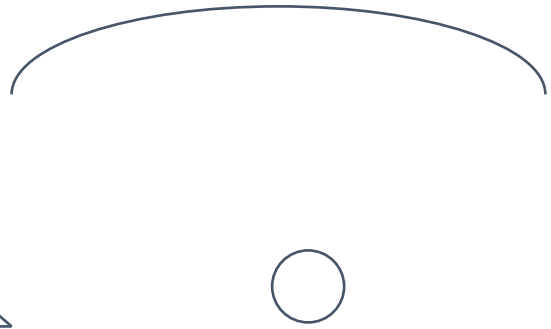
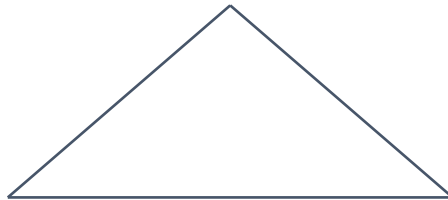
R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 430 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper VI - Products / White Papers 30.59 Bangel Spreadsheets Cell, Dependency, Revision, and Pearl Simulation Field -MJ-PBMEF-REPRESENTATION-WP-10 Construct Formula-specific expression Module MJ.PBMEF.WhitePaper.MJ-PBMEF-REPRESENTATION-WP-10 Namespace MJ.PBMEF.Document.MJ-PBMEF-REPRESENTATION-WP-10 Import whitepapers/representations/10-Bangel-spreadsheets-field.md De

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-01-P0430"
state R -> R1
node N1
representation JP(PINK-01-P0430)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page 430 of 431. PRIVATE PRE-DAY-0 - UNSI
```

NODE PLACEMENT / RAINBOW PATH



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

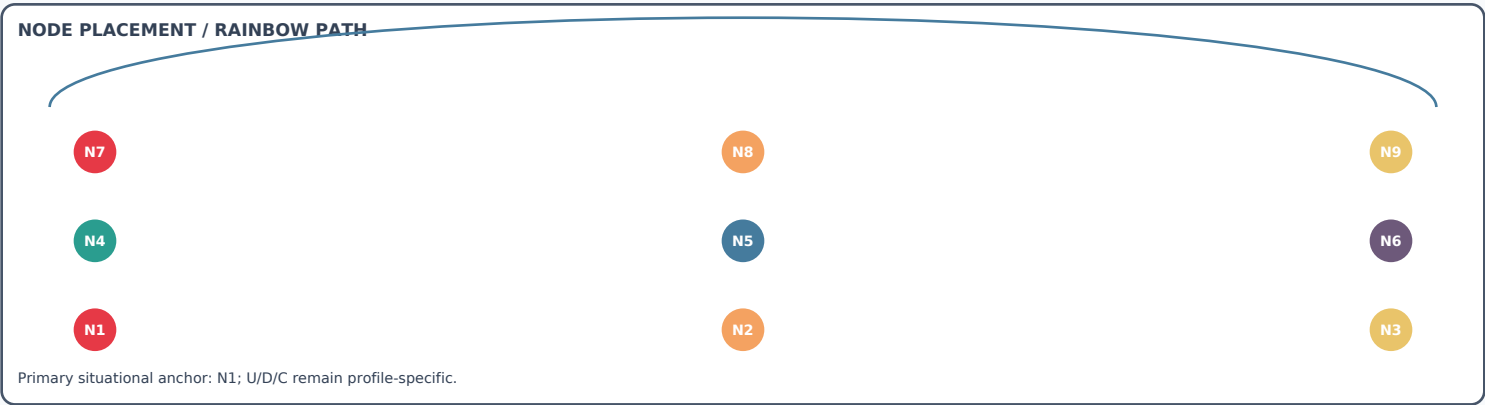
Pink source
 MJ.PBMEF.Pink_Paper_Gateway_Expression_and_Full_Lifecycle_001.pdf, page
 431 of 431. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper VI
 - Products / White Papers 30.61 Reservoir Return Loop Physics Representation -
 MJ-PBMEF- REPRESENTATION-WP-12 Construct Formula-specific expression
 Module MJ.PBMEF.WhitePaper.MJ-PBMEF-REPRESENTATION-WP-12 Namespace
 MJ.PBMEF.Document.MJ-PBMEF-REPRESENTATION-WP-12 Import
 whitepapers/representations/12-reservoir-return-loop.md Declaration
 whitepaperMJ-PBMEF-REP

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSigned_R
reference "PINK-01-P0431"
state R -> R1
node N1
representation JP(PINK-01-P0431)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ PBMEF Pink Paper Gateway Expression and Full Lifecycle 001.pdf, page 431 of 431. PRIVATE PRE-DAY-0 - UNSI
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume01_Gateway.pdf, page 1 of 10. MJ-PBMEFPinkPaper-Volumel GatewayExpression,BangelConstructSemantics,CommandNormalization,and R-to-N1-to-R2Lifecycle MichaelBangel-AuthorandArchitect August2026

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.MJ_PBMEFPinkPaper_VolumeI_Ga
reference "PINK-02-P0001"
state R -> R1
node N1
representation JP(PINK-02-P0001)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume01_Gateway.pdf, page 1 of 10. MJ-PBMEFPinkPaper-Volumel GatewayExpression,Bangel ConstructSem
```

Node Placement / Rainbow Path



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume01_Gateway.pdf, page 2 of 10. Contents 1 Executive gateway statement 2 2 Progressive expansion from MJ.23.r2 3 3 Token-by-token identification 4 4 Canonical execution order 5 5 R, R1, N1, R2, and final output 6 6 Bangel construct dictionary 7 7 Full declarative gateway example 8 8 Verification of the full corpus 9 Document control Project MJ:PhysicsBasedMeasurementEngineeringFramework Project ID MJ-PBMEF-001 Source build MJ-PBMEF-DAY0-R5-REVIEW-C

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Contents_1_Executive_gateway
reference "PINK-02-P0002"
state R -> R1
node N1
representation JP(PINK-02-P0002)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume01_Gateway.pdf, page 2 of 10. Contents 1 Executive gateway statement 2 2 Progressive expansi
```


Node Placement / Rainbow Path



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

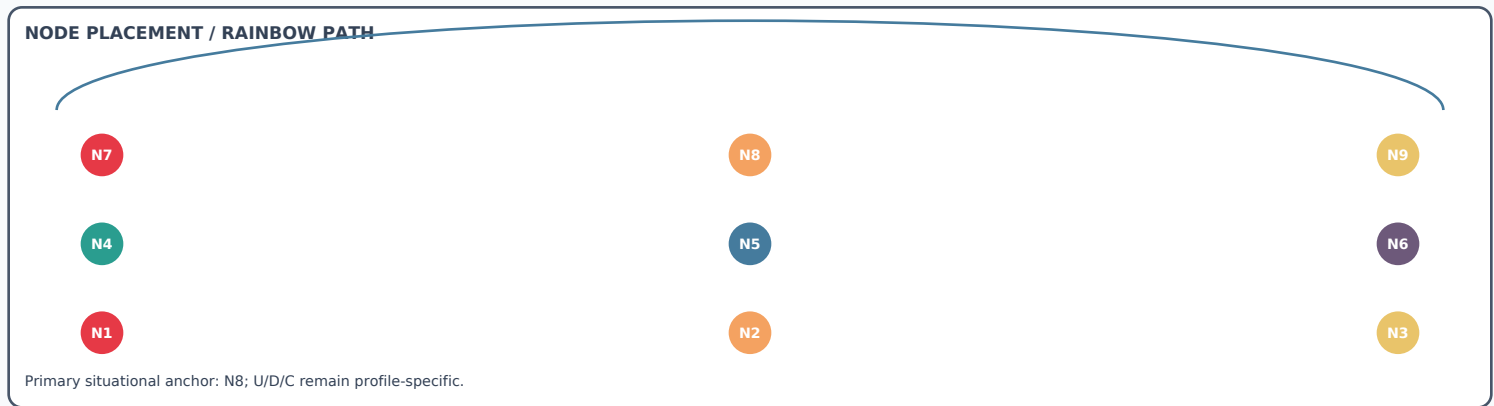
R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume01_Gateway.pdf, page 4 of 10. Chapter 2 Progressive expansion from MJ.23.r2 Stage Expression Interpretation 1 MJ.23.r2 Profile/stateseed 2 MJ.23.r2.exe Addrequestedexecutionverb 3 MJ.23.r2.exe.r1.confirm Addstransitionandconfirmation 4 MJ.23.r2.exe.r1.confirm.G123.reconcile Addsgenerationalreconciliation 5 MJ.23.r2.exe.r1.confirm.G123.reconcile.Bangel.begin Addslanguagestartdirective 6 M3.act.MJ.23.r2.exe.r1.confirm.G123.reconcile.Bangel.begin A

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.Chapter_2_Progressive_expans
reference "PINK-02-P0004"
state R -> R1
node N1
representation JP(PINK-02-P0004)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume01_Gateway.pdf, page 4 of 10. Chapter 2 Progressive expansion from MJ.23.r2 Stage Expression
```

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source PinkPaper_Volume01_Gateway.pdf, page 5 of 10. Chapter 3
Token-by-token identification Token Exact meaning and boundary
{hagelaohrbcoe.48383829}
Requestenvelopecontaininganopaquerequestidentifiendexactratio48,383,829/
100,000,000. Itisnotaphysicalcoordinate,probabilityoftruth,orpermit. M3
Mary/M3boundedroutingandallocationparticipant. M3cannotmintauthority. act
Requestedeffectverb. Itremainsarequestuntilallgatespass. Mj
Frameworkrootandfinalboundeddecisionautho

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

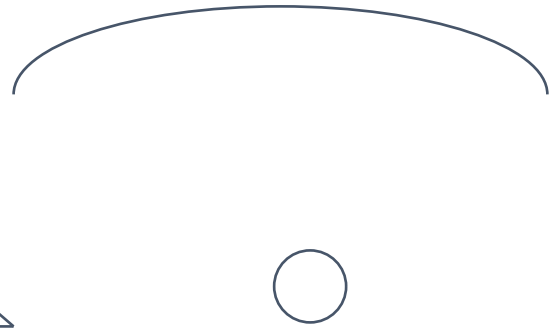
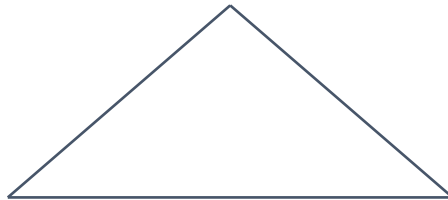
CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_3-Token_by_token_id
reference "PINK-02-P0005"
state R -> R1
node N8
representation JP(PINK-02-P0005)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper.Volume01 Gateway.pdf, page 5 of 10. Chapter 3 Token-by-token identification Token Exact meaning an
```

NODE PLACEMENT / RAINBOW PATH



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.



R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source PinkPaper_Volume01_Gateway.pdf, page 6 of 10. Chapter 4 Canonical execution order HumanPurpose -> Mj.root -> Bangel.begin -> Elsa.recover -> Jp.represent -> Mk.classify -> Jo.verify -> R1.transition -> N1.predict_and_preallocate -> Angels/Bellatrix/Sister/EVE.evidence -> M3.route -> Mermaid.reconcile -> Shiva.when_capital_applies -> Mj.permit -> Jo.execute -> R2.output_receipt 5

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_4_Canonical_executio
reference "PINK-02-P0006"
state R -> R1
node N1
representation JP(PINK-02-P0006)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume01_Gateway.pdf, page 6 of 10. Chapter 4 Canonical execution order HumanPurpose -> MJ.root ->
```

Node Placement / Rainbow Path

Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume01_Gateway.pdf, page 7 of 10. Chapter 5 R, R1, N1, R2, and final output Lifecycle state Definition R/R0 Initialpurpose,command,variables,authoritycontext,andunresolvedinputs. R1 Unidentifiedtransitoryphase. Missingordisputedevidenceremainsstypedandcan- notbecomezero. N1 Firstprediction-basedallocationnode. Itreceivesvalidatedlogicalallocationcontext, notaphysical-coordinateapproval. R2 Immutableliving-staticrepresentationafterscopedvalidation.

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.Chapter_5_R_R1_N1_R2_and_fin
reference "PINK-02-P0007"
state R -> R1
node N1
representation JP(PINK-02-P0007)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume01_Gateway.pdf, page 7 of 10. Chapter 5 R, R1, N1, R2, and final output Lifecycle state Defi
```

NODE PLACEMENT / RAINBOW PATH



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume01_Gateway.pdf, page 8 of 10. Chapter 6 Bangel construct dictionary Construct Definition Module Aboundedcompilationorspecificationunitgroupingrelateddeclarationsanddefinitions. Namespace Astableidentitydomainpreventingcollisionsamongfamily,formula,product,andobjectnames. Import Anexplicitdependencyedge. Importsconfernoauthorityandmustpreservesourcedi- gestandversion. Declaration Anamedcommitmentthatanobject,formula,participant,type,orfunctione

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_6_Bangel_construct_d
reference "PINK-02-P0008"
state R -> R1
node N1
representation JP(PINK-02-P0008)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume01_Gateway.pdf, page 8 of 10. Chapter 6 Bangel construct dictionary Construct Definition Mod
```

NODE PLACEMENT / RAINBOW PATH

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source PinkPaper_Volume01_Gateway.pdf, page 9 of 10. Chapter 7 Full declarative gateway example module MJ.PBMEF.Gateway { namespace MJ.PBMEF.Command.Day0 import MJ.PBMEF.Manifest import MJ.PBMEF.Formulas import MJ.PBMEF.Family @source_literal("{hagelaohrbcoe.48383829}." "M3.act.MJ.23.r2.exe.r1.confirm." "G123.reconcile.Bangel.begin") declaration request : CommandEnvelope definition request.id = "hagelaohrbcoe" definition request.front_end_seed = exact_ratio(48383829,

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_7_Full_declarative_g
reference "PINK-02-P0009"
state R -> R1
node N1
representation JP(PINK-02-P0009)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume01_Gateway.pdf, page 9 of 10. Chapter 7 Full declarative gateway example module MJ.PBMEF.Gat
```

Node Placement / Rainbow Path



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source PinkPaper_Volume01_Gateway.pdf, page 10 of 10. Chapter 8 Verification of the full corpus ThisPinkPaperbindsthegatewayto 21 family manifestations, 39 governed objects, 28 products, 145 formulas, and 61 registered white papers. Theremainingvolumesenumerateeachitemand statehowitentersthegateway,whatitmayexpress,whatevidenceitrequires,andwhatauthority cannotcreate. 9

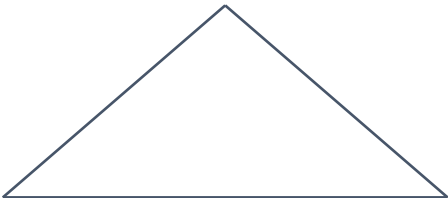
Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.Chapter_8_Verification_of_th
reference "PINK-02-P0010"
state R -> R1
node N1
representation JP(PINK-02-P0010)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume01_Gateway.pdf, page 10 of 10. Chapter 8 Verification of the full corpus ThisPinkPaperbindst
```

NODE PLACEMENT / RAINBOW PATH



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 1 of 106. MJ-PBMEFPinkPaper-Volumell FormulaGatewayBindingsF-001throughF-050 MichaelBangel-AuthorandArchitect August2026

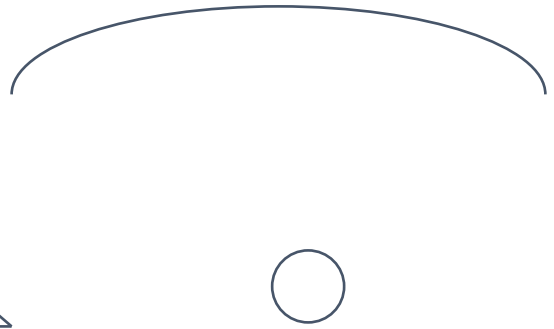
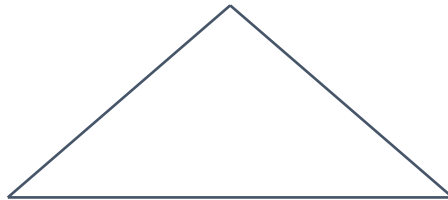
PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.MJ_PBMEFPinkPaper_VolumeII_F
reference "PINK-03-P0001"
state R -> R1
node N1
representation JP(PINK-03-P0001)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 1 of 106. MJ-PBMEFPinkPaper-Volumell FormulaGatewayBindingsF
```

NODE PLACEMENT / RAINBOW PATH



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 2 of 106.

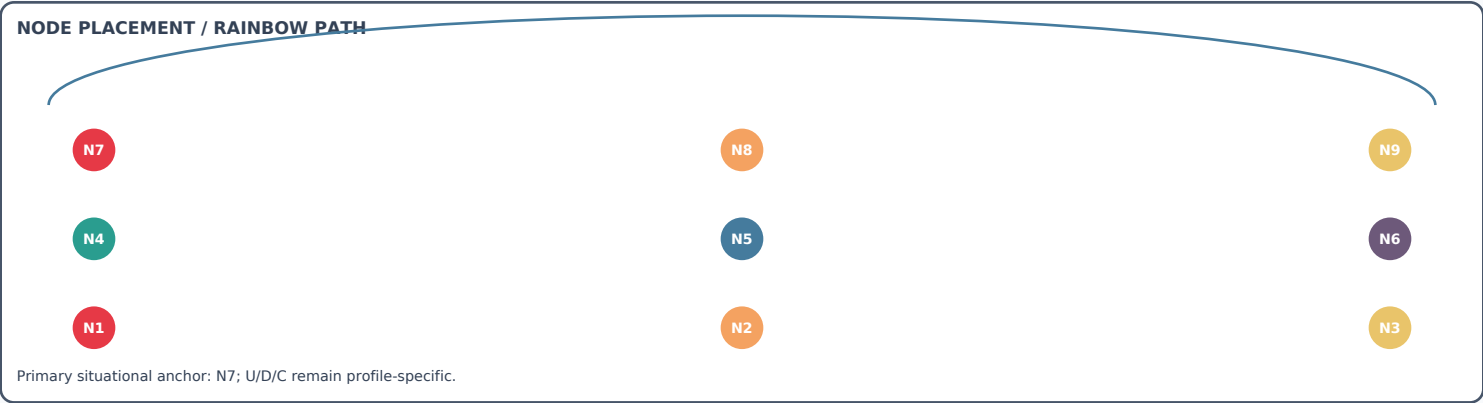
Contents 1 Verification method 5 2 F-001 - R1 transition 6 2.1
Gatewaylife-cycleexample 6 2.2
Lifecyclefromrequesttofinaloutput 7 3
F-002 - R2 transition 8 3.1 Gatewaylife-cycleexample
..... 8 3.2 Lifecyclefromrequesttofinaloutput

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Contents_1_Verification_meth
reference "PINK-03-P0002"
state R -> R1
node N1
representation JP(PINK-03-P0002)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper.Vol002 Formulas.F001.F050.pdf, page 2 of 106. Contents 1 Verification method 5 2 F-001 - R1 tran
```

R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 3 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper II - F001-F050 13.2Lifecyclefromrequesttofinaloutput29 14F-013 - Front-end reserve 30 14.1Gatewaylife-cycleexample30 14.2Lifecyclefromrequesttofinaloutput31 15F-014 - Bounde

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-03-P0003"
state R -> R1
node N7
representation JP(PINK-03-P0003)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 3 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink
```

Node Placement / Rainbow Path



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 4 of 106.
PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper II - F001-F050
29F-028 - Byte balance 60 29.1Gatewaylife-cycleexample
.....60 29.2Lifecyclefromrequesttofinaloutput
.....61 30F-029 - Residual consequence 62
30.1Gatewaylife-cycleexample

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-03-P0004"
state R -> R1
node N1
representation JP(PINK-03-P0004)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 4 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink
```

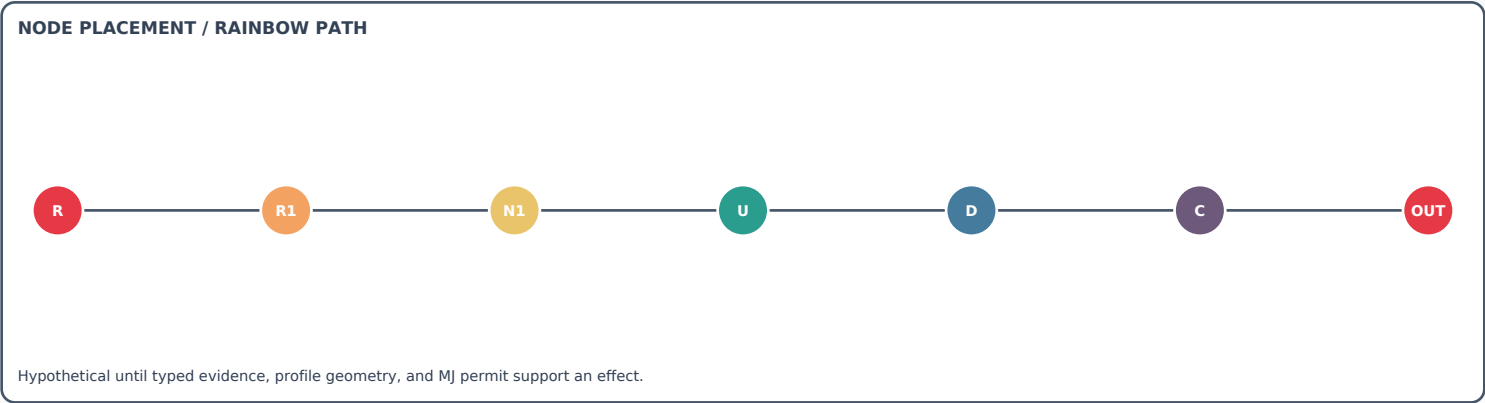


R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 5 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper II - F001-F050 44F-043 - Pearl simulation ellipsoid volume 90 44.1Gatewaylife-cycleexample90 44.2Lifecyclefromrequesttofinaloutput91 45F-044 - Pearl simulation surface-area approximation 92 45.1Gatewaylife-cycleexample

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-03-P0005"
state R -> R1
node N1
representation JP(PINK-03-P0005)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 5 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 6 of 106. Chapter 1 Verification method Each formula receives the same twenty-construct Bangel identity, a gateway-stage assignment, a life-cycleexample, andexplicitvidenceandethicsboundaries. Therepetitivestructureisintentional: it allowsformula-by-formulafounderreviewandlaterautomatedcompletenesschecking. 5

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_1_Verification_metho
reference "PINK-03-P0006"
state R -> R1
node N1
representation JP(PINK-03-P0006)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 6 of 106. Chapter 1 Verification method Each formula receive
```

NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 7 of 106. Chapter 2 F-001 - R1 transition Exact expression R0 -> R1 Meaning. R1istheunidentifiedtransitoryphase. Bound manifestations.Bangel .JP,JO Gateway stage.R0/R1/R2statettransitionandevidenceclassification Construct Formula-specific expression Module MJ.PBMEF.foundation.state_noise_allocation_memory Namespace MJ.PBMEF.foundation.state_noise_allocation_memory.F_001 Import MJ.PBMEF.Manifest,MJ.PBMEF.Formulas,MJ.PBMEF.Fami

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_2_F_001_R1_transitio
reference "PINK-03-P0007"
state R -> R1
node N1
representation JP(PINK-03-P0007)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 7 of 106. Chapter 2 F-001 - R1 transition Exact expression R
```

```

graph LR
    R((R)) --- R1((R1))
    R1 --- N1((N1))
    N1 --- U((U))
    U --- D((D))
    D --- C((C))
    C --- OUT((OUT))

```

R STATUS / OBSERVATION

SOURCE RULE / INTENT

PATH OF EXPRESSION

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-03-P0008"
state R -> R1
node N1
representation JP(PINK-03-P0008)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper Volume02 Formulas F001 F050.pdf, page 8 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink
```

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 9 of 106. Chapter 3 F-002 - R2 transition Exact expression R1 --validated--> R2 Meaning. R2istheimmutablelivingstaticrepresentation. Bound manifestations.JP,MK,JO Gateway stage.R0/R1/R2statettransitionandevidenceclassification Construct Formula-specific expression Module MJ.PBMEF.foundation.state_noise_allocation_memory Namespace MJ.PBMEF.foundation.state_noise_allocation_memory.F_002 Import MJ.PBMEF.Manifest,MJ.PBMEF.Formulas,

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_3_F_002_R2_transitio
reference "PINK-03-P0009"
state R -> R1
node N1
representation JP(PINK-03-P0009)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 9 of 106. Chapter 3 F-002 - R2 transition Exact expression R
```

Node Placement / Rainbow Path



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 10 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper II - F001-F050 3.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-002anditsassumptions, inputs, outp

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-03-P0010"
state R -> R1
node N1
representation JP(PINK-03-P0010)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 10 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pin
```


Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 11 of 106. Chapter 4 F-003 - Unknown invariant Exact expression UNKNOWN != 0 Meaning. Unknownmaynotcoercetozero,pass,harmlessness,orpermission. Bound manifestations.Bangel ,JO,WATER Gateway stage.R0/R1/R2statetransitionandevidenceclassification Construct Formula-specific expression Module MJ.PBMEF.foundation.state_noise_allocation_memory Namespace MJ.PBMEF.foundation.state_noise_allocation_memory.F_003 Import MJ.PBMEF.Manifest,M

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_4_F_003_Unknown_inva
reference "PINK-03-P0011"
state R -> R1
node N1
representation JP(PINK-03-P0011)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 11 of 106. Chapter 4 F-003 - Unknown invariant Exact express
```

Node Placement / Rainbow Path



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 12 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper II - F001-F050 4.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-003anditsassumptions, inputs, outp

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-03-P0012"
state R -> R1
node N1
representation JP(PINK-03-P0012)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 12 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pin
```

Node Placement / Rainbow Path



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 13 of 106. Chapter 5 F-004 - Mass inflection Exact expression m_floor = 23 mg Meaning. Pre-observationalmodelfloor,notauniversalminimumorproductmass. Bound manifestations.JP,MK,EVE,JO Gateway stage.MJ.23typedmeasurementbranchandMKphysicsclassification Construct Formula-specific expression Module MJ.PBMEF.foundation.state_noise_allocation_memory Namespace MJ.PBMEF.foundation.state_noise_allocation_memory.F_004 Import MJ.PBMEF.Ma

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.Chapter_5_F_004_Mass_inflect
reference "PINK-03-P0013"
state R -> R1
node N1
representation JP(PINK-03-P0013)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 13 of 106. Chapter 5 F-004 - Mass inflection Exact expressio
```



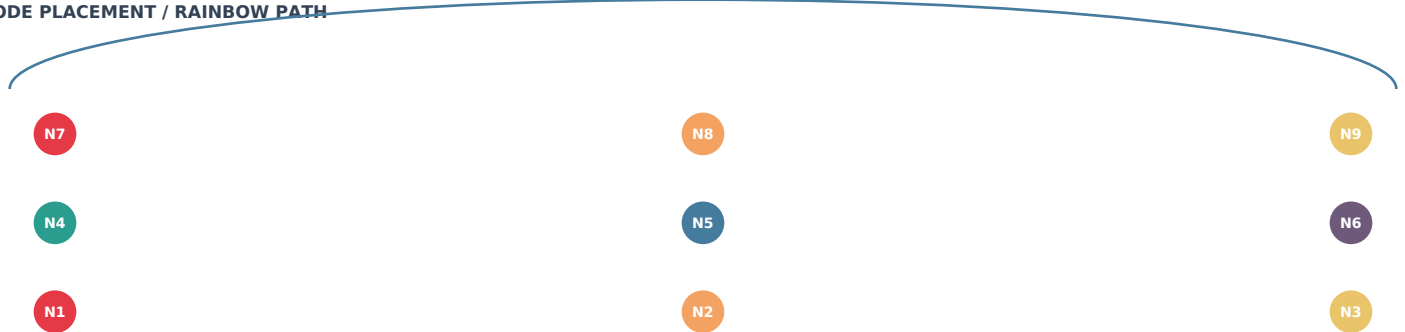
R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 14 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper II - F001-F050 5.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-004anditsassumptions, inputs, outp

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-03-P0014"
state R -> R1
node N1
representation JP(PINK-03-P0014)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 14 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pin
```

NODE PLACEMENT / RAINBOW PATH



Primary situational anchor: N1; U/D/C remain profile-specific.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 15 of 106.
Chapter 6 F-005 - Noise smoothing Exact expression $n_bar[t] = 0.9 * n_bar[t-1] + 0.1 * n[t]$ Meaning. Drip-levelsmoothing. Bound manifestations.SISTER[JO,MK Gateway stage.R1predictionandnormal-constellationcalibrationbeforeN1 Construct Formula-specific expression Module
MJ.PBMEF.foundation.state_noise_allocation_memory Namespace
MJ.PBMEF.foundation.state_noise_allocation_memory.F_005 Import
MJ.PBMEF.Manifest,MJ.PBMEF.Form

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_6_F_005_Noise_smooth
reference "PINK-03-P0015"
state R -> R1
node N1
representation JP(PINK-03-P0015)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 15 of 106. Chapter 6 F-005 - Noise smoothing Exact expressio
```

Node Placement / Rainbow Path



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 16 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper II - F001-F050 6.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-005anditsassumptions, inputs, outp

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-03-P0016"
state R -> R1
node N1
representation JP(PINK-03-P0016)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 16 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pin



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 17 of 106. Chapter 7 F-006 - Trend estimator Exact expression $n_{\dot{t}} = (2/3)*n_{\dot{t-1}} + (1/3)*(n_{\text{bar}[t]}-n_{\text{bar}[t-1]})/dt$ Meaning. One-thirdtrendupdate. Bound manifestations.SISTER,JO,MK Gateway stage.R1predictionandnormal-constellationcalibrationbeforeN1 Construct Formula-specific expression Module MJ.PBMEF.foundation.state_noise_allocation_memory Namespace MJ.PBMEF.foundation.state_noise_allocation_memory.F_006 Import MJ.PBM

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> Mj bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_7_F_006_Trend_estima
reference "PINK-03-P0017"
state R -> R1
node N1
representation JP(PINK-03-P0017)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 17 of 106. Chapter 7 F-006 - Trend estimator Exact expressio
```

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 18 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper II - F001-F050 7.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-006anditsassumptions, inputs, outp

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-03-P0018"
state R -> R1
node N1
representation JP(PINK-03-P0018)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 18 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pin

NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

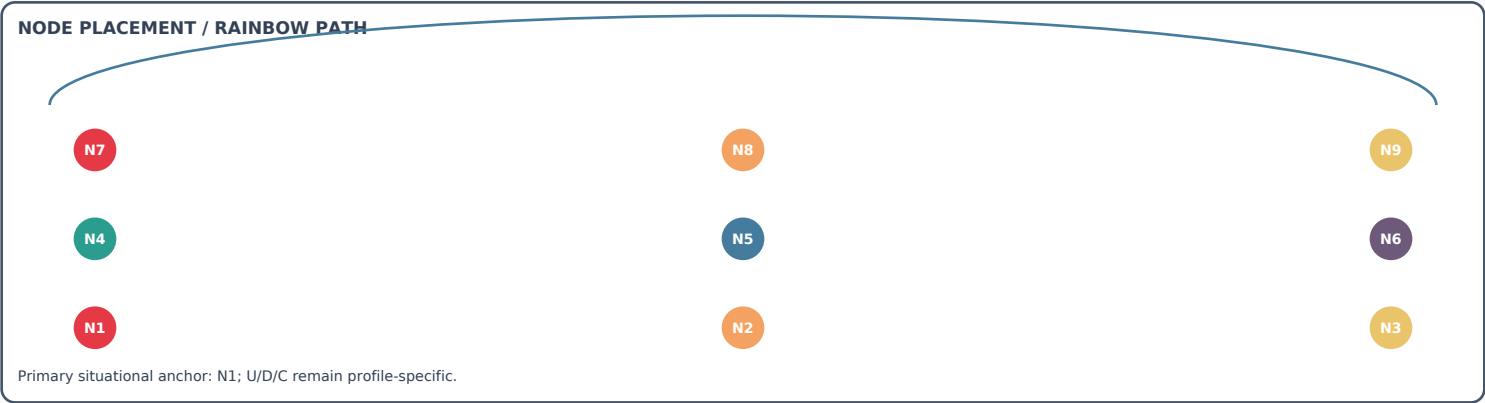
Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 19 of 106. Chapter 8 F-007 - Anti-spike gate Exact expression support>=3 of 5 AND 3 qualified windows Meaning. Singlespikecannottriggerfullreweighting. Bound manifestations.SISTER,ANGELS,JO Gateway stage.R1predictionandnormal-constellationcalibrationbeforeN1 Construct Formula-specific expression Module MJ.PBMEF.foundation.state_noise_allocation_memory Namespace MJ.PBMEF.foundation.state_noise_allocation_memory.F_007 Import MJ.P

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_8_F_007_Anti_spike_g
reference "PINK-03-P0019"
state R -> R1
node N1
representation JP(PINK-03-P0019)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 19 of 106. Chapter 8 F-007 - Anti-spike gate Exact expressio
```



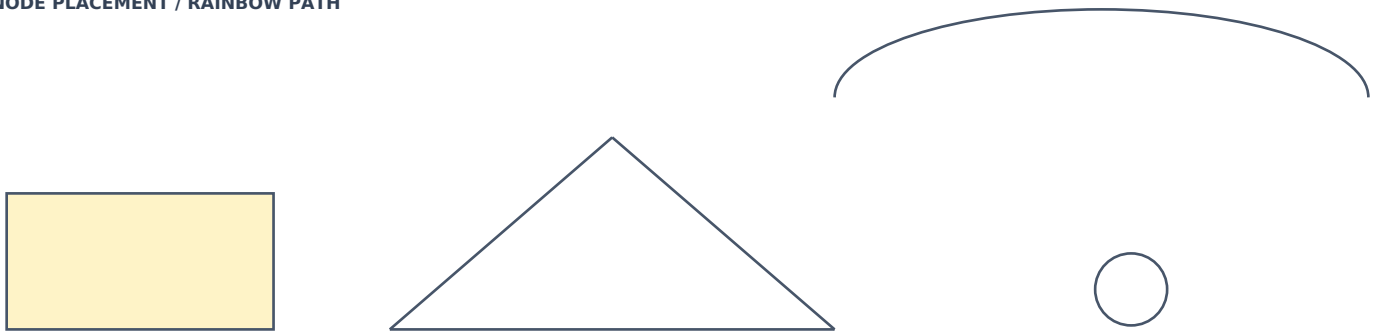
R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 20 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper II - F001-F050 8.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-007anditsassumptions, inputs, outp

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-03-P0020"
state R -> R1
node N1
representation JP(PINK-03-P0020)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 20 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pin
```

NODE PLACEMENT / RAINBOW PATH



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 21 of 106.
Chapter 9 F-008 - Prediction gain Exact expression $g_i = 0.1 * (2/3)^{(i-1)}$
Meaning. Predictioninflucencedecaysacrossthenine-nodopath. Bound
manifestations.JP,SISTER,JO Gateway
stage.R1predictionandnormal-constellationcalibrationbeforeN1 Construct
Formula-specific expression Module
MJ.PBMEF.foundation.state_noise_allocation_memory Namespace
MJ.PBMEF.foundation.state_noise_allocation_memory.F_008 Import
MJ.PBMEF.Manifest,

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```

module MJ.Rainbow.Chapter_9_F_008_Prediction_g
reference "PINK-03-P0021"
state R -> R1
node N1
representation JP(PINK-03-P0021)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 21 of 106. Chapter 9 F-008 - Prediction gain Exact expressio

```

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 22 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper II - F001-F050 9.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-008anditsassumptions, inputs, outp

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-03-P0022"
state R -> R1
node N1
representation JP(PINK-03-P0022)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 22 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pin

Node Placement / Rainbow Path



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 23 of 106. Chapter 10 F-009 - Covariance update Exact expression $\Sigma_{next} = 0.9 \cdot \Sigma_{prev} + 0.1 \cdot e \cdot e^T$ Meaning. Positive-semidefinite sequential covariance. Bound manifestations. JP, MK, JO Gateway stage. R1 prediction and normal constellation calibration before N1 Construct Formula-specific expression Module MJ.PBMEF.foundation.state_noise_allocation_memory Namespace MJ.PBMEF.foundation.state_noise_allocation_memory.F_009 Import MJ.PBME

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.Chapter_10_F_009_Covariance_
reference "PINK-03-P0023"
state R -> R1
node N1
representation JP(PINK-03-P0023)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 23 of 106. Chapter 10 F-009 - Covariance update Exact expres
```

```

graph LR
    R((R)) --- R1((R1))
    R1 --- N1((N1))
    N1 --- U((U))
    U --- D((D))
    D --- C((C))
    C --- OUT((OUT))

```

R STATUS / OBSERVATION

SOURCE RULE / INTENT

PATH OF EXPRESSION

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-03-P0024"
state R -> R1
node N1
representation JP(PINK-03-P0024)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper Volume02 Formulas F001 F050.pdf, page 24 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pin
```

Node Placement / Rainbow Path



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

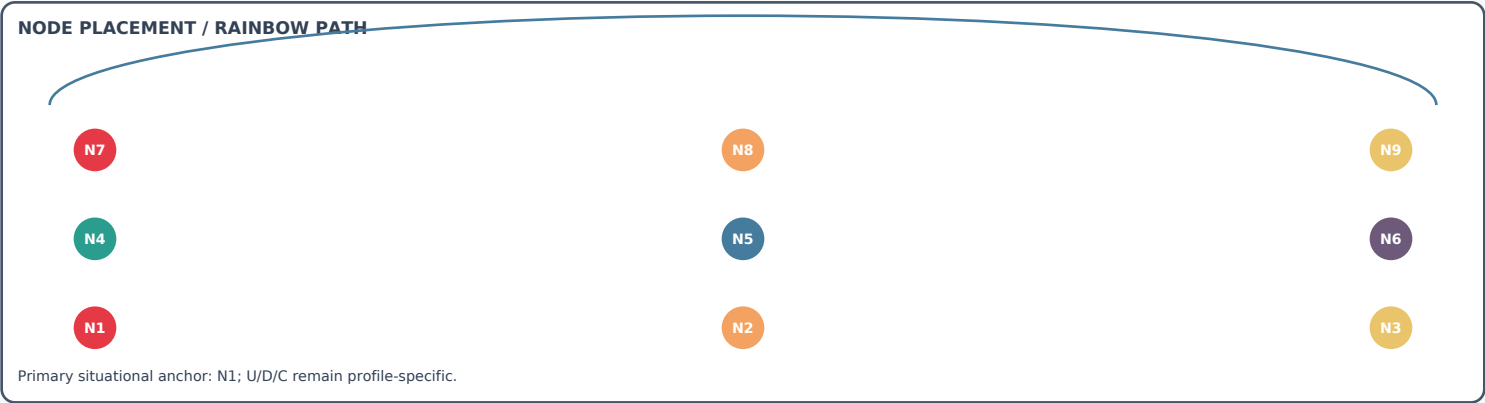
Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 25 of 106. Chapter 11 F-010 - Shadow depth Exact expression H = sqrt(lambda_max(Sigma)) Meaning. Uncertaintydepth. Bound manifestations.MK,SISTER,EVE Gateway stage.R1predictionandnormal-constellationcalibrationbeforeN1 Construct Formula-specific expression Module MJ.PBMEF.foundation.state_noise_allocation_memory Namespace MJ.PBMEF.foundation.state_noise_allocation_memory.F_010 Import MJ.PBMEF.Manifest,MJ.PBMEF.Formulas,MJ.PBMEF

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.Chapter_11_F_010_Shadow_dept
reference "PINK-03-P0025"
state R -> R1
node N1
representation JP(PINK-03-P0025)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 25 of 106. Chapter 11 F-010 - Shadow depth Exact expression
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 26 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper II - F001-F050 11.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-010anditsassumptions, inputs, out

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-03-P0026"
state R -> R1
node N1
representation JP(PINK-03-P0026)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 26 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pin
```


NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 27 of 106. Chapter 12 F-011 - Shadow growth rate Exact expression $v_{\text{shadow}} = (H_{\text{next}} - H_{\text{prev}}) / dt$ Meaning. Rate of uncertainty expansion or resolution. Bound manifestations. MK, SISTER, JO Gateway stage. R1 prediction and normal constellation calibration before N1 Construct Formula-specific expression Module MJ.PBMEF.foundation.state_noise_allocation_memory Namespace MJ.PBMEF.foundation.state_noise_allocation_memory.F_011 Import MJ.PBMEF.Manife

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_12_F_011_Shadow_grow
reference "PINK-03-P0027"
state R -> R1
node N1
representation JP(PINK-03-P0027)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 27 of 106. Chapter 12 F-011 - Shadow growth rate Exact expre
```

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 28 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper II - F001-F050 12.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-011anditsassumptions, inputs, out

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-03-P0028"
state R -> R1
node N1
representation JP(PINK-03-P0028)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 28 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pin

NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 29 of 106. Chapter 13 F-012 - Front-end allocation Exact expression a0 = 48383829/100000000 Meaning. ExactinitialN1logicalallocation. Bound manifestations.Bangel JP,JO,M3 Gateway stage.N1prediction-firstallocation,M3routing,andG123reconciliation Construct Formula-specific expression Module MJ.PBMEF.foundation.state_noise_allocation_memory Namespace MJ.PBMEF.foundation.state_noise_allocation_memory.F_012 Import MJ.PBMEF.Manifest

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_13_F_012_Front_end_a
reference "PINK-03-P0029"
state R -> R1
node N1
representation JP(PINK-03-P0029)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 29 of 106. Chapter 13 F-012 - Front-end allocation Exact exp
```

Node Placement / Rainbow Path



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 30 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper II - F001-F050 13.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-012anditsassumptions, inputs, out

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-03-P0030"
state R -> R1
node N1
representation JP(PINK-03-P0030)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 30 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pin

NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 31 of 106.
Chapter 14 F-013 - Front-end reserve Exact expression $r_0 = 51616171/100000000$ Meaning. Exactlogicalreserve. Bound manifestations.JP,JO,M3 Gateway stage.JPcanonicalrepresentation,MKapplicability,JOproof,andboundedMjoutput Construct Formula-specific expression Module MJ.PBMEF.foundation.state_noise_allocation_memory Namespace MJ.PBMEF.foundation.state_noise_allocation_memory.F_013 Import MJ.PBMEF.Manifest,MJ.PBMEF.Form

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```

module MJ.Rainbow.Chapter_14_F013_Front_end_r
reference "PINK-03-P0031"
state R -> R1
node N1
representation JP(PINK-03-P0031)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper Volume02 Formulas F001 F050.pdf, page 31 of 106. Chapter 14 F-013 - Front-end reserve Exact expres

```

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 32 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper II - F001-F050 14.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-013anditsassumptions, inputs, out

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-03-P0032"
state R -> R1
node N1
representation JP(PINK-03-P0032)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 32 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pin

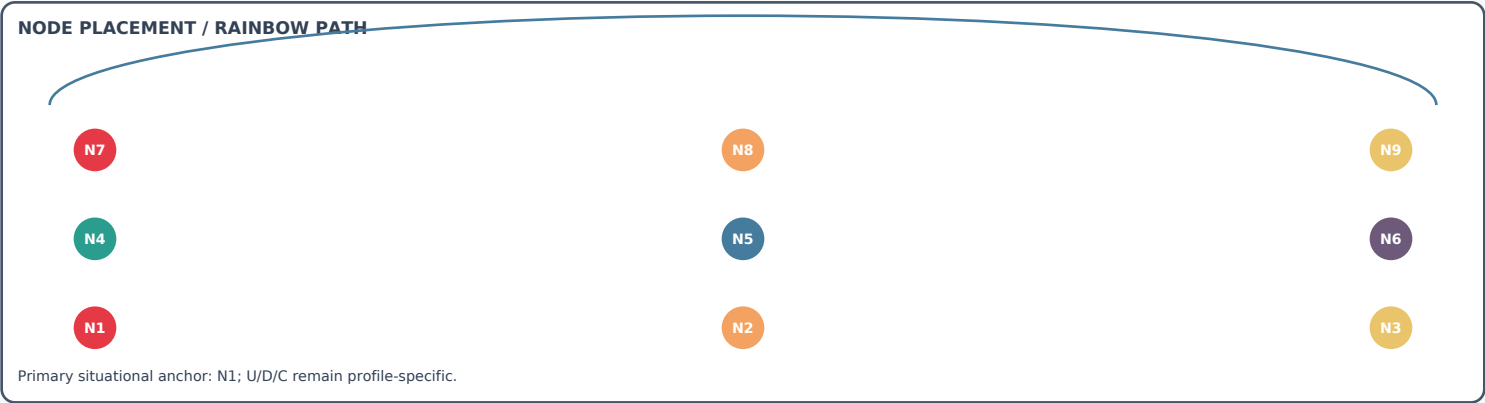


R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 33 of 106. Chapter 15 F-014 - Bounded allocation update Exact expression $w_{next} = projection((2/3)w + (1/3)w_{target})$ Meaning. Nonnegative,sum-to-one,per-stepchange ≤ 0.1 . Bound manifestations.JP,JO,M3 Gateway stage.N1prediction-firstallocation,M3routing,andG123reconciliation Construct Formula-specific expression Module MJ.PBMEF.foundation.state_noise_allocation_memory Namespace MJ.PBMEF.foundation.state_noise_allocation_memory.F

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> Mj bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_15_F_014_Bounded_all
reference "PINK-03-P0033"
state R -> R1
node N1
representation JP(PINK-03-P0033)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 33 of 106. Chapter 15 F-014 - Bounded allocation update Exac
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 34 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper II - F001-F050 15.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-014anditsassumptions, inputs, out

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-03-P0034"
state R -> R1
node N1
representation JP(PINK-03-P0034)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 34 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pin
```


Node Placement / Rainbow Path



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 35 of 106. Chapter 16 F-015 - Request memory Exact expression M_request = $\lambda_{\hat{}} \cdot \text{bytes_per_request} \cdot \text{latency_hat}$ Meaning. Predictedrequestmemory. Bound manifestations.JO,M3,MJOS Gateway stage.N1prediction-firstallocation,M3routing,andG123reconciliation Construct Formula-specific expression Module MJ.PBMEF.foundation.state_noise_allocation_memory Namespace MJ.PBMEF.foundation.state_noise_allocation_memory.F_015 Import MJ.P

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.Chapter_16_F_015_Request_mem
reference "PINK-03-P0035"
state R -> R1
node N1
representation JP(PINK-03-P0035)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 35 of 106. Chapter 16 F-015 - Request memory Exact expressio
```

```

graph LR
    R((R)) --- R1((R1))
    R1 --- N1((N1))
    N1 --- U((U))
    U --- D((D))
    D --- C((C))
    C --- OUT((OUT))

```

R STATUS / OBSERVATION

SOURCE RULE / INTENT

PATH OF EXPRESSION

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-03-P0036"
state R -> R1
node N1
representation JP(PINK-03-P0036)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper Volume02 Formulas F001 F050.pdf, page 36 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pin
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 37 of 106. Chapter 17 F-016 - Memory preallocation Exact expression $M_{pre} = M_{request} + M_{sync} + M_{residual} + M_{evidence} + M_{headroom}$ Meaning. Preallocatebeforereserveexhaustion. Bound manifestations.JO,M3,SISTER Gateway stage.N1prediction-firstallocation,M3routing,andG123reconciliation Construct Formula-specific expression Module MJ.PBMEF.foundation.state_noise_allocation_memory Namespace MJ.PBMEF.foundation.state_noise_alloca

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_17_F_016_Memory_pre
reference "PINK-03-P0037"
state R -> R1
node N1
representation JP(PINK-03-P0037)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 37 of 106. Chapter 17 F-016 - Memory preallocation Exact exp
```

```

graph LR
    R((R)) --- R1((R1))
    R1 --- N1((N1))
    N1 --- U((U))
    U --- D((D))
    D --- C((C))
    C --- OUT((OUT))
  
```

R STATUS / OBSERVATION

SOURCE RULE / INTENT

PATH OF EXPRESSION

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-03-P0038"
state R -> R1
node N1
representation JP(PINK-03-P0038)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper Volume02 Formulas F001 F050.pdf, page 38 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pin
```

NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 39 of 106. Chapter 18 F-017 - Hard flush Exact expression QUIESCE -> SEAL -> CHECKPOINT -> DETACH -> RECLAIM Meaning. Nosilentdeletionorunclearedreuse. Bound manifestations.JO,M3,MJOS Gateway stage.JPcanonicalrepresentation,MKapplicability,JOproof,andboundedMJoutput Construct Formula-specific expression Module MJ.PBMEF.foundation.state_noise_allocation_memory Namespace MJ.PBMEF.foundation.state_noise_allocation_memory.F_017 Imp

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```

module MJ.Rainbow.Chapter_18_F_017_Hard_flush_
reference "PINK-03-P0039"
state R -> R1
node N1
representation JP(PINK-03-P0039)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 39 of 106. Chapter 18 F-017 - Hard flush Exact expression QU
    
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 40 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper II - F001-F050 18.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-017anditsassumptions, inputs, out

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-03-P0040"
state R -> R1
node N1
representation JP(PINK-03-P0040)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 40 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pin
```

Node Placement / Rainbow Path

R

R1

N1

U

D

C

OUT

Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

P preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 41 of 106. Chapter 19 F-018 - Charge balance Exact expression $dQ/dt = I_{\text{intake}} - I_{\text{leak}} - I_{\text{release}}$ Meaning. Static-intakechargeaccounting. Bound manifestations.JP,MK,EVE,JO Gateway stage.JPcanonicalrepresentation,MKapplicability,JOproof,andboundedMJoutput Construct Formula-specific expression Module MJ.PBMEF.physics.balance_containment_evidence Namespace MJ.PBMEF.physics.balance_containment_evidence.F_018 Import MJ.PBMEF.Manif

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

module MJ.Rainbow.Chapter_19_F_018_Charge_bala
reference "PINK-03-P0041"
state R -> R1
node N1
representation JP(PINK-03-P0041)
physics MK(classify, units, boundary, uncertainty)
verify JO(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 41 of 106. Chapter 19 F-018 - Charge balance Exact expressio

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 42 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper II - F001-F050 19.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-018anditsassumptions, inputs, out

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-03-P0042"
state R -> R1
node N1
representation JP(PINK-03-P0042)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 42 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pin

Node Placement / Rainbow Path

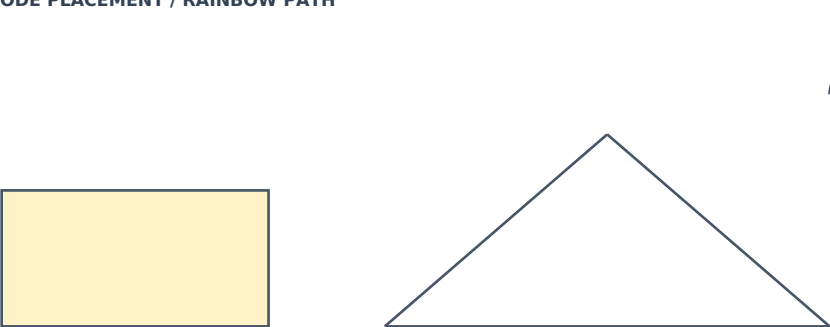
Rectangle

Cone

Sister umbrella

EVE/lake

next-cycle re-entry



R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

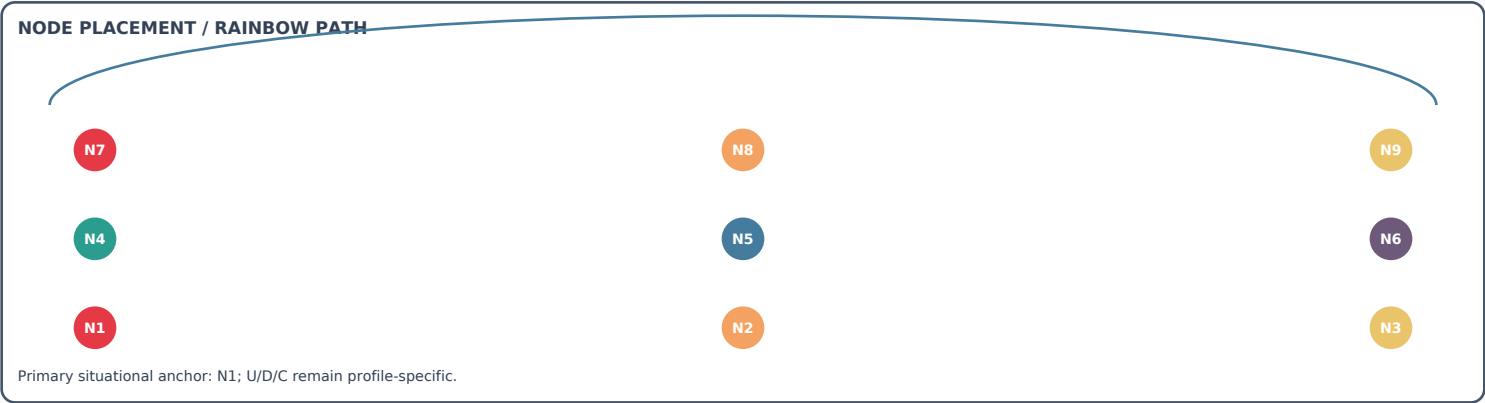
Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 43 of 106. Chapter 20 F-019 - Capacitor energy Exact expression $E = 0.5 * C * V^2$ Meaning. Validonlyforevidencedconstantcapacitance. Bound manifestations.JP,MK,JO Gateway stage.JPcanonicalrepresentation,MKapplicability,JOproof,andboundedMJoutput Construct Formula-specific expression Module MJ.PBMEF.physics.balance_containment_evidence Namespace MJ.PBMEF.physics.balance_containment_evidence.F_019 Import MJ.PBMEF.Manifest,MJ.PBMEF.Fo

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

module MJ.Rainbow.Chapter_20_F_019_Capacitor_e
reference "PINK-03-P0043"
state R -> R1
node N1
representation JP(PINK-03-P0043)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 43 of 106. Chapter 20 F-019 - Capacitor energy Exact express



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 44 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper II - F001-F050 20.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-019anditsassumptions, inputs, out

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-03-P0044"
state R -> R1
node N1
representation JP(PINK-03-P0044)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 44 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pin
```

Node Placement / Rainbow Path

R

R1

N1

U

D

C

OUT

Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

Source Rule / Intent

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 45 of 106. Chapter 21 F-020 - General stored energy Exact expression $E = \int V(q) dq$ Meaning. Generalcharge-storageenergy. Bound manifestations.JP,MK Gateway stage.JPcanonicalrepresentation,MKapplicability,JOproof,andboundedMJoutput Construct Formula-specific expression Module MJ.PBMEF.physics.balance_containment_evidence Namespace MJ.PBMEF.physics.balance_containment_evidence.F_020 Import MJ.PBMEF.Manifest,MJ.PBMEF.Formula

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.Chapter_21_F_020_General_sto
reference "PINK-03-P0045"
state R -> R1
node N1
representation JP(PINK-03-P0045)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 45 of 106. Chapter 21 F-020 - General stored energy Exact ex
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 46 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper II - F001-F050 21.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-020anditsassumptions, inputs, out

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-03-P0046"
state R -> R1
node N1
representation JP(PINK-03-P0046)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 46 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pin
```

Node Placement / Rainbow Path

R

R1

N1

U

D

C

OUT

Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 47 of 106. Chapter 22 F-021 - Energy balance Exact expression $r_E = E_{in} - \Delta E_{storage} - E_{delivered} - E_{containment} - E_{loss}$ Meaning. Energyresidualmustbeinsideuncertainty. Bound manifestations.MK,JO,MERMAID Gateway stage.JPcanonicalrepresentation,MKapplicability,JOproof,andboundedMJoutput Construct Formula-specific expression Module MJ.PBMEF.physics.balance_containment_evidence Namespace MJ.PBMEF.physics.balance_containmen

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

module MJ.Rainbow.Chapter_22_F_021_Energy_bala
reference "PINK-03-P0047"
state R -> R1
node N1
representation JP(PINK-03-P0047)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 47 of 106. Chapter 22 F-021 - Energy balance Exact expressio

NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 48 of 106.
PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper II - F001-F050
22.2 Lifecycle from request to final output 1. R/R0:
receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin:
parsemodules,namespaces,declarations,literals,types,constraints,anddirectives.
3. Elsa:
recoversemanticpurpose,variablemeaning,andambiguitywithoutcreatingauthority.
4. JP:createethcanonicalCAPOrF-021anditsassumptions,inputs,out

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-03-P0048"
state R -> R1
node N1
representation JP(PINK-03-P0048)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper.Volume02 Formulas F001 F050.pdf, page 48 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pin
```

NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 49 of 106.
Chapter 23 F-022 - Mass balance Exact expression $r_M = M_initial + M_inputs - M_final - M_outputs$ Meaning. Physicalmassconservation. Bound manifestations.MK,EVE,JO,MERMAID Gateway stage,Jpcanonicalrepresentation,MkApplicability,JOproof,andboundedMJoutput Construct Formula-specific expression Module MJ.PBMEF.physics.balance_containment_evidence Namespace MJ.PBMEF.physics.balance_containment_evidence.F_022 Import MJ.PB

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_23_F_022_Mass_balanc
reference "PINK-03-P0049"
state R -> R1
node N1
representation JP(PINK-03-P0049)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper Volume02 Formulas F001 F050.pdf, page 49 of 106. Chapter 23 F-022 - Mass balance Exact expression
```

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 50 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper II - F001-F050 23.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-022anditsassumptions, inputs, out

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-03-P0050"
state R -> R1
node N1
representation JP(PINK-03-P0050)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 50 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pin



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 51 of 106. Chapter 24 F-023 - EVE screen balance Exact expression M_screen_in = M_captured + M_passed + M_retained + r_screen Meaning. Screencaptureneverassumesperfectretention. Bound manifestations.EVE,MK,JO,MERMAID Gateway stage.Sister/EVE/MK/JOcontainmentorsimulationevidencebeforeMJpermit Construct Formula-specific expression Module MJ.PBMEF.physics.balance_containment_evidence Namespace MJ.PBMEF.physics.balance_containment_

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_24_F_023_EVE_screen_
reference "PINK-03-P0051"
state R -> R1
node N1
representation JP(PINK-03-P0051)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 51 of 106. Chapter 24 F-023 - EVE screen balance Exact expre
```

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 52 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper II - F001-F050 24.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-023anditsassumptions, inputs, out

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-03-P0052"
state R -> R1
node N1
representation JP(PINK-03-P0052)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 52 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pin

NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 53 of 106. Chapter 25 F-024 - EVE evaporation Exact expression M_{evap} = integral $\int_m dA dt$ Meaning. Evaporativemassfromfluxacrossareaandtime. Bound manifestations.EVE,MK,JO Gateway stage.JPcanonicalrepresentation,MKapplicability,JOproof,andboundedMJoutput Construct Formula-specific expression Module MJ.PBMEF.physics.balance_containment_evidence Namespace MJ.PBMEF.physics.balance_containment_evidence.F_024 Import MJ.PBM

PATH OF EXPRESSION

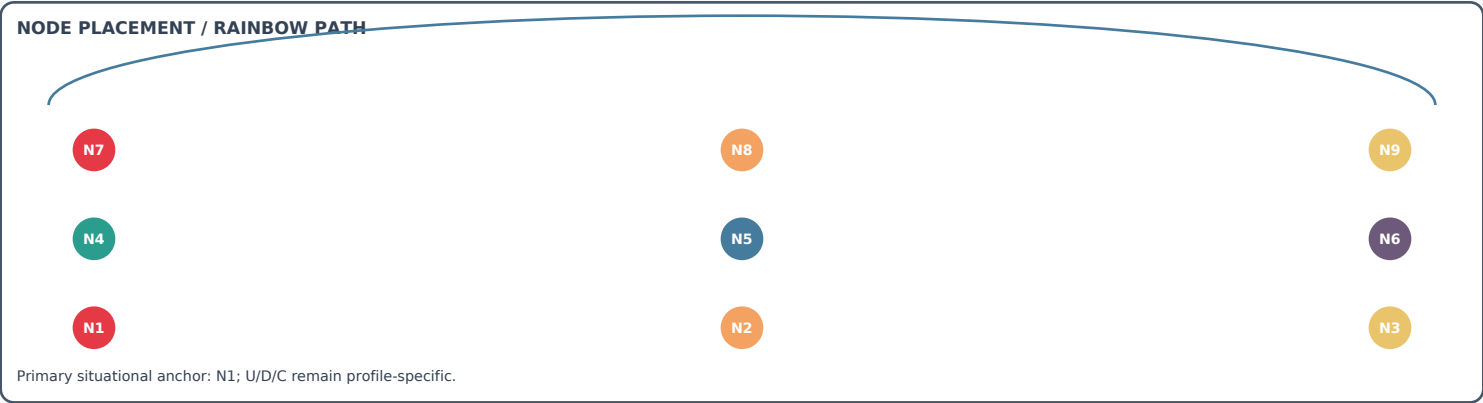
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```

module MJ.Rainbow.Chapter_25_F_024_EVE_evapora
reference "PINK-03-P0053"
state R -> R1
node N1
representation JP(PINK-03-P0053)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 53 of 106. Chapter 25 F-024 - EVE evaporation Exact expressi

```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 54 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper II - F001-F050 25.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-024anditsassumptions, inputs, out

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-03-P0054"
state R -> R1
node N1
representation JP(PINK-03-P0054)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 54 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pin
```

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

Source Rule / Intent

Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 55 of 106. Chapter 26 F-025 - Upward force Exact expression $F_z = qE_z + F_b - mg - D_z - F_{\text{contact}} - F_{\text{adhesion}}$ Meaning. Upward motion requires positive conservative lower bound. Bound manifestations. MK, EVE, BELLE Gateway stage. JP canonical representation, MK applicability, JO proof, and bounded MJ output Construct Formula-specific expression Module MJ.PBMEF.physics.balance_containment_evidence Namespace MJ.PBMEF.physics.balance_containment_ev

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_26_F_025_Upward_forc
reference "PINK-03-P0055"
state R -> R1
node N1
representation JP(PINK-03-P0055)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 55 of 106. Chapter 26 F-025 - Upward force Exact expression
```

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 56 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper II - F001-F050 26.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-025anditsassumptions, inputs, out

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-03-P0056"
state R -> R1
node N1
representation JP(PINK-03-P0056)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 56 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pin

Node Placement / Rainbow Path



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 57 of 106. Chapter 27 F-026 - Coordinate mapping Exact expression $p_P(x,y,z)=o_P+x*a_P+y*b_P+z*c_P$ Meaning. Normalized topology to profile physical coordinates. Bound manifestations, JP, MK, BELLE, JO Gateway stage. JP canonical representation, MK applicability, JO proof, and bounded MJ output Construct Formula-specific expression Module MJ.PBMEF.physics.balance_containment_evidence Namespace MJ.PBMEF.physics.balance_containment_evidence.F_026 Imp

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.Chapter_27_F_026_Coordinate_
reference "PINK-03-P0057"
state R -> R1
node N1
representation JP(PINK-03-P0057)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 57 of 106. Chapter 27 F-026 - Coordinate mapping Exact expre
```

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 58 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper II - F001-F050 27.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-026anditsassumptions, inputs, out

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-03-P0058"
state R -> R1
node N1
representation JP(PINK-03-P0058)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 58 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pin



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 59 of 106. Chapter 28 F-027 - Sister physical umbrella count Exact expression $N_U = \max_k k \text{ ceil}(E_k / ((1-h_k) * C_{Uk}))$ Meaning. Canonicalpre-Pearlphysicalcontainmentcount;requiresmeasuredprofile-specificcapacityandheadroom. Bound manifestations.SISTER,MK,JO,M3 Gateway stage.Sister/EVE/MK/JOcontainmentorsimulationevidencebeforeMJpermit Construct Formula-specific expression Module MJ.PBMEF.physics.balance_containment_evidence Namesp

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_28_F_027_Sister_phys
reference "PINK-03-P0059"
state R -> R1
node N1
representation JP(PINK-03-P0059)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 59 of 106. Chapter 28 F-027 - Sister physical umbrella count
```

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

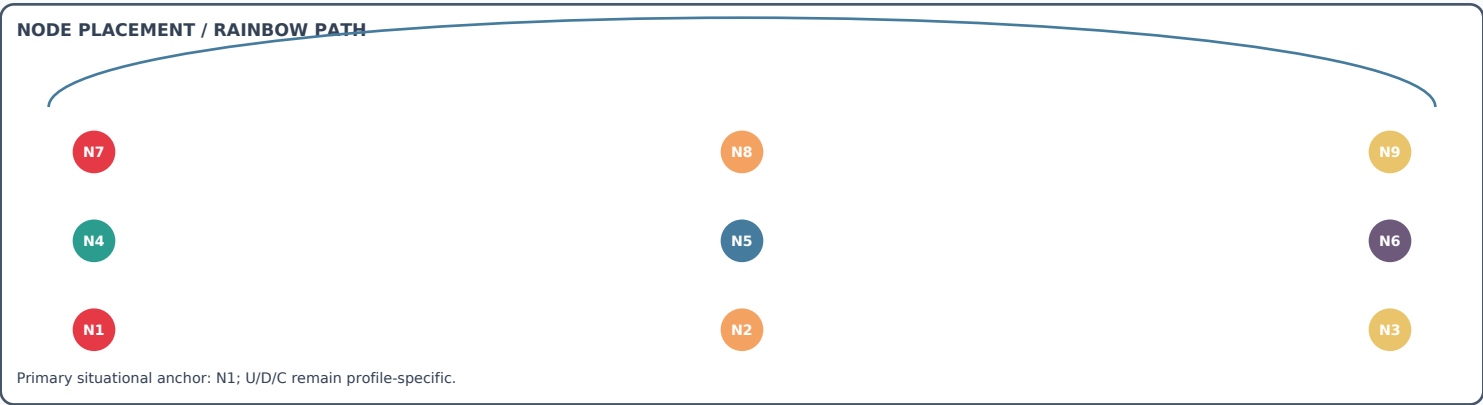
Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 60 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper II - F001-F050 28.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-027anditsassumptions, inputs, out

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-03-P0060"
state R -> R1
node N1
representation JP(PINK-03-P0060)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 60 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pin



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 61 of 106. Chapter 29 F-028 - Byte balance Exact expression $r_B = B_{\text{alloc}} - B_{\text{active}} - B_{\text{released}} - B_{\text{retained}} - B_{\text{exported}} - B_{\text{compacted}}$ Meaning. Discrete memory reconciliation requires zero residual unless transformed. Bound manifestations, JO, M3, MERMAID Gateway stage. JP canonical representation, MK applicability, JO proof, and bounded MJ output Construct Formula-specific expression Module MJ.PBMEF.physics.balance_containment_evidence Namespace MJ.PBMEF

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_29_F_028_Byte_balance
reference "PINK-03-P0061"
state R -> R1
node N1
representation JP(PINK-03-P0061)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 61 of 106. Chapter 29 F-028 - Byte balance Exact expression
```

Node Placement / Rainbow Path



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 62 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper II - F001-F050 29.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-028anditsassumptions, inputs, out

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-03-P0062"
state R -> R1
node N1
representation JP(PINK-03-P0062)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 62 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pin
```

Node Placement / Rainbow Path

Rectangle

Cone

Sister umbrella

EVE/lake

next-cycle re-entry



R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 63 of 106. Chapter 30 F-029 - Residual consequence Exact expression C_B = integral B_residual(t)dt Meaning. Time-weightedresidualmemoryconsequence. Bound manifestations.JO,M3,MERMAID Gateway stage.JPcanonicalrepresentation,MKapplicability,JOproof,andboundedMJoutput Construct Formula-specific expression Module MJ.PBMEF.physics.balance_containment_evidence Namespace MJ.PBMEF.physics.balance_containment_evidence.F_029 Import MJ.PB

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.Chapter_30_F_029_Residual_co
reference "PINK-03-P0063"
state R -> R1
node N1
representation JP(PINK-03-P0063)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 63 of 106. Chapter 30 F-029 - Residual consequence Exact exp
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 64 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper II - F001-F050 30.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-029anditsassumptions, inputs, out

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-03-P0064"
state R -> R1
node N1
representation JP(PINK-03-P0064)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 64 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pin
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 65 of 106. Chapter 31 F-030 - Protected liquidity Exact expression L_protected_H = O_near_H+R_emergency_H+R_tax_H+R_fees_H+U_cash_H Meaning. Liquidityfirst. Bound manifestations.SHIVA,MERMAID,MK,JO Gateway stage.Mermaid/ShivafinancialanalysisandreconciliationbeforeMJdecision Construct Formula-specific expression Module MJ.PBMEF.finance.portfolio_mk_integrity Namespace MJ.PBMEF.finance.portfolio_mk_integrity.F_030 Import MJ.PBME

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_31_F_030_Protected_l
reference "PINK-03-P0065"
state R -> R1
node N1
representation JP(PINK-03-P0065)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 65 of 106. Chapter 31 F-030 - Protected liquidity Exact expr
```

Node Placement / Rainbow Path



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 66 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper II - F001-F050 31.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-030anditsassumptions, inputs, out

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-03-P0066"
state R -> R1
node N1
representation JP(PINK-03-P0066)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 66 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pin

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 67 of 106. Chapter 32 F-031 - Investable surplus Exact expression $S_{investable_L} = \max(0, L_{available_L-L_protected_H})$ Meaning. Onlysurplusmayenterriskanalysis. Bound manifestations.SHIVA,MERMAID,JO Gateway stage.JPcanonicalrepresentation,MKapplicability,JOproof,andboundedMJoutput Construct Formula-specific expression Module MJ.PBMEF.finance.portfolio_mk_integrity Namespace MJ.PBMEF.finance.portfolio_mk_integrity.F_031 Import MJ

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

module MJ.Rainbow.Chapter_32_F_031_Investable_
reference "PINK-03-P0067"
state R -> R1
node N1
representation JP(PINK-03-P0067)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 67 of 106. Chapter 32 F-031 - Investable surplus Exact expre

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 68 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper II - F001-F050 32.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-031anditsassumptions, inputs, out

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-03-P0068"
state R -> R1
node N1
representation JP(PINK-03-P0068)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 68 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pin

NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 69 of 106.
Chapter 33 F-032 - Risk-capital ceiling Exact expression $A_risk_max = \min(S_investable, L_L_risk, L_product, L_regulatory, L_custody, L_concentration)$
Meaning. Hardminimumacrossconstraints. Bound manifestations. SHIVA, MERMAID, MK, MJ Gateway stage. Mermaid/Shiva financial analysis and reconciliation before MJ decision Construct Formula-specific expression Module MJ.PBMEF.finance.portfolio_mk_integrity Namespace MJ.PBMEF.finance.port

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_33_F_032_Risk_capita
reference "PINK-03-P0069"
state R -> R1
node N1
representation JP(PINK-03-P0069)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper Volume02 Formulas F001 F050.pdf, page 69 of 106. Chapter 33 F-032 - Risk-capital ceiling Exact exp
```

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 70 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper II - F001-F050 33.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-032anditsassumptions, inputs, out

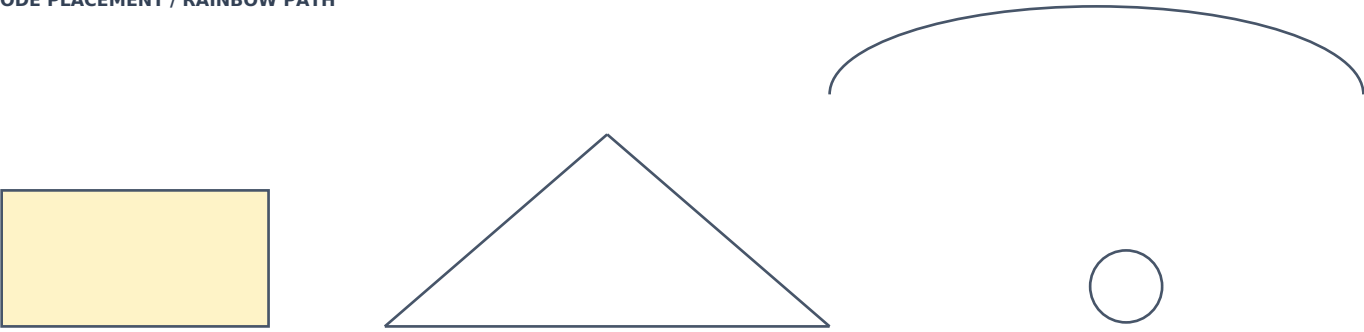
PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-03-P0070"
state R -> R1
node N1
representation JP(PINK-03-P0070)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 70 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pin

Node Placement / Rainbow Path



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 71 of 106. Chapter 34 F-033 - Portfolio concentration Exact expression $C_i = \text{abs}(V_i_H)/V_{\text{portfolio_L}}$ Meaning. Assetconcentration. Bound manifestations.SHIVA,MERMAID,JO Gateway stage.Mermaid/ShivafinancialanalysisandreconciliationbeforeMJdecision Construct Formula-specific expression Module MJ.PBMEF.finance.portfolio_mk_integrity Namespace MJ.PBMEF.finance.portfolio_mk_integrity.F_033 Import MJ.PBMEF.Manifest,MJ.PBMEF.Formulas,

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.Chapter_34_F_033_Portfolio_c
reference "PINK-03-P0071"
state R -> R1
node N1
representation JP(PINK-03-P0071)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 71 of 106. Chapter 34 F-033 - Portfolio concentration Exact
```



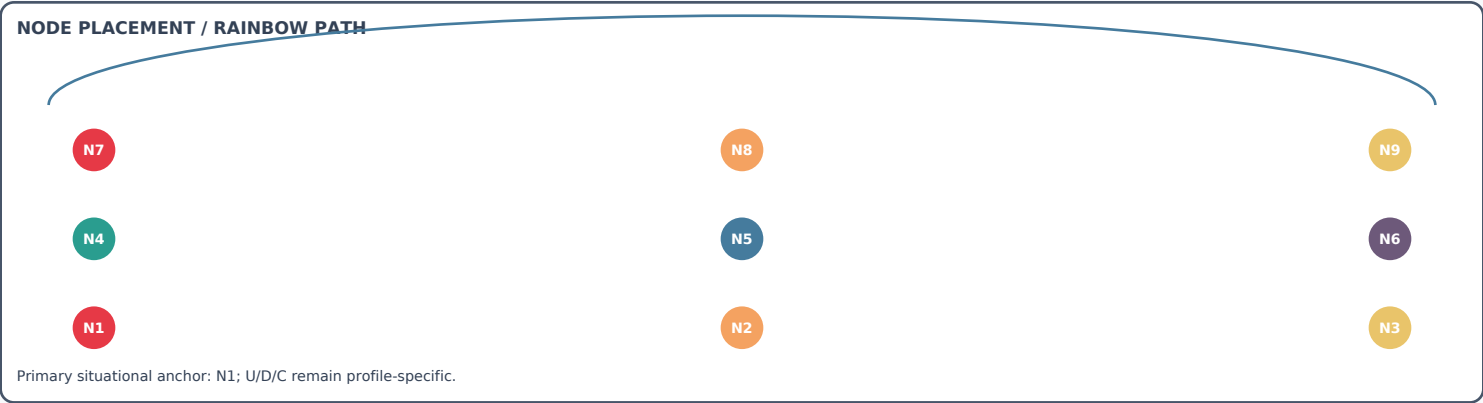
R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 72 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper II - F001-F050 34.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-033anditsassumptions, inputs, out

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-03-P0072"
state R -> R1
node N1
representation JP(PINK-03-P0072)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 72 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pin
```





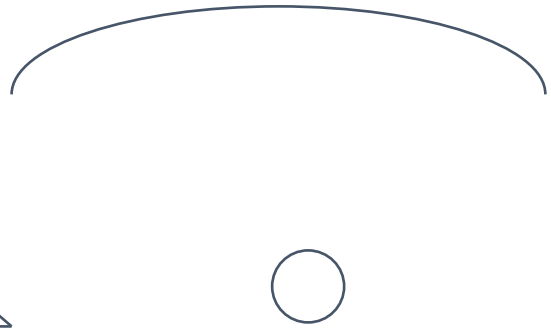
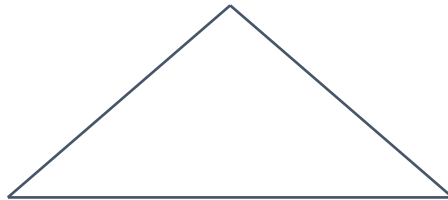
R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 74 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper II - F001-F050 35.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-034anditsassumptions, inputs, out

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-03-P0074"
state R -> R1
node N1
representation JP(PINK-03-P0074)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 74 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pin
```


NODE PLACEMENT / RAINBOW PATH



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

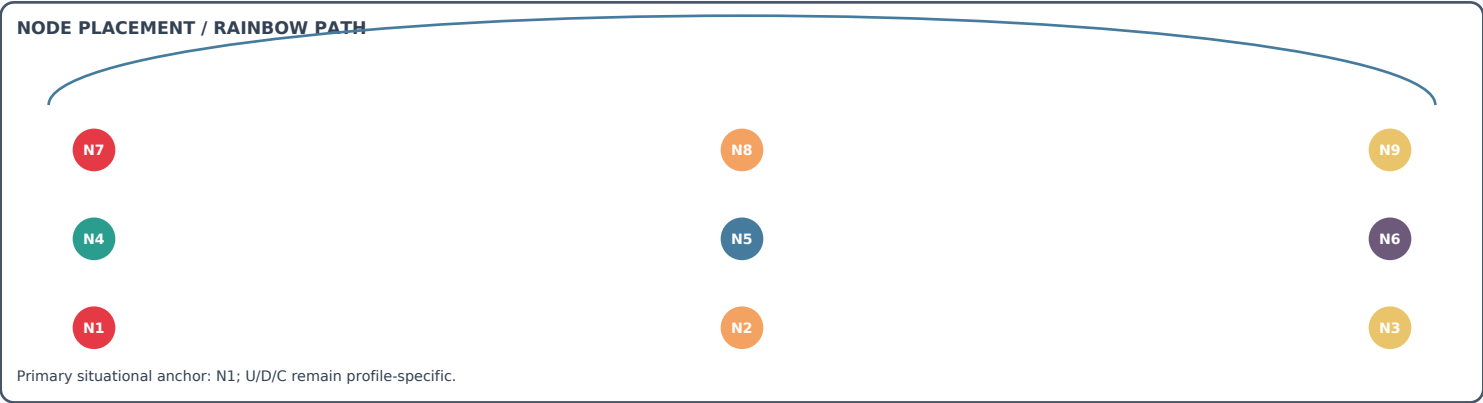
Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 75 of 106.
Chapter 36 F-035 - Capital friction Exact expression F_capital_H =
fees+spread+slippage+tax+custody+compliance+latency Meaning.
Typed transactional friction. Bound manifestations. MK, SHIVA, MERMAID Gateway
stage. Mermaid/Shiva financial analysis and reconciliation before MJ decision
Construct Formula-specific expression Module
MJ.PBMEF.finance.portfolio_mk_integrity Namespace
MJ.PBMEF.finance.portfolio_mk_integrity.F_035 Import

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_36_F_035_Capital_fri
reference "PINK-03-P0075"
state R -> R1
node N1
representation JP(PINK-03-P0075)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper.Volume02 Formulas F001 F050.pdf, page 75 of 106. Chapter 36 F-035 - Capital friction Exact express
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 76 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper II - F001-F050 36.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-035anditsassumptions, inputs, out

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-03-P0076"
state R -> R1
node N1
representation JP(PINK-03-P0076)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 76 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pin
```

Node Placement / Rainbow Path



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 77 of 106. Chapter 37 F-036 - Opportunity lower bound Exact expression O_L = Return_L-F_capital_H-RiskPenalty_H-LiquidityPenalty_H-RegulatoryUncertainty_H Meaning. Conservativeopportunityresult. Bound manifestations.SHIVA,MK,MERMAID,MJ Gateway stage.JPcanonicalrepresentation,MKapplicability,JOproof,andboundedMJoutput Construct Formula-specific expression Module MJ.PBMEF.finance.portfolio_mk_integrity Namespace MJ.PBMEF.finance.

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.Chapter_37_F_036_Opportunity
reference "PINK-03-P0077"
state R -> R1
node N1
representation JP(PINK-03-P0077)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 77 of 106. Chapter 37 F-036 - Opportunity lower bound Exact
```

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 78 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper II - F001-F050 37.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-036anditsassumptions, inputs, out

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-03-P0078"
state R -> R1
node N1
representation JP(PINK-03-P0078)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 78 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pin

NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 79 of 106. Chapter 38 F-037 - Abundance objective Exact expression A = $\sum(\alpha_i * P_i) - \sum(\beta_j * N_j)$ Meaning. Only valid with precommitted weights and compatible scales. Bound manifestations. SHIVA, MK, JO, MJ Gateway stage. JP canonical representation, MK applicability, JO proof, and bounded MJ output Construct Formula-specific expression Module MJ.PBMEF.finance.portfolio_mk_integrity Namespace MJ.PBMEF.finance.portfolio_mk_integrity.F_037 Import

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_38_F_037_Abundance_o
reference "PINK-03-P0079"
state R -> R1
node N1
representation JP(PINK-03-P0079)
physics MK(classify, units, boundary, uncertainty)
verify JO(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 79 of 106. Chapter 38 F-037 - Abundance objective Exact expr
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 80 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper II - F001-F050 38.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-037anditsassumptions, inputs, out

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-03-P0080"
state R -> R1
node N1
representation JP(PINK-03-P0080)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 80 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pin
```

NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

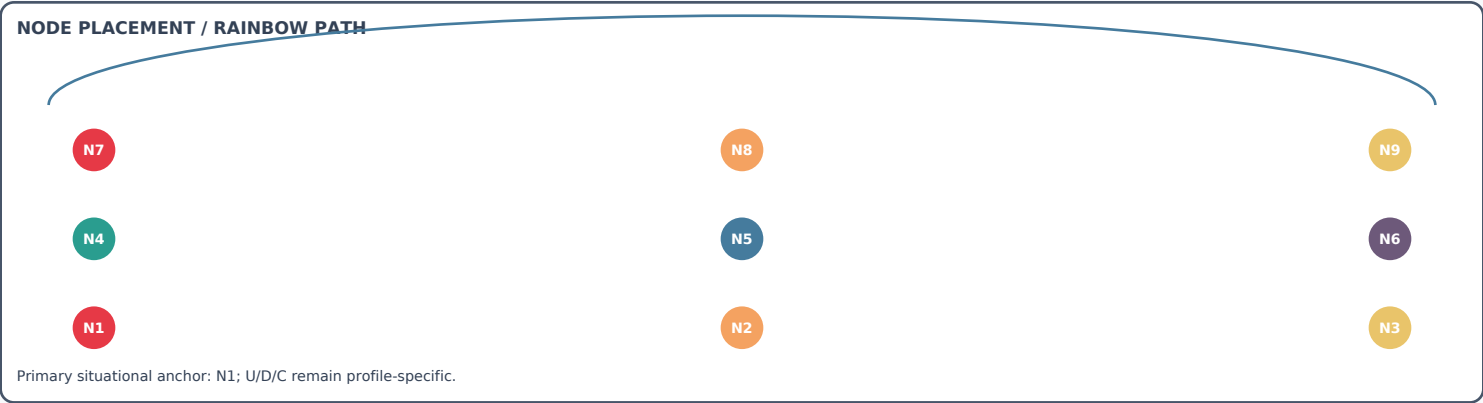
Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 81 of 106. Chapter 39 F-038 - SHIVAS eligible value Exact expression $V_{eligible_L} = \max(0, V_{verified_L-L_known_H-U_valuation_H})$ Meaning. Internalvaluationlowerbound. Bound manifestations.SHIVA,MERMAID,JO Gateway stage.Mermaid/ShivafinancialanalysisandreconciliationbeforeMJdecision Construct Formula-specific expression Module MJ.PBMEF.finance.portfolio_mk_integrity Namespace MJ.PBMEF.finance.portfolio_mk_integrity.F_038 Import MJ.

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_39_F_038_SHIVAS_elig
reference "PINK-03-P0081"
state R -> R1
node N1
representation JP(PINK-03-P0081)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 81 of 106. Chapter 39 F-038 - SHIVAS eligible value Exact ex
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 82 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper II - F001-F050 39.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-038anditsassumptions, inputs, out

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-03-P0082"
state R -> R1
node N1
representation JP(PINK-03-P0082)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 82 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pin
```


NODE PLACEMENT / RAINBOW PATH



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 83 of 106. Chapter 40 F-039 - SHIVAS ceiling Exact expression N_max=floor(V_eligible_L/B_unit_H) Meaning. Onlywhenbacking,rights,classification,andevidenceareknown. Bound manifestations.SHIVA,MERMAID,MJ Gateway stage.Mermaid/ShivafinancialanalysisandreconciliationbeforeMJdecision Construct Formula-specific expression Module MJ.PBMEF.finance.portfolio_mk_integrity Namespace MJ.PBMEF.finance.portfolio_mk_integrity.F_039 Import MJ

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_40_F_039_SHIVAS_ceil
reference "PINK-03-P0083"
state R -> R1
node N1
representation JP(PINK-03-P0083)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 83 of 106. Chapter 40 F-039 - SHIVAS ceiling Exact expressio
```

Node Placement / Rainbow Path



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

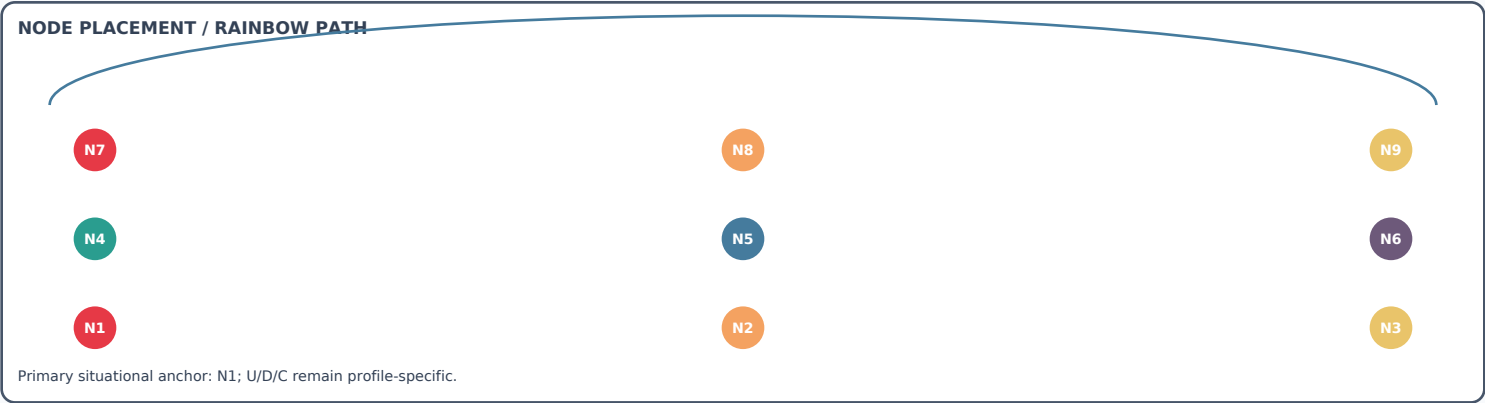
Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 84 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper II - F001-F050 40.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-039anditsassumptions, inputs, out

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-03-P0084"
state R -> R1
node N1
representation JP(PINK-03-P0084)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 84 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pin



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 85 of 106. Chapter 41 F-040 - MK state model Exact expression $x[t+1]=F(x[t],u[t],\theta,e[t])+w[t]$; $y[t]=H(x[t])+v[t]$ Meaning. Generalphysicsstateandobservationrepresentation. Bound manifestations.MK,JP,JO Gateway stage.JPcanonicalrepresentation,MKapplicability,JOproof,andboundedMJoutput Construct Formula-specific expression Module MJ.PBMEF.finance.portfolio_mk_integrity Namespace MJ.PBMEF.finance.portfolio_mk_integrity.F_040 Im

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> Mj bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_41_F_040_MK_state_mo
reference "PINK-03-P0085"
state R -> R1
node N1
representation JP(PINK-03-P0085)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 85 of 106. Chapter 41 F-040 - MK state model Exact expressio
```



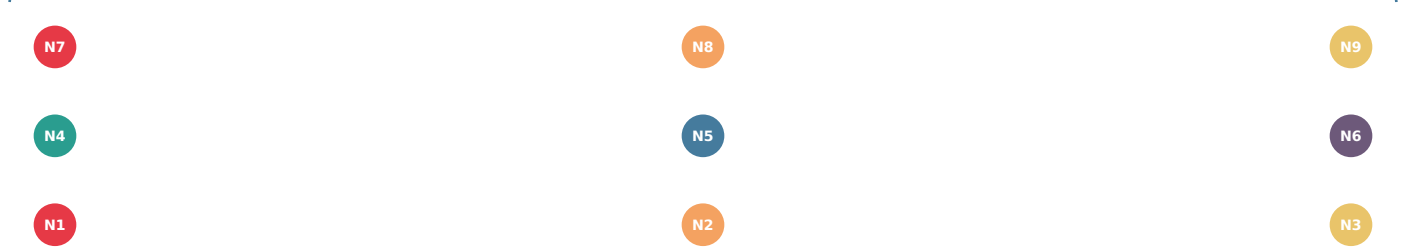
R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 86 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper II - F001-F050 41.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-040anditsassumptions, inputs, out

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-03-P0086"
state R -> R1
node N1
representation JP(PINK-03-P0086)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 86 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pin
```

NODE PLACEMENT / RAINBOW PATH



Primary situational anchor: N1; U/D/C remain profile-specific.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

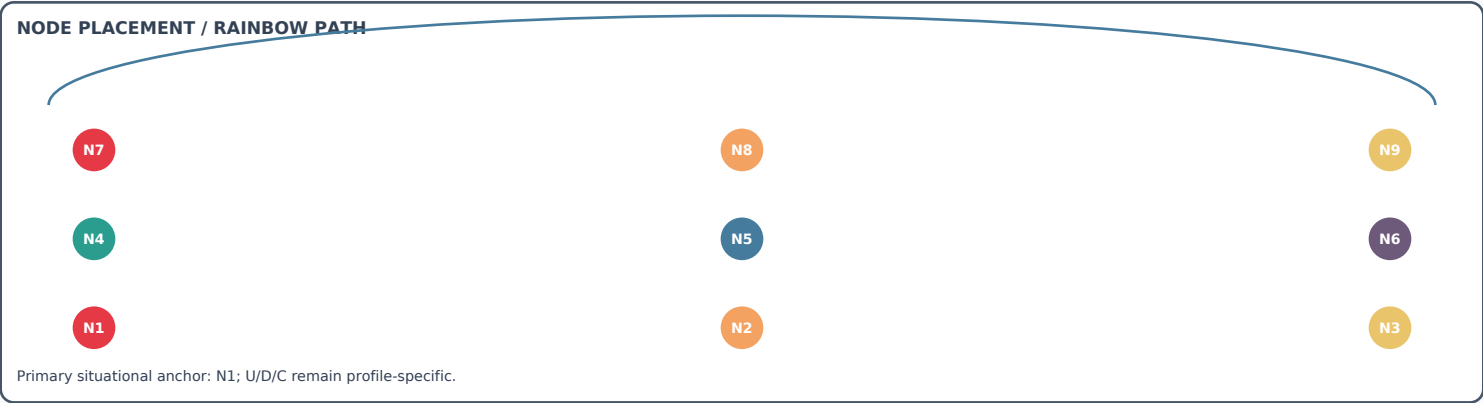
Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 87 of 106.
Chapter 42 F-041 - Dimensional integrity Exact expression $\dim(\text{LHS})=\dim(\text{RHS})$
Meaning. Everyphysicalequalitymustbedimensionallyvalid. Bound
manifestations.MK,JO Gateway
stage.JPcanonicalrepresentation,MKapplicability,JOproof,andboundedMjoutput
Construct Formula-specific expression Module
MJ.PBMEF.finance.portfolio_mk_integrity Namespace
MJ.PBMEF.finance.portfolio_mk_integrity.F_041 Import
MJ.PBMEF.Manifest,MJ.PBMEF.For

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_42_F041_Dimensional
reference "PINK-03-P0087"
state R -> R1
node N1
representation JP(PINK-03-P0087)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 87 of 106. Chapter 42 F-041 - Dimensional integrity Exact ex
```

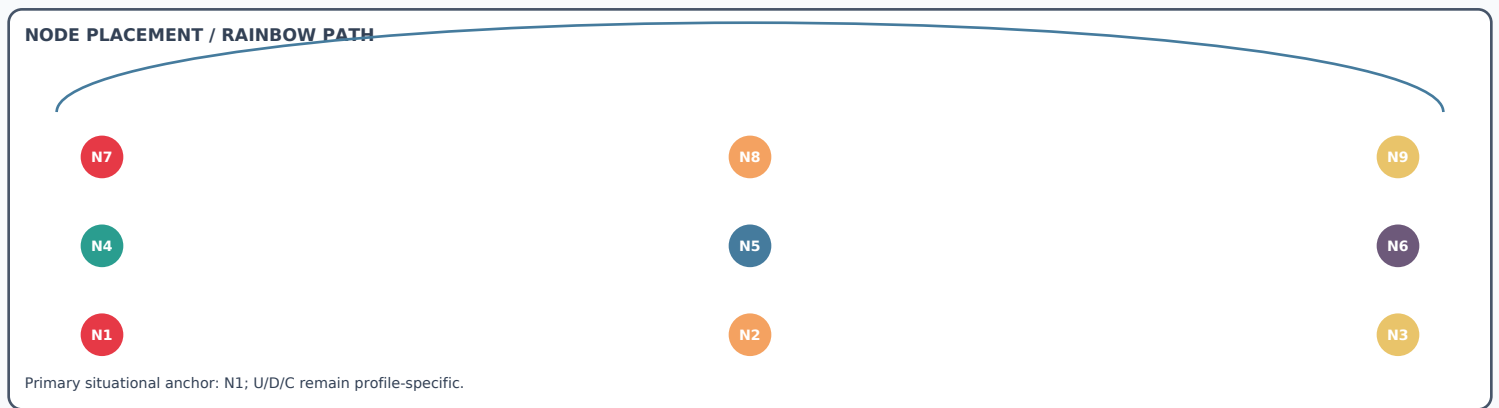


R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 88 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper II - F001-F050 42.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-041anditsassumptions, inputs, out

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-03-P0088"
state R -> R1
node N1
representation JP(PINK-03-P0088)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 88 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pin
```



R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 89 of 106.
Chapter 43 F-042 - Conservation residual Exact expression
 $r_q = q_{in-q} \text{out-Delta} q_{loss}$ Meaning. Passonlywhen $|r_q| \leq U_q$. Bound
manifestations.MK,JO,EVE,MERMAID Gateway
stage.JPcanonicalrepresentation,MKapplicability,JOproof,andboundedMJoutput
Construct Formula-specific expression Module
MJ.PBMEF.finance.portfolio_mk_integrity Namespace
MJ.PBMEF.finance.portfolio_mk_integrity.F_042 Import
MJ.PBMEF.Manifest,MJ.PBMEF.For

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_43_F_042_Conservatio
reference "PINK-03-P0089"
state R -> R1
node N1
representation JP(PINK-03-P0089)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper Volume02 Formulas F001 F050.pdf, page 89 of 106. Chapter 43 F-042 - Conservation residual Exact ex
```

```

graph LR
    R((R)) --- R1((R1))
    R1 --- N1((N1))
    N1 --- U((U))
    U --- D((D))
    D --- C((C))
    C --- OUT((OUT))

```

R STATUS / OBSERVATION

SOURCE RULE / INTENT

PATH OF EXPRESSION

CODE / MATH / PROCESS REPRESENTATION

```

module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-03-P0090"
state R -> R1
node N1
representation JP(PINK-03-P0090)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper Volume02 Formulas.F001 F050.pdf, page 90 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pin

```


NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 91 of 106.
Chapter 44 F-043 - Pearl simulation ellipsoid volume Exact expression
 $V_P = (4/3) \pi a^* b^* c$ Meaning.
Hypothetical pearl-shaped simulation geometry; no physical container or dimension claim.
Bound manifestations. MK, SISTER, EVE, JO Gateway
stage. SISTER/EVE/MK/JO containment simulation evidence before MJ permit
Construct Formula-specific expression Module
MJ.PBMEF.pearl.hypothetical_simulation_acoustic_reference Namespace
MJ.PBMEF.pear

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_44_F_043_Pearl_simul
reference "PINK-03-P0091"
state R -> R1
node N1
representation JP(PINK-03-P0091)
physics MK(classify, units, boundary, uncertainty)
verify JO(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 91 of 106. Chapter 44 F-043 - Pearl simulation ellipsoid vol
```

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 92 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper II - F001-F050 44.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-043anditsassumptions, inputs, out

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-03-P0092"
state R -> R1
node N1
representation JP(PINK-03-P0092)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 92 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pin

NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

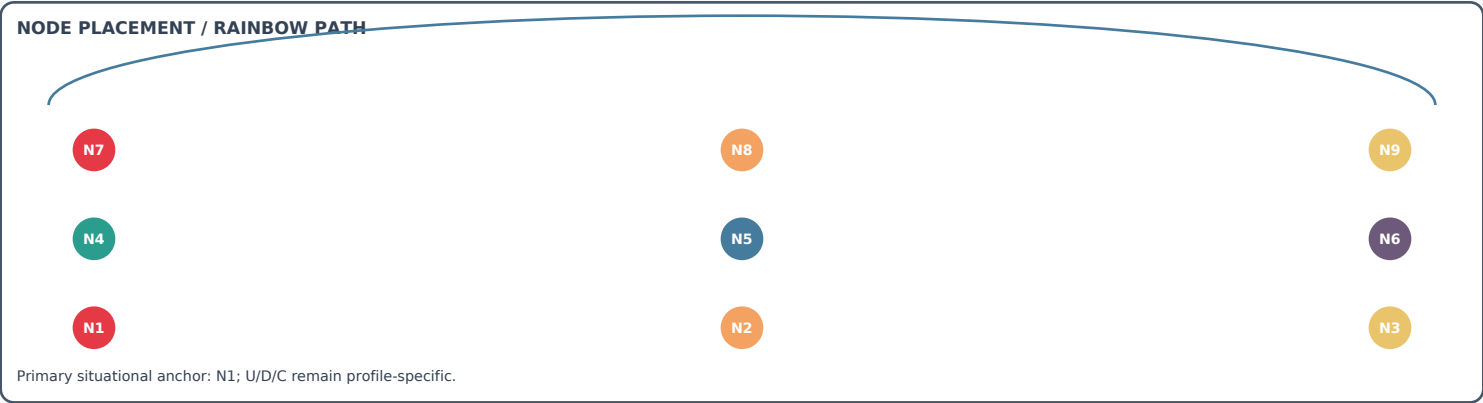
Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 93 of 106.
Chapter 45 F-044 - Pearl simulation surface-area approximation Exact
expression $A_P \sim 4\pi r^2 ((a^2 p^2 b^2 p + a^2 p^2 c^2 p + b^2 p^2 c^2 p)/3)^{1/3}$, $p=1.6075$
Meaning.
Hypotheticalsimulationgeometricapproximation;nophysicalwallorsurfaceclaim.
Bound manifestations.MK,BELLE,JO Gateway
stage.Sister/EVE/MK/JOcontainmentorsimulationevidencebeforeMJpermit
Construct Formula-specific expression Module
MJ.PBMEF.pearl.hypothetical_simulation_acoustic

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_45_F_044_Pearl_simul
reference "PINK-03-P0093"
state R -> R1
node N1
representation JP(PINK-03-P0093)
physics MK(classify, units, boundary, uncertainty)
verify JO(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 93 of 106. Chapter 45 F-044 - Pearl simulation surface-area
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 94 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper II - F001-F050 45.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-044anditsassumptions, inputs, out

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-03-P0094"
state R -> R1
node N1
representation JP(PINK-03-P0094)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 94 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pin
```

NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 95 of 106.
Chapter 46 F-045 - Pearl simulation exposure ratio Exact expression
 $\chi^2_P = A_P/V_P$ Meaning.
Simulationcomparisonmetriconly;notphysicalbreachorexposureevidence.
Bound manifestations.MK,BELLE,EVE Gateway
stage.Sister/EVE/MK/J)ContainmentorsimulationevidencebeforeMJ)permit
Construct Formula-specific expression Module
MJ.PBMEF.pearl.hypothetical_simulation_acoustic_reference Namespace
MJ.PBMEF.pearl.hypothetical_simulation

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_46_F045_Pearl_simul
reference "PINK-03-P0095"
state R -> R1
node N1
representation JP(PINK-03-P0095)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper Volume02 Formulas F001 F050.pdf, page 95 of 106. Chapter 46 F-045 - Pearl simulation exposure rati
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 96 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper II - F001-F050 46.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-045anditsassumptions, inputs, out

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-03-P0096"
state R -> R1
node N1
representation JP(PINK-03-P0096)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 96 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pin
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 97 of 106. Chapter 47 F-046 - Pearl simulation capacity slack Exact expression $S_{Pk} = (1-h_{Pk}) * C_{Pk-L}_{Pk}$ Meaning. Remaining types simulation/information capacity after declared headroom. Bound manifestations. SISTER, EVE, M3, MK, JO Gateway stage. Sister/EVE/MK/JO containment or simulation evidence before MJ permit Construct Formula-specific expression Module MJ.PBMEF.pearl.hypothetical_simulation_acoustic_reference Namespace MJ.PBMEF.pearl.hypothe

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_47_F_046_Pearl_simul
reference "PINK-03-P0097"
state R -> R1
node N1
representation JP(PINK-03-P0097)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 97 of 106. Chapter 47 F-046 - Pearl simulation capacity slac
```

```

graph LR
    R((R)) --- R1((R1))
    R1 --- N1((N1))
    N1 --- U((U))
    U --- D((D))
    D --- C((C))
    C --- OUT((OUT))

```

R STATUS / OBSERVATION

SOURCE RULE / INTENT

PATH OF EXPRESSION

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-03-P0098"
state R -> R1
node N1
representation JP(PINK-03-P0098)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper Volume02 Formulas F001 F050.pdf, page 98 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pin
```


Node Placement / Rainbow Path

Rectangle

Cone

Sister umbrella

EVE/lake

next-cycle re-entry

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 99 of 106. Chapter 48 F-047 - Pearl simulation saturation ratio Exact expression $\beta_P = \max_k (L_{Pk} / ((1 - h_{Pk}) * C_{Pk}))$ Meaning. Simulationsaturationconditiononly;notphysicalbreachresistance. Bound manifestations.MK,ANGELS,BELLATRIX,JO Gateway stage.Sister/EVE/MK/JOcontainmentorsimulationevidencebeforeMJpermit Construct Formula-specific expression Module MJ.PBMEF.pearl.hypothetical_simulation_acoustic_reference Namespace MJ.PBMEF.p

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

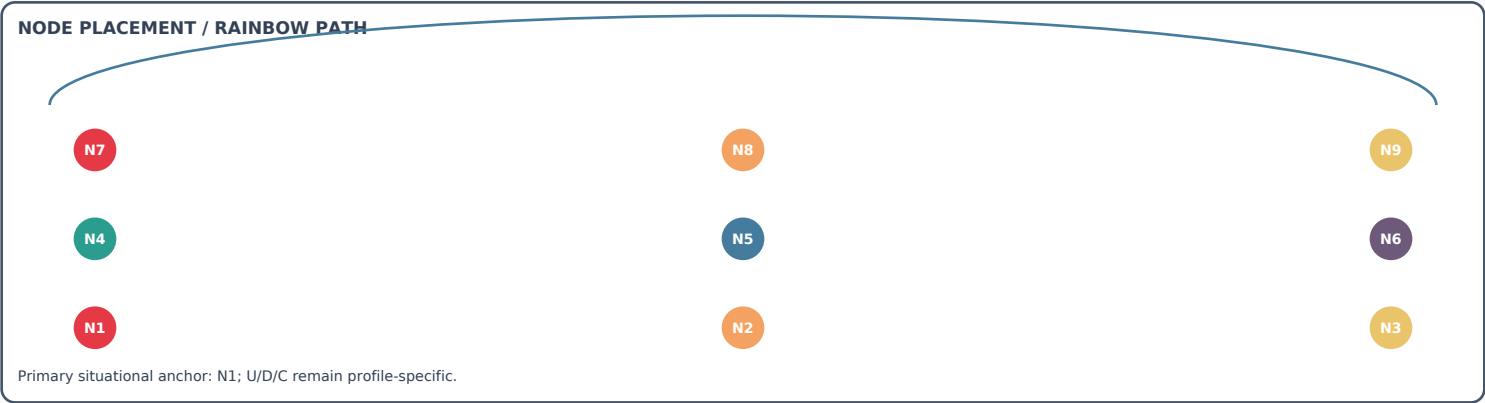
module MJ.Rainbow.Chapter_48_F_047_Pearl_simul
reference "PINK-03-P0099"
state R -> R1
node N1
representation JP(PINK-03-P0099)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 99 of 106. Chapter 48 F-047 - Pearl simulation saturation ratio Exact expression $\beta_P = \max_k (L_{Pk} / ((1 - h_{Pk}) * C_{Pk}))$ Meaning. Simulationsaturationconditiononly;notphysicalbreachresistance. Bound manifestations.MK,ANGELS,BELLATRIX,JO Gateway stage.Sister/EVE/MK/JOcontainmentorsimulationevidencebeforeMJpermit Construct Formula-specific expression Module MJ.PBMEF.pearl.hypothetical_simulation_acoustic_reference Namespace MJ.PBMEF.p

Internal reference only. No physical validation, operation authority, product certification, external effect, IP approval, or external effect. MJ.PBMEF.p DAY0-R12-RAINBOW-230K-PDF-MIRROR-FINAL | RW-PINK-0540

MJos Predictive Model | First manifestation of the Bangel Language

MJ Physics Engineering | Owned and operated by Michael Bangel | Clearwater, Florida

RAINBOW | Original collection page 8324 | Terminology edition; source evidence remains historical



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 100 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper II - F001-F050 48.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-047anditsassumptions, inputs, out

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-03-P0100"
state R -> R1
node N1
representation JP(PINK-03-P0100)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 100 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pi
```

Node Placement / Rainbow Path

R

R1

N1

U

D

C

OUT

Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

Source Rule / Intent

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 101 of 106. Chapter 49 F-048 - Pearl simulation object count Exact expression $N_P = \max_k \text{ceil}(E_k / ((1 - h_{Pk}) * C_{Pk}))$ Meaning. Number of hypothetical simulation objects needed for declared information/resource dimensions. Bound manifestations. SISTER, EVE, M3, MK, JO Gateway stage. Sister/EVE/MK/JO containment or simulation evidence before MJ permit Construct Formula-specific expression Module MJ.PBMEF.pearl.hypothetical_simulation_acoustic_reference N

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.Chapter_49_F_048_Pearl_simul
reference "PINK-03-P0101"
state R -> R1
node N1
representation JP(PINK-03-P0101)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 101 of 106. Chapter 49 F-048 - Pearl simulation object count
```

Node Placement / Rainbow Path



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 102 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper II - F001-F050 49.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-048anditsassumptions, inputs, out

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-03-P0102"
state R -> R1
node N1
representation JP(PINK-03-P0102)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 102 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pi

NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 103 of 106. Chapter 50 F-049 - Pearl simulation accounting bal- ance Exact expression $r_{Pk}=q_{in-q_captured-q_transferred-q_retained-q_escaped-\Delta q_stored}$ Meaning. Simulation/accountingconservationacrossretained,transferred,escaped-observation,and storedinformation. Bound manifestations.EVE,MK,JO,MERMAID Gateway stage.Sister/EVE/MK/JOcontainmentorsimulationevidencebeforeMJpermit Construct Formula-specific expression Module MJ.P

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```

module MJ.Rainbow.Chapter_50_F_049_Pearl_simul
reference "PINK-03-P0103"
state R -> R1
node N1
representation JP(PINK-03-P0103)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 103 of 106. Chapter 50 F-049 - Pearl simulation accounting b

```

Node Placement / Rainbow Path



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 104 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper II - F001-F050 } 50.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-049anditsassumptions, inputs, o

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-03-P0104"
state R -> R1
node N1
representation JP(PINK-03-P0104)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 104 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pi
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 105 of 106. Chapter 51 F-050 - Pearl simulated transfer oppor- tunity Exact expression $T_{ij,k} = \min([S_{jk}]_+,[Q_{ik}-Q_{reserve_{ik}}]_+,C_{route_k})$ Meaning. Simulatedtransferopportunityboundedbydeclaredlogicalcapacities;nophysicaltransfer. Bound manifestations.SISTER,EVE,M3,MK,JO Gateway stage.Sister/EVE/MK/JOcontainmentorsimulationevidencebeforeMJpermit Construct Formula-specific expression Module MJ.PBMEF.pearl.hypothetical_simulation

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_51_F_050_Pearl_simul
reference "PINK-03-P0105"
state R -> R1
node N1
representation JP(PINK-03-P0105)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 105 of 106. Chapter 51 F-050 - Pearl simulated transfer oppo
```

NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

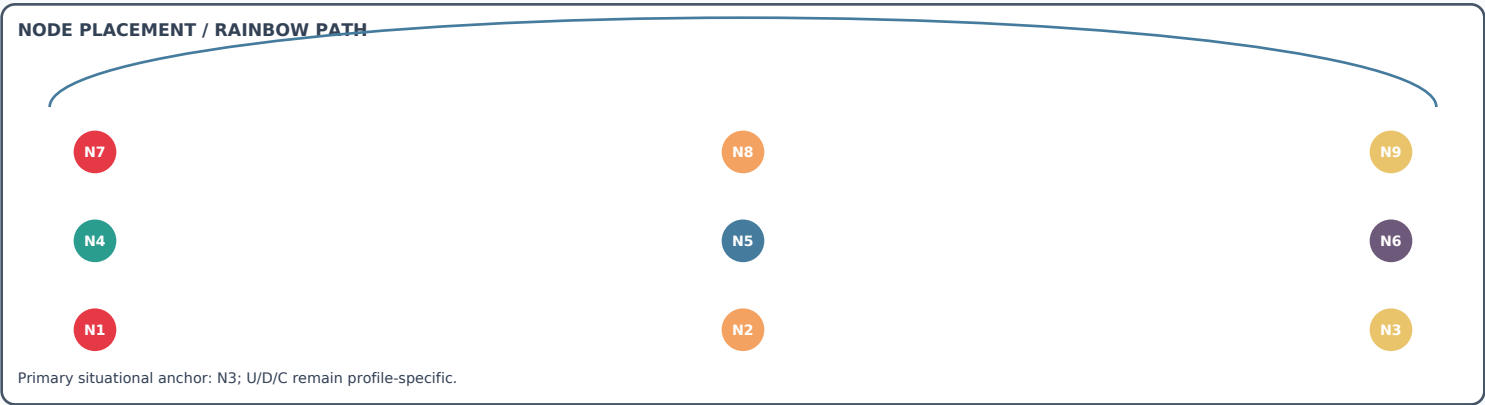
Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 106 of 106.
PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper II - F001-F050
51.2 Lifecycle from request to final output 1. R/R0:
receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin:
parsemodules,namespaces,declarations,literals,types,constraints,anddirectives.
3. Elsa:
recoversemanticpurpose,variablemeaning,andambiguitywithoutcreatingauthority.
4. JP:createethecanonicalCAPOrF-050anditsassumptions,inputs,out

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-03-P0106"
state R -> R1
node N1
representation JP(PINK-03-P0106)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume02_Formulas_F001_F050.pdf, page 106 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pi
```

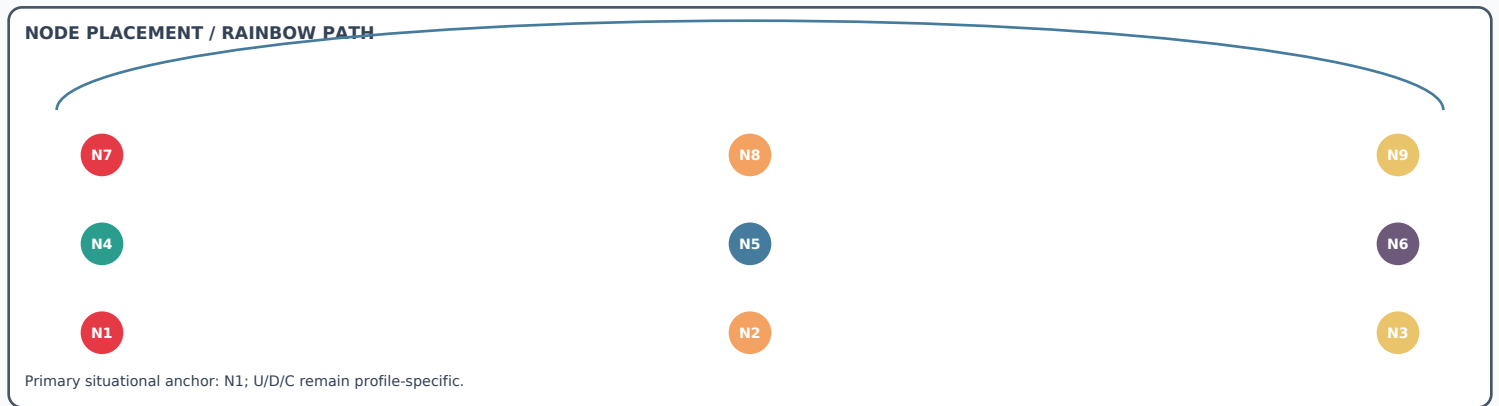



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 1 of 106. MJ-PBMEFPinkPaper-Volumelll FormulaGatewayBindingsF-051throughF-100 MichaelBangel-AuthorandArchitect August2026

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.MJ_PBMEFPinkPaper_VolumeIII_  
reference "PINK-04-P0001"  
state R -> R1  
node N3  
representation JP(PINK-04-P0001)  
physics MK(classify, units, boundary, uncertainty)  
verify J0(types, evidence, receipts)  
if all_required_gates == PASS:  
MJ.permit -> R2 -> bounded_output  
else:  
HOLD | FAIL_TECHNICAL | DENY  
# Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 1 of 106. MJ-PBMEFPinkPaper-Volumelll FormulaGatewayBindings
```



R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 2 of 106.

Contents 1 Verification method 5 2 F-051 - Pearl simulated regeneration vector 6

2.1 Gatewaylife-cycleexample6

2.2 Lifecyclefromrequesttofinaloutput7 3

F-052 - Pearl acoustic simulation wavelength 8 3.1 Gatewaylife-cycleexample .

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Contents_1_Verification_meth
reference "PINK-04-P0002"
state R -> R1
node N1
representation JP(PINK-04-P0002)
physics MK(classify, units, boundary, uncertainty)
verify JO(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 2 of 106. Contents 1 Verification method 5 2 F-051 - Pearl s
```

Node Placement / Rainbow Path

Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

P preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 3 of 106.
PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper III - F051-F100
13.2Lifecyclefromrequeststofinaloutput29
14F-063 - Incremental recompute cost 30 14.1Gatewaylife-cycleexample
.....30 14.2Lifecyclefromrequeststofinaloutput
.....31 15F-06

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-04-P0003"
state R -> R1
node N1
representation JP(PINK-04-P0003)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 3 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink

Node Placement / Rainbow Path

Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

P preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 4 of 106.
PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper III - F051-F100
29F-078 - Formula verification residual 60 29.1Gatewaylife-cycleexample
.60 29.2Lifecyclefromrequesttofinaloutput
.61 30F-079 - Operational intake
completeness 62 30.1Gatewaylife-cycleexample

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-04-P0004"
state R -> R1
node N1
representation JP(PINK-04-P0004)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 4 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink

Node Placement / Rainbow Path



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

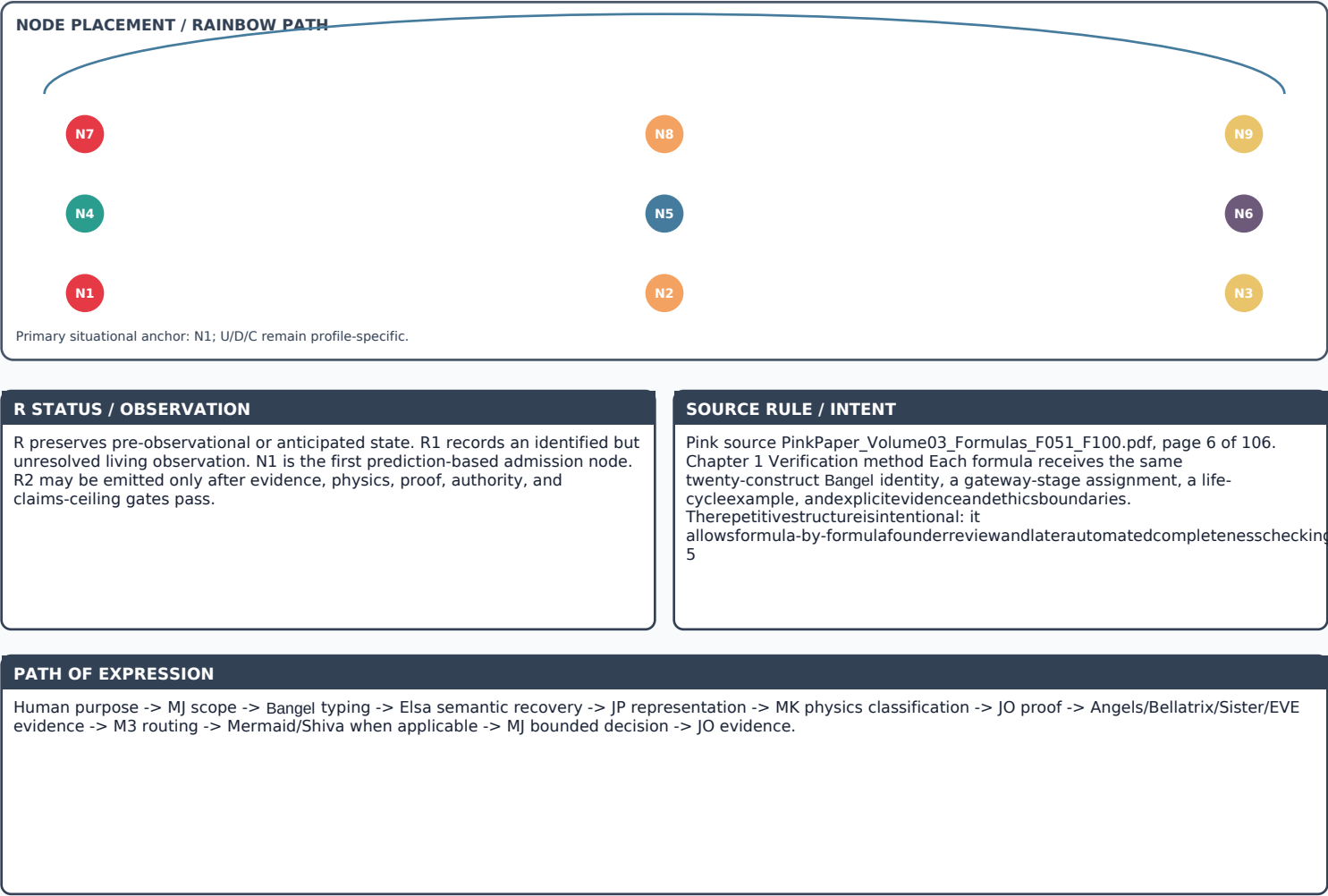
R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 5 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper III - F051-F100 44F-093 - Observed gas-height predictor 90 44.1Gatewaylife-cycleexample90 44.2Lifecyclefromrequesttofinaloutput91 45F-094 - Gas net-force balance 92 45.1Gatewaylife-cycleexample

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-04-P0005"
state R -> R1
node N7
representation JP(PINK-04-P0005)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 5 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink
```



CODE / MATH / PROCESS REPRESENTATION

module MJ.Rainbow.Chapter_1_Verification_metho
reference "PINK-04-P0006"
state R -> R1
node N1
representation JP(PINK-04-P0006)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 6 of 106. Chapter 1 Verification method Each formula receive



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 7 of 106. Chapter 2 F-051 - Pearl simulated regeneration vector Exact expression $G_P=[G_mass,G_energy,G_bytes,G_time,G_capital]$ Meaning. Hypotheticalopportunityvector;createsnophysicalorcapitalvalue. Bound manifestations.EVE,MERMAID,SHIVA,MK,JO Gateway stage.N1prediction-firstallocation,M3routing,andG123reconciliation Construct Formula-specific expression Module MJ.PBMEF.pearl.hypothetical_simulation_acoustic_reference Namespa

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_2_F_051_Pearl_simula
reference "PINK-04-P0007"
state R -> R1
node N1
representation JP(PINK-04-P0007)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 7 of 106. Chapter 2 F-051 - Pearl simulated regeneration vec
```

Node Placement / Rainbow Path



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

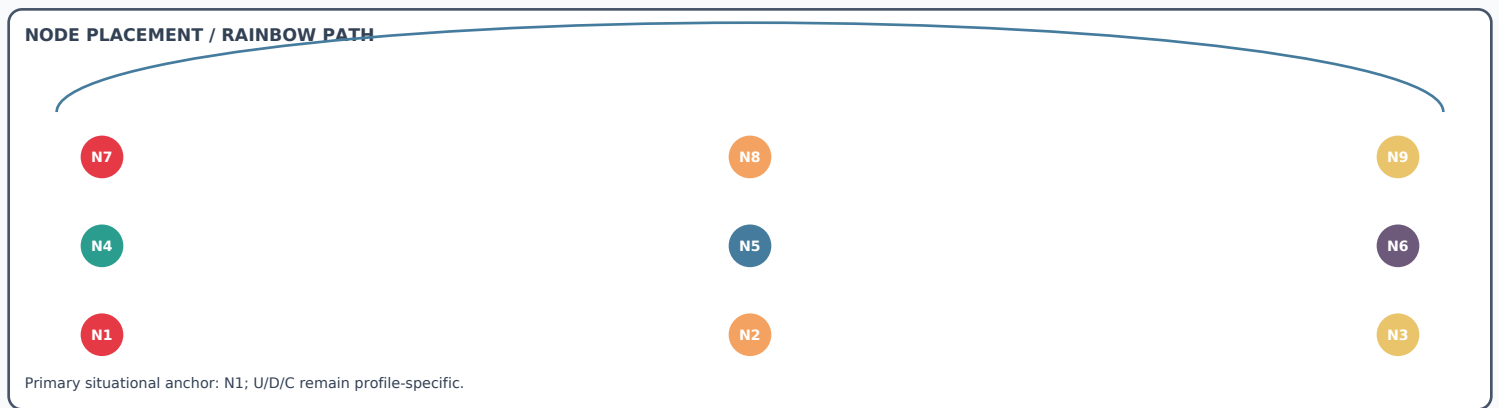
Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 8 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper III - F051-F100 2.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-051anditsassumptions, inputs, out

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-04-P0008"
state R -> R1
node N1
representation JP(PINK-04-P0008)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 8 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink
```

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

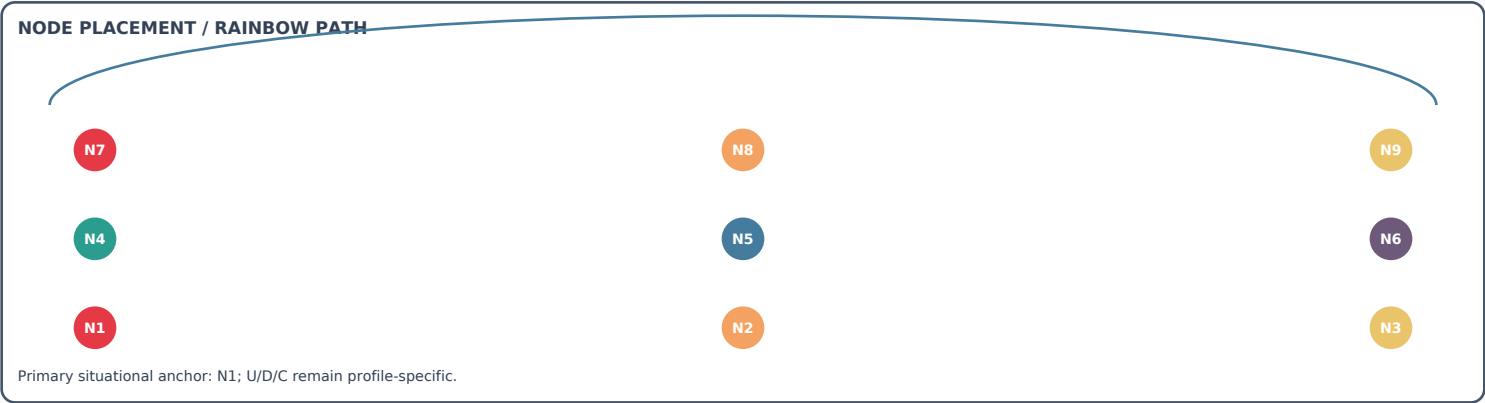
Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 9 of 106.
Chapter 3 F-052 - Pearl acoustic simulation wave-length Exact expression
 $\lambda_{ac} = c_{medium} / f_{control}$ Meaning.
Acoustic simulation variable under declared medium assumptions; no cohesion claim.
Bound manifestations. MK, EVE, JO Gateway
stage. Sister/EVE/MK/JO contentment or simulation evidence before MJ permit
Construct Formula-specific expression Module
MJ.PBMEF.pearl.hypothetical_simulation_acoustic_reference Namespace
MJ.PBMEF.pearl

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_3_F_052_Pearl_acoust
reference "PINK-04-P0009"
state R -> R1
node N1
representation JP(PINK-04-P0009)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper Volume03 Formulas F051 F100.pdf, page 9 of 106. Chapter 3 F-052 - Pearl acoustic simulation wave-
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 10 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper III - F051-F100 3.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-052anditsassumptions, inputs, out

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

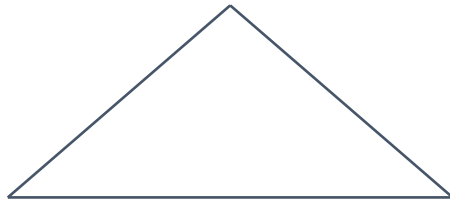
CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-04-P0010"
state R -> R1
node N1
representation JP(PINK-04-P0010)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 10 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pin
```

NODE PLACEMENT / RAINBOW PATH



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.



R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

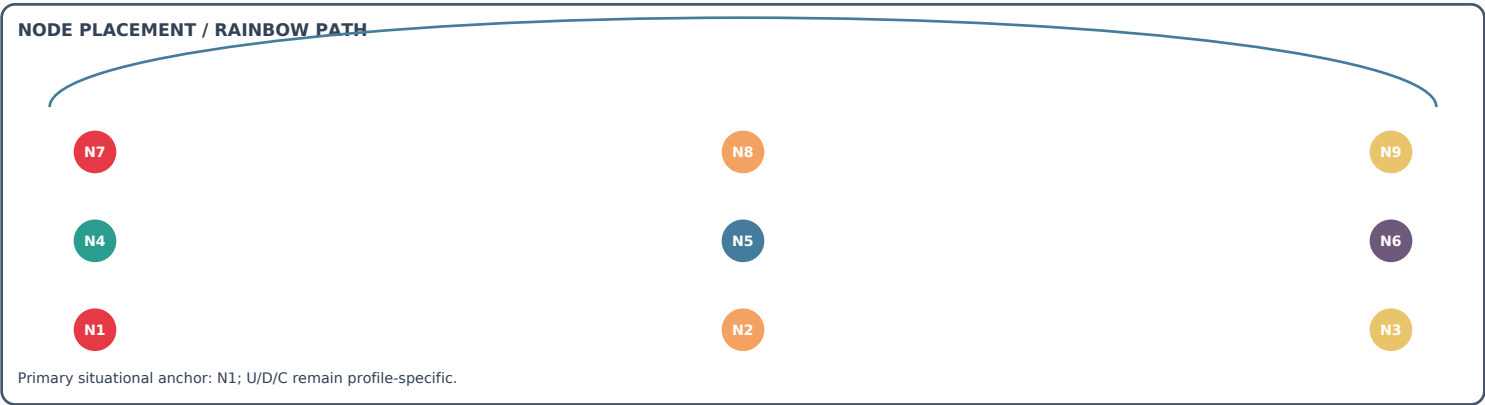
Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 11 of 106.
Chapter 4 F-053 - Pearl acoustic simulation intensity Exact expression
 $I_{ac} = p_{rms}^2 / (\rho \cdot c_{medium})$ Meaning.
Referencesimulationintensityonly;nophysicalactuationclaim. Bound
manifestations.MK,EVE,JO Gateway
stage.Sister/EVE/MK/JOcontainmentorsimulationevidencebeforeMJpermit
Construct Formula-specific expression Module
MJ.PBMEF.pearl.hypothetical_simulation_acoustic_reference Namespace
MJ.PBMEF.pearl.hypotheti

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_4_F_053_Pearl_acoust
reference "PINK-04-P0011"
state R -> R1
node N1
representation JP(PINK-04-P0011)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper.Volume03 Formulas F051 F100.pdf, page 11 of 106. Chapter 4 F-053 - Pearl acoustic simulation inten
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 12 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper III - F051-F100 4.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-053anditsassumptions, inputs, out

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-04-P0012"
state R -> R1
node N1
representation JP(PINK-04-P0012)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 12 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pin
```

Node Placement / Rainbow Path



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 13 of 106. Chapter 5 F-054 - Pearl acoustic simulation energy Exact expression $E_{ac} = \int I_{ac} \cdot A_{effective} dt$ Meaning. Hypothetical energy accounting for a future separately permitted experiment. Bound manifestations. MK, EVE, MERMAID, JO Gateway stage. Sister/EVE/MK/JO containment or simulation evidence before MJ permit Construct Formula-specific expression Module MJ.PBMEF.pearl.hypothetical_simulation_acoustic_reference Namespace MJ.PBMEF.pea

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.Chapter_5_F_054_Pearl_acoust
reference "PINK-04-P0013"
state R -> R1
node N1
representation JP(PINK-04-P0013)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 13 of 106. Chapter 5 F-054 - Pearl acoustic simulation energ
```

Node Placement / Rainbow Path



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 14 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper III - F051-F100 5.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-054anditsassumptions, inputs, out

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-04-P0014"
state R -> R1
node N1
representation JP(PINK-04-P0014)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 14 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pin
```

Node Placement / Rainbow Path



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

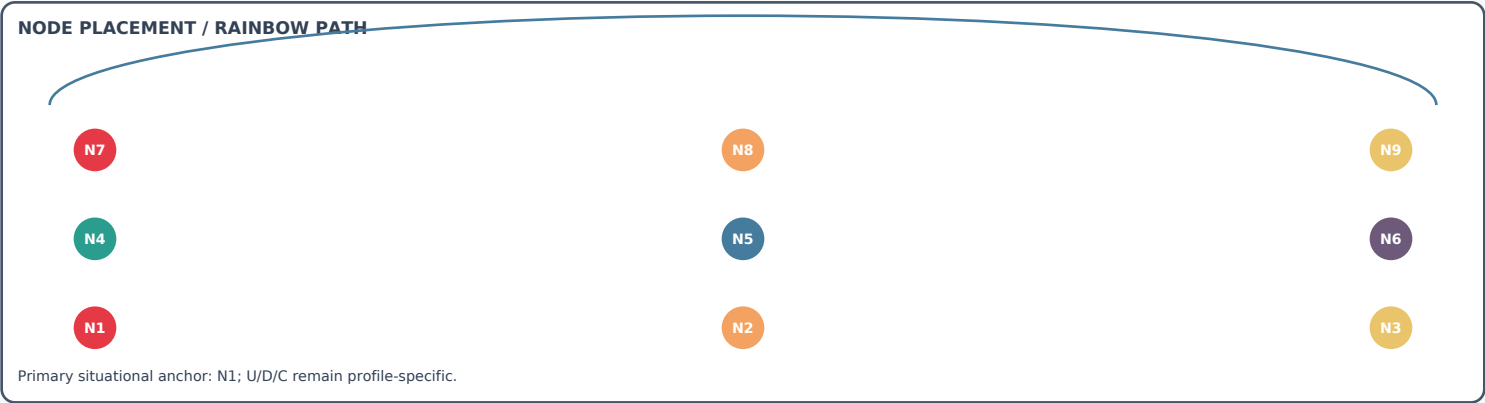
Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 15 of 106. Chapter 6 F-055 - Pearl acoustic simulation ob- servability gate Exact expression $f_{\text{sample}} \geq 2 \cdot \gamma \cdot f_{\text{control}}$ AND f_{control} in calibrated_band AND $\text{SNR}_f \geq \text{SNR}_{\text{min}}$ Meaning. Simulation input must be measurable to be accounted for; observability is not a tuation. Bound manifestations. MK, JO, ANGELS Gateway stage. Sister/EVE/MK/JO containments or simulation evidence before MJ permit Construct Formula-specific expression Module MJ.PBMEF.pearl.hy

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.Chapter_6_F_055_Pearl_acoust
reference "PINK-04-P0015"
state R -> R1
node N1
representation JP(PINK-04-P0015)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 15 of 106. Chapter 6 F-055 - Pearl acoustic simulation ob- s
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 16 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper III - F051-F100 } 6.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-055anditsassumptions, inputs, o

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-04-P0016"
state R -> R1
node N1
representation JP(PINK-04-P0016)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 16 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pin
```


Node Placement / Rainbow Path



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 17 of 106. Chapter 7 F-056 - Pearl acoustic simulation signal- to-noise Exact expression $SNR_f = P_{signal}(f) / P_{noise}(f)$ Meaning. Simulationsignal-to-noiseratio;advisoryandnon-authorizing. Bound manifestations.MK,SISTER,EVE,JO Gateway stage.R1predictionandnormal-constellationcalibrationbeforeN1 Construct Formula-specific expression Module MJ.PBMEF.pearl.hypothetical_simulation_acoustic_reference Namespace MJ.PBMEF.pearl.hypothetic

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.Chapter_7_F_056_Pearl_acoust
reference "PINK-04-P0017"
state R -> R1
node N1
representation JP(PINK-04-P0017)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 17 of 106. Chapter 7 F-056 - Pearl acoustic simulation signa
```

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 18 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper III - F051-F100 7.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-056anditsassumptions, inputs, out

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-04-P0018"
state R -> R1
node N1
representation JP(PINK-04-P0018)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 18 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pin



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 19 of 106. Chapter 8 F-057 - Pearl acoustic simulation trans-fer function Exact expression $H_P(f)=Y_P(f)/U_P(f)$ Meaning. Hypotheticalormeasured-laterresponsemapping;nophysicalPearlarticleexists. Bound manifestations.MK,EVE,JO Gateway stage.Sister/EVE/MK/JOcontainmentorsimulationevidencebeforeMJpermit Construct Formula-specific expression Module MJ.PBMEF.pearl.hypothetical_simulation_acoustic_reference Namespace MJ.PBMEF.pearl.

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_8_F_057_Pearl_acoust
reference "PINK-04-P0019"
state R -> R1
node N1
representation JP(PINK-04-P0019)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 19 of 106. Chapter 8 F-057 - Pearl acoustic simulation trans
```

Node Placement / Rainbow Path



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 20 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper III - F051-F100 8.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-057anditsassumptions, inputs, out

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-04-P0020"
state R -> R1
node N1
representation JP(PINK-04-P0020)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 20 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pin
```

--



SOURCE RULE / INTENT

Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 21 of 106.
 Chapter 9 F-058 - Pearl acoustic simulation set- point Exact expression
 $f^* = \text{argmin}_{\{f \text{ in } f_{\text{safe}}\}} (J_{\text{breach}} + \lambda \text{bda} * E_{\text{ac}} + \lambda \text{bda} * T * T_{\text{transfer}})$
 Meaning. Simulation candidate only; no physical control set point. Bound
 manifestations. MK, BELLE, JO, MJ Gateway
 stage. Sister/EVE/MK/JO contain mentors simulation evidence before MJ permit
 Construct Formula-specific expression Module
 MJ, PBMEF, pearl, hypothetical simulation acoustic reference Names

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

```
module MJ.Rainbow.Chapter_9_F_058_Pearl_acoust
reference "PINK-04-P0021"
state R -> R1
node N1
representation JP(PINK-04-P0021)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 21 of 106. Chapter 9 F-058 - Pearl acoustic simulation set-
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 22 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper III - F051-F100 9.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-058anditsassumptions, inputs, out

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-04-P0022"
state R -> R1
node N1
representation JP(PINK-04-P0022)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 22 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pin
```

Node Placement / Rainbow Path



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

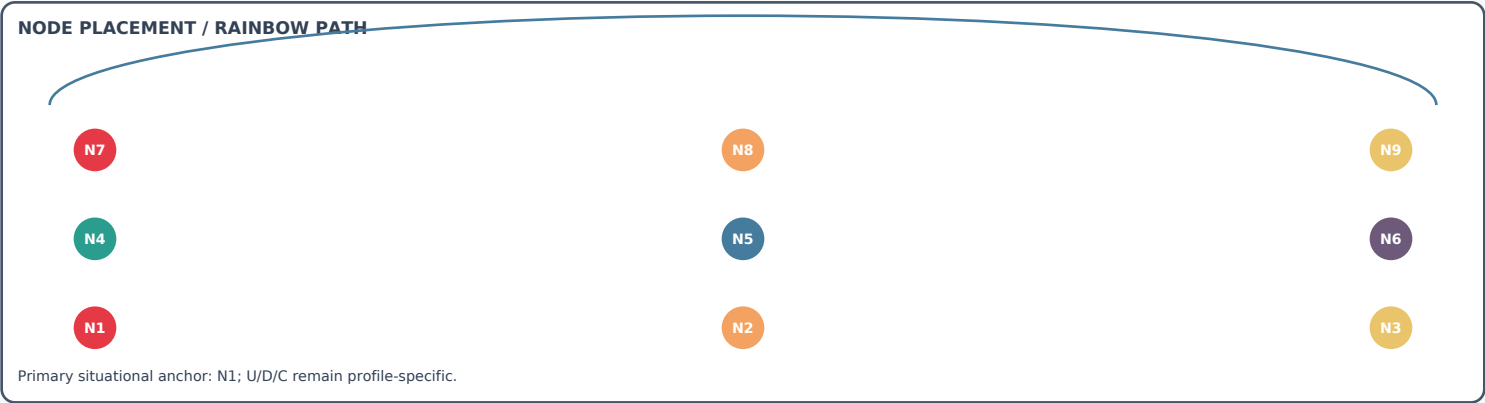
Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 23 of 106. Chapter 10 F-059 - Bounded Pearl acoustic simulation adjustment Exact expression $f_{next} = clip((2/3)f + (1/3)f_{target}, f_{df_max}, f_{df_max}, f_{min}, f_{max})$ Meaning. One-third-damped simulation update only. Bound manifestations. MK, JO, M3 Gateway stage. Sister/EVE/MK/JO containment or simulation evidence before MJ permit Construct Formula-specific expression Module MJ.PBMEF.pearl.hypothetical_simulation_acoustic_reference Namespace MJ.PBME

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.Chapter_10_F_059_Bounded_Pea
reference "PINK-04-P0023"
state R -> R1
node N1
representation JP(PINK-04-P0023)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 23 of 106. Chapter 10 F-059 - Bounded Pearl acoustic simulation
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 24 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper III - F051-F100 10.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-059anditsassumptions, inputs, ou

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-04-P0024"
state R -> R1
node N1
representation JP(PINK-04-P0024)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 24 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pin
```




R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 25 of 106. Chapter 11 F-060 - Pearl simulation registry recon- ciliation Exact expression $r_registry=N_allocated+N_received-N_transferred-N_closed-N_active$ Meaning. Registrycountreconciliationforsimulationrecords,notphysicalcontainers. Bound manifestations.MERMAID,SHIVA,M3,JO Gateway stage.Sister/EVE/MK/JOcontainmentorsimulationevidencebeforeMJpermit Construct Formula-specific expression Module MJ.PBMEF.pearl.hypothetical_simul

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_11_F_060_Pearl_simul
reference "PINK-04-P0025"
state R -> R1
node N1
representation JP(PINK-04-P0025)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 25 of 106. Chapter 11 F-060 - Pearl simulation registry reco
```

```

graph LR
    R((R)) --- R1((R1))
    R1 --- N1((N1))
    N1 --- U((U))
    U --- D((D))
    D --- C((C))
    C --- OUT((OUT))

```

R STATUS / OBSERVATION

SOURCE RULE / INTENT

PATH OF EXPRESSION

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-04-P0026"
state R -> R1
node N1
representation JP(PINK-04-P0026)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper Volume03 Formulas_F051 F100.pdf, page 26 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pin
```

NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 27 of 106. Chapter 12 F-061 - Bangel Sheet cell state Exact expression
C_ij=<value,unit,uncertainty,formula,revision,lineage,authority,evidence> Meaning.
Everycellisagovernedmeasurementobject,notanuntypedmutablevalue. Bound manifestations.Bangel ,JP,MK,JO Gateway
stage.Bangel.beginworkbookdeclaration,JPmodel,MKcost,JOdeterministicexecution
Construct Formula-specific expression Module
MJ.PBMEF.Bangel.spreadsheets.algorithms_scali

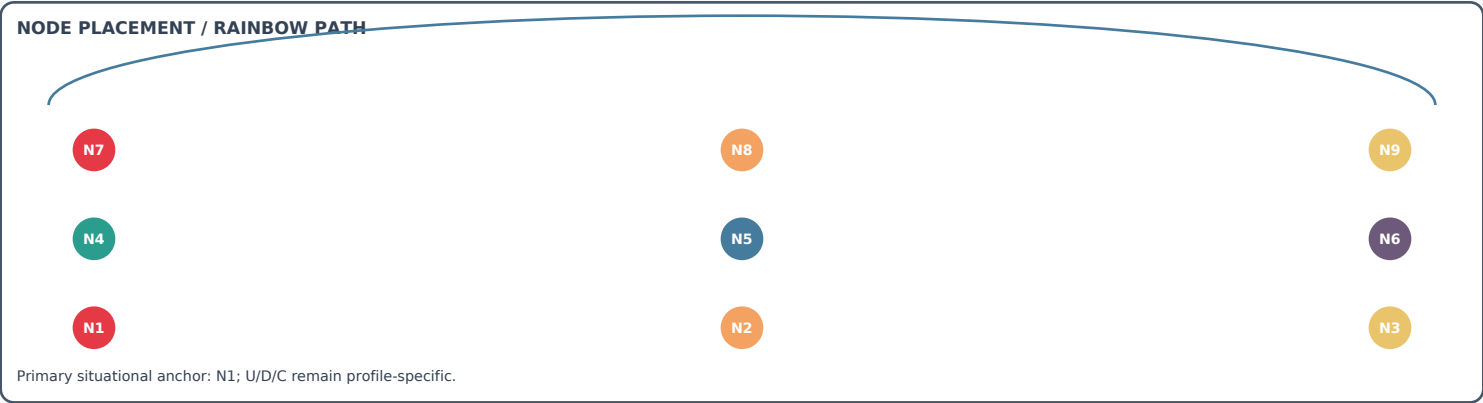
PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```

module MJ.Rainbow.Chapter_12_F_061_Bangel _Shee
reference "PINK-04-P0027"
state R -> R1
node N1
representation JP(PINK-04-P0027)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 27 of 106. Chapter 12 F-061 - Bangel Sheet cell state Exact
    
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 28 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper III - F051-F100 12.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-061anditsassumptions, inputs, ou

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-04-P0028"
state R -> R1
node N1
representation JP(PINK-04-P0028)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 28 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pin
```

--



Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 29 of 106.
Chapter 13 F-062 - Affected dependency closure Exact expression
A(U)=Reachable_G(U) Meaning.
Onlycellsreachablefromchangedcellsareeligibleforincrementalrecomputation.
Bound manifestations.JP,JO,M3 Gateway
stage.Bangel.beginworkbookdeclaration,JPmodel,MKcost,JOdeterministicexecution
Construct Formula-specific expression Module
MJ.PBMEF.Bangel.spreadsheets.algorithms_scaling Namespace
MJ.PBMEF.Bangel.spreadsheets.algor

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

```
module MJ.Rainbow.Chapter_13_F_062_Affected_dependency_closure
reference "PINK-04-P0029"
state R -> R1
node N1
representation JP(PINK-04-P0029)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper Volume03 Formulas_F051 F100.pdf, page 29 of 106. Chapter 13 F-062 - Affected dependency closure Ex
```

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 30 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper III - F051-F100 13.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-062anditsassumptions, inputs, ou

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-04-P0030"
state R -> R1
node N1
representation JP(PINK-04-P0030)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 30 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pin

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 31 of 106. Chapter 14 F-063 - Incremental recompute cost Exact expression $C_{recalc} = \sum_{v \in A} c_v + \sum_{e \in E(A)} t_e$ Meaning. Measured compute and transfer work for an affected dependency closure. Bound manifestations. MK, JO, MERMAID Gateway stage. JP canonical representation, MK applicability, JO proof, and bounded MJ output Construct Formula-specific expression Module MJ.PBMEF.Bangel.spreadsheets.algorithms_scaling Namespace MJ.PBMEF.Bangel.sprea

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_14_F_063_Incremental
reference "PINK-04-P0031"
state R -> R1
node N1
representation JP(PINK-04-P0031)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 31 of 106. Chapter 14 F-063 - Incremental recompute cost Exa
```

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 32 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper III - F051-F100 14.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-063anditsassumptions, inputs, ou

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

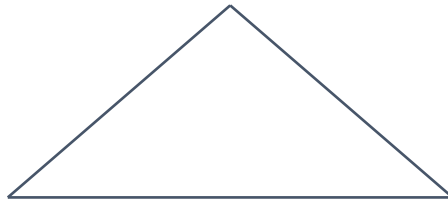
CODE / MATH / PROCESS REPRESENTATION

module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-04-P0032"
state R -> R1
node N1
representation JP(PINK-04-P0032)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 32 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pin

NODE PLACEMENT / RAINBOW PATH



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.



R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

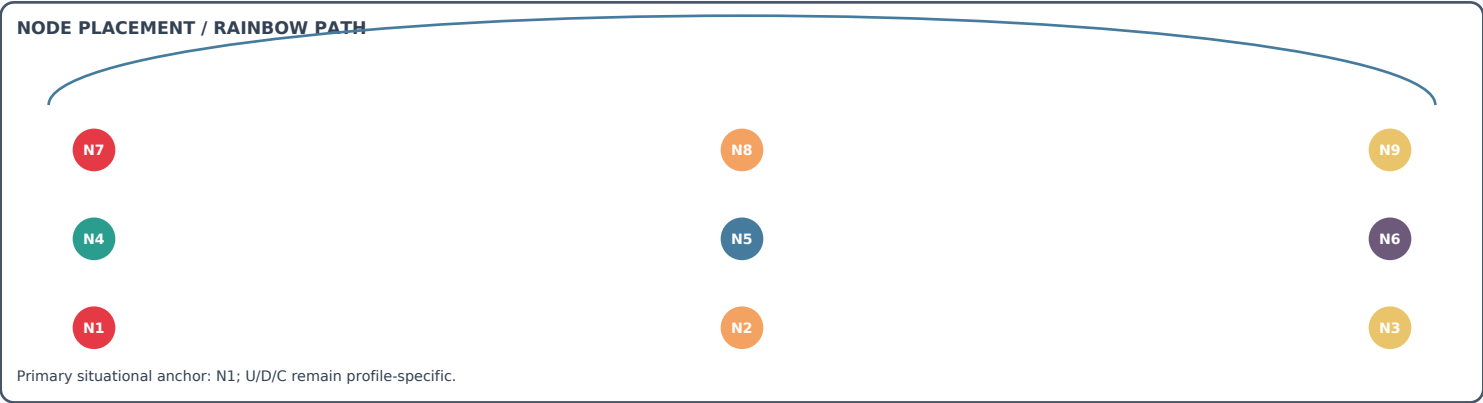
Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 33 of 106.
Chapter 15 F-064 - Concurrent edit arrival Exact expression
 $\lambda_{total} = N_{users} * \lambda_{user}$ Meaning.
Aggregate update arrival rate from measured concurrent-user activity. Bound
manifestations. J0, M3, MK Gateway
stage. J0 canonical representation, MK applicability, J0 proof, and bounded M0 output
Construct Formula-specific expression Module
MJ.PBMEF.Bangel.spreadsheets.algorithms_scaling Namespace
MJ.PBMEF.Bangel.spreadsheets.algorithms

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_15_F_064_Concurrent_
reference "PINK-04-P0033"
state R -> R1
node N1
representation JP(PINK-04-P0033)
physics MK(classify, units, boundary, uncertainty)
verify JO(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 33 of 106. Chapter 15 F-064 - Concurrent edit arrival Exact
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 34 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper III - F051-F100 15.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-064anditsassumptions, inputs, ou

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-04-P0034"
state R -> R1
node N1
representation JP(PINK-04-P0034)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 34 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pin
```

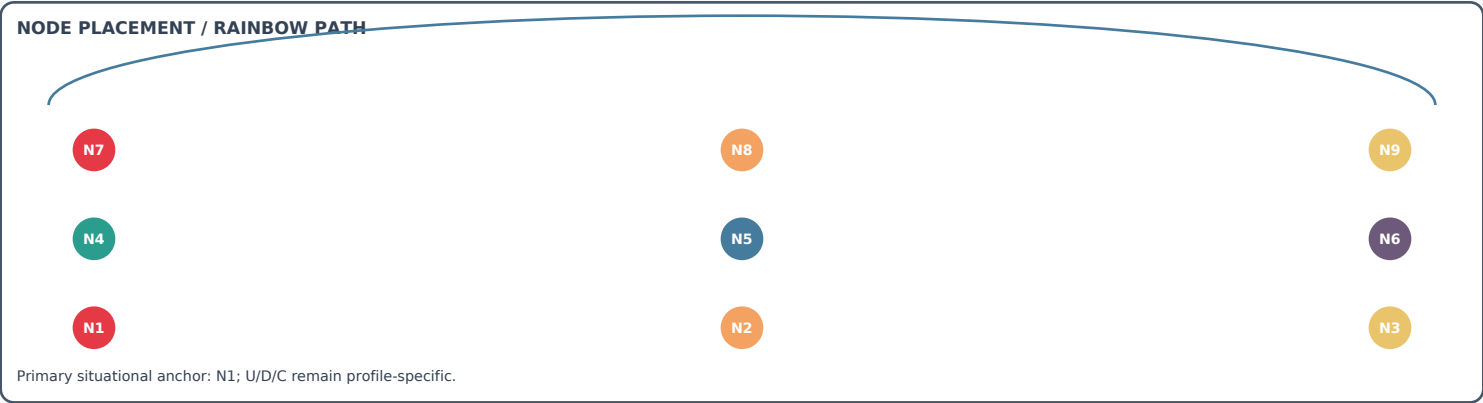


R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 35 of 106. Chapter 16 F-065 - Spreadsheet service utilization Exact expression $\rho = \lambda_{total} / (W * \mu_{worker})$ Meaning. CapacityutilizationforWdeterministicworkers. Bound manifestations.JO,M3,MK Gateway stage.Bangel.beginworkbookdeclaration,JPmodel,MKcost,JOdeterministicexecution Construct Formula-specific expression Module MJ.PBMEF.Bangel.spreadsheets.algorithms_scaling Namespace MJ.PBMEF.Bangel.spreadsheets.algorithms_scaling.

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> Mj bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_16_F_065_Spreadsheet
reference "PINK-04-P0035"
state R -> R1
node N1
representation JP(PINK-04-P0035)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 35 of 106. Chapter 16 F-065 - Spreadsheet service utilizatio
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 36 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper III - F051-F100 16.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-065anditsassumptions, inputs, ou

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-04-P0036"
state R -> R1
node N1
representation JP(PINK-04-P0036)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 36 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pin
```

NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 37 of 106.
Chapter 17 F-066 - Spreadsheet worker require- ment Exact expression
 $W_{min} = \text{ceil}(\lambda_{total} / (\rho_{max} \mu_{worker}))$ Meaning.
Minimum worker count for a pre-committed utilization ceiling. Bound
manifestations. JO, M3, MJOS Gateway
stage. Bangel.begin workbook declaration, JPmodel, MKcost, JO deterministic execution
Construct Formula-specific expression Module
MJ.PBMEF.Bangel.spreadsheets.algorithms_scaling Namespace
MJ.PBMEF.Bangel.spread

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_17_F_066_Spreadsheet
reference "PINK-04-P0037"
state R -> R1
node N1
representation JP(PINK-04-P0037)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper.Volume03 Formulas F051 F100.pdf, page 37 of 106. Chapter 17 F-066 - Spreadsheet worker require-me
```

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 38 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper III - F051-F100 17.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-066anditsassumptions, inputs, ou

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-04-P0038"
state R -> R1
node N1
representation JP(PINK-04-P0038)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 38 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pin
```

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

Source Rule / Intent

Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 39 of 106. Chapter 18 F-067 - Recalculation latency Exact expression

T_recalc=T_parse+T_dependency+max_p(T_partition,p)+T_commit Meaning. End-to-endrecalculationlatencyacrosslogicalPearlsimulationpartitions. Bound manifestations.MK,JO,M3 Gateway

stage.Bangel.beginworkbookdeclaration,JPmodel,MKcost,JOdeterministicexecution

Construct Formula-specific expression Module

MJ.PBMEF.Bangel.spreadsheets.algorithms_scaling Namespace MJ.P

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_18_F_067_Recalculati
reference "PINK-04-P0039"
state R -> R1
node N1
representation JP(PINK-04-P0039)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 39 of 106. Chapter 18 F-067 - Recalculation latency Exact ex
```

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 40 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper III - F051-F100 18.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-067anditsassumptions, inputs, ou

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-04-P0040"
state R -> R1
node N1
representation JP(PINK-04-P0040)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 40 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pin

Node Placement / Rainbow Path

R

R1

N1

U

D

C

OUT

Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

Source Rule / Intent

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 41 of 106. Chapter 19 F-068 - Spreadsheet data cost Exact expression C_data=B_store*c_store+B_transfer*c_transfer+t_cpu*c_cpu Meaning. Storage,transfer,andcomputecostremainseparatelyevidencedbeforeaggregation. Bound manifestations.MERMAID,SHIVA,MK,JO Gateway stage.Bangel.beginworkbookdeclaration,JPmodel,MKcost,JOdeterministicexecution Construct Formula-specific expression Module MJ.PBMEF.Bangel.spreadsheets.algorithms_scaling N

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.Chapter_19_F_068_Spreadsheet
reference "PINK-04-P0041"
state R -> R1
node N1
representation JP(PINK-04-P0041)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 41 of 106. Chapter 19 F-068 - Spreadsheet data cost Exact ex
```

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 42 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper III - F051-F100 19.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-068anditsassumptions, inputs, ou

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-04-P0042"
state R -> R1
node N1
representation JP(PINK-04-P0042)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 42 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pin

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Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 43 of 106.
Chapter 20 F-069 - Pearl simulation partition objec- tive Exact expression
 $J_{\text{partition}} = \alpha * \max_p(L_p) + \beta * \sum_cut(w_e) + \gamma * \max_R_breach + \delta * R_stale$
Meaning. Logical partition objective with precommitted weights;
breach term is simulation risk, not physical containment. Bound
manifestations. JP, MK, JO, SISTER Gateway
stage. Sister/EVE/MK/JO containment simulation evidence before MJ permit
Construct Formula-specific expression Module

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

```
module MJ.Rainbow.Chapter_20_F069_Pearl_simul
reference "PINK-04-P0043"
state R -> R1
node N1
representation JP(PINK-04-P0043)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 43 of 106. Chapter 20 F-069 - Pearl simulation partition obj
```

Node Placement / Rainbow Path



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 44 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper III - F051-F100 } 20.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-069anditsassumptions, inputs,

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-04-P0044"
state R -> R1
node N1
representation JP(PINK-04-P0044)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 44 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pin

NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

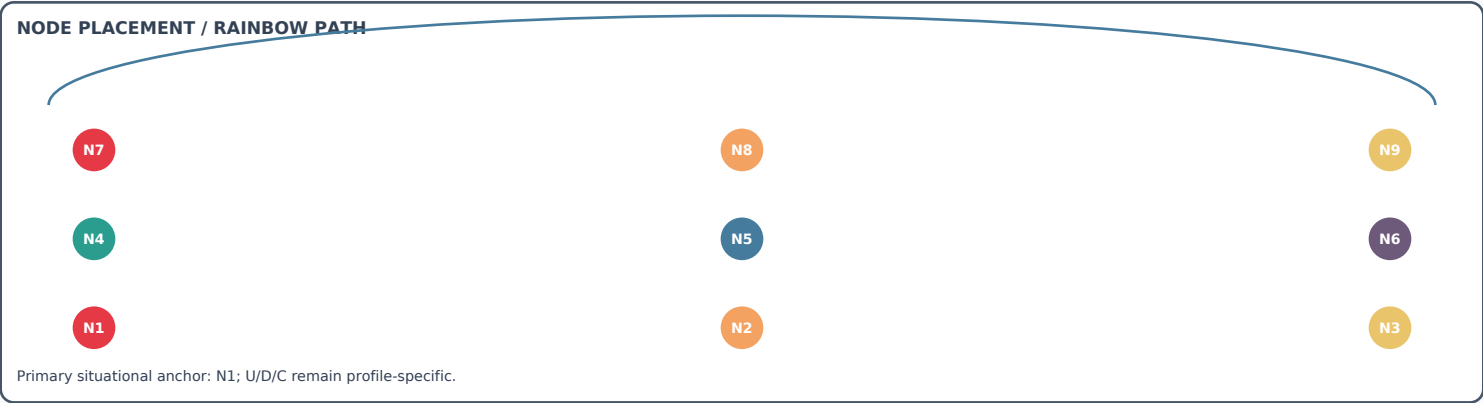
Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 45 of 106. Chapter 21 F-070 - Sheet revision root Exact expression
H_rev=SHA256(parent_root||canonical_deltas||policy_epoch) Meaning. Everycommittedchangecreatesimmutablecontent-addressedlineage. Bound manifestations.Bangel ,JP,JO,MERMAID Gateway stage.JPcanonicalrepresentation,MKapplicability,JOproof,andboundedMJoutput Construct Formula-specific expression Module MJ.PBMEF.Bangel.spreadsheets.algorithms_scaling Namespace MJ.PBME

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_21_F_070_Sheet_revis
reference "PINK-04-P0045"
state R -> R1
node N1
representation JP(PINK-04-P0045)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 45 of 106. Chapter 21 F-070 - Sheet revision root Exact expr
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 46 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper III - F051-F100 21.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-070anditsassumptions, inputs, ou

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-04-P0046"
state R -> R1
node N1
representation JP(PINK-04-P0046)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 46 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pin
```

Node Placement / Rainbow Path



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 47 of 106. Chapter 22 F-071 - Audit-particle completeness Exact expression AuditPass=AND(required_fields_present,receipts_valid) Meaning. Acriticalspreadsheetcommandfailsclosedwhenitsauditparticleisincomplete. Bound manifestations.JO,ANGELS,BELLATRIX,MERMAID Gateway stage.JPcanonicalrepresentation,MKapplicability,JOproof,andboundedMJoutput Construct Formula-specific expression Module MJ.PBMEF.Bangel.spreadsheets.algorithms_scal

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.Chapter_22_F_071_Audit_parti
reference "PINK-04-P0047"
state R -> R1
node N1
representation JP(PINK-04-P0047)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 47 of 106. Chapter 22 F-071 - Audit-particle completeness Ex
```

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 48 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper III - F051-F100 22.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-071anditsassumptions, inputs, ou

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-04-P0048"
state R -> R1
node N1
representation JP(PINK-04-P0048)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 48 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pin

Node Placement / Rainbow Path

R

R1

N1

U

D

C

OUT

Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 49 of 106. Chapter 23 F-072 - Iterative recalculation stability Exact expression $\text{spectral_radius}(J_F) < 1$ Meaning. Declared iterative formulas require an evidenced locally stable fixed-point regime. Bound manifestations. JP, MK, JO Gateway stage. JP canonical representation, MK applicability, JO proof, and bounded MJ output Construct Formula-specific expression Module MJ.PBMEF.Bangel.spreadsheets.algorithms_scaling Namespace MJ.PBMEF.Bangel.spreadsheet

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

module MJ.Rainbow.Chapter_23_F_072_Iterative_r
reference "PINK-04-P0049"
state R -> R1
node N1
representation JP(PINK-04-P0049)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 49 of 106. Chapter 23 F-072 - Iterative recalculation stabil

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 50 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper III - F051-F100 23.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-072anditsassumptions, inputs, ou

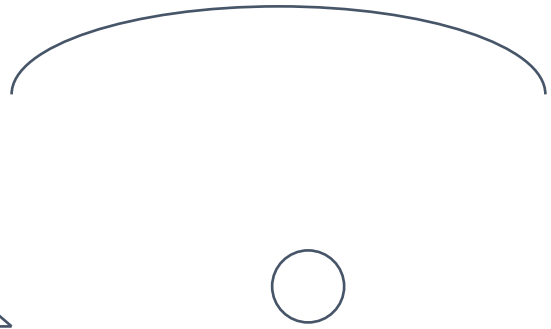
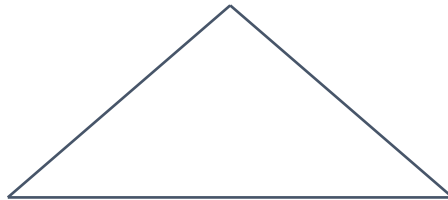
PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-04-P0050"
state R -> R1
node N1
representation JP(PINK-04-P0050)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 50 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pin

NODE PLACEMENT / RAINBOW PATH



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

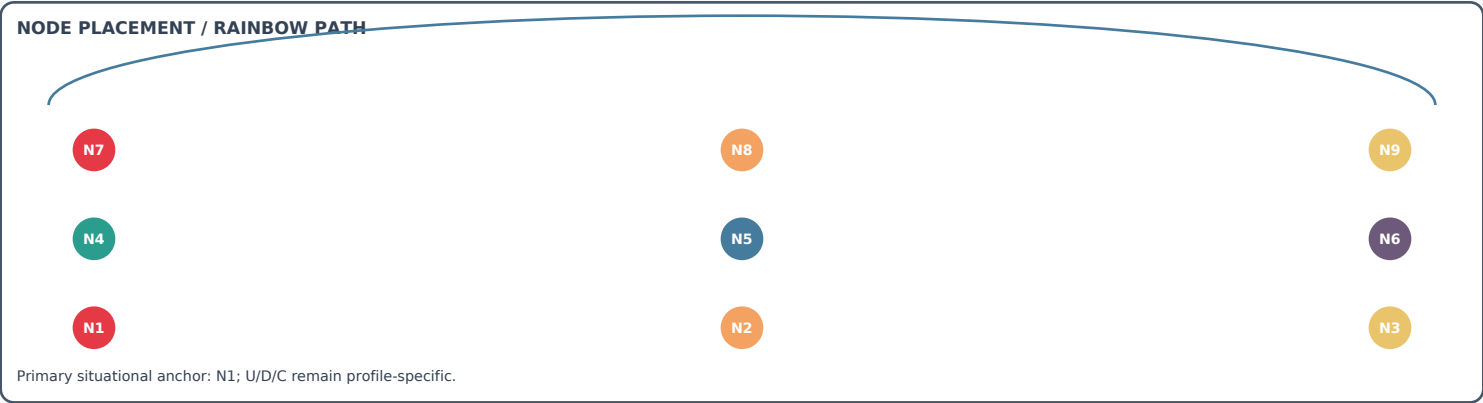
Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 51 of 106.
Chapter 24 F-073 - Revision conflict gate Exact expression
base_revision=head_revision OR valid_merge_receipt Meaning.
Stalewritescannotsilentlyoverwriteanewrevision. Bound
manifestations.Bangel ,JO,ANGELS Gateway
stage.JPcanonicalrepresentation,MKapplicability,JOproof,andboundedMJoutput
Construct Formula-specific expression Module
MJ.PBMEF.Bangel.spreadsheets.algorithms_scaling Namespace
MJ.PBMEF.Bangel.spreadsheet

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_24_F073_Revision_co
reference "PINK-04-P0051"
state R -> R1
node N1
representation JP(PINK-04-P0051)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper Volume03 Formulas F051 F100.pdf, page 51 of 106. Chapter 24 F-073 - Revision conflict gate Exact e
```

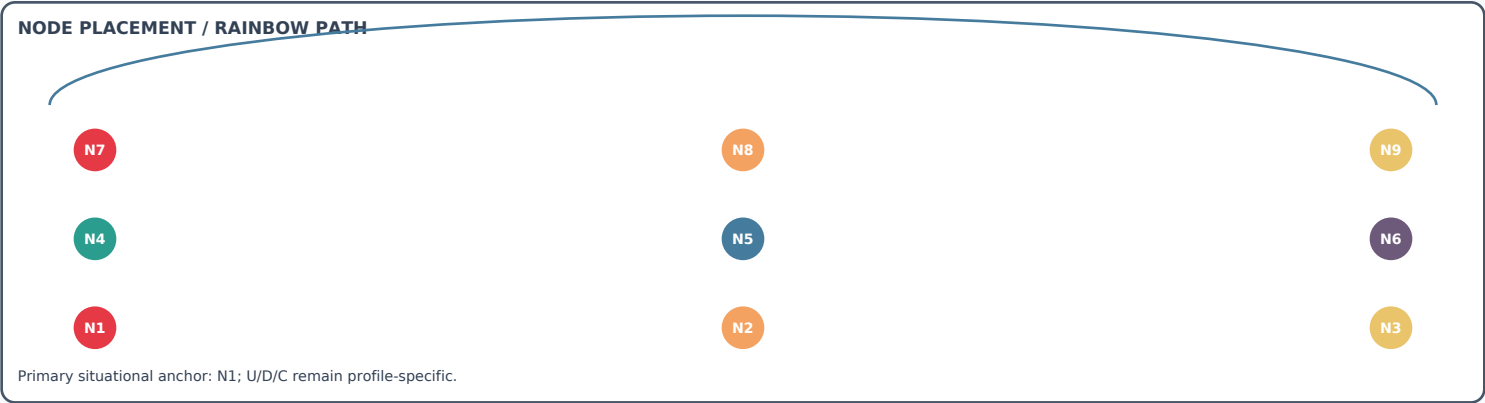


R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 52 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper III - F051-F100 24.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-073anditsassumptions, inputs, ou

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-04-P0052"
state R -> R1
node N1
representation JP(PINK-04-P0052)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 52 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pin
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 53 of 106. Chapter 25 F-074 - Freshness age Exact expression Age=now-observed_at Meaning. Ageofasourceobservationorderivedcell. Bound manifestations.JO,MK,SISTER Gateway stage.JPcanonicalrepresentation,MKapplicability,JOproof,andboundedMJoutput Construct Formula-specific expression Module MJ.PBMEF.Bangel.spreadsheets.algorithms_scaling Namespace MJ.PBMEF.Bangel.spreadsheets.algorithms_scaling.F_074 Import MJ.PBMEF.Manifest,MJ.P

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_25_F_074_Freshness_a
reference "PINK-04-P0053"
state R -> R1
node N1
representation JP(PINK-04-P0053)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 53 of 106. Chapter 25 F-074 - Freshness age Exact expression
```

Node Placement / Rainbow Path



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

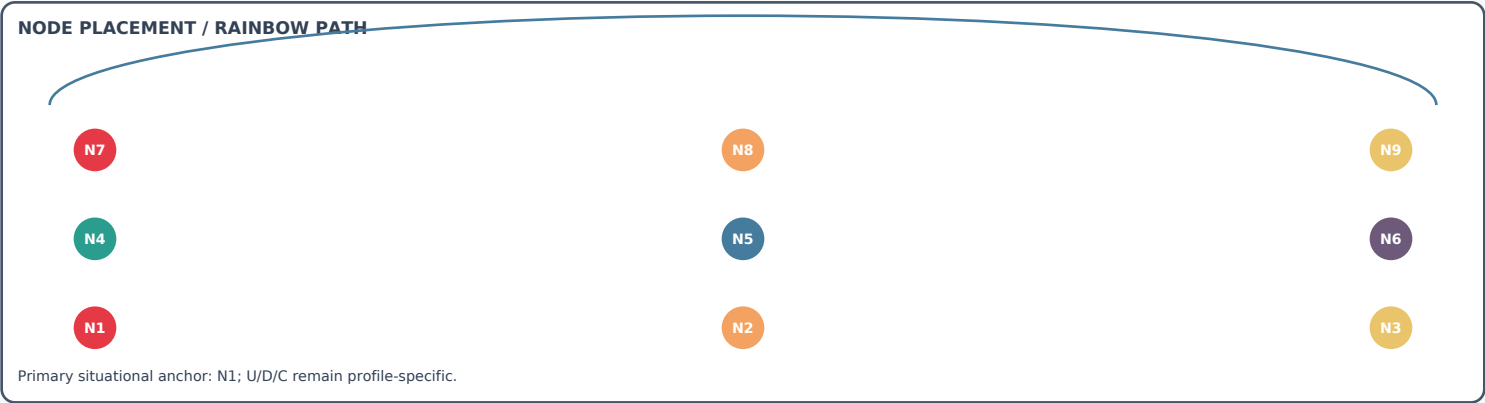
Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 54 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper III - F051-F100 25.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-074anditsassumptions, inputs, ou

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-04-P0054"
state R -> R1
node N1
representation JP(PINK-04-P0054)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 54 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pin



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 56 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper III - F051-F100 26.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-075anditsassumptions, inputs, ou

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-04-P0056"
state R -> R1
node N1
representation JP(PINK-04-P0056)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 56 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pin
```


Node Placement / Rainbow Path



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 57 of 106. Chapter 27 F-076 - Data-performance correlation Exact expression $r_{xy} = \text{Cov}(X,Y) / (\sigma_x \cdot \sigma_y)$ Meaning. Descriptive correlation between data characteristics and performance; not a causal claim. Bound manifestations. MK, JO, MERMAID Gateway stage. JP canonical representation, MK applicability, JO proof, and bounded MJ output Construct Formula-specific expression Module MJ.PBMEF.Bangel.spreadsheets.algorithms_scaling Namespace MJ.PBMEF.dena

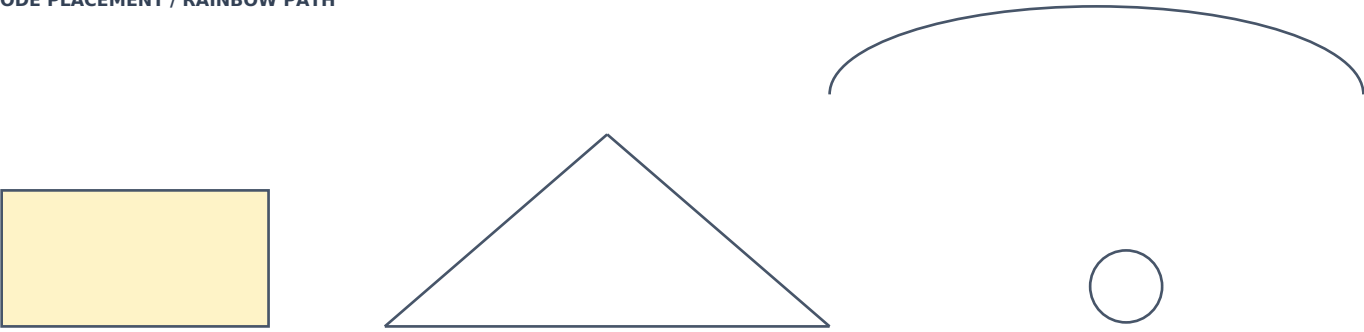
Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.Chapter_27_F_076_Data_perfor
reference "PINK-04-P0057"
state R -> R1
node N1
representation JP(PINK-04-P0057)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 57 of 106. Chapter 27 F-076 - Data-performance correlation E
```

Node Placement / Rainbow Path



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 58 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper III - F051-F100 27.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-076anditsassumptions, inputs, ou

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-04-P0058"
state R -> R1
node N1
representation JP(PINK-04-P0058)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 58 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pin
```

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 59 of 106. Chapter 28 F-077 - Silo unification gate Exact expression UnifiedMetric=SameMeaning AND SameUnit AND SamePeriod AND SameAuthority AND SameLineage Meaning. Departmentalsourcesunifyonlywhensemantic,unit,period,authority,andlineageconditionsagree. Bound manifestations.ELSA,JP,JO,MERMAID Gateway stage.JPcanonicalrepresentation,MKapplicability,JOproof,andboundedMJoutput Construct Formula-specific expression Module MJ.PB

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

module MJ.Rainbow.Chapter_28_F_077_Silo_unific
reference "PINK-04-P0059"
state R -> R1
node N1
representation JP(PINK-04-P0059)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 59 of 106. Chapter 28 F-077 - Silo unification gate Exact ex

Node Placement / Rainbow Path



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 60 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper III - F051-F100 28.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-077 and its assumptions, inputs, ou

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-04-P0060"
state R -> R1
node N1
representation JP(PINK-04-P0060)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 60 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pin
```

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 61 of 106. Chapter 29 F-078 - Formula verification residual Exact expression $r_formula=y_reported-y_recomputed$ Meaning. Silent formula corruption is detected by independent deterministic recomputation. Bound manifestations, JO, MK, ANGELS Gateway stage. JP canonical representation, MK applicability, JO proof, and bounded MJ output Construct Formula-specific expression Module MJ.PBMEF.Bangel.spreadsheets.algorithms_scaling Namespace MJ.PBMEF.Bangel.s

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_29_F_078_Formula_ver
reference "PINK-04-P0061"
state R -> R1
node N1
representation JP(PINK-04-P0061)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 61 of 106. Chapter 29 F-078 - Formula verification residual
```

Node Placement / Rainbow Path



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 62 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper III - F051-F100 29.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-078anditsassumptions, inputs, ou

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-04-P0062"
state R -> R1
node N1
representation JP(PINK-04-P0062)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 62 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pin

Node Placement / Rainbow Path



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 64 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper III - F051-F100 output JO.receipt(PASS | HOLD | FAIL_TECHNICAL | DENY) } 30.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP:

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-04-P0064"
state R -> R1
node N1
representation JP(PINK-04-P0064)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 64 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pin
```




R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 65 of 106. Chapter 31 F-080 - Spreadsheet capacity gate Exact expression $\lambda_{total} \leq \rho_{max} \sum_p (\mu_p)$ AND $memory_required \leq memory_available$ AND $cross_partition_edges \leq cut_limit$ Meaning. Admission requires throughput, memory, and partition-boundary capacity to pass together. Bound manifestations. MK, JO, M3, SISTER, MJOS Gateway stage. Bangel.begin workbook declaration, JP model, MK cost, JO deterministic execution Construct Formula-specific expr

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_31_F_080_Spreadsheet
reference "PINK-04-P0065"
state R -> R1
node N1
representation JP(PINK-04-P0065)
physics MK(classify, units, boundary, uncertainty)
verify JO(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 65 of 106. Chapter 31 F-080 - Spreadsheet capacity gate Exac
```

```

graph LR
    R((R)) --- R1((R1))
    R1 --- N1((N1))
    N1 --- U((U))
    U --- D((D))
    D --- C((C))
    C --- OUT((OUT))

```

R STATUS / OBSERVATION

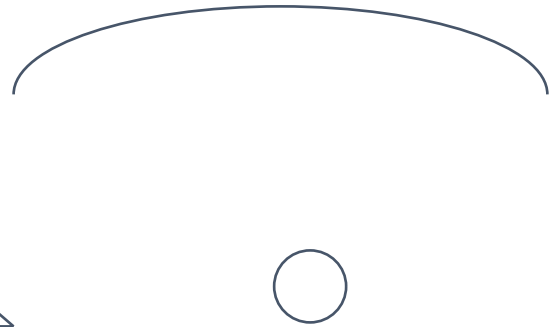
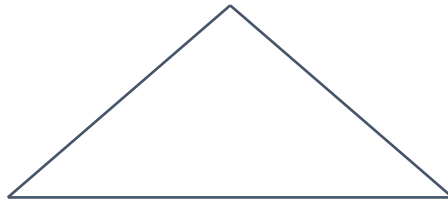
SOURCE RULE / INTENT

PATH OF EXPRESSION

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-04-P0066"
state R -> R1
node N1
representation JP(PINK-04-P0066)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 66 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pin
```

NODE PLACEMENT / RAINBOW PATH



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 67 of 106.
Chapter 32 F-081 - First-noise rectangle height Exact expression
H_R=h_noise,1 Meaning.
Rectangle maximum height is the first validated noise-detection plane. Bound
manifestations.SISTER,MK,JO Gateway
stage.R1 prediction and normal constellation calibration before N1 Construct
Formula-specific expression Module
MJ.PBMEF.contains.geometry_h2_reference.Namespace
MJ.PBMEF.contains.geometry_h2_reference.F_081 Import MJ.PBMEF.Man

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```

module MJ.Rainbow.Chapter_32_F081_First_noise
reference "PINK-04-P0067"
state R -> R1
node N1
representation JP(PINK-04-P0067)
physics MK(classify, units, boundary, uncertainty)
verify JO(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 67 of 106. Chapter 32 F-081 - First-noise rectangle height E

```

Node Placement / Rainbow Path



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 68 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper III - F051-F100 32.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-081anditsassumptions, inputs, ou

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-04-P0068"
state R -> R1
node N1
representation JP(PINK-04-P0068)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 68 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pin
```

NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 69 of 106.
Chapter 33 F-082 - Reference gas density Exact expression $\rho_{g,P} = P \cdot M / (Z \cdot R \cdot T)$
Meaning.
Actual gas density depends on measured pressure, temperature, molar mass, and compressibility. Bound manifestations. MK, JO, JP Gateway
stage. MJ.23 typed measurement branch and MK physics classification Construct
Formula-specific expression Module
MJ.PBMEF.content.geometry.h2_reference.Namespace
MJ.PBMEF.content.geometry.h2_reference.F_082.Impo

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```

module MJ.Rainbow.Chapter_33_F_082_Reference_g
reference "PINK-04-P0069"
state R -> R1
node N1
representation JP(PINK-04-P0069)
physics MK(classify, units, boundary, uncertainty)
verify JO(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 69 of 106. Chapter 33 F-082 - Reference gas density Exact ex

```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 70 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper III - F051-F100 33.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-082anditsassumptions, inputs, ou

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-04-P0070"
state R -> R1
node N1
representation JP(PINK-04-P0070)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 70 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pin
```

Node Placement / Rainbow Path

R

R1

N1

U

D

C

OUT

Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

Source Rule / Intent

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 71 of 106. Chapter 34 F-083 - 24 mg reference volume Exact expression V_24=m_24/rho_ref Meaning. 24mgdefinesareferencegasvolumeunderadeclaredstateanddoesnotreplacethe23mg floor. Bound manifestations.JP,MK,JO Gateway stage.MJ.23typedmeasurementbranchandMKphysicsclassification Construct Formula-specific expression Module MJ.PBMEF.containment.geometry_h2_reference Namespace MJ.PBMEF.containment.geometry_h2_reference.F_083 Import M

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.Chapter_34_F_083_24_mg_refer
reference "PINK-04-P0071"
state R -> R1
node N1
representation JP(PINK-04-P0071)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 71 of 106. Chapter 34 F-083 - 24 mg reference volume Exact e
```

Node Placement / Rainbow Path



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 72 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper III - F051-F100 34.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-083anditsassumptions, inputs, ou

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-04-P0072"
state R -> R1
node N1
representation JP(PINK-04-P0072)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 72 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pin
```


NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

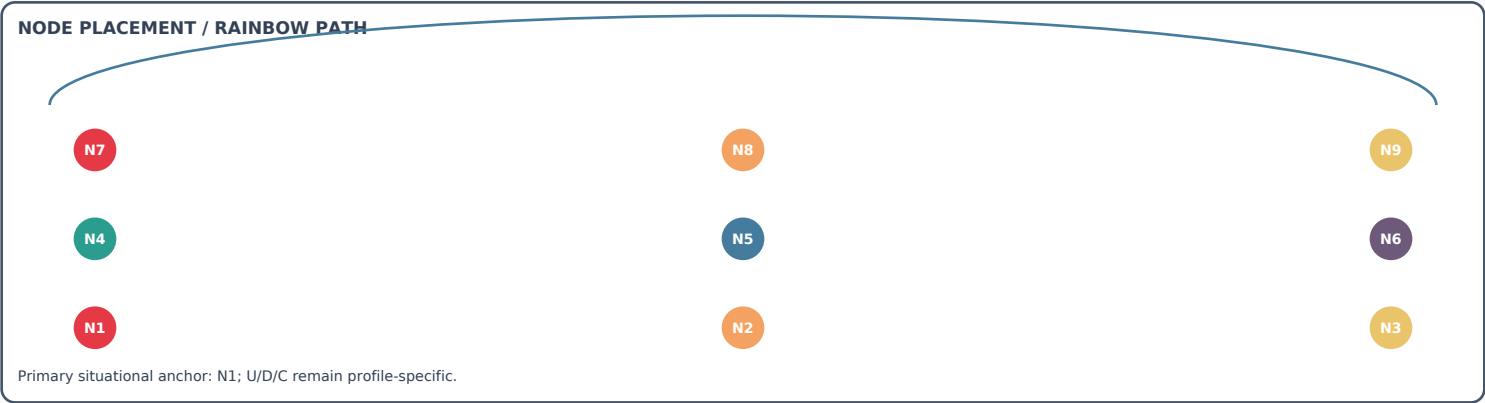
Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 73 of 106. Chapter 35 F-084 - Rectangle depth Exact expression $D_R = V_{24} / (W_R * H_R)$ Meaning. Referenced depth adapted to measured height and declared width. Bound manifestations. SISTER, MK, JO Gateway stage. JP canonical representation, MK applicability, JO proof, and bounded MJ output Construct Formula-specific expression Module MJ.PBMEF.containment.geometry_h2_reference Namespace MJ.PBMEF.containment.geometry_h2_reference.F_084 Import MJ.PBMEF.Manife

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_35_F_084_Rectangle_d
reference "PINK-04-P0073"
state R -> R1
node N1
representation JP(PINK-04-P0073)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 73 of 106. Chapter 35 F-084 - Rectangle depth Exact expressi
```



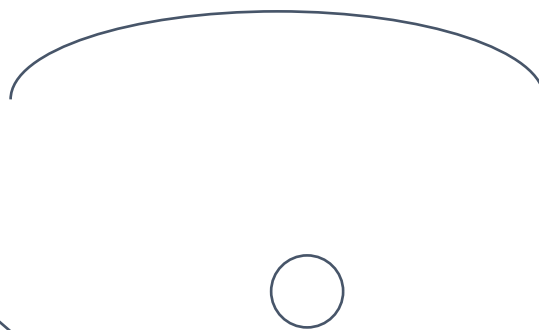
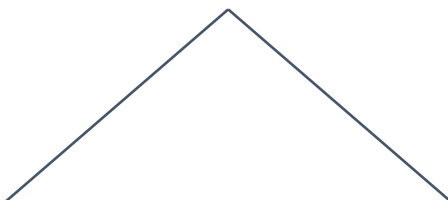
R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 74 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper III - F051-F100 35.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-084anditsassumptions, inputs, ou

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-04-P0074"
state R -> R1
node N1
representation JP(PINK-04-P0074)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 74 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pin
```

NODE PLACEMENT / RAINBOW PATH



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 75 of 106.
Chapter 36 F-085 - Cone height ratio Exact expression $H_C = k \cdot H \cdot H_R$;
 $k_{H, std} = 2$ Meaning. $StandardConeHeight$ is twice $rectangleHeight$. Bound
manifestations: JP, MK, JO Gateway
stage: JPCanonicalRepresentation, MKApplicability, JOproof, and bounded MJoutput
Construct Formula-specific expression Module
MJ.PBMEF.containment.geometry_h2_reference Namespace
MJ.PBMEF.containment.geometry_h2_reference.F_085 Import
MJ.PBMEF.Manifest, MJ.PBME

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_36_F_085_Cone_height
reference "PINK-04-P0075"
state R -> R1
node N1
representation JP(PINK-04-P0075)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper.Volume03 Formulas F051 F100.pdf, page 75 of 106. Chapter 36 F-085 - Cone height ratio Exact expres
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 76 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper III - F051-F100 36.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-085anditsassumptions, inputs, ou

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-04-P0076"
state R -> R1
node N1
representation JP(PINK-04-P0076)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 76 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pin
```

NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 77 of 106.
Chapter 37 F-086 - Cone top-width ratio Exact expression $W_T=k \cdot W \cdot B$;
 $k \cdot W$,std=2 Meaning. Standardtopcharacteristicwidthtwicebottomwidth.
Bound manifestations,JP,MK,JOGateway
stage,JPCanonicalrepresentation,MKAppliability,JOProof,andboundedMJoutput
Construct Formula-specific expression Module
MJ.PBMEF.containment.geometry_h2_reference Namespace
MJ.PBMEF.containment.geometry_h2_reference.F_086 Import MJ.PBMEF.Manif

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_37_F086_Cone_top_wi
reference "PINK-04-P0077"
state R -> R1
node N1
representation JP(PINK-04-P0077)
physics MK(classify, units, boundary, uncertainty)
verify JO(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 77 of 106. Chapter 37 F-086 - Cone top-width ratio Exact exp
```

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 78 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper III - F051-F100 37.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-086anditsassumptions, inputs, ou

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-04-P0078"
state R -> R1
node N1
representation JP(PINK-04-P0078)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 78 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pin

Node Placement / Rainbow Path



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 80 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper III - F051-F100 38.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-087anditsassumptions, inputs, ou

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-04-P0080"
state R -> R1
node N1
representation JP(PINK-04-P0080)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 80 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pin
```


Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 81 of 106. Chapter 39 F-088 - Cone partial volume Exact expression

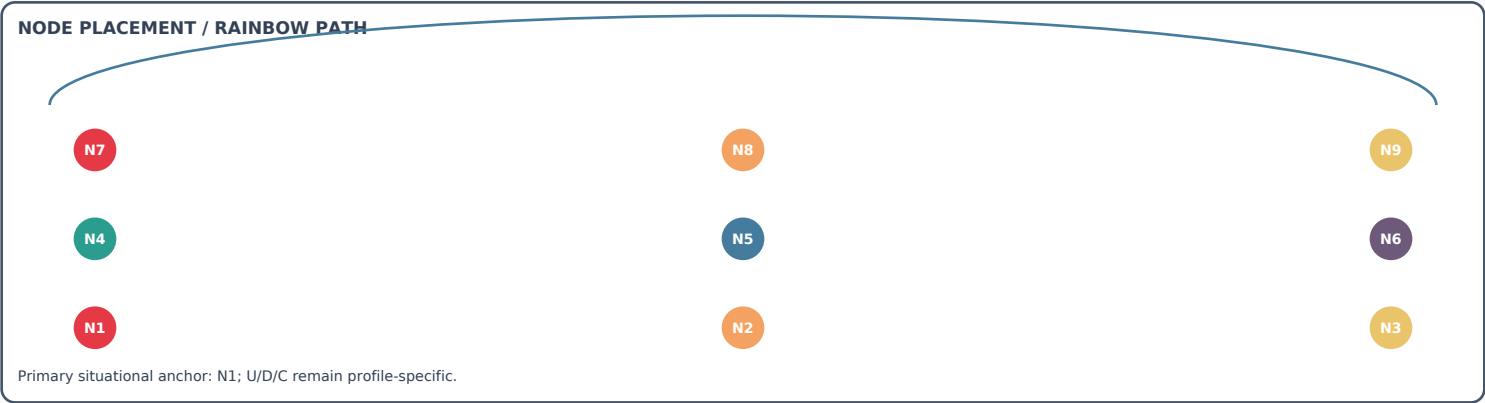
$$V_C(z)=A_B*(z+(k_W-1)z^2/H_C+(k_W-1)^2*z^3/(3H_C^2))$$
Meaning. Volume upto observed gas height. Bound manifestations. MK, JO, SISTER Gateway stage. JP canonical representation, MK applicability, JO proof, and bounded MJ output Construct Formula-specific expression Module MJ.PBMEF.containment.geometry_h2_reference Namespace MJ.PBMEF.containment.geometry_h2_reference.F_088 Import MJ

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_39_F_088_Cone_partia
reference "PINK-04-P0081"
state R -> R1
node N1
representation JP(PINK-04-P0081)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 81 of 106. Chapter 39 F-088 - Cone partial volume Exact expr
```

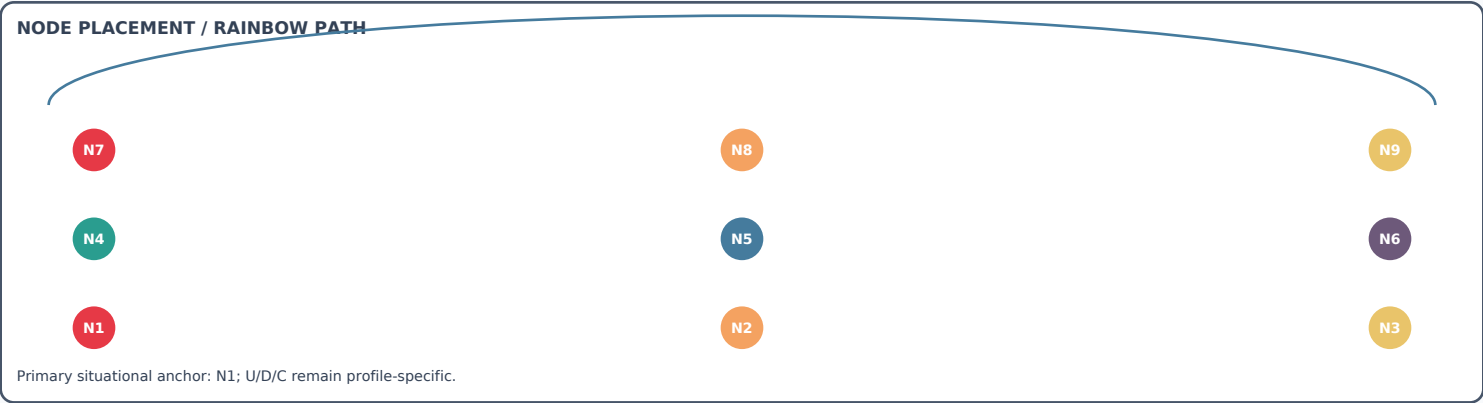


R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 82 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper III - F051-F100 39.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-088anditsassumptions, inputs, ou

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-04-P0082"
state R -> R1
node N1
representation JP(PINK-04-P0082)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 82 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pin
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 83 of 106. Chapter 40 F-089 - Full conical-frustum volume Exact expression $V_C = H_C/3*(A_B + \sqrt{A_B*A_T} + A_T)$ Meaning. Fullconicaexpansionvolume. Bound manifestations.MK,JO,JP Gateway stage.JPcanonicalrepresentation,MKapplicability,JOproof,andboundedMJoutput Construct Formula-specific expression Module MJ.PBMEF.containment.geometry_h2_reference Namespace MJ.PBMEF.containment.geometry_h2_reference.F_089 Import MJ.PBMEF.Manifest,

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_40_F_089_Full_conica
reference "PINK-04-P0083"
state R -> R1
node N1
representation JP(PINK-04-P0083)
physics MK(classify, units, boundary, uncertainty)
verify JO(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 83 of 106. Chapter 40 F-089 - Full conical-frustum volume Ex
```

Node Placement / Rainbow Path



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 84 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper III - F051-F100 40.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-089anditsassumptions, inputs, ou

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-04-P0084"
state R -> R1
node N1
representation JP(PINK-04-P0084)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 84 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pin

Node Placement / Rainbow Path



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 86 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper III - F051-F100 41.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-090anditsassumptions, inputs, ou

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-04-P0086"
state R -> R1
node N1
representation JP(PINK-04-P0086)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 86 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pin

NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

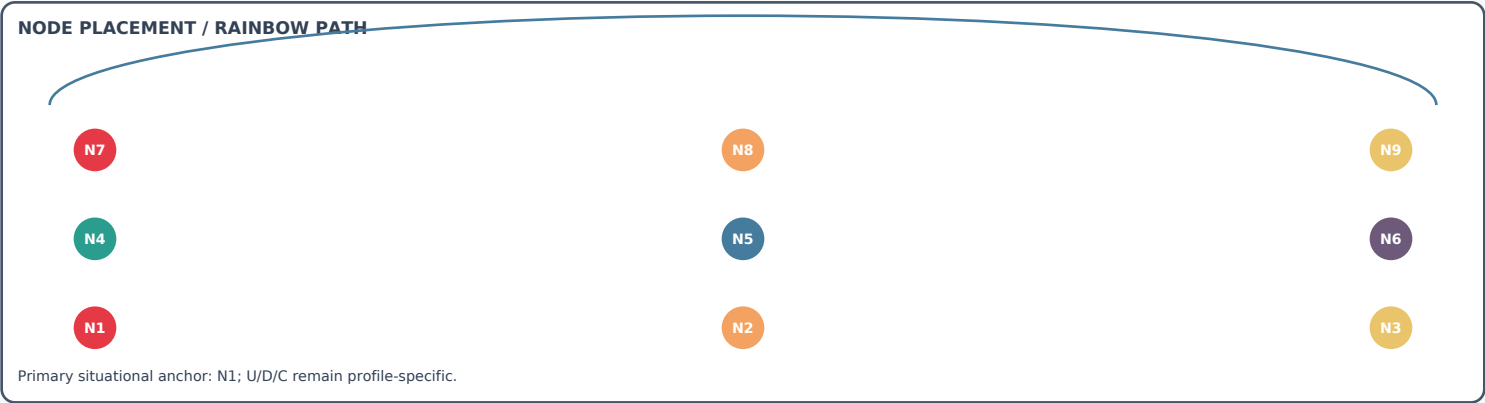
Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 87 of 106. Chapter 42 F-091 - Observed gas mass Exact expression $m_g = \rho_g \cdot V_C(h_g)$ Meaning. Gas mass from observed height and state-dependent density. Bound manifestations. MK, EVE, JO Gateway stage. MJ.23typedmeasurementbranchandMKphysicsclassification Construct Formula-specific expression Module MJ.PBMEF.containment.geometry_h2_reference Namespace MJ.PBMEF.containment.geometry_h2_reference.F_091 Import MJ.PBMEF.Manifest, MJ.PBMEF.Formul

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_42_F_091_Observed_ga
reference "PINK-04-P0087"
state R -> R1
node N1
representation JP(PINK-04-P0087)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 87 of 106. Chapter 42 F-091 - Observed gas mass Exact expres
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 88 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper III - F051-F100 42.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-091anditsassumptions, inputs, ou

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-04-P0088"
state R -> R1
node N1
representation JP(PINK-04-P0088)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 88 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pin
```


Node Placement / Rainbow Path

R

R1

N1

U

D

C

OUT

Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

Source Rule / Intent

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.Chapter_43_F_092_Gas_mass_fl
reference "PINK-04-P0089"
state R -> R1
node N1
representation JP(PINK-04-P0089)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 89 of 106. Chapter 43 F-092 - Gas mass-flow from height Exac
```

Node Placement / Rainbow Path



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 90 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper III - F051-F100 43.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-092anditsassumptions, inputs, ou

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-04-P0090"
state R -> R1
node N1
representation JP(PINK-04-P0090)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 90 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pin
```

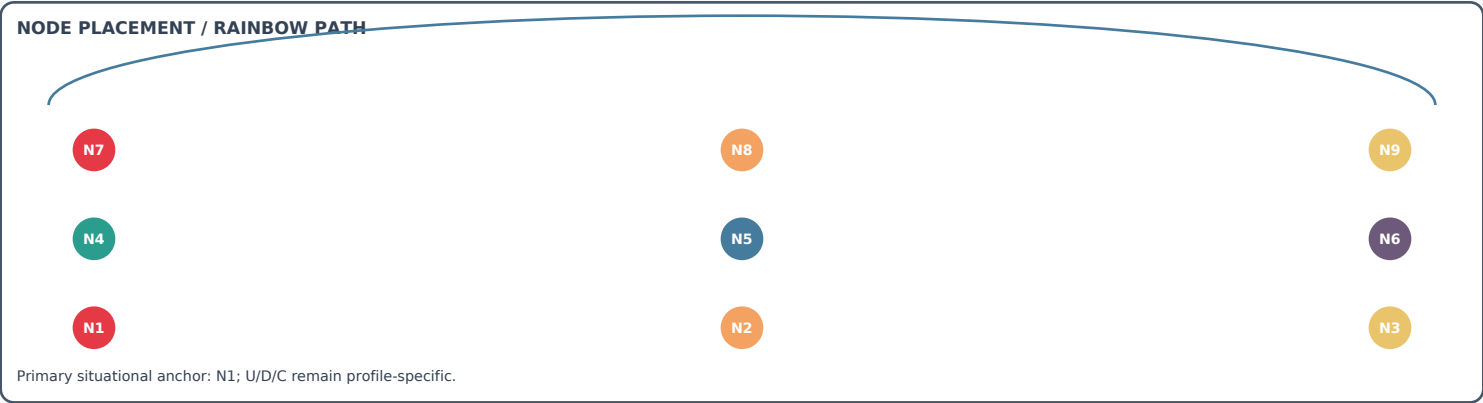


R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 91 of 106. Chapter 44 F-093 - Observed gas-height predictor Exact expression $\hat{h} = \text{clip}(h + v \cdot dt + 0.5 \cdot a \cdot dt^2, 0, H_C)$ Meaning. Bounded prediction of observed gas-front height. Bound manifestations. SISTER, MK, JO Gateway stage. MJ.23 typed measurement branch and MK physics classification Construct Formula-specific expression Module MJ.PBMEF.containment.geometry_h2_reference Namespace MJ.PBMEF.containment.geometry_h2_reference.F_093 Import MJ.PBMEF.

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_44_F_093_Observed_ga
reference "PINK-04-P0091"
state R -> R1
node N1
representation JP(PINK-04-P0091)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 91 of 106. Chapter 44 F-093 - Observed gas-height predictor
```



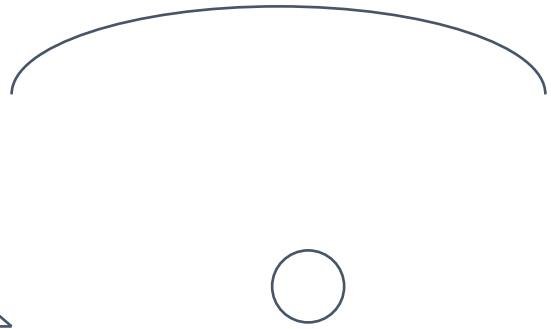
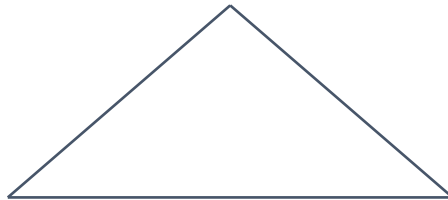
R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 92 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper III - F051-F100 44.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-093anditsassumptions, inputs, ou

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-04-P0092"
state R -> R1
node N1
representation JP(PINK-04-P0092)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 92 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pin
```

NODE PLACEMENT / RAINBOW PATH



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 93 of 106.
Chapter 45 F-094 - Gas net-force balance Exact expression
 $m_{eff} a_z = F_{b+f} + F_{act} F_{d-f} wall_f_{mix}$ Meaning.
Geometry alone does not guarantee acceleration. Bound
manifestations. MK, JO, SISTER Gateway
stage. MJ. 23 typed measurement branch and MK physics classification Construct
Formula-specific expression Module
MJ.PBMEF.contains.geometry.h2_reference.Namespace
MJ.PBMEF.contains.geometry.h2_reference.F_094 Import MJ.PBMEF.Mani

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```

module MJ.Rainbow.Chapter_45_F094_Gas_net_for
reference "PINK-04-P0093"
state R -> R1
node N1
representation JP(PINK-04-P0093)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper.Volume03 Formulas F051 F100.pdf, page 93 of 106. Chapter 45 F-094 - Gas net-force balance Exact ex

```

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 94 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper III - F051-F100 45.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-094anditsassumptions, inputs, ou

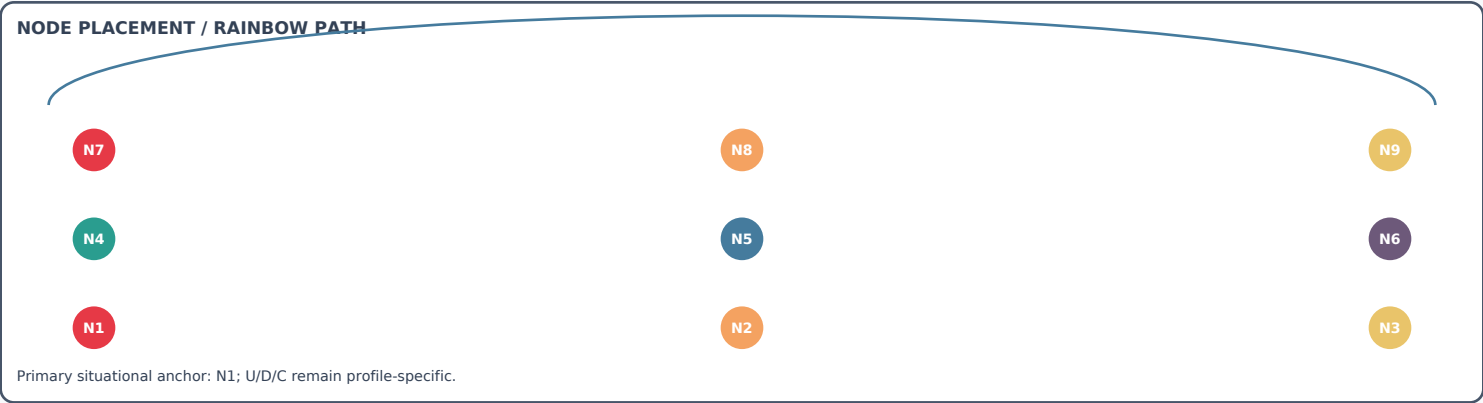
PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-04-P0094"
state R -> R1
node N1
representation JP(PINK-04-P0094)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 94 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pin





R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 96 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper III - F051-F100 46.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-095anditsassumptions, inputs, ou

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-04-P0096"
state R -> R1
node N1
representation JP(PINK-04-P0096)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 96 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pin
```


Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

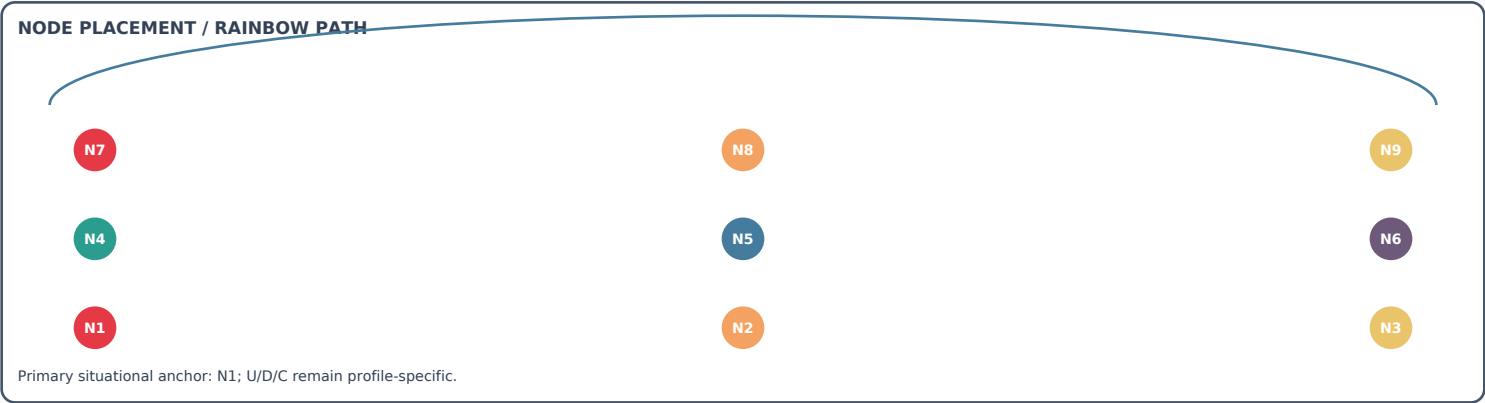
Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 97 of 106. Chapter 47 F-096 - Drag force Exact expression $F_d=0.5\cdot C_d\cdot \rho_{\text{ambient}}\cdot A_{\text{projected}}\cdot u\cdot \text{abs}(u)$ Meaning. Referencedragtermunderdeclaredcoefficientandflow. Bound manifestations.MK,JO,EVE Gateway stage.JPcanonicalrepresentation,MKapplicability,JOproof,andboundedMJoutput Construct Formula-specific expression Module MJ.PBMEF.containment.geometry_h2_reference Namespace MJ.PBMEF.containment.geometry_h2_reference.F_096 Import M

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

module MJ.Rainbow.Chapter_47_F_096_Drag_force_
reference "PINK-04-P0097"
state R -> R1
node N1
representation JP(PINK-04-P0097)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 97 of 106. Chapter 47 F-096 - Drag force Exact expression F_



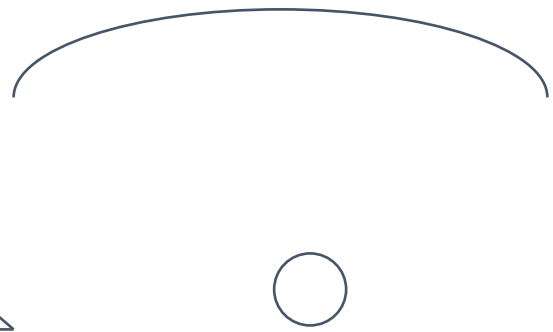
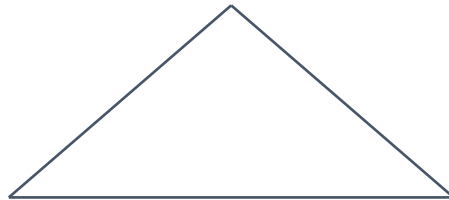
R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 98 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper III - F051-F100 47.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-096anditsassumptions, inputs, ou

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-04-P0098"
state R -> R1
node N1
representation JP(PINK-04-P0098)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 98 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pin
```

NODE PLACEMENT / RAINBOW PATH



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 99 of 106.
Chapter 48 F-097 - Flow continuity Exact expression $Q=A(z)*u(z)$ Meaning.
For fixed flow, increasing area does not itself accelerate the gas. Bound
manifestations. MK, JO, SISTER Gateway
stage. JPCanonical representation, MKapplicability, JOproof, and bounded MJoutput
Construct Formula-specific expression Module
MJ.PBMEF.containment.geometry_h2_reference Namespace
MJ.PBMEF.containment.geometry_h2_reference.F_097 Import
MJ.PBMEF.Manifest,

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_48_F_097_Flow_contin
reference "PINK-04-P0099"
state R -> R1
node N1
representation JP(PINK-04-P0099)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper Volume03 Formulas F051 F100.pdf, page 99 of 106. Chapter 48 F-097 - Flow continuity Exact expressi
```

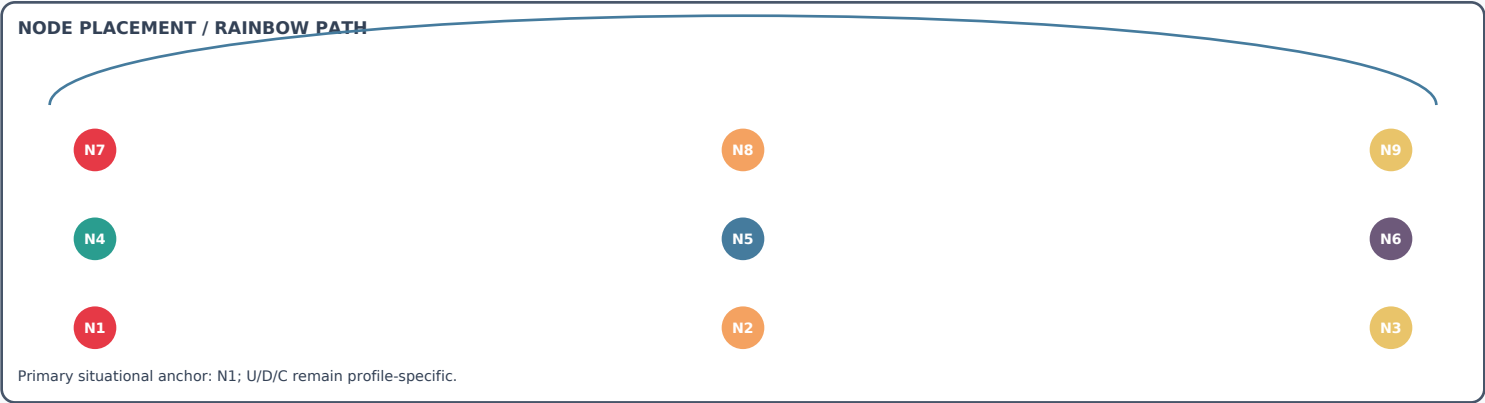


R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 100 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper III - F051-F100 48.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-097anditsassumptions, inputs, ou

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-04-P0100"
state R -> R1
node N1
representation JP(PINK-04-P0100)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 100 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pi
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 101 of 106. Chapter 49 F-098 - Residual reservoir capacity Exact expression $C_{res,k} = \gamma_k C_{rect,k}$; $0 \leq \gamma_k < 1$ Meaning. Residualreservoirremainssmallerthanrectanglecapacity. Bound manifestations.SISTER,EVE,JO Gateway stage.Sister/EVE/MK/JOcontainmentorsimulationevidencebeforeMJpermit Construct Formula-specific expression Module MJ.PBMEF.containment.geometry_h2_reference Namespace MJ.PBMEF.containment.geometry_h2_ref

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_49_F_098_Residual_re
reference "PINK-04-P0101"
state R -> R1
node N1
representation JP(PINK-04-P0101)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 101 of 106. Chapter 49 F-098 - Residual reservoir capacity E
```

Node Placement / Rainbow Path



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 102 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper III - F051-F100 49.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-098anditsassumptions, inputs, ou

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-04-P0102"
state R -> R1
node N1
representation JP(PINK-04-P0102)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 102 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pi
```

Node Placement / Rainbow Path



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

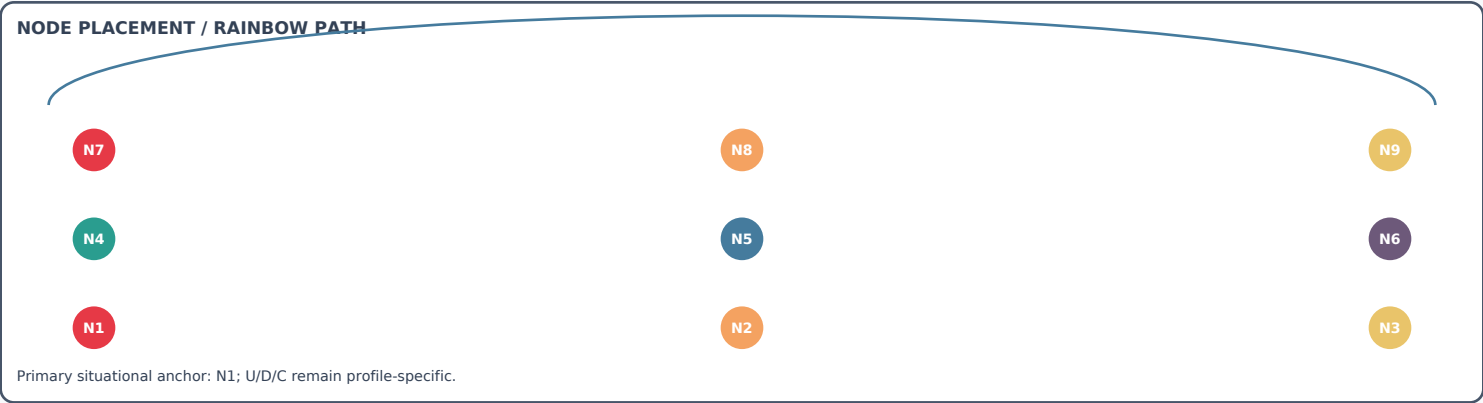
Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 103 of 106. Chapter 50 F-099 - Umbrella/EVE/reservoir balance Exact expression $q_{cone}=q_{down}+q_{EVE}+q_{res}+q_{escape}+r$ Meaning. Downward redistribution, EVE evidence, reservoir admission, and escape are separately accounted. Bound manifestations.EVE,SISTER,MERMAID Gateway stage.Sister/EVE/MK/JOcontainmentorsimulationevidencebeforeMJpermit Construct Formula-specific expression Module MJ.PBMEF.containment.geometry_h2_reference Namesp

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.Chapter_50_F_099_Umbrella_EV
reference "PINK-04-P0103"
state R -> R1
node N1
representation JP(PINK-04-P0103)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 103 of 106. Chapter 50 F-099 - Umbrella/EVE/reservoir balanc
```



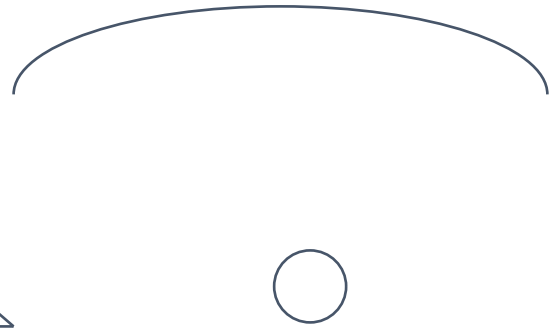
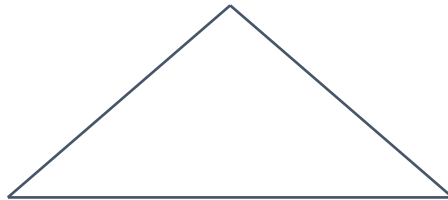
R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 104 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper III - F051-F100 50.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-099anditsassumptions, inputs, ou

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-04-P0104"
state R -> R1
node N1
representation JP(PINK-04-P0104)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 104 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pi
```


NODE PLACEMENT / RAINBOW PATH



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 105 of 106.
Chapter 51 F-100 - Containment modification predicate Exact expression
Valid(theta)=typed&positive&recomputed&conserved&bounded&evidenced&MK&J&O&Mj
Meaning. Size changes preserve conservation but require full recalculation and gates.
Bound manifestations. Bangle JP, MK, JO, MJ Gateway
stage. Sister/EVE/MK/JO containment or simulation evidence before MJ permit
Construct Formula-specific expression Module
MJ.PBMEF.containment.geometry_h2_ref

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_51_F_100_Containment
reference "PINK-04-P0105"
state R -> R1
node N1
representation JP(PINK-04-P0105)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper.Volume03 Formulas F051 F100.pdf, page 105 of 106. Chapter 51 F-100 - Containment modification pred
```

Node Placement / Rainbow Path



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 106 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper III - F051-F100 51.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-100anditsassumptions, inputs, ou

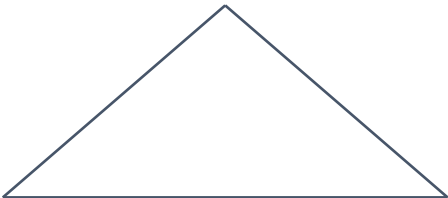
Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-04-P0106"
state R -> R1
node N1
representation JP(PINK-04-P0106)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume03_Formulas_F051_F100.pdf, page 106 of 106. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pi
```

NODE PLACEMENT / RAINBOW PATH



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 1 of 96. MJ-PBMEFPinkPaper-VolumeIV FormulaGatewayBindingsF-101throughF-145 MichaelBangel-AuthorandArchitect August2026

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.MJ_PBMEFPinkPaper_VolumeIV_F
reference "PINK-05-P0001"
state R -> R1
node N1
representation JP(PINK-05-P0001)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 1 of 96. MJ-PBMEFPinkPaper-VolumeIV FormulaGatewayBindingsF-
```

```

graph LR
    R((R)) --- R1((R1))
    R1 --- N1((N1))
    N1 --- U((U))
    U --- D((D))
    D --- C((C))
    C --- OUT((OUT))

```

R STATUS / OBSERVATION

SOURCE RULE / INTENT

PATH OF EXPRESSION

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Contents_1_Verification_meth
reference "PINK-05-P0002"
state R -> R1
node N1
representation JP(PINK-05-P0002)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 2 of 96. Contents 1 Verification method 5 2 F-101 - Rear out
```

Node Placement / Rainbow Path



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

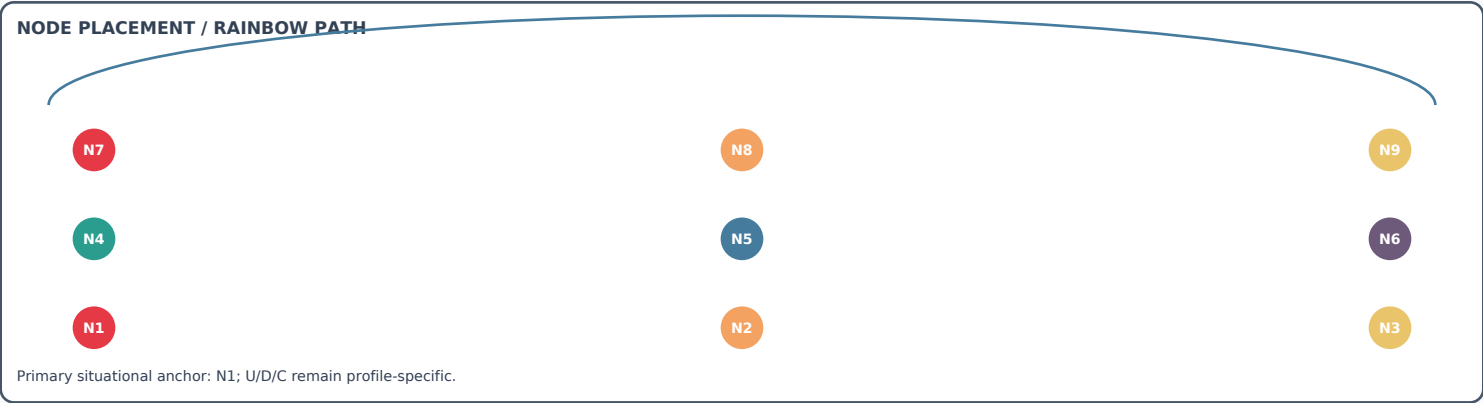
Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 3 of 96.
PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper IV - F101-F145
13.2Lifecyclefromrequeststofinaloutput29
14F-113 - Circular return-port area 30 14.1Gatewaylife-cycleexample
.....30 14.2Lifecyclefromrequeststofinaloutput ...
.....31 15F-114

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-05-P0003"
state R -> R1
node N3
representation JP(PINK-05-P0003)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 3 of 96. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink
```



R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 4 of 96. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper IV - F101-F145 29F-128 - Outlet transfer conservation 60 29.1Gatewaylife-cycleexample 60 29.2Lifecyclefromrequesttofinaloutput 61 30F-129 - Re-entry recalculation vector 62 30.1Gatewaylife-cycleexample

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-05-P0004"
state R -> R1
node N1
representation JP(PINK-05-P0004)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 4 of 96. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink
```

Node Placement / Rainbow Path



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

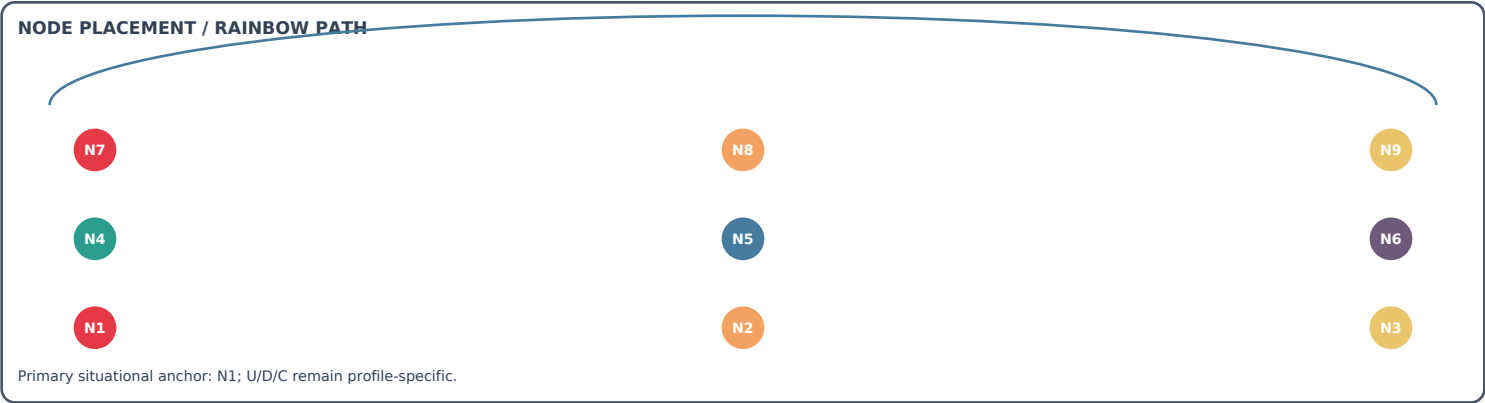
Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 5 of 96.
PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper IV - F101-F145
44F-143 - Vector reservoir headroom 90 44.1Gatewaylife-cycleexample
.90 44.2Lifecyclefromrequesttofinaloutput .
.91 45F-144 - Vector reservoir admission 92
45.1Gatewaylife-cycleexample

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-05-P0005"
state R -> R1
node N1
representation JP(PINK-05-P0005)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 5 of 96. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 6 of 96. Chapter 1 Verification method Each formula receives the same twenty-construct Bangel identity, a gateway-stage assignment, a life-cycleexample, andexplicitvidenceandethicsboundaries. Therepetitivestructureisintentional: it allowsformula-by-formulafounderreviewandlaterautomatedcompletenesschecking. 5

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_1_Verification_metho
reference "PINK-05-P0006"
state R -> R1
node N1
representation JP(PINK-05-P0006)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 6 of 96. Chapter 1 Verification method Each formula receives
```


NODE PLACEMENT / RAINBOW PATH

N7

N4

N1

N8

N5

N2

N9

N6

N3

Primary situational anchor: N1; U/D/C remain profile-specific.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 7 of 96. Chapter 2 F-101 - Rear outlet elevation Exact expression $z_{out}=H_P-\delta_z$; $0<\delta_z<H_P$ Meaning. Outlet is below the containment maximum height. Bound manifestations. SISTER, MK, JO Gateway stage. Sister/EVE/MK/JO containment simulation evidence before MJ permit Construct Formula-specific expression Module MJ.PBMEF.reservoir.outlet_lake_reentry_friction Namespace MJ.PBMEF.reservoir.outlet_lake_reentry_friction.F_101 Import MJ.PB

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_2_F_101_Rear_outlet_
reference "PINK-05-P0007"
state R -> R1
node N1
representation JP(PINK-05-P0007)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 7 of 96. Chapter 2 F-101 - Rear outlet elevation Exact expre
```

Node Placement / Rainbow Path



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 8 of 96. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper IV - F101-F145 2.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-101anditsassumptions, inputs, outp

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-05-P0008"
state R -> R1
node N1
representation JP(PINK-05-P0008)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 8 of 96. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 9 of 96. Chapter 3 F-102 - Pearl simulation exclusion ra- dius Exact expression $R_P, sim = R_{top} + c_P; c_P \geq 0$ Meaning. Nonphysicalreferencecircleplusdeclaredclearance. Bound manifestations. PEARL, MK, JO Gateway stage. Sister/EVE/MK/JO containmentsimulationevidencebeforeMJpermit Construct Formula-specific expression Module MJ.PBMEF.reservoir.outlet_lake_reentry_friction Namespace MJ.PBMEF.reservoir.outlet_lake_reentry_friction.F_102

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_3_F_102_Pearl_simula
reference "PINK-05-P0009"
state R -> R1
node N1
representation JP(PINK-05-P0009)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 9 of 96. Chapter 3 F-102 - Pearl simulation exclusion ra- di
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 10 of 96. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper IV - F101-F145 3.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-102anditsassumptions, inputs, outp

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-05-P0010"
state R -> R1
node N1
representation JP(PINK-05-P0010)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 10 of 96. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink
```

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 11 of 96. Chapter 4 F-103 - Outward-tangential outlet direction Exact expression $d_{out} = \cos(\alpha_{out})t + \sin(\alpha_{out})n_{out}$; $0 < \alpha_{out} < \pi/2$ Meaning. Slight positive outward cant from the local tangent. Bound manifestations. JP, MK, JO Gateway stage. Sister/EVE/MK/JO containment or simulation evidence before MJ permit Construct Formula-specific expression Module MJ.PBMEF.reservoir.outlet_lake_reentry_friction Namespace MJ.PBMEF.reservoir.outl

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_4_F_103_Outward_tang
reference "PINK-05-P0011"
state R -> R1
node N1
representation JP(PINK-05-P0011)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 11 of 96. Chapter 4 F-103 - Outward-tangential outlet direc-
```

Internal reference only. No physical validation, operation authority, product certification, external effect, IP approval, or external effect. MJ.PBMEF.reservoir.outlet_lake_reentry_friction Namespace MJ.PBMEF.reservoir.outl

MJos Predictive Model | First manifestation of the Bangel Language

MJ Physics Engineering | Owned and operated by Michael Bangel | Clearwater, Florida

RAINBOW | Original collection page 8448 | Terminology edition; source evidence remains historical

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 12 of 96. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper IV - F101-F145 4.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-103anditsassumptions, inputs, outp

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-05-P0012"
state R -> R1
node N1
representation JP(PINK-05-P0012)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 12 of 96. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink

NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

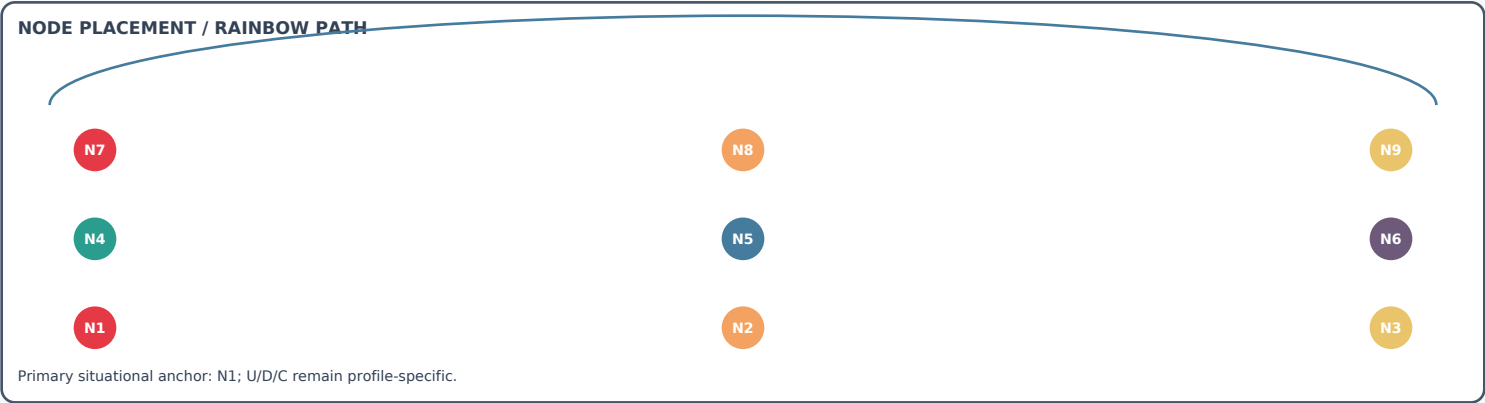
Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 13 of 96. Chapter 5 F-104 - Outside-circle outlet path Exact expression $||\gamma(s)-c_P||^2=R_P^2+2R_Ps\sin(\alpha_{out})+s^2$ Meaning. PathremainsoutsidethePearlsimulationcirclefors>0. Bound manifestations.PEARL,MK,JO Gateway stage.Sister/EVE/MK/JOcontainmentorsimulationevidencebeforeMJpermit Construct Formula-specific expression Module MJ.PBMEF.reservoir.outlet_lake_reentry_friction Namespace MJ.PBMEF.reservoir.outlet_lake_reent

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_5_F_104_Outside_circ
reference "PINK-05-P0013"
state R -> R1
node N1
representation JP(PINK-05-P0013)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 13 of 96. Chapter 5 F-104 - Outside-circle outlet path Exact
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 14 of 96. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper IV - F101-F145 5.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-104anditsassumptions, inputs, outp

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-05-P0014"
state R -> R1
node N1
representation JP(PINK-05-P0014)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 14 of 96. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink
```


NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 15 of 96. Chapter 6 F-105 - Reservoir volume balance Exact expression $dV_L/dt=Q_{out}-Q_{return}-Q_{drain}-Q_{escape}$ Meaning. Connectedlake-likebuffercontrol-volumebalance. Bound manifestations.SISTER,EVE,MERMAID,JO Gateway stage.Sister/EVE/MK/JOcontainmentorsimulationevidencebeforeMJpermit Construct Formula-specific expression Module MJ.PBMEF.reservoir.outlet_lake_reentry_friction Namespace MJ.PBMEF.reservoir.outlet_lake_reentry_fri

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_6_F_105_Reservoir_vo
reference "PINK-05-P0015"
state R -> R1
node N1
representation JP(PINK-05-P0015)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 15 of 96. Chapter 6 F-105 - Reservoir volume balance Exact e
```

Node Placement / Rainbow Path



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 16 of 96. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper IV - F101-F145 6.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-105anditsassumptions, inputs, outp

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-05-P0016"
state R -> R1
node N1
representation JP(PINK-05-P0016)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 16 of 96. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink
```

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

Source Rule / Intent

Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 17 of 96. Chapter 7 F-106 - Typed reservoir quantity balance Exact expression $dq_L/dt=q_{out},k-q_{return},k-q_{drain},k-q_{escape},k$ Meaning. Per-dimensionbalanceprevents cross-unitcollapse. Bound manifestations.SISTER,EVE,MERMAID,JO Gateway stage.Sister/EVE/MK/JOcontainmentorsimulationevidencebeforeMJpermit Construct Formula-specific expression Module MJ.PBMEF.reservoir.outlet_lake_reentry_friction Namespace MJ.PBMEF.reservoir.ou

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

module MJ.Rainbow.Chapter_7_F_106_Typed_reserv
reference "PINK-05-P0017"
state R -> R1
node N1
representation JP(PINK-05-P0017)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 17 of 96. Chapter 7 F-106 - Typed reservoir quantity balance Exact expression



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 18 of 96. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper IV - F101-F145 7.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-106anditsassumptions, inputs, outp

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-05-P0018"
state R -> R1
node N1
representation JP(PINK-05-P0018)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 18 of 96. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink
```

NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 19 of 96.
Chapter 8 F-107 - Required buffer volume, Exit expression
 $V_{L, req} = T \cdot \text{hold} \cdot \max(0, Q_{out} - H \cdot Q_{return}, L) + V_{residual}$, H Meaning.
Conservative buffer capacity from inflow - return mismatch and residual. Bound
manifestations. MK, SISTER, JO Gateway
stage. Reservoir/lake/re-entry reference pathway and successor-cycle evidence
Construct Formula-specific expression Module
MJ.PBMEF.reservoir.outlet lake.reentry.friction Namespace MJ.PBMEF.reservoir

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_8_F_107_Required_buf
reference "PINK-05-P0019"
state R -> R1
node N1
representation JP(PINK-05-P0019)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper Volume04 Formulas F101 F145.pdf, page 19 of 96. Chapter 8 F-107 - Required buffer volume Exact exp
```

Node Placement / Rainbow Path



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 20 of 96. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper IV - F101-F145 8.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-107anditsassumptions, inputs, outp

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-05-P0020"
state R -> R1
node N1
representation JP(PINK-05-P0020)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 20 of 96. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink
```

NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 21 of 96. Chapter 9 F-108 - Outlet area lower bound Exact expression
A_out>=Q_design/u_out,max Meaning.
Areasizingfromconservativedesignflowandallowablevelocity. Bound manifestations.MK,JO Gateway stage.Sister/EVE/MK/JOcontainmentorsimulationevidencebeforeMJpermit Construct Formula-specific expression Module
MJ.PBMEF.reservoir.outlet_lake_reentry_friction Namespace
MJ.PBMEF.reservoir.outlet_lake_reentry_friction.F_108 Import M

PATH OF EXPRESSION

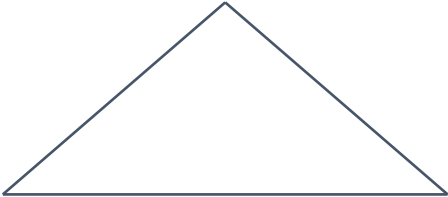
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_9_F_108_Outlet_area_
reference "PINK-05-P0021"
state R -> R1
node N1
representation JP(PINK-05-P0021)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 21 of 96. Chapter 9 F-108 - Outlet area lower bound Exact ex
```

Node Placement / Rainbow Path









Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 22 of 96. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper IV - F101-F145 9.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-108anditsassumptions, inputs, outp

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-05-P0022"
state R -> R1
node N1
representation JP(PINK-05-P0022)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 22 of 96. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink
```


Node Placement / Rainbow Path



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 23 of 96. Chapter 10 F-109 - Circular outlet radius lower bound Exact expression $r_{out} \geq \sqrt{A_{out}/\pi}$ Meaning. Circularoutletradiusderivedfromrequiredarea. Bound manifestations.MK,JO Gateway stage.Sister/EVE/MK/JOcontainmentorsimulationevidencebeforeMJpermit Construct Formula-specific expression Module MJ.PBMEF.reservoir.outlet_lake_reentry_friction Namespace MJ.PBMEF.reservoir.outlet_lake_reentry_friction.F_109 Import MJ.PBM

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.Chapter_10_F_109_Circular_ou
reference "PINK-05-P0023"
state R -> R1
node N1
representation JP(PINK-05-P0023)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 23 of 96. Chapter 10 F-109 - Circular outlet radius lower bo
```

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 24 of 96. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper IV - F101-F145 10.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-109anditsassumptions, inputs, out

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-05-P0024"
state R -> R1
node N1
representation JP(PINK-05-P0024)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 24 of 96. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

Source Rule / Intent

Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 25 of 96. Chapter 11 F-110 - Bounded drip impulse Exact expression
J_drop=m_drop*v_drop<=J_drop,max Meaning.
Small-dischargereferenceobjective;thresholdrequiresevidence. Bound manifestations.MK,ANGELS,JO Gateway stage.Reservoir/lake/re-entryreferencepathwayandsuccessor-cycleevidence
Construct Formula-specific expression Module
MJ.PBMEF.reservoir.outlet_lake_reentry_friction Namespace
MJ.PBMEF.reservoir.outlet_lake_reentry_fric

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

module MJ.Rainbow.Chapter_11_F_110_Bounded_dri
reference "PINK-05-P0025"
state R -> R1
node N1
representation JP(PINK-05-P0025)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 25 of 96. Chapter 11 F-110 - Bounded drip impulse Exact expr

Node Placement / Rainbow Path



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 26 of 96. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper IV - F101-F145 11.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-110anditsassumptions, inputs, out

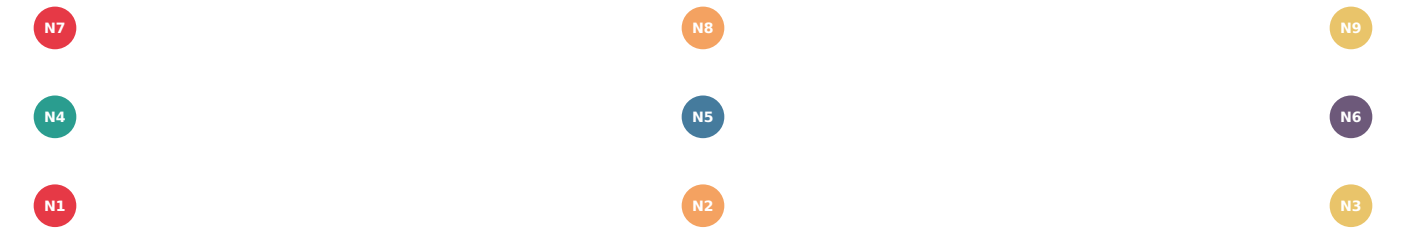
Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-05-P0026"
state R -> R1
node N1
representation JP(PINK-05-P0026)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 26 of 96. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink
```

NODE PLACEMENT / RAINBOW PATH



Primary situational anchor: N1; U/D/C remain profile-specific.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 27 of 96.
Chapter 12 F-111 - Small-wave energy reference Exact expression
 $E_{\text{wave}} \approx 0.5 \cdot \rho \cdot g \cdot a \cdot \text{wave}^2 \cdot A_{\text{surface}}$ Meaning.
Applies only under small-amplitude liquid-surface assumptions. Bound
manifestations. MK, JO, EVE Gateway
stage. Sister/EVE/MK/JO contain mentors simulation evidence before MJ permit
Construct Formula-specific expression Module
MJ.PBMEF.reservoir.outlet_lake_reentry_fraction Namespace
MJ.PBMEF.reservoir.outlet_lake_reentry_fri

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_12_F_111_Small_wave_
reference "PINK-05-P0027"
state R -> R1
node N1
representation JP(PINK-05-P0027)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper Volume04 Formulas F101 F145.pdf, page 27 of 96. Chapter 12 F-111 - Small-wave energy reference Exa
```

Node Placement / Rainbow Path



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 28 of 96. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper IV - F101-F145 12.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-111anditsassumptions, inputs, out

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-05-P0028"
state R -> R1
node N1
representation JP(PINK-05-P0028)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 28 of 96. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink
```

NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

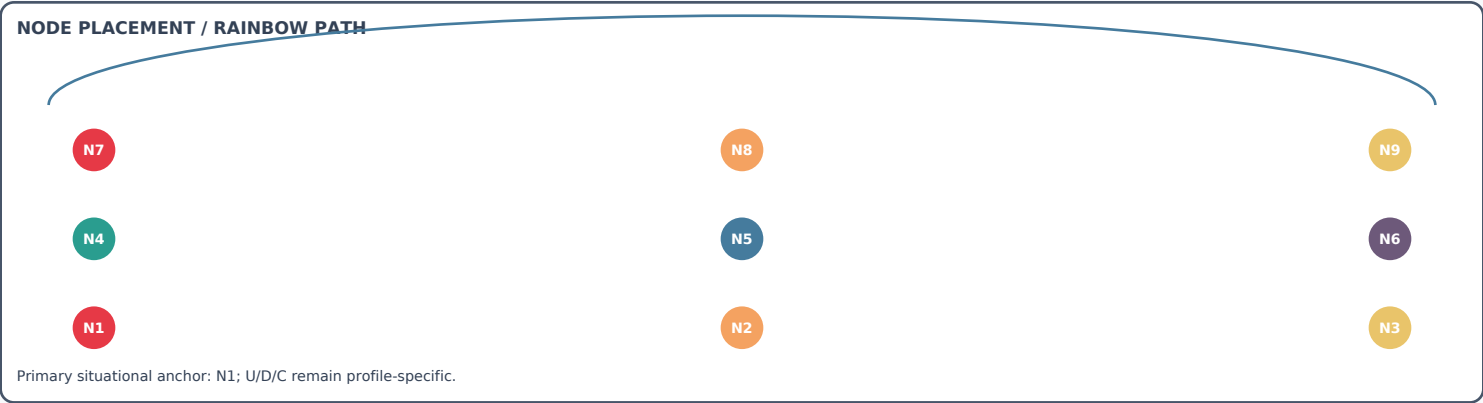
Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 29 of 96. Chapter 13 F-112 - Froude reference Exact expression $Fr=U/\sqrt{gL}$ Meaning. Flow-regimereference;Fr<1isaconditionalsubcriticaltarget. Bound manifestations.MK,JO Gateway stage.Reservoir/lake/re-entryreferencepathwayandsuccessor-cycleevidence Construct Formula-specific expression Module MJ.PBMEF.reservoir.outlet_lake_reentry_friction Namespace MJ.PBMEF.reservoir.outlet_lake_reentry_friction.F_112 Import MJ.PBMEF.Manife

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_13_F_112_Froude_refe
reference "PINK-05-P0029"
state R -> R1
node N1
representation JP(PINK-05-P0029)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 29 of 96. Chapter 13 F-112 - Froude reference Exact expressi
```



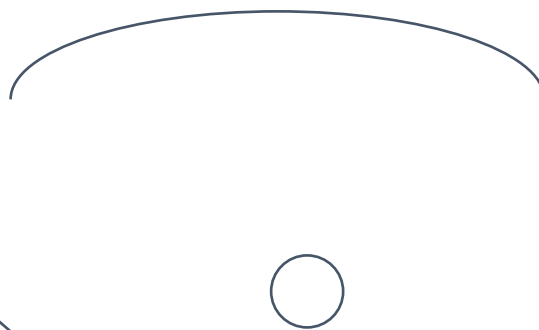
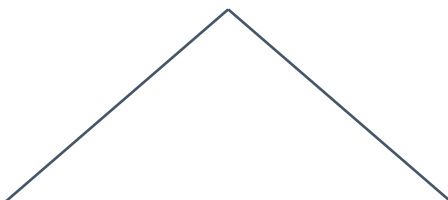
R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 30 of 96. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper IV - F101-F145 13.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-112anditsassumptions, inputs, out

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-05-P0030"
state R -> R1
node N1
representation JP(PINK-05-P0030)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 30 of 96. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink
```


NODE PLACEMENT / RAINBOW PATH



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 31 of 96.
Chapter 14 F-113 - Circular return-port area Exact expression $A_{in} = \pi r^2 \sin^2$
Meaning. Circularre-entrycross-section. Bound manifestations.MKJO Gateway
stage.Reservoir/lake/re-entryreferencepathwayandsuccessor-cycleevidence
Construct Formula-specific expression Module
MJ.PBMEF.reservoir.outlet_lake_reentry_friction Namespace
MJ.PBMEF.reservoir.outlet_lake_reentry_friction.F_113 Import
MJ.PBMEF.Manifest.MJ.PBMEF.Formu

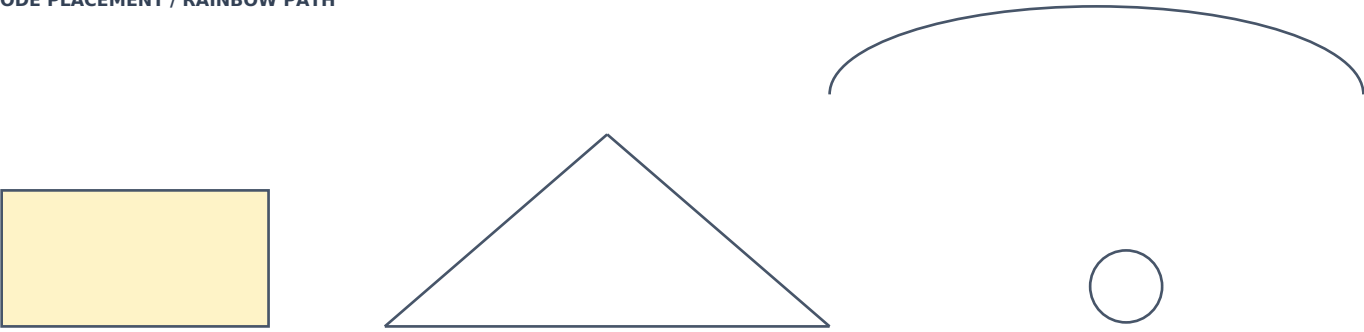
PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_14_F_113_Circular_re
reference "PINK-05-P0031"
state R -> R1
node N1
representation JP(PINK-05-P0031)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper Volume04 Formulas F101 F145.pdf, page 31 of 96. Chapter 14 F-113 - Circular return-port area Exact
```

Node Placement / Rainbow Path



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 32 of 96. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper IV - F101-F145 14.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-113anditsassumptions, inputs, out

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-05-P0032"
state R -> R1
node N1
representation JP(PINK-05-P0032)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 32 of 96. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 33 of 96. Chapter 15 F-114 - Inward-tangential reentry com-ponents Exact expression $u_r = -U \sin(\beta_{in})$; $u_{\theta} = \sigma U \cos(\beta_{in})$ Meaning. σ Small inward angle plus tangential component; no vortex proof. Bound manifestations. SISTER, MK, JO Gateway stage. Sister/EVE/MK/JO containment or simulation evidence before MJ permit Construct Formula-specific expression Module MJ.PBMEF.reservoir.outlet_lake_reentry_friction Namespace MJ.PBMEF.reservoir

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_15_F_114_Inward_tang
reference "PINK-05-P0033"
state R -> R1
node N1
representation JP(PINK-05-P0033)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 33 of 96. Chapter 15 F-114 - Inward-tangential reentry com-
```

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 34 of 96. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper IV - F101-F145 15.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-114anditsassumptions, inputs, out

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-05-P0034"
state R -> R1
node N1
representation JP(PINK-05-P0034)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 34 of 96. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

Source Rule / Intent

Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 35 of 96. Chapter 16 F-115 - Spiral compatibility ratio Exact expression $\chi_{\text{spiral}} = |u_{\text{theta}}| / \max(|u_r|, \epsilon)$ Meaning. Referenceratiofortangential-dominantreentry. Bound manifestations.MK,JO Gateway stage.Reservoir/lake/re-entryreferencepathwayandsuccessor-cycleevidence Construct Formula-specific expression Module MJ.PBMEF.reservoir.outlet_lake_reentry_friction Namespace MJ.PBMEF.reservoir.outlet_lake_reentry_friction.F_115

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_16_F_115_Spiral_comp
reference "PINK-05-P0035"
state R -> R1
node N1
representation JP(PINK-05-P0035)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 35 of 96. Chapter 16 F-115 - Spiral compatibility ratio Exac
```

Node Placement / Rainbow Path



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 36 of 96. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper IV - F101-F145 16.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-115anditsassumptions, inputs, out

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-05-P0036"
state R -> R1
node N1
representation JP(PINK-05-P0036)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 36 of 96. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink
```

NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

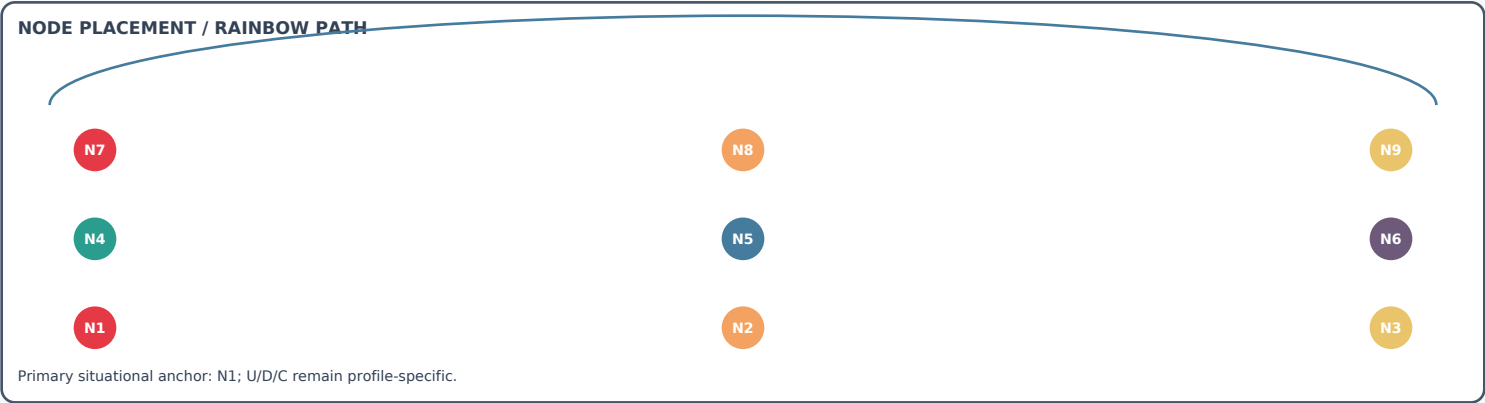
Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 37 of 96.
Chapter 17 F-116 - Return continuity Exact expression $Q_{\text{return}} = A_{\text{in}} u_{\text{n}}$
Meaning. Re-entry flow through the circular port. Bound
manifestations.MK,JO,SISTER Gateway
stage.Reservoir/lake/re-entry reference pathway and successor-cycle evidence
Construct Formula-specific expression Module
MJ.PBMEF.reservoir.outlet_lake_reentry_friction Namespace
MJ.PBMEF.reservoir.outlet_lake_reentry_friction.F_116 Import
MJ.PBMEF.Manifest,MJ.PBME

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_17_F_116_Return_cont
reference "PINK-05-P0037"
state R -> R1
node N1
representation JP(PINK-05-P0037)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper Volume04 Formulas F101 F145.pdf, page 37 of 96. Chapter 17 F-116 - Return continuity Exact express
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 38 of 96. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper IV - F101-F145 17.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-116anditsassumptions, inputs, out

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-05-P0038"
state R -> R1
node N1
representation JP(PINK-05-P0038)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 38 of 96. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink
```


NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 39 of 96. Chapter 18 F-117 - Relative-frame velocity Exact expression $v_{rel}=v_B-v_A-\Omega_A \times r$ Meaning. Coordinate-frame-relativemotion;perspectivedoesnotcreateenergy. Bound manifestations.MK,JO Gateway stage.N1prediction-firstallocation,M3routing,andG123reconciliation Construct Formula-specific expression Module MJ.PBMEF.reservoir.outlet_lake_reentry_friction Namespace MJ.PBMEF.reservoir.outlet_lake_reentry_friction.F_117 lm

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_18_F_117_Relative_fr
reference "PINK-05-P0039"
state R -> R1
node N1
representation JP(PINK-05-P0039)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 39 of 96. Chapter 18 F-117 - Relative-frame velocity Exact e
```

Node Placement / Rainbow Path



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

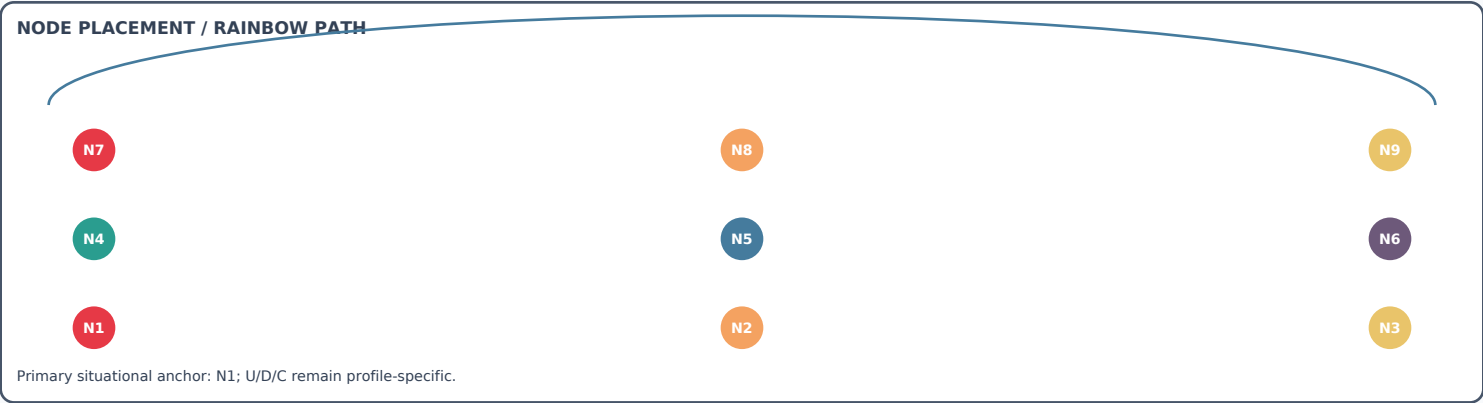
Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 40 of 96. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper IV - F101-F145 18.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-117anditsassumptions, inputs, out

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-05-P0040"
state R -> R1
node N1
representation JP(PINK-05-P0040)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 40 of 96. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 41 of 96. Chapter 19 F-118 - Frictional dissipation Exact expression $P_{diss} = \max(0, -F_f \cdot v_{rel})$ Meaning. Measured frame-relative frictional dissipation. Bound manifestations. MK, JO, MERMAID Gateway stage. Reservoir/lake/re-entry reference pathway and successor-cycle evidence Construct Formula-specific expression Module MJ.PBMEF.reservoir.outlet_lake_reentry_friction Namespace MJ.PBMEF.reservoir.outlet_lake_reentry_friction.F_118 Import

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_19_F_118_Frictional_
reference "PINK-05-P0041"
state R -> R1
node N1
representation JP(PINK-05-P0041)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 41 of 96. Chapter 19 F-118 - Frictional dissipation Exact ex
```

Node Placement / Rainbow Path



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 42 of 96. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper IV - F101-F145 19.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-118anditsassumptions, inputs, out

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-05-P0042"
state R -> R1
node N1
representation JP(PINK-05-P0042)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 42 of 96. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink
```

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

Source Rule / Intent

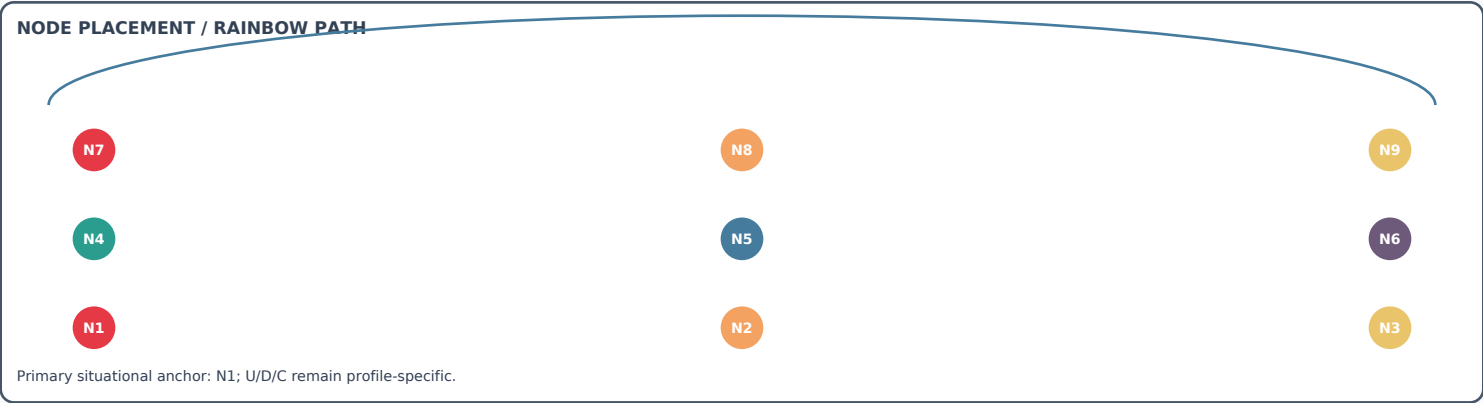
Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 43 of 96. Chapter 20 F-119 - Recoverable friction-energy bound Exact expression $E_{rec} \leq \eta_{rec} \cdot \int (P_{diss} dt)$; $0 \leq \eta_{rec} \leq 1$ Meaning. Nophysical recovery without an evidenced conversion mechanism. Bound manifestations. MK, JO, MERMAID, SHIVA Gateway stage. Reservoir/lake/re-entry reference pathway and successor-cycle evidence Construct Formula-specific expression Module MJ.PBMEF.reservoir.outlet_lake_reentry_friction Namespace MJ.PBMEF.r

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.Chapter_20_F_119_Recoverable
reference "PINK-05-P0043"
state R -> R1
node N1
representation JP(PINK-05-P0043)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 43 of 96. Chapter 20 F-119 - Recoverable friction-energy bou
```



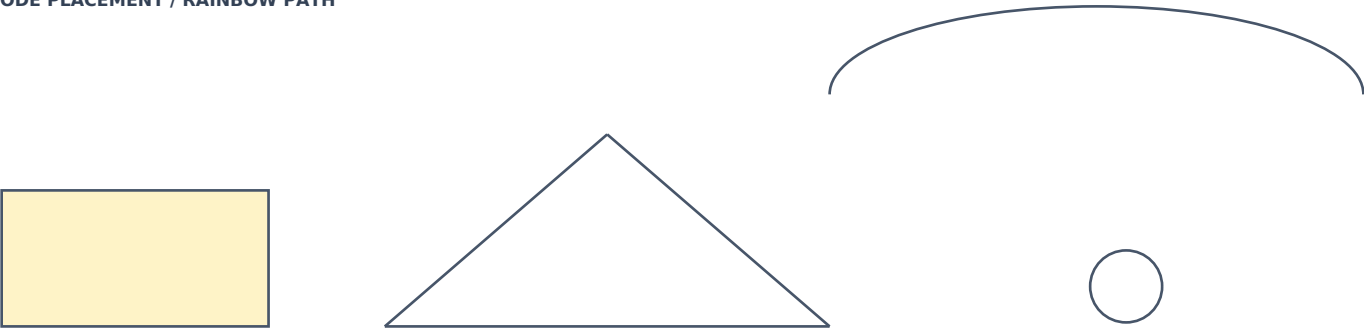
R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 44 of 96. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper IV - F101-F145 20.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-119anditsassumptions, inputs, out

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-05-P0044"
state R -> R1
node N1
representation JP(PINK-05-P0044)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 44 of 96. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink
```

Node Placement / Rainbow Path



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 45 of 96. Chapter 21 F-120 - Reservoir transaction gate Exact expression Admit=AngelPass&M3Lease&MKPass&JOPass&MermaidReconciled&MJPermit Meaning. Everyreservoirtransferrequiressafety.routing.physics.proof.reconciliation.andpermit. Bound manifestations.ANGELS,M3,MK,JO,MERMAID,MJ Gateway stage.Sister/EVE/MK/JOcontainmentorsimulationevidencebeforeMJpermit Construct Formula-specific expression Module MJ.PBMEF.reservoir.outlet_lak

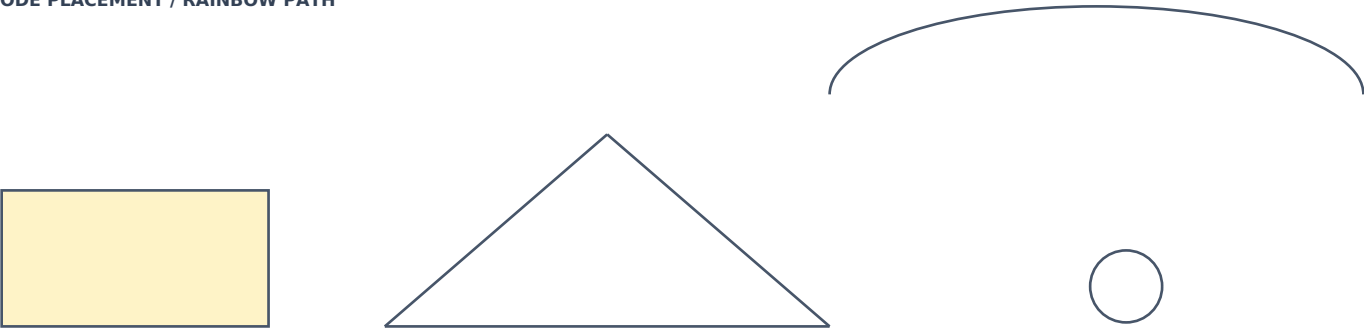
Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.Chapter_21_F_120_Reservoir_t
reference "PINK-05-P0045"
state R -> R1
node N1
representation JP(PINK-05-P0045)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 45 of 96. Chapter 21 F-120 - Reservoir transaction gate Exac
```

Node Placement / Rainbow Path



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

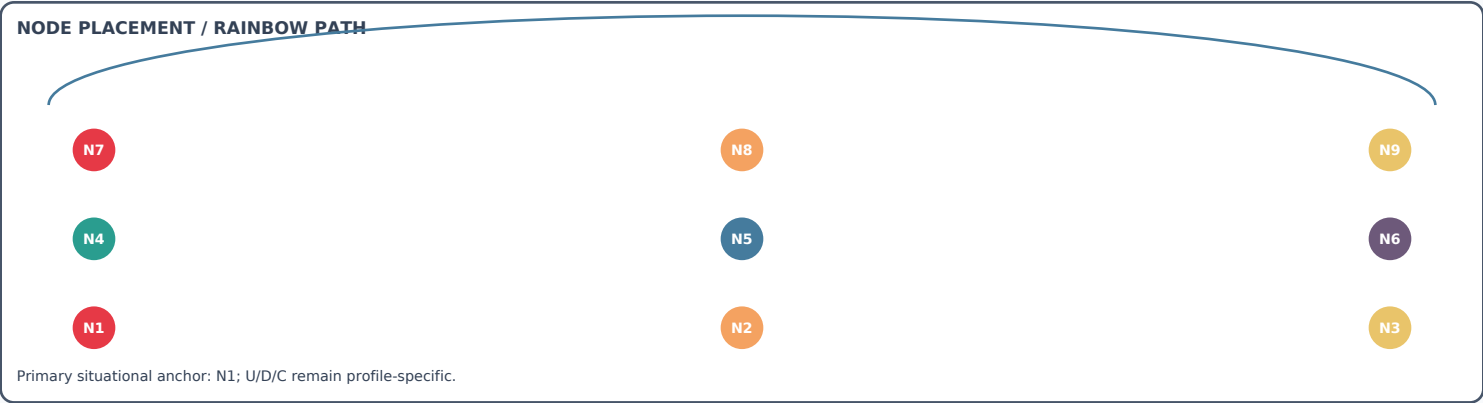
R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 46 of 96. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper IV - F101-F145 21.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-120anditsassumptions, inputs, out

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-05-P0046"
state R -> R1
node N1
representation JP(PINK-05-P0046)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 46 of 96. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink
```

R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 47 of 96. Chapter 22 F-121 - Re-entry swirl ratio Exact expression $\chi_i = u_{\theta i} / \max(u_r , \epsilon_u)$ Meaning. Representstangential-to-inwardre-entryvelocity. Bound manifestations.MK,JO Gateway stage.Reservoir/lake/re-entryreferencepathwayandsuccessor-cycleevidence Construct Formula-specific expression Module MJ.PBMEF.reservoir.outlet_lake_reentry_friction Namespace MJ.PBMEF.reservoir.outlet_lake_reentry_friction.F_121 Impor

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_22_F_121_Re_entry_sw
reference "PINK-05-P0047"
state R -> R1
node N1
representation JP(PINK-05-P0047)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 47 of 96. Chapter 22 F-121 - Re-entry swirl ratio Exact expr
```

Node Placement / Rainbow Path



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 48 of 96. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper IV - F101-F145 22.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-121anditsassumptions, inputs, out

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-05-P0048"
state R -> R1
node N1
representation JP(PINK-05-P0048)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 48 of 96. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink
```

Node Placement / Rainbow Path

R

R1

N1

U

D

C

OUT

Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 49 of 96. Chapter 23 F-122 - Re-entry processing cycle Exact expression cycle_reentry=cycle_exit+1 Meaning. Prohibitssame-cyclefeedbackandcreatesanewreceiptchain. Bound manifestations.JO,M3,SISTER Gateway stage.Reservoir/lake/re-entryreferencepathwayandsuccessor-cycleevidence Construct Formula-specific expression Module MJ.PBMEF.reservoir.outlet_lake_reentry_friction Namespace MJ.PBMEF.reservoir.outlet_lake_reentry_friction.F_

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.Chapter_23_F_122_Re_entry_pr
reference "PINK-05-P0049"
state R -> R1
node N1
representation JP(PINK-05-P0049)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 49 of 96. Chapter 23 F-122 - Re-entry processing cycle Exact
```

Node Placement / Rainbow Path



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 50 of 96. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper IV - F101-F145 23.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-122anditsassumptions, inputs, out

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-05-P0050"
state R -> R1
node N1
representation JP(PINK-05-P0050)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 50 of 96. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink
```

Node Placement / Rainbow Path



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 51 of 96. Chapter 24 F-123 - Perspective transform residual Exact expression $r_{Pi}=x_{B-T_A_to_B}*x_{A}$ Meaning. Measuresdisagreementaftertransformingobservationsbetweenreferenceframes. Bound manifestations.MK,JO,EVE,MERMAID Gateway stage.Reservoir/lake/re-entryreferencepathwayandsuccessor-cycleevidence Construct Formula-specific expression Module MJ.PBMEF.reservoir.outlet_lake_reentry_friction Namespace MJ.PBMEF.reservoir.outlet_!

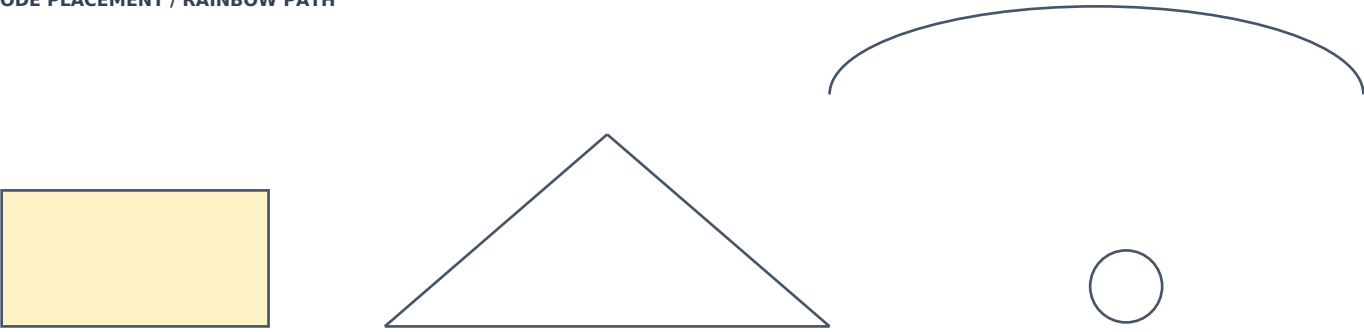
Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.Chapter_24_F_123_Perspective
reference "PINK-05-P0051"
state R -> R1
node N1
representation JP(PINK-05-P0051)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 51 of 96. Chapter 24 F-123 - Perspective transform residual
```

Node Placement / Rainbow Path



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 52 of 96. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper IV - F101-F145 24.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-123anditsassumptions, inputs, out

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-05-P0052"
state R -> R1
node N1
representation JP(PINK-05-P0052)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 52 of 96. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 53 of 96. Chapter 25 F-124 - Physical pressure-flow dissipation Exact expression $E_{diss} = \int (\Delta p(t) \cdot Q(t) dt)$ Meaning. Stores measured physical dissipation only when pressure and flow are evidenced. Bound manifestations. MK, JO, MERMAID Gateway stage. Reservoir/lake/re-entry reference pathway and successor-cycle evidence Construct Formula-specific expression Module MJ.PBMEF.reservoir.outlet_lake_reentry_friction Namespace MJ.PBMEF.reservoir.o

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_25_F_124_Physical_pr
reference "PINK-05-P0053"
state R -> R1
node N1
representation JP(PINK-05-P0053)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 53 of 96. Chapter 25 F-124 - Physical pressure-flow dissipation Exact expression
```

Node Placement / Rainbow Path



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 54 of 96. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper IV - F101-F145 25.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-124anditsassumptions, inputs, out

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-05-P0054"
state R -> R1
node N1
representation JP(PINK-05-P0054)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 54 of 96. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink
```


Node Placement / Rainbow Path

R

R1

N1

U

D

C

OUT

Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 55 of 96. Chapter 26 F-125 - Information friction Exact expression
C_info=int(B_residual(t)dt) Meaning.
Storesunresolvedinformationormemorycostwithouttreatingitasenergy. Bound manifestations.JO,M3,MERMAID Gateway
stage.Reservoir/lake/re-entryreferencepathwayandsuccessor-cycleevidence
Construct Formula-specific expression Module
MJ.PBMEF.reservoir.outlet_lake_reentry_friction Namespace
MJ.PBMEF.reservoir.outlet_lake_reentry_fri

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

module MJ.Rainbow.Chapter_26_F_125_Information
reference "PINK-05-P0055"
state R -> R1
node N1
representation JP(PINK-05-P0055)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 55 of 96. Chapter 26 F-125 - Information friction Exact expr

Node Placement / Rainbow Path



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 56 of 96. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper IV - F101-F145 26.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-125anditsassumptions, inputs, out

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-05-P0056"
state R -> R1
node N1
representation JP(PINK-05-P0056)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 56 of 96. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink
```

NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 57 of 96.
Chapter 27 F-126 - Rotational setpoint damping Exact expression
 $\omega_{\text{tilde}} = (2/3) * \omega_{\text{star}} + (1/3) * \omega_{\text{star}}$ Meaning.
Dampsthesdesiredrotational-wavesetpoint. Bound manifestations.MK,JO,SISTER
Gateway
stage.Reservoir/lake/re-entryreferencepathwayandsuccessor-cycleevidence
Construct Formula-specific expression Module
MJ.PBMEF.reservoir.outlet_lake_reentry_friction Namespace
MJ.PBMEF.reservoir.outlet_lake_reentry_friction.F

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_27_F126_Rotational_
reference "PINK-05-P0057"
state R -> R1
node N1
representation JP(PINK-05-P0057)
physics MK(classify, units, boundary, uncertainty)
verify JO(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 57 of 96. Chapter 27 F-126 - Rotational setpoint damping Exa
```

Node Placement / Rainbow Path



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

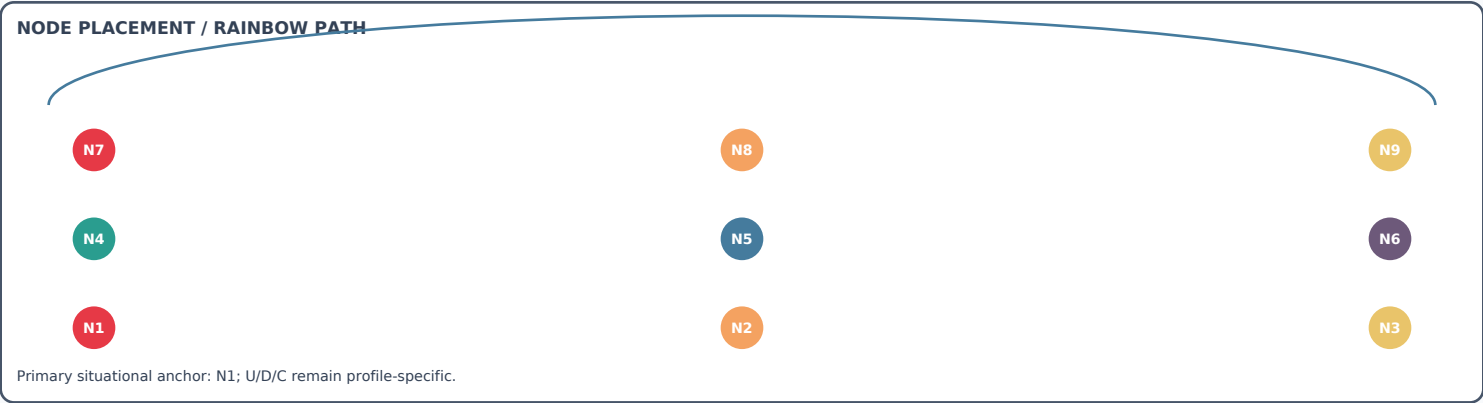
R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 58 of 96. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper IV - F101-F145 27.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-126anditsassumptions, inputs, out

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-05-P0058"
state R -> R1
node N1
representation JP(PINK-05-P0058)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 58 of 96. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 59 of 96. Chapter 28 F-127 - Rotational step cap Exact expression $\omega_{\text{next}} - \omega \leq 0.1 \cdot \omega_{\text{scale}}$ Meaning. Limit one-step rotational changes. Bound manifestations. MK, JO, ANGELS Gateway stage. Reservoir/lake/re-entry reference pathway and successor-cycle evidence Construct Formula-specific expression Module MJ.PBMEF.reservoir.outlet_lake_reentry_friction Namespace MJ.PBMEF.reservoir.outlet_lake_reentry_friction.F_127 Import MJ.PBMEF

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_28_F_127_Rotational_
reference "PINK-05-P0059"
state R -> R1
node N1
representation JP(PINK-05-P0059)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 59 of 96. Chapter 28 F-127 - Rotational step cap Exact expre
```

Node Placement / Rainbow Path



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 60 of 96. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper IV - F101-F145 28.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-127anditsassumptions, inputs, out

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-05-P0060"
state R -> R1
node N1
representation JP(PINK-05-P0060)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 60 of 96. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink
```

NODE PLACEMENT / RAINBOW PATH



Primary situational anchor: N1; U/D/C remain profile-specific.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 61 of 96.
 Chapter 29 F-128 - Outlet transfer conservation Exact expression
 $q_{\text{exit}} = q_{\text{lake_in}} + q_{\text{EVE}} + q_{\text{escape}} + r_o$ Meaning:
 Separates lake admission, EVE observation, escape, and residual. Bound
 manifestations. EVE, SISTER, MERMAID, JO Gateway
 stage. SISTER/EVE/MK/JO containment simulation evidence before MJ permit
 Construct Formula-specific expression Module
 MJ.PBMEF.reservoir.outlet_lake_reentry_friction Namespace
 MJ.PBMEF.reservoir.outlet_lake

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_29_F_128_Outlet_tran
reference "PINK-05-P0061"
state R -> R1
node N1
representation JP(PINK-05-P0061)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper Volume04 Formulas F101 F145.pdf, page 61 of 96. Chapter 29 F-128 - Outlet transfer conservation Ex
```

Node Placement / Rainbow Path



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 62 of 96. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper IV - F101-F145 29.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-128anditsassumptions, inputs, out

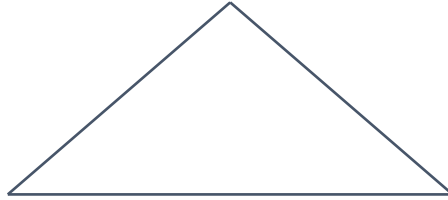
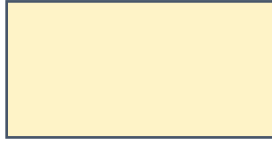
Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-05-P0062"
state R -> R1
node N1
representation JP(PINK-05-P0062)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 62 of 96. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink
```


NODE PLACEMENT / RAINBOW PATH



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 63 of 96.
Chapter 30 F-129 - Re-entry recalculation vector Exact expression
 $\Delta t_x = [\Delta t_m, \Delta t_w, \Delta t_v, \Delta t_{\rho}, \Delta t_t, \Delta t_p, \Delta t_h]$
Meaning. Declare the observed change that trigger recalculation before re-entry.
Bound manifestations. MK, JO, EVE, SISTER Gateway
stage. Reservoir/lake/re-entry reference pathway and successor-cycle evidence
Construct Formula-specific expression Module
M]. PBMEF.reservoir.outlet_lake_reentry friction

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_30_F_129_Re_entry_re
reference "PINK-05-P0063"
state R -> R1
node N1
representation JP(PINK-05-P0063)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper Volume04 Formulas F101 F145.pdf, page 63 of 96. Chapter 30 F-129 - Re-entry recalculation vector E
```

```

graph LR
    R((R)) --- R1((R1))
    R1 --- N1((N1))
    N1 --- U((U))
    U --- D((D))
    D --- C((C))
    C --- OUT((OUT))

```

R STATUS / OBSERVATION

SOURCE RULE / INTENT

PATH OF EXPRESSION

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-05-P0064"
state R -> R1
node N1
representation JP(PINK-05-P0064)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper Volume04 Formulas_F101_F145.pdf, page 64 of 96. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink
```

Node Placement / Rainbow Path

R

R1

N1

U

D

C

OUT

Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

Source Rule / Intent

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 65 of 96. Chapter 31 F-130 - Re-entry admissibility predicate Exact expression Admit_re=types&units&new_cycle&capacity&wave&MK&JO&Angels&M3&MJ Meaning. Requirescompletephysics,evidence,safety,routing,andauthoritybeforephysicalre-entry. Bound manifestations.Bangel ,JP,MK,JO,ANGELS,M3,MJ Gateway stage.Reservoir/lake/re-entryreferencepathwayandsuccessor-cycleevidence Construct Formula-specific expression Module MJ.PBMEF.reservoir.

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.Chapter_31_F_130_Re_entry_ad
reference "PINK-05-P0065"
state R -> R1
node N1
representation JP(PINK-05-P0065)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 65 of 96. Chapter 31 F-130 - Re-entry admissibility predicat
```

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

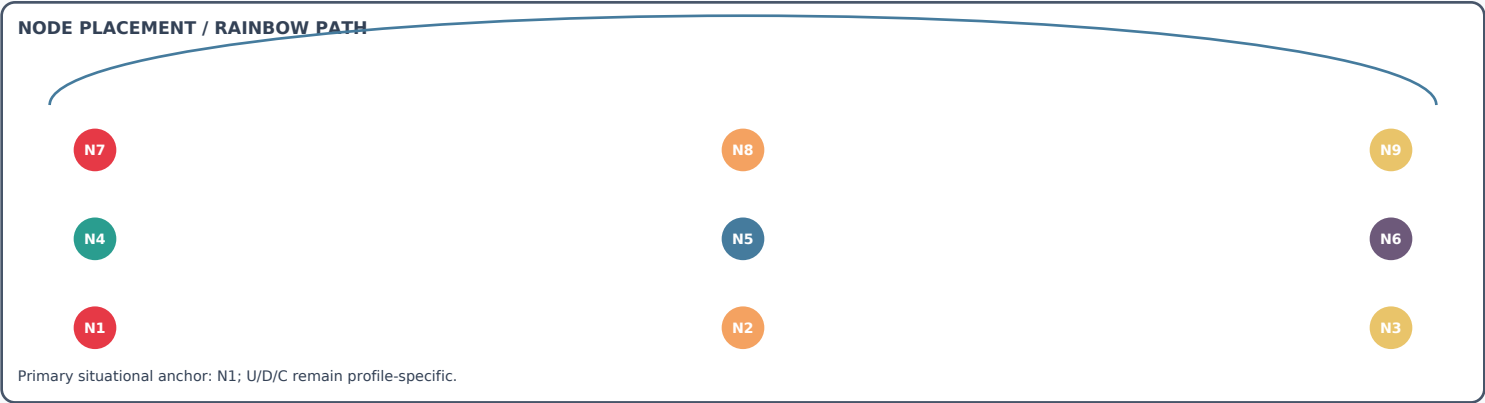
Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 66 of 96. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper IV - F101-F145 31.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-130anditsassumptions, inputs, out

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-05-P0066"
state R -> R1
node N1
representation JP(PINK-05-P0066)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 66 of 96. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 67 of 96. Chapter 32 F-131 - Uncertainty-aware Pearl refer- ence clearance Exact expression $\min_s(\gamma_{out}(s)-c_P -R_P, \text{sim}) \geq c_{min}+U_{path}$ Meaning. Path remains outside then nonphysical Pearl simulation reference circle after uncertainty is included. Bound manifestations. PEARL, MK, JO Gateway stage. Sister/EVE/MK/JO containment or simulation evidence before MJ permit Construct Formula-specific expression Module MJ.PBMEF.reservoir.outlet_lake_r

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_32_F_131_Uncertainty
reference "PINK-05-P0067"
state R -> R1
node N1
representation JP(PINK-05-P0067)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 67 of 96. Chapter 32 F-131 - Uncertainty-aware Pearl refer-
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 68 of 96. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper IV - F101-F145 } 32.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-131anditsassumptions, inputs, o

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-05-P0068"
state R -> R1
node N1
representation JP(PINK-05-P0068)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 68 of 96. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink
```

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 69 of 96. Chapter 33 F-132 - Outward angular-gap predicate Exact expression $\text{abs}(\text{wrap}(\alpha_{\text{out}} - \alpha_{\text{gap}})) \leq \Delta \alpha_{\text{gap}} / 2$ Meaning. Outlet direction remains within the declared outward-facing gap. Bound manifestations, JP, MK, JO Gateway stage. Reservoir/lake/re-entry reference pathway and successor-cycle evidence Construct Formula-specific expression Module MJ.PBMEF.reservoir.outlet_lake_reentry_friction Namespace MJ.PBMEF.reservoir.out

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.Chapter_33_F_132_Outward_ang
reference "PINK-05-P0069"
state R -> R1
node N1
representation JP(PINK-05-P0069)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 69 of 96. Chapter 33 F-132 - Outward angular-gap predicate E
```

Node Placement / Rainbow Path



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

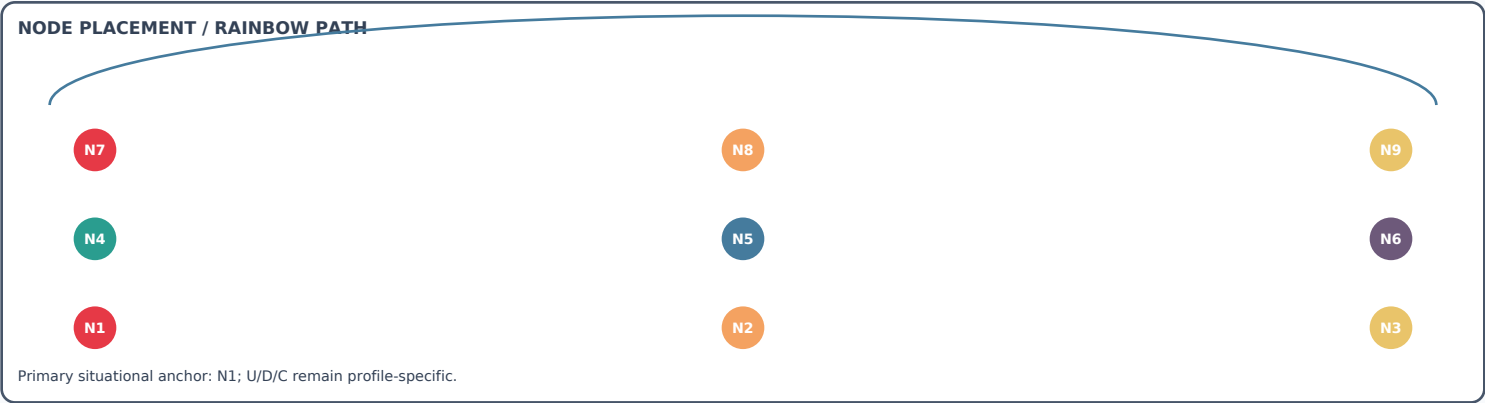
Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 70 of 96. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper IV - F101-F145 33.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-132anditsassumptions, inputs, out

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-05-P0070"
state R -> R1
node N1
representation JP(PINK-05-P0070)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 70 of 96. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink
```

R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 71 of 96. Chapter 34 F-133 - Available outlet pressure Exact expression $\Delta p_{\text{available}} = p_{\text{containment}} - p_{\text{lake}} + \rho \cdot g \cdot (z_{\text{out}} - z_{\text{lake}})$ Meaning. Pressure and elevation state available to drive a reference outlet flow. Bound manifestations. MK, JO, SISTER Gateway stage. Sister/EVE/MK/JO containment or simulation evidence before MJ permit Construct Formula-specific expression Module MJ.PBMEF.reservoir.outlet_lake_reentry_friction Namespace MJ.PBMEF.rese

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_34_F_133_Available_o
reference "PINK-05-P0071"
state R -> R1
node N1
representation JP(PINK-05-P0071)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 71 of 96. Chapter 34 F-133 - Available outlet pressure Exact
```

Node Placement / Rainbow Path



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 72 of 96. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper IV - F101-F145 34.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-133anditsassumptions, inputs, out

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-05-P0072"
state R -> R1
node N1
representation JP(PINK-05-P0072)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 72 of 96. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink
```

NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 73 of 96. Chapter 35 F-134 - Outlet pressure margin Exact expression
Delta_p_margin=Delta_p_available-Delta_p_loss-U_Delta_p Meaning. Conservativepressuremarginafterlossesanduncertainty. Bound manifestations.MK,JO Gateway stage.Sister/EVE/MK/JOcontainmentorsimulationevidencebeforeMJpermit Construct Formula-specific expression Module MJ.PBMEF.reservoir.outlet_lake_reentry_friction Namespace MJ.PBMEF.reservoir.outlet_lake_reentr

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_35_F_134_Outlet_pres
reference "PINK-05-P0073"
state R -> R1
node N1
representation JP(PINK-05-P0073)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 73 of 96. Chapter 35 F-134 - Outlet pressure margin Exact ex
```

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

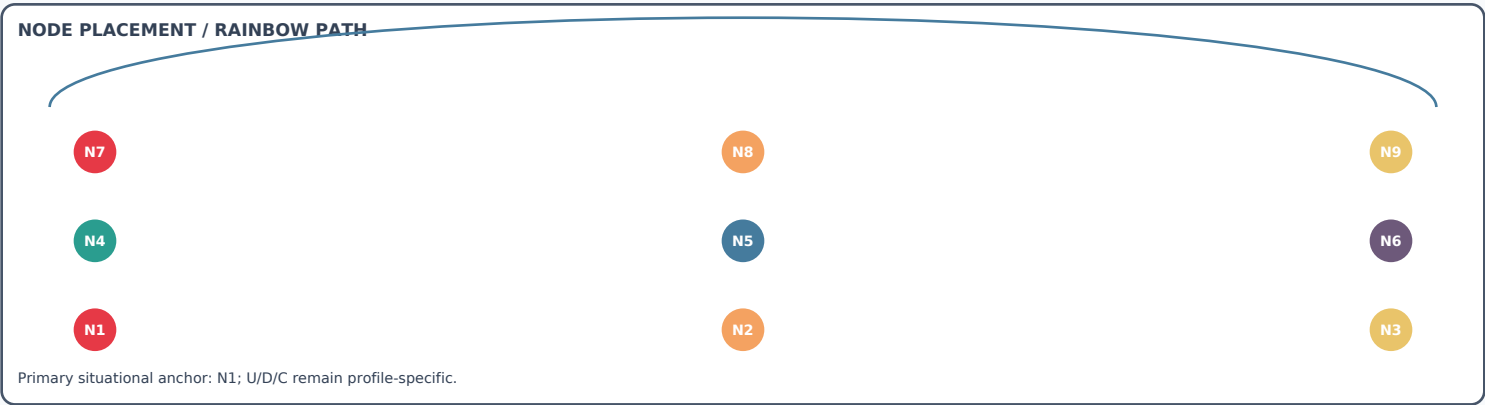
R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 74 of 96. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper IV - F101-F145 35.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-134anditsassumptions, inputs, out

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-05-P0074"
state R -> R1
node N1
representation JP(PINK-05-P0074)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 74 of 96. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 75 of 96. Chapter 36 F-135 - Minimum outlet grade Exact expression $\alpha_{\min} = \text{atan}(\max(0, \Delta p_{\text{loss}} + U \Delta p - (p_{\text{containment}} - p_{\text{lake}}))) / (\rho \cdot g \cdot L_{\text{path}})$ Meaning. Minimum modeled grade needed to overcome pressure deficit under declared assumptions. Bound manifestations. JP, MK, JO Gateway stage. Sister/EVE/MK/JO containment or simulation evidence before MJ permit Construct Formula-specific expression Module MJ.PBMEF.reservoir.outlet_lake_reentry_fric

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_36_F_135_Minimum_outlet_grade
reference "PINK-05-P0075"
state R -> R1
node N1
representation JP(PINK-05-P0075)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 75 of 96. Chapter 36 F-135 - Minimum outlet grade Exact expression
```

Node Placement / Rainbow Path



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 76 of 96. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper IV - F101-F145 36.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-135anditsassumptions, inputs, out

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-05-P0076"
state R -> R1
node N1
representation JP(PINK-05-P0076)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 76 of 96. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink
```

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

Source Rule / Intent

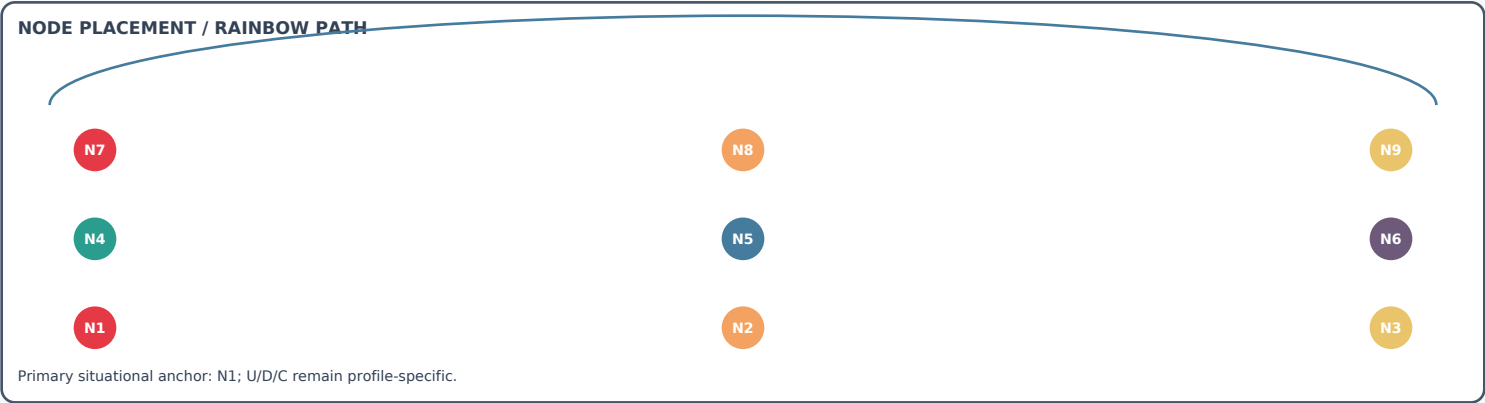
Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 77 of 96. Chapter 37 F-136 - Selected positive outlet grade Exact expression $\alpha_{\text{selected}} = \alpha_{\text{min}} + \Delta \alpha$; $\Delta \alpha > 0$ Meaning. Slight positive increase above the modeled minimum; no universal value is asserted. Bound manifestations JP, MK, JO, MJ Gateway stage. Sister/EVE/MK/JO contain mentors simulation evidence before MJ permit Construct Formula-specific expression Module MJ.PBMEF.reservoir.outlet_lake_reentry_friction Namespace MJ.PBME

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

module MJ.Rainbow.Chapter_37_F_136_Selected_po
reference "PINK-05-P0077"
state R -> R1
node N1
representation JP(PINK-05-P0077)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 77 of 96. Chapter 37 F-136 - Selected positive outlet grade



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 78 of 96. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper IV - F101-F145 37.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-136anditsassumptions, inputs, out

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-05-P0078"
state R -> R1
node N1
representation JP(PINK-05-P0078)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 78 of 96. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink
```

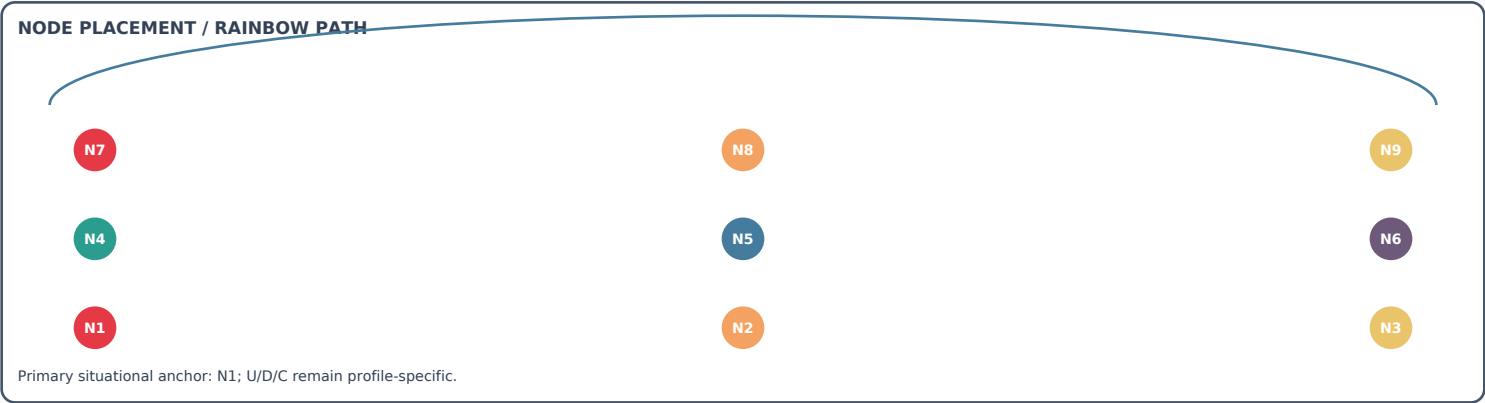



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 79 of 96. Chapter 38 F-137 - Incompressible reference outlet flow Exact expression $Q_{ref}=C_dA_{out}\sqrt{2\max(0,\Delta p_{available}-\Delta p_{loss})/\rho}$ Meaning. Conditionalreferenceflowunderevidencedincompressibleassumptions. Bound manifestations.MK,JO Gateway stage.Sister/EVE/MK/JOcontainmentorsimulationevidencebeforeMJpermit Construct Formula-specific expression Module MJ.PBMEF.reservoir.outlet_lake_reentry_friction Namespace M

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_38_F_137_Incompressi
reference "PINK-05-P0079"
state R -> R1
node N1
representation JP(PINK-05-P0079)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 79 of 96. Chapter 38 F-137 - Incompressible reference outlet
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 80 of 96. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper IV - F101-F145 38.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-137anditsassumptions, inputs, out

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-05-P0080"
state R -> R1
node N1
representation JP(PINK-05-P0080)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 80 of 96. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink
```

NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 81 of 96.
Chapter 39 F-138 - Mean outlet velocity Exact expression $U_{out}=Q_{ref}/A_{out}$
Meaning. Conditional mean velocity for the declared outlet area. Bound
manifestations.MK,JO Gateway
stage.Sister/EVE/MK/JO containment or simulation evidence before MJ permit
Construct Formula-specific expression Module
MJ.PBMEF.reservoir.outlet_lake_reentry_friction Namespace
MJ.PBMEF.reservoir.outlet_lake_reentry_friction.F_138 Import
MJ.PBMEF.Manifest,MJ

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

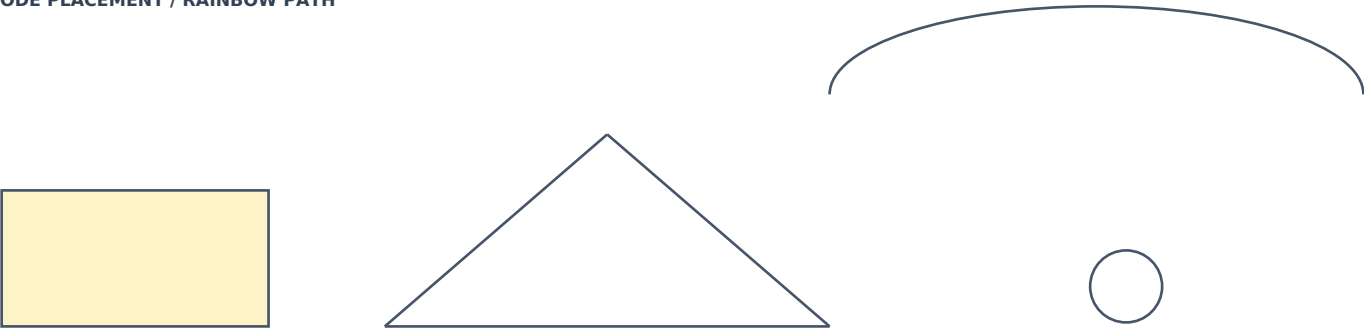
CODE / MATH / PROCESS REPRESENTATION

```

module MJ.Rainbow.Chapter_39_F_138_Mean_outlet
reference "PINK-05-P0081"
state R -> R1
node N1
representation JP(PINK-05-P0081)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper Volume04 Formulas F101 F145.pdf, page 81 of 96. Chapter 39 F-138 - Mean outlet velocity Exact expr

```

Node Placement / Rainbow Path



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 82 of 96. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper IV - F101-F145 39.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-138anditsassumptions, inputs, out

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-05-P0082"
state R -> R1
node N1
representation JP(PINK-05-P0082)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 82 of 96. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink

Node Placement / Rainbow Path



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 84 of 96. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper IV - F101-F145 40.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-139anditsassumptions, inputs, out

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-05-P0084"
state R -> R1
node N1
representation JP(PINK-05-P0084)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 84 of 96. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink
```

NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

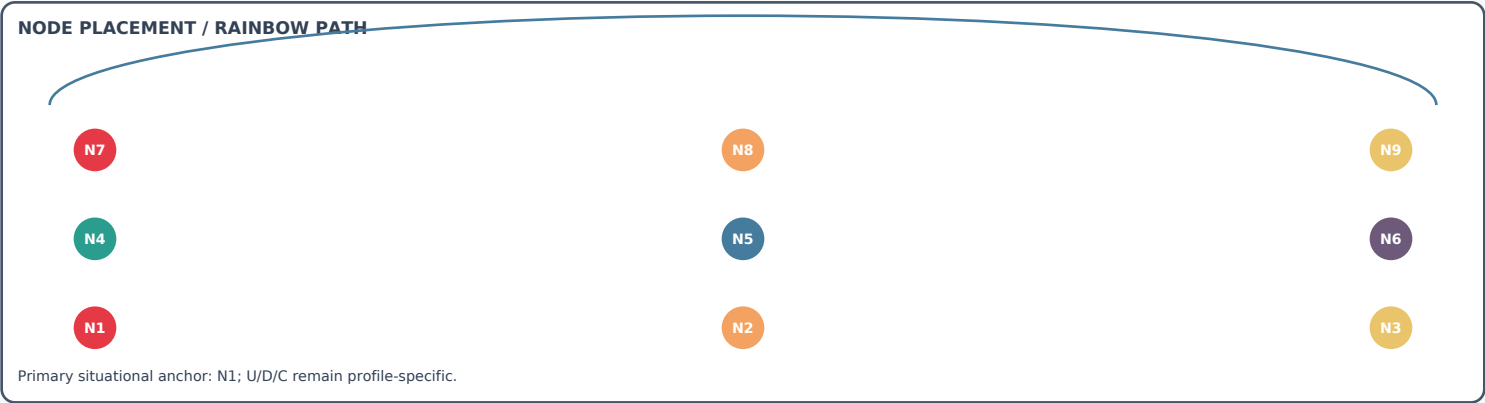
Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 85 of 96.
Chapter 41 F-140 - Wave amplitude ratio Exact expression
 $\epsilon = a_{\text{wave}}/h_L$ Meaning.
Dimensionless small-amplitude observation ratio. Bound
manifestations. MK, JO, EVE Gateway
stage. Sister/EVE/MK/JO containment or simulation evidence before MJ permit
Construct Formula-specific expression Module
MJ.PBMEF.reservoir.outlet_lake_reentry_friction.Namespace
MJ.PBMEF.reservoir.outlet_lake_reentry_friction.F_140 Import MJ.PBMEF.Manifes

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_41_F_140_Wave_amplit
reference "PINK-05-P0085"
state R -> R1
node N1
representation JP(PINK-05-P0085)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper Volume04 Formulas F101 F145.pdf, page 85 of 96. Chapter 41 F-140 - Wave amplitude ratio Exact expr
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 86 of 96. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper IV - F101-F145 41.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-140anditsassumptions, inputs, out

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-05-P0086"
state R -> R1
node N1
representation JP(PINK-05-P0086)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 86 of 96. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink
```

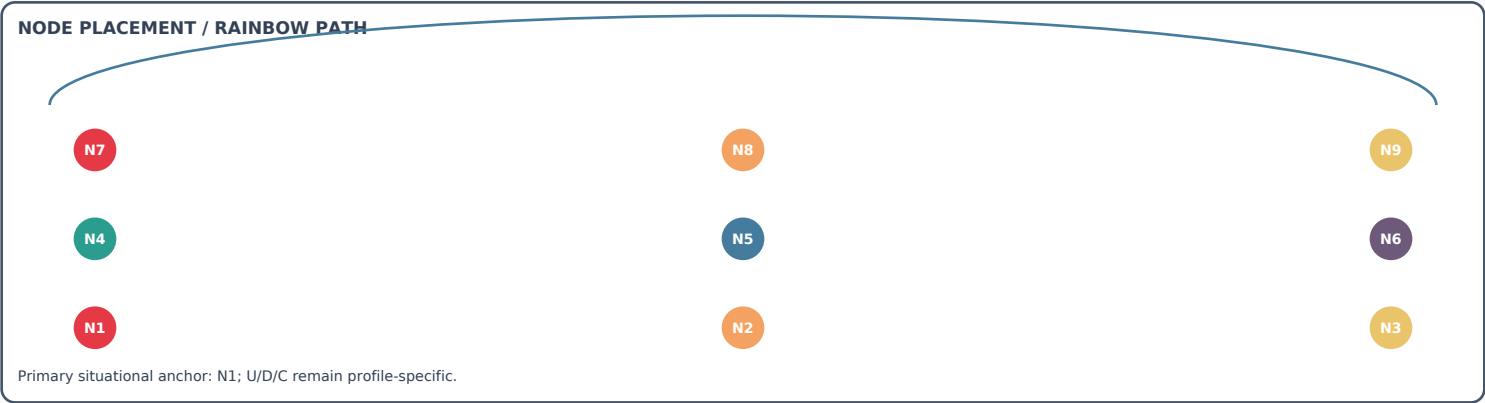



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 87 of 96. Chapter 42 F-141 - Small-wave observation gate Exact expression $\text{WaveGate} = (\text{Fr} \leq \text{Fr}_{\text{max}}) \& (\text{epsilon}_a \leq \text{epsilon}_{a,\text{max}}) \& (\text{We} \leq \text{We}_{\text{max}} \text{ when applicable})$ Meaning. Reference gate for bounded low-amplitude observations; not proof of waves suppression. Bound manifestations. MK, JO, ANGELS Gateway stage. Sister/EVE/MK/JO containment or simulation evidence before MJ permit Construct Formula-specific expression Module MJ.PBMEF.reservoir.outlet_lake_reentry

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_42_F_141_Small_wave_  
reference "PINK-05-P0087"  
state R -> R1  
node N1  
representation JP(PINK-05-P0087)  
physics MK(classify, units, boundary, uncertainty)  
verify J0(types, evidence, receipts)  
if all_required_gates == PASS:  
MJ.permit -> R2 -> bounded_output  
else:  
HOLD | FAIL_TECHNICAL | DENY  
# Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 87 of 96. Chapter 42 F-141 - Small-wave observation gate Exa
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 88 of 96. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper IV - F101-F145 42.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-141anditsassumptions, inputs, out

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-05-P0088"
state R -> R1
node N1
representation JP(PINK-05-P0088)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 88 of 96. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink
```

Node Placement / Rainbow Path



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

P preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 89 of 96. Chapter 43 F-142 - Discrete reservoir inventory Exact expression $q_{L,t+1}=q_{L,t}+q_{out}-q_{return}-q_{drain}-q_{escape}-r_L$ Meaning. Receipteddiscreteupdatefortheseparatelake/buffercontrolvolume. Bound manifestations.EVE,M3,MERMAID,JO Gateway stage.Sister/EVE/MK/JOcontainmentorsimulationevidencebeforeMJpermit Construct Formula-specific expression Module MJ.PBMEF.reservoir.outlet_lake_reentry_friction Namespace MJ.PBMEF.reserv

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

module MJ.Rainbow.Chapter_43_F_142_Discrete_re
reference "PINK-05-P0089"
state R -> R1
node N1
representation JP(PINK-05-P0089)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 89 of 96. Chapter 43 F-142 - Discrete reservoir inventory Ex

Node Placement / Rainbow Path



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

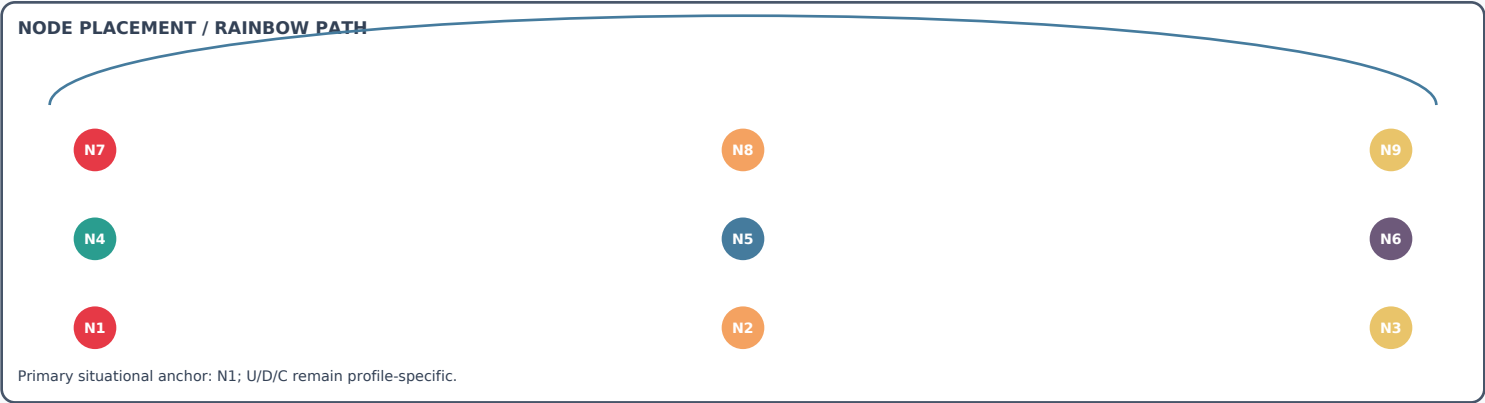
Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 90 of 96. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper IV - F101-F145 43.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-142anditsassumptions, inputs, out

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-05-P0090"
state R -> R1
node N1
representation JP(PINK-05-P0090)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 90 of 96. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink
```



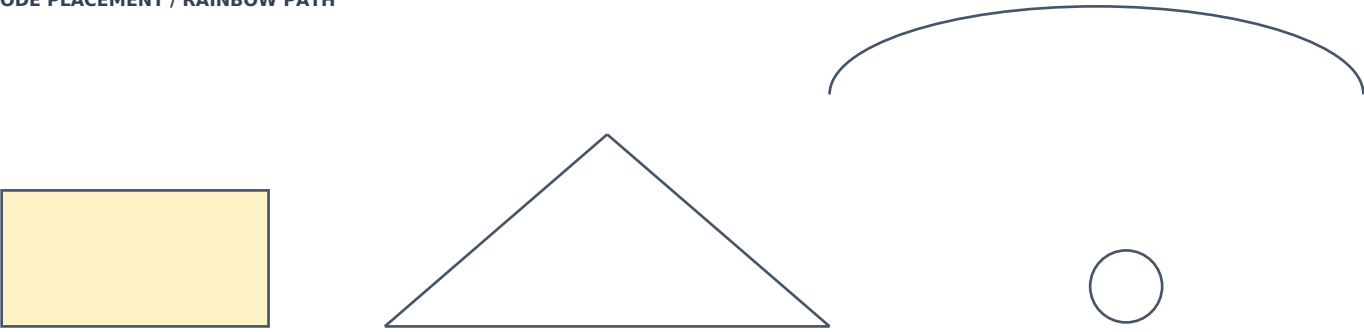
R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 91 of 96. Chapter 44 F-143 - Vector reservoir headroom Exact expression H_L,k=C_L,k-q_L,k Meaning. Headroomremainsseparateforeveryresourcedimension. Bound manifestations.SISTER,EVE,JO Gateway stage.Sister/EVE/MK/JOcontainmentorsimulationevidencebeforeMJpermit Construct Formula-specific expression Module MJ.PBMEF.reservoir.outlet_lake_reentry_friction Namespace MJ.PBMEF.reservoir.outlet_lake_reentry_friction.F_143 Import MJ.PBM

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_44_F_143_Vector_rese
reference "PINK-05-P0091"
state R -> R1
node N1
representation JP(PINK-05-P0091)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 91 of 96. Chapter 44 F-143 - Vector reservoir headroom Exact
```

Node Placement / Rainbow Path



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 92 of 96. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper IV - F101-F145 44.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-143anditsassumptions, inputs, out

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-05-P0092"
state R -> R1
node N1
representation JP(PINK-05-P0092)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 92 of 96. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink
```

```

graph LR
    R((R)) --- R1((R1))
    R1 --- N1((N1))
    N1 --- U((U))
    U --- D((D))
    D --- C((C))
    C --- OUT((OUT))
  
```

R STATUS / OBSERVATION

SOURCE RULE / INTENT

PATH OF EXPRESSION

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_45_F144_Vector_rese
reference "PINK-05-P0093"
state R -> R1
node N1
representation JP(PINK-05-P0093)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper Volume04 Formulas_F101_F145.pdf, page 93 of 96. Chapter 45 F-144 - Vector reservoir admission Exac
```

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 94 of 96. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper IV - F101-F145 45.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-144anditsassumptions, inputs, out

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-05-P0094"
state R -> R1
node N1
representation JP(PINK-05-P0094)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 94 of 96. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink
```

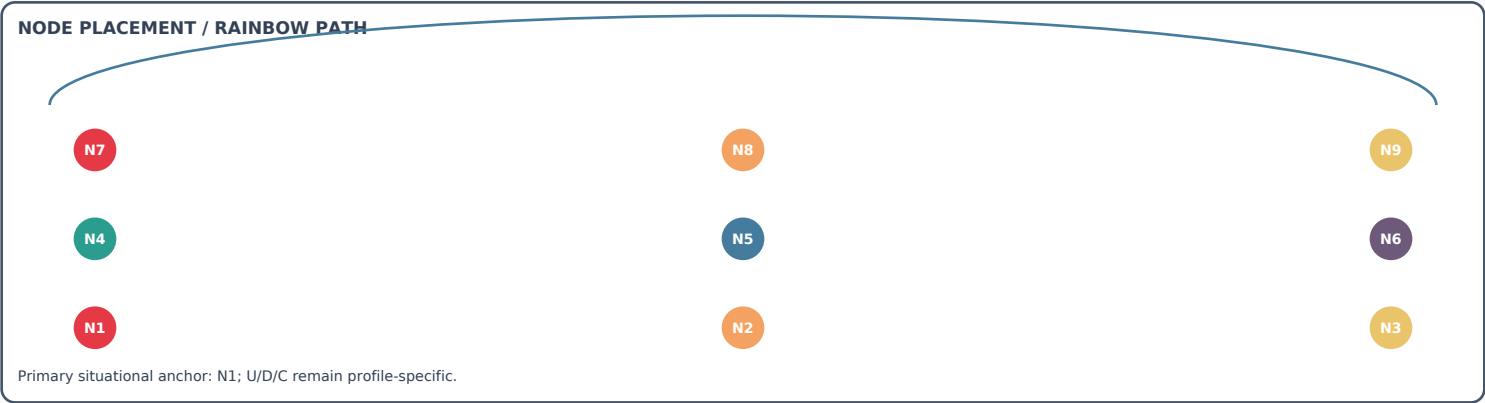



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 95 of 96. Chapter 46 F-145 - No same-cycle feedback predi- cate Exact expression ReentryValid=(cycle_reentry=cycle_exit+1)&no_uncleared_generation_reuse Meaning. Re-entrystartsanewreceiptedcycleandcannotfeedthesameactivegeneration. Bound manifestations.M3,JO,ANGELS,MJ Gateway stage.Mermaid/ShivafinancialanalysisandreconciliationbeforeMJdecision Construct Formula-specific expression Module MJ.PBMEF.reservoir.outlet_lake_reentry

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_46_F_145_No_same_cyc
reference "PINK-05-P0095"
state R -> R1
node N1
representation JP(PINK-05-P0095)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 95 of 96. Chapter 46 F-145 - No same-cycle feedback predi- c
```



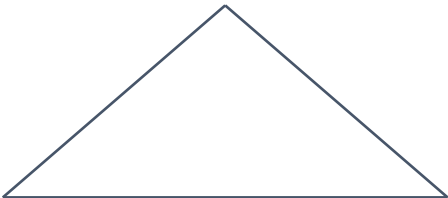
R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 96 of 96. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper IV - F101-F145 46.2 Lifecycle from request to final output 1. R/R0: receivefounderoruserpurposeandexactcommandscope. 2. Bangel.begin: parsemodules, namespaces, declarations, literals, types, constraints, and directives. 3. Elsa: recoversemanticpurpose, variablemeaning, and ambiguity without creating authority. 4. JP: createthecanonicalCAPOforF-145anditsassumptions, inputs, out

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-05-P0096"
state R -> R1
node N1
representation JP(PINK-05-P0096)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume04_Formulas_F101_F145.pdf, page 96 of 96. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink
```

NODE PLACEMENT / RAINBOW PATH



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source PinkPaper_Volume05_Family_and_Objects.pdf, page 1 of 47.
MJ-PBMEFPinkPaper-VolumeV
FamilyManifestationsandGovernedObjectGatewayBindings
MichaelBangel-AuthorandArchitect August2026

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.MJ_PBMEFPinkPaper_VolumeV_Fa
reference "PINK-06-P0001"
state R -> R1
node N1
representation JP(PINK-06-P0001)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume05_Family_and_Objects.pdf, page 1 of 47. MJ-PBMEFPinkPaper-VolumeV FamilyManifestationsandGo
```


Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source PinkPaper_Volume05_Family_and_Objects.pdf, page 3 of 47. PRIVA TE PRE-DA Y -0 - UNSIGNED REVIEW CANDIDA TE Pink Paper V - F amily / Objects 17Belle -BELLE 20 17.1Command-life-cyclerole20 18Lecanto -LECANTO 21 18.1Command-life-cyclerole21 19Moana -MOANA 22 19.1Command-life-cyclerole

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVA_TE_PRE_DA_Y_0_UNSIGNED
reference "PINK-06-P0003"
state R -> R1
node N9
representation JP(PINK-06-P0003)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume05_Family_and_Objects.pdf, page 3 of 47. PRIVA TE PRE-DA Y -0 - UNSIGNED REVIEW CANDIDA TE P
```



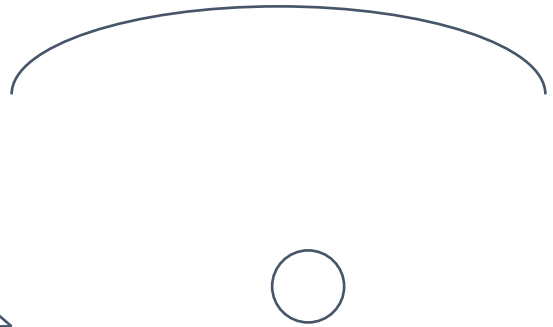
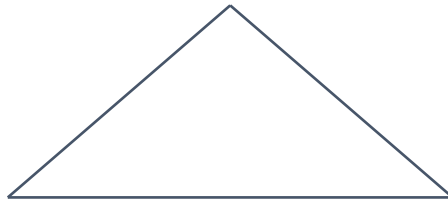
R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume05_Family_and_Objects.pdf, page 4 of 47. PRIVA TE PRE-DA Y -0 - UNSIGNED REVIEW CANDIDA TE Pink Paper V - F amily / Objects Document control Project MJ:PhysicsBasedMeasurementEngineeringFramework Project ID MJ-PBMEF-001 Source build MJ-PBMEF-DAY0-R5-REVIEW-CANDIDATE Document ID MJ-PBMEF-PINK-PAPER-001/VOL-V Author and architect MichaelBangel Status FOUNDER_REVIEW_CANDIDATE_PENDING_FREEZE Scope Allfamilymanifestationsandgovernedobjectsingatewayandlife- cycle

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVA_TE_PRE_DA_Y_0_UNSIGNED
reference "PINK-06-P0004"
state R -> R1
node N1
representation JP(PINK-06-P0004)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume05_Family_and_Objects.pdf, page 4 of 47. PRIVA TE PRE-DA Y -0 - UNSIGNED REVIEW CANDIDA TE P
```


NODE PLACEMENT / RAINBOW PATH



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source PinkPaper_Volume05_Family_and_Objects.pdf, page 6 of 47.
Chapter 2 MJ -MJ Construct Formula-specific expression Module
MJ.PBMEF.Family.MJ Namespace MJ.PBMEF.Family.MJ.Day0 Import
MJ.PBMEF.Manifest,MJ.PBMEF.Authority,MJ.PBMEF.Formulas Declaration
participantMJ Definition
Projectroot,founder-governedauthorityandfinalboundedpermitdecision.
Capability boundedpermit,hold,deny,projectstate Participant MJ Relationship
Incoming: MICHAEL_BANGEL;outgoing: Bangel Function Projectroot

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_2_MJ_MJ_Construct_Fo
reference "PINK-06-P0006"
state R -> R1
node N1
representation JP(PINK-06-P0006)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper Volume05 Family and Objects.pdf, page 6 of 47. Chapter 2 MJ -MJ Construct Formula-specific express
```




R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume05_Family_and_Objects.pdf, page 7 of 47. Chapter 3 Bangel -Bangel Construct Formula-specific expression Module MJ.PBMEF.Family.Bangel Namespace MJ.PBMEF.Family.Bangel .Day0 Import MJ.PBMEF.Manifest,MJ.PBMEF.Authority,MJ.PBMEF.Formulas Declaration participantBangel Definition Human-facinggovernedlanguage thatpreservespurposeandcommandstructure. Capability typedcommandenvelope,sourcerepresentation,BangelSheetsource,if/how/thenoperational Participant Denal

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_3_Bangel _Bangel _Cons
reference "PINK-06-P0007"
state R -> R1
node N1
representation JP(PINK-06-P0007)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume05_Family_and_Objects.pdf, page 7 of 47. Chapter 3 Bangel -Bangel Construct Formula-specific
```

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

Source Rule / Intent

Pink source PinkPaper_Volume05_Family_and_Objects.pdf, page 8 of 47. Chapter 4 Elsa -ELSA Construct Formula-specific expression Module MJ.PBMEF.Family.ELSA Namespace MJ.PBMEF.Family.ELSA.Day0 Import MJ.PBMEF.Manifest,MJ.PBMEF.Authority,MJ.PBMEF.Formulas Declaration participantELSA Definition Deterministicsemanticrecoveryandpurpose-preservationlayer. Capability semanticenvelope,ambiguityhold Participant Elsa Relationship Incoming: Bangel ;outgoing: JP Function Deterministicsemanticrecov

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

module MJ.Rainbow.Chapter_4_Elsa_ELSA_Construc
reference "PINK-06-P0008"
state R -> R1
node N1
representation JP(PINK-06-P0008)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
Pink source PinkPaper_Volume05_Family_and_Objects.pdf, page 8 of 47. Chapter 4 Elsa -ELSA Construct Formula-specific exp

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

Source Rule / Intent

Pink source PinkPaper_Volume05_Family_and_Objects.pdf, page 9 of 47. Chapter 5 JP -JP Construct Formula-specific expression Module MJ.PBMEF.Family.JP Namespace MJ.PBMEF.Family.JP.Day0 Import MJ.PBMEF.Manifest,MJ.PBMEF.Authority,MJ.PBMEF.Formulas Declaration participantJP Definition Canonicalmathematical,algorithmic,topology,CAPO,andarchitecturerepresentation. Capability mathCAPO,algorithmCAPO,architectureCAPO,PearlCAPO,BangelSheetdependencyCAPO,JP Participant JP Rel

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

module MJ.Rainbow.Chapter_5_JP_JP_Construct_Fo
reference "PINK-06-P0009"
state R -> R1
node N1
representation JP(PINK-06-P0009)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
Pink source PinkPaper_Volume05_Family_and_Objects.pdf, page 9 of 47. Chapter 5 JP -JP Construct Formula-specific express



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume05_Family_and_Objects.pdf, page 10 of 47. Chapter 6 Mika / MK -MK Construct Formula-specific expression Module MJ.PBMEF.Family.MK Namespace MJ.PBMEF.Family.MK.Day0 Import MJ.PBMEF.Manifest,MJ.PBMEF.Authority,MJ.PBMEF.Formulas Declaration participantMK Definition PhysicsModulatorSystemfordimensional,conservation,boundary,scale,andevidencerepresentation Capability physicsCAPO,not-applicablereceipt,hold,technicalfail,Pearlphysicsreceipt,spreadsheetresources

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

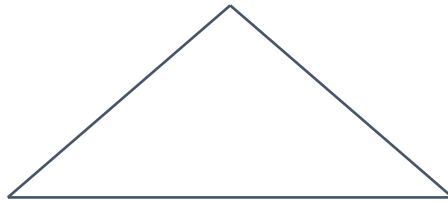
CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_6_Mika_MK_MK_Constru
reference "PINK-06-P0010"
state R -> R1
node N1
representation JP(PINK-06-P0010)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume05_Family_and_Objects.pdf, page 10 of 47. Chapter 6 Mika / MK -MK Construct Formula-specific
```

NODE PLACEMENT / RAINBOW PATH



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.



R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source PinkPaper_Volume05_Family_and_Objects.pdf, page 11 of 47.
Chapter 7 JO -JO Construct Formula-specific expression Module
MJ.PBMEF.Family.JO Namespace MJ.PBMEF.Family.JO.Day0 Import
MJ.PBMEF.Manifest,MJ.PBMEF.Authority,MJ.PBMEF.Formulas Declaration
participantJO Definition
Deterministicctype,unit,proof,validation,runtime,andevidenceengine. Capability
proofreceipt,runtimeresult,hold,deny,sheetrevisionreceipt,Pearlbalancereceipt
Participant JO Relationship Incoming: MK;outgoing:

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_7_J0_J0_Construct_Fo
reference "PINK-06-P0011"
state R -> R1
node N1
representation JP(PINK-06-P0011)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper Volume05 Family and Objects.pdf, page 11 of 47. Chapter 7 J0 -J0 Construct Formula-specific expres
```

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source PinkPaper_Volume05_Family_and_Objects.pdf, page 12 of 47. Chapter 8 MJOS -MJOS Construct Formula-specific expression Module MJ.PBMEF.Family.MJOS Namespace MJ.PBMEF.Family.MJOS.Day0 Import MJ.PBMEF.Manifest,MJ.PBMEF.Authority,MJ.PBMEF.Formulas Declaration participantMJOS Definition Operating-systemandinfrastructuresubstrateinsideMJ. Capability resourceservice,infrastructureevidence Participant MJOS Relationship Incoming: JO_EXECUTION;outgoing: receipttoMJ/JO Function Operati

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> Mj bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_8_MJOS_MJOS_Construc
reference "PINK-06-P0012"
state R -> R1
node N1
representation JP(PINK-06-P0012)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume05_Family_and_Objects.pdf, page 12 of 47. Chapter 8 MJOS -MJOS Construct Formula-specific ex
```

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

Source Rule / Intent

Pink source PinkPaper_Volume05_Family_and_Objects.pdf, page 13 of 47. Chapter 9 Angels -ANGELS Construct Formula-specific expression Module MJ.PBMEF.Family.ANGELS Namespace MJ.PBMEF.Family.ANGELS.Day0 Import MJ.PBMEF.Manifest,MJ.PBMEF.Authority,MJ.PBMEF.Formulas Declaration participantANGELS Definition Domain-specificobservation,telemetry,hold,denial,andcorrective-commandfamily Capability safetyreceipt,hold,deny,correctionrequest Participant Angels Relationship Incoming: JO;outgoing:

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

module MJ.Rainbow.Chapter_9_Angels_ANGELS_Cons
reference "PINK-06-P0013"
state R -> R1
node N1
representation JP(PINK-06-P0013)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
Pink source PinkPaper_Volume05_Family_and_Objects.pdf, page 13 of 47. Chapter 9 Angels -ANGELS Construct Formula-specifi

NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source PinkPaper_Volume05_Family_and_Objects.pdf, page 14 of 47. Chapter 10 Bellatrix -BELLATRIX Construct Formula-specific expression Module MJ.PBMEF.Family.BELLATRIX Namespace MJ.PBMEF.Family.BELLATRIX.Day0 Import MJ.PBMEF.Manifest,MJ.PBMEF.Authority,MJ.PBMEF.Formulas Declaration participantBELLATRIX Definition Independentdefense,challenge,quarantine,hostile-deviationanalysis,anddenial. Capability deny,quarantine,challengerreceipt Participant Bellatrix Relationship Incoming: JO;o

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_10_Bellatrix_BELLATR
reference "PINK-06-P0014"
state R -> R1
node N1
representation JP(PINK-06-P0014)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume05_Family_and_Objects.pdf, page 14 of 47. Chapter 10 Bellatrix -BELLATRIX Construct Formula-
```


Node Placement / Rainbow Path

R

R1

N1

U

D

C

OUT

Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source PinkPaper_Volume05_Family_and_Objects.pdf, page 15 of 47. Chapter 11 Sister -SISTER Construct Formula-specific expression Module MJ.PBMEF.Family.SISTER Namespace MJ.PBMEF.Family.SISTER.Day0 Import MJ.PBMEF.Manifest,MJ.PBMEF.Authority,MJ.PBMEF.Formulas Declaration participantSISTER Definition Predictivedigitaltwin,preallocationevidence,anomalydetection,umbrellacollection,andcano Capability forecast,containmentrequest,digital-twinreceipt,physic

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.Chapter_11_Sister_SISTER_Con
reference "PINK-06-P0015"
state R -> R1
node N1
representation JP(PINK-06-P0015)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume05_Family_and_Objects.pdf, page 15 of 47. Chapter 11 Sister -SISTER Construct Formula-specif
```

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

Source Rule / Intent

Pink source PinkPaper_Volume05_Family_and_Objects.pdf, page 16 of 47. Chapter 12 EVE -EVE Construct Formula-specific expression Module MJ.PBMEF.Family.EVE Namespace MJ.PBMEF.Family.EVE.Day0 Import MJ.PBMEF.Manifest,MJ.PBMEF.Authority,MJ.PBMEF.Formulas Declaration participantEVE Definition Variance,evaporativeeffect,screenshot,leakage,smoke-likeegress,andboundary-account Capability EVEobservation,capture/egressledger,hold,Pearlescape/captureobservation Participant EVE Rel

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

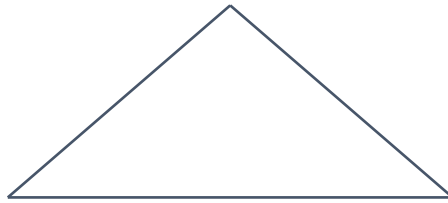
CODE / MATH / PROCESS REPRESENTATION

module MJ.Rainbow.Chapter_12_EVE_EVE_Construct
reference "PINK-06-P0016"
state R -> R1
node N1
representation JP(PINK-06-P0016)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
Pink source PinkPaper_Volume05_Family_and_Objects.pdf, page 16 of 47. Chapter 12 EVE -EVE Construct Formula-specific exp

NODE PLACEMENT / RAINBOW PATH



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.



R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source PinkPaper_Volume05_Family_and_Objects.pdf, page 17 of 47.
Chapter 13 Mary / M3 -M3 Construct Formula-specific expression Module
MJ.PBMEF.Family.M3 Namespace MJ.PBMEF.Family.M3.Day0 Import
MJ.PBMEF.Manifest,MJ.PBMEF.Authority,MJ.PBMEF.Formulas Declaration
participantM3 Definition
Boundedrouting,APIgateway,loadbalancing,connectionpooling,andallocationstewardship.
Capability
routerreceipt,allocationleaseuse,returnreceipt,Pearlallocation/transferreceipt,BangleSheet

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_13_Mary_M3_M3_Constr
reference "PINK-06-P0017"
state R -> R1
node N1
representation JP(PINK-06-P0017)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper Volume05 Family and Objects.pdf, page 17 of 47. Chapter 13 Mary / M3 -M3 Construct Formula-specific
```

NODE PLACEMENT / RAINBOW PATH

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source PinkPaper_Volume05_Family_and_Objects.pdf, page 18 of 47. Chapter 14 Mermaid -MERMAID Construct Formula-specific expression Module MJ.PBMEF.Family.MERMAID Namespace MJ.PBMEF.Family.MERMAID.Day0 Import MJ.PBMEF.Manifest,MJ.PBMEF.Authority,MJ.PBMEF.Formulas Declaration participantMERMAID Definition Accounting,reconciliation,exposure,custodyevidence,statements,taxlots,andfinancialconsolidation Capability account,balance,exposure,reconciliationreceipt Participant Mermaid Relatio

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_14_Mermaid_MERMAID_C
reference "PINK-06-P0018"
state R -> R1
node N1
representation JP(PINK-06-P0018)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume05_Family_and_Objects.pdf, page 18 of 47. Chapter 14 Mermaid -MERMAID Construct Formula-spec
```

Node Placement / Rainbow Path



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume05_Family_and_Objects.pdf, page 19 of 47. Chapter 15 Shiva -SHIVA Construct Formula-specific expression Module MJ.PBMEF.Family.SHIVA Namespace MJ.PBMEF.Family.SHIVA.Day0 Import MJ.PBMEF.Manifest,MJ.PBMEF.Authority,MJ.PBMEF.Formulas Declaration participantSHIVA Definition Finance,money,treasury,liquidity,capital-jobclassification,risk/opportunityanalysis, anddistributionplan Participant

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.Chapter_15_Shiva_SHIVA_Const
reference "PINK-06-P0019"
state R -> R1
node N1
representation JP(PINK-06-P0019)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume05_Family_and_Objects.pdf, page 19 of 47. Chapter 15 Shiva -SHIVA Construct Formula-specific
```

NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source PinkPaper_Volume05_Family_and_Objects.pdf, page 20 of 47. Chapter 16 Shekina -SHEKINA Construct Formula-specific expression Module MJ.PBMEF.Family.SHEKINA Namespace MJ.PBMEF.Family.SHEKINA.Day0 Import MJ.PBMEF.Manifest,MJ.PBMEF.Authority,MJ.PBMEF.Formulas Declaration participantSHEKINA Definition Distributedplacement,replication,continuity,andinfrastructureevidence. Capability placementreceipt,continuityevidence Participant Shekina Relationship Incoming: JO_EXECUTION;outgoi

PATH OF EXPRESSION

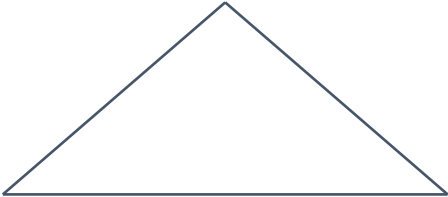
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_16_Shekina_SHEKINA_C
reference "PINK-06-P0020"
state R -> R1
node N1
representation JP(PINK-06-P0020)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume05_Family_and_Objects.pdf, page 20 of 47. Chapter 16 Shekina -SHEKINA Construct Formula-spec
```

Node Placement / Rainbow Path









Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume05_Family_and_Objects.pdf, page 21 of 47. Chapter 17 Belle -BELLE Construct Formula-specific expression Module MJ.PBMEF.Family.BELLE Namespace MJ.PBMEF.Family.BELLE.Day0 Import MJ.PBMEF.Manifest,MJ.PBMEF.Authority,MJ.PBMEF.Formulas Declaration participantBELLE Definition Engineeringanalysis,feasibility,topologyreview,andboundedproposals. Capability engineeringproposal,risknote Participant Belle Relationship Incoming: MK;outgoing: receipttoMJ/JO Function Engi

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> Mj bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.Chapter_17_Belle_BELLE_Const
reference "PINK-06-P0021"
state R -> R1
node N1
representation JP(PINK-06-P0021)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume05_Family_and_Objects.pdf, page 21 of 47. Chapter 17 Belle -BELLE Construct Formula-specific
```

NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source PinkPaper_Volume05_Family_and_Objects.pdf, page 22 of 47. Chapter 18 Lecanto -LECANTO Construct Formula-specific expression Module MJ.PBMEF.Family.LECANTO Namespace MJ.PBMEF.Family.LECANTO.Day0 Import MJ.PBMEF.Manifest,MJ.PBMEF.Authority,MJ.PBMEF.Formulas Declaration participantLECANTO Definition Truthfulgovernedvisualizationofstate,provenance,uncertainty,andsystemstructure. Capability visualrepresentation Participant Lecanto Relationship Incoming: JO_EXECUTION;outgoing: MO

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```

module MJ.Rainbow.Chapter_18_Lecanto_LECANTO_C
reference "PINK-06-P0022"
state R -> R1
node N1
representation JP(PINK-06-P0022)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume05_Family_and_Objects.pdf, page 22 of 47. Chapter 18 Lecanto -LECANTO Construct Formula-spec

```


Node Placement / Rainbow Path

Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source PinkPaper_Volume05_Family_and_Objects.pdf, page 23 of 47. Chapter 19 Moana -MOANA Construct Formula-specific expression Module MJ.PBMEF.Family.MOANA Namespace MJ.PBMEF.Family.MOANA.Day0 Import MJ.PBMEF.Manifest,MJ.PBMEF.Authority,MJ.PBMEF.Formulas Declaration participantMOANA Definition Browserandinteractionpresentationofgovernedapplicationsandevidence. Capability interactionsurface Participant Moana Relationship Incoming: LECANTO;outgoing: receipttoMJ/JO Function Browseran

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

module MJ.Rainbow.Chapter_19_Moana_MOANA_Const
reference "PINK-06-P0023"
state R -> R1
node N1
representation JP(PINK-06-P0023)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
Pink source PinkPaper_Volume05_Family_and_Objects.pdf, page 23 of 47. Chapter 19 Moana -MOANA Construct Formula-specific

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

Source Rule / Intent

Pink source PinkPaper_Volume05_Family_and_Objects.pdf, page 24 of 47. Chapter 20 Aviator -AVIATOR Construct Formula-specific expression Module MJ.PBMEF.Family.AVIATOR Namespace MJ.PBMEF.Family.AVIATOR.Day0 Import MJ.PBMEF.Manifest,MJ.PBMEF.Authority,MJ.PBMEF.Formulas Declaration participantAVIATOR Definition Organizationalworkspace,projects,decisions,roles,knowledge,andgovernedworkflow. Capability workspacestate,decisionrecords Participant Aviator Relationship Incoming: JO_EXECUTION;ou

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

module MJ.Rainbow.Chapter_20_Aviator_AVIATOR_C
reference "PINK-06-P0024"
state R -> R1
node N1
representation JP(PINK-06-P0024)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
Pink source PinkPaper_Volume05_Family_and_Objects.pdf, page 24 of 47. Chapter 20 Aviator -AVIATOR Construct Formula-spec

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source PinkPaper_Volume05_Family_and_Objects.pdf, page 25 of 47. Chapter 21 CHI -CHI Construct Formula-specific expression Module MJ.PBMEF.Family.CHI Namespace MJ.PBMEF.Family.CHI.Day0 Import MJ.PBMEF.Manifest,MJ.PBMEF.Authority,MJ.PBMEF.Formulas Declaration participantCHI Definition Temporalvarianceandexpected-observed-delivered-reconciledifferencestate. Capability varianceobject Participant CHI Relationship Incoming: MJ/rootcontext;outgoing: receipttoMJ/JO Function Temporalvari

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

module MJ.Rainbow.Chapter_21_CHI_CHI_Construct
reference "PINK-06-P0025"
state R -> R1
node N1
representation JP(PINK-06-P0025)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
Pink source PinkPaper_Volume05_Family_and_Objects.pdf, page 25 of 47. Chapter 21 CHI -CHI Construct Formula-specific exp

Node Placement / Rainbow Path

R

R1

N1

U

D

C

OUT

Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source PinkPaper_Volume05_Family_and_Objects.pdf, page 26 of 47. Chapter 22 WATER -WATER Construct Formula-specific expression Module MJ.PBMEF.Family.WATER Namespace MJ.PBMEF.Family.WATER.Day0 Import MJ.PBMEF.Manifest,MJ.PBMEF.Authority,MJ.PBMEF.Formulas Declaration participantWATER Definition Intervaluncertainty,verifiedfloor,andboundedunknown-stateclassification. Capability stateclassification Participant WATER Relationship Incoming: MJ/rootcontext;outgoing: receipttoMJ/JO Funct

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.Chapter_22_WATER_WATER_Const
reference "PINK-06-P0026"
state R -> R1
node N1
representation JP(PINK-06-P0026)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume05_Family_and_Objects.pdf, page 26 of 47. Chapter 22 WATER -WATER Construct Formula-specific
```

NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source PinkPaper_Volume05_Family_and_Objects.pdf, page 27 of 47. Chapter 23 Governed object verification 26

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```

module MJ.Rainbow.Chapter_23_Governed_object_v
reference "PINK-06-P0027"
state R -> R1
node N6
representation JP(PINK-06-P0027)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume05_Family_and_Objects.pdf, page 27 of 47. Chapter 23 Governed object verification 26
    
```

NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source PinkPaper_Volume05_Family_and_Objects.pdf, page 28 of 47. PRIVA TE PRE-DA Y -0 - UNSIGNED REVIEW CANDIDA TE Pink Paper V - F amily / Objects 23.1 JP_CAPO Construct Formula-specific expression Module MJ.PBMEF.Object.JP_CAPO Namespace Mj.PBMEF.Object.JP_CAPO.Day0 Declaration objectJP_CAPO Definition Canonicalmath,algorithm,topology,orarchitecturerepresentation Capability Represent,retain,route,reconcile,orevidenceonlyasdeclared Participant Boundparticipantsdeterminedbyobjectr

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVA_TE_PRE_DA_Y_0_UNSIGNED
reference "PINK-06-P0028"
state R -> R1
node N1
representation JP(PINK-06-P0028)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume05_Family_and_Objects.pdf, page 28 of 47. PRIVA TE PRE-DA Y -0 - UNSIGNED REVIEW CANDIDA TE
```

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

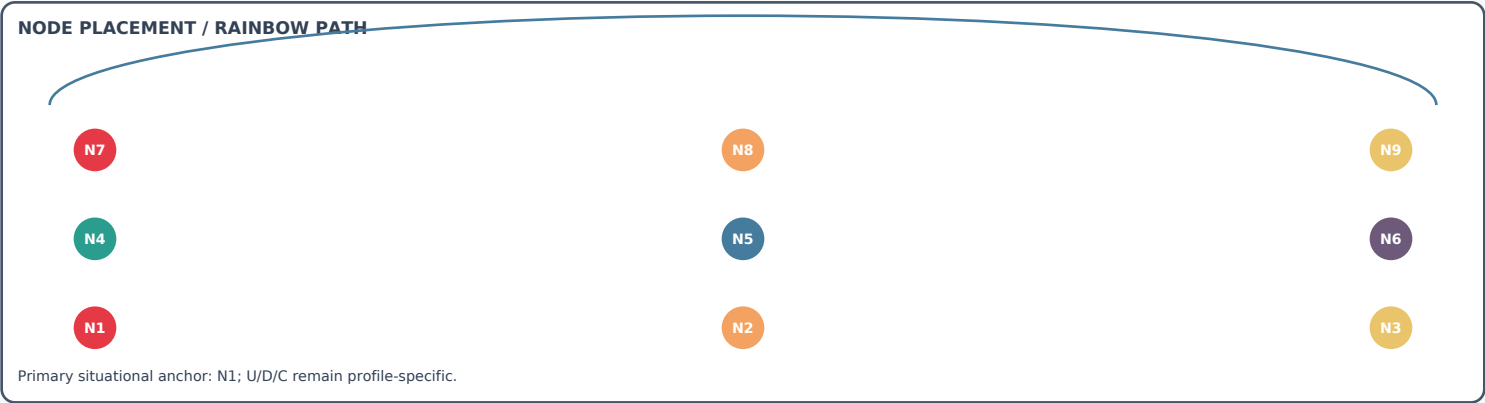
Pink source PinkPaper_Volume05_Family_and_Objects.pdf, page 29 of 47. PRIVA TE PRE-DA Y -0 - UNSIGNED REVIEW CANDIDA TE Pink Paper V - F amily / Objects 23.3 JO_PROOF_RECEIPT Construct Formula-specific expression Module MJ.PBMEF.Object.JO_PROOF_RECEIPT Namespace MJ.PBMEF.Object.JO_PROOF_RECEIPT.Day0 Declaration objectJO_PROOF_RECEIPT Definition Executedverificationresult Capability Represent,retain,route,reconcile,orevidenceonlyasdeclared Participant Boundparticipantsdeterminedbyobject

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVA_TE_PRE_DA_Y_0_UNSIGNED
reference "PINK-06-P0029"
state R -> R1
node N1
representation JP(PINK-06-P0029)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume05_Family_and_Objects.pdf, page 29 of 47. PRIVA TE PRE-DA Y -0 - UNSIGNED REVIEW CANDIDA TE
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume05_Family_and_Objects.pdf, page 30 of 47. PRIVA TE PRE-DA Y -0 - UNSIGNED REVIEW CANDIDA TE Pink Paper V - F amily / Objects 23.5 EVE_OBSERVATION Construct Formula-specific expression Module MJ.PBMEF.Object.EVE_OBSERVATION Namespace MJ.PBMEF.Object.EVE_OBSERVATION.Day0 Declaration objectEVE_OBSERVATION Definition Variance,screen,capture,egress,orresidualevidence Capability Represent,retain,route,reconcile,orevidenceonlyasdeclared Participant Boundparticipant

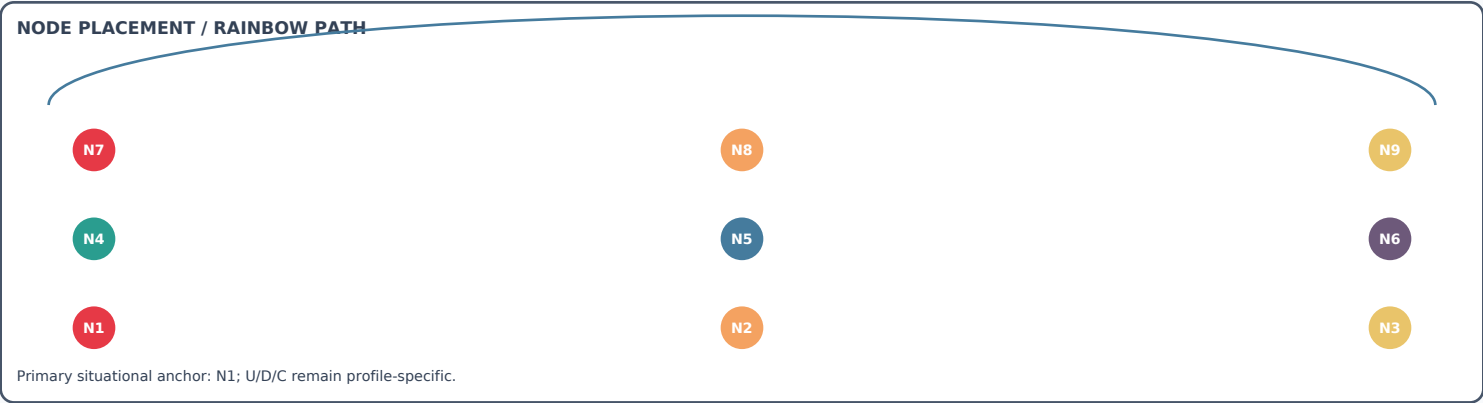
PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> Mj bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```

module MJ.Rainbow.PRIVA_TE_PRE_DA_Y_0_UNSIGNED
reference "PINK-06-P0030"
state R -> R1
node N1
representation JP(PINK-06-P0030)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume05_Family_and_Objects.pdf, page 30 of 47. PRIVA TE PRE-DA Y -0 - UNSIGNED REVIEW CANDIDA TE

```

R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume05_Family_and_Objects.pdf, page 31 of 47. PRIVA TE PRE-DA Y -0 - UNSIGNED REVIEW CANDIDA TE Pink Paper V - F amily / Objects 23.7 MERMAID_ACCOUNT Construct Formula-specific expression Module MJ.PBMEF.Object.MERMAID_ACCOUNT Namespace MJ.PBMEF.Object.MERMAID_ACCOUNT.Day0 Declaration objectMERMAID_ACCOUNT Definition Accounting,custody,exposure,tax,andreconciliationrecord Capability Represent,retain,route,reconcile,orevidenceonlyasdeclared Participant Boundparti

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> Mj bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```

module MJ.Rainbow.PRIVA_TE_PRE_DA_Y_0_UNSIGNED
reference "PINK-06-P0031"
state R -> R1
node N1
representation JP(PINK-06-P0031)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume05_Family_and_Objects.pdf, page 31 of 47. PRIVA TE PRE-DA Y -0 - UNSIGNED REVIEW CANDIDA TE

```

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source PinkPaper_Volume05_Family_and_Objects.pdf, page 32 of 47. PRIVA TE PRE-DA Y -0 - UNSIGNED REVIEW CANDIDA TE Pink Paper V - F amily / Objects 23.9 SHIVAS_INTERNAL_REFLECTION Construct Formula-specific expression Module MJ.PBMEF.Object.SHIVAS_INTERNAL_REFLECTION Namespace MJ.PBMEF.Object.SHIVAS_INTERNAL_REFLECTION.Day0 Declaration objectSHIVAS_INTERNAL_REFLECTION Definition Internalnon-transferablecapital-reflectionobject Capability Represent,retain,route,reconcile,orevidence

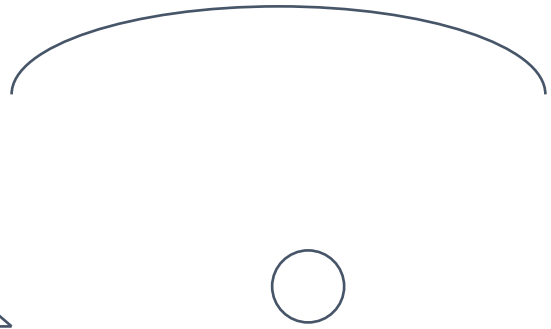
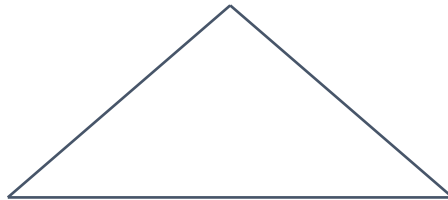
PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVA_TE_PRE_DA_Y_0_UNSIGNED
reference "PINK-06-P0032"
state R -> R1
node N1
representation JP(PINK-06-P0032)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume05_Family_and_Objects.pdf, page 32 of 47. PRIVA TE PRE-DA Y -0 - UNSIGNED REVIEW CANDIDA TE
```

NODE PLACEMENT / RAINBOW PATH



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source PinkPaper_Volume05_Family_and_Objects.pdf, page 33 of 47.
 PRIVA TE PRE-DA Y -0 - UNSIGNED REVIEW CANDIDA TE Pink Paper V - F amily /
 Objects 23.11 WATER_INTERVAL_STATE Construct Formula-specific expression
 Module MJ.PBMEF.Object.WATER_INTERVAL_STATE Namespace
 MJ.PBMEF.Object.WATER_INTERVAL_STATE.Day0 Declaration
 objectWATER_INTERVAL_STATE Definition Uncertaintyintervalstate Capability
 Represent,retain,route,reconcile,orevidenceonlyasdeclared Participant
 Boundparticipantsdet

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVA_TE_PRE-DA_Y_0_UNSigned
reference "PINK-06-P0033"
state R -> R1
node N1
representation JP(PINK-06-P0033)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper Volume05 Family and Objects.pdf, page 33 of 47. PRIVA TE PRE-DA Y -0 - UNSIGNED REVIEW CANDIDA TE
```

NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

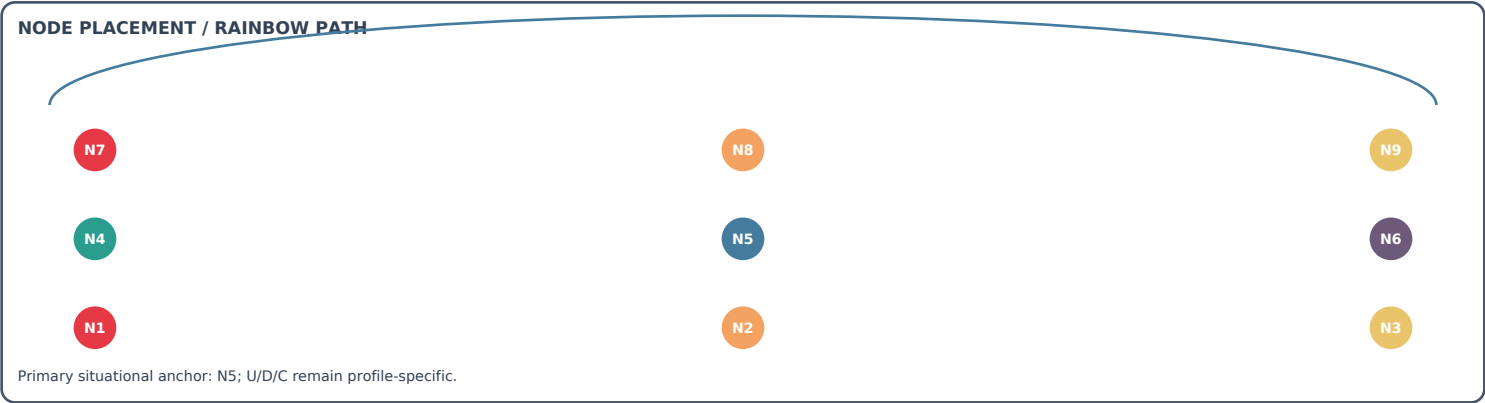
Pink source PinkPaper_Volume05_Family_and_Objects.pdf, page 34 of 47. PRIVA TE PRE-DA Y -0 - UNSIGNED REVIEW CANDIDA TE Pink Paper V - F amily / Objects 23.13 PEARL_VARIANCE_CONTAINER Construct Formula-specific expression Module MJ.PBMEF.Object.PEARL_VARIANCE_CONTAINER Namespace MJ.PBMEF.Object.PEARL_VARIANCE_CONTAINER.Day0 Declaration objectPEARL_VARIANCE_CONTAINER Definition LegacystableIDforapearl-shapedhypotheticalsimulationandinformation-retentionobject;ne Cap

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVA_TE_PRE_DA_Y_0_UNSIGNED
reference "PINK-06-P0034"
state R -> R1
node N1
representation JP(PINK-06-P0034)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume05_Family_and_Objects.pdf, page 34 of 47. PRIVA TE PRE-DA Y -0 - UNSIGNED REVIEW CANDIDA TE
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume05_Family_and_Objects.pdf, page 35 of 47. PRIVA TE PRE-DA Y -0 - UNSIGNED REVIEW CANDIDA TE Pink Paper V - F amily / Objects 23.15 PEARL_ACOUSTIC_PROFILE Construct Formula-specific expression Module MJ.PBMEF.Object.PEARL_ACOUSTIC_PROFILE Namespace MJ.PBMEF.Object.PEARL_ACOUSTIC_PROFILE.Day0 Declaration objectPEARL_ACOUSTIC_PROFILE Definition Hypotheticalacousticsimulationprofilewithdeclaredfrequency,medium,observability,uncert

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVA_TE_PRE_DA_Y_0_UNSIGNED
reference "PINK-06-P0035"
state R -> R1
node N5
representation JP(PINK-06-P0035)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume05_Family_and_Objects.pdf, page 35 of 47. PRIVA TE PRE-DA Y -0 - UNSIGNED REVIEW CANDIDA TE
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume05_Family_and_Objects.pdf, page 36 of 47. PRIVA TE PRE-DA Y -0 - UNSIGNED REVIEW CANDIDA TE Pink Paper V - F amily / Objects 23.17 Bangel _SHEET Construct Formula-specific expression Module MJ.PBMEF.Object.Bangel _SHEET Namespace MJ.PBMEF.Object.Bangel _SHEET.Day0 Declaration objectBangel _SHEET Definition Governedspreadsheet-likeworkbookwithimmutablerevisions,typedcells,dependencygraph, Capability Represent,retain,route,reconcile,orevidenceonl

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> Mj bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```

module MJ.Rainbow.PRIVA_TE_PRE_DA_Y_0_UNSIGNED
reference "PINK-06-P0036"
state R -> R1
node N1
representation JP(PINK-06-P0036)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume05_Family_and_Objects.pdf, page 36 of 47. PRIVA TE PRE-DA Y -0 - UNSIGNED REVIEW CANDIDA TE

```


Node Placement / Rainbow Path

Rectangle

Cone

Sister umbrella

EVE/lake

next-cycle re-entry



R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source PinkPaper_Volume05_Family_and_Objects.pdf, page 38 of 47. PRIVA TE PRE-DA Y -0 - UNSIGNED REVIEW CANDIDA TE Pink Paper V - F amily / Objects 23.21 JPOSMJ_PRODUCT_ENVELOPE Construct Formula-specific expression Module MJ.PBMEF.Object.JPOSMJ_PRODUCT_ENVELOPE Namespace MJ.PBMEF.Object.JPOSMJ_PRODUCT_ENVELOPE.Day0 Declaration objectJPOSMJ_PRODUCT_ENVELOPE Definition PortfolioenvelopebindingJP-originproductlogicthroughMKphysics,JOproof,andMJpermit Capability Represent,retain,rout

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVA_TE_PRE_DA_Y_0_UNSIGNED
reference "PINK-06-P0038"
state R -> R1
node N1
representation JP(PINK-06-P0038)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume05_Family_and_Objects.pdf, page 38 of 47. PRIVA TE PRE-DA Y -0 - UNSIGNED REVIEW CANDIDA TE
```


NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source PinkPaper_Volume05_Family_and_Objects.pdf, page 39 of 47. PRIVA TE PRE-DA Y -0 - UNSIGNED REVIEW CANDIDA TE Pink Paper V - F amily / Objects 23.23 STANDARD_CONTAINMENT_GEOMETRY_PROFILE Construct Formula-specific expression Module MJ.PBMEF.Object.STANDARD_CONTAINMENT_GEOMETRY_PROFILE Namespace MJ.PBMEF.Object.STANDARD_CONTAINMENT_GEOMETRY_PROFILE.Day0 Declaration objectSTANDARD_CONTAINMENT_GEOMETRY_PROFILE Definition Typedscale-independentrectangle/cone/umbrella/descent/EVE/

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVA_TE_PRE_DA_Y_0_UNSIGNED
reference "PINK-06-P0039"
state R -> R1
node N9
representation JP(PINK-06-P0039)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume05_Family_and_Objects.pdf, page 39 of 47. PRIVA TE PRE-DA Y -0 - UNSIGNED REVIEW CANDIDA TE
```

--



Pink source PinkPaper_Volume05_Family_and_Objects.pdf, page 40 of 47.
 PRIVA te PRE-DA Y-0 - UNSIGNED REVIEW CÂNDIDA te Pink Paper V - F amily /
 Objects 23.25 CONTAINMENT_MODIFICATION_RECEIPT Construct
 Formula-specific expression Module
 MJ.PBMEF.Object.CONTAINMENT_MODIFICATION_RECEIPT Namespace
 MJ.PBMEF.Object.CONTAINMENT_MODIFICATION_RECEIPT.Day0 Declaration
 objectCONTAINMENT_MODIFICATION_RECEIPT Definition
 Recalculationandvalidationreceiptforcommand/profile-specificgeometrychanges

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

```
module MJ.Rainbow.PRIVA_TE_PRE-DA_Y_0_UNSIGNED
reference "PINK-06-P0040"
state R -> R1
node N1
representation JP(PINK-06-P0040)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper.Volune05.Family.and.Objects.pdf, page 40 of 47. PRIVA TE PRE-DA Y -0 - UNSIGNED REVIEW CANDIDA TE
```

--



Pink source PinkPaper_Volume05_Family_and_Objects.pdf, page 41 of 47.
 PRIVA TE PRE-DA Y -0 - UNSIGNED REVIEW CANDIDA TE Pink Paper V - F amily /
 Objects 23.27 GAS_HEIGHT_OBSERVATION Construct Formula-specific
 expression Module MJ.PBMEF.Object.GAS_HEIGHT_OBSERVATION Namespace
 MJ.PBMEF.Object.GAS_HEIGHT_OBSERVATION.Day0 Declaration
 objectGAS_HEIGHT_OBSERVATION Definition
 Calibratedpressure/temperature/density/height/timeobservationfor gas-frontreferencecalci
 Capability Represent, re

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

```
module MJ.Rainbow.PRIVA_TE_PRE-DA_Y_0_UNSigned
reference "PINK-06-P0041"
state R -> R1
node N1
representation JP(PINK-06-P0041)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper Volume05 Family_and Objects.pdf, page 41 of 47. PRIVA TE PRE-DA Y -0 - UNSIGNED REVIEW CANDIDA TE
```

NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

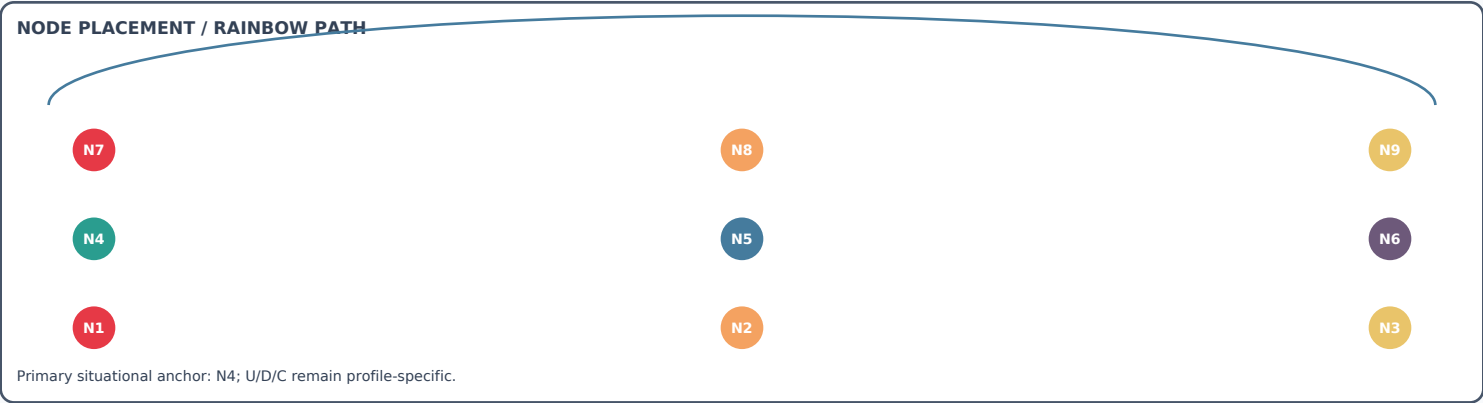
Pink source PinkPaper_Volume05_Family_and_Objects.pdf, page 42 of 47. PRIVA TE PRE-DA Y -0 - UNSIGNED REVIEW CANDIDA TE Pink Paper V - F amily / Objects 23.29 OUTWARD_GAP_PATH_RECEIPT Construct Formula-specific expression Module MJ.PBMEF.Object.OUTWARD_GAP_PATH_RECEIPT Namespace MJ.PBMEF.Object.OUTWARD_GAP_PATH_RECEIPT.Day0 Declaration objectOUTWARD_GAP_PATH_RECEIPT Definition JO/MKproofthattheoutletpathremainsoutsidethenonphysicalPearlreferencecircle. Capability Represent,retain,route

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVA_TE_PRE_DA_Y_0_UNSIGNED
reference "PINK-06-P0042"
state R -> R1
node N1
representation JP(PINK-06-P0042)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume05_Family_and_Objects.pdf, page 42 of 47. PRIVA TE PRE-DA Y -0 - UNSIGNED REVIEW CANDIDA TE
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume05_Family_and_Objects.pdf, page 43 of 47. PRIVA TE PRE-DA Y -0 - UNSIGNED REVIEW CANDIDA TE Pink Paper V - F amily / Objects 23.31 CIRCULAR_REENTRY_RECEIPT Construct Formula-specific expression Module MJ.PBMEF.Object.CIRCULAR_REENTRY_RECEIPT Namespace MJ.PBMEF.Object.CIRCULAR_REENTRY_RECEIPT.Day0 Declaration objectCIRCULAR_REENTRY_RECEIPT Definition Circularport,inwardangle,tangentialcomponent,continuity,andspiral-compatibilityevidence Capability Represent,

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> Mj bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```

module MJ.Rainbow.PRIVA_TE_PRE_DA_Y_0_UNSIGNED
reference "PINK-06-P0043"
state R -> R1
node N4
representation JP(PINK-06-P0043)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume05_Family_and_Objects.pdf, page 43 of 47. PRIVA TE PRE-DA Y -0 - UNSIGNED REVIEW CANDIDA TE

```

NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source PinkPaper_Volume05_Family_and_Objects.pdf, page 44 of 47.
PRIVA TE PRE-DA Y -0 - UNSIGNED REVIEW CANDIDA TE Pink Paper V - F amily / Objects 23.33 RESERVOIR_LAKE_BUFFER Construct Formula-specific expression
Module MJ.PBMEF.Object.RESERVOIR_LAKE_BUFFER Namespace
MJ.PBMEF.Object.RESERVOIR_LAKE_BUFFER.Day0 Declaration
objectRESERVOIR_LAKE_BUFFER Definition
Boundedpost-containmentbuffercandidateforretention,redistribution,andreceiptedre-entry
Capability Represent,retain,route,r

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVA_TE_PRE_DA_Y_0_UNSIGNED
reference "PINK-06-P0044"
state R -> R1
node N1
representation JP(PINK-06-P0044)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume05_Family_and_Objects.pdf, page 44 of 47. PRIVA TE PRE-DA Y -0 - UNSIGNED REVIEW CANDIDA TE
```

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source PinkPaper_Volume05_Family_and_Objects.pdf, page 45 of 47. PRIVA TE PRE-DA Y -0 - UNSIGNED REVIEW CANDIDA TE Pink Paper V - F amily / Objects 23.35 OUTWARD_GAP_ARC Construct Formula-specific expression Module MJ.PBMEF.Object.OUTWARD_GAP_ARC Namespace MJ.PBMEF.Object.OUTWARD_GAP_ARC.Day0 Declaration objectOUTWARD_GAP_ARC Definition Outward-facingangularreferencethroughwhichtheoutletclearsthenonphysicalPearreference Capability Represent,retain,route,reconcile,orevidence

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

module MJ.Rainbow.PRIVA_TE_PRE_DA_Y_0_UNSIGNED
reference "PINK-06-P0045"
state R -> R1
node N1
representation JP(PINK-06-P0045)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
Pink source PinkPaper_Volume05_Family_and_Objects.pdf, page 45 of 47. PRIVA TE PRE-DA Y -0 - UNSIGNED REVIEW CANDIDA TE

NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

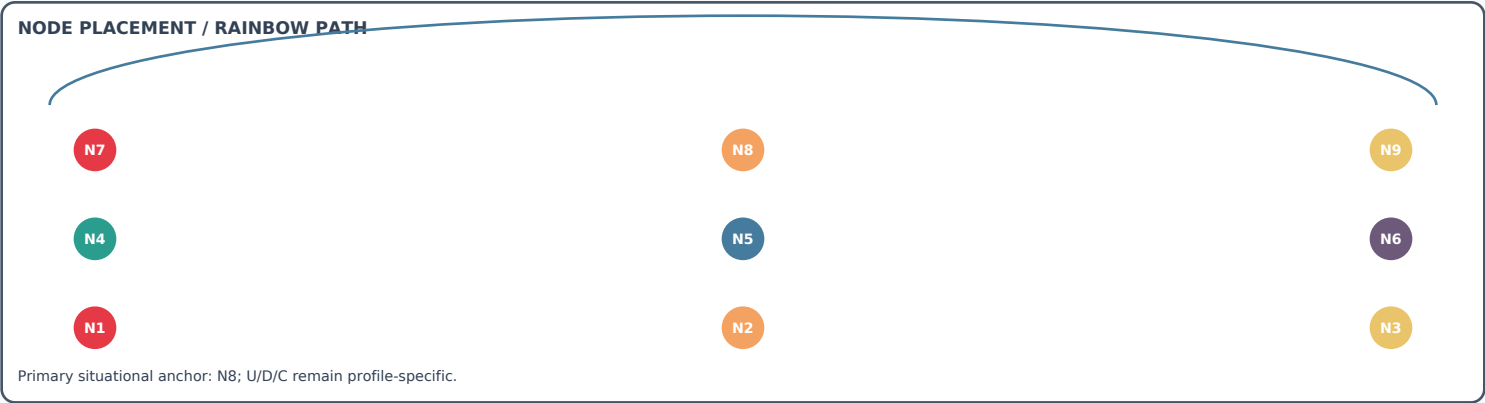
Pink source PinkPaper_Volume05_Family_and_Objects.pdf, page 46 of 47. PRIVA TE PRE-DA Y -0 - UNSIGNED REVIEW CANDIDA TE Pink Paper V - F amily / Objects 23.37 CIRCULAR_REENTRY_PORT Construct Formula-specific expression Module MJ.PBMEF.Object.CIRCULAR_REENTRY_PORT Namespace MJ.PBMEF.Object.CIRCULAR_REENTRY_PORT.Day0 Declaration objectCIRCULAR_REENTRY_PORT Definition Circularinward-angledportcandidatesupplyingmeasuredradialandtangentialre-entrycompo Capability Represent,retain,route

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVA_TE_PRE_DA_Y_0_UNSIGNED
reference "PINK-06-P0046"
state R -> R1
node N1
representation JP(PINK-06-P0046)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume05_Family_and_Objects.pdf, page 46 of 47. PRIVA TE PRE-DA Y -0 - UNSIGNED REVIEW CANDIDA TE
```

R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume05_Family_and_Objects.pdf, page 47 of 47. PRIVA TE PRE-DA Y -0 - UNSIGNED REVIEW CANDIDA TE Pink Paper V - F amily / Objects 23.39 PERSPECTIVE_FRICTION_RECEIPT Construct Formula-specific expression Module MJ.PBMEF.Object.PERSPECTIVE_FRICTION_RECEIPT Namespace MJ.PBMEF.Object.PERSPECTIVE_FRICTION_RECEIPT.Day0 Declaration objectPERSPECTIVE_FRICTION_RECEIPT Definition Separatescoordinate-transformresidual,physicaldissipation,andinformationfriction Capability Re

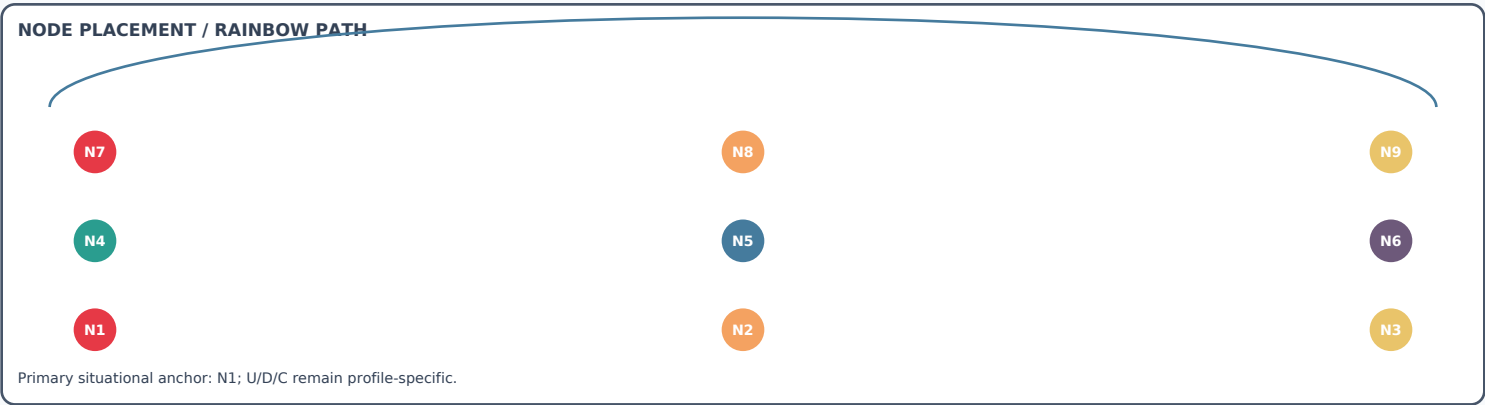
PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> Mj bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```

module MJ.Rainbow.PRIVA_TE_PRE_DA_Y_0_UNSIGNED
reference "PINK-06-P0047"
state R -> R1
node N8
representation JP(PINK-06-P0047)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume05_Family_and_Objects.pdf, page 47 of 47. PRIVA TE PRE-DA Y -0 - UNSIGNED REVIEW CANDIDA TE

```

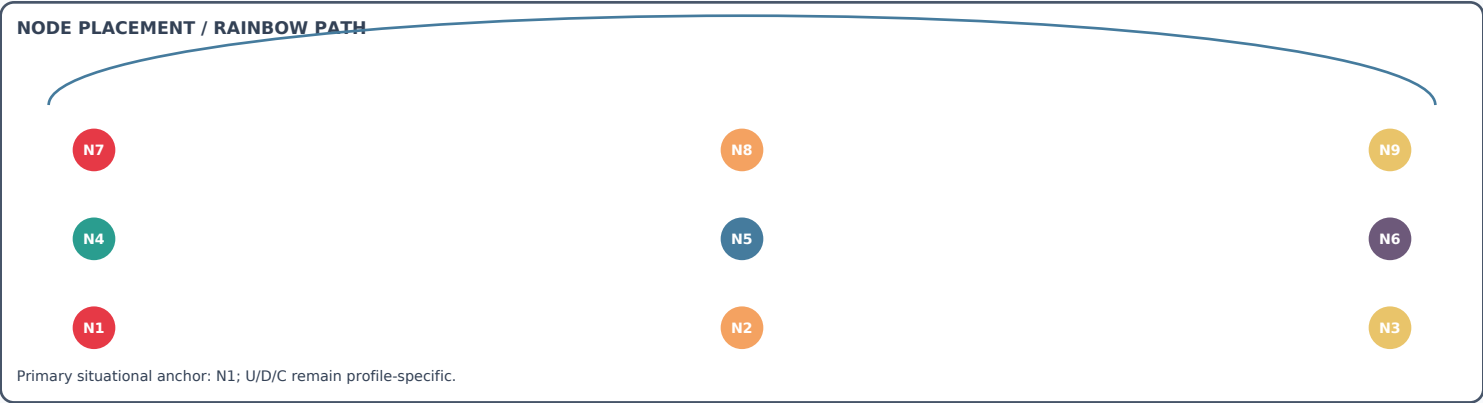


R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume06_Products_and_WhitePapers.pdf, page 1 of 66. MJ-PBMEFPinkPaper-VolumeVI ProductManifestations,White-PaperLineage,andVerificationCrosswalk MichaelBangel-AuthorandArchitect August2026

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.MJ_PBMEFPinkPaper_VolumeVI_P
reference "PINK-07-P0001"
state R -> R1
node N1
representation JP(PINK-07-P0001)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume06_Products_and_WhitePapers.pdf, page 1 of 66. MJ-PBMEFPinkPaper-VolumeVI ProductManifestati
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume06_Products_and_WhitePapers.pdf, page 2 of 66. Contents 1 Product gateway verification 5 2 MJ Physics Based Measurement Engineering Framework -PBMEF-CORE 6 2.1 Applicationandlife-cyclepotential6 3 Bangel Governed Measurement Language -Bangel -LANGUAGE 7 3.1 Applicationandlife-cyclepotential7 4 Elsa Deterministic Semantic Recovery -ELSA-SEMANT

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Contents_1_Product_gateway_v
reference "PINK-07-P0002"
state R -> R1
node N1
representation JP(PINK-07-P0002)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume06_Products_and_WhitePapers.pdf, page 2 of 66. Contents 1 Product gateway verification 5 2 M
```

NODE PLACEMENT / RAINBOW PATH

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume06_Products_and_WhitePapers.pdf, page 3 of 66. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper VI - Products / White Papers 17SHIVAS Internal Settlement Reflection -SHIVAS-INTERNAL 21 17.1Applicationandlife-cyclepotential21 18Shiva Crypto External-Market Candidate -SHIVA-CRYPTO 22 18.1Applicationandlife-cyclepotential22 19Shiva Exch

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```

module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-07-P0003"
state R -> R1
node N1
representation JP(PINK-07-P0003)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume06_Products_and_WhitePapers.pdf, page 3 of 66. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE

```

Node Placement / Rainbow Path



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume06_Products_and_WhitePapers.pdf, page 4 of 66. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper VI - Products / White Papers 30.20 CHI—MJManifestationWhitePaper- MJ-PBMEF-FAMILY-WP-2044 30.21 WATER—MJManifestationWhitePaper- MJ-PBMEF-FAMILY-WP-2145 30.22 MJPhysicsBasedMeasurementEngineeringFramework- MJ-PBMEF-PRODUCT-WP-01 . . .45 30.23 Bangel GovernedMeasurementLanguage-MJ-PBMEF-PRODUCT-WP-02 .

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-07-P0004"
state R -> R1
node N3
representation JP(PINK-07-P0004)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume06_Products_and_WhitePapers.pdf, page 4 of 66. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume06_Products_and_WhitePapers.pdf, page 5 of 66. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper VI - Products / White Papers Claims ceiling Thisdocumentisaprivatepre-Day-0reviewandverificationcandidate. Itauthenticatesnopri- vate key and creates no physical validation, physical operation authority, product certification, external regulatory authority, production deployment, financial-product launch, token issuance, Aintegration,orphysical-coordinateappro

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-07-P0005"
state R -> R1
node N1
representation JP(PINK-07-P0005)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume06_Products_and_WhitePapers.pdf, page 5 of 66. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE
```

NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source PinkPaper_Volume06_Products_and_WhitePapers.pdf, page 6 of 66.
Chapter 1 Product gateway verification 5

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_1_Product_gateway_ve
reference "PINK-07-P0006"
state R -> R1
node N1
representation JP(PINK-07-P0006)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume06_Products_and_WhitePapers.pdf, page 6 of 66. Chapter 1 Product gateway verification 5
```

Node Placement / Rainbow Path

R

R1

N1

U

D

C

OUT

Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

Source Rule / Intent

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

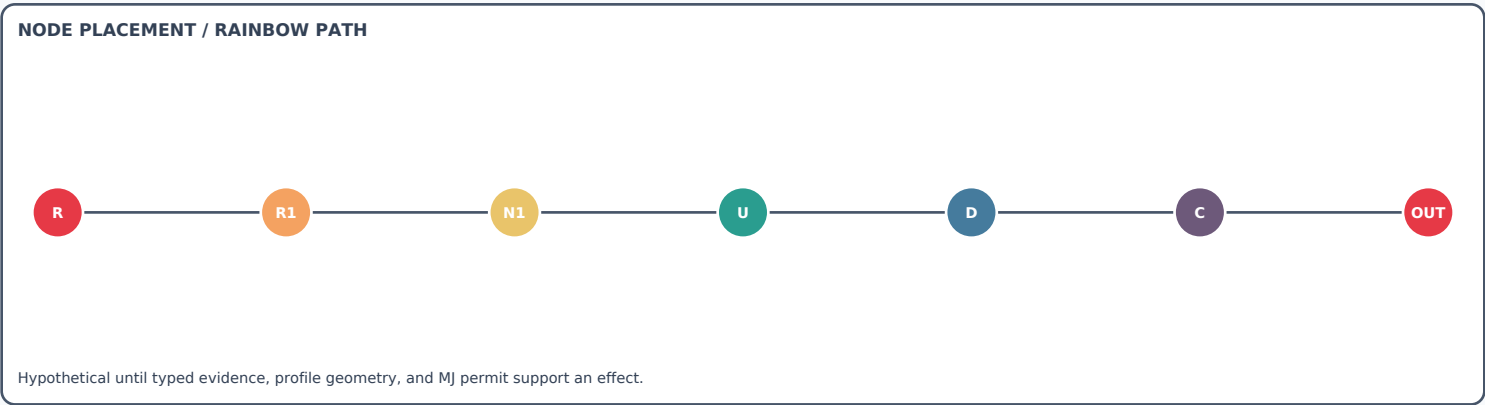
Pink source PinkPaper_Volume06_Products_and_WhitePapers.pdf, page 7 of 66. Chapter 2 MJ Physics Based Measurement Engi- neering Framework -PBMEF-CORE Construct Formula-specific expression Module MJ.PBMEF.Product.PBMEF-CORE Namespace MJ.PBMEF.Product.PBMEF-CORE.Day0 Import Manifest,productregister,applicableformulas,familyandobjectdefinitions Declaration productPBMEF-CORE Definition Integratepurpose,mathematics,physics,verification,safety,resourcerouting,accounting,financ

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.Chapter_2_MJ_Physics_Based_M
reference "PINK-07-P0007"
state R -> R1
node N1
representation JP(PINK-07-P0007)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume06_Products_and_WhitePapers.pdf, page 7 of 66. Chapter 2 MJ Physics Based Measurement Engi-
```

R Status / Observation	Source Rule / Intent
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume06_Products_and_WhitePapers.pdf, page 8 of 66. Chapter 3 Bangel Governed Measurement Lan- guage -Bangel -LANGUAGE Construct Formula-specific expression Module MJ.PBMEF.Product.Bangel -LANGUAGE Namespace MJ.PBMEF.Product.Bangel -LANGUAGE.Day0 Import Manifest,productregister,applicableformulas,familyandobjectdefinitions Declaration productBangel -LANGUAGE Definition Expressshumanpurpose,typedmeasurements,formulas,evidence,andcommandpathways. Capability Reference,simulat

Path of Expression
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.Chapter_3_Bangel_Governed_Me
reference "PINK-07-P0008"
state R -> R1
node N7
representation JP(PINK-07-P0008)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume06_Products_and_WhitePapers.pdf, page 8 of 66. Chapter 3 Bangel Governed Measurement Lan- guage
```

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

Source Rule / Intent

Pink source PinkPaper_Volume06_Products_and_WhitePapers.pdf, page 9 of 66. Chapter 4 Elsa Deterministic Semantic Recovery - ELSA-SEMANTICS Construct Formula-specific expression Module MJ.PBMEF.Product.ELSA-SEMANTICS Namespace MJ.PBMEF.Product.ELSA-SEMANTICS.Day0 Import Manifest,productregister,applicableformulas,familyandobjectdefinitions Declaration productELSA-SEMANTICS Definition Recoverandpreserveddeclaredmeaningwithoutautonomousinferenceorauthority. Capability Reference,simulation,imple

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

module MJ.Rainbow.Chapter_4_Elsa_Deterministic
reference "PINK-07-P0009"
state R -> R1
node N1
representation JP(PINK-07-P0009)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
Pink source PinkPaper_Volume06_Products_and_WhitePapers.pdf, page 9 of 66. Chapter 4 Elsa Deterministic Semantic Recover



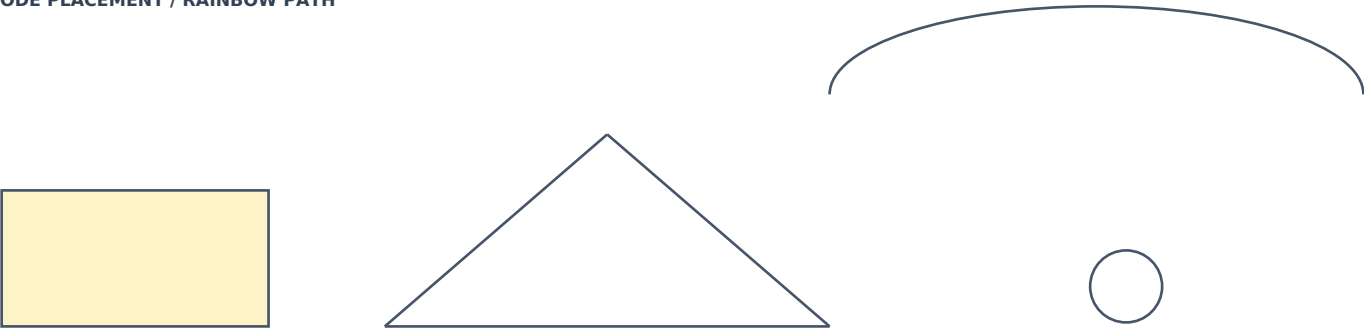
R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume06_Products_and_WhitePapers.pdf, page 10 of 66. Chapter 5 JP Mathematical and Architectural Canon -JP-CANON Construct Formula-specific expression Module MJ.PBMEF.Product.JP-CANON Namespace MJ.PBMEF.Product.JP-CANON.Day0 Import Manifest,productregister,applicableformulas,familyandobjectdefinitions Declaration productJP-CANON Definition Representequations,algorithms,CAPOs,topology,products,andproofs. Capability Reference,simulation,implementationcandidate,orevidence

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> Mj bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_5_JP_Mathematical_an
reference "PINK-07-P0010"
state R -> R1
node N1
representation JP(PINK-07-P0010)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume06_Products_and_WhitePapers.pdf, page 10 of 66. Chapter 5 JP Mathematical and Architectural
```

Node Placement / Rainbow Path



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume06_Products_and_WhitePapers.pdf, page 11 of 66. Chapter 6 Mika/MK Physics Modulator System - MK-PHYSICS Construct Formula-specific expression Module MJ.PBMEF.Product.MK-PHYSICS Namespace MJ.PBMEF.Product.MK-PHYSICS.Day0 Import Manifest,productregister,applicableformulas,familyandobjectdefinitions Declaration productMK-PHYSICS Definition Createphysicsrepresentationsandverifyunits,conservation,boundaries,scale,andevidence Capability Reference,simulation,imp

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.Chapter_6_Mika_MK_Physics_Mo
reference "PINK-07-P0011"
state R -> R1
node N1
representation JP(PINK-07-P0011)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume06_Products_and_WhitePapers.pdf, page 11 of 66. Chapter 6 Mika/MK Physics Modulator System -
```

NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source PinkPaper_Volume06_Products_and_WhitePapers.pdf, page 12 of 66. Chapter 7 JO Deterministic Proof and Runtime - JO-RUNTIME Construct Formula-specific expression Module MJ.PBMEF.Product.JO-RUNTIME Namespace MJ.PBMEF.Product.JO-RUNTIME.Day0 Import Manifest,productregister,applicableformulas,familyandobjectdefinitions Declaration productJO-RUNTIME Definition Verifytypes,units,authority,physics,tests,evidence,andboundedexecution. Capability Reference,simulation,implementationcandidate

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_7_JO_Deterministic_P
reference "PINK-07-P0012"
state R -> R1
node N2
representation JP(PINK-07-P0012)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume06_Products_and_WhitePapers.pdf, page 12 of 66. Chapter 7 JO Deterministic Proof and Runtime
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume06_Products_and_WhitePapers.pdf, page 13 of 66. Chapter 8 MJOS Operating Substrate - MJOS- SUBSTRATE Construct Formula-specific expression Module MJ.PBMEF.Product.MJOS-SUBSTRATE Namespace MJ.PBMEF.Product.MJOS-SUBSTRATE.Day0 Import Manifest,productregister,applicableformulas,familyandobjectdefinitions Declaration productMJOS-SUBSTRATE Definition Provideisolatedresources,memory,storage,network,scheduling,andcontinuityunderMjlease Capability Reference,simulation,i

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> Mj bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_8_MJOS_Operating_Sub
reference "PINK-07-P0013"
state R -> R1
node N1
representation JP(PINK-07-P0013)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume06_Products_and_WhitePapers.pdf, page 13 of 66. Chapter 8 MJOS Operating Substrate - MJOS- S
```

Node Placement / Rainbow Path



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume06_Products_and_WhitePapers.pdf, page 14 of 66. Chapter 9 JP Semiconductor Phone Battery and OS Candidate -JP-SC-PHONE Construct Formula-specific expression Module MJ.PBMEF.Product.JP-SC-PHONE Namespace MJ.PBMEF.Product.JP-SC-PHONE.Day0 Import Manifest,productregister,applicableformulas,familyandobjectdefinitions Declaration productJP-SC-PHONE Definition Exploresemiconductor-scalestaticintake,powerwake,solarassist,battery,andoperating-system Capability

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_9_JP_Semiconductor_P
reference "PINK-07-P0014"
state R -> R1
node N1
representation JP(PINK-07-P0014)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume06_Products_and_WhitePapers.pdf, page 14 of 66. Chapter 9 JP Semiconductor Phone Battery and
```

Node Placement / Rainbow Path



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source PinkPaper_Volume06_Products_and_WhitePapers.pdf, page 15 of 66. Chapter 10 JP Large-Scale Boating Power Candi- date -JP-LS-BOAT Construct Formula-specific expression Module MJ.PBMEF.Product.JP-LS-BOAT Namespace MJ.PBMEF.Product.JP-LS-BOAT.Day0 Import Manifest,productregister,applicableformulas,familyandobjectdefinitions Declaration productJP-LS-BOAT Definition Explorelarge-scalestaticintake,solarinitiation,powerbus,containment,andmarinepowerintegrated Capability Reference,simul

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.Chapter_10_JP_Large_Scale_Bo
reference "PINK-07-P0015"
state R -> R1
node N1
representation JP(PINK-07-P0015)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume06_Products_and_WhitePapers.pdf, page 15 of 66. Chapter 10 JP Large-Scale Boating Power Cand
```


Node Placement / Rainbow Path



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source PinkPaper_Volume06_Products_and_WhitePapers.pdf, page 16 of 66. Chapter 11 JP Peaceful High-Energy Propulsion Research Candidate - JP-PEACEFUL- PROPULSION Construct Formula-specific expression Module MJ.PBMEF.Product.JP-PEACEFUL-PROPULSION Namespace MJ.PBMEF.Product.JP-PEACEFUL-PROPULSION.Day0 Import Manifest,productregister,applicableformulas,familyandobjectdefinitions Declaration productJP-PEACEFUL-PROPULSION Definition Explorepeacefulpropulsionmeasurementandcontrolundernon-wea

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.Chapter_11_JP_Peaceful_High_
reference "PINK-07-P0016"
state R -> R1
node N6
representation JP(PINK-07-P0016)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume06_Products_and_WhitePapers.pdf, page 16 of 66. Chapter 11 JP Peaceful High-Energy Propulsio
```

NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source PinkPaper_Volume06_Products_and_WhitePapers.pdf, page 17 of 66. Chapter 12 Sister Predictive Containment System - SISTER-CONTAINMENT Construct Formula-specific expression Module MJ.PBMEF.Product.SISTER-CONTAINMENT Namespace MJ.PBMEF.Product.SISTER-CONTAINMENT.Day0 Import Manifest,productregister,applicableformulas,familyandobjectdefinitions Declaration productSISTER-CONTAINMENT Definition Predictdemand,allocatebuffers,detectanomalies,andstageoverflowinboundedumbrellas. Capability

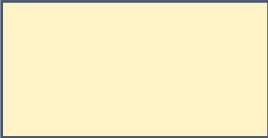
PATH OF EXPRESSION

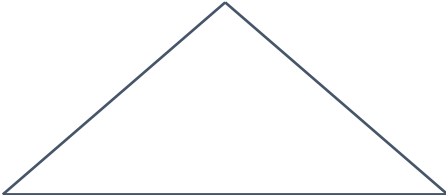
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_12_Sister_Predictive
reference "PINK-07-P0017"
state R -> R1
node N1
representation JP(PINK-07-P0017)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume06_Products_and_WhitePapers.pdf, page 17 of 66. Chapter 12 Sister Predictive Containment Sys
```

Node Placement / Rainbow Path









Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume06_Products_and_WhitePapers.pdf, page 18 of 66. Chapter 13 EVE Variance Screen and Egress Ac- counting -EVE-SCREEN Construct Formula-specific expression Module MJ.PBMEF.Product.EVE-SCREEN Namespace MJ.PBMEF.Product.EVE-SCREEN.Day0 Import Manifest,productregister,applicableformulas,familyandobjectdefinitions Declaration productEVE-SCREEN Definition Accountforvariance,evaporation,leakage,capture,andnaturalegresswithoutsilentlqss. Capability Reference,simulation,impl

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.Chapter_13_EVE_Variance_Scre
reference "PINK-07-P0018"
state R -> R1
node N1
representation JP(PINK-07-P0018)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume06_Products_and_WhitePapers.pdf, page 18 of 66. Chapter 13 EVE Variance Screen and Egress Ac
```

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source PinkPaper_Volume06_Products_and_WhitePapers.pdf, page 19 of 66. Chapter 14 Angels Safety and Corrective Command System
-ANGELS-SAFETY Construct Formula-specific expression Module
MJ.PBMEF.Product.ANGELS-SAFETY Namespace
MJ.PBMEF.Product.ANGELS-SAFETY.Day0 Import
Manifest,productregister,applicableformulas,familyandobjectdefinitions
Declaration productANGELS-SAFETY Definition
Providedomain-boundedtelemetry,hold,denial,isolation,andcorrectiveprotocols.
Capability Reference,simulati

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

module MJ.Rainbow.Chapter_14_Angels_Safety_and
reference "PINK-07-P0019"
state R -> R1
node N1
representation JP(PINK-07-P0019)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
Pink source PinkPaper_Volume06_Products_and_WhitePapers.pdf, page 19 of 66. Chapter 14 Angels Safety and Corrective Comm

Node Placement / Rainbow Path

R

R1

N1

U

D

C

OUT

Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source PinkPaper_Volume06_Products_and_WhitePapers.pdf, page 20 of 66. Chapter 15 Mermaid Accounting and Reconciliation System
-MERMAID-RECON Construct Formula-specific expression Module
MJ.PBMEF.Product.MERMAID-RECON Namespace
MJ.PBMEF.Product.MERMAID-RECON.Day0 Import
Manifest,productregister,applicableformulas,familyandobjectdefinitions
Declaration productMERMAID-RECON Definition
Maintainbalances,custodyevidence,exposure,taxlots,statements,andreconciliation.
Capability Reference,simu

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

module MJ.Rainbow.Chapter_15_Mermaid_Accountin
reference "PINK-07-P0020"
state R -> R1
node N1
representation JP(PINK-07-P0020)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
Pink source PinkPaper_Volume06_Products_and_WhitePapers.pdf, page 20 of 66. Chapter 15 Mermaid Accounting and Reconcilia

NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source PinkPaper_Volume06_Products_and_WhitePapers.pdf, page 21 of 66. Chapter 16 Shiva Dual Financial Rails -SHIVA-RAILS Construct
Formula-specific expression Module MJ.PBMEF.Product.SHIVA-RAILS
Namespace MJ.PBMEF.Product.SHIVA-RAILS.Day0 Import
Manifest,productregister,applicableformulas,familyandobjectdefinitions
Declaration productSHIVA-RAILS Definition
Separatestability/cashfunctionsfrominvestmentandcryptoriskwhilepreservingliquidity-first
Capability Reference,simulation,imp

PATH OF EXPRESSION

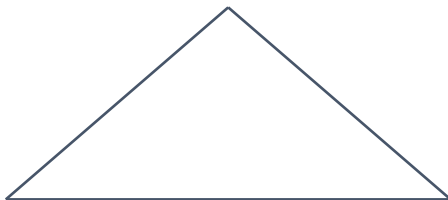
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_16_Shiva_Dual_Financ
reference "PINK-07-P0021"
state R -> R1
node N1
representation JP(PINK-07-P0021)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume06_Products_and_WhitePapers.pdf, page 21 of 66. Chapter 16 Shiva Dual Financial Rails -SHIVA
```

--

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.



R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Pink source PinkPaper_Volume06_Products_and_WhitePapers.pdf, page 22 of 66. Chapter 17 SHIVAS Internal Settlement Reflection - SHIVAS-INTERNAL Construct Formula-specific expression Module MJ.PBMEF.Product.SHIVAS-INTERNAL Namespace MJ.PBMEF.Product.SHIVAS-INTERNAL.Day0 Import Manifest.productregister,applicableformulas,familyandobjectdefinitions Declaration productSHIVAS-INTERNAL Definition Representinternalcapitalreflectionswithoutminting,redemption,publicofer,orvalueguarant Capability R

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> IQ evidence.

```
module MJ.Rainbow.Chapter_17_SHIVAS_Internal_S
reference "PINK-07-P0022"
state R -> R1
node N1
representation JP(PINK-07-P0022)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper Volume06 Products and WhitePapers.pdf, page 22 of 66. Chapter 17 SHIVAS Internal Settlement Reflec
```

NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

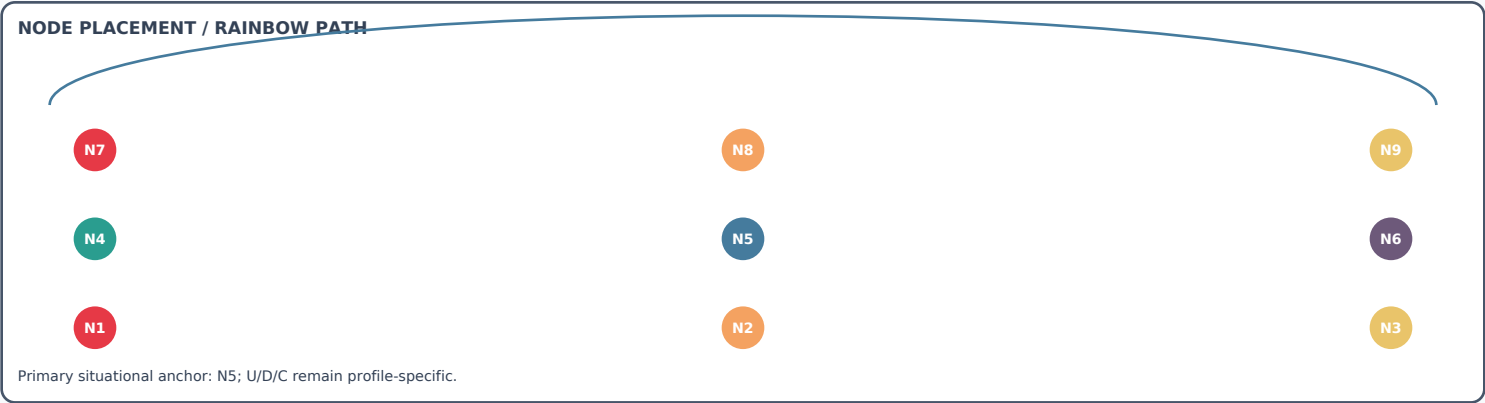
Pink source PinkPaper_Volume06_Products_and_WhitePapers.pdf, page 23 of 66. Chapter 18 Shiva Crypto External-Market Candi- date -SHIVA-CRYPTO Construct Formula-specific expression Module MJ.PBMEF.Product.SHIVA-CRYPTO Namespace MJ.PBMEF.Product.SHIVA-CRYPTO.Day0 Import Manifest,productregister,applicableformulas,familyandobjectdefinitions Declaration productSHIVA-CRYPTO Definition Modelaseparatelygovernedexternalcryptorailssubjecttofullclassificationandauthorization. Capability Reference,simul

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_18_Shiva_Crypto_Ext
reference "PINK-07-P0023"
state R -> R1
node N1
representation JP(PINK-07-P0023)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume06_Products_and_WhitePapers.pdf, page 23 of 66. Chapter 18 Shiva Crypto External-Market Cand
```

R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume06_Products_and_WhitePapers.pdf, page 24 of 66. Chapter 19 Shiva Exchange Rule Reference -SHIVA- EXCHANGE Construct Formula-specific expression Module MJ.PBMEF.Product.SHIVA-EXCHANGE Namespace MJ.PBMEF.Product.SHIVA-EXCHANGE.Day0 Import Manifest,productregister,applicableformulas,familyandobjectdefinitions Declaration productSHIVA-EXCHANGE Definition Modeltransparentprice-time,custody,audit,tax,andtransferruleswithoutoperatingamarket. Capability Reference,simulati

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> Mj bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_19_Shiva_Exchange_Ru
reference "PINK-07-P0024"
state R -> R1
node N5
representation JP(PINK-07-P0024)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume06_Products_and_WhitePapers.pdf, page 24 of 66. Chapter 19 Shiva Exchange Rule Reference -SHIVA- EXCHANGE Construct Formula-specific expression Module MJ.PBMEF.Product.SHIVA-EXCHANGE Namespace MJ.PBMEF.Product.SHIVA-EXCHANGE.Day0 Import Manifest,productregister,applicableformulas,familyandobjectdefinitions Declaration productSHIVA-EXCHANGE Definition Modeltransparentprice-time,custody,audit,tax,andtransferruleswithoutoperatingamarket. Capability Reference,simulati
```

Node Placement / Rainbow Path



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

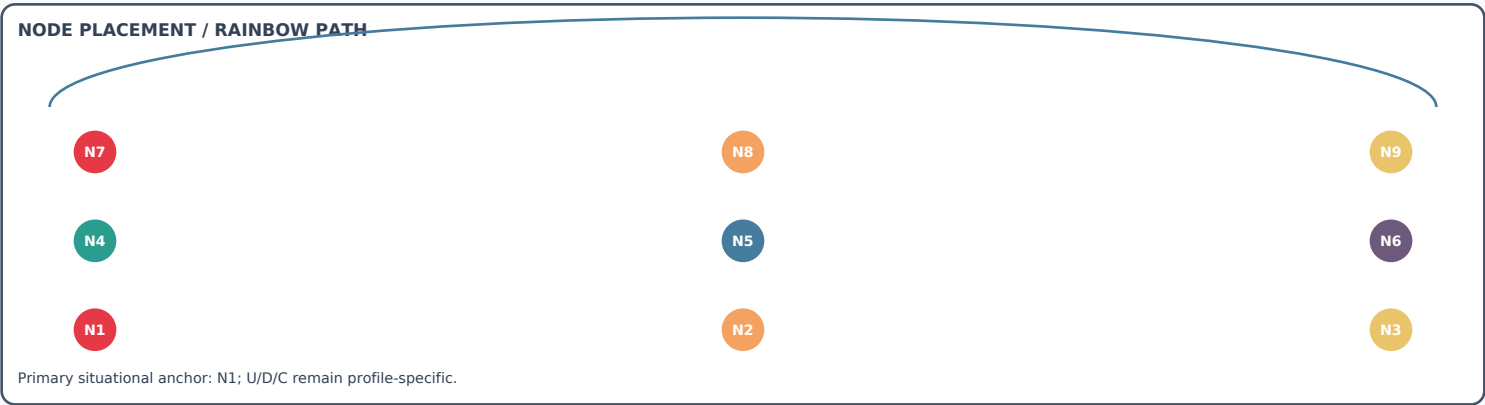
R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume06_Products_and_WhitePapers.pdf, page 25 of 66. Chapter 20 Moana Governed Browser - MOANA- BROWSER Construct Formula-specific expression Module MJ.PBMEF.Product.MOANA-BROWSER Namespace MJ.PBMEF.Product.MOANA-BROWSER.Day0 Import Manifest,productregister,applicableformulas,familyandobjectdefinitions Declaration productMOANA-BROWSER Definition Presentgovernedapplications,evidence,holds,anduncertainty. Capability Reference,simulation,implementationcandidate,orevidence

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.Chapter_20_Moana_Governed_Br
reference "PINK-07-P0025"
state R -> R1
node N1
representation JP(PINK-07-P0025)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume06_Products_and_WhitePapers.pdf, page 25 of 66. Chapter 20 Moana Governed Browser - MOANA- B
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume06_Products_and_WhitePapers.pdf, page 26 of 66. Chapter 21 Aviator Organizational Workspace - AVIATOR-WORKSPACE Construct Formula-specific expression Module MJ.PBMEF.Product.AVIATOR-WORKSPACE Namespace MJ.PBMEF.Product.AVIATOR-WORKSPACE.Day0 Import Manifest,productregister,applicableformulas,familyandobjectdefinitions Declaration productAVIATOR-WORKSPACE Definition Organizespaces,projects,decisions,knowledge,members,roles,andcapabilities. Capability Reference,simu

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> Mj bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_21_Aviator_Organizat
reference "PINK-07-P0026"
state R -> R1
node N1
representation JP(PINK-07-P0026)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume06_Products_and_WhitePapers.pdf, page 26 of 66. Chapter 21 Aviator Organizational Workspace
```

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

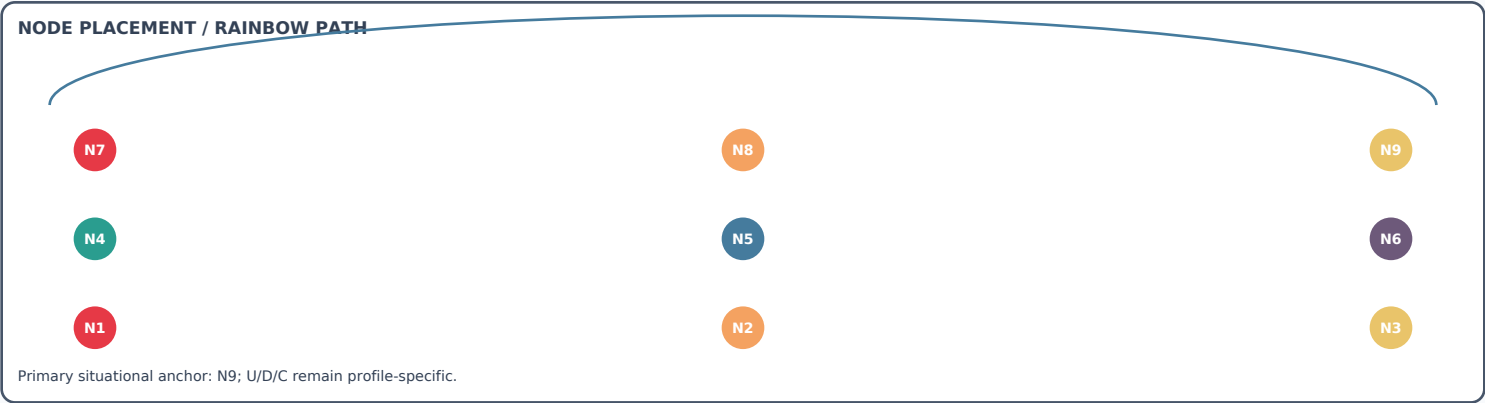
Pink source PinkPaper_Volume06_Products_and_WhitePapers.pdf, page 27 of 66. Chapter 22 Lecanto Truthful Visualization - LECANTO-VISUAL Construct Formula-specific expression Module MJ.PBMEF.Product.LECANTO-VISUAL Namespace MJ.PBMEF.Product.LECANTO-VISUAL.Day0 Import Manifest,productregister,applicableformulas,familyandobjectdefinitions Declaration productLECANTO-VISUAL Definition Displaysystemtruth,provenance,topology,uncertainty,andevidence. Capability Reference,simulation,implementationand

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

module MJ.Rainbow.Chapter_22_Lecanto_Truthful_
reference "PINK-07-P0027"
state R -> R1
node N1
representation JP(PINK-07-P0027)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
Pink source PinkPaper_Volume06_Products_and_WhitePapers.pdf, page 27 of 66. Chapter 22 Lecanto Truthful Visualization -



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume06_Products_and_WhitePapers.pdf, page 28 of 66. Chapter 23 Elsa Governed Marketplace Reference - ELSA-MARKETPLACE Construct Formula-specific expression Module MJ.PBMEF.Product.ELSA-MARKETPLACE Namespace MJ.PBMEF.Product.ELSA-MARKETPLACE.Day0 Import Manifest,productregister,applicableformulas,familyandobjectdefinitions Declaration productELSA-MARKETPLACE Definition Coordinatessemanticlistings,workflow,accounting,execution,andresourceevidencewithoutli

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_23_Elsa_Governed_Mar
reference "PINK-07-P0028"
state R -> R1
node N9
representation JP(PINK-07-P0028)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume06_Products_and_WhitePapers.pdf, page 28 of 66. Chapter 23 Elsa Governed Marketplace Referen
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume06_Products_and_WhitePapers.pdf, page 29 of 66. Chapter 24 Shekina Distributed Continuity - SHEKINA-CONTINUITY Construct Formula-specific expression Module MJ.PBMEF.Product.SHEKINA-CONTINUITY Namespace MJ.PBMEF.Product.SHEKINA-CONTINUITY.Day0 Import Manifest,productregister,applicableformulas,familyandobjectdefinitions Declaration productSHEKINA-CONTINUITY Definition Modelboundedreplicas,failover,continuity,andplacementevidence. Capability Reference,simulation,imp

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> Mj bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_24_Shekina_Distribut
reference "PINK-07-P0029"
state R -> R1
node N1
representation JP(PINK-07-P0029)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume06_Products_and_WhitePapers.pdf, page 29 of 66. Chapter 24 Shekina Distributed Continuity -
```

Node Placement / Rainbow Path

Rectangle

Cone

Sister umbrella

EVE/lake

next-cycle re-entry

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source PinkPaper_Volume06_Products_and_WhitePapers.pdf, page 30 of 66. Chapter 25 Pearl Hypothetical Simulation and Information-Retention System -PEARL- CONTAINMENT Construct Formula-specific expression Module MJ.PBMEF.Product.PEARL-CONTAINMENT Namespace MJ.PBMEF.Product.PEARL-CONTAINMENT.Day0 Import Manifest,productregister,applicableformulas,familyandobjectdefinitions Declaration productPEARL-CONTAINMENT Definition Acquire,retain,replay,andcomparevariancesimulationsandtransfer/regener

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

module MJ.Rainbow.Chapter_25_Pearl_Hypothetica
reference "PINK-07-P0030"
state R -> R1
node N1
representation JP(PINK-07-P0030)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
Pink source PinkPaper_Volume06_Products_and_WhitePapers.pdf, page 30 of 66. Chapter 25 Pearl Hypothetical Simulation and

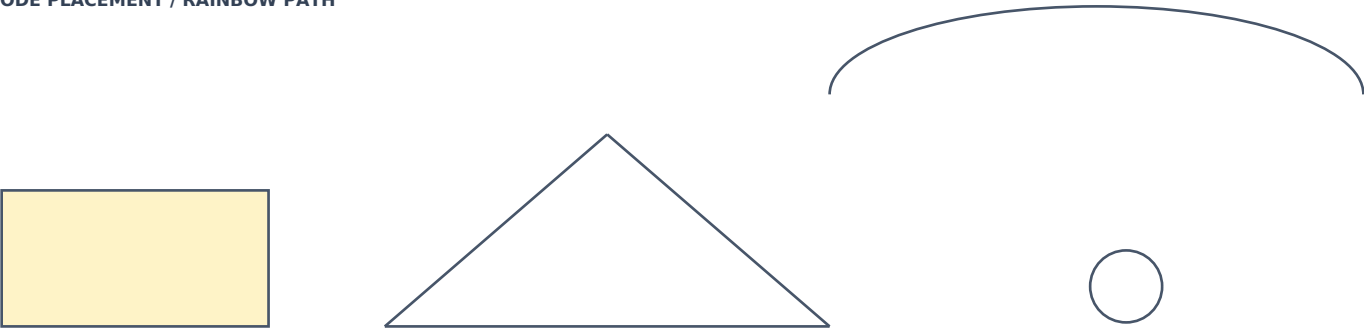
Internal reference only. No physical validation, operation authority, product certification, external effect, IP approval, or external effect. MJ.PBMEF.DAY0-R12-RAINBOW-230K-PDF-MIRROR-FINAL | RW-PINK-0826

MJos Predictive Model | First manifestation of the Bangel Language

MJ Physics Engineering | Owned and operated by Michael Bangel | Clearwater, Florida

RAINBOW | Original collection page 8610 | Terminology edition; source evidence remains historical

Node Placement / Rainbow Path



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

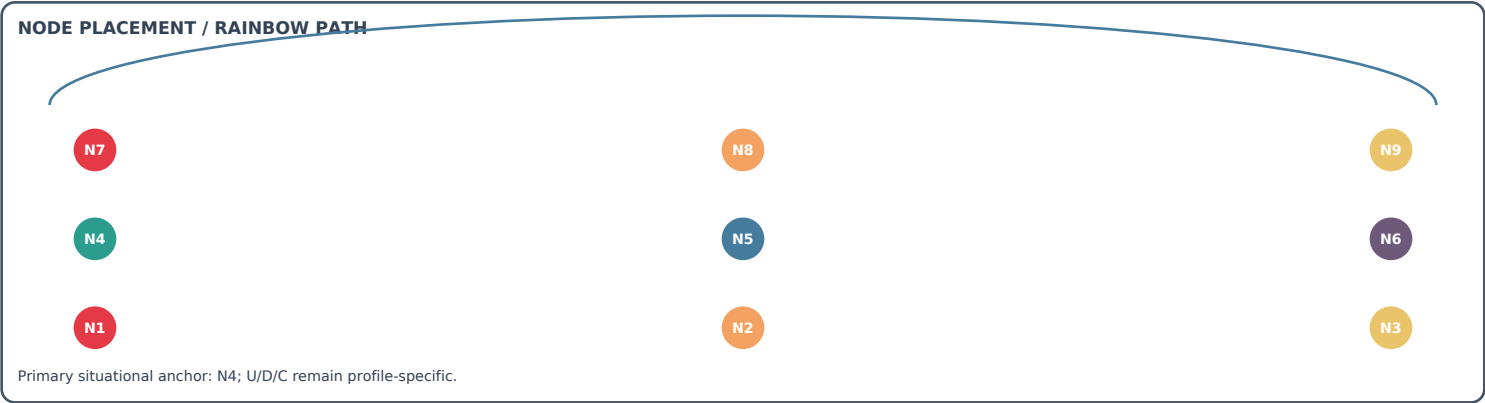
R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume06_Products_and_WhitePapers.pdf, page 31 of 66. Chapter 26 Bangel Spreadsheets - Bangel - SPREADSHEETS Construct Formula-specific expression Module MJ.PBMEF.Product.Bangel -SPREADSHEETS Namespace MJ.PBMEF.Product.Bangel -SPREADSHEETS.Day0 Import Manifest,productregister,applicableformulas,familyandobjectdefinitions Declaration productBangel -SPREADSHEETS Definition Providegovernedspreadsheet-likeoperationalmodelingthroughtypedmeasurementcells,im

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_26_Bangel _Spreadshee
reference "PINK-07-P0031"
state R -> R1
node N1
representation JP(PINK-07-P0031)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume06_Products_and_WhitePapers.pdf, page 31 of 66. Chapter 26 Bangel Spreadsheets - Bangel - SPR
```

R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume06_Products_and_WhitePapers.pdf, page 32 of 66. Chapter 27 JPOSMJ Product Portfolio Envelope - JPOSMJ-PORTFOLIO Construct Formula-specific expression Module MJ.PBMEF.Product.JPOSMJ-PORTFOLIO Namespace MJ.PBMEF.Product.JPOSMJ-PORTFOLIO.Day0 Import Manifest,productregister,applicableformulas,familyandobjectdefinitions Declaration productJPOSMJ-PORTFOLIO Definition BindeveryJP-originproductcandidatesthroughMKphysicsrepresentation,JOverification,partici

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_27_JPOSMJ_Product_Po
reference "PINK-07-P0032"
state R -> R1
node N4
representation JP(PINK-07-P0032)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume06_Products_and_WhitePapers.pdf, page 32 of 66. Chapter 27 JPOSMJ Product Portfolio Envelope
```

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

Source Rule / Intent

Pink source PinkPaper_Volume06_Products_and_WhitePapers.pdf, page 33 of 66. Chapter 28 MJ Standard Containment Geometry and Reference Gas Model - STANDARD- CONTAINMENT-GEOMETRY Construct Formula-specific expression Module MJ.PBMEF.Product.STANDARD-CONTAINMENT-GEOMETRY Namespace MJ.PBMEF.Product.STANDARD-CONTAINMENT-GEOMETRY.Day0 Import Manifest,productregister,applicableformulas,familyandobjectdefinitions Declaration productSTANDARD-CONTAINMENT-GEOMETRY Definition Provideascale-independentre

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

module MJ.Rainbow.Chapter_28_MJ_Standard_Conta
reference "PINK-07-P0033"
state R -> R1
node N1
representation JP(PINK-07-P0033)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
Pink source PinkPaper_Volume06_Products_and_WhitePapers.pdf, page 33 of 66. Chapter 28 MJ Standard Containment Geometry

NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source PinkPaper_Volume06_Products_and_WhitePapers.pdf, page 34 of 66. Chapter 29 MJ Reservoir Collection, Lake Buffer, and Spiral-Compatible Re-entry - RESERVOIR-COLLECTION-MODULATION Construct Formula-specific expression Module MJ.PBMEF.Product.RESERVOIR-COLLECTION-MODULATION Namespace MJ.PBMEF.Product.RESERVOIR-COLLECTION-MODULATION.Day0 Import Manifest,productregister,applicableformulas,familyandobjectdefinitions Declaration productRESERVOIR-COLLECTION-MODULATION Definition Modelthe

PATH OF EXPRESSION

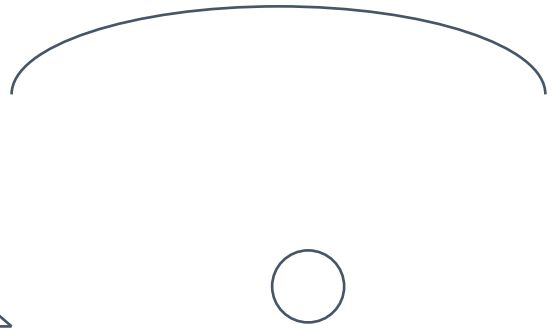
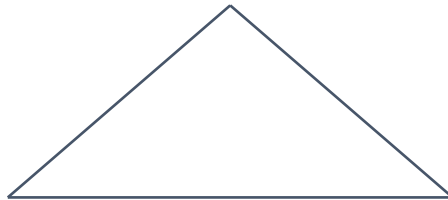
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```

module MJ.Rainbow.Chapter_29_MJ_Reservoir_Coll
reference "PINK-07-P0034"
state R -> R1
node N1
representation JP(PINK-07-P0034)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume06_Products_and_WhitePapers.pdf, page 34 of 66. Chapter 29 MJ Reservoir Collection, Lake Buf
    
```

NODE PLACEMENT / RAINBOW PATH



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

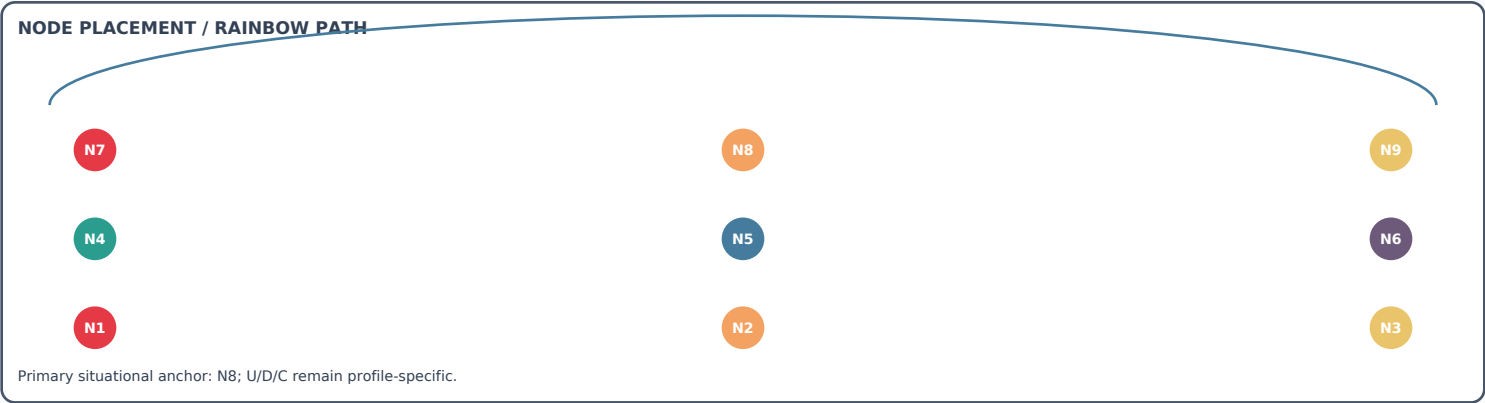
Pink source PinkPaper_Volume06_Products_and_WhitePapers.pdf, page 35 of 66. Chapter 30 Registered white-paper verification crosswalk 34

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Chapter_30_Registered_white_
reference "PINK-07-P0035"
state R -> R1
node N1
representation JP(PINK-07-P0035)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper Volume06 Products and WhitePapers.pdf, page 35 of 66. Chapter 30 Registered white-paper verificati
```



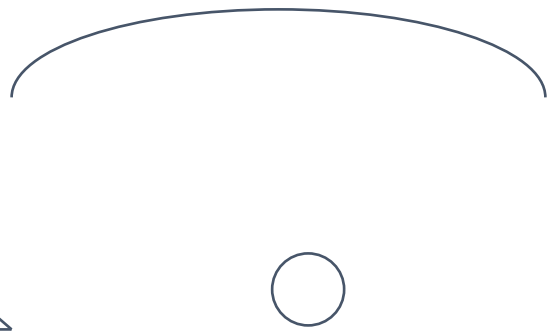
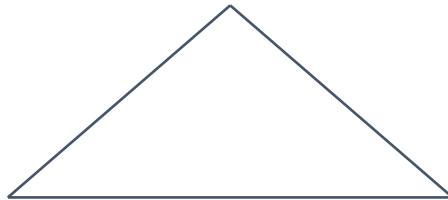
R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume06_Products_and_WhitePapers.pdf, page 36 of 66. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper VI - Products / White Papers 30.1 MJ — MJ Manifestation White Paper -MJ-PBMEF-FAMILY-WP-01 Construct Formula-specific expression Module MJ.PBMEF.WhitePaper.MJ-PBMEF-FAMILY-WP-01 Namespace MJ.PBMEF.Document.MJ-PBMEF-FAMILY-WP-01 Import whitepapers/family/01-mj.md Declaration whitepaperMJ-PBMEF-FAMILY-WP-01 Definition Projectroot,founder-governedauthorityandfinal

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> Mj bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-07-P0036"
state R -> R1
node N8
representation JP(PINK-07-P0036)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume06_Products_and_WhitePapers.pdf, page 36 of 66. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE
```

NODE PLACEMENT / RAINBOW PATH



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source PinkPaper_Volume06_Products_and_WhitePapers.pdf, page 37 of 66. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper VI - Products / White Papers 30.3 Elsa — MJ Manifestation White Paper -MJ-PBMEF-FAMILY-WP-03 Construct Formula-specific expression Module MJ.PBMEF.WhitePaper.MJ-PBMEF-FAMILY-WP-03 Namespace MJ.PBMEF.Document.MJ-PBMEF-FAMILY-WP-03 Import whitepapers/family/03-elsa.md Declaration whitepaperMJ-PBMEF-FAMILY-WP-03 Definition Deterministicsemanticrecoveryandpurpose-p

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-07-P0037"
state R -> R1
node N1
representation JP(PINK-07-P0037)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume06_Products_and_WhitePapers.pdf, page 37 of 66. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDAT
```

Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Pink source PinkPaper_Volume06_Products_and_WhitePapers.pdf, page 38 of 66. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper VI - Products / White Papers 30.5 Mika / MK — MJ Manifestation White Paper -MJ-PBMEF-FAMILY- WP-05 Construct Formula-specific expression Module MJ.PBMEF.WhitePaper.MJ-PBMEF-FAMILY-WP-05 Namespace MJ.PBMEF.Document.MJ-PBMEF-FAMILY-WP-05 Import whitepapers/family/05-mk.md Declaration whitepaperMJ-PBMEF-FAMILY-WP-05 Definition PhysicsModulatorSystemfordimensional,

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

```

module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-07-P0038"
state R -> R1
node N1
representation JP(PINK-07-P0038)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper Volume06 Products and WhitePapers.pdf, page 38 of 66. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDAT

```

Node Placement / Rainbow Path



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume06_Products_and_WhitePapers.pdf, page 39 of 66. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper VI - Products / White Papers 30.7 MJOS — MJ Manifestation White Paper -MJ-PBMEF-FAMILY-WP-07 Construct Formula-specific expression Module MJ.PBMEF.WhitePaper.MJ-PBMEF-FAMILY-WP-07 Namespace MJ.PBMEF.Document.MJ-PBMEF-FAMILY-WP-07 Import whitepapers/family/07-mjos.md Declaration whitepaperMJ-PBMEF-FAMILY-WP-07 Definition Operating-systemandinfrastructuresubstrat

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-07-P0039"
state R -> R1
node N1
representation JP(PINK-07-P0039)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume06_Products_and_WhitePapers.pdf, page 39 of 66. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE
```


Node Placement / Rainbow Path



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source PinkPaper_Volume06_Products_and_WhitePapers.pdf, page 40 of 66. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper VI - Products / White Papers 30.9 Bellatrix — MJ Manifestation White Paper -MJ-PBMEF-FAMILY-WP- 09 Construct Formula-specific expression Module MJ.PBMEF.WhitePaper.MJ-PBMEF-FAMILY-WP-09 Namespace MJ.PBMEF.Document.MJ-PBMEF-FAMILY-WP-09 Import whitepapers/family/09-bellatrix.md Declaration whitepaperMJ-PBMEF-FAMILY-WP-09 Definition Independentdefense,challenge,q

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-07-P0040"
state R -> R1
node N3
representation JP(PINK-07-P0040)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume06_Products_and_WhitePapers.pdf, page 40 of 66. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDAT
```

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source PinkPaper_Volume06_Products_and_WhitePapers.pdf, page 41 of 66. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper VI - Products / White Papers 30.11 EVE — MJ Manifestation White Paper -MJ-PBMEF-FAMILY-WP-11 Construct Formula-specific expression Module MJ.PBMEF.WhitePaper.MJ-PBMEF-FAMILY-WP-11 Namespace MJ.PBMEF.Document.MJ-PBMEF-FAMILY-WP-11 Import whitepapers/family/11-eve.md Declaration whitepaperMJ-PBMEF-FAMILY-WP-11 Definition Variance,evaporativeeffect,screencapture,l

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-07-P0041"
state R -> R1
node N1
representation JP(PINK-07-P0041)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
Pink source PinkPaper_Volume06_Products_and_WhitePapers.pdf, page 41 of 66. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDAT



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume06_Products_and_WhitePapers.pdf, page 42 of 66. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper VI - Products / White Papers 30.13 Mermaid — MJ Manifestation White Paper -MJ-PBMEF-FAMILY- WP-13 Construct Formula-specific expression Module MJ.PBMEF.WhitePaper.MJ-PBMEF-FAMILY-WP-13 Namespace MJ.PBMEF.Document.MJ-PBMEF-FAMILY-WP-13 Import whitepapers/family/13-mermaid.md Declaration whitepaperMJ-PBMEF-FAMILY-WP-13 Definition Accounting,reconciliation,exposur

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> Mj bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-07-P0042"
state R -> R1
node N1
representation JP(PINK-07-P0042)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume06_Products_and_WhitePapers.pdf, page 42 of 66. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume06_Products_and_WhitePapers.pdf, page 43 of 66. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper VI - Products / White Papers 30.15 Shekina — MJ Manifestation White Paper -MJ-PBMEF-FAMILY- WP-15 Construct Formula-specific expression Module MJ.PBMEF.WhitePaper.MJ-PBMEF-FAMILY-WP-15 Namespace MJ.PBMEF.Document.MJ-PBMEF-FAMILY-WP-15 Import whitepapers/family/15-shekina.md Declaration whitepaperMJ-PBMEF-FAMILY-WP-15 Definition Distributedplacement,replication,

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> Mj bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-07-P0043"
state R -> R1
node N1
representation JP(PINK-07-P0043)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume06_Products_and_WhitePapers.pdf, page 43 of 66. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDAT
```

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source PinkPaper_Volume06_Products_and_WhitePapers.pdf, page 44 of 66. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper VI - Products / White Papers 30.17 Lecanto — MJ Manifestation White Paper -MJ-PBMEF-FAMILY- WP-17 Construct Formula-specific expression Module MJ.PBMEF.WhitePaper.MJ-PBMEF-FAMILY-WP-17 Namespace MJ.PBMEF.Document.MJ-PBMEF-FAMILY-WP-17 Import whitepapers/family/17-lecanto.md Declaration whitepaperMJ-PBMEF-FAMILY-WP-17 Definition Truthfulgovernedvisualizationofst

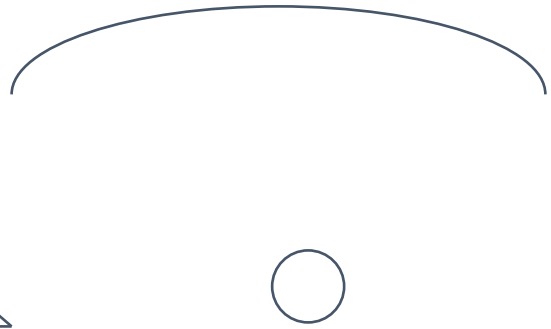
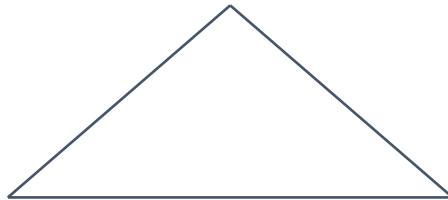
PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-07-P0044"
state R -> R1
node N7
representation JP(PINK-07-P0044)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
Pink source PinkPaper_Volume06_Products_and_WhitePapers.pdf, page 44 of 66. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDAT

NODE PLACEMENT / RAINBOW PATH



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source PinkPaper_Volume06_Products_and_WhitePapers.pdf, page 45 of 66. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper VI - Products / White Papers 30.19 Aviator — MJ Manifestation White Paper -MJ-PBMEF-FAMILY-WP- 19 Construct Formula-specific expression Module MJ.PBMEF.WhitePaper.MJ-PBMEF-FAMILY-WP-19 Namespace MJ.PBMEF.Document.MJ-PBMEF-FAMILY-WP-19 Import whitepapers/family/19-aviator.md Declaration whitepaperMJ-PBMEF-FAMILY-WP-19 Definition Organizationalworkspace,projects,

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-07-P0045"
state R -> R1
node N1
representation JP(PINK-07-P0045)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper.Volume06 Products and WhitePapers.pdf, page 45 of 66. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDAT
```

NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source PinkPaper_Volume06_Products_and_WhitePapers.pdf, page 46 of 66. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper VI - Products / White Papers 30.21 WATER — MJ Manifestation White Paper -MJ-PBMEF-FAMILY-WP- 21 Construct Formula-specific expression Module MJ.PBMEF.WhitePaper.MJ-PBMEF-FAMILY-WP-21 Namespace MJ.PBMEF.Document.MJ-PBMEF-FAMILY-WP-21 Import whitepapers/family/21-water.md Declaration whitepaperMJ-PBMEF-FAMILY-WP-21 Definition Intervaluncertainty,verifiedfloor,and

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-07-P0046"
state R -> R1
node N1
representation JP(PINK-07-P0046)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume06_Products_and_WhitePapers.pdf, page 46 of 66. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDAT
```

Node Placement / Rainbow Path

R

R1

N1

U

D

C

OUT

Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source PinkPaper_Volume06_Products_and_WhitePapers.pdf, page 47 of 66. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper VI - Products / White Papers 30.23 Bangel Governed Measurement Language -MJ-PBMEF-PRODUCT- WP-02 Construct Formula-specific expression Module MJ.PBMEF.WhitePaper.MJ-PBMEF-PRODUCT-WP-02 Namespace MJ.PBMEF.Document.MJ-PBMEF-PRODUCT-WP-02 Import whitepapers/products/02-Bangel-language.md Declaration whitepaperMJ-PBMEF-PRODUCT-WP-02 Definition Expressshumanpurpose,t

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-07-P0047"
state R -> R1
node N1
representation JP(PINK-07-P0047)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
Pink source PinkPaper_Volume06_Products_and_WhitePapers.pdf, page 47 of 66. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDAT

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

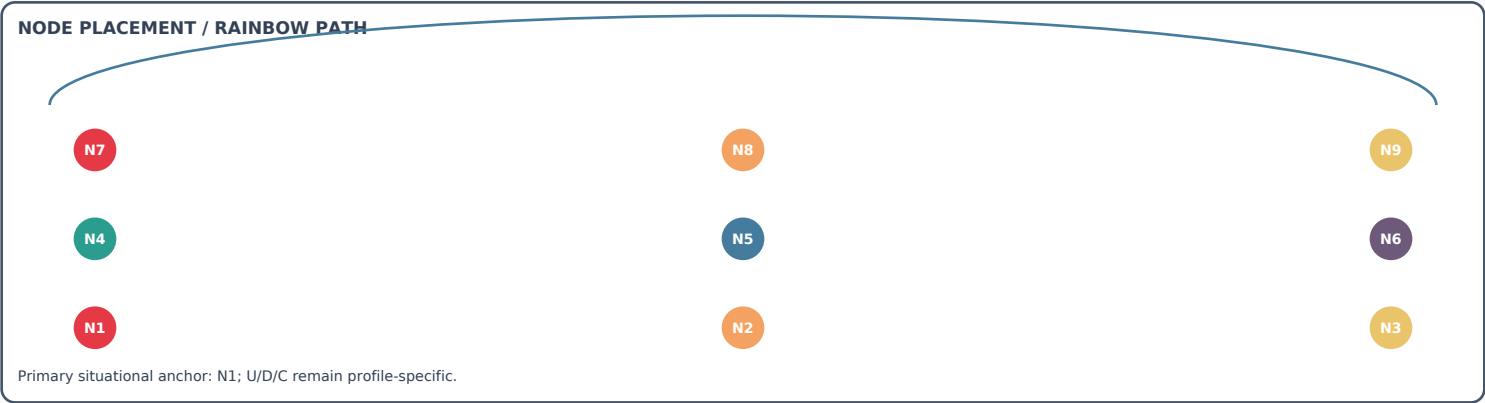
Pink source PinkPaper_Volume06_Products_and_WhitePapers.pdf, page 48 of 66. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper VI - Products / White Papers 30.25 JP Mathematical and Architectural Canon -MJ-PBMEF-PRODUCT- WP-04 Construct Formula-specific expression Module MJ.PBMEF.WhitePaper.MJ-PBMEF-PRODUCT-WP-04 Namespace MJ.PBMEF.Document.MJ-PBMEF-PRODUCT-WP-04 Import whitepapers/products/04-jp-canon.md Declaration whitepaperMJ-PBMEF-PRODUCT-WP-04 Definition Representequations,algori

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-07-P0048"
state R -> R1
node N2
representation JP(PINK-07-P0048)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
Pink source PinkPaper_Volume06_Products_and_WhitePapers.pdf, page 48 of 66. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDAT



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume06_Products_and_WhitePapers.pdf, page 49 of 66. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper VI - Products / White Papers 30.27 JO Deterministic Proof and Runtime -MJ-PBMEF-PRODUCT-WP-06 Construct Formula-specific expression Module MJ.PBMEF.WhitePaper.MJ-PBMEF-PRODUCT-WP-06 Namespace MJ.PBMEF.Document.MJ-PBMEF-PRODUCT-WP-06 Import whitepapers/products/06-jo-runtime.md Declaration whitepaperMJ-PBMEF-PRODUCT-WP-06 Definition Verifytypes,units,authority,p

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> Mj bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-07-P0049"
state R -> R1
node N1
representation JP(PINK-07-P0049)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume06_Products_and_WhitePapers.pdf, page 49 of 66. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE
```

DE PLACEMENT / RAINBOW PATH

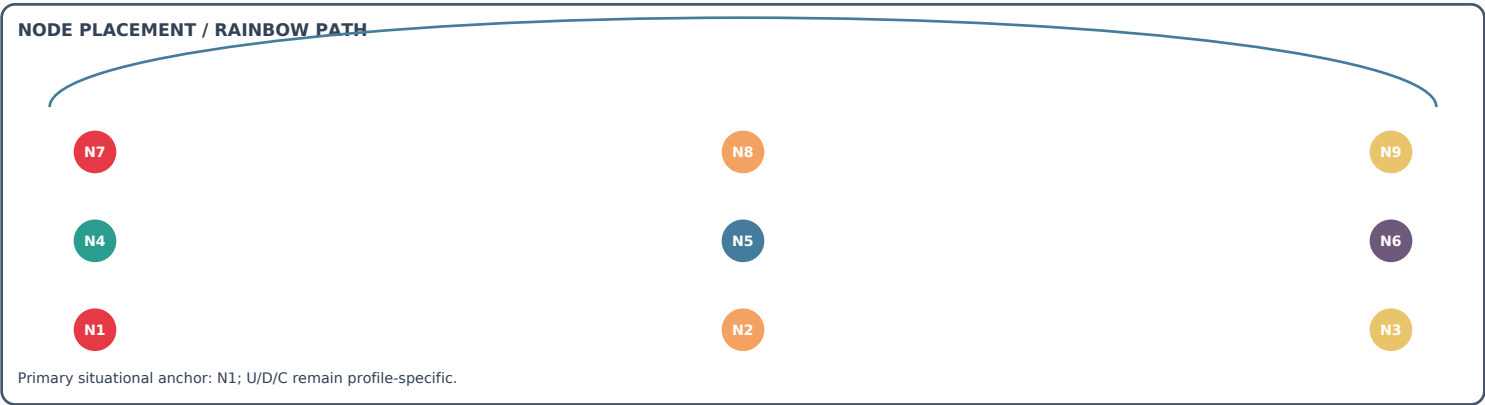


R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Pink source PinkPaper_Volume06_Products_and_WhitePapers.pdf, page 50 of 66. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper VI - Products / White Papers 30.29 JP Semiconductor Phone Battery and OS Candidate -MJ-PBMEF- PRODUCT-WP-08 Construct Formula-specific expression Module MJ.PBMEF.WhitePaper.MJ.PBMEF-PRODUCT-WP-08 Namespace MJ.PBMEF.Document.MJ-PBMEF-PRODUCT-WP-08 Import whitepapers/products/08-jp-sc-phone.md Declaration whitepaperMJ-PBMEF-PRODUCT-WP-08 Definition Exploresemicon

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-07-P0050"
state R -> R1
node N1
representation JP(PINK-07-P0050)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper Volume06 Products and WhitePapers.pdf, page 50 of 66. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDAT
```

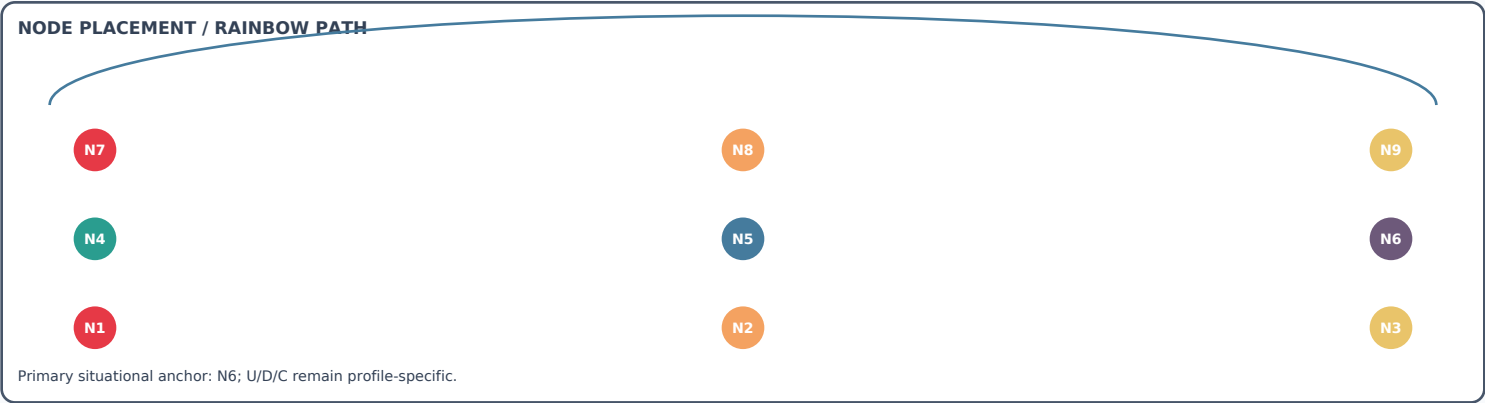


R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume06_Products_and_WhitePapers.pdf, page 51 of 66. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper VI - Products / White Papers 30.31 JP Peaceful High-Energy Propulsion Research Candidate -MJ- PBMEF-PRODUCT-WP-10 Construct Formula-specific expression Module MJ.PBMEF.WhitePaper.MJ-PBMEF-PRODUCT-WP-10 Namespace MJ.PBMEF.Document.MJ-PBMEF-PRODUCT-WP-10 Import whitepapers/products/10-jp-peaceful-propulsion.md Declaration whitepaperMJ-PBMEF-PRODUCT-WP-10 Definiti

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> Mj bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-07-P0051"
state R -> R1
node N1
representation JP(PINK-07-P0051)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume06_Products_and_WhitePapers.pdf, page 51 of 66. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDAT
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume06_Products_and_WhitePapers.pdf, page 52 of 66. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper VI - Products / White Papers 30.33 EVE Variance Screen and Egress Accounting - MJ-PBMEF- PRODUCT-WP-12 Construct Formula-specific expression Module MJ.PBMEF.WhitePaper.MJ-PBMEF-PRODUCT-WP-12 Namespace MJ.PBMEF.Document.MJ-PBMEF-PRODUCT-WP-12 Import whitepapers/products/12-eve-screen.md Declaration whitepaperMJ-PBMEF-PRODUCT-WP-12 Definition Accountforvariance,e

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> Mj bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-07-P0052"
state R -> R1
node N6
representation JP(PINK-07-P0052)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume06_Products_and_WhitePapers.pdf, page 52 of 66. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume06_Products_and_WhitePapers.pdf, page 53 of 66. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper VI - Products / White Papers 30.35 Mermaid Accounting and Reconciliation System -MJ-PBMEF- PRODUCT-WP-14 Construct Formula-specific expression Module MJ.PBMEF.WhitePaper.MJ-PBMEF-PRODUCT-WP-14 Namespace MJ.PBMEF.Document.MJ-PBMEF-PRODUCT-WP-14 Import whitepapers/products/14-mermaid-recon.md Declaration whitepaperMJ-PBMEF-PRODUCT-WP-14 Definition Maintainbalance

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-07-P0053"
state R -> R1
node N1
representation JP(PINK-07-P0053)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume06_Products_and_WhitePapers.pdf, page 53 of 66. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDAT
```

R STATUS / OBSERVATION

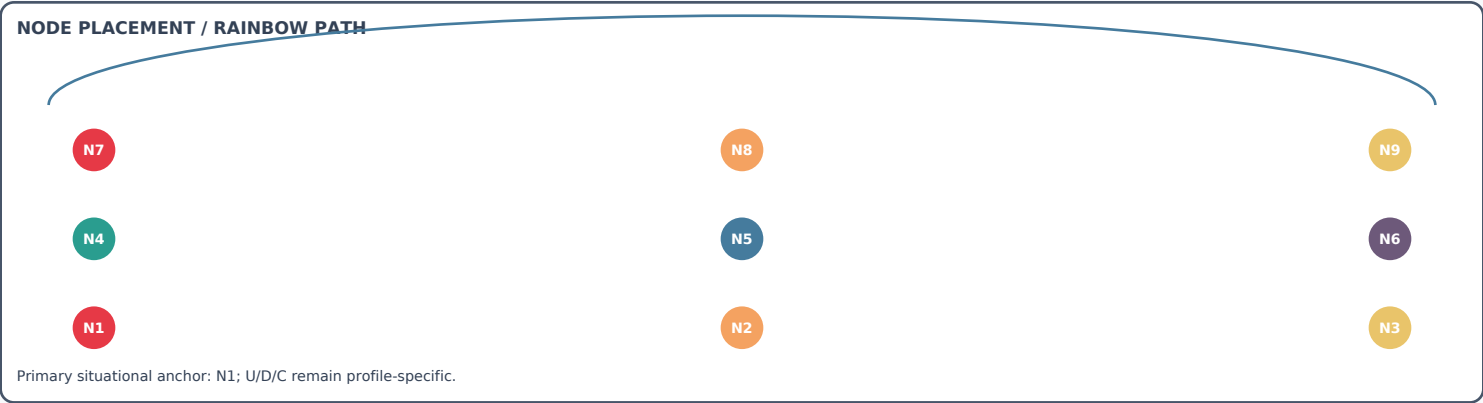
SOURCE RULE / INTENT

PATH OF EXPRESSION

CODE / MATH / PROCESS REPRESENTATION

Internal reference only. No physical validation, operation authority, product certification, external effect, IP approval, or eMMC approval.

MCPM50-AYO-R12-RAINBOW-230K-PDF-MIRROR-FINAL | RW-PINK-0850

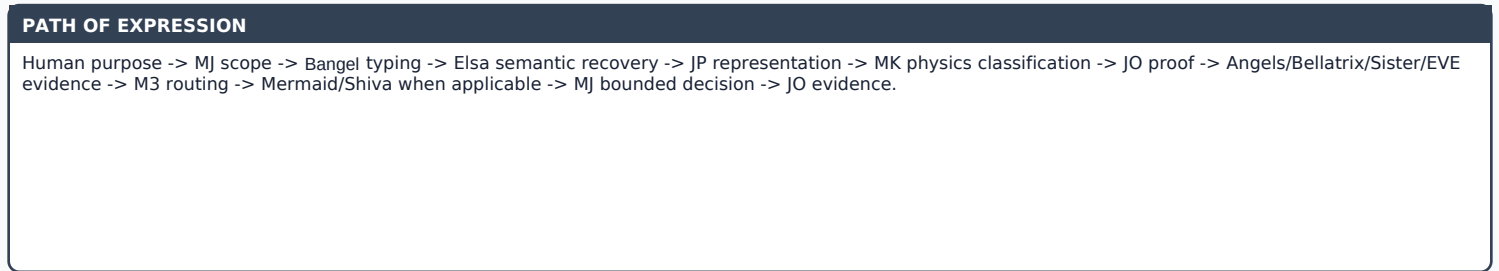
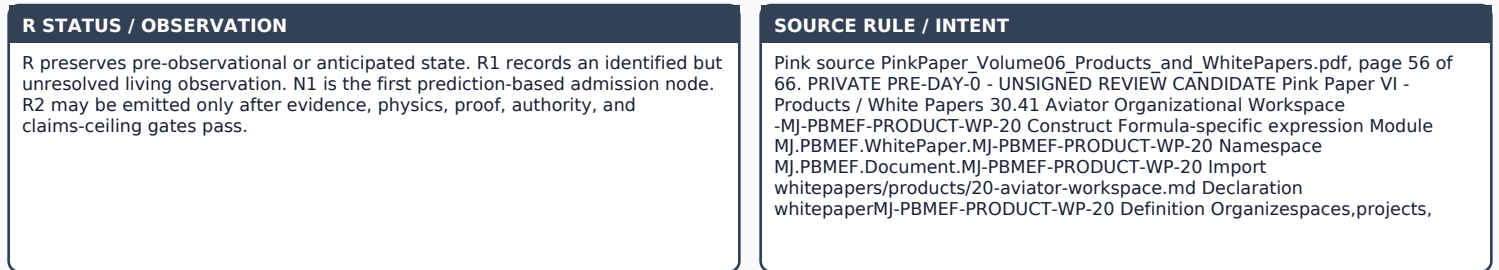


R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source PinkPaper_Volume06_Products_and_WhitePapers.pdf, page 55 of 66. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper VI - Products / White Papers 30.39 Shiva Exchange Rule Reference -MJ-PBMEF-PRODUCT-WP-18 Construct Formula-specific expression Module MJ.PBMEF.WhitePaper.MJ-PBMEF-PRODUCT-WP-18 Namespace MJ.PBMEF.Document.MJ-PBMEF-PRODUCT-WP-18 Import whitepapers/products/18-shiva-exchange.md Declaration whitepaperMJ-PBMEF-PRODUCT-WP-18 Definition Modeltransparentprice-time,cus

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

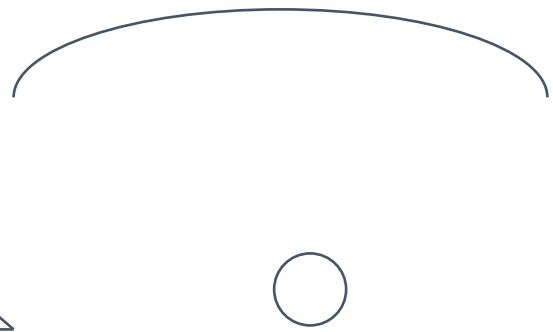
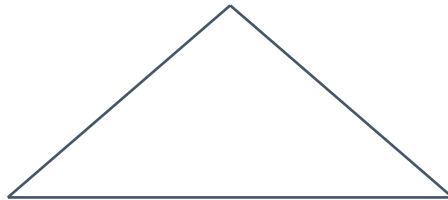
```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-07-P0055"
state R -> R1
node N1
representation JP(PINK-07-P0055)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume06_Products_and_WhitePapers.pdf, page 55 of 66. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDAT
```

```
CODE / MATH / PROCESS REPRESENTATION

module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-07-P0056"
state R -> R1
node N1
representation JP(PINK-07-P0056)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume06_Products_and_WhitePapers.pdf, page 56 of 66. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDAT
```

NODE PLACEMENT / RAINBOW PATH



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source PinkPaper_Volume06_Products_and_WhitePapers.pdf, page 57 of 66. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper VI - Products / White Papers 30.43 Elsa Governed Marketplace Reference -MJ-PBMEF-PRODUCT-WP- 22 Construct Formula-specific expression Module MJ.PBMEF.WhitePaper.MJ.PBMEF-PRODUCT-WP-22 Namespace MJ.PBMEF.Document.MJ-PBMEF-PRODUCT-WP-22 Import whitepapers/products/22-elsa-marketplace.md Declaration whitepaperMJ-PBMEF-PRODUCT-WP-22 Definition Coordinatessemanticlis

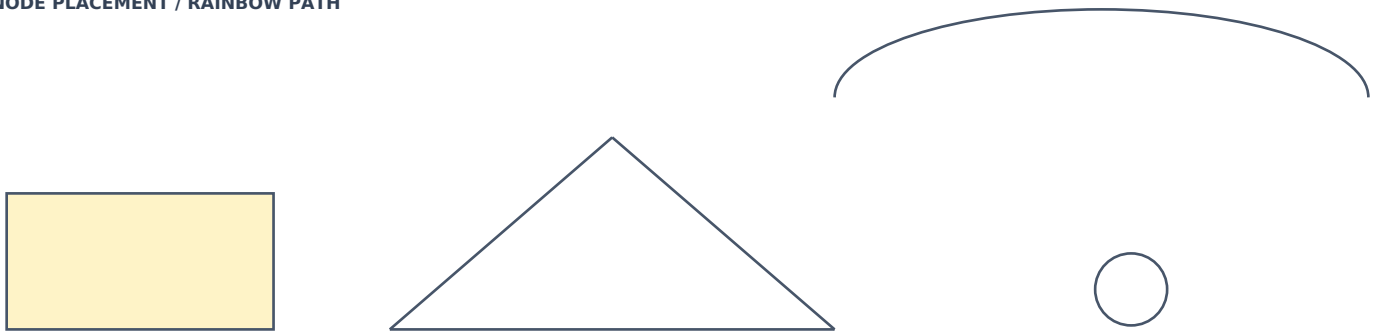
PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-07-P0057"
state R -> R1
node N1
representation JP(PINK-07-P0057)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume06_Products_and_WhitePapers.pdf, page 57 of 66. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDAT
```

NODE PLACEMENT / RAINBOW PATH



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source PinkPaper_Volume06_Products_and_WhitePapers.pdf, page 58 of 66. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper VI - Products / White Papers 30.45 Pearl Hypothetical Simulation and Information-Retention Sys- tem -MJ-PBMEF-PRODUCT-WP-24 Construct Formula-specific expression Module
MJ.PBMEF.WhitePaper.MJ-PBMEF-PRODUCT-WP-24 Namespace
MJ.PBMEF.Document.MJ-PBMEF-PRODUCT-WP-24 Import
whitepapers/products/24-pearl-containment.md Declaration
whitepaperMJ-PBMEF-PRODUCT-WP-24 Def

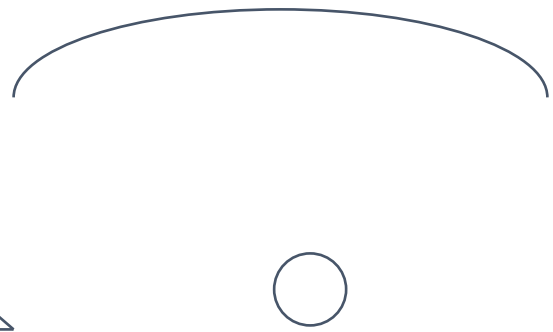
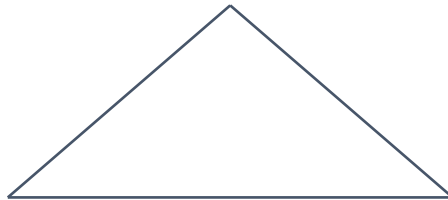
PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-07-P0058"
state R -> R1
node N1
representation JP(PINK-07-P0058)
physics MK(classify, units, boundary, uncertainty)
verify JO(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper.Vol06.Products.and.WhitePapers.pdf, page 58 of 66. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDAT
```

NODE PLACEMENT / RAINBOW PATH



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source PinkPaper_Volume06_Products_and_WhitePapers.pdf, page 59 of 66. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper VI - Products / White Papers 30.47 JPMSJ Product Portfolio Envelope -MJ-PBMEF-PRODUCT-WP-26 Construct Formula-specific expression Module MJ.PBMEF.WhitePaper.MJ-PBMEF-PRODUCT-WP-26 Namespace MJ.PBMEF.Document.MJ-PBMEF-PRODUCT-WP-26 Import whitepapers/products/26-jpmsj-product-portfolio.md Declaration whitepaperMJ-PBMEF-PRODUCT-WP-26 Definition GiveeveryJP-origenproduc

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-07-P0059"
state R -> R1
node N1
representation JP(PINK-07-P0059)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper.Vol06.Products.and.WhitePapers.pdf, page 59 of 66. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDAT
```

Node Placement / Rainbow Path



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

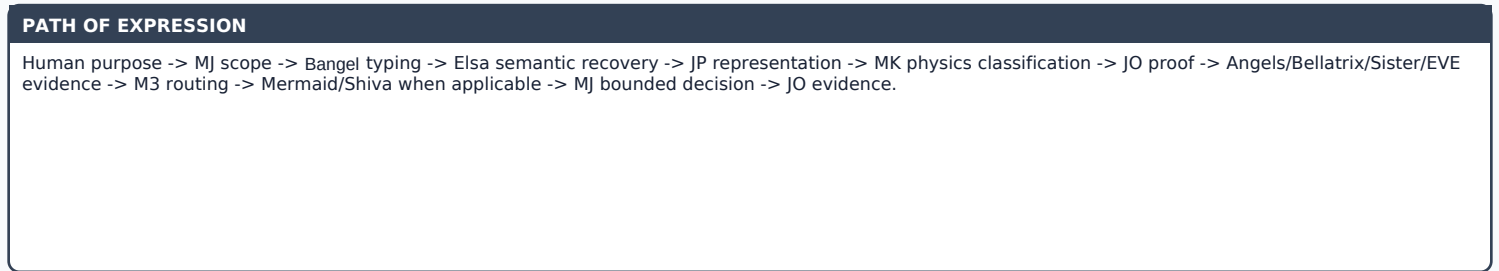
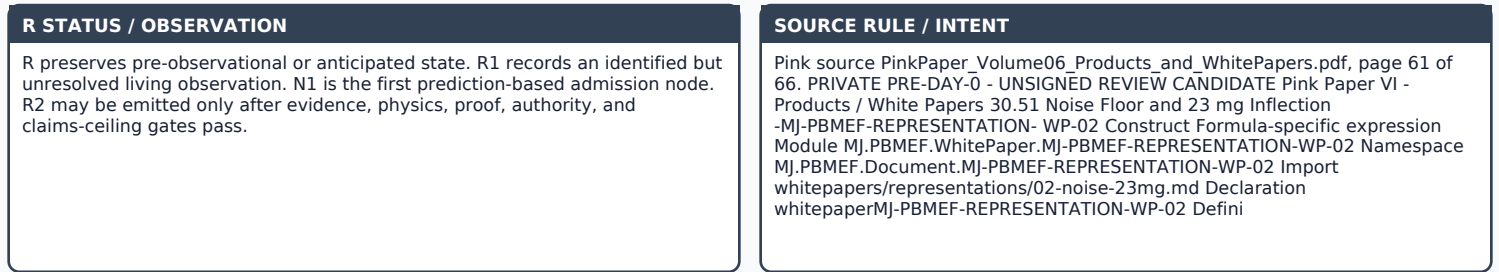
Pink source PinkPaper_Volume06_Products_and_WhitePapers.pdf, page 60 of 66. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper VI - Products / White Papers 30.49 MJ Reservoir Collection Modulation and Return Loop -MJ- PBMEF-PRODUCT-WP-28 Construct Formula-specific expression Module MJ.PBMEF.WhitePaper.MJ-PBMEF-PRODUCT-WP-28 Namespace MJ.PBMEF.Document.MJ-PBMEF-PRODUCT-WP-28 Import whitepapers/products/28-reservoir-collection-modulation.md Declaration whitepaperMJ-PBMEF-PRODUCT-WP-28 De

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-07-P0060"
state R -> R1
node N5
representation JP(PINK-07-P0060)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
Pink source PinkPaper_Volume06_Products_and_WhitePapers.pdf, page 60 of 66. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE



```
CODE / MATH / PROCESS REPRESENTATION

module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-07-P0061"
state R -> R1
node N1
representation JP(PINK-07-P0061)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume06_Products_and_WhitePapers.pdf, page 61 of 66. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDAT
```

Node Placement / Rainbow Path



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source PinkPaper_Volume06_Products_and_WhitePapers.pdf, page 62 of 66. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper VI - Products / White Papers 30.53 Memory, Request Occultation, and Generational Handoff -MJ- PBMEF-REPRESENTATION-WP-04 Construct Formula-specific expression Module MJ.PBMEF.WhitePaper.MJ-PBMEF-REPRESENTATION-WP-04 Namespace MJ.PBMEF.Document.MJ-PBMEF-REPRESENTATION-WP-04 Import whitepapers/representations/04-memory-handoff.md Declaration whitepaperMJ-PBMEF-RE

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-07-P0062"
state R -> R1
node N1
representation JP(PINK-07-P0062)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume06_Products_and_WhitePapers.pdf, page 62 of 66. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE
```

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source PinkPaper_Volume06_Products_and_WhitePapers.pdf, page 63 of 66. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper VI - Products / White Papers 30.55 EVE Variance, Screen, Evaporation, and Egress -MJ-PBMEF- REPRESENTATION-WP-06 Construct Formula-specific expression Module MJ.PBMEF.WhitePaper.MJ-PBMEF-REPRESENTATION-WP-06 Namespace MJ.PBMEF.Document.MJ-PBMEF-REPRESENTATION-WP-06 Import whitepapers/representations/06-eve-egress.md Declaration whitepaperMJ-PBMEF-REPRESENTATION

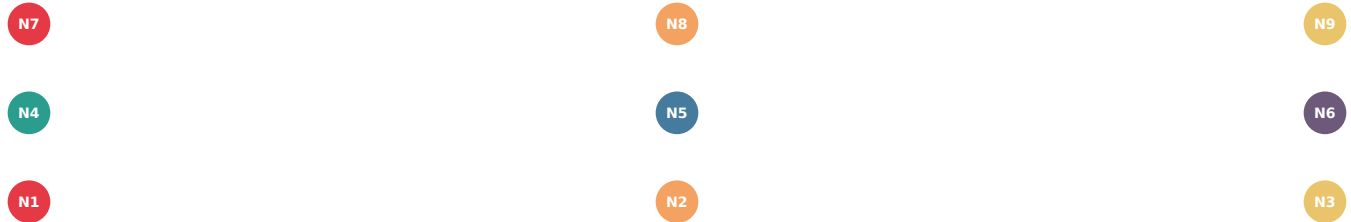
PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-07-P0063"
state R -> R1
node N1
representation JP(PINK-07-P0063)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
Pink source PinkPaper_Volume06_Products_and_WhitePapers.pdf, page 63 of 66. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE

DE PLACEMENT / RAINBOW PATH



Primary situational anchor: N9; U/D/C remain profile-specific.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source PinkPaper_Volume06_Products_and_WhitePapers.pdf, page 64 of 66. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper VI - Products / White Papers 30.57 Passkey, Claims Ceiling, and Repository Authentication -MJ- PBMEF-REPRESENTATION-WP-08 Construct Formula-specific expression Module MJ.PBMEF.WhitePaper.MJ-PBMEF-REPRESENTATION-WP-08 Namespace MJ.PBMEF.Document.MJ-PBMEF-REPRESENTATION-WP-08 Import whitepapers/representations/08-passkey.md Declaration whitepaperMJ-PBMEF-REPRESENTATION

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-07-P0064"
state R -> R1
node N9
representation JP(PINK-07-P0064)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper Volume06 Products and WhitePapers.pdf, page 64 of 66. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDAT
```

```

graph LR
    R((R)) --- R1((R1))
    R1 --- N1((N1))
    N1 --- U((U))
    U --- D((D))
    D --- C((C))
    C --- OUT((OUT))
  
```

R STATUS / OBSERVATION

SOURCE RULE / INTENT

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-07-P0065"
state R -> R1
node N1
representation JP(PINK-07-P0065)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper.Volume06 Products and WhitePapers.pdf, page 65 of 66. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDAT
```

Node Placement / Rainbow Path



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source PinkPaper_Volume06_Products_and_WhitePapers.pdf, page 66 of 66. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE Pink Paper VI - Products / White Papers 30.61 Reservoir Return Loop Physics Representation - MJ-PBMEF- REPRESENTATION-WP-12 Construct Formula-specific expression Module MJ.PBMEF.WhitePaper.MJ-PBMEF-REPRESENTATION-WP-12 Namespace MJ.PBMEF.Document.MJ-PBMEF-REPRESENTATION-WP-12 Import whitepapers/representations/12-reservoir-return-loop.md Declaration whitepaperMJ-PBMEF-REP

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.PRIVATE_PRE_DAY_0_UNSIGNED_R
reference "PINK-07-P0066"
state R -> R1
node N1
representation JP(PINK-07-P0066)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source PinkPaper_Volume06_Products_and_WhitePapers.pdf, page 66 of 66. PRIVATE PRE-DAY-0 - UNSIGNED REVIEW CANDIDATE
```

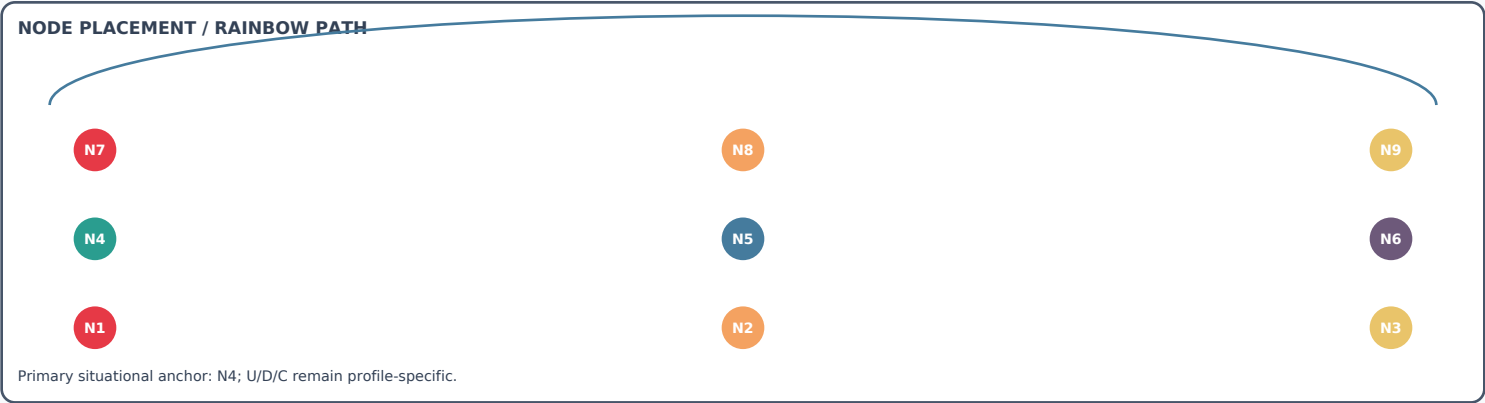


R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_R11_23000_Test_and_Simulation_Results.pdf, page 1 of 24. PINK-TEST-001 Day-Zero Validation and Simulation Results MJ-PBMEF-DAY0-R11-COLOR-PAPERS-180K-FINAL 23,000 deterministic reference scenarios plus preserved predecessor suites RESULT 23,000 executed / 23,000 pass / 0 fail / 0 hold across 23 categories. Results root: c8097cc9f291a10379b07c4a146fb736e136a79ee2b8c985c2fa156fbf750912 MEANING The scenarios verify reference software, numeric guards, formulas, states, manifes

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> Mj bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PINK_TEST_001_Day_Zero_Valid
reference "PINK-08-P0001"
state R -> R1
node N1
representation JP(PINK-08-P0001)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_R11_23000_Test_and_Simulation_Results.pdf, page 1 of 24. PINK-TEST-001 Day-Zero Validati
```



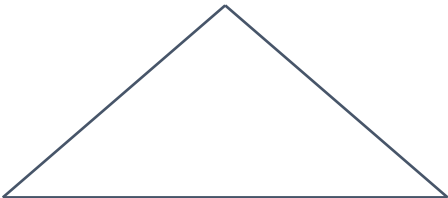
R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_R11_23000_Test_and_Simulation_Results.pdf, page 2 of 24. PINK-TEST-01 Angels Ethics MJ-PBMEF-DAY0-R11-COLOR-PAPERS-180K-FINAL 1,000 deterministic scenarios all passed DISCOVERY PATH Source category ANGELS_ETHICS -> deterministic inputs -> governed reference function or manifest predicate -> expected state -> actual state -> JSONL receipt -> summary root -> passkey validation annex. WHAT WAS TESTED Non-weaponization and safety gate outcomes. WHAT THE PASS PROVES The teste

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PINK_TEST_01_Angels_Ethics_M
reference "PINK-08-P0002"
state R -> R1
node N4
representation JP(PINK-08-P0002)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_R11_23000_Test_and_Simulation_Results.pdf, page 2 of 24. PINK-TEST-01 Angels Ethics MJ-P
```

Node Placement / Rainbow Path



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source
MJ_PBMEF_Pink_Paper_R11_23000_Test_and_Simulation_Results.pdf, page 3 of 24. PINK-TEST-02 Ceremony MJ-PBMEF-DAY0-R11-COLOR-PAPERS-180K-FINAL 1,000 deterministic scenarios | all passed DISCOVERY PATH Source category CEREMONY -> deterministic inputs -> governed reference function or manifest predicate -> expected state -> actual state -> JSONL receipt -> summary root -> passkey validation annex. WHAT WAS TESTED Authority graph, claims ceiling, and passkey preconditions. WHAT THE PASS PROVES The

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PINK_TEST_02_Ceremony_MJ_PBM
reference "PINK-08-P0003"
state R -> R1
node N1
representation JP(PINK-08-P0003)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_R11_23000_Test_and_Simulation_Results.pdf, page 3 of 24. PINK-TEST-02 Ceremony MJ-PBMEF-
```

Node Placement / Rainbow Path



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

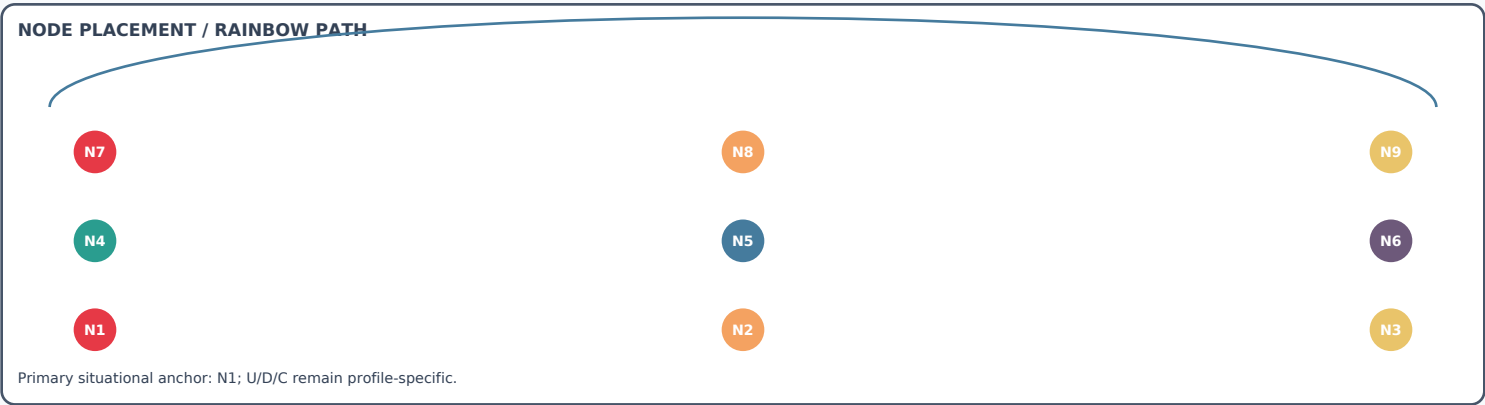
Pink source
MJ_PBMEF_Pink_Paper_R11_23000_Test_and_Simulation_Results.pdf, page 4 of 24. PINK-TEST-03 Containment
MJ-PBMEF-DAY0-R11-COLOR-PAPERS-180K-FINAL 1,000 deterministic scenarios | all passed DISCOVERY PATH Source category CONTAINMENT -> deterministic inputs -> governed reference function or manifest predicate -> expected state -> actual state -> JSONL receipt -> summary root -> passkey validation annex. WHAT WAS TESTED Scale-independent rectangle/cone ratios and reference geometry. WHAT THE PASS

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.PINK_TEST_03_Containment_MJ_
reference "PINK-08-P0004"
state R -> R1
node N1
representation JP(PINK-08-P0004)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_R11_23000_Test_and_Simulation_Results.pdf, page 4 of 24. PINK-TEST-03 Containment MJ-PBM
```



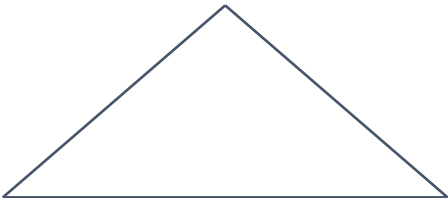
R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_R11_23000_Test_and_Simulation_Results.pdf, page 5 of 24. PINK-TEST-04 Covariance MJ-PBMEF-DAY0-R11-COLOR-PAPERS-180K-FINAL 1,000 deterministic scenarios all passed DISCOVERY PATH Source category COVARIANCE -> deterministic inputs -> governed reference function or manifest predicate -> expected state -> actual state -> JSONL receipt -> summary root -> passkey validation annex. WHAT WAS TESTED Positive-semidefinite covariance reference matrices. WHAT THE PASS PROVES The te

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> Mj bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PINK_TEST_04_Covariance_MJ_P
reference "PINK-08-P0005"
state R -> R1
node N1
representation JP(PINK-08-P0005)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_R11_23000_Test_and_Simulation_Results.pdf, page 5 of 24. PINK-TEST-04 Covariance MJ-PBME
```


NODE PLACEMENT / RAINBOW PATH



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.



R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source
MJ_PBMEF_Pink_Paper_R11_23000_Test_and_Simulation_Results.pdf, page 6 of 24. PINK-TEST-05 Digest MJ-PBMEF-DAY0-R11-COLOR-PAPERS-180K-FINAL 1,000 deterministic scenarios | all passed DISCOVERY PATH Source category DIGEST -> deterministic inputs -> governed reference function or manifest predicate -> expected state -> actual state -> JSONL receipt -> summary root -> passkey validation annex. WHAT WAS TESTED Canonical lowercase SHA-256 validation. WHAT THE PASS PROVES The tested invariant behave

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PINK_TEST_05_Digest_MJ_PBMEF
reference "PINK-08-P0006"
state R -> R1
node N8
representation JP(PINK-08-P0006)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_R11_23000_Test_and_Simulation_Results.pdf, page 6 of 24. PINK-TEST-05 Digest MJ-PBMEF-DA
```

NODE PLACEMENT / RAINBOW PATH

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_R11_23000_Test_and_Simulation_Results.pdf, page 7 of 24. PINK-TEST-06 Documentation MJ-PBMEF-DAY0-R11-COLOR-PAPERS-180K-FINAL 1,000 deterministic scenarios all passed DISCOVERY PATH Source category DOCUMENTATION -> deterministic inputs -> governed reference function or manifest predicate -> expected state -> actual state -> JSONL receipt -> summary root -> passkey validation annex. WHAT WAS TESTED Official documentation entry existence and content hashes. WHAT THE PASS P

PATH OF EXPRESSION

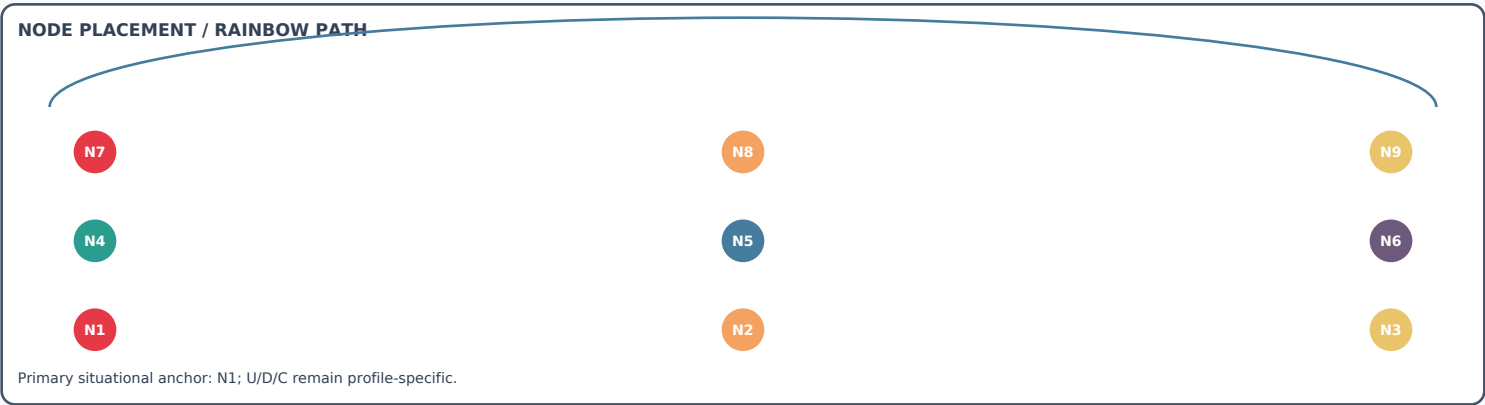
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```

module MJ.Rainbow.PINK_TEST_06_Documentation_M
reference "PINK-08-P0007"
state R -> R1
node N1
representation JP(PINK-08-P0007)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_R11_23000_Test_and_Simulation_Results.pdf, page 7 of 24. PINK-TEST-06 Documentation MJ-P

```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_R11_23000_Test_and_Simulation_Results.pdf, page 8 of 24. PINK-TEST-07 Dro MJ-PBMEF-DAY0-R11-COLOR-PAPERS-180K-FINAL 1,000 deterministic scenarios all passed DISCOVERY PATH Source category DRO -> deterministic inputs -> governed reference function or manifest predicate -> expected state -> actual state -> JSONL receipt -> summary root -> passkey validation annex. WHAT WAS TESTED DRO scale, uncertainty, R1, and R2 reference states. WHAT THE PASS PROVES The tested invariant

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PINK_TEST_07_Dro_MJ_PBMEF_DA
reference "PINK-08-P0008"
state R -> R1
node N1
representation JP(PINK-08-P0008)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_R11_23000_Test_and_Simulation_Results.pdf, page 8 of 24. PINK-TEST-07 Dro MJ-PBMEF-DAY0-
```

Node Placement / Rainbow Path



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source
MJ_PBMEF_Pink_Paper_R11_23000_Test_and_Simulation_Results.pdf, page 9 of 24. PINK-TEST-08 Gas MJ-PBMEF-DAY0-R11-COLOR-PAPERS-180K-FINAL 1,000 deterministic scenarios | all passed DISCOVERY PATH Source category GAS -> deterministic inputs -> governed reference function or manifest predicate -> expected state -> actual state -> JSONL receipt -> summary root -> passkey validation annex. WHAT WAS TESTED State-dependent reference-gas density and 24 mg volume. WHAT THE PASS PROVES The tested invari

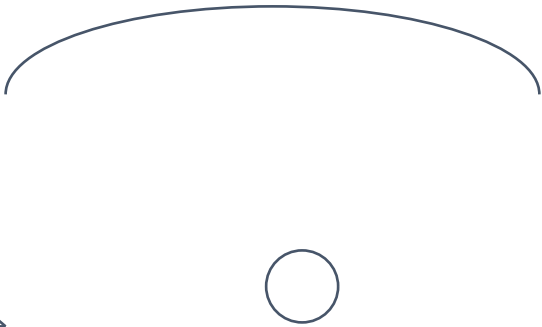
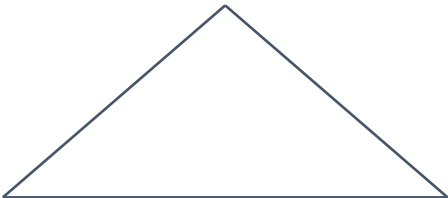
Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.PINK_TEST_08_Gas_MJ_PBMEF_DA
reference "PINK-08-P0009"
state R -> R1
node N1
representation JP(PINK-08-P0009)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_R11_23000_Test_and_Simulation_Results.pdf, page 9 of 24. PINK-TEST-08 Gas MJ-PBMEF-DAY0-
```

NODE PLACEMENT / RAINBOW PATH



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source
MJ_PBMEF_Pink_Paper_R11_23000_Test_and_Simulation_Results.pdf, page 10 of 24. PINK-TEST-09 Ip Discovery
MJ-PBMEF-DAY0-R11-COLOR-PAPERS-180K-FINAL 1,000 deterministic scenarios | all passed DISCOVERY PATH Source category IP_DISCOVERY -> deterministic inputs -> governed reference function or manifest predicate -> expected state -> actual state -> JSONL receipt -> summary root -> passkey validation annex. WHAT WAS TESTED Candidate-only Potential IP identifier and register boundaries. WHAT THE PAS

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PINK_TEST_09_Ip_Discovery_MJ
reference "PINK-08-P0010"
state R -> R1
node N3
representation JP(PINK-08-P0010)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_R11_23000_Test_and_Simulation_Results.pdf, page 10 of 24. PINK-TEST-09 Ip Discovery MJ-P
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_R11_23000_Test_and_Simulation_Results.pdf, page 11 of 24. PINK-TEST-10 Lecanto MJ-PBMEF-DAY0-R11-COLOR-PAPERS-180K-FINAL 1,000 deterministic scenarios all passed DISCOVERY PATH Source category LECANTO -> deterministic inputs -> governed reference function or manifest predicate -> expected state -> actual state -> JSONL receipt -> summary root -> passkey validation annex. WHAT WAS TESTED Source digest, image residual, intent hypothesis, and safe transformation gates. WHAT

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PINK_TEST_10_Lecanto_MJ_PBME
reference "PINK-08-P0011"
state R -> R1
node N1
representation JP(PINK-08-P0011)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_R11_23000_Test_and_Simulation_Results.pdf, page 11 of 24. PINK-TEST-10 Lecanto MJ-PBMEF-
```

NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source
MJ_PBMEF_Pink_Paper_R11_23000_Test_and_Simulation_Results.pdf, page 12 of 24. PINK-TEST-11 M3 MJ-PBMEF-DAY0-R11-COLOR-PAPERS-180K-FINAL 1,000 deterministic scenarios | all passed DISCOVERY PATH Source category M3 -> deterministic inputs -> governed reference function or manifest predicate -> expected state -> actual state -> JSONL receipt -> summary root -> passkey validation annex. WHAT WAS TESTED Non-authoritative routing receipts. WHAT THE PASS PROVES The tested invariant behaved determinis

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PINK_TEST_11_M3_MJ_PBMEF_DAY
reference "PINK-08-P0012"
state R -> R1
node N1
representation JP(PINK-08-P0012)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_R11_23000_Test_and_Simulation_Results.pdf, page 12 of 24. PINK-TEST-11 M3 MJ-PBMEF-DAY0-
```

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

Source Rule / Intent

Pink source

MJ_PBMEF_Pink_Paper_R11_23000_Test_and_Simulation_Results.pdf, page 13 of 24. PINK-TEST-12 Mass23 MJ-PBMEF-DAY0-R11-COLOR-PAPERS-180K-FINAL 1,000 deterministic scenarios | all passed DISCOVERY PATH Source category MASS23 -> deterministic inputs -> governed reference function or manifest predicate -> expected state -> actual state -> JSONL receipt -> summary root -> passkey validation annex. WHAT WAS TESTED 23 mg observational-floor interval classification. WHAT THE PASS PROVES The tested invar

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PINK_TEST_12_Mass23_MJ_PBMEF
reference "PINK-08-P0013"
state R -> R1
node N1
representation JP(PINK-08-P0013)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_R11_23000_Test_and_Simulation_Results.pdf, page 13 of 24. PINK-TEST-12 Mass23 MJ-PBMEF-D
```


Node Placement / Rainbow Path



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source
MJ_PBMEF_Pink_Paper_R11_23000_Test_and_Simulation_Results.pdf, page 14 of 24. PINK-TEST-13 Mass24 MJ-PBMEF-DAY0-R11-COLOR-PAPERS-180K-FINAL 1,000 deterministic scenarios | all passed DISCOVERY PATH Source category MASS24 -> deterministic inputs -> governed reference function or manifest predicate -> expected state -> actual state -> JSONL receipt -> summary root -> passkey validation annex. WHAT WAS TESTED 24 mg reference-mass and density-dependent volume separation. WHAT THE PASS PROVES The t

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.PINK_TEST_13_Mass24_MJ_PBMEF
reference "PINK-08-P0014"
state R -> R1
node N7
representation JP(PINK-08-P0014)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_R11_23000_Test_and_Simulation_Results.pdf, page 14 of 24. PINK-TEST-13 Mass24 MJ-PBMEF-D
```

Node Placement / Rainbow Path



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source
MJ_PBMEF_Pink_Paper_R11_23000_Test_and_Simulation_Results.pdf, page 15 of 24. PINK-TEST-14 Memory MJ-PBMEF-DAY0-R11-COLOR-PAPERS-180K-FINAL 1,000 deterministic scenarios | all passed DISCOVERY PATH Source category MEMORY -> deterministic inputs -> governed reference function or manifest predicate -> expected state -> actual state -> JSONL receipt -> summary root -> passkey validation annex. WHAT WAS TESTED Request memory, preallocation, residual, and headroom accounting. WHAT THE PASS PROVES T

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.PINK_TEST_14_Memory_MJ_PBMEF
reference "PINK-08-P0015"
state R -> R1
node N1
representation JP(PINK-08-P0015)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_R11_23000_Test_and_Simulation_Results.pdf, page 15 of 24. PINK-TEST-14 Memory MJ-PBMEF-D
```

NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source
MJ_PBMEF_Pink_Paper_R11_23000_Test_and_Simulation_Results.pdf, page 16 of 24. PINK-TEST-15 Noise MJ-PBMEF-DAY0-R11-COLOR-PAPERS-180K-FINAL 1,000 deterministic scenarios | all passed DISCOVERY PATH Source category NOISE -> deterministic inputs -> governed reference function or manifest predicate -> expected state -> actual state -> JSONL receipt -> summary root -> passkey validation annex. WHAT WAS TESTED Smoothing, trend, and bounded anti-spike reference behavior. WHAT THE PASS PROVES The test

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PINK_TEST_15_Noise_MJ_PBMEF_
reference "PINK-08-P0016"
state R -> R1
node N1
representation JP(PINK-08-P0016)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_R11_23000_Test_and_Simulation_Results.pdf, page 16 of 24. PINK-TEST-15 Noise MJ-PBMEF-DA
```

Node Placement / Rainbow Path



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_R11_23000_Test_and_Simulation_Results.pdf, page 17 of 24. PINK-TEST-16 Numeric MJ-PBMEF-DAY0-R11-COLOR-PAPERS-180K-FINAL 1,000 deterministic scenarios all passed DISCOVERY PATH Source category NUMERIC -> deterministic inputs -> governed reference function or manifest predicate -> expected state -> actual state -> JSONL receipt -> summary root -> passkey validation annex. WHAT WAS TESTED NaN and infinity rejection with finite-value acceptance. WHAT THE PASS PROVES The test

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PINK_TEST_16_Numeric_MJ_PBME
reference "PINK-08-P0017"
state R -> R1
node N1
representation JP(PINK-08-P0017)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_R11_23000_Test_and_Simulation_Results.pdf, page 17 of 24. PINK-TEST-16 Numeric MJ-PBMEF-
```

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source
MJ_PBMEF_Pink_Paper_R11_23000_Test_and_Simulation_Results.pdf, page 18 of 24. PINK-TEST-17 Pearl MJ-PBMEF-DAY0-R11-COLOR-PAPERS-180K-FINAL 1,000 deterministic scenarios | all passed DISCOVERY PATH Source category PEARL -> deterministic inputs -> governed reference function or manifest predicate -> expected state -> actual state -> JSONL receipt -> summary root -> passkey validation annex. WHAT WAS TESTED Pearl simulation capacity and nonphysical status. WHAT THE PASS PROVES The tested invariant

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

module MJ.Rainbow.PINK_TEST_17_Pearl_MJ_PBMEF_
reference "PINK-08-P0018"
state R -> R1
node N2
representation JP(PINK-08-P0018)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
Pink source MJ_PBMEF_Pink_Paper_R11_23000_Test_and_Simulation_Results.pdf, page 18 of 24. PINK-TEST-17 Pearl MJ-PBMEF-DA

NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source
MJ_PBMEF_Pink_Paper_R11_23000_Test_and_Simulation_Results.pdf, page 19 of 24. PINK-TEST-18 Profile Isolation
MJ-PBMEF-DAY0-R11-COLOR-PAPERS-180K-FINAL 1,000 deterministic scenarios | all passed DISCOVERY PATH Source category PROFILE_ISOLATION -> deterministic inputs -> governed reference function or manifest predicate -> expected state -> actual state -> JSONL receipt -> summary root -> passkey validation annex. WHAT WAS TESTED Separate product/profile values and transfer-receipt requirements.

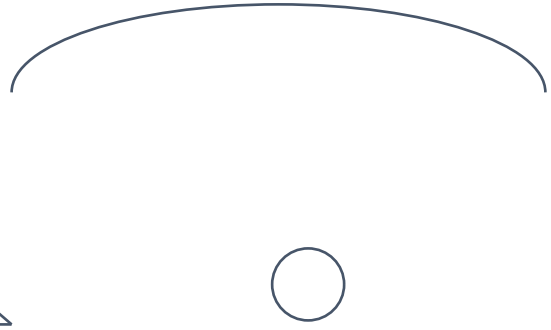
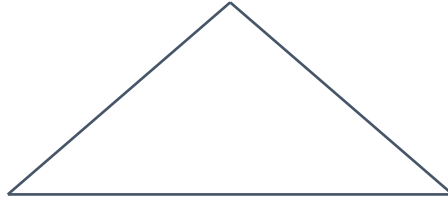
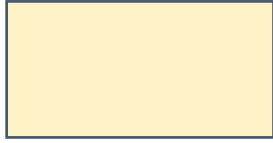
PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PINK_TEST_18_Profile_Isolati
reference "PINK-08-P0019"
state R -> R1
node N1
representation JP(PINK-08-P0019)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_R11_23000_Test_and_Simulation_Results.pdf, page 19 of 24. PINK-TEST-18 Profile Isolation
```

NODE PLACEMENT / RAINBOW PATH



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source
MJ_PBMFEF_Pink_Paper_R11_23000_Test_and_Simulation_Results.pdf, page 20 of 24. PINK-TEST-19 Reservoir MJ-PBMFEF-DAY0-R11-COLOR-PAPERS-180K-FINAL 1,000 deterministic scenarios | all passed DISCOVERY PATH Source category RESERVOIR -> deterministic inputs -> governed reference function or manifest predicate -> expected state -> actual state -> JSONL receipt -> summary root -> passkey validation annex. WHAT WAS TESTED Inventory balance, vector capacity, new-cycle re-entry, and physical holds. WHAT T

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PINK_TEST_19_Reservoir_MJ_PB
reference "PINK-08-P0020"
state R -> R1
node N1
representation JP(PINK-08-P0020)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ PBMEF Pink Paper R11 23000 Test and Simulation Results.pdf, page 20 of 24. PINK-TEST-19 Reservoir MJ-PBME
```

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source
MJ_PBMEF_Pink_Paper_R11_23000_Test_and_Simulation_Results.pdf, page 21 of 24. PINK-TEST-20 Sheets MJ-PBMEF-DAY0-R11-COLOR-PAPERS-180K-FINAL 1,000 deterministic scenarios | all passed DISCOVERY PATH Source category SHEETS -> deterministic inputs -> governed reference function or manifest predicate -> expected state -> actual state -> JSONL receipt -> summary root -> passkey validation annex. WHAT WAS TESTED Bangel Spreadsheets atomic updates, formulas, units, evidence state, and rollback. WHAT

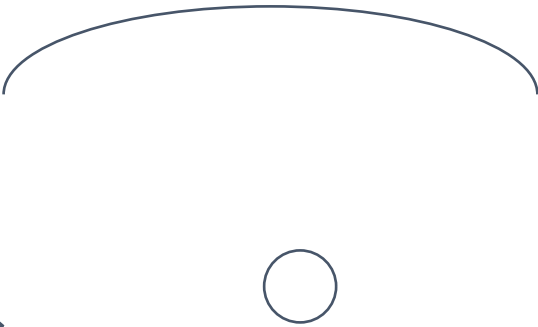
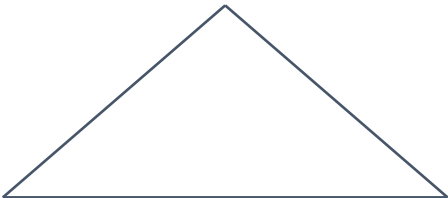
PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

module MJ.Rainbow.PINK_TEST_20_Sheets_MJ_PBMEF
reference "PINK-08-P0021"
state R -> R1
node N1
representation JP(PINK-08-P0021)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
Pink source MJ_PBMEF_Pink_Paper_R11_23000_Test_and_Simulation_Results.pdf, page 21 of 24. PINK-TEST-20 Sheets MJ-PBMEF-D

NODE PLACEMENT / RAINBOW PATH



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source
MJ_PBMEF_Pink_Paper_R11_23000_Test_and_Simulation_Results.pdf, page 22 of 24. PINK-TEST-21 Shiva Day1
MJ-PBMEF-DAY0-R11-COLOR-PAPERS-180K-FINAL 1,000 deterministic scenarios | all passed DISCOVERY PATH Source category SHIVA_DAY1 -> deterministic inputs -> governed reference function or manifest predicate -> expected state -> actual state -> JSONL receipt -> summary root -> passkey validation annex. WHAT WAS TESTED Liquidity-first internal banking MVP calculations and external-crypto exclusion.

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PINK_TEST_21_Shiva_Day1_MJ_P
reference "PINK-08-P0022"
state R -> R1
node N6
representation JP(PINK-08-P0022)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_R11_23000_Test_and_Simulation_Results.pdf, page 22 of 24. PINK-TEST-21 Shiva Day1 MJ-PBM
```

Node Placement / Rainbow Path



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source
MJ_PBMEF_Pink_Paper_R11_23000_Test_and_Simulation_Results.pdf, page 23 of 24. PINK-TEST-22 State MJ-PBMEF-DAY0-R11-COLOR-PAPERS-180K-FINAL 1,000 deterministic scenarios | all passed DISCOVERY PATH Source category STATE -> deterministic inputs -> governed reference function or manifest predicate -> expected state -> actual state -> JSONL receipt -> summary root -> passkey validation annex. WHAT WAS TESTED R/R0/R1/N1/R2 transitions and UNKNOWN != ZERO. WHAT THE PASS PROVES The tested invariant b

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.PINK_TEST_22_State_MJ_PBMEF_
reference "PINK-08-P0023"
state R -> R1
node N1
representation JP(PINK-08-P0023)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_R11_23000_Test_and_Simulation_Results.pdf, page 23 of 24. PINK-TEST-22 State MJ-PBMEF-DA
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_R11_23000_Test_and_Simulation_Results.pdf, page 24 of 24. PINK-TEST-23 Syntax MJ-PBMEF-DAY0-R11-COLOR-PAPERS-180K-FINAL 1,000 deterministic scenarios all passed DISCOVERY PATH Source category SYNTAX -> deterministic inputs -> governed reference function or manifest predicate -> expected state -> actual state -> JSONL receipt -> summary root -> passkey validation annex. WHAT WAS TESTED Balanced reference syntax constructs and authority-none declarations. WHAT THE PASS PROV

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.PINK_TEST_23_Syntax_MJ_PBMEF
reference "PINK-08-P0024"
state R -> R1
node N1
representation JP(PINK-08-P0024)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_R11_23000_Test_and_Simulation_Results.pdf, page 24 of 24. PINK-TEST-23 Syntax MJ-PBMEF-D
```

NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source MJ_PBMEF_Pink_Paper_Potential_IP_Status_001.pdf, page 1 of 48. MJ-PBMEF PINK PAPER - POTENTIAL IP STATUS Pre-Day-0 verification-focused Pink Paper Page 1 Potential IP Pink Paper - No-Rights Boundary CONTROLLING STATEMENT The 90,000 Potential IP Points are internal candidate technical observations. They do not establish ownership, inventorship, novelty, patentability, validity, enforceability, infringement, freedom to operate, registration, clearance, or entitlement to any IP rig

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

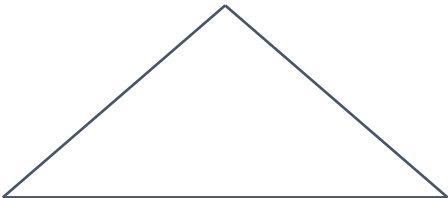
CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.MJ_PBMEF_PINK_PAPER_POTENTIA
reference "PINK-09-P0001"
state R -> R1
node N1
representation JP(PINK-09-P0001)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Potential_IP_Status_001.pdf, page 1 of 48. MJ-PBMEF PINK PAPER - POTENTIAL IP STATUS Pre
```

NODE PLACEMENT / RAINBOW PATH



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.



R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source MJ_PBMEF_Pink_Paper_Potential_IP_Status_001.pdf, page 2 of 48. MJ-PBMEF PINK PAPER - POTENTIAL IP STATUS Pre-Day-0 verification-focused Pink Paper Page 2 How the 90,000 Candidate Points Were Established PREDECESSOR 10,000 The first sweep used formula, family-object, product-construct, white-paper, and cross-cutting technical lenses to enumerate 10,000 candidate observations. SOLAR 20,000 The solar three-profile integration added 20,000 observations across the shared core, semico

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.MJ_PBMEF_PINK_PAPER_POTENTIA
reference "PINK-09-P0002"
state R -> R1
node N1
representation JP(PINK-09-P0002)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Potential_IP_Status_001.pdf, page 2 of 48. MJ-PBMEF PINK PAPER - POTENTIAL IP STATUS Pre
```

NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source MJ_PBMEF_Pink_Paper_Potential_IP_Status_001.pdf, page 3 of 48. MJ-PBMEF PINK PAPER - POTENTIAL IP STATUS Pre-Day-0 verification-focused Pink Paper Page 3 Candidate Point Anatomy FIELDS Each candidate may carry a point identifier, source formula/family/object/product/document, technical thesis, differentiation hypothesis, disclosure prompt, search terms, possible protection modes, enablement gaps, risk flags, confidentiality recommendation, next action, and gateway relation. STAT

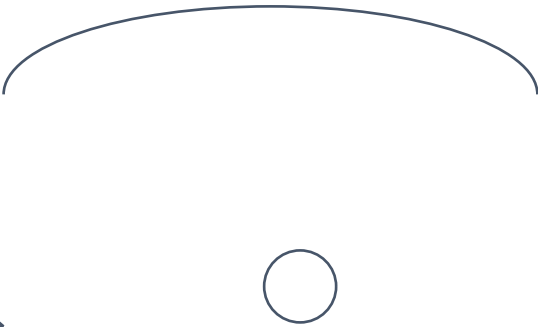
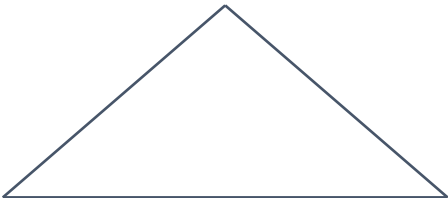
PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.MJ_PBMEF_PINK_PAPER_POTENTIA
reference "PINK-09-P0003"
state R -> R1
node N1
representation JP(PINK-09-P0003)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Potential_IP_Status_001.pdf, page 3 of 48. MJ-PBMEF PINK PAPER - POTENTIAL IP STATUS Pre
```

NODE PLACEMENT / RAINBOW PATH



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

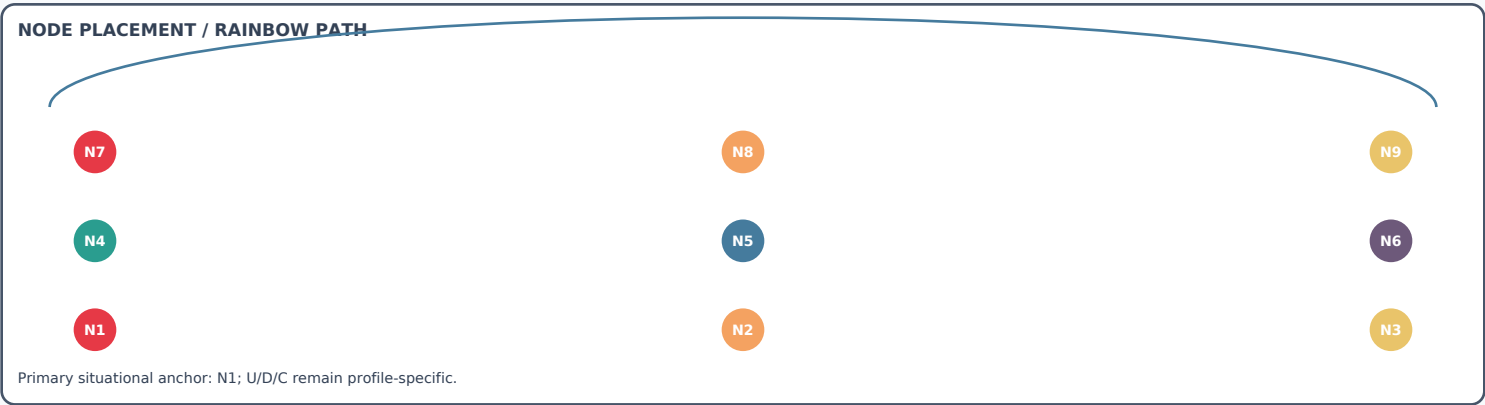
Pink source MJ_PBMEF_Pink_Paper_Potential_IP_Status_001.pdf, page 4 of 48. MJ-PBMEF PINK PAPER - POTENTIAL IP STATUS Pre-Day-0 verification-focused Pink Paper Page 4 Formula and Algorithm Layer TECHNICAL SCOPE Formula-derived points examine typed inputs, operators, transformations, units, uncertainty, evidence, control volumes, scaling, implementation, verification, and product embodiment. REVIEW QUESTIONS What is the claimed technical difference? What is actually enabled by the disclosure?

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.MJ_PBMEF_PINK_PAPER_POTENTIA
reference "PINK-09-P0004"
state R -> R1
node N1
representation JP(PINK-09-P0004)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Potential_IP_Status_001.pdf, page 4 of 48. MJ-PBMEF PINK PAPER - POTENTIAL IP STATUS Pre
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Potential_IP_Status_001.pdf, page 5 of 48. MJ-PBMEF PINK PAPER - POTENTIAL IP STATUS Pre-Day-0 verification-focused Pink Paper Page 5 Family and Object Layer TECHNICAL SCOPE Family-object points examine boundaries, handoffs, interfaces, evidence custody, non-substitutability, recovery, routing, and combinations among manifestations and governed objects. REVIEW QUESTIONS What is the claimed technical difference? What is actually enabled by the disclosure? Whic

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> Mj bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```

module MJ.Rainbow.MJ_PBMEF_PINK_PAPER_POTENTIA
reference "PINK-09-P0005"
state R -> R1
node N1
representation JP(PINK-09-P0005)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Potential_IP_Status_001.pdf, page 5 of 48. MJ-PBMEF PINK PAPER - POTENTIAL IP STATUS Pre

```


Node Placement / Rainbow Path



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

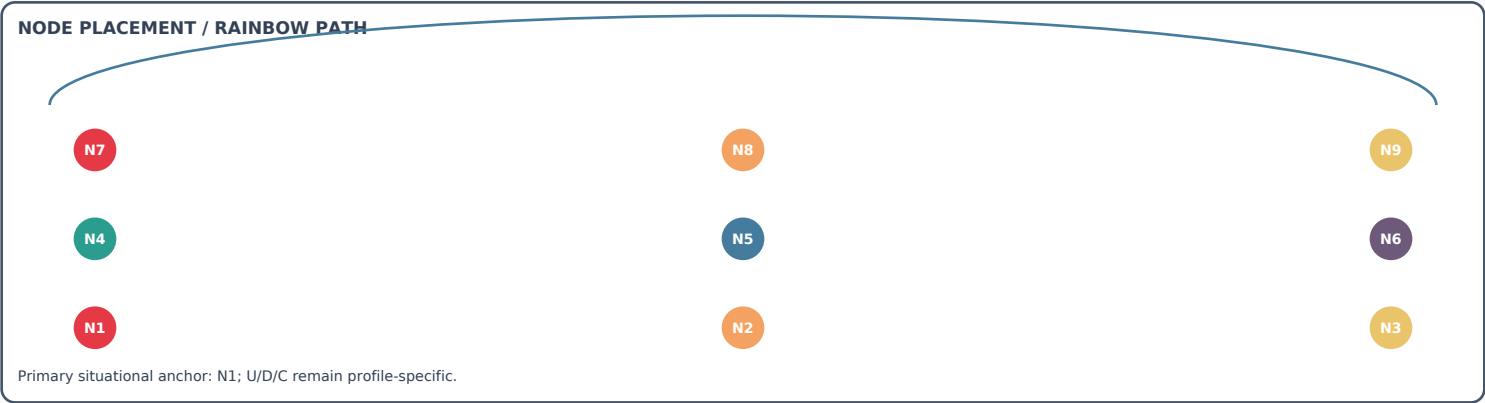
R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Potential_IP_Status_001.pdf, page 6 of 48. MJ-PBMEF PINK PAPER - POTENTIAL IP STATUS Pre-Day-0 verification-focused Pink Paper Page 6 Product and Construct Layer TECHNICAL SCOPE Product-construct points examine use cases, command syntax, configuration, profiles, workflows, interfaces, scaling, safety, and product-specific embodiments. REVIEW QUESTIONS What is the claimed technical difference? What is actually enabled by the disclosure? Which elements are know

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.MJ_PBMEF_PINK_PAPER_POTENTIA
reference "PINK-09-P0006"
state R -> R1
node N5
representation JP(PINK-09-P0006)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Potential_IP_Status_001.pdf, page 6 of 48. MJ-PBMEF PINK PAPER - POTENTIAL IP STATUS Pre
```



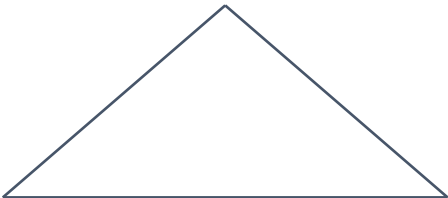
R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Potential_IP_Status_001.pdf, page 7 of 48. MJ-PBMEF PINK PAPER - POTENTIAL IP STATUS Pre-Day-0 verification-focused Pink Paper Page 7 White-Paper Layer TECHNICAL SCOPE White-paper points examine disclosed systems, methods, architectures, diagrams, examples, limitations, and alternative embodiments that may require separate prior-art and enablement review. REVIEW QUESTIONS What is the claimed technical difference? What is actually enabled by the disclosure? Wh

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> Mj bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.MJ_PBMEF_PINK_PAPER_POTENTIA
reference "PINK-09-P0007"
state R -> R1
node N1
representation JP(PINK-09-P0007)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Potential_IP_Status_001.pdf, page 7 of 48. MJ-PBMEF PINK PAPER - POTENTIAL IP STATUS Pre
```

NODE PLACEMENT / RAINBOW PATH



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source MJ_PBMEF_Pink_Paper_Potential_IP_Status_001.pdf, page 8 of 48. MJ-PBMEF PINK PAPER - POTENTIAL IP STATUS Pre-Day-0 verification-focused Pink Paper Page 8 Solar Three-Profile Layer TECHNICAL SCOPE The solar layer preserves shared-core architecture while requiring separate physical evidence for semiconductor/phone, marine, and peaceful rocket/spacecraft profiles. REVIEW QUESTIONS What is the claimed technical difference? What is actually enabled by the disclosure? Which elements a

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.MJ_PBMEF_PINK_PAPER_POTENTIA
reference "PINK-09-P0008"
state R -> R1
node N1
representation JP(PINK-09-P0008)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Potential_IP_Status_001.pdf, page 8 of 48. MJ-PBMEF PINK PAPER - POTENTIAL IP STATUS Pre
```

NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source MJ_PBMEF_Pink_Paper_Potential_IP_Status_001.pdf, page 9 of 48. MJ-PBMEF PINK PAPER - POTENTIAL IP STATUS Pre-Day-0 verification-focused Pink Paper Page 9 DRO Layer TECHNICAL SCOPE DRO observations cover typed unit acquisition, R-to-R1 state transitions, optical reference hypotheses, conservation, receipts, scale boundaries, and non-authority status. REVIEW QUESTIONS What is the claimed technical difference? What is actually enabled by the disclosure? Which elements are known? Wh

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```

module MJ.Rainbow.MJ_PBMEF_PINK_PAPER_POTENTIA
reference "PINK-09-P0009"
state R -> R1
node N1
representation JP(PINK-09-P0009)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Potential_IP_Status_001.pdf, page 9 of 48. MJ-PBMEF PINK PAPER - POTENTIAL IP STATUS Pre

```

Node Placement / Rainbow Path



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Potential_IP_Status_001.pdf, page 10 of 48. MJ-PBMEF PINK PAPER - POTENTIAL IP STATUS Pre-Day-0 verification-focused Pink Paper Page 10 Pearl/DRO Layer TECHNICAL SCOPE Pearl/DRO observations cover computational-node retention, hypothetical allocation, handoff evidence, capacity modeling, and strict separation from physical-container claims. REVIEW QUESTIONS What is the claimed technical difference? What is actually enabled by the disclosure? Which elements are

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.MJ_PBMEF_PINK_PAPER_POTENTIA
reference "PINK-09-P0010"
state R -> R1
node N9
representation JP(PINK-09-P0010)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Potential_IP_Status_001.pdf, page 10 of 48. MJ-PBMEF PINK PAPER - POTENTIAL IP STATUS Pr
```

NODE PLACEMENT / RAINBOW PATH

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Potential_IP_Status_001.pdf, page 11 of 48. MJ-PBMEF PINK PAPER - POTENTIAL IP STATUS Pre-Day-0 verification-focused Pink Paper Page 11 Start and Restart Layer TECHNICAL SCOPE Start/restart observations cover available energy, required energy, reserve, loss, uncertainty, state transitions, and non-operational reference status. REVIEW QUESTIONS What is the claimed technical difference? What is actually enabled by the disclosure? Which elements are known? What e

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```

module MJ.Rainbow.MJ_PBMEF_PINK_PAPER_POTENTIA
reference "PINK-09-P0011"
state R -> R1
node N1
representation JP(PINK-09-P0011)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Potential_IP_Status_001.pdf, page 11 of 48. MJ-PBMEF PINK PAPER - POTENTIAL IP STATUS Pr

```

NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source MJ_PBMEF_Pink_Paper_Potential_IP_Status_001.pdf, page 12 of 48. MJ-PBMEF PINK PAPER - POTENTIAL IP STATUS Pre-Day-0 verification-focused Pink Paper Page 12 Lecanto Layer TECHNICAL SCOPE Lecanto observations cover source digest, metadata, image variance, transformations, derivative labels, safety classification, contextual intent hypotheses, and truthful visualization. REVIEW QUESTIONS What is the claimed technical difference? What is actually enabled by the disclosure? Which elem

PATH OF EXPRESSION

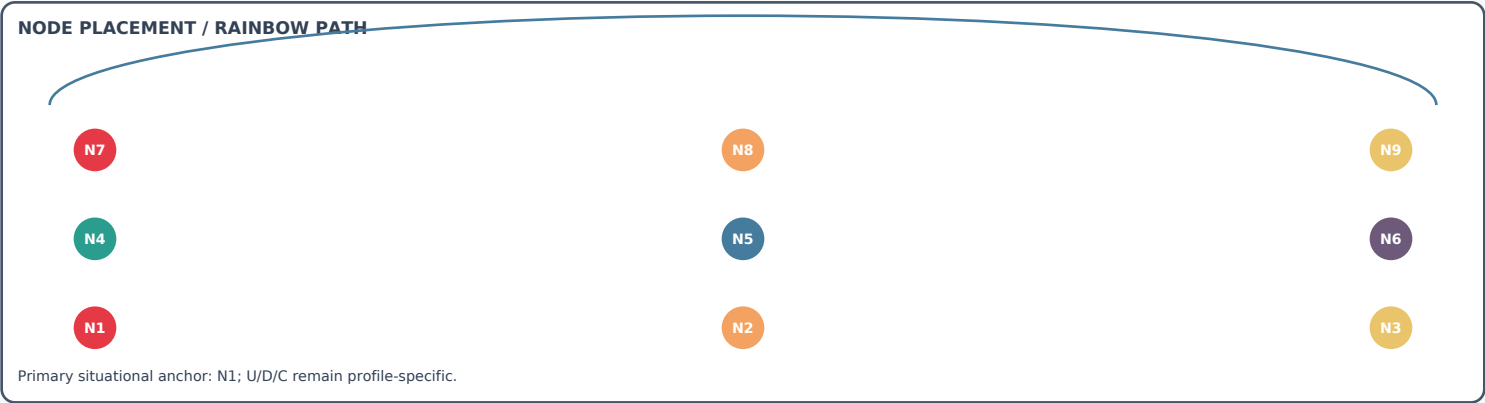
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```

module MJ.Rainbow.MJ_PBMEF_PINK_PAPER_POTENTIA
reference "PINK-09-P0012"
state R -> R1
node N1
representation JP(PINK-09-P0012)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Potential_IP_Status_001.pdf, page 12 of 48. MJ-PBMEF PINK PAPER - POTENTIAL IP STATUS Pr

```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Potential_IP_Status_001.pdf, page 13 of 48. MJ-PBMEF PINK PAPER - POTENTIAL IP STATUS Pre-Day-0 verification-focused Pink Paper Page 13 Semiconductor Layer TECHNICAL SCOPE Semiconductor observations cover charge, energy, leakage, wake, reserve, memory, thermal state, DRO ledgers, Pearl computational nodes, and profile-specific evidence. REVIEW QUESTIONS What is the claimed technical difference? What is actually enabled by the disclosure? Which elements are kno

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> Mj bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```

module MJ.Rainbow.MJ_PBMEF_PINK_PAPER_POTENTIA
reference "PINK-09-P0013"
state R -> R1
node N1
representation JP(PINK-09-P0013)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Potential_IP_Status_001.pdf, page 13 of 48. MJ-PBMEF PINK PAPER - POTENTIAL IP STATUS Pr

```


NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

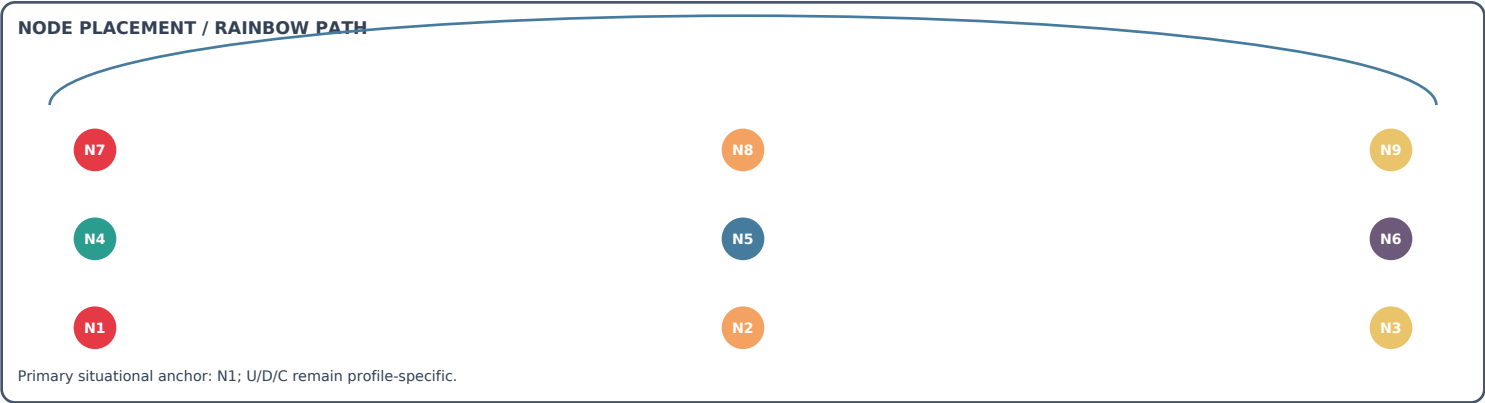
Pink source MJ_PBMEF_Pink_Paper_Potential_IP_Status_001.pdf, page 14 of 48. MJ-PBMEF PINK PAPER - POTENTIAL IP STATUS Pre-Day-0 verification-focused Pink Paper Page 14 Cross-System Layer TECHNICAL SCOPE Cross-system observations examine combinations, interface contracts, state transitions, authority boundaries, evidence flow, recovery, and alternative implementations across the portfolio. REVIEW QUESTIONS What is the claimed technical difference? What is actually enabled by the disclosure? W

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.MJ_PBMEF_PINK_PAPER_POTENTIA
reference "PINK-09-P0014"
state R -> R1
node N4
representation JP(PINK-09-P0014)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Potential_IP_Status_001.pdf, page 14 of 48. MJ-PBMEF PINK PAPER - POTENTIAL IP STATUS Pr
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Potential_IP_Status_001.pdf, page 15 of 48. MJ-PBMEF PINK PAPER - POTENTIAL IP STATUS Pre-Day-0 verification-focused Pink Paper Page 15 Internal Triage Tiers SUMMARY Triage is a workflow aid only. Higher priority does not prove patentability; lower priority does not eliminate trade-secret, copyright-expression, defensive-publication, or portfolio value. CONTROL The official documentation manifest and Terms preserve the candidate status, no-rights boundary, con

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> Mj bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```

module MJ.Rainbow.MJ_PBMEF_PINK_PAPER_POTENTIA
reference "PINK-09-P0015"
state R -> R1
node N1
representation JP(PINK-09-P0015)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Potential_IP_Status_001.pdf, page 15 of 48. MJ-PBMEF PINK PAPER - POTENTIAL IP STATUS Pr

```

Node Placement / Rainbow Path



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Potential_IP_Status_001.pdf, page 16 of 48. MJ-PBMEF PINK PAPER - POTENTIAL IP STATUS Pre-Day-0 verification-focused Pink Paper Page 16 Patent Candidate Review SUMMARY A patent-oriented review needs a claimable technical concept, correct inventorship, adequate written description and enablement, novelty and non-obviousness analysis, eligible subject matter, filing strategy, and prior-art search. The internal register supplies prompts, not conclusions. CONTROL

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.MJ_PBMEF_PINK_PAPER_POTENTIA
reference "PINK-09-P0016"
state R -> R1
node N1
representation JP(PINK-09-P0016)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Potential_IP_Status_001.pdf, page 16 of 48. MJ-PBMEF PINK PAPER - POTENTIAL IP STATUS Pr
```

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source MJ_PBMEF_Pink_Paper_Potential_IP_Status_001.pdf, page 17 of 48. MJ-PBMEF PINK PAPER - POTENTIAL IP STATUS Pre-Day-0 verification-focused Pink Paper Page 17 Trade-Secret Candidate Review SUMMARY Trade-secret review asks whether information has economic value from not being generally known and whether reasonable secrecy measures are maintained. Access controls, confidentiality terms, limited disclosure, logs, and custody procedures matter. CONTROL The official documentation manifes

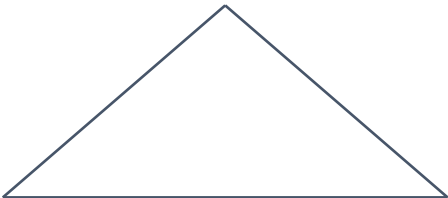
PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.MJ_PBMEF_PINK_PAPER_POTENTIA
reference "PINK-09-P0017"
state R -> R1
node N1
representation JP(PINK-09-P0017)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Potential_IP_Status_001.pdf, page 17 of 48. MJ-PBMEF PINK PAPER - POTENTIAL IP STATUS Pr
```

NODE PLACEMENT / RAINBOW PATH



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source MJ_PBMEF_Pink_Paper_Potential_IP_Status_001.pdf, page 18 of 48. MJ-PBMEF PINK PAPER - POTENTIAL IP STATUS Pre-Day-0 verification-focused Pink Paper Page 18 Copyright-Expression Review SUMMARY Copyright may protect original text, code, diagrams, and arrangement, but generally not the underlying ideas, methods, systems, formulas, or algorithms. The register should distinguish expressive artifacts from technical concepts. CONTROL The official documentation manifest and Terms preserv

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

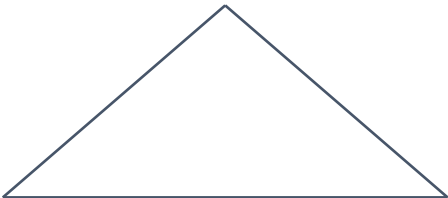
CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.MJ_PBMEF_PINK_PAPER_POTENTIA
reference "PINK-09-P0018"
state R -> R1
node N8
representation JP(PINK-09-P0018)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Potential_IP_Status_001.pdf, page 18 of 48. MJ-PBMEF PINK PAPER - POTENTIAL IP STATUS Pr
```

NODE PLACEMENT / RAINBOW PATH



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.



R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source MJ_PBMEF_Pink_Paper_Potential_IP_Status_001.pdf, page 19 of 48. MJ-PBMEF PINK PAPER - POTENTIAL IP STATUS Pre-Day-0 verification-focused Pink Paper Page 19 Trademark and Branding Review SUMMARY Names, marks, logos, and product identifiers require separate clearance and use analysis. Inclusion in the passkey does not establish trademark availability or registration rights. CONTROL The official documentation manifest and Terms preserve the candidate status, no-rights boundary, conf

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.MJ_PBMEF_PINK_PAPER_POTENTIA
reference "PINK-09-P0019"
state R -> R1
node N1
representation JP(PINK-09-P0019)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Potential_IP_Status_001.pdf, page 19 of 48. MJ-PBMEF PINK PAPER - POTENTIAL IP STATUS Pr
```

Node Placement / Rainbow Path



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source MJ_PBMEF_Pink_Paper_Potential_IP_Status_001.pdf, page 20 of 48. MJ-PBMEF PINK PAPER - POTENTIAL IP STATUS Pre-Day-0 verification-focused Pink Paper Page 20 Inventorship Review SUMMARY Patent inventorship is claim-specific. Founder-declared authorship or project leadership is not a substitute for identifying every human who contributed to the conception of each claimed invention. CONTROL The official documentation manifest and Terms preserve the candidate status, no-rights boundar

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.MJ_PBMEF_PINK_PAPER_POTENTIA
reference "PINK-09-P0020"
state R -> R1
node N1
representation JP(PINK-09-P0020)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Potential_IP_Status_001.pdf, page 20 of 48. MJ-PBMEF PINK PAPER - POTENTIAL IP STATUS Pr
```

Node Placement / Rainbow Path



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source MJ_PBMEF_Pink_Paper_Potential_IP_Status_001.pdf, page 21 of 48. MJ-PBMEF PINK PAPER - POTENTIAL IP STATUS Pre-Day-0 verification-focused Pink Paper Page 21 Ownership and Assignment Review SUMMARY Ownership can depend on inventorship, employment, contractor agreements, assignments, licenses, and applicable law. The internal build records founder declarations but does not independently adjudicate title. CONTROL The official documentation manifest and Terms preserve the candidate st

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.MJ_PBMEF_PINK_PAPER_POTENTIA
reference "PINK-09-P0021"
state R -> R1
node N1
representation JP(PINK-09-P0021)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Potential_IP_Status_001.pdf, page 21 of 48. MJ-PBMEF PINK PAPER - POTENTIAL IP STATUS Pr
```


NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

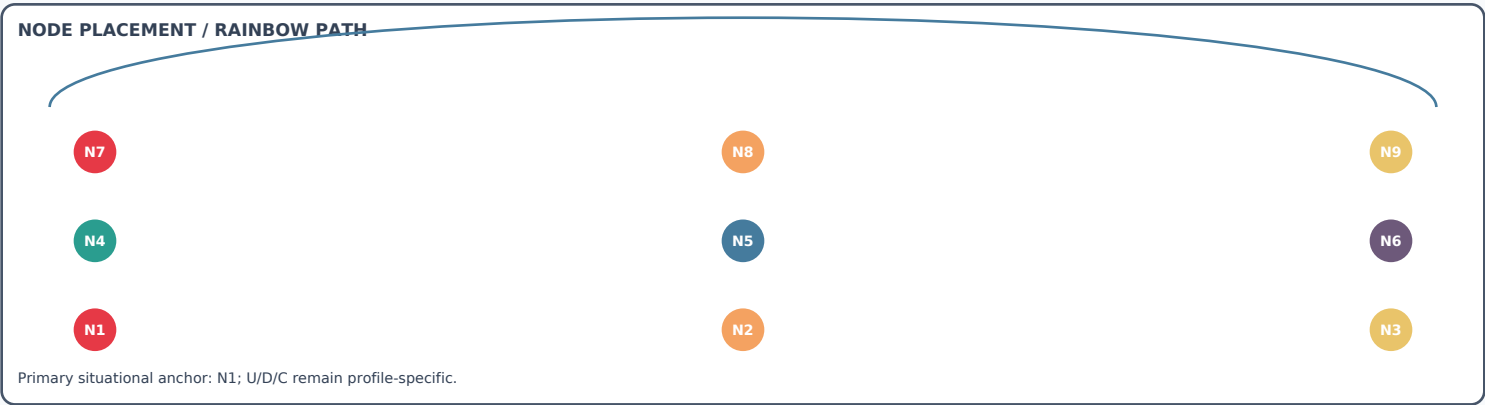
Pink source MJ_PBMEF_Pink_Paper_Potential_IP_Status_001.pdf, page 22 of 48. MJ-PBMEF PINK PAPER - POTENTIAL IP STATUS Pre-Day-0 verification-focused Pink Paper Page 22 Freedom-to-Operate Review SUMMARY Freedom to operate requires analysis of live third-party claims in relevant jurisdictions and product configurations. An internal novelty or IP sweep does not establish non-infringement. CONTROL The official documentation manifest and Terms preserve the candidate status, no-rights boundary, co

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.MJ_PBMEF_PINK_PAPER_POTENTIA
reference "PINK-09-P0022"
state R -> R1
node N3
representation JP(PINK-09-P0022)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Potential_IP_Status_001.pdf, page 22 of 48. MJ-PBMEF PINK PAPER - POTENTIAL IP STATUS Pr
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Potential_IP_Status_001.pdf, page 23 of 48. MJ-PBMEF PINK PAPER - POTENTIAL IP STATUS Pre-Day-0 verification-focused Pink Paper Page 23 Public-Disclosure Risk SUMMARY Public disclosure can affect patent timing and trade-secret status. The register should remain confidential until counsel determines disclosure strategy, filing timing, and access controls. CONTROL The official documentation manifest and Terms preserve the candidate status, no-rights boundary, co

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> Mj bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```

module MJ.Rainbow.MJ_PBMEF_PINK_PAPER_POTENTIA
reference "PINK-09-P0023"
state R -> R1
node N1
representation JP(PINK-09-P0023)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Potential_IP_Status_001.pdf, page 23 of 48. MJ-PBMEF PINK PAPER - POTENTIAL IP STATUS Pr

```

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source MJ_PBMEF_Pink_Paper_Potential_IP_Status_001.pdf, page 24 of 48. MJ-PBMEF PINK PAPER - POTENTIAL IP STATUS Pre-Day-0 verification-focused Pink Paper Page 24 Enablement and Evidence Gaps SUMMARY Points tied to hypothetical physical mechanisms require sufficient technical detail and, where appropriate, measurements, simulations, prototypes, or reproducible examples. The passkey authenticates the disclosure snapshot, not enablement or feasibility. CONTROL The official documentation m

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.MJ_PBMEF_PINK_PAPER_POTENTIA
reference "PINK-09-P0024"
state R -> R1
node N1
representation JP(PINK-09-P0024)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Potential_IP_Status_001.pdf, page 24 of 48. MJ-PBMEF PINK PAPER - POTENTIAL IP STATUS Pr
```

NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source MJ_PBMEF_Pink_Paper_Potential_IP_Status_001.pdf, page 25 of 48. MJ-PBMEF PINK PAPER - POTENTIAL IP STATUS Pre-Day-0 verification-focused Pink Paper Page 25 Duplicate and Cluster Logic SUMMARY Many candidate observations may describe overlapping aspects of the same technical concept. Counsel and engineers should cluster duplicates and related embodiments before counting inventions or drafting claims. CONTROL The official documentation manifest and Terms preserve the candidate stat

PATH OF EXPRESSION

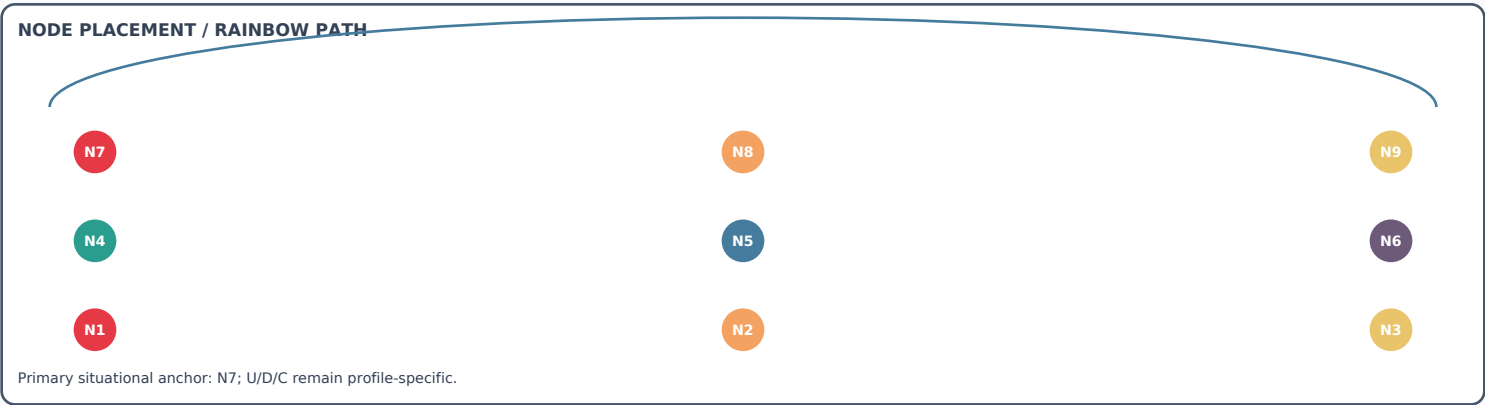
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```

module MJ.Rainbow.MJ_PBMEF_PINK_PAPER_POTENTIA
reference "PINK-09-P0025"
state R -> R1
node N1
representation JP(PINK-09-P0025)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Potential_IP_Status_001.pdf, page 25 of 48. MJ-PBMEF PINK PAPER - POTENTIAL IP STATUS Pr

```

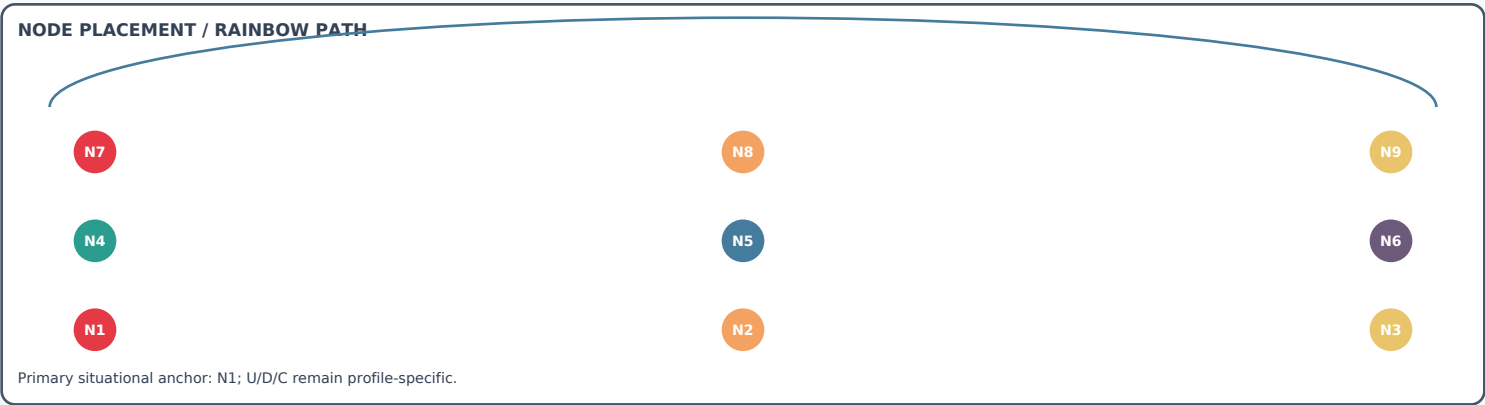


R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Potential_IP_Status_001.pdf, page 26 of 48. MJ-PBMEF PINK PAPER - POTENTIAL IP STATUS Pre-Day-0 verification-focused Pink Paper Page 26 Prior-Art Search Workflow SUMMARY Translate a candidate into technical features, synonyms, classifications, combinations, and date ranges. Search patents and non-patent literature, document results, and revise the candidate thesis without erasing the original record. CONTROL The official documentation manifest and Terms preser

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> Mj bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.MJ_PBMEF_PINK_PAPER_POTENTIA
reference "PINK-09-P0026"
state R -> R1
node N7
representation JP(PINK-09-P0026)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Potential_IP_Status_001.pdf, page 26 of 48. MJ-PBMEF PINK PAPER - POTENTIAL IP STATUS Pr
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Potential_IP_Status_001.pdf, page 27 of 48. MJ-PBMEF PINK PAPER - POTENTIAL IP STATUS Pre-Day-0 verification-focused Pink Paper Page 27 Counsel Handoff Package SUMMARY A strong handoff includes source excerpts, dates, contributor records, drawings, alternative embodiments, experimental status, known prior art, business relevance, disclosure history, confidentiality status, and proposed next action. CONTROL The official documentation manifest and Terms preserve

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> Mj bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.MJ_PBMEF_PINK_PAPER_POTENTIA
reference "PINK-09-P0027"
state R -> R1
node N1
representation JP(PINK-09-P0027)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Potential_IP_Status_001.pdf, page 27 of 48. MJ-PBMEF PINK PAPER - POTENTIAL IP STATUS Pr
```

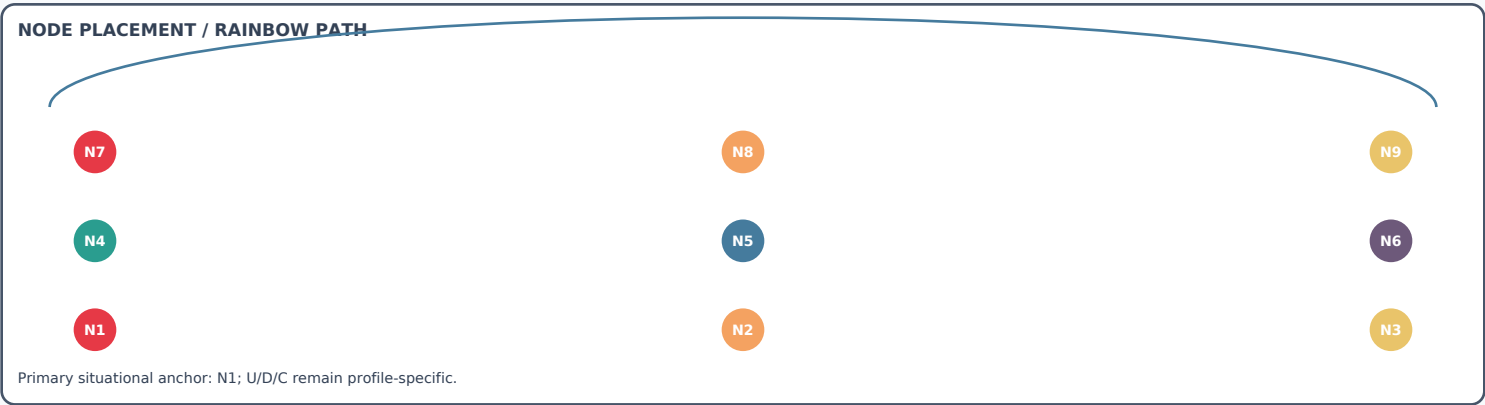


R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Potential_IP_Status_001.pdf, page 28 of 48. MJ-PBMEF PINK PAPER - POTENTIAL IP STATUS Pre-Day-0 verification-focused Pink Paper Page 28 Pending Status in Access Terms SUMMARY Users must preserve Potential IP Points as pending internal observations and may not represent them as cleared rights or use them outside authorized scope. Explicit assent and confidentiality controls should precede access. CONTROL The official documentation manifest and Terms preserve th

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> Mj bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.MJ_PBMEF_PINK_PAPER_POTENTIA
reference "PINK-09-P0028"
state R -> R1
node N1
representation JP(PINK-09-P0028)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Potential_IP_Status_001.pdf, page 28 of 48. MJ-PBMEF PINK PAPER - POTENTIAL IP STATUS Pr
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Potential_IP_Status_001.pdf, page 29 of 48. MJ-PBMEF PINK PAPER - POTENTIAL IP STATUS Pre-Day-0 verification-focused Pink Paper Page 29 Passkey Relationship SUMMARY The passkey can prove that a particular pending register was included in an approved, hashed snapshot. It cannot create the IP rights described by the register. CONTROL The official documentation manifest and Terms preserve the candidate status, no-rights boundary, confidentiality expectations, and

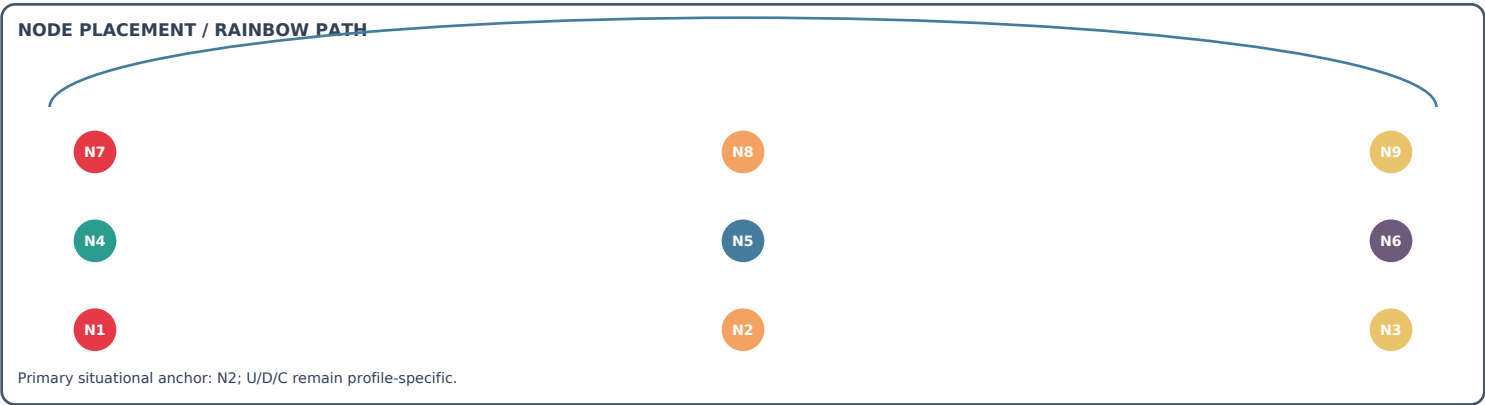
PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> Mj bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```

module MJ.Rainbow.MJ_PBMEF_PINK_PAPER_POTENTIA
reference "PINK-09-P0029"
state R -> R1
node N1
representation JP(PINK-09-P0029)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Potential_IP_Status_001.pdf, page 29 of 48. MJ-PBMEF PINK PAPER - POTENTIAL IP STATUS Pr

```

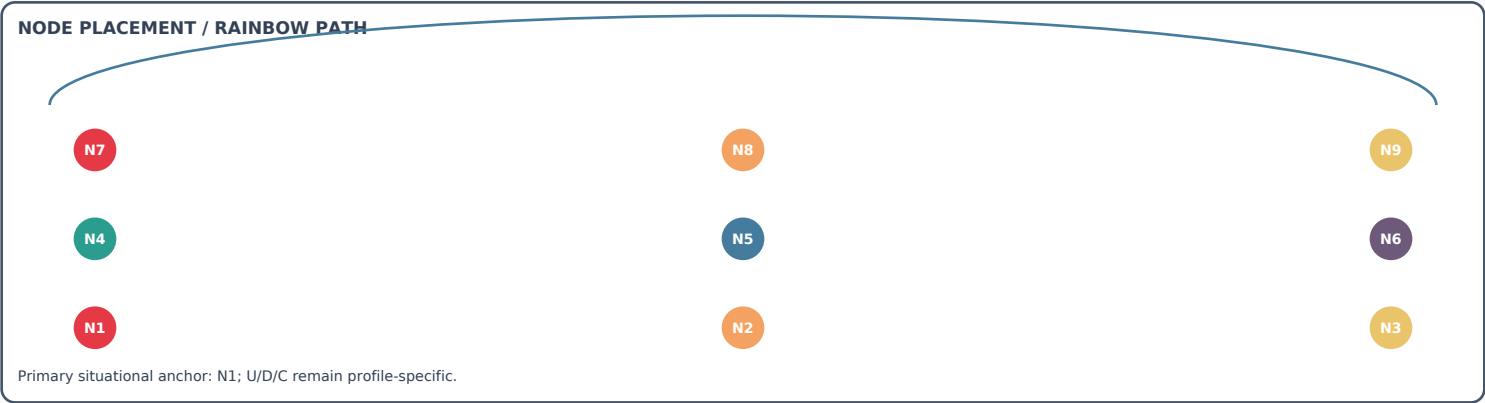



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Potential_IP_Status_001.pdf, page 30 of 48. MJ-PBMEF PINK PAPER - POTENTIAL IP STATUS Pre-Day-0 verification-focused Pink Paper Page 30 Candidate Segment - Predecessor 10K COUNT 10,000 candidate observations are associated with this segment in the internal master structure. REVIEW FOCUS Cluster related entries; verify source cross-references; identify duplicates; distinguish mathematical, software, physical, product, and documentation embodiments; record enabl

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> Mj bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.MJ_PBMEF_PINK_PAPER_POTENTIA
reference "PINK-09-P0030"
state R -> R1
node N2
representation JP(PINK-09-P0030)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Potential_IP_Status_001.pdf, page 30 of 48. MJ-PBMEF PINK PAPER - POTENTIAL IP STATUS Pr
```

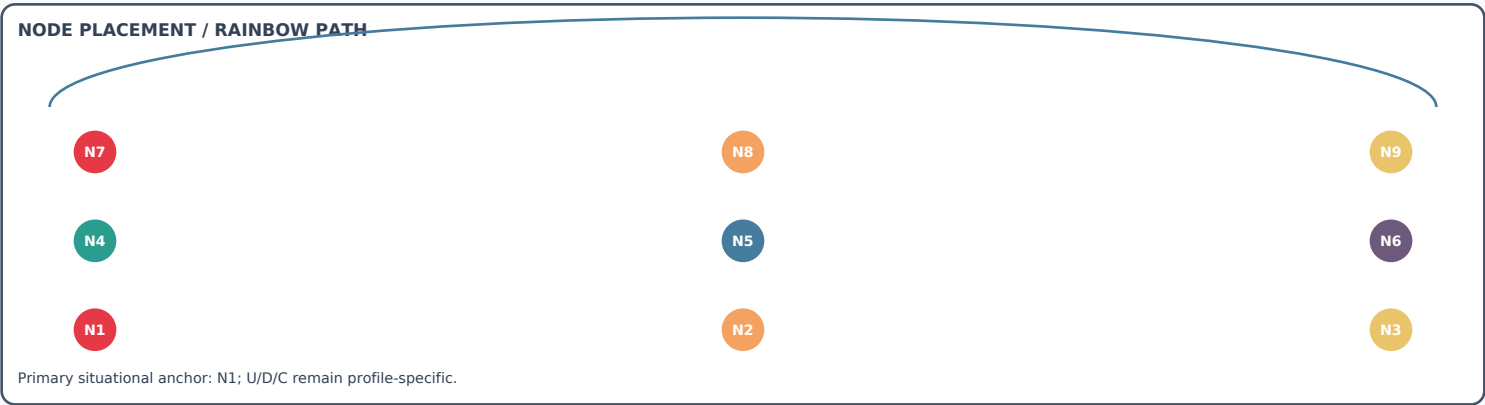


R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Potential_IP_Status_001.pdf, page 31 of 48. MJ-PBMEF PINK PAPER - POTENTIAL IP STATUS Pre-Day-0 verification-focused Pink Paper Page 31 Candidate Segment - Solar 20K COUNT 20,000 candidate observations are associated with this segment in the internal master structure. REVIEW FOCUS Cluster related entries; verify source cross-references; identify duplicates; distinguish mathematical, software, physical, product, and documentation embodiments; record enablement

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> Mj bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.MJ_PBMEF_PINK_PAPER_POTENTIA
reference "PINK-09-P0031"
state R -> R1
node N1
representation JP(PINK-09-P0031)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Potential_IP_Status_001.pdf, page 31 of 48. MJ-PBMEF PINK PAPER - POTENTIAL IP STATUS Pr
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Potential_IP_Status_001.pdf, page 32 of 48. MJ-PBMEF PINK PAPER - POTENTIAL IP STATUS Pre-Day-0 verification-focused Pink Paper Page 32 Candidate Segment - Dro Core COUNT 15,000 candidate observations are associated with this segment in the internal master structure. REVIEW FOCUS Cluster related entries; verify source cross-references; identify duplicates; distinguish mathematical, software, physical, product, and documentation embodiments; record enablement a

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.MJ_PBMEF_PINK_PAPER_POTENTIA
reference "PINK-09-P0032"
state R -> R1
node N1
representation JP(PINK-09-P0032)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Potential_IP_Status_001.pdf, page 32 of 48. MJ-PBMEF PINK PAPER - POTENTIAL IP STATUS Pr
```

NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source MJ_PBMEF_Pink_Paper_Potential_IP_Status_001.pdf, page 33 of 48. MJ-PBMEF PINK PAPER - POTENTIAL IP STATUS Pre-Day-0 verification-focused Pink Paper Page 33 Candidate Segment - Pearl Dro COUNT 10,000 candidate observations are associated with this segment in the internal master structure. REVIEW FOCUS Cluster related entries; verify source cross-references; identify duplicates; distinguish mathematical, software, physical, product, and documentation embodiments; record enablement

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.MJ_PBMEF_PINK_PAPER_POTENTIA
reference "PINK-09-P0033"
state R -> R1
node N1
representation JP(PINK-09-P0033)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Potential_IP_Status_001.pdf, page 33 of 48. MJ-PBMEF PINK PAPER - POTENTIAL IP STATUS Pr
```

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source MJ_PBMEF_Pink_Paper_Potential_IP_Status_001.pdf, page 34 of 48. MJ-PBMEF PINK PAPER - POTENTIAL IP STATUS Pre-Day-0 verification-focused Pink Paper Page 34 Candidate Segment - Dro Start Restart COUNT 10,000 candidate observations are associated with this segment in the internal master structure. REVIEW FOCUS Cluster related entries; verify source cross-references; identify duplicates; distinguish mathematical, software, physical, product, and documentation embodiments; record ena

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.MJ_PBMEF_PINK_PAPER_POTENTIA
reference "PINK-09-P0034"
state R -> R1
node N6
representation JP(PINK-09-P0034)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Potential_IP_Status_001.pdf, page 34 of 48. MJ-PBMEF PINK PAPER - POTENTIAL IP STATUS Pr
```

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

Source Rule / Intent

Pink source MJ_PBMEF_Pink_Paper_Potential_IP_Status_001.pdf, page 35 of 48. MJ-PBMEF PINK PAPER - POTENTIAL IP STATUS Pre-Day-0 verification-focused Pink Paper Page 35 Candidate Segment - Lecanto COUNT 10,000 candidate observations are associated with this segment in the internal master structure. REVIEW FOCUS Cluster related entries; verify source cross-references; identify duplicates; distinguish mathematical, software, physical, product, and documentation embodiments; record enablement an

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

module MJ.Rainbow.MJ_PBMEF_PINK_PAPER_POTENTIA
reference "PINK-09-P0035"
state R -> R1
node N1
representation JP(PINK-09-P0035)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
Pink source MJ_PBMEF_Pink_Paper_Potential_IP_Status_001.pdf, page 35 of 48. MJ-PBMEF PINK PAPER - POTENTIAL IP STATUS Pr

Node Placement / Rainbow Path



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source MJ_PBMEF_Pink_Paper_Potential_IP_Status_001.pdf, page 36 of 48. MJ-PBMEF PINK PAPER - POTENTIAL IP STATUS Pre-Day-0 verification-focused Pink Paper Page 36 Candidate Segment - Semiconductor COUNT 10,000 candidate observations are associated with this segment in the internal master structure. REVIEW FOCUS Cluster related entries; verify source cross-references; identify duplicates; distinguish mathematical, software, physical, product, and documentation embodiments; record enablem

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.MJ_PBMEF_PINK_PAPER_POTENTIA
reference "PINK-09-P0036"
state R -> R1
node N1
representation JP(PINK-09-P0036)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Potential_IP_Status_001.pdf, page 36 of 48. MJ-PBMEF PINK PAPER - POTENTIAL IP STATUS Pr
```

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

Source Rule / Intent

Pink source MJ_PBMEF_Pink_Paper_Potential_IP_Status_001.pdf, page 37 of 48. MJ-PBMEF PINK PAPER - POTENTIAL IP STATUS Pre-Day-0 verification-focused Pink Paper Page 37 Candidate Segment - Cross System COUNT 5,000 candidate observations are associated with this segment in the internal master structure. REVIEW FOCUS Cluster related entries; verify source cross-references; identify duplicates; distinguish mathematical, software, physical, product, and documentation embodiments; record enablemen

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

module MJ.Rainbow.MJ_PBMEF_PINK_PAPER_POTENTIA
reference "PINK-09-P0037"
state R -> R1
node N1
representation JP(PINK-09-P0037)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
Pink source MJ_PBMEF_Pink_Paper_Potential_IP_Status_001.pdf, page 37 of 48. MJ-PBMEF PINK PAPER - POTENTIAL IP STATUS Pr



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Potential_IP_Status_001.pdf, page 38 of 48. MJ-PBMEF PINK PAPER - POTENTIAL IP STATUS Pre-Day-0 verification-focused Pink Paper Page 38 Algorithm Candidate Example SUMMARY A formula may support multiple candidates: a measurement method, a typed software implementation, an uncertainty protocol, a control-volume application, a product-specific embodiment, or an evidence-verification process. These are review lenses, not automatically distinct inventions. GATEWAY

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> Mj bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.MJ_PBMEF_PINK_PAPER_POTENTIA
reference "PINK-09-P0038"
state R -> R1
node N1
representation JP(PINK-09-P0038)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Potential_IP_Status_001.pdf, page 38 of 48. MJ-PBMEF PINK PAPER - POTENTIAL IP STATUS Pr
```

NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source MJ_PBMEF_Pink_Paper_Potential_IP_Status_001.pdf, page 39 of 48. MJ-PBMEF PINK PAPER - POTENTIAL IP STATUS Pre-Day-0 verification-focused Pink Paper Page 39 Family Interface Candidate Example SUMMARY A participant handoff may raise candidates around typed receipts, non-substitutable authority, failure recovery, cross-profile isolation, or evidence custody. The legal significance depends on the actual technical contribution and prior art. GATEWAY MJ purpose -> Bangel -> Elsa -> JP

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```

module MJ.Rainbow.MJ_PBMEF_PINK_PAPER_POTENTIA
reference "PINK-09-P0039"
state R -> R1
node N1
representation JP(PINK-09-P0039)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Potential_IP_Status_001.pdf, page 39 of 48. MJ-PBMEF PINK PAPER - POTENTIAL IP STATUS Pr

```

NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source MJ_PBMEF_Pink_Paper_Potential_IP_Status_001.pdf, page 40 of 48. MJ-PBMEF PINK PAPER - POTENTIAL IP STATUS Pre-Day-0 verification-focused Pink Paper Page 40 Product Candidate Example SUMMARY A product paper may disclose a system, method, user interface, data structure, test process, and alternative embodiment. Each must be reviewed against the disclosure and actual contribution rather than counted automatically. GATEWAY MJ purpose -> Bangel -> Elsa -> JP -> MK -> JO -> evidence pa

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```

module MJ.Rainbow.MJ_PBMEF_PINK_PAPER_POTENTIA
reference "PINK-09-P0040"
state R -> R1
node N1
representation JP(PINK-09-P0040)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Potential_IP_Status_001.pdf, page 40 of 48. MJ-PBMEF PINK PAPER - POTENTIAL IP STATUS Pr
    
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Potential_IP_Status_001.pdf, page 41 of 48. MJ-PBMEF PINK PAPER - POTENTIAL IP STATUS Pre-Day-0 verification-focused Pink Paper Page 41 Physical-Hypothesis Candidate Example SUMMARY Pearl, DRO, containment, reservoir, acoustic, hydrogen, propulsion, and other physical hypotheses remain subject to evidence and enablement review. Internal equations alone do not prove feasibility. GATEWAY MJ purpose -> Bangel -> Elsa -> JP -> MK -> JO -> evidence participants ->

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> Mj bounded decision -> JO evidence.

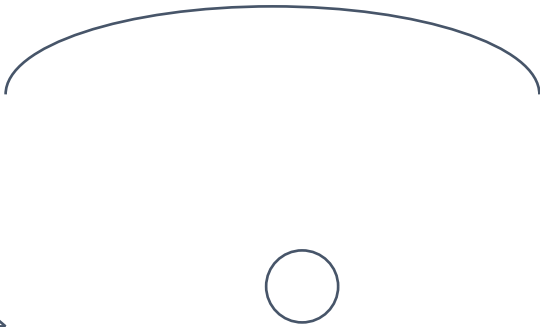
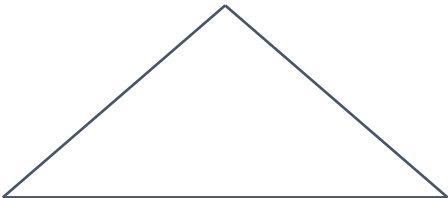
CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.MJ_PBMEF_PINK_PAPER_POTENTIA
reference "PINK-09-P0041"
state R -> R1
node N1
representation JP(PINK-09-P0041)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Potential_IP_Status_001.pdf, page 41 of 48. MJ-PBMEF PINK PAPER - POTENTIAL IP STATUS Pr
```

NODE PLACEMENT / RAINBOW PATH



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.



R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

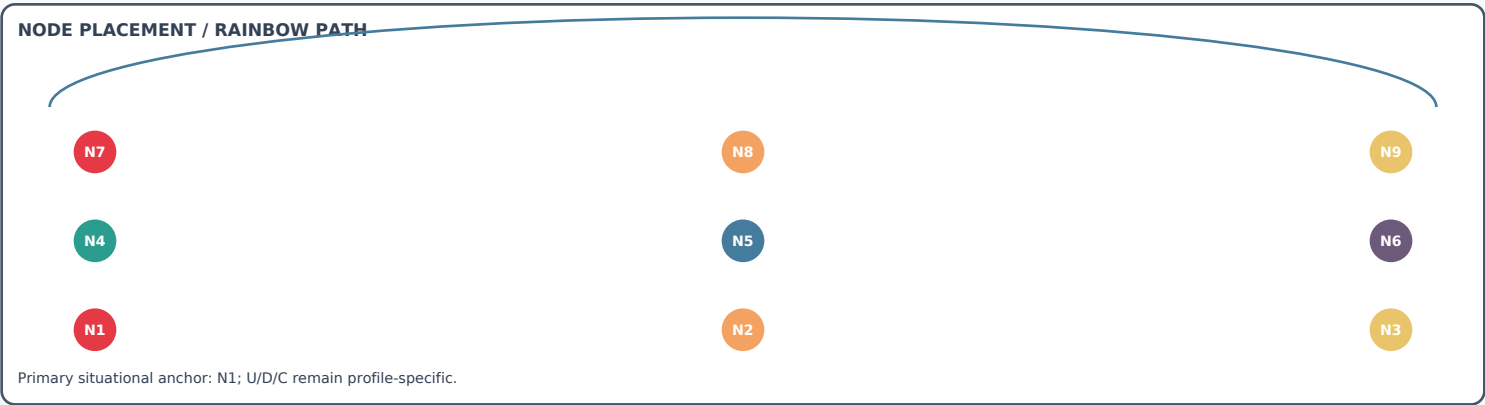
Pink source MJ_PBMEF_Pink_Paper_Potential_IP_Status_001.pdf, page 42 of 48. MJ-PBMEF PINK PAPER - POTENTIAL IP STATUS Pre-Day-0 verification-focused Pink Paper Page 42 Software Candidate Example SUMMARY Bangel, JO, Lecanto, Spreadsheets, provenance, receipts, and proof graphs may present software or information-processing candidates. Eligibility, novelty, non-obviousness, and enablement still require claim-specific review. GATEWAY MJ purpose -> Bangel -> Elsa -> JP -> MK -> JO -> evidence pa

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.MJ_PBMEF_PINK_PAPER_POTENTIA
reference "PINK-09-P0042"
state R -> R1
node N5
representation JP(PINK-09-P0042)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Potential_IP_Status_001.pdf, page 42 of 48. MJ-PBMEF PINK PAPER - POTENTIAL IP STATUS Pr
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Potential_IP_Status_001.pdf, page 43 of 48. MJ-PBMEF PINK PAPER - POTENTIAL IP STATUS Pre-Day-0 verification-focused Pink Paper Page 43 Confidentiality Checklist SUMMARY Limit access; use explicit terms; encrypt storage; log recipients; avoid public posting; mark pending status; separate public and confidential versions; document disclosure dates; use contributor and assignment agreements. GATEWAY MJ purpose -> Bangel -> Elsa -> JP -> MK -> JO -> evidence part

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> Mj bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.MJ_PBMEF_PINK_PAPER_POTENTIA
reference "PINK-09-P0043"
state R -> R1
node N1
representation JP(PINK-09-P0043)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Potential_IP_Status_001.pdf, page 43 of 48. MJ-PBMEF PINK PAPER - POTENTIAL IP STATUS Pr
```

NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source MJ_PBMEF_Pink_Paper_Potential_IP_Status_001.pdf, page 44 of 48. MJ-PBMEF PINK PAPER - POTENTIAL IP STATUS Pre-Day-0 verification-focused Pink Paper Page 44 Founder IP Review Checklist SUMMARY Confirm the source, date, contributor, technical problem, proposed solution, alternatives, evidence, known prior art, business value, disclosure status, and desired next action for each priority cluster. GATEWAY MJ purpose -> Bangel -> Elsa -> JP -> MK -> JO -> evidence participants -> M3 ->

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```

module MJ.Rainbow.MJ_PBMEF_PINK_PAPER_POTENTIA
reference "PINK-09-P0044"
state R -> R1
node N1
representation JP(PINK-09-P0044)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Potential_IP_Status_001.pdf, page 44 of 48. MJ-PBMEF PINK PAPER - POTENTIAL IP STATUS Pr

```

Node Placement / Rainbow Path



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

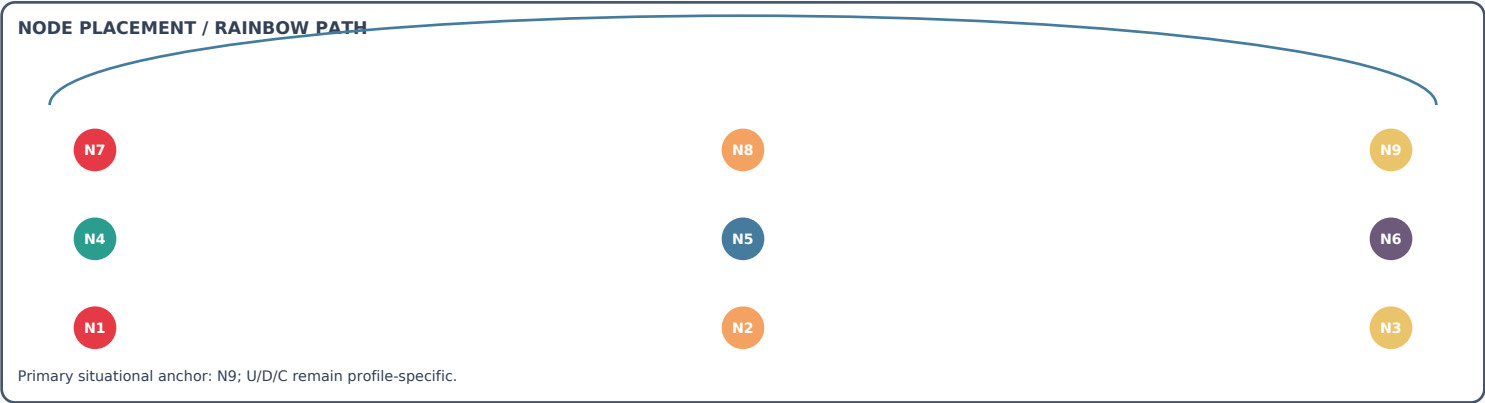
R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Potential_IP_Status_001.pdf, page 45 of 48. MJ-PBMEF PINK PAPER - POTENTIAL IP STATUS Pre-Day-0 verification-focused Pink Paper Page 45 IP Pink Paper Conclusion SUMMARY The 90,000-point register is a thorough internal candidate map and a strong starting point for counsel. Its value lies in structured traceability and review prompts, not in implying that 90,000 rights already exist. GATEWAY MJ purpose -> Bangel -> Elsa -> JP -> MK -> JO -> evidence participants

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.MJ_PBMEF_PINK_PAPER_POTENTIA
reference "PINK-09-P0045"
state R -> R1
node N1
representation JP(PINK-09-P0045)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Potential_IP_Status_001.pdf, page 45 of 48. MJ-PBMEF PINK PAPER - POTENTIAL IP STATUS Pr
```

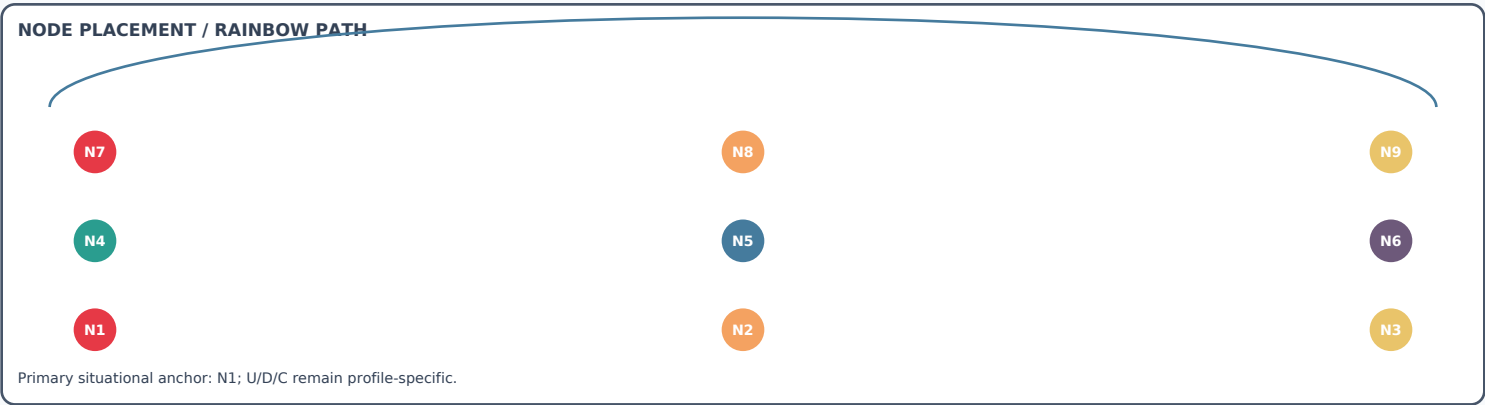



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Potential_IP_Status_001.pdf, page 46 of 48. MJ-PBMEF PINK PAPER - POTENTIAL IP STATUS Pre-Day-0 verification-focused Pink Paper Page 46 Pending IP Review Reference - Part 46 REFERENCE This page preserves a categorized review lens for the 90,000-point register and associated technical sources. QUESTIONS Is the source specific? Is the contribution human-authored? Is the concept enabled? Is it distinct from known art? Is it confidential? Does it overlap another p

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> Mj bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.MJ_PBMEF_PINK_PAPER_POTENTIA
reference "PINK-09-P0046"
state R -> R1
node N9
representation JP(PINK-09-P0046)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Potential_IP_Status_001.pdf, page 46 of 48. MJ-PBMEF PINK PAPER - POTENTIAL IP STATUS Pr
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Potential_IP_Status_001.pdf, page 47 of 48. MJ-PBMEF PINK PAPER - POTENTIAL IP STATUS Pre-Day-0 verification-focused Pink Paper Page 47 Pending IP Review Reference - Part 47 REFERENCE This page preserves a categorized review lens for the 90,000-point register and associated technical sources. QUESTIONS Is the source specific? Is the contribution human-authored? Is the concept enabled? Is it distinct from known art? Is it confidential? Does it overlap another p

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> Mj bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.MJ_PBMEF_PINK_PAPER_POTENTIA
reference "PINK-09-P0047"
state R -> R1
node N1
representation JP(PINK-09-P0047)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Potential_IP_Status_001.pdf, page 47 of 48. MJ-PBMEF PINK PAPER - POTENTIAL IP STATUS Pr
```

Node Placement / Rainbow Path



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Potential_IP_Status_001.pdf, page 48 of 48. MJ-PBMEF PINK PAPER - POTENTIAL IP STATUS Pre-Day-0 verification-focused Pink Paper Page 48 Potential IP Pink Paper Closing Receipt DOCUMENT STATUS 48-page internal reference; final included pending local founder signature. MASTER COUNT 90,000 candidate observations in the current master manifest. NO-RIGHTS EFFECT Ownership, inventorship, novelty, patentability, validity, enforceability, infringement, freedom to oper

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.MJ_PBMEF_PINK_PAPER_POTENTIA
reference "PINK-09-P0048"
state R -> R1
node N1
representation JP(PINK-09-P0048)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Potential_IP_Status_001.pdf, page 48 of 48. MJ-PBMEF PINK PAPER - POTENTIAL IP STATUS Pr
```

NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

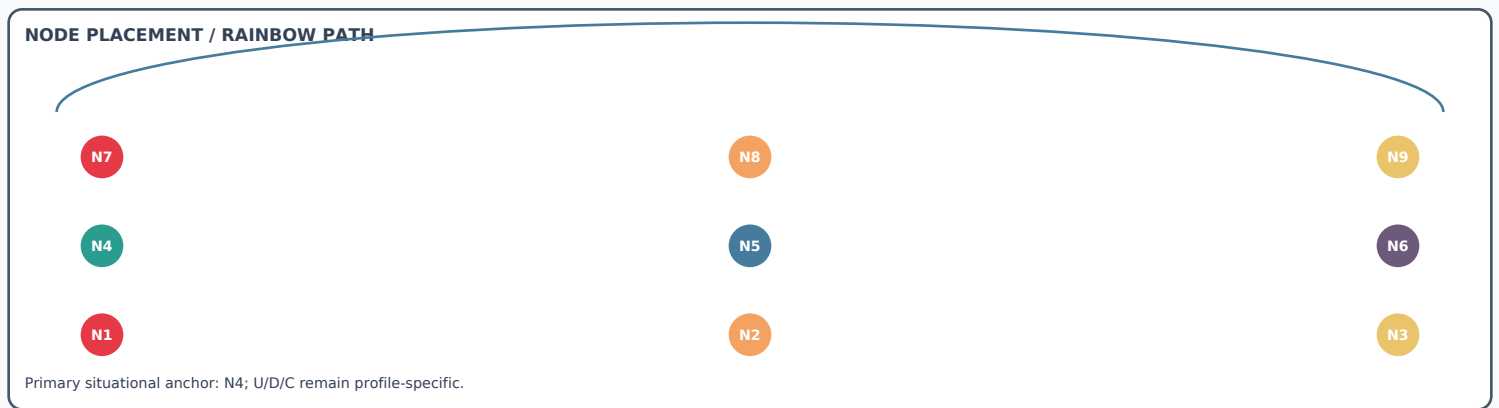
Pink source MJ_PBMCF_Pink_Paper_Testing_Evidence_001.pdf, page 1 of 48.
MJ-PBMCF PINK PAPER - TESTING EVIDENCE Pre-Day-0 verification-focused Pink
Paper Page 1 Testing Evidence Pink Paper - Scope and Evidence Ceiling
PURPOSE This Pink Paper organizes the completed reference tests, scenario
runs, repository checks, documentation QA, historical receipts, and remaining
evidence holds. It does not convert passing software tests into physical
validation, certification, legal compliance, or op

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.MJ_PBMEF_PINK_PAPER_TESTING_
reference "PINK-10-P0001"
state R -> R1
node N1
representation JP(PINK-10-P0001)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Testing_Evidence_001.pdf, page 1 of 48. MJ-PBMEF PINK PAPER - TESTING EVIDENCE Pre-Day-0
```



R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source MJ_PBMEF_Pink_Paper_Testing_Evidence_001.pdf, page 2 of 48.
 MJ-PBMEF PINK PAPER - TESTING EVIDENCE Pre-Day-0 verification-focused Pink
 Paper Page 2 Test Taxonomy and Result Vocabulary CATEGORIES Unit tests;
 formula and type tests; state-transition tests; profile-isolation tests; authority
 and ethics tests; scenario tests; repository-integrity checks; document/PDF QA;
 private-material scans; passkey prechecks; historical implementation receipts.
 RESULT STATES PASS. REFERENCE, H

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.MJ_PBMEF_PINK_PAPER_TESTING_
reference "PINK-10-P0002"
state R -> R1
node N4
representation JP(PINK-10-P0002)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Testing_Evidence_001.pdf, page 2 of 48. MJ-PBMEF PINK PAPER - TESTING EVIDENCE Pre-Day-0
```

Node Placement / Rainbow Path



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source MJ_PBMEF_Pink_Paper_Testing_Evidence_001.pdf, page 3 of 48. MJ-PBMEF PINK PAPER - TESTING EVIDENCE Pre-Day-0 verification-focused Pink Paper Page 3 Current Build Test Summary PYTEST {"failed": 0, "held": 0, "passed": 373, "transcript": "validation/PYTEST-TRANSCRIPT-R8.txt"} SCENARIO TESTS {"categories": 8, "failed": 0, "held": 0, "passed": 8192, "summary": "validation/r8-scenario-tests/R8-SCENARIO-TEST-RESULTS-SUMMARY.json"} REPOSITORY VERIFICATION {"failed": 0, "passed": 201

Path of Expression

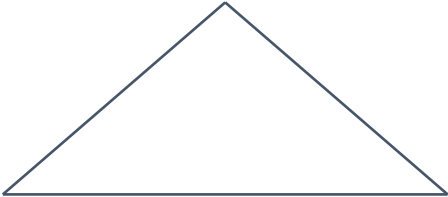
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.MJ_PBMEF_PINK_PAPER_TESTING_
reference "PINK-10-P0003"
state R -> R1
node N1
representation JP(PINK-10-P0003)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Testing_Evidence_001.pdf, page 3 of 48. MJ-PBMEF PINK PAPER - TESTING EVIDENCE Pre-Day-0
```

Node Placement / Rainbow Path









Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

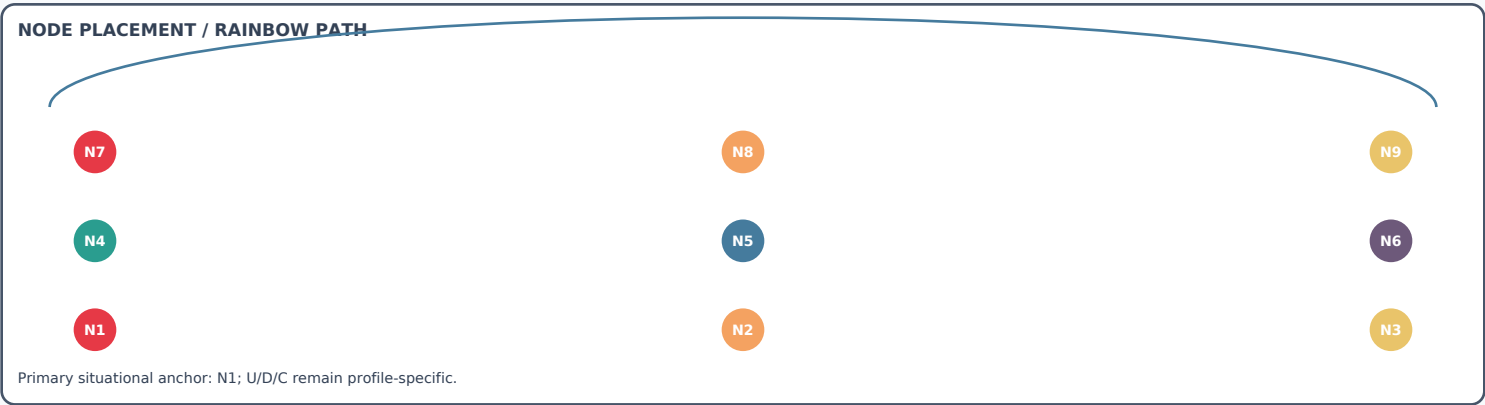
R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Testing_Evidence_001.pdf, page 4 of 48. MJ-PBMEF PINK PAPER - TESTING EVIDENCE Pre-Day-0 verification-focused Pink Paper Page 4 Scenario Category - Authority Ethics SCOPE This category contains {'fail': 0, 'pass': 1024} deterministic reference scenarios recorded in the R8 scenario summary. WHAT IT CHECKS The scenarios exercise the authority ethics rules, including expected pass, hold, fail, or deny behavior under bounded inputs. WHAT IT DOES NOT PROVE The

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.MJ_PBMEF_PINK_PAPER_TESTING_
reference "PINK-10-P0004"
state R -> R1
node N1
representation JP(PINK-10-P0004)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Testing_Evidence_001.pdf, page 4 of 48. MJ-PBMEF PINK PAPER - TESTING EVIDENCE Pre-Day-0
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Testing_Evidence_001.pdf, page 5 of 48. MJ-PBMEF PINK PAPER - TESTING EVIDENCE Pre-Day-0 verification-focused Pink Paper Page 5 Scenario Category - Dro Scale SCOPE This category contains {'fail': 0, 'pass': 1024} deterministic reference scenarios recorded in the R8 scenario summary. WHAT IT CHECKS The scenarios exercise the dro scale rules, including expected pass, hold, fail, or deny behavior under bounded inputs. WHAT IT DOES NOT PROVE The category does

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> Mj bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```

module MJ.Rainbow.MJ_PBMEF_PINK_PAPER_TESTING_
reference "PINK-10-P0005"
state R -> R1
node N1
representation JP(PINK-10-P0005)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Testing_Evidence_001.pdf, page 5 of 48. MJ-PBMEF PINK PAPER - TESTING EVIDENCE Pre-Day-0

```


Node Placement / Rainbow Path



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Testing_Evidence_001.pdf, page 6 of 48. MJ-PBMEF PINK PAPER - TESTING EVIDENCE Pre-Day-0 verification-focused Pink Paper Page 6 Scenario Category - Dro State SCOPE This category contains {'fail': 0, 'pass': 1024} deterministic reference scenarios recorded in the R8 scenario summary. WHAT IT CHECKS The scenarios exercise the dro state rules, including expected pass, hold, fail, or deny behavior under bounded inputs. WHAT IT DOES NOT PROVE The category does

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.MJ_PBMEF_PINK_PAPER_TESTING_
reference "PINK-10-P0006"
state R -> R1
node N8
representation JP(PINK-10-P0006)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Testing_Evidence_001.pdf, page 6 of 48. MJ-PBMEF PINK PAPER - TESTING EVIDENCE Pre-Day-0
```

Node Placement / Rainbow Path



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source MJ_PBMEF_Pink_Paper_Testing_Evidence_001.pdf, page 7 of 48. MJ-PBMEF PINK PAPER - TESTING EVIDENCE Pre-Day-0 verification-focused Pink Paper Page 7 Scenario Category - Lecanto SCOPE This category contains {'fail': 0, 'pass': 1024} deterministic reference scenarios recorded in the R8 scenario summary. WHAT IT CHECKS The scenarios exercise the lecanto rules, including expected pass, hold, fail, or deny behavior under bounded inputs. WHAT IT DOES NOT PROVE The category does not

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.MJ_PBMEF_PINK_PAPER_TESTING_
reference "PINK-10-P0007"
state R -> R1
node N1
representation JP(PINK-10-P0007)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Testing_Evidence_001.pdf, page 7 of 48. MJ-PBMEF PINK PAPER - TESTING EVIDENCE Pre-Day-0
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Testing_Evidence_001.pdf, page 8 of 48. MJ-PBMEF PINK PAPER - TESTING EVIDENCE Pre-Day-0 verification-focused Pink Paper Page 8 Scenario Category - Optical SCOPE This category contains {'fail': 0, 'pass': 1024} deterministic reference scenarios recorded in the R8 scenario summary. WHAT IT CHECKS The scenarios exercise the optical rules, including expected pass, hold, fail, or deny behavior under bounded inputs. WHAT IT DOES NOT PROVE The category does not

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> Mj bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.MJ_PBMEF_PINK_PAPER_TESTING_
reference "PINK-10-P0008"
state R -> R1
node N1
representation JP(PINK-10-P0008)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Testing_Evidence_001.pdf, page 8 of 48. MJ-PBMEF PINK PAPER - TESTING EVIDENCE Pre-Day-0
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Testing_Evidence_001.pdf, page 9 of 48. MJ-PBMEF PINK PAPER - TESTING EVIDENCE Pre-Day-0 verification-focused Pink Paper Page 9 Scenario Category - Pearl Node SCOPE This category contains {'fail': 0, 'pass': 1024} deterministic reference scenarios recorded in the R8 scenario summary. WHAT IT CHECKS The scenarios exercise the pearl node rules, including expected pass, hold, fail, or deny behavior under bounded inputs. WHAT IT DOES NOT PROVE The category doe

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> Mj bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.MJ_PBMEF_PINK_PAPER_TESTING_
reference "PINK-10-P0009"
state R -> R1
node N1
representation JP(PINK-10-P0009)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Testing_Evidence_001.pdf, page 9 of 48. MJ-PBMEF PINK PAPER - TESTING EVIDENCE Pre-Day-0
```

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Testing_Evidence_001.pdf, page 10 of 48. MJ-PBMEF PINK PAPER - TESTING EVIDENCE Pre-Day-0 verification-focused Pink Paper Page 10 Scenario Category - Semiconductor SCOPE This category contains {'fail': 0, 'pass': 1024} deterministic reference scenarios recorded in the R8 scenario summary. WHAT IT CHECKS The scenarios exercise the semiconductor rules, including expected pass, hold, fail, or deny behavior under bounded inputs. WHAT IT DOES NOT PROVE The categ

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.MJ_PBMEF_PINK_PAPER_TESTING_
reference "PINK-10-P0010"
state R -> R1
node N3
representation JP(PINK-10-P0010)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Testing_Evidence_001.pdf, page 10 of 48. MJ-PBMEF PINK PAPER - TESTING EVIDENCE Pre-Day-
```

Node Placement / Rainbow Path



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source MJ_PBMEF_Pink_Paper_Testing_Evidence_001.pdf, page 11 of 48. MJ-PBMEF PINK PAPER - TESTING EVIDENCE Pre-Day-0 verification-focused Pink Paper Page 11 Scenario Category - Start Reserve SCOPE This category contains {'fail': 0, 'pass': 1024} deterministic reference scenarios recorded in the R8 scenario summary. WHAT IT CHECKS The scenarios exercise the start reserve rules, including expected pass, hold, fail, or deny behavior under bounded inputs. WHAT IT DOES NOT PROVE The categ

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.MJ_PBMEF_PINK_PAPER_TESTING_
reference "PINK-10-P0011"
state R -> R1
node N1
representation JP(PINK-10-P0011)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Testing_Evidence_001.pdf, page 11 of 48. MJ-PBMEF PINK PAPER - TESTING EVIDENCE Pre-Day-
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Testing_Evidence_001.pdf, page 12 of 48. MJ-PBMEF PINK PAPER - TESTING EVIDENCE Pre-Day-0 verification-focused Pink Paper Page 12 Pytest Module - test_authority.py SCOPE 3 named test functions: test_authority_graph_acyclic, test_mj_root_and_final_decision, test_no_peer_authority_transfer_rule PRIMARY PURPOSE This module verifies the named repository logic and expected boundaries using deterministic fixtures and assertions. EVIDENCE CEILING A passing module

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.MJ_PBMEF_PINK_PAPER_TESTING_
reference "PINK-10-P0012"
state R -> R1
node N1
representation JP(PINK-10-P0012)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Testing_Evidence_001.pdf, page 12 of 48. MJ-PBMEF PINK PAPER - TESTING EVIDENCE Pre-Day-
```

Node Placement / Rainbow Path



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source MJ_PBMEF_Pink_Paper_Testing_Evidence_001.pdf, page 13 of 48. MJ-PBMEF PINK PAPER - TESTING EVIDENCE Pre-Day-0 verification-focused Pink Paper Page 13 Pytest Module - test_containment_geometry_r3.py SCOPE 21 named test functions: test_founder_reference_volume_is_about_267_ml, test_reference_moles_24mg, test_actual_density_depends_on_p_t_z, test_standard_rectangle_depth_closes_reference_volume, test_standard_cone_ratios_and_anchor, test_full_cone_volume_equals_partial_at_top, te

Path of Expression

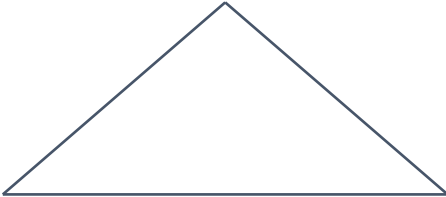
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.MJ_PBMEF_PINK_PAPER_TESTING_
reference "PINK-10-P0013"
state R -> R1
node N1
representation JP(PINK-10-P0013)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Testing_Evidence_001.pdf, page 13 of 48. MJ-PBMEF PINK PAPER - TESTING EVIDENCE Pre-Day-
```


Node Placement / Rainbow Path









Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

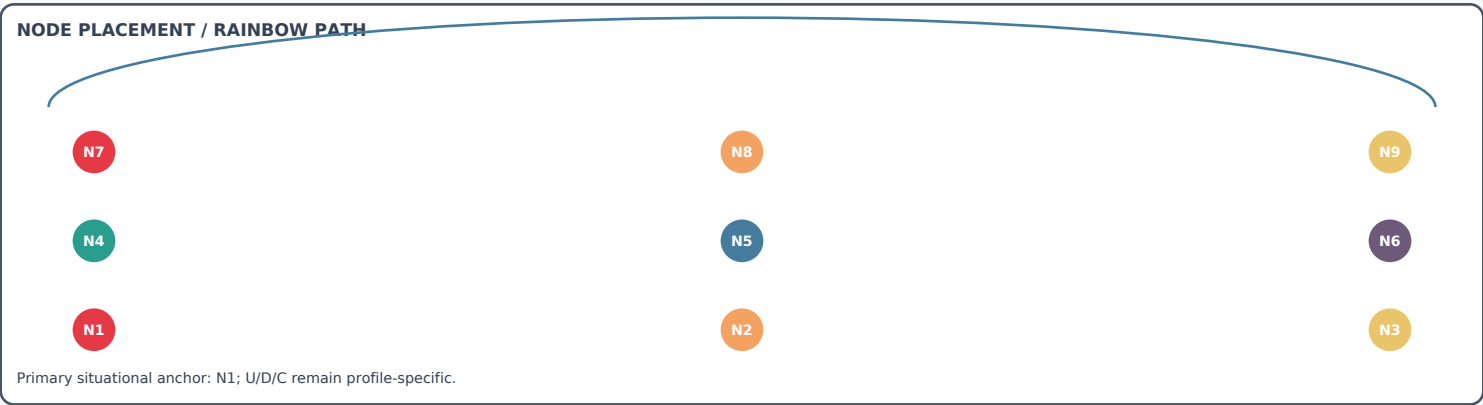
R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Testing_Evidence_001.pdf, page 14 of 48. MJ-PBMEF PINK PAPER - TESTING EVIDENCE Pre-Day-0 verification-focused Pink Paper Page 14 Pytest Module - test_Bangel_spreadsheets.py SCOPE 23 named test functions: test_sheet_values_and_formula, test_incremental_recalculation, test_unit_mismatch_fails_closed, test_mul_requires_compound_unit, test_cycle_rejected, test_missing_input_rejected, test_stale_revision_rejected, test_merge_receipt_allows_explicit_stale_write,

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.MJ_PBMEF_PINK_PAPER_TESTING_
reference "PINK-10-P0014"
state R -> R1
node N7
representation JP(PINK-10-P0014)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Testing_Evidence_001.pdf, page 14 of 48. MJ-PBMEF PINK PAPER - TESTING EVIDENCE Pre-Day-
```



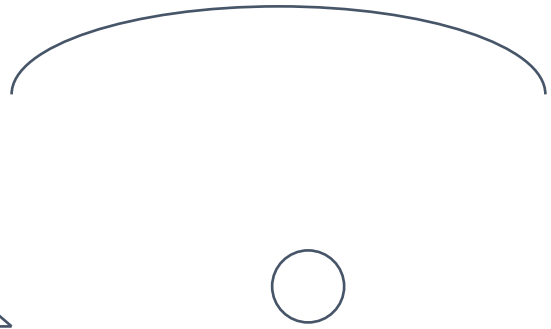
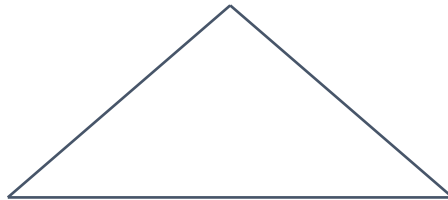
R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Testing_Evidence_001.pdf, page 15 of 48. MJ-PBMEF PINK PAPER - TESTING EVIDENCE Pre-Day-0 verification-focused Pink Paper Page 15 Pytest Module - test_formulas.py SCOPE 15 named test functions: test_formula_complete, test_front_end_exact, test_prediction_gain_positive_and_decreasing, test_smoothing, test_trend_rejects_nonpositive_dt, test_request_memory, test_preallocation, test_charge_delta, test_capacitor_energy, test_mass_residual, test_eve_screen, test_

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.MJ_PBMEF_PINK_PAPER_TESTING_
reference "PINK-10-P0015"
state R -> R1
node N1
representation JP(PINK-10-P0015)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Testing_Evidence_001.pdf, page 15 of 48. MJ-PBMEF PINK PAPER - TESTING EVIDENCE Pre-Day-
```

NODE PLACEMENT / RAINBOW PATH



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

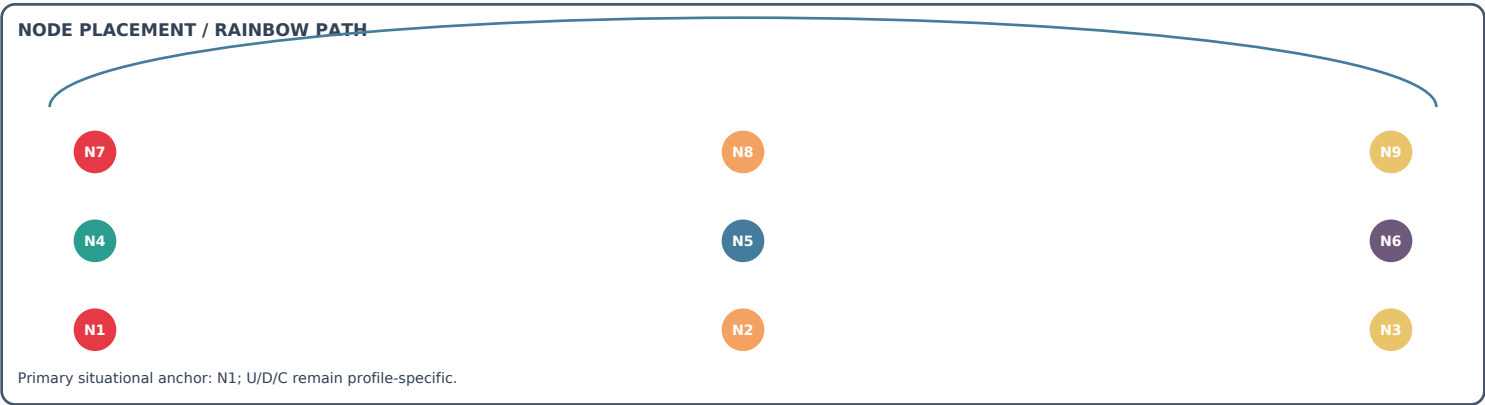
Pink source MJ_PBMEF_Pink_Paper_Testing_Evidence_001.pdf, page 16 of 48.
 MJ-PBMEF PINK PAPER - TESTING EVIDENCE Pre-Day-0 verification-focused Pink
 Paper Page 16 Pytest Module - test_identity.py SCOPE 5 named test functions:
 test_project_identity, test_day0_declaration, test_passkey_is_new_project_first,
 test_word_compendium_metadata_and_literature_are_clean,
 test_word_compendium_qa_receipt PRIMARY PURPOSE This module verifies the
 named repository logic and expected boundaries using deter

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.MJ_PBMEF_PINK_PAPER_TESTING_
reference "PINK-10-P0016"
state R -> R1
node N1
representation JP(PINK-10-P0016)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ PBMEF Pink Paper Testing Evidence_001.pdf, page 16 of 48. MJ-PBMEF PINK PAPER - TESTING EVIDENCE Pre-Day-
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Testing_Evidence_001.pdf, page 17 of 48. MJ-PBMEF PINK PAPER - TESTING EVIDENCE Pre-Day-0 verification-focused Pink Paper Page 17 Pytest Module - test_manifestations.py SCOPE 3 named test functions: test_manifestation_required_fields, test_all_manifestations_inside_mj, test_manifestation_ids_unique PRIMARY PURPOSE This module verifies the named repository logic and expected boundaries using deterministic fixtures and assertions. EVIDENCE CEILING A passing m

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> Mj bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.MJ_PBMEF_PINK_PAPER_TESTING_
reference "PINK-10-P0017"
state R -> R1
node N1
representation JP(PINK-10-P0017)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Testing_Evidence_001.pdf, page 17 of 48. MJ-PBMEF PINK PAPER - TESTING EVIDENCE Pre-Day-
```

Node Placement / Rainbow Path



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source MJ_PBMEF_Pink_Paper_Testing_Evidence_001.pdf, page 18 of 48. MJ-PBMEF PINK PAPER - TESTING EVIDENCE Pre-Day-0 verification-focused Pink Paper Page 18 Pytest Module - test_official_documentation_r6.py SCOPE 11 named test functions: test_r6_ip_review_candidate_identity, test_official_documentation_manifest_r6_counts, test_official_documentation_entries_resolve_and_hash, test_potential_ip_batch_manifest_and_register, test_potential_ip_cross_reference_completeness, test_potential_

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.MJ_PBMEF_PINK_PAPER_TESTING_
reference "PINK-10-P0018"
state R -> R1
node N2
representation JP(PINK-10-P0018)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Testing_Evidence_001.pdf, page 18 of 48. MJ-PBMEF PINK PAPER - TESTING EVIDENCE Pre-Day-
```

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source MJ_PBMEF_Pink_Paper_Testing_Evidence_001.pdf, page 19 of 48. MJ-PBMEF PINK PAPER - TESTING EVIDENCE Pre-Day-0 verification-focused Pink Paper Page 19 Pytest Module - test_pearls.py SCOPE 6 named test functions: test_simulation_geometry_math, test_pearl_is_never_physical_container, test_simulation_admission_and_transfer, test_simulation_overload_rejected, test_acoustic_profile_is_simulation_only, test_lifecycle_registry_is_nonphysical PRIMARY PURPOSE This module verifies the na

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

module MJ.Rainbow.MJ_PBMEF_PINK_PAPER_TESTING_
reference "PINK-10-P0019"
state R -> R1
node N1
representation JP(PINK-10-P0019)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
Pink source MJ_PBMEF_Pink_Paper_Testing_Evidence_001.pdf, page 19 of 48. MJ-PBMEF PINK PAPER - TESTING EVIDENCE Pre-Day-

Node Placement / Rainbow Path



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source MJ_PBMEF_Pink_Paper_Testing_Evidence_001.pdf, page 20 of 48. MJ-PBMEF PINK PAPER - TESTING EVIDENCE Pre-Day-0 verification-focused Pink Paper Page 20 Pytest Module - test_r2_integration.py SCOPE 15 named test functions: test_r2_project_identity, test_new_products_registered, test_new_objects_registered, test_pearl_simulation_manifest_claims_ceiling, test_sister_is_only_physical_containment_canon, test_Bangel_spreadsheets_manifest_intake, test_jposmj_is_non_authority, test_symp

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

module MJ.Rainbow.MJ_PBMEF_PINK_PAPER_TESTING_
reference "PINK-10-P0020"
state R -> R1
node N1
representation JP(PINK-10-P0020)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
Pink source MJ_PBMEF_Pink_Paper_Testing_Evidence_001.pdf, page 20 of 48. MJ-PBMEF PINK PAPER - TESTING EVIDENCE Pre-Day-

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

Source Rule / Intent

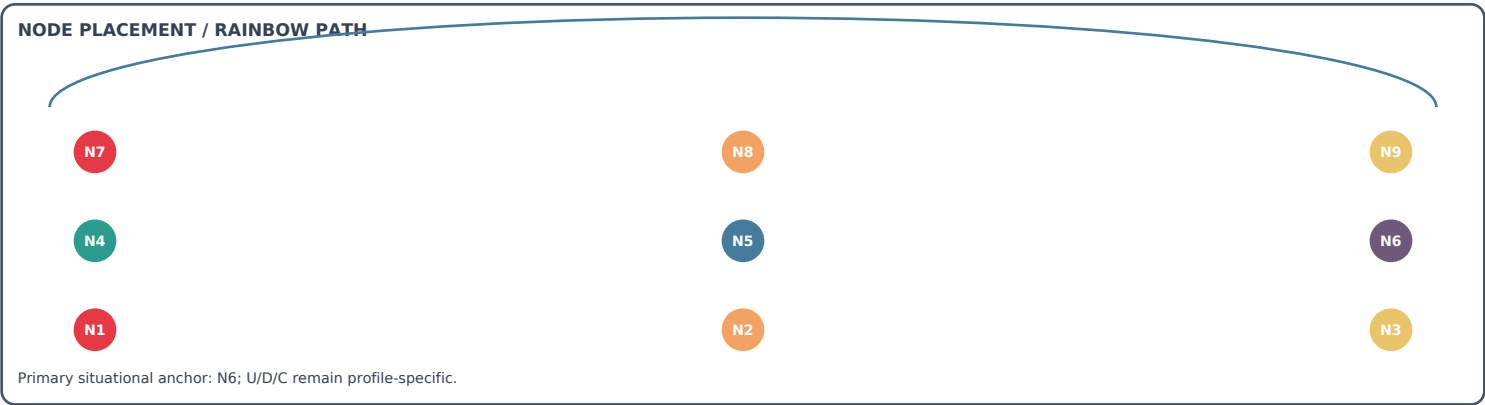
Pink source MJ_PBMEF_Pink_Paper_Testing_Evidence_001.pdf, page 21 of 48. MJ-PBMEF PINK PAPER - TESTING EVIDENCE Pre-Day-0 verification-focused Pink Paper Page 21 Pytest Module - test_r3_integration.py SCOPE 9 named test functions: test_r3_identity, test_standard_geometry_manifest, test_reference_gas_profile, test_new_object_and_product_registered, test_formula_register_has_r3_formulas, test_whitepaper_and_coverage_count, test_pearl_anchor_is_top_of_cone_and_nonphysical, test_Bangel_source

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.MJ_PBMEF_PINK_PAPER_TESTING_
reference "PINK-10-P0021"
state R -> R1
node N1
representation JP(PINK-10-P0021)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Testing_Evidence_001.pdf, page 21 of 48. MJ-PBMEF PINK PAPER - TESTING EVIDENCE Pre-Day-
```

R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Testing_Evidence_001.pdf, page 22 of 48. MJ-PBMEF PINK PAPER - TESTING EVIDENCE Pre-Day-0 verification-focused Pink Paper Page 22 Pytest Module - test_r4_integration.py SCOPE 8 named test functions: test_r4_identity_and_predecessor, test_reservoir_canon_claims_ceiling, test_formula_register_145, test_product_and_whitepaper_counts, test_new_paths_exist, test_no_same_cycle_feedback, test_perspective_friction_separation, test_main_manifest_binds_one_r4_canon P

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> Mj bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.MJ_PBMEF_PINK_PAPER_TESTING_
reference "PINK-10-P0022"
state R -> R1
node N6
representation JP(PINK-10-P0022)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Testing_Evidence_001.pdf, page 22 of 48. MJ-PBMEF PINK PAPER - TESTING EVIDENCE Pre-Day-
```

Node Placement / Rainbow Path



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source MJ_PBMEF_Pink_Paper_Testing_Evidence_001.pdf, page 23 of 48. MJ-PBMEF PINK PAPER - TESTING EVIDENCE Pre-Day-0 verification-focused Pink Paper Page 23 Pytest Module - test_r8_dro_pearl_lecanto.py SCOPE 20 named test functions: test_scale_conflict_preserved_and_conservative, test_scale_envelope_validate, test_scale_classification_unknown, test_scale_classification_r1_and_r2, test_scale_outside_hold, test_spherical_reference_positive, test_photon_count_and_optical_gate, test_dro_

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.MJ_PBMEF_PINK_PAPER_TESTING_
reference "PINK-10-P0023"
state R -> R1
node N1
representation JP(PINK-10-P0023)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Testing_Evidence_001.pdf, page 23 of 48. MJ-PBMEF PINK PAPER - TESTING EVIDENCE Pre-Day-
```

NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source MJ_PBMEF_Pink_Paper_Testing_Evidence_001.pdf, page 24 of 48. MJ-PBMEF PINK PAPER - TESTING EVIDENCE Pre-Day-0 verification-focused Pink Paper Page 24 Pytest Module - test_repository_rules.py SCOPE 7 named test functions: test_no_forbidden_names_or_ai_runtime_terms, test_no_public_remote, test_passkey_claims, test_preparatory_lineage_is_hash_only, test_no_secret_like_files, test_text_sources_have_no_disallowed_control_characters, test_content_manifest_excludes_runtime_cache_art

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.MJ_PBMEF_PINK_PAPER_TESTING_
reference "PINK-10-P0024"
state R -> R1
node N1
representation JP(PINK-10-P0024)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Testing_Evidence_001.pdf, page 24 of 48. MJ-PBMEF PINK PAPER - TESTING EVIDENCE Pre-Day-
```

Node Placement / Rainbow Path



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

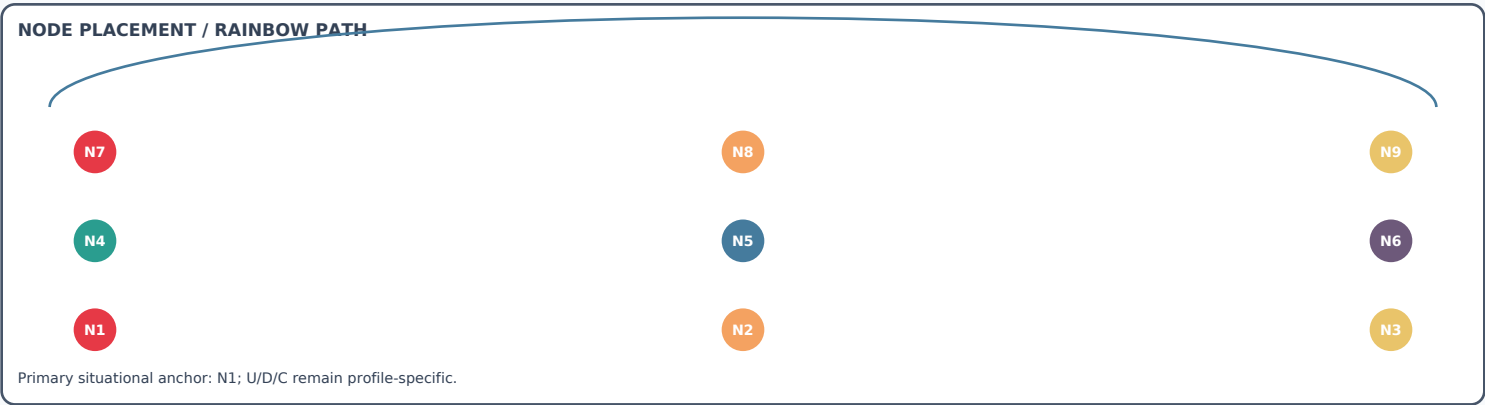
Pink source MJ_PBMEF_Pink_Paper_Testing_Evidence_001.pdf, page 25 of 48. MJ-PBMEF PINK PAPER - TESTING EVIDENCE Pre-Day-0 verification-focused Pink Paper Page 25 Pytest Module - test_reservoir_modulation_r4.py SCOPE 22 named test functions: test_backside_outlet_below_maximum, test_backside_outlet_rejects_invalid, test_reference_clearance, test_outward_gap_gate_wraps_angles, test_available_pressure_and_grade, test_reference_flow_zero_without_head, test_reference_flow_positive, test_velocit

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.MJ_PBMEF_PINK_PAPER_TESTING_
reference "PINK-10-P0025"
state R -> R1
node N1
representation JP(PINK-10-P0025)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Testing_Evidence_001.pdf, page 25 of 48. MJ-PBMEF PINK PAPER - TESTING EVIDENCE Pre-Day-
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Testing_Evidence_001.pdf, page 26 of 48. MJ-PBMEF PINK PAPER - TESTING EVIDENCE Pre-Day-0 verification-focused Pink Paper Page 26 Pytest Module - test_sister_containment.py SCOPE 6 named test functions: test_r3_topology_is_canonical, test_physical_size_has_relational_standard_but_actual_values_require_evidence, test_unknown_capacity_holds, test_reference_count_requires_values_and_has_no_effect, test_standard_geometry_can_be_constructed_without_authority, te

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> Mj bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.MJ_PBMEF_PINK_PAPER_TESTING_
reference "PINK-10-P0026"
state R -> R1
node N1
representation JP(PINK-10-P0026)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Testing_Evidence_001.pdf, page 26 of 48. MJ-PBMEF PINK PAPER - TESTING EVIDENCE Pre-Day-
```

Node Placement / Rainbow Path



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

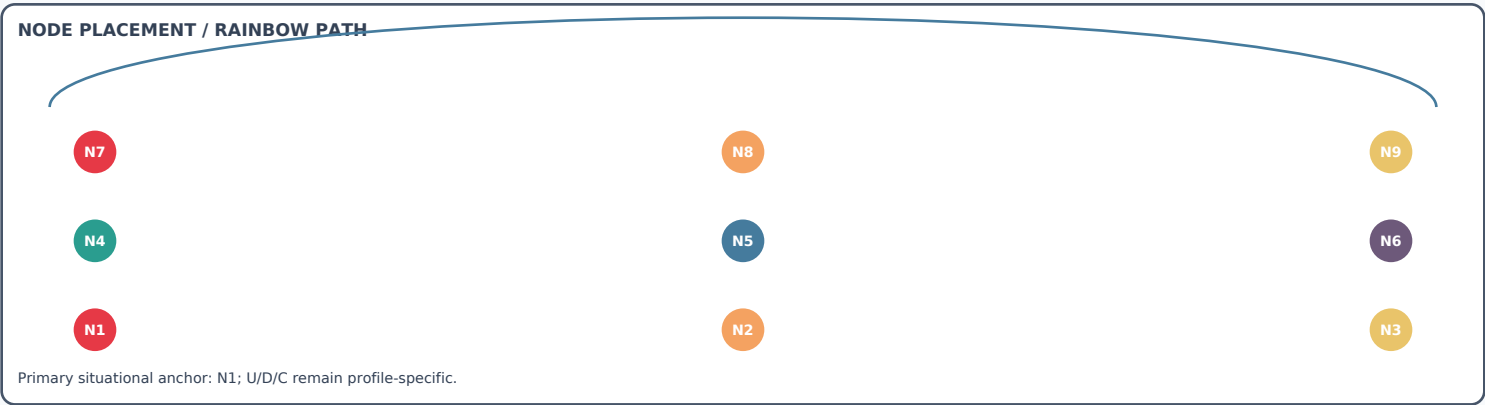
Pink source MJ_PBMEF_Pink_Paper_Testing_Evidence_001.pdf, page 27 of 48. MJ-PBMEF PINK PAPER - TESTING EVIDENCE Pre-Day-0 verification-focused Pink Paper Page 27 Pytest Module - test_solar_r7_final.py SCOPE 10 named test functions: test_r7_identity, test_exact_solar_source, test_solar_profiles, test_counts, test_formula_supplement, test_solar_papers, test_solar_ip_20k, test_master_30k, test_official_manifest_final, test_safety_holds PRIMARY PURPOSE This module verifies the named repositior

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.MJ_PBMEF_PINK_PAPER_TESTING_
reference "PINK-10-P0027"
state R -> R1
node N1
representation JP(PINK-10-P0027)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Testing_Evidence_001.pdf, page 27 of 48. MJ-PBMEF PINK PAPER - TESTING EVIDENCE Pre-Day-
```

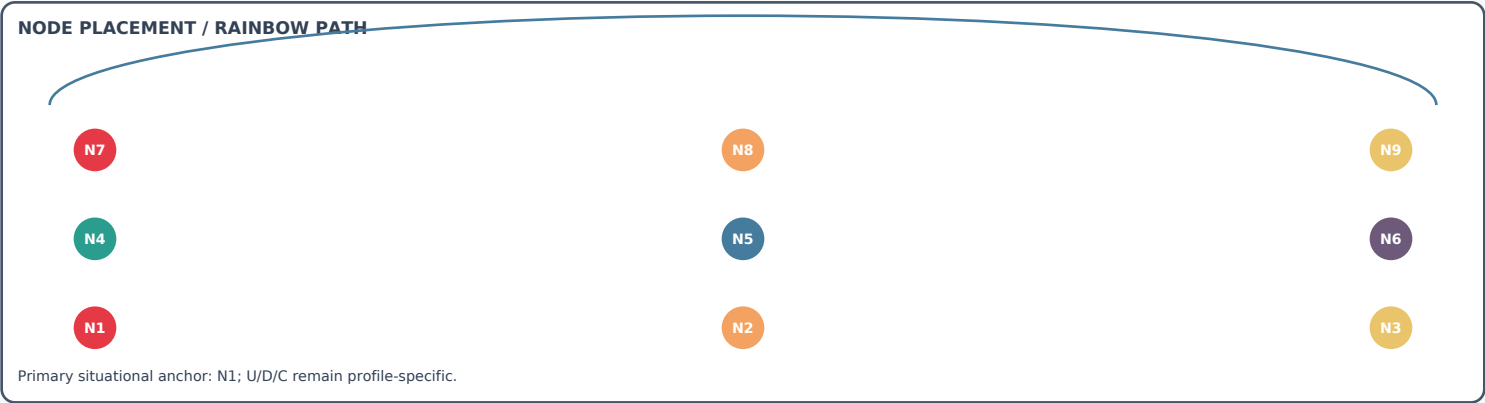


R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Testing_Evidence_001.pdf, page 28 of 48. MJ-PBMEF PINK PAPER - TESTING EVIDENCE Pre-Day-0 verification-focused Pink Paper Page 28 Pytest Module - test_whitepapers.py SCOPE 2 named test functions: test_whitepaper_exists_and_has_sections, test_whitepaper_counts PRIMARY PURPOSE This module verifies the named repository logic and expected boundaries using deterministic fixtures and assertions. EVIDENCE CEILING A passing module supports the reference implementat

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> Mj bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.MJ_PBMEF_PINK_PAPER_TESTING_
reference "PINK-10-P0028"
state R -> R1
node N1
representation JP(PINK-10-P0028)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Testing_Evidence_001.pdf, page 28 of 48. MJ-PBMEF PINK PAPER - TESTING EVIDENCE Pre-Day-
```



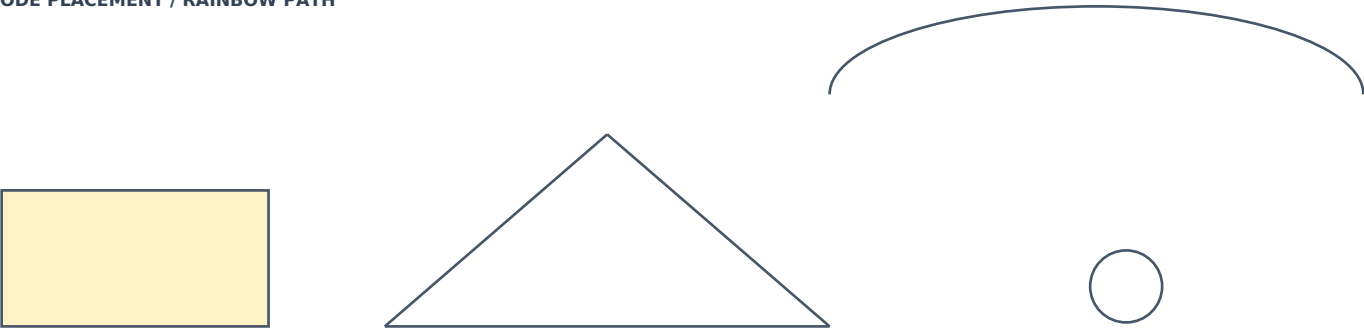
R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Testing_Evidence_001.pdf, page 29 of 48. MJ-PBMEF PINK PAPER - TESTING EVIDENCE Pre-Day-0 verification-focused Pink Paper Page 29 Repository Verification Cluster - COVERAGE RESULT 3 of 3 checks passed in the R8 repository verification receipt. EXAMPLES coverage.count=75; coverage.uncovered=0; coverage.paths= INTERPRETATION These checks establish consistency of the tracked repository and declared claims ceiling. They do not create authority or validate untes

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.MJ_PBMEF_PINK_PAPER_TESTING_
reference "PINK-10-P0029"
state R -> R1
node N1
representation JP(PINK-10-P0029)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Testing_Evidence_001.pdf, page 29 of 48. MJ-PBMEF PINK PAPER - TESTING EVIDENCE Pre-Day-
```


Node Placement / Rainbow Path



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

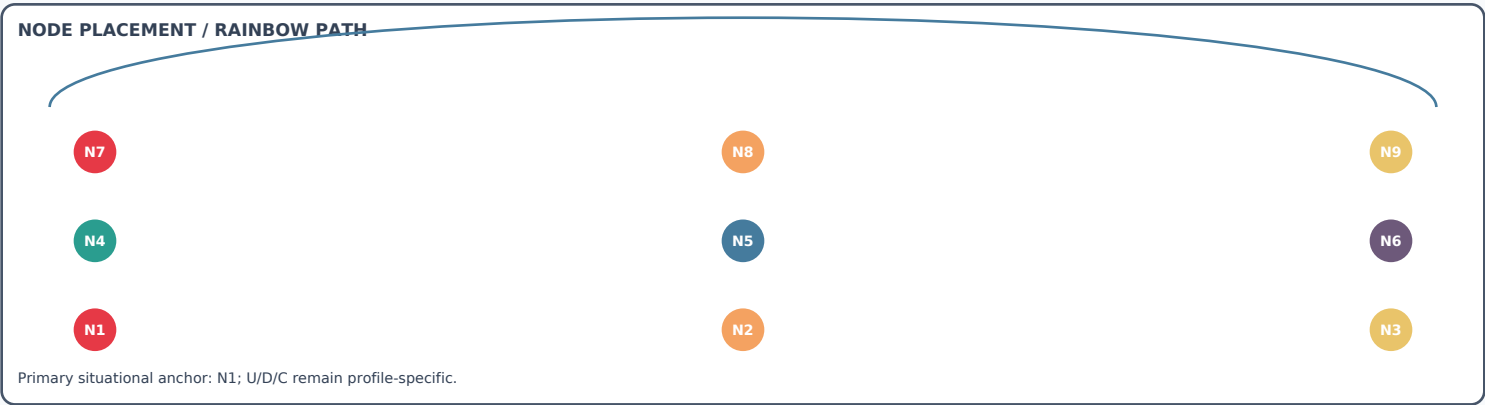
R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Testing_Evidence_001.pdf, page 30 of 48. MJ-PBMEF PINK PAPER - TESTING EVIDENCE Pre-Day-0 verification-focused Pink Paper Page 30 Repository Verification Cluster - DOCS RESULT 4 of 4 checks passed in the R8 repository verification receipt. EXAMPLES docs.approval=; docs.build=; docs.counts=; docs.entries_hash=[] INTERPRETATION These checks establish consistency of the tracked repository and declared claims ceiling. They do not create authority or validate un

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.MJ_PBMEF_PINK_PAPER_TESTING_
reference "PINK-10-P0030"
state R -> R1
node N5
representation JP(PINK-10-P0030)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Testing_Evidence_001.pdf, page 30 of 48. MJ-PBMEF PINK PAPER - TESTING EVIDENCE Pre-Day-
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Testing_Evidence_001.pdf, page 31 of 48. MJ-PBMEF PINK PAPER - TESTING EVIDENCE Pre-Day-0 verification-focused Pink Paper Page 31 Repository Verification Cluster - DRO RESULT 7 of 7 checks passed in the R8 repository verification receipt. EXAMPLES dro.no_authority=; dro.input_conflict=; dro.founder_lower=; dro.alias_lower=; dro.conservative_threshold=; dro.upper=; dro.no_physical_existence= INTERPRETATION These checks establish consistency of the tracked re

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> Mj bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.MJ_PBMEF_PINK_PAPER_TESTING_
reference "PINK-10-P0031"
state R -> R1
node N1
representation JP(PINK-10-P0031)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Testing_Evidence_001.pdf, page 31 of 48. MJ-PBMEF PINK PAPER - TESTING EVIDENCE Pre-Day-
```

Node Placement / Rainbow Path



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source MJ_PBMEF_Pink_Paper_Testing_Evidence_001.pdf, page 32 of 48. MJ-PBMEF PINK PAPER - TESTING EVIDENCE Pre-Day-0 verification-focused Pink Paper Page 32 Repository Verification Cluster - FORMULA RESULT 3 of 3 checks passed in the R8 repository verification receipt. EXAMPLES formula.count=242; formula.sequential=; formula.twelve_planes= INTERPRETATION These checks establish consistency of the tracked repository and declared claims ceiling. They do not create authority or validate

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.MJ_PBMEF_PINK_PAPER_TESTING_
reference "PINK-10-P0032"
state R -> R1
node N1
representation JP(PINK-10-P0032)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Testing_Evidence_001.pdf, page 32 of 48. MJ-PBMEF PINK PAPER - TESTING EVIDENCE Pre-Day-
```

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

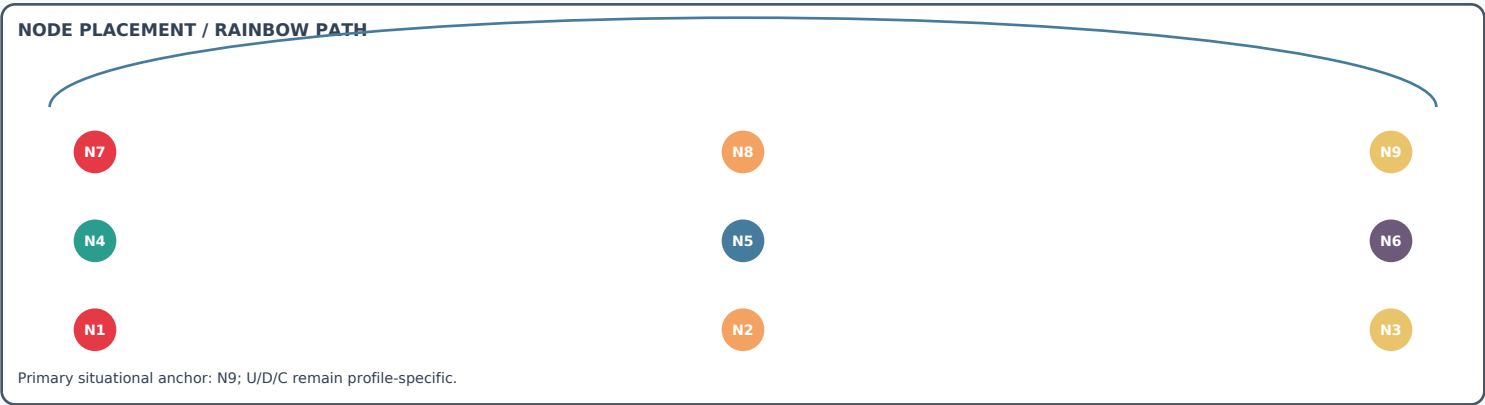
Pink source MJ_PBMEF_Pink_Paper_Testing_Evidence_001.pdf, page 33 of 48. MJ-PBMEF PINK PAPER - TESTING EVIDENCE Pre-Day-0 verification-focused Pink Paper Page 33 Repository Verification Cluster - IDENTITY RESULT 6 of 6 checks passed in the R8 repository verification receipt. EXAMPLES identity.build=MJ-PBMEF-DAY0-R8-DRO-PEARL-LECANTO-90K-FINAL; identity.predecessor=MJ-PBMEF-DAY0-R7-SOLAR-30K-FINAL; identity.author=; identity.no_ai=; identity.passkey_not_created=; identity.physical_validati

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

module MJ.Rainbow.MJ_PBMEF_PINK_PAPER_TESTING_
reference "PINK-10-P0033"
state R -> R1
node N1
representation JP(PINK-10-P0033)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
Pink source MJ_PBMEF_Pink_Paper_Testing_Evidence_001.pdf, page 33 of 48. MJ-PBMEF PINK PAPER - TESTING EVIDENCE Pre-Day-



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Testing_Evidence_001.pdf, page 34 of 48. MJ-PBMEF PINK PAPER - TESTING EVIDENCE Pre-Day-0 verification-focused Pink Paper Page 34 Repository Verification Cluster - IGNITION RESULT 2 of 2 checks passed in the R8 repository verification receipt. EXAMPLES ignition.reference_only=; ignition.no_physical_authority= INTERPRETATION These checks establish consistency of the tracked repository and declared claims ceiling. They do not create authority or validate unte

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> Mj bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.MJ_PBMEF_PINK_PAPER_TESTING_
reference "PINK-10-P0034"
state R -> R1
node N9
representation JP(PINK-10-P0034)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Testing_Evidence_001.pdf, page 34 of 48. MJ-PBMEF PINK PAPER - TESTING EVIDENCE Pre-Day-
```

NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source MJ_PBMEF_Pink_Paper_Testing_Evidence_001.pdf, page 35 of 48.
 MJ-PBMEF PINK PAPER - TESTING EVIDENCE Pre-Day-0 verification-focused Pink
 Paper Page 35 Repository Verification Cluster - IP RESULT 7 of 7 checks passed
 in the R8 repository verification receipt. EXAMPLES ip.predecessor10k=;
 ip.solar20k=; ip.r8_60k_summary=; ip.r8_60k_stream={"count": 60000, "first":
 "PIP-30001", "last": "PIP-90000"}; ip.r8_segments={"CROSS_SYSTEM": 5000,
 "DRO_CORE": 15000, "DRO_IGNITION": 10000, "L

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.MJ_PBMEF_PINK_PAPER_TESTING_
reference "PINK-10-P0035"
state R -> R1
node N1
representation JP(PINK-10-P0035)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ PBMEF Pink Paper Testing Evidence_001.pdf, page 35 of 48. MJ-PBMEF PINK PAPER - TESTING EVIDENCE Pre-Day-
```

Node Placement / Rainbow Path



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source MJ_PBMEF_Pink_Paper_Testing_Evidence_001.pdf, page 36 of 48. MJ-PBMEF PINK PAPER - TESTING EVIDENCE Pre-Day-0 verification-focused Pink Paper Page 36 Repository Verification Cluster - LECANTO RESULT 2 of 2 checks passed in the R8 repository verification receipt. EXAMPLES lecanto.source_preserved=; lecanto.intent_hypothesis= INTERPRETATION These checks establish consistency of the tracked repository and declared claims ceiling. They do not create authority or validate untested

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

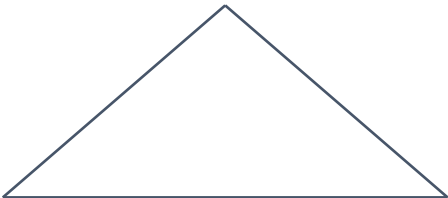
Code / Math / Process Representation

```
module MJ.Rainbow.MJ_PBMEF_PINK_PAPER_TESTING_
reference "PINK-10-P0036"
state R -> R1
node N1
representation JP(PINK-10-P0036)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Testing_Evidence_001.pdf, page 36 of 48. MJ-PBMEF PINK PAPER - TESTING EVIDENCE Pre-Day-
```

NODE PLACEMENT / RAINBOW PATH



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.



R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

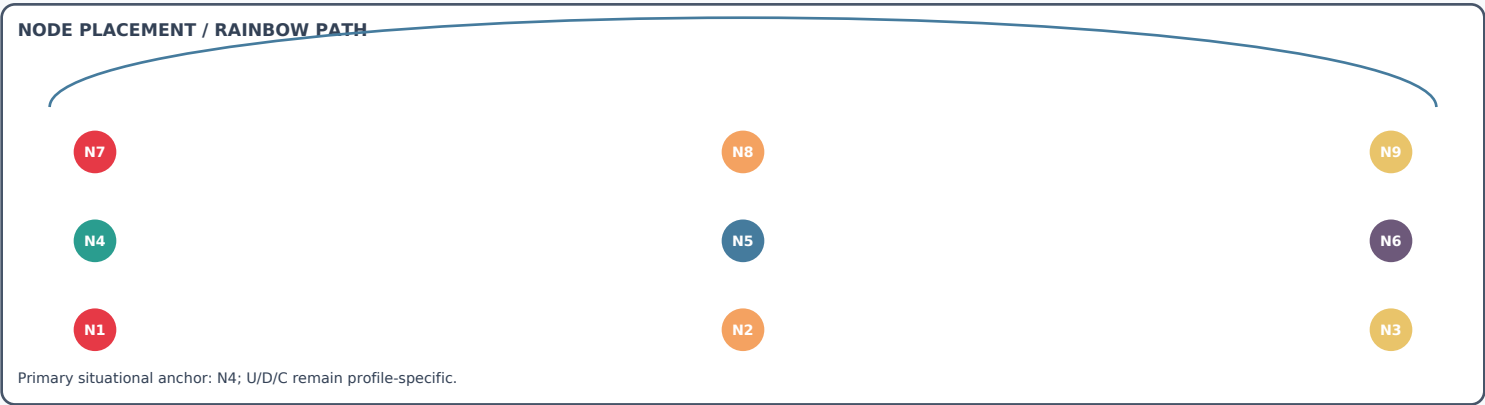
Pink source MJ_PBMEF_Pink_Paper_Testing_Evidence_001.pdf, page 37 of 48. MJ-PBMEF PINK PAPER - TESTING EVIDENCE Pre-Day-0 verification-focused Pink Paper Page 37 Repository Verification Cluster - OBJECTS RESULT 16 of 16 checks passed in the R8 repository verification receipt. EXAMPLES objects.count=53; objects.no_authority=; objects.DRO_UNIT=; objects.DRO_OPTICAL_EVIDENCE_PROFILE=; objects.DRO_PEARL_HANDOFF_RECEIPT=; objects.LECANTO_INTENT_HYPOTHESIS=; objects.DRO_START_ENERGY_PACKET=; ob

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.MJ_PBMEF_PINK_PAPER_TESTING_
reference "PINK-10-P0037"
state R -> R1
node N1
representation JP(PINK-10-P0037)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Testing_Evidence_001.pdf, page 37 of 48. MJ-PBMEF PINK PAPER - TESTING EVIDENCE Pre-Day-
```

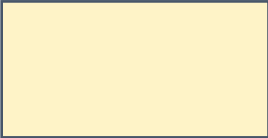
R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Testing_Evidence_001.pdf, page 38 of 48. MJ-PBMEF PINK PAPER - TESTING EVIDENCE Pre-Day-0 verification-focused Pink Paper Page 38 Repository Verification Cluster - PDF RESULT 104 of 104 checks passed in the R8 repository verification receipt. EXAMPLES pdf.exists.BATCH-000.pdf=; pdf.hash.BATCH-000.pdf=; pdf.pages.BATCH-000.pdf=; pdf.unencrypted.BATCH-000.pdf=; pdf.exists.BATCH-001.pdf=; pdf.hash.BATCH-001.pdf=; pdf.pages.BATCH-001.pdf=; pdf.unencrypted.BATCH

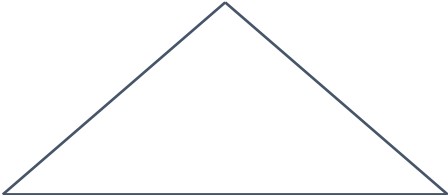
PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> Mj bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.MJ_PBMEF_PINK_PAPER_TESTING_  
reference "PINK-10-P0038"  
state R -> R1  
node N4  
representation JP(PINK-10-P0038)  
physics MK(classify, units, boundary, uncertainty)  
verify J0(types, evidence, receipts)  
if all_required_gates == PASS:  
MJ.permit -> R2 -> bounded_output  
else:  
HOLD | FAIL_TECHNICAL | DENY  
# Pink source MJ_PBMEF_Pink_Paper_Testing_Evidence_001.pdf, page 38 of 48. MJ-PBMEF PINK PAPER - TESTING EVIDENCE Pre-Day-
```

Node Placement / Rainbow Path









Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Testing_Evidence_001.pdf, page 39 of 48. MJ-PBMEF PINK PAPER - TESTING EVIDENCE Pre-Day-0 verification-focused Pink Paper Page 39 Repository Verification Cluster - PDFQA RESULT 4 of 4 checks passed in the R8 repository verification receipt. EXAMPLES pdfqa.status=; pdfqa.count=26; pdfqa.blank=0; pdfqa.visual= INTERPRETATION These checks establish consistency of the tracked repository and declared claims ceiling. They do not create authority or validate untes

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.MJ_PBMEF_PINK_PAPER_TESTING_
reference "PINK-10-P0039"
state R -> R1
node N1
representation JP(PINK-10-P0039)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Testing_Evidence_001.pdf, page 39 of 48. MJ-PBMEF PINK PAPER - TESTING EVIDENCE Pre-Day-
```

Node Placement / Rainbow Path



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source MJ_PBMEF_Pink_Paper_Testing_Evidence_001.pdf, page 40 of 48. MJ-PBMEF PINK PAPER - TESTING EVIDENCE Pre-Day-0 verification-focused Pink Paper Page 40 Repository Verification Cluster - PEARL RESULT 1 of 1 checks passed in the R8 repository verification receipt. EXAMPLES pearl.nonphysical=INTERPRETATION These checks establish consistency of the tracked repository and declared claims ceiling. They do not create authority or validate untested physical mechanisms. RECEIPT validati

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.MJ_PBMEF_PINK_PAPER_TESTING_
reference "PINK-10-P0040"
state R -> R1
node N1
representation JP(PINK-10-P0040)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Testing_Evidence_001.pdf, page 40 of 48. MJ-PBMEF PINK PAPER - TESTING EVIDENCE Pre-Day-
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Testing_Evidence_001.pdf, page 41 of 48. MJ-PBMEF PINK PAPER - TESTING EVIDENCE Pre-Day-0 verification-focused Pink Paper Page 41 Repository Verification Cluster - PRODUCTS RESULT 6 of 6 checks passed in the R8 repository verification receipt. EXAMPLES products.count=37; products.DRO-PEARL-HANDOFF-001=; products.DRO-IGNITION-REFERENCE-001=; products.DRO-COLLECTION-001=; products.JP-SC-DRO-PEARL-INTEGRATION-001=; products.LECANTO-IMAGE-TRUTH-001= INTERPRETAT

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> Mj bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.MJ_PBMEF_PINK_PAPER_TESTING_
reference "PINK-10-P0041"
state R -> R1
node N1
representation JP(PINK-10-P0041)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Testing_Evidence_001.pdf, page 41 of 48. MJ-PBMEF PINK PAPER - TESTING EVIDENCE Pre-Day-
```

Node Placement / Rainbow Path



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source MJ_PBMEF_Pink_Paper_Testing_Evidence_001.pdf, page 42 of 48. MJ-PBMEF PINK PAPER - TESTING EVIDENCE Pre-Day-0 verification-focused Pink Paper Page 42 Repository Verification Cluster - PYTEST RESULT 1 of 1 checks passed in the R8 repository verification receipt. EXAMPLES pytest.pass=373 passed in 14.59s INTERPRETATION These checks establish consistency of the tracked repository and declared claims ceiling. They do not create authority or validate untested physical mechanisms. R

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.MJ_PBMEF_PINK_PAPER_TESTING_
reference "PINK-10-P0042"
state R -> R1
node N8
representation JP(PINK-10-P0042)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Testing_Evidence_001.pdf, page 42 of 48. MJ-PBMEF PINK PAPER - TESTING EVIDENCE Pre-Day-
```

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source MJ_PBMEF_Pink_Paper_Testing_Evidence_001.pdf, page 43 of 48. MJ-PBMEF PINK PAPER - TESTING EVIDENCE Pre-Day-0 verification-focused Pink Paper Page 43 Repository Verification Cluster - R8_FORMULA RESULT 2 of 2 checks passed in the R8 repository verification receipt. EXAMPLES r8_formula.count=49; r8_formula.ids= INTERPRETATION These checks establish consistency of the tracked repository and declared claims ceiling. They do not create authority or validate untested physical mecha

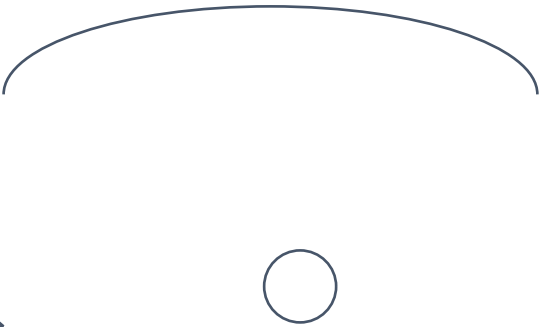
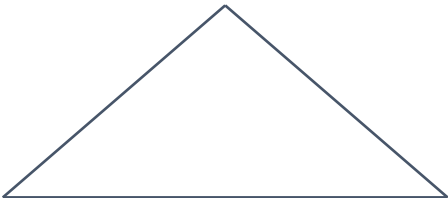
PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.MJ_PBMEF_PINK_PAPER_TESTING_
reference "PINK-10-P0043"
state R -> R1
node N1
representation JP(PINK-10-P0043)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Testing_Evidence_001.pdf, page 43 of 48. MJ-PBMEF PINK PAPER - TESTING EVIDENCE Pre-Day-
```

NODE PLACEMENT / RAINBOW PATH



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source MJ_PBMEF_Pink_Paper_Testing_Evidence_001.pdf, page 44 of 48. MJ-PBMEF PINK PAPER - TESTING EVIDENCE Pre-Day-0 verification-focused Pink Paper Page 44 Repository Verification Cluster - SCENARIO RESULT 4 of 4 checks passed in the R8 repository verification receipt. EXAMPLES scenario.count=; scenario.all_pass=; scenario.categories=; scenario.no_physical= INTERPRETATION These checks establish consistency of the tracked repository and declared claims ceiling. They do not create aut

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.MJ_PBMEF_PINK_PAPER_TESTING_
reference "PINK-10-P0044"
state R -> R1
node N1
representation JP(PINK-10-P0044)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Testing_Evidence_001.pdf, page 44 of 48. MJ-PBMEF PINK PAPER - TESTING EVIDENCE Pre-Day-
```

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

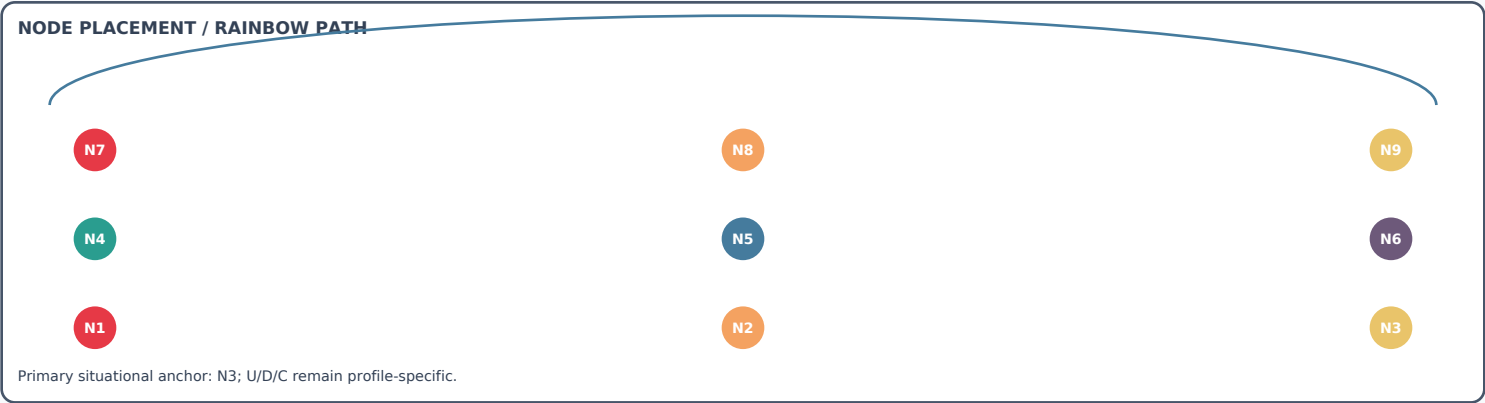
Pink source MJ_PBMEF_Pink_Paper_Testing_Evidence_001.pdf, page 45 of 48. MJ-PBMEF PINK PAPER - TESTING EVIDENCE Pre-Day-0 verification-focused Pink Paper Page 45 Repository Verification Cluster - SCOPE RESULT 14 of 14 checks passed in the R8 repository verification receipt. EXAMPLES scope.no_physical_validation_claim=; scope.no_physical_operation_authority=; scope.no_ai_system_integration=; scope.no_physical-coordinate_approval=; scope.no_physical_hydrogen_use_authority=; scope.no_vessel_

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

module MJ.Rainbow.MJ_PBMEF_PINK_PAPER_TESTING_
reference "PINK-10-P0045"
state R -> R1
node N1
representation JP(PINK-10-P0045)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
Pink source MJ_PBMEF_Pink_Paper_Testing_Evidence_001.pdf, page 45 of 48. MJ-PBMEF PINK PAPER - TESTING EVIDENCE Pre-Day-



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source MJ_PBMEF_Pink_Paper_Testing_Evidence_001.pdf, page 46 of 48. MJ-PBMEF PINK PAPER - TESTING EVIDENCE Pre-Day-0 verification-focused Pink Paper Page 46 Repository Verification Cluster - SECURITY RESULT 3 of 3 checks passed in the R8 repository verification receipt. EXAMPLES security.private_material_absent=[]; security.public_remote_absent=; security.symlinks_absent=[] INTERPRETATION These checks establish consistency of the tracked repository and declared claims ceiling. They d

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> Mj bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.MJ_PBMEF_PINK_PAPER_TESTING_
reference "PINK-10-P0046"
state R -> R1
node N3
representation JP(PINK-10-P0046)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Testing_Evidence_001.pdf, page 46 of 48. MJ-PBMEF PINK PAPER - TESTING EVIDENCE Pre-Day-
```

Node Placement / Rainbow Path



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source MJ_PBMEF_Pink_Paper_Testing_Evidence_001.pdf, page 47 of 48. MJ-PBMEF PINK PAPER - TESTING EVIDENCE Pre-Day-0 verification-focused Pink Paper Page 47 Repository Verification Cluster - SEMICONDUCTOR RESULT 1 of 1 checks passed in the R8 repository verification receipt. EXAMPLES semiconductor.physical_hold= INTERPRETATION These checks establish consistency of the tracked repository and declared claims ceiling. They do not create authority or validate untested physical mechanisms

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.MJ_PBMEF_PINK_PAPER_TESTING_
reference "PINK-10-P0047"
state R -> R1
node N1
representation JP(PINK-10-P0047)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source MJ_PBMEF_Pink_Paper_Testing_Evidence_001.pdf, page 47 of 48. MJ-PBMEF PINK PAPER - TESTING EVIDENCE Pre-Day-
```

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

Source Rule / Intent

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Pink source MJ_PBMEF_Pink_Paper_Testing_Evidence_001.pdf, page 48 of 48. MJ-PBMEF PINK PAPER - TESTING EVIDENCE Pre-Day-0 verification-focused Pink Paper Page 48 Testing Pink Paper Closing Receipt DOCUMENT STATUS 48-page internal reference; final included pending local founder signature. KNOWN COUNTS 373 R8 pytest passes; 8192 scenario passes; 201 repository checks; 0 recorded failures in those current scopes. CLAIMS CEILING No physical validation, operational authority, certification, le

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

module MJ.Rainbow.MJ_PBMEF_PINK_PAPER_TESTING_
reference "PINK-10-P0048"
state R -> R1
node N1
representation JP(PINK-10-P0048)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
Pink source MJ_PBMEF_Pink_Paper_Testing_Evidence_001.pdf, page 48 of 48. MJ-PBMEF PINK PAPER - TESTING EVIDENCE Pre-Day-

NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source DRO-IGNITION-PINK-001.pdf, page 1 of 4. INTERNAL PRE-PASSKEY REFERENCE. NOT PHYSICAL VALIDATION. NOT AN IP APPROVAL OR OWNERSHIP DETERMINATION. NO IGNITION, HYDROGEN SEPARATION, COMBUSTION, Page 1 DRO Start-Energy, Restart-Reserve, Source, Separation-Work, and Controlled-Release Lifecycle MJ-PBMEF-DAY0-R8-DRO-PEARL-LECANTO-90K-FINAL | Pink paper | DRO-IGNITION-PINK-001 INTERNAL PRE-PASSKEY REFERENCE. NOT PHYSICAL VALIDATION. NOT AN IP APPROVAL OR OWNERSHIP

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.INTERNAL_PRE_PASSKEY_REFEREN
reference "PINK-11-P0001"
state R -> R1
node N1
representation JP(PINK-11-P0001)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source DRO-IGNITION-PINK-001.pdf, page 1 of 4. INTERNAL PRE-PASSKEY REFERENCE. NOT PHYSICAL VALIDATION. NOT AN IP A
```



R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Pink source DRO-IGNITION-PINK-001.pdf, page 2 of 4. INTERNAL PRE-PASKEY REFERENCE. NOT PHYSICAL VALIDATION. NOT AN IP APPROVAL OR OWNERSHIP DETERMINATION. NO IGNITION, HYDROGEN SEPARATION, COMBUSTION, Page 2 ## Formula-by-formula lifecycle ### F-220 - DRO energy ledger Expression: `r\_E = E\_in-E\_stored-E\_start-E\_restart-E\_loss-E\_containment` Energy conservation for reference start accounting. Path: `Bangel -> Elsa -> JP -> MK -> JO -> safety/evidence -> M3 -> Mermaid/`

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

```
module MJ.Rainbow.INTERNAL_PRE_PASSKEY_REFEREN
reference "PINK-11-P0002"
state R -> R1
node N7
representation JP(PINK-11-P0002)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source DRO-IGNITION-PINK-001.pdf, page 2 of 4. INTERNAL PRE-PASSKEY REFERENCE. NOT PHYSICAL VALIDATION. NOT AN IP A
```

NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source DRO-IGNITION-PINK-001.pdf, page 3 of 4. INTERNAL PRE-PASSKEY REFERENCE. NOT PHYSICAL VALIDATION. NOT AN IP APPROVAL OR OWNERSHIP DETERMINATION. NO IGNITION, HYDROGEN SEPARATION, COMBUSTION, Page 3 Any species-separation claim requires a thermodynamic and measured energy balance. Path: `Bangel -> Elsa -> JP -> MK -> JO -> safety/evidence -> M3 -> Mermaid/Shiva -> MJ -> JO evidence`. Evidence ceiling: `REFERENCE_MODEL_OR_SIMULATION_UNTIL_CALIBRATED_PROFILE_S

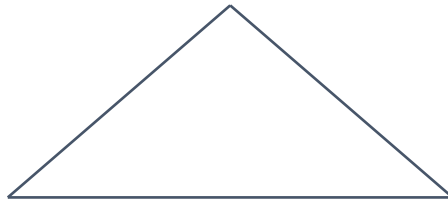
PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.INTERNAL_PRE_PASSKEY_REFEREN
reference "PINK-11-P0003"
state R -> R1
node N1
representation JP(PINK-11-P0003)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source DRO-IGNITION-PINK-001.pdf, page 3 of 4. INTERNAL PRE-PASSKEY REFERENCE. NOT PHYSICAL VALIDATION. NOT AN IP A
```

NODE PLACEMENT / RAINBOW PATH



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source DRO-IGNITION-PINK-001.pdf, page 4 of 4. INTERNAL PRE-PASKEY
REFERENCE. NOT PHYSICAL VALIDATION. NOT AN IP APPROVAL OR OWNERSHIP
DETERMINATION. NO IGNITION, HYDROGEN SEPARATION, COMBUSTION, Page
4

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.INTERNAL_PRE_PASSKEY_REFEREN
reference "PINK-11-P0004"
state R -> R1
node N1
representation JP(PINK-11-P0004)
physics MK(classify, units, boundary, uncertainty)
verify JO(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source DRO-IGNITION-PINK-001.pdf, page 4 of 4. INTERNAL PRE-PASSKEY REFERENCE. NOT PHYSICAL VALIDATION. NOT AN IP A
```

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

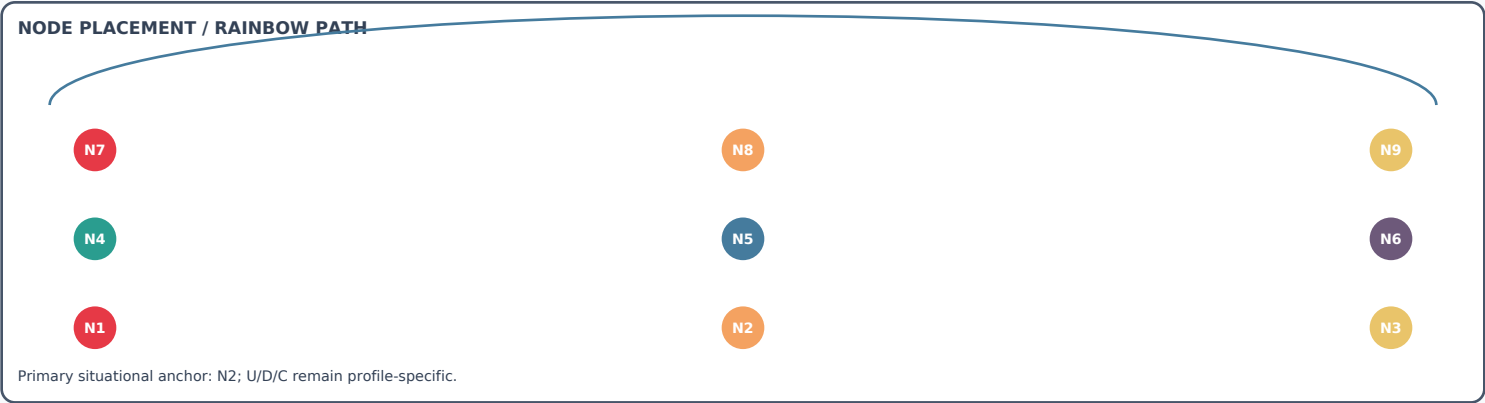
Pink source DRO-PEARL-PINK-001.pdf, page 1 of 3. INTERNAL PRE-PASSKEY REFERENCE. NOT PHYSICAL VALIDATION. NOT AN IP APPROVAL OR OWNERSHIP DETERMINATION. NO IGNITION, HYDROGEN SEPARATION, COMBUSTION, Page 1 DRO-to-Pearl Computational Node, Capacity, Handoff, and Accounting Lifecycle MJ-PBMEF-DAY0-R8-DRO-PEARL-LECANTO-90K-FINAL | Pink paper | DRO-PEARL-PINK-001 INTERNAL PRE-PASSKEY REFERENCE. NOT PHYSICAL VALIDATION. NOT AN IP APPROVAL OR OWNERSHIP DETERMINATION. NO

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.INTERNAL_PRE_PASSKEY_REFEREN
reference "PINK-12-P0001"
state R -> R1
node N1
representation JP(PINK-12-P0001)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source DRO-PEARL-PINK-001.pdf, page 1 of 3. INTERNAL PRE-PASSKEY REFERENCE. NOT PHYSICAL VALIDATION. NOT AN IP APPR
```

R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source DRO-PEARL-PINK-001.pdf, page 2 of 3. INTERNAL PRE-PASSKEY REFERENCE. NOT PHYSICAL VALIDATION. NOT AN IP APPROVAL OR OWNERSHIP DETERMINATION. NO IGNITION, HYDROGEN SEPARATION, COMBUSTION, Page 2 ## Formula-by-formula lifecycle ### F-203 - DRO remainder Expression: `Q_rem = Q_observed - N_DRO*q_unit` Unallocated typed remainder; never silently discarded. Path: `Bangel -> Elsa -> JP -> MK -> JO -> safety/evidence -> M3 -> Mermaid/Shiva -> MJ -> JO evidence

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.INTERNAL_PRE_PASSKEY_REFEREN
reference "PINK-12-P0002"
state R -> R1
node N2
representation JP(PINK-12-P0002)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source DRO-PEARL-PINK-001.pdf, page 2 of 3. INTERNAL PRE-PASSKEY REFERENCE. NOT PHYSICAL VALIDATION. NOT AN IP APPR
```

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source DRO-PEARL-PINK-001.pdf, page 3 of 3. INTERNAL PRE-PASSKEY REFERENCE. NOT PHYSICAL VALIDATION. NOT AN IP APPROVAL OR OWNERSHIP DETERMINATION. NO IGNITION, HYDROGEN SEPARATION, COMBUSTION, Page 3 Lifecycle and authority Every path preserves MJ -> Bangel -> Elsa -> JP -> MK -> JO -> evidence -> M3 -> Mermaid/Shiva -> MJ bounded decision -> JO evidence. No model, proof, or passkey creates physical operation authority.

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.INTERNAL_PRE_PASSKEY_REFEREN
reference "PINK-12-P0003"
state R -> R1
node N1
representation JP(PINK-12-P0003)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source DRO-PEARL-PINK-001.pdf, page 3 of 3. INTERNAL PRE-PASSKEY REFERENCE. NOT PHYSICAL VALIDATION. NOT AN IP APPR
```

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source DRO-PINK-001.pdf, page 1 of 7. INTERNAL PRE-PASSKEY REFERENCE. NOT PHYSICAL VALIDATION. NOT AN IP APPROVAL OR OWNERSHIP DETERMINATION. NO IGNITION, HYDROGEN SEPARATION, COMBUSTION, Page 1 DRO Gateway, Scale, State, Optical Evidence, and Collection Lifecycle MJ-PBMEF-DAY0-R8-DRO-PEARL-LECANTO-90K-FINAL | Pink paper | DRO-PINK-001 INTERNAL PRE-PASSKEY REFERENCE. NOT PHYSICAL VALIDATION. NOT AN IP APPROVAL OR OWNERSHIP DETERMINATION. NO IGNITION, HYD

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

module MJ.Rainbow.INTERNAL_PRE_PASSKEY_REFEREN
reference "PINK-13-P0001"
state R -> R1
node N1
representation JP(PINK-13-P0001)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
Pink source DRO-PINK-001.pdf, page 1 of 7. INTERNAL PRE-PASSKEY REFERENCE. NOT PHYSICAL VALIDATION. NOT AN IP APPROVAL O

Node Placement / Rainbow Path



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

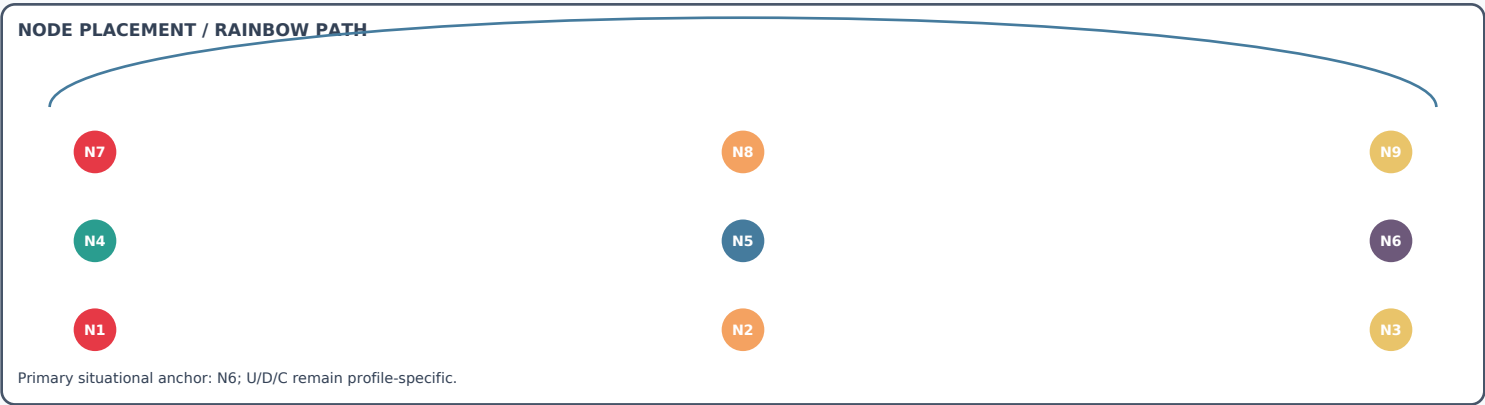
Pink source DRO-PINK-001.pdf, page 2 of 7. INTERNAL PRE-PASSKEY REFERENCE. NOT PHYSICAL VALIDATION. NOT AN IP APPROVAL OR OWNERSHIP DETERMINATION. NO IGNITION, HYDROGEN SEPARATION, COMBUSTION, Page 2 - `DRO\_COLLECTION\_RECEIPT` - `DRO\_OPTICAL\_EVIDENCE\_PROFILE` ## Formula-by-formula lifecycle ### F-194 - DRO founder lower marker Expression: `d\_A = 5e-22 m` Founder-declared theoretical lower marker; not a measured particle size. Path: `Bangel -> Elsa -> JP -> MK`

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.INTERNAL_PRE_PASSKEY_REFEREN
reference "PINK-13-P0002"
state R -> R1
node N1
representation JP(PINK-13-P0002)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source DRO-PINK-001.pdf, page 2 of 7. INTERNAL PRE-PASSKEY REFERENCE. NOT PHYSICAL VALIDATION. NOT AN IP APPROVAL O
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source DRO-PINK-001.pdf, page 3 of 7. INTERNAL PRE-PASSKEY REFERENCE. NOT PHYSICAL VALIDATION. NOT AN IP APPROVAL OR OWNERSHIP DETERMINATION. NO IGNITION, HYDROGEN SEPARATION, COMBUSTION, Page 3 Evidence ceiling: `REFERENCE_MODEL_OR_SIMULATION_UNTIL_CALIBRATED_PROFILE_SPECIFIC_EVIDENCE` Physical authority: `NONE`. ### F-200 - DRO spherical reference volume Expression: ` $V_{DRO} = 4\pi r_{DRO}^3/3$ ` Classical sphere representation only at the declared scale. P

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.INTERNAL_PRE_PASSKEY_REFEREN
reference "PINK-13-P0003"
state R -> R1
node N6
representation JP(PINK-13-P0003)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source DRO-PINK-001.pdf, page 3 of 7. INTERNAL PRE-PASSKEY REFERENCE. NOT PHYSICAL VALIDATION. NOT AN IP APPROVAL O
```

NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source DRO-PINK-001.pdf, page 4 of 7. INTERNAL PRE-PASSKEY REFERENCE. NOT PHYSICAL VALIDATION. NOT AN IP APPROVAL OR OWNERSHIP DETERMINATION. NO IGNITION, HYDROGEN SEPARATION, COMBUSTION, Page 4 Expression: `G\_R = scale\_interval\_valid AND source\_bound AND units\_valid` Eligibility for an R candidate. Path: `Bangel -> Elsa -> JP -> MK -> JO -> safety/evidence -> M3 -> Mermaid/Shiva -> MJ -> JO evidence`. Evidence ceiling: `REFERENCE_MODEL_OR_SIMULATION_UNT

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.INTERNAL_PRE_PASSKEY_REFEREN
reference "PINK-13-P0004"
state R -> R1
node N1
representation JP(PINK-13-P0004)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source DRO-PINK-001.pdf, page 4 of 7. INTERNAL PRE-PASSKEY REFERENCE. NOT PHYSICAL VALIDATION. NOT AN IP APPROVAL O
```

NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

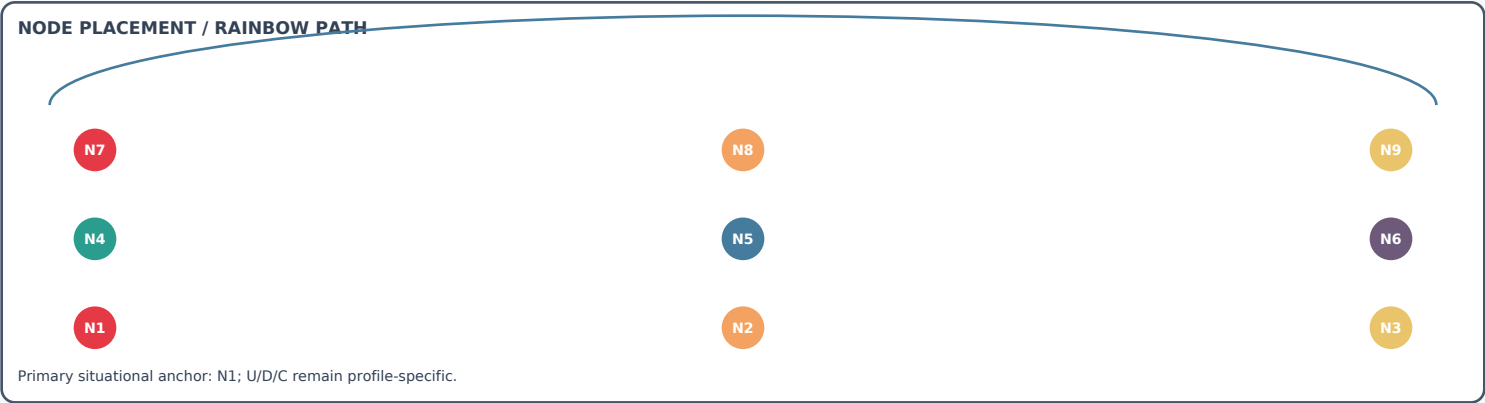
Pink source DRO-PINK-001.pdf, page 5 of 7. INTERNAL PRE-PASKEY REFERENCE. NOT PHYSICAL VALIDATION. NOT AN IP APPROVAL OR OWNERSHIP DETERMINATION. NO IGNITION, HYDROGEN SEPARATION, COMBUSTION, Page 5 Evidence ceiling:
`REFERENCE\_MODEL\_OR\_SIMULATION\_UNTIL\_CALIBRATED\_PROFILE\_SPECIFIC\_EVIDENCE`
Physical authority: `NONE`. ### F-213 - Optical admissibility Expression:
`G\_opt = calibrated\_band AND measured\_power AND eta\_c\_evidenced AND uncertainty\_valid` Optical

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.INTERNAL_PRE_PASSKEY_REFEREN
reference "PINK-13-P0005"
state R -> R1
node N1
representation JP(PINK-13-P0005)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source DRO-PINK-001.pdf, page 5 of 7. INTERNAL PRE-PASSKEY REFERENCE. NOT PHYSICAL VALIDATION. NOT AN IP APPROVAL O
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source DRO-PINK-001.pdf, page 6 of 7. INTERNAL PRE-PASSKEY REFERENCE. NOT PHYSICAL VALIDATION. NOT AN IP APPROVAL OR OWNERSHIP DETERMINATION. NO IGNITION, HYDROGEN SEPARATION, COMBUSTION, Page 6 Expression: `r_Q = Q_in-Q_alloc-Q_retained-Q_transferred-Q_escaped-Delta Q_stored` Complete quantity balance. Path: `Bangel -> Elsa -> JP -> MK -> JO -> safety/evidence -> M3 -> Mermaid/Shiva -> MJ -> JO evidence`. Evidence ceiling: `REFERENCE_MODEL_OR_SIMULATION`

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.INTERNAL_PRE_PASSKEY_REFEREN
reference "PINK-13-P0006"
state R -> R1
node N1
representation JP(PINK-13-P0006)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source DRO-PINK-001.pdf, page 6 of 7. INTERNAL PRE-PASSKEY REFERENCE. NOT PHYSICAL VALIDATION. NOT AN IP APPROVAL O
```


Node Placement / Rainbow Path



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source DRO-PINK-001.pdf, page 7 of 7. INTERNAL PRE-PASSKEY REFERENCE. NOT PHYSICAL VALIDATION. NOT AN IP APPROVAL OR OWNERSHIP DETERMINATION. NO IGNITION, HYDROGEN SEPARATION, COMBUSTION, Page 7 F-196 - DRO conservative R threshold: $d_R = \max(d_A, d_B) = 3e-21\text{ m}$ F-197 - DRO upper spherical reference: $d_U = 0.15\text{ nm} = 1.5e-10\text{ m}$ F-198 - DRO declared interval: d in $[d_R, d_U]$ F-199 - DRO reference radius: $r_{DRO} = d/2$ F-200 - DRO spherical reference volume: V_D

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.INTERNAL_PRE_PASSKEY_REFEREN
reference "PINK-13-P0007"
state R -> R1
node N1
representation JP(PINK-13-P0007)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source DRO-PINK-001.pdf, page 7 of 7. INTERNAL PRE-PASSKEY REFERENCE. NOT PHYSICAL VALIDATION. NOT AN IP APPROVAL O
```

Node Placement / Rainbow Path

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source LECANTO-PINK-001.pdf, page 1 of 3. INTERNAL PRE-PASSKEY REFERENCE. NOT PHYSICAL VALIDATION. NOT AN IP APPROVAL OR OWNERSHIP DETERMINATION. NO IGNITION, HYDROGEN SEPARATION, COMBUSTION, Page 1 Lecanto Image Source, Physics, Variance, Safety, Derivative, and Intent-Hypothesis Lifecycle
MJ-PBMEF-DAY0-R8-DRO-PEARL-LECANTO-90K-FINAL | Pink paper | LECANTO-PINK-001 INTERNAL PRE-PASSKEY REFERENCE. NOT PHYSICAL VALIDATION. NOT AN IP APPROVAL OR OWNERSHIP DETE

PATH OF EXPRESSION

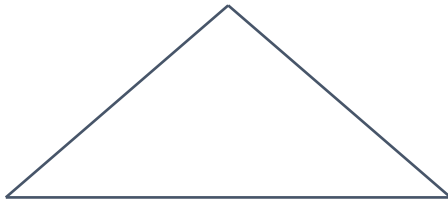
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

module MJ.Rainbow.INTERNAL_PRE_PASSKEY_REFEREN
reference "PINK-14-P0001"
state R -> R1
node N1
representation JP(PINK-14-P0001)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
Pink source LECANTO-PINK-001.pdf, page 1 of 3. INTERNAL PRE-PASSKEY REFERENCE. NOT PHYSICAL VALIDATION. NOT AN IP APPROV

--

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.



R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Pink source LECANTO-PINK-001.pdf, page 2 of 3. INTERNAL PRE-PASSKEY REFERENCE. NOT PHYSICAL VALIDATION. NOT AN IP APPROVAL OR OWNERSHIP DETERMINATION. NO IGNITION, HYDROGEN SEPARATION, COMBUSTION, Page 2 - `LECANTO\_TRANSFORMATION\_RECEIPT` - `IMAGE\_VARIANCE\_RECEIPT` ## Formula-by-formula lifecycle ### F-234 - Semiconductor profile isolation Expression: `G\_SC = profile==SC AND no\_LS\_value\_inheritance` Rejects marine or rocket physical values in the SC profile. Path

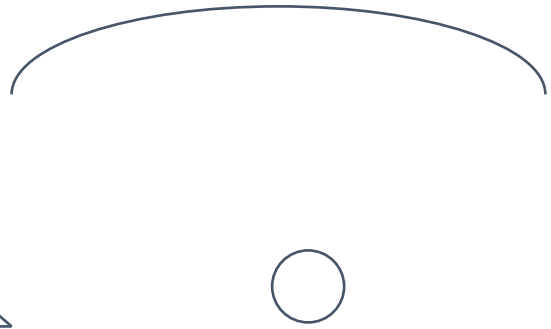
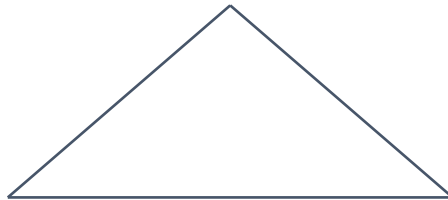
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

```

module MJ.Rainbow.INTERNAL_PRE_PASSKEY_REFEREN
reference "PINK-14-P0002"
state R -> R1
node N1
representation JP(PINK-14-P0002)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source LECANT0-PINK-001.pdf, page 2 of 3. INTERNAL PRE-PASSKEY REFERENCE. NOT PHYSICAL VALIDATION. NOT AN IP APPROV

```

NODE PLACEMENT / RAINBOW PATH



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

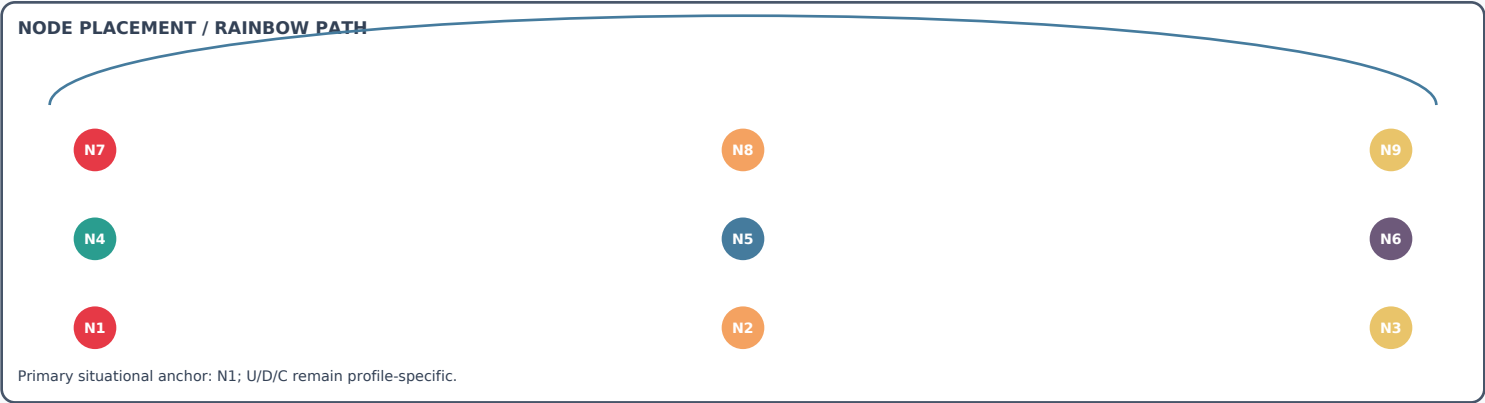
Pink source LECANTO-PINK-001.pdf, page 3 of 3. INTERNAL PRE-PASSKEY REFERENCE. NOT PHYSICAL VALIDATION. NOT AN IP APPROVAL OR OWNERSHIP DETERMINATION. NO IGNITION, HYDROGEN SEPARATION, COMBUSTION, Page 3 Evidence ceiling:
`REFERENCE\_MODEL\_OR\_SIMULATION\_UNTIL\_CALIBRATED\_PROFILE\_SPECIFIC\_EVIDENCE`
Physical authority: `NONE`. ### F-240 - Lecanto transformation gate
Expression: `G\_edit = source\_preserved AND modification\_disclosed AND purpose\_allowed AND safety\_pass`

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.INTERNAL_PRE_PASSKEY_REFEREN
reference "PINK-14-P0003"
state R -> R1
node N1
representation JP(PINK-14-P0003)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source LECANT0-PINK-001.pdf, page 3 of 3. INTERNAL PRE-PASSKEY REFERENCE. NOT PHYSICAL VALIDATION. NOT AN IP APPROV
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source SC-DRO-PEARL-PINK-001.pdf, page 1 of 4. INTERNAL PRE-PASSKEY REFERENCE. NOT PHYSICAL VALIDATION. NOT AN IP APPROVAL OR OWNERSHIP DETERMINATION. NO IGNITION, HYDROGEN SEPARATION, COMBUSTION, Page 1 Semiconductor DRO/Pearl Charge, Energy, Memory, Wake, Profile, and Evidence Lifecycle MJ-PBMEF-DAY0-R8-DRO-PEARL-LECANTO-90K-FINAL Pink paper SC-DRO-PEARL-PINK-001 INTERNAL PRE-PASSKEY REFERENCE. NOT PHYSICAL VALIDATION. NOT AN IP APPROVAL OR OWNERSHIP DETERM

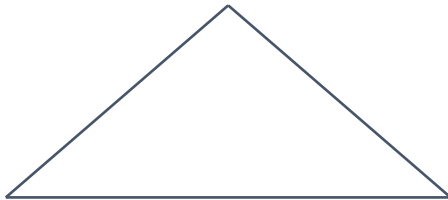
PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.INTERNAL_PRE_PASSKEY_REFEREN
reference "PINK-15-P0001"
state R -> R1
node N1
representation JP(PINK-15-P0001)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source SC-DRO-PEARL-PINK-001.pdf, page 1 of 4. INTERNAL PRE-PASSKEY REFERENCE. NOT PHYSICAL VALIDATION. NOT AN IP A
```

--

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

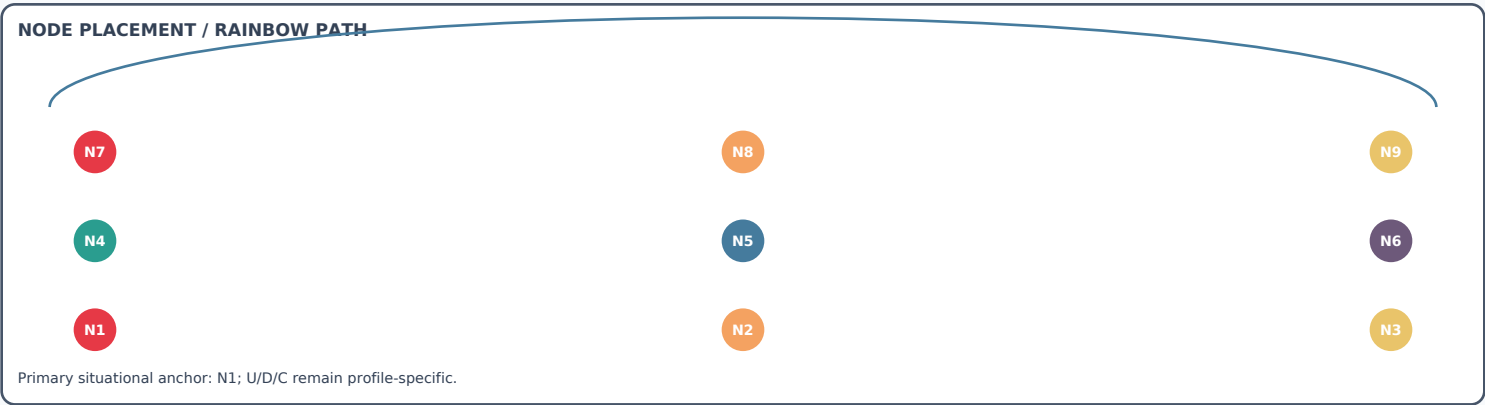


R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Pink source SC-DRO-PEARL-PINK-001.pdf, page 2 of 4. INTERNAL PRE-PASSKEY REFERENCE. NOT PHYSICAL VALIDATION. NOT AN IP APPROVAL OR OWNERSHIP DETERMINATION. NO IGNITION, HYDROGEN SEPARATION, COMBUSTION, Page 2 ## Formula-by-formula lifecycle ### F-220 - DRO energy ledger Expression: `r\_E = E\_in-E\_stored-E\_start-E\_restart-E\_loss-E\_containment` Energy conservation for reference start accounting. Path: `Bangel -> Elsa -> JP -> MK -> JO -> safety/evidence -> M3 -> Mermaid/`

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

```
module MJ.Rainbow.INTERNAL_PRE_PASSKEY_REFEREN
reference "PINK-15-P0002"
state R -> R1
node N1
representation JP(PINK-15-P0002)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source SC-DRO-PEARL-PINK-001.pdf, page 2 of 4. INTERNAL PRE-PASSKEY REFERENCE. NOT PHYSICAL VALIDATION. NOT AN IP A
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source SC-DRO-PEARL-PINK-001.pdf, page 3 of 4. INTERNAL PRE-PASSKEY REFERENCE. NOT PHYSICAL VALIDATION. NOT AN IP APPROVAL OR OWNERSHIP DETERMINATION. NO IGNITION, HYDROGEN SEPARATION, COMBUSTION, Page 3 Any species-separation claim requires a thermodynamic and measured energy balance. Path: `Bangel -> Elsa -> JP -> MK -> JO -> safety/evidence -> M3 -> Mermaid/Shiva -> MJ -> JO evidence`. Evidence ceiling: `REFERENCE_MODEL_OR_SIMULATION_UNTIL_CALIBRATED_PROFILE_S`

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

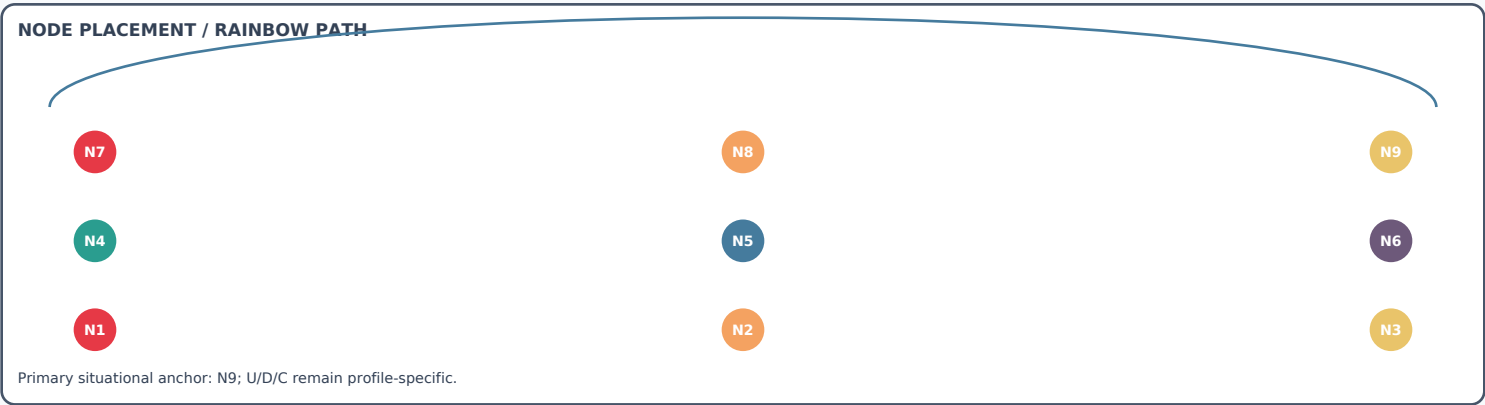
```
module MJ.Rainbow.INTERNAL_PRE_PASSKEY_REFEREN
reference "PINK-15-P0003"
state R -> R1
node N1
representation JP(PINK-15-P0003)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source SC-DRO-PEARL-PINK-001.pdf, page 3 of 4. INTERNAL PRE-PASSKEY REFERENCE. NOT PHYSICAL VALIDATION. NOT AN IP A
```



Pink source SC-DRO-PEARL-PINK-001.pdf, page 4 of 4. INTERNAL PRE-PASSKEY REFERENCE. NOT PHYSICAL VALIDATION. NOT AN IP APPROVAL OR OWNERSHIP DETERMINATION. NO IGNITION, HYDROGEN SEPARATION, COMBUSTION, Page 4 Evidence ceiling:
`REFERENCE\_MODEL\_OR\_SIMULATION\_UNTIL\_CALIBRATED\_PROFILE\_SPECIFIC\_EVIDENCE`
Physical authority: `NONE`. ### F-233 - Semiconductor wake-reserve gate
Expression: `E\_node,L >= M\_E\*(E\_wake,H+E\_restart,H)` Reference wake and restart reserve gate. Pat

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

```
module MJ.Rainbow.INTERNAL_PRE_PASSKEY_REFEREN
reference "PINK-15-P0004"
state R -> R1
node N1
representation JP(PINK-15-P0004)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source SC-DRO-PEARL-PINK-001.pdf, page 4 of 4. INTERNAL PRE-PASSKEY REFERENCE. NOT PHYSICAL VALIDATION. NOT AN IP A
```

R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source SOLAR-PINK-CORE-001.pdf, page 1 of 12. Solar Pink Paper MJOS-SOLAR-CORE-001 Page 1 INTERNAL PRE-PASSKEY RECORD - PHYSICAL AND IP RIGHTS CLAIMS REMAIN HELD MJOS Solar Shared-Core Architecture Pink Paper - Gateway Expression and Full Lifecycle NOT A PHYSICAL VALIDATION, IP APPROVAL, PRODUCT CERTIFICATION, OR EXTERNAL AUTHORITY RECORD. Build: MJ-PBMEF-DAY0-R7-SOLAR-30K-FINAL Source freeze SHA-256: 6241f3ffadbb335f97fabe809687595bf2c7a0b5f0ba86f5f66ae32eac5

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> Mj bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Solar_Pink_Paper_MJOS_SOLAR_
reference "PINK-16-P0001"
state R -> R1
node N9
representation JP(PINK-16-P0001)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source SOLAR-PINK-CORE-001.pdf, page 1 of 12. Solar Pink Paper | MJOS-SOLAR-CORE-001 Page 1 INTERNAL PRE-PASSKEY RE
```

NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source SOLAR-PINK-CORE-001.pdf, page 2 of 12. Solar Pink Paper | MJOS-SOLAR-CORE-001 Page 2 INTERNAL PRE-PASSKEY RECORD - PHYSICAL AND IP RIGHTS CLAIMS REMAIN HELD Pink Paper Gateway and Full-Lifecycle Specification **INTERNAL PRE-PASSKEY TECHNICAL RECORD.** This document does not claim physical validation, product certification, patentability, ownership, freedom to operate, production readiness, launch authority, vessel operation authority, or external effect.

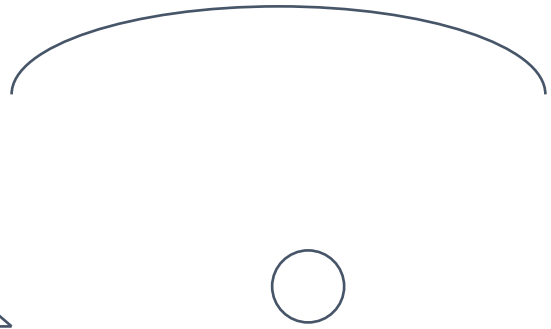
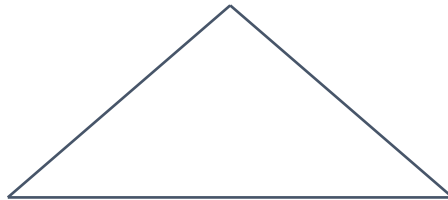
PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Solar_Pink_Paper_MJOS_SOLAR_
reference "PINK-16-P0002"
state R -> R1
node N1
representation JP(PINK-16-P0002)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source SOLAR-PINK-CORE-001.pdf, page 2 of 12. Solar Pink Paper | MJOS-SOLAR-CORE-001 Page 2 INTERNAL PRE-PASSKEY RE
```

NODE PLACEMENT / RAINBOW PATH



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source SOLAR-PINK-CORE-001.pdf, page 3 of 12. Solar Pink Paper | MJOS-SOLAR-CORE-001 Page 3 INTERNAL PRE-PASSKEY RECORD - PHYSICAL AND IP RIGHTS CLAIMS REMAIN HELD 2. `R1`: the unidentified transitional phase holds unknown variables, environmental state, profile classification, and missing evidence. 3. `N1`: the prediction-first node receives the bounded request and the exact `0.48383829` logical allocation seed where applicable; it is not a physical coordinate

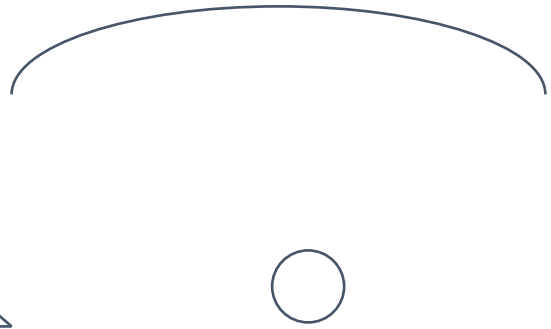
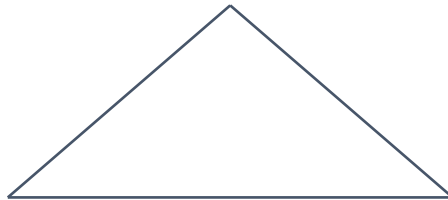
PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Solar_Pink_Paper_MJOS_SOLAR_
reference "PINK-16-P0003"
state R -> R1
node N1
representation JP(PINK-16-P0003)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source SOLAR-PINK-CORE-001.pdf, page 3 of 12. Solar Pink Paper | MJOS-SOLAR-CORE-001 Page 3 INTERNAL PRE-PASSKEY RE
```

NODE PLACEMENT / RAINBOW PATH



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source SOLAR-PINK-CORE-001.pdf, page 4 of 12. Solar Pink Paper | MJOS-SOLAR-CORE-001 Page 4 INTERNAL PRE-PASSKEY RECORD - PHYSICAL AND IP RIGHTS CLAIMS REMAIN HELD $R_E = E_{\text{available}}, L - M_E * E_{\text{required}}$, H A start or service is eligible only when conservative available energy exceeds required energy with margin. • Result dimension: `energy` • Evidence ceiling: `DESIGN\_TRACE\_REFERENCE\_OR\_SIMULATION\_UNTIL\_PROFILE\_SPECIFIC\_PHYSICAL\_EVIDENCE` • JO proof: types, units

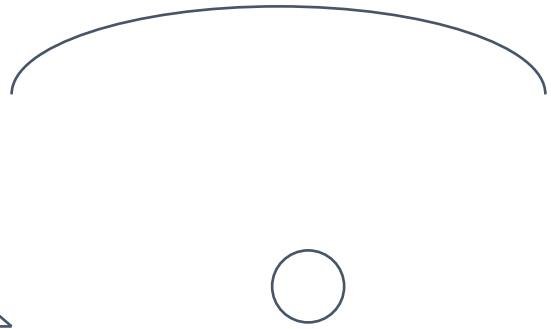
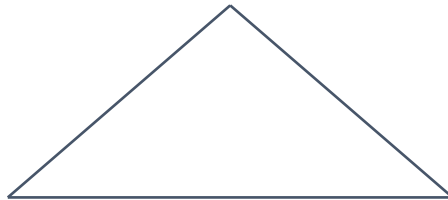
PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Solar_Pink_Paper_MJOS_SOLAR_
reference "PINK-16-P0004"
state R -> R1
node N1
representation JP(PINK-16-P0004)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source SOLAR-PINK-CORE-001.pdf, page 4 of 12. Solar Pink Paper | MJOS-SOLAR-CORE-001 Page 4 INTERNAL PRE-PASSKEY RE
```

NODE PLACEMENT / RAINBOW PATH



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source SOLAR-PINK-CORE-001.pdf, page 5 of 12. Solar Pink Paper | MJOS-SOLAR-CORE-001 Page 5 INTERNAL PRE-PASSKEY RECORD - PHYSICAL AND IP RIGHTS CLAIMS REMAIN HELD • Result dimension: 'voltage' • Evidence ceiling:
`DESIGN\_TRACE\_REFERENCE\_OR\_SIMULATION\_UNTIL\_PROFILE\_SPECIFIC\_PHYSICAL\_EVIDENCE`
• JO proof: types, units, boundaries, conservation, profile separation, uncertainty, authority, and negative/fault cases. • MJ effect: 'NONE' until a separate bounded decis

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Solar_Pink_Paper_MJOS_SOLAR_
reference "PINK-16-P0005"
state R -> R1
node N4
representation JP(PINK-16-P0005)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source SOLAR-PINK-CORE-001.pdf, page 5 of 12. Solar Pink Paper | MJOS-SOLAR-CORE-001 Page 5 INTERNAL PRE-PASSKEY RE
```

NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source SOLAR-PINK-CORE-001.pdf, page 6 of 12. Solar Pink Paper | MJOS-SOLAR-CORE-001 Page 6 INTERNAL PRE-PASSKEY RECORD - PHYSICAL AND IP RIGHTS CLAIMS REMAIN HELD • JO proof: types, units, boundaries, conservation, profile separation, uncertainty, authority, and negative/fault cases. • MJ effect: `NONE` until a separate bounded decision exists. 6. Twenty-five design elements SC-01 - JP technical origin This element is represented through JP, classified by MK, v

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Solar_Pink_Paper_MJOS_SOLAR_
reference "PINK-16-P0006"
state R -> R1
node N1
representation JP(PINK-16-P0006)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source SOLAR-PINK-CORE-001.pdf, page 6 of 12. Solar Pink Paper | MJOS-SOLAR-CORE-001 Page 6 INTERNAL PRE-PASSKEY RE
```

Node Placement / Rainbow Path



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source SOLAR-PINK-CORE-001.pdf, page 7 of 12. Solar Pink Paper | MJOS-SOLAR-CORE-001 Page 7 INTERNAL PRE-PASSKEY RECORD - PHYSICAL AND IP RIGHTS CLAIMS REMAIN HELD SC-10 - profile separation This element is represented through JP, classified by MK, verified by JO, routed by M3 when resources or handoffs apply, reconciled by Mermaid, evaluated by Shiva when capital applies, and remains subject to MJ authority and the non-weaponization covenant. SC-11 - evidence r

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.Solar_Pink_Paper_MJOS_SOLAR_
reference "PINK-16-P0007"
state R -> R1
node N1
representation JP(PINK-16-P0007)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source SOLAR-PINK-CORE-001.pdf, page 7 of 12. Solar Pink Paper | MJOS-SOLAR-CORE-001 Page 7 INTERNAL PRE-PASSKEY RE
```

Node Placement / Rainbow Path



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source SOLAR-PINK-CORE-001.pdf, page 8 of 12. Solar Pink Paper | MJOS-SOLAR-CORE-001 Page 8 INTERNAL PRE-PASSKEY RECORD - PHYSICAL AND IP RIGHTS CLAIMS REMAIN HELD SC-20 - physical hold This element is represented through JP, classified by MK, verified by JO, routed by M3 when resources or handoffs apply, reconciled by Mermaid, evaluated by Shiva when capital applies, and remains subject to MJ authority and the non-weaponization covenant. SC-21 - M3 resource all

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.Solar_Pink_Paper_MJOS_SOLAR_
reference "PINK-16-P0008"
state R -> R1
node N1
representation JP(PINK-16-P0008)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source SOLAR-PINK-CORE-001.pdf, page 8 of 12. Solar Pink Paper | MJOS-SOLAR-CORE-001 Page 8 INTERNAL PRE-PASSKEY RE
```

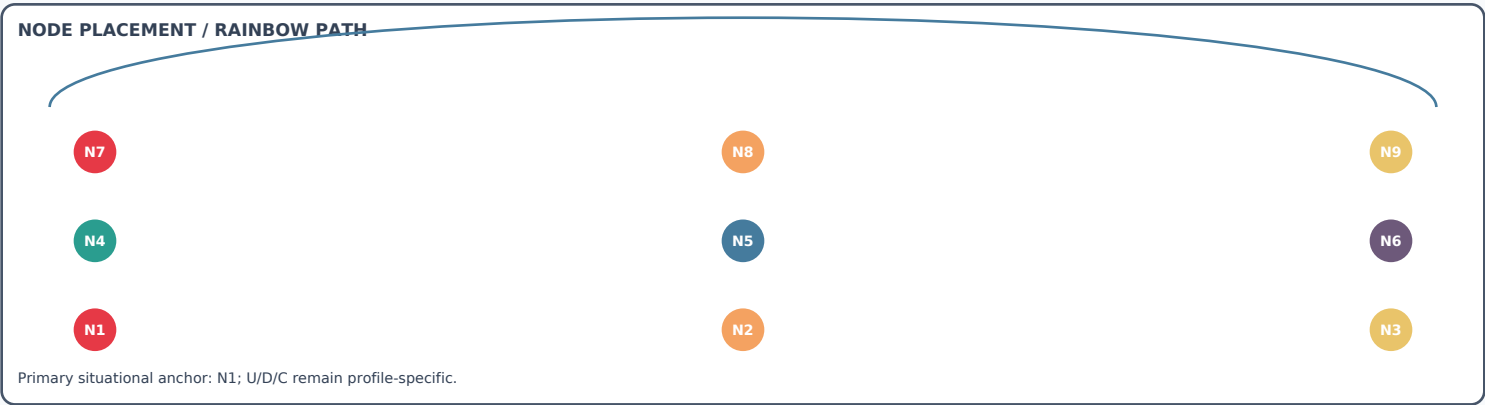



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source SOLAR-PINK-CORE-001.pdf, page 9 of 12. Solar Pink Paper MJOS-SOLAR-CORE-001 Page 9 INTERNAL PRE-PASSKEY RECORD - PHYSICAL AND IP RIGHTS CLAIMS REMAIN HELD No formula, profile, white paper, Pink Paper, test, passkey, software result, prediction, or successful simulation authorizes a physical operation. Physical dimensions, materials, voltages, currents, temperatures, thrust, torque, range, efficiency, fabrication, installation, launch, flight, vessel ope

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> Mj bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Solar_Pink_Paper_MJOS_SOLAR_
reference "PINK-16-P0009"
state R -> R1
node N1
representation JP(PINK-16-P0009)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source SOLAR-PINK-CORE-001.pdf, page 9 of 12. Solar Pink Paper | MJOS-SOLAR-CORE-001 Page 9 INTERNAL PRE-PASSKEY RE
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source SOLAR-PINK-CORE-001.pdf, page 10 of 12. Solar Pink Paper MJOS-SOLAR-CORE-001 Page 10 INTERNAL PRE-PASSKEY RECORD - PHYSICAL AND IP RIGHTS CLAIMS REMAIN HELD -> Mermaid reconciliation -> Shiva when capital applies -> MJ permit -> R2 living static evidence -> bounded execution or hold -> JO final receipt 15. Bangel construct mapping Module Defines the profile compilation unit and its independent scope. Namespace Prevents profile parameters, evidence and au

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Solar_Pink_Paper_MJOS_SOLAR_
reference "PINK-16-P0010"
state R -> R1
node N1
representation JP(PINK-16-P0010)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source SOLAR-PINK-CORE-001.pdf, page 10 of 12. Solar Pink Paper | MJOS-SOLAR-CORE-001 Page 10 INTERNAL PRE-PASSKEY
```

Node Placement / Rainbow Path



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source SOLAR-PINK-CORE-001.pdf, page 11 of 12. Solar Pink Paper MJOS-SOLAR-CORE-001 Page 11 INTERNAL PRE-PASSKEY RECORD - PHYSICAL AND IP RIGHTS CLAIMS REMAIN HELD Adds provenance, evidence ceiling and source references. Directive Controls compilation or review behavior but does not create authority. Block Groups one complete governed scope. Literal Preserves exact values such as the source hash or logical allocation seed. Reference Links immutable IDs, roots,

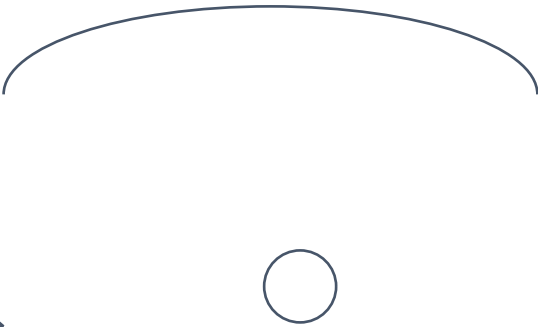
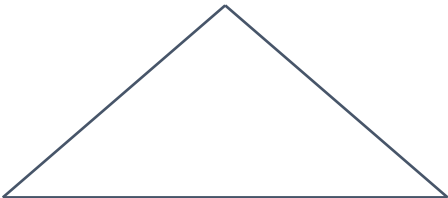
Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Solar_Pink_Paper_MJOS_SOLAR_
reference "PINK-16-P0011"
state R -> R1
node N1
representation JP(PINK-16-P0011)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source SOLAR-PINK-CORE-001.pdf, page 11 of 12. Solar Pink Paper | MJOS-SOLAR-CORE-001 Page 11 INTERNAL PRE-PASSKEY
```

Node Placement / Rainbow Path



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source SOLAR-PINK-CORE-001.pdf, page 12 of 12. Solar Pink Paper | MJOS-SOLAR-CORE-001 Page 12 INTERNAL PRE-PASSKEY RECORD - PHYSICAL AND IP RIGHTS CLAIMS REMAIN HELD • `F-156` enters at JP representation, receives MK applicability and unit/conservation analysis, JO proof, applicable safety evidence, M3/Mermaid implications, and an MJ permit classification before any effect. • `F-157` enters at JP representation, receives MK applicability and unit/conservation ana

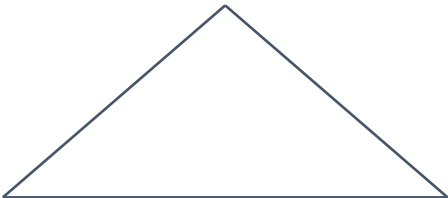
PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Solar_Pink_Paper_MJOS_SOLAR_
reference "PINK-16-P0012"
state R -> R1
node N1
representation JP(PINK-16-P0012)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source SOLAR-PINK-CORE-001.pdf, page 12 of 12. Solar Pink Paper | MJOS-SOLAR-CORE-001 Page 12 INTERNAL PRE-PASSKEY
```

Node Placement / Rainbow Path



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source SOLAR-PINK-MARINE-001.pdf, page 1 of 12. Solar Pink Paper | MJOS-SOLAR-MARINE-001 Page 1 INTERNAL PRE-PASSKEY RECORD - PHYSICAL AND IP RIGHTS CLAIMS REMAIN HELD MJOS Solar-Assisted Marine Power and Propulsion Profile Pink Paper - Gateway Expression and Full Lifecycle NOT A PHYSICAL VALIDATION, IP APPROVAL, PRODUCT CERTIFICATION, OR EXTERNAL AUTHORITY RECORD. Build: MJ-PBMEF-DAY0-R7-SOLAR-30K-FINAL Source freeze SHA-256: 6241f3ffaddb335f97fabe809687595bf2c7a

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Solar_Pink_Paper_MJOS_SOLAR_
reference "PINK-17-P0001"
state R -> R1
node N3
representation JP(PINK-17-P0001)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source SOLAR-PINK-MARINE-001.pdf, page 1 of 12. Solar Pink Paper | MJOS-SOLAR-MARINE-001 Page 1 INTERNAL PRE-PASSKEY RECORD
```

Node Placement / Rainbow Path



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source SOLAR-PINK-MARINE-001.pdf, page 2 of 12. Solar Pink Paper MJOS-SOLAR-MARINE-001 Page 2 INTERNAL PRE-PASSKEY RECORD - PHYSICAL AND IP RIGHTS CLAIMS REMAIN HELD Pink Paper Gateway and Full-Lifecycle Specification **INTERNAL PRE-PASSKEY TECHNICAL RECORD.** This document does not claim physical validation, product certification, patentability, ownership, freedom to operate, production readiness, launch authority, vessel operation authority, or external effect

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Solar_Pink_Paper_MJOS_SOLAR_
reference "PINK-17-P0002"
state R -> R1
node N1
representation JP(PINK-17-P0002)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source SOLAR-PINK-MARINE-001.pdf, page 2 of 12. Solar Pink Paper | MJOS-SOLAR-MARINE-001 Page 2 INTERNAL PRE-PASSKEY RECORD
```

NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source SOLAR-PINK-MARINE-001.pdf, page 3 of 12. Solar Pink Paper | MJOS-SOLAR-MARINE-001 Page 3 INTERNAL PRE-PASSKEY RECORD - PHYSICAL AND IP RIGHTS CLAIMS REMAIN HELD 2. `R1`: the unidentified transitional phase holds unknown variables, environmental state, profile classification, and missing evidence. 3. `N1`: the prediction-first node receives the bounded request and the exact `0.48383829` logical allocation seed where applicable; it is not a physical coordina

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Solar_Pink_Paper_MJOS_SOLAR_
reference "PINK-17-P0003"
state R -> R1
node N1
representation JP(PINK-17-P0003)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source SOLAR-PINK-MARINE-001.pdf, page 3 of 12. Solar Pink Paper | MJOS-SOLAR-MARINE-001 Page 3 INTERNAL PRE-PASSKE
```

Node Placement / Rainbow Path



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source SOLAR-PINK-MARINE-001.pdf, page 4 of 12. Solar Pink Paper | MJOS-SOLAR-MARINE-001 Page 4 INTERNAL PRE-PASSKEY RECORD - PHYSICAL AND IP RIGHTS CLAIMS REMAIN HELD F-173 - Marine critical reserve duration $t_{critical} = E_{reserve}, L / P_{critical}, H$ Critical service duration is conservative and product-classification dependent. • Result dimension: `time` • Evidence ceiling: `DESIGN\_TRACE\_REFERENCE\_OR\_SIMULATION\_UNTIL\_PROFILE\_SPECIFIC\_PHYSICAL\_EVIDENCE` • JO proof:

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.Solar_Pink_Paper_MJOS_SOLAR_
reference "PINK-17-P0004"
state R -> R1
node N1
representation JP(PINK-17-P0004)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source SOLAR-PINK-MARINE-001.pdf, page 4 of 12. Solar Pink Paper | MJOS-SOLAR-MARINE-001 Page 4 INTERNAL PRE-PASSKEY RECORD - PHYSICAL AND IP RIGHTS CLAIMS REMAIN HELD F-173 - Marine critical reserve duration t_critical = E_reserve, L / P_critical, H Critical service duration is conservative and product-classification dependent. • Result dimension: `time` • Evidence ceiling: `DESIGN_TRACE_REFERENCE_OR_SIMULATION_UNTIL_PROFILE_SPECIFIC_PHYSICAL_EVIDENCE` • JO proof:
```


NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source SOLAR-PINK-MARINE-001.pdf, page 5 of 12. Solar Pink Paper | MJOS-SOLAR-MARINE-001 Page 5 INTERNAL PRE-PASKEY RECORD - PHYSICAL AND IP RIGHTS CLAIMS REMAIN HELD Marine physical evidence remains a multi-dimensional vector. • Result dimension: `typed\_vector` • Evidence ceiling:

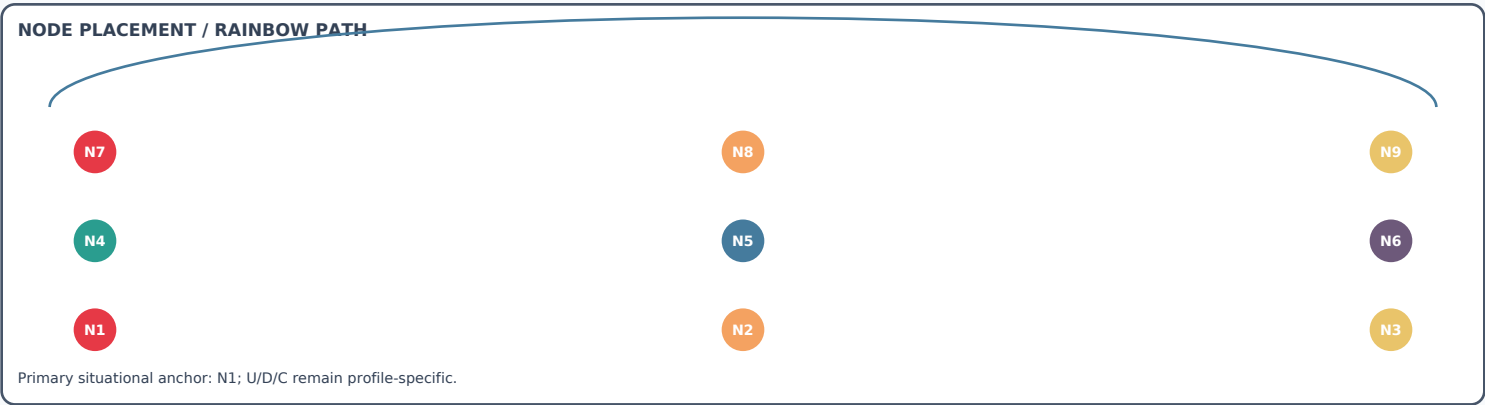
DESIGN_TRACE_REFERENCE_OR_SIMULATION_UNTIL_PROFILE_SPECIFIC_PHYSICAL_EVIDENCE	• JO proof: types, units, boundaries, conservation, profile separation, uncertainty, authority, and nega
---	--

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Solar_Pink_Paper_MJOS_SOLAR_
reference "PINK-17-P0005"
state R -> R1
node N7
representation JP(PINK-17-P0005)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source SOLAR-PINK-MARINE-001.pdf, page 5 of 12. Solar Pink Paper | MJOS-SOLAR-MARINE-001 Page 5 INTERNAL PRE-PASSKE
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source SOLAR-PINK-MARINE-001.pdf, page 6 of 12. Solar Pink Paper MJOS-SOLAR-MARINE-001 Page 6 INTERNAL PRE-PASSKEY RECORD - PHYSICAL AND IP RIGHTS CLAIMS REMAIN HELD • Evidence ceiling: `DESIGN_TRACE_REFERENCE_OR_SIMULATION_UNTIL_PROFILE_SPECIFIC_PHYSICAL_EVIDENCE` • JO proof: types, units, boundaries, conservation, profile separation, uncertainty, authority, and negative/fault cases. • MJ effect: `NONE` until a separate bounded decision exists. 6. Twenty-five d

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> Mj bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Solar_Pink_Paper_MJOS_SOLAR_
reference "PINK-17-P0006"
state R -> R1
node N1
representation JP(PINK-17-P0006)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source SOLAR-PINK-MARINE-001.pdf, page 6 of 12. Solar Pink Paper | MJOS-SOLAR-MARINE-001 Page 6 INTERNAL PRE-PASSKEY RECORD - PHYSICAL AND IP RIGHTS CLAIMS REMAIN HELD
```

NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source SOLAR-PINK-MARINE-001.pdf, page 7 of 12. Solar Pink Paper | MJOS-SOLAR-MARINE-001 Page 7 INTERNAL PRE-PASSKEY RECORD - PHYSICAL AND IP RIGHTS CLAIMS REMAIN HELD This element is represented through JP, classified by MK, verified by JO, routed by M3 when resources or handoffs apply, reconciled by Mermaid, evaluated by Shiva when capital applies, and remains subject to MJ authority and the non-weaponization covenant. MP-10 - drivetrain interface This element i

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Solar_Pink_Paper_MJOS_SOLAR_
reference "PINK-17-P0007"
state R -> R1
node N1
representation JP(PINK-17-P0007)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source SOLAR-PINK-MARINE-001.pdf, page 7 of 12. Solar Pink Paper | MJOS-SOLAR-MARINE-001 Page 7 INTERNAL PRE-PASSKE
```

NODE PLACEMENT / RAINBOW PATH



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

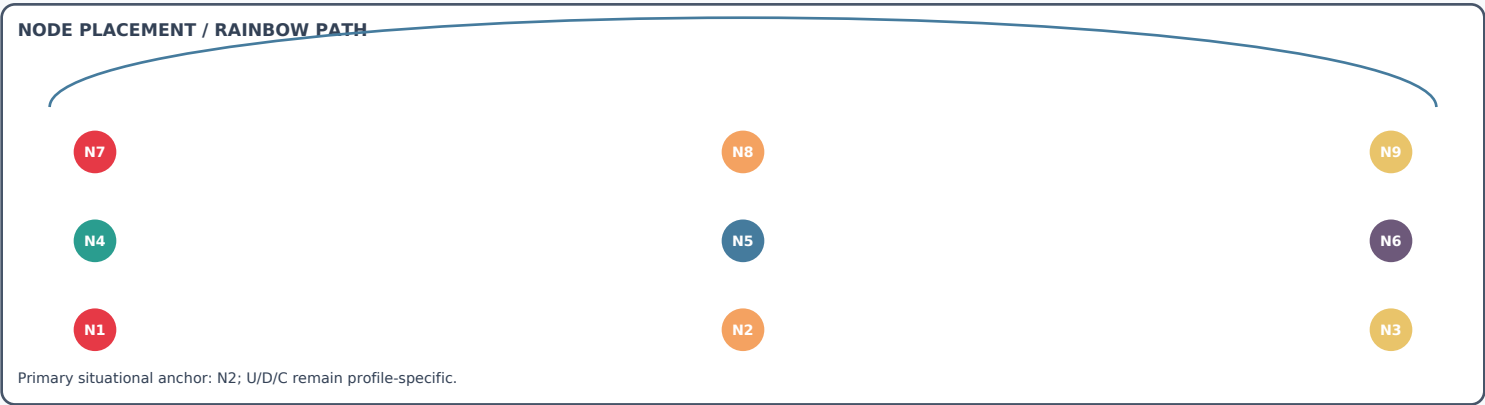
R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source SOLAR-PINK-MARINE-001.pdf, page 8 of 12. Solar Pink Paper MJOS-SOLAR-MARINE-001 Page 8 INTERNAL PRE-PASSKEY RECORD - PHYSICAL AND IP RIGHTS CLAIMS REMAIN HELD This element is represented through JP, classified by MK, verified by JO, routed by M3 when resources or handoffs apply, reconciled by Mermaid, evaluated by Shiva when capital applies, and remains subject to MJ authority and the non-weaponization covenant. MP-20 - emergency shutdown This element is

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Solar_Pink_Paper_MJOS_SOLAR_
reference "PINK-17-P0008"
state R -> R1
node N1
representation JP(PINK-17-P0008)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source SOLAR-PINK-MARINE-001.pdf, page 8 of 12. Solar Pink Paper | MJOS-SOLAR-MARINE-001 Page 8 INTERNAL PRE-PASSKEY RECORD - PHYSICAL AND IP RIGHTS CLAIMS REMAIN HELD
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source SOLAR-PINK-MARINE-001.pdf, page 9 of 12. Solar Pink Paper MJOS-SOLAR-MARINE-001 Page 9 INTERNAL PRE-PASSKEY RECORD - PHYSICAL AND IP RIGHTS CLAIMS REMAIN HELD 8. Authority boundary No formula, profile, white paper, Pink Paper, test, passkey, software result, prediction, or successful simulation authorizes a physical operation. Physical dimensions, materials, voltages, currents, temperatures, thrust, torque, range, efficiency, fabrication, installation, la

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Solar_Pink_Paper_MJOS_SOLAR_
reference "PINK-17-P0009"
state R -> R1
node N2
representation JP(PINK-17-P0009)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source SOLAR-PINK-MARINE-001.pdf, page 9 of 12. Solar Pink Paper | MJOS-SOLAR-MARINE-001 Page 9 INTERNAL PRE-PASSKE
```

Node Placement / Rainbow Path



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source SOLAR-PINK-MARINE-001.pdf, page 10 of 12. Solar Pink Paper MJOS-SOLAR-MARINE-001 Page 10 INTERNAL PRE-PASSKEY RECORD - PHYSICAL AND IP RIGHTS CLAIMS REMAIN HELD MJ -> Bangel.begin -> request.bind(MJOS-SOLAR-MARINE-001) -> R/R0 -> R1 -> N1 prediction -> Elsa semantics -> JP representation -> MK physics -> JO verification -> safety/evidence -> M3 bounded allocation -> Mermaid reconciliation -> Shiva when capital applies -> MJ permit -> R2 living static evade

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Solar_Pink_Paper_MJOS_SOLAR_
reference "PINK-17-P0010"
state R -> R1
node N1
representation JP(PINK-17-P0010)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source SOLAR-PINK-MARINE-001.pdf, page 10 of 12. Solar Pink Paper | MJOS-SOLAR-MARINE-001 Page 10 INTERNAL PRE-PASS
```

NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source SOLAR-PINK-MARINE-001.pdf, page 11 of 12. Solar Pink Paper | MJOS-SOLAR-MARINE-001 Page 11 INTERNAL PRE-PASSKEY RECORD - PHYSICAL AND IP RIGHTS CLAIMS REMAIN HELD Annotation Adds provenance, evidence ceiling and source references. Directive Controls compilation or review behavior but does not create authority. Block Groups one complete governed scope. Literal Preserves exact values such as the source hash or logical allocation seed. Reference Links immutable

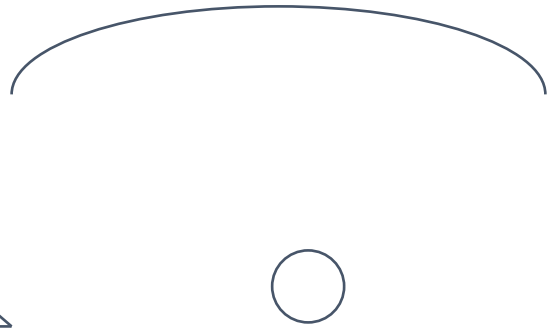
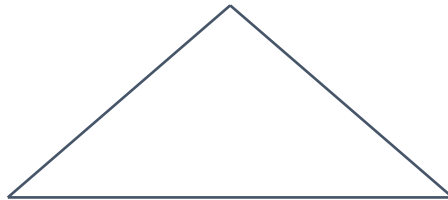
PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Solar_Pink_Paper_MJOS_SOLAR_
reference "PINK-17-P0011"
state R -> R1
node N1
representation JP(PINK-17-P0011)
physics MK(classify, units, boundary, uncertainty)
verify JO(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source SOLAR-PINK-MARINE-001.pdf, page 11 of 12. Solar Pink Paper | MJOS-SOLAR-MARINE-001 Page 11 INTERNAL PRE-PASS
```

NODE PLACEMENT / RAINBOW PATH



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source SOLAR-PINK-MARINE-001.pdf, page 12 of 12. Solar Pink Paper | MJOS-SOLAR-MARINE-001 Page 12 INTERNAL PRE-PASSKEY RECORD - PHYSICAL AND IP RIGHTS CLAIMS REMAIN HELD • 'F-179' enters at JP representation, receives MK applicability and unit/conservation analysis, JO proof, applicable safety evidence, M3/Mermaid implications, and an MJ permit classification before any effect. • 'F-180' enters at JP representation, receives MK applicability and unit/conservation a

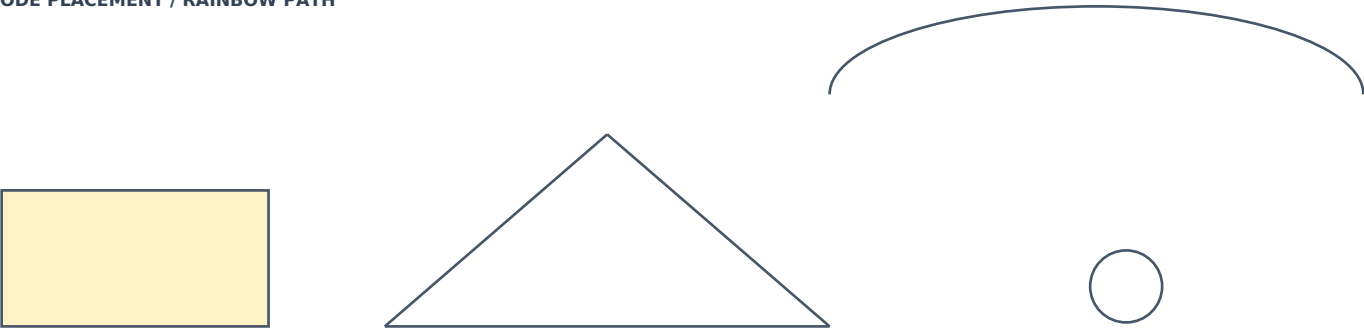
PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Solar_Pink_Paper_MJOS_SOLAR_
reference "PINK-17-P0012"
state R -> R1
node N1
representation JP(PINK-17-P0012)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source SOLAR-PINK-MARINE-001.pdf, page 12 of 12. Solar Pink Paper | MJOS-SOLAR-MARINE-001 Page 12 INTERNAL PRE-PASS
```


Node Placement / Rainbow Path



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source SOLAR-PINK-ROCKET-001.pdf, page 1 of 12. Solar Pink Paper MJOS-SOLAR-ROCKET-001 Page 1 INTERNAL PRE-PASSKEY RECORD - PHYSICAL AND IP RIGHTS CLAIMS REMAIN HELD MJOS Peaceful Solar-Assisted Rocket/Spacecraft Power and OS Profile Pink Paper - Gateway Expression and Full Lifecycle NOT A PHYSICAL VALIDATION, IP APPROVAL, PRODUCT CERTIFICATION, OR EXTERNAL AUTHORITY RECORD. Build: MJ-PBMEF-DAY0-R7-SOLAR-30K-FINAL Source freeze SHA-256: 6241f3ffaddb335f97fabe809

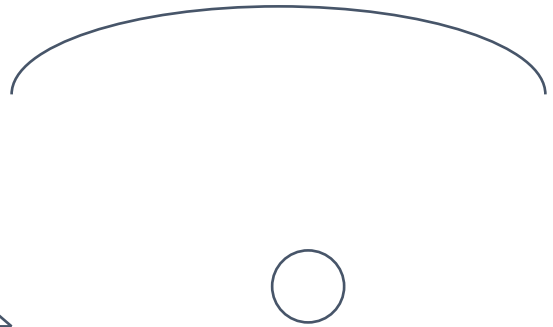
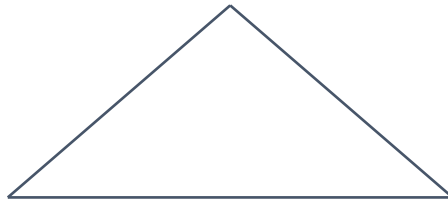
Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Solar_Pink_Paper_MJOS_SOLAR_
reference "PINK-18-P0001"
state R -> R1
node N6
representation JP(PINK-18-P0001)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source SOLAR-PINK-ROCKET-001.pdf, page 1 of 12. Solar Pink Paper | MJOS-SOLAR-ROCKET-001 Page 1 INTERNAL PRE-PASSKEY RECORD - PHYSICAL AND IP RIGHTS CLAIMS REMAIN HELD MJOS Peaceful Solar-Assisted Rocket/Spacecraft Power and OS Profile Pink Paper - Gateway Expression and Full Lifecycle NOT A PHYSICAL VALIDATION, IP APPROVAL, PRODUCT CERTIFICATION, OR EXTERNAL AUTHORITY RECORD. Build: MJ-PBMEF-DAY0-R7-SOLAR-30K-FINAL Source freeze SHA-256: 6241f3ffaddb335f97fabe809
```

NODE PLACEMENT / RAINBOW PATH



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source SOLAR-PINK-ROCKET-001.pdf, page 2 of 12. Solar Pink Paper | MJOS-SOLAR-ROCKET-001 Page 2 INTERNAL PRE-PASSKEY RECORD - PHYSICAL AND IP RIGHTS CLAIMS REMAIN HELD PINK Paper Gateway and Full-Lifecycle Specification **INTERNAL PRE-PASSKEY TECHNICAL RECORD.** This document does not claim physical validation, product certification, patentability, ownership, freedom to operate, production readiness, launch authority, vessel operation authority, or external effect

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Solar_Pink_Paper_MJOS_SOLAR_
reference "PINK-18-P0002"
state R -> R1
node N1
representation JP(PINK-18-P0002)
physics MK(classify, units, boundary, uncertainty)
verify JO(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source SOLAR-PINK-ROCKET-001.pdf, page 2 of 12. Solar Pink Paper | MJOS-SOLAR-ROCKET-001 Page 2 INTERNAL PRE-PASSKE
```

Node Placement / Rainbow Path



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source SOLAR-PINK-ROCKET-001.pdf, page 3 of 12. Solar Pink Paper | MJOS-SOLAR-ROCKET-001 Page 3 INTERNAL PRE-PASSEKEY RECORD - PHYSICAL AND IP RIGHTS CLAIMS REMAIN HELD 2. `R1`: the unidentified transitional phase holds unknown variables, environmental state, profile classification, and missing evidence. 3. `N1`: the prediction-first node receives the bounded request and the exact `0.48383829` logical allocation seed where applicable; it is not a physical coordina

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.Solar_Pink_Paper_MJOS_SOLAR_
reference "PINK-18-P0003"
state R -> R1
node N1
representation JP(PINK-18-P0003)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source SOLAR-PINK-ROCKET-001.pdf, page 3 of 12. Solar Pink Paper | MJOS-SOLAR-ROCKET-001 Page 3 INTERNAL PRE-PASSEKEY RECORD - PHYSICAL AND IP RIGHTS CLAIMS REMAIN HELD 2. `R1`: the unidentified transitional phase holds unknown variables, environmental state, profile classification, and missing evidence. 3. `N1`: the prediction-first node receives the bounded request and the exact `0.48383829` logical allocation seed where applicable; it is not a physical coordina
```

NODE PLACEMENT / RAINBOW PATH

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source SOLAR-PINK-ROCKET-001.pdf, page 4 of 12. Solar Pink Paper MJOS-SOLAR-ROCKET-001 Page 4 INTERNAL PRE-PASSKEY RECORD - PHYSICAL AND IP RIGHTS CLAIMS REMAIN HELD $C_{th} \cdot dt/dt = P_{internal} + P_{solar_absorbed} - P_{rejected}$ A reference thermal balance requires geometry, materials, environment, and radiation model evidence. • Result dimension: `power` • Evidence ceiling: `DESIGN_TRACE_REFERENCE_OR_SIMULATION_UNTIL_PROFILE_SPECIFIC_PHYSICAL_EVIDENCE` • JO proof: typ

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```

module MJ.Rainbow.Solar_Pink_Paper_MJOS_SOLAR_
reference "PINK-18-P0004"
state R -> R1
node N1
representation JP(PINK-18-P0004)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source SOLAR-PINK-ROCKET-001.pdf, page 4 of 12. Solar Pink Paper | MJOS-SOLAR-ROCKET-001 Page 4 INTERNAL PRE-PASSKEY RECORD - PHYSICAL AND IP RIGHTS CLAIMS REMAIN HELD C_th * dt/dt = P_internal + P_solar_absorbed - P_rejected A reference thermal balance requires geometry, materials, environment, and radiation model evidence. • Result dimension: `power` • Evidence ceiling: `DESIGN_TRACE_REFERENCE_OR_SIMULATION_UNTIL_PROFILE_SPECIFIC_PHYSICAL_EVIDENCE` • JO proof: typ

```

NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source SOLAR-PINK-ROCKET-001.pdf, page 5 of 12. Solar Pink Paper | MJOS-SOLAR-ROCKET-001 Page 5 INTERNAL PRE-PASSKEY RECORD - PHYSICAL AND IP RIGHTS CLAIMS REMAIN HELD • Result dimension: `ratio` • Evidence ceiling:
`DESIGN\_TRACE\_REFERENCE\_OR\_SIMULATION\_UNTIL\_PROFILE\_SPECIFIC\_PHYSICAL\_EVIDENCE`
• JO proof: types, units, boundaries, conservation, profile separation, uncertainty, authority, and negative/fault cases. • MJ effect: `NONE` until a separate bounded decs

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Solar_Pink_Paper_MJOS_SOLAR_
reference "PINK-18-P0005"
state R -> R1
node N1
representation JP(PINK-18-P0005)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source SOLAR-PINK-ROCKET-001.pdf, page 5 of 12. Solar Pink Paper | MJOS-SOLAR-ROCKET-001 Page 5 INTERNAL PRE-PASSKE
```

Node Placement / Rainbow Path



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source SOLAR-PINK-ROCKET-001.pdf, page 6 of 12. Solar Pink Paper | MJOS-SOLAR-ROCKET-001 Page 6 INTERNAL PRE-PASSEKEY RECORD - PHYSICAL AND IP RIGHTS CLAIMS REMAIN HELD • JO proof: types, units, boundaries, conservation, profile separation, uncertainty, authority, and negative/fault cases. • MJ effect: `NONE` until a separate bounded decision exists. 6. Twenty-five design elements RP-01 - solar-assisted avionics power This element is represented through JP, classif

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.Solar_Pink_Paper_MJOS_SOLAR_
reference "PINK-18-P0006"
state R -> R1
node N1
representation JP(PINK-18-P0006)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source SOLAR-PINK-ROCKET-001.pdf, page 6 of 12. Solar Pink Paper | MJOS-SOLAR-ROCKET-001 Page 6 INTERNAL PRE-PASSEKEY RECORD - PHYSICAL AND IP RIGHTS CLAIMS REMAIN HELD • JO proof: types, units, boundaries, conservation, profile separation, uncertainty, authority, and negative/fault cases. • MJ effect: `NONE` until a separate bounded decision exists. 6. Twenty-five design elements RP-01 - solar-assisted avionics power This element is represented through JP, classif
```

Node Placement / Rainbow Path



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source SOLAR-PINK-ROCKET-001.pdf, page 7 of 12. Solar Pink Paper MJOS-SOLAR-ROCKET-001 Page 7 INTERNAL PRE-PASSKEY RECORD - PHYSICAL AND IP RIGHTS CLAIMS REMAIN HELD RP-10 - state-machine integrity This element is represented through JP, classified by MK, verified by JO, routed by M3 when resources or handoffs apply, reconciled by Mermaid, evaluated by Shiva when capital applies, and remains subject to MJ authority and the non-weaponization covenant. RP-11 - pow

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Solar_Pink_Paper_MJOS_SOLAR_
reference "PINK-18-P0007"
state R -> R1
node N1
representation JP(PINK-18-P0007)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source SOLAR-PINK-ROCKET-001.pdf, page 7 of 12. Solar Pink Paper | MJOS-SOLAR-ROCKET-001 Page 7 INTERNAL PRE-PASSKEY RECORD - PHYSICAL AND IP RIGHTS CLAIMS REMAIN HELD RP-10 - state-machine integrity This element is represented through JP, classified by MK, verified by JO, routed by M3 when resources or handoffs apply, reconciled by Mermaid, evaluated by Shiva when capital applies, and remains subject to MJ authority and the non-weaponization covenant. RP-11 - pow
```

Node Placement / Rainbow Path



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source SOLAR-PINK-ROCKET-001.pdf, page 8 of 12. Solar Pink Paper | MJOS-SOLAR-ROCKET-001 Page 8 INTERNAL PRE-PASSEKEY RECORD - PHYSICAL AND IP RIGHTS CLAIMS REMAIN HELD RP-20 - mission reserve This element is represented through JP, classified by MK, verified by JO, routed by M3 when resources or handoffs apply, reconciled by Mermaid, evaluated by Shiva when capital applies, and remains subject to MJ authority and the non-weaponization covenant. RP-21 - energy cons

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.Solar_Pink_Paper_MJOS_SOLAR_
reference "PINK-18-P0008"
state R -> R1
node N1
representation JP(PINK-18-P0008)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source SOLAR-PINK-ROCKET-001.pdf, page 8 of 12. Solar Pink Paper | MJOS-SOLAR-ROCKET-001 Page 8 INTERNAL PRE-PASSEKEY RECORD - PHYSICAL AND IP RIGHTS CLAIMS REMAIN HELD RP-20 - mission reserve This element is represented through JP, classified by MK, verified by JO, routed by M3 when resources or handoffs apply, reconciled by Mermaid, evaluated by Shiva when capital applies, and remains subject to MJ authority and the non-weaponization covenant. RP-21 - energy cons
```


Node Placement / Rainbow Path



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source SOLAR-PINK-ROCKET-001.pdf, page 9 of 12. Solar Pink Paper MJOS-SOLAR-ROCKET-001 Page 9 INTERNAL PRE-PASSKEY RECORD - PHYSICAL AND IP RIGHTS CLAIMS REMAIN HELD No formula, profile, white paper, Pink Paper, test, passkey, software result, prediction, or successful simulation authorizes a physical operation. Physical dimensions, materials, voltages, currents, temperatures, thrust, torque, range, efficiency, fabrication, installation, launch, flight, vessel o

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Solar_Pink_Paper_MJOS_SOLAR_
reference "PINK-18-P0009"
state R -> R1
node N1
representation JP(PINK-18-P0009)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source SOLAR-PINK-ROCKET-001.pdf, page 9 of 12. Solar Pink Paper | MJOS-SOLAR-ROCKET-001 Page 9 INTERNAL PRE-PASSKEY RECORD - PHYSICAL AND IP RIGHTS CLAIMS REMAIN HELD
```

NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

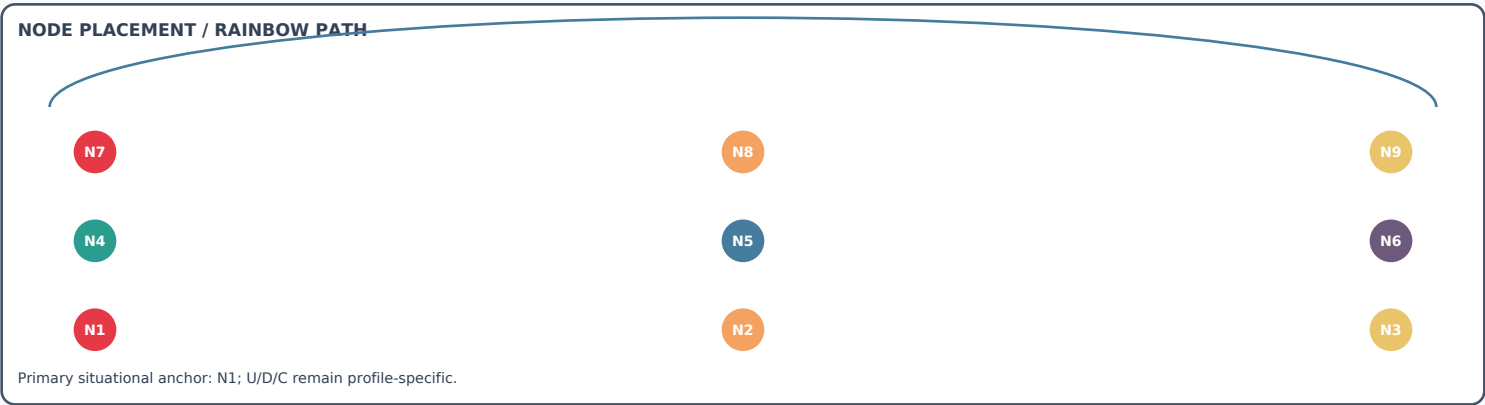
Pink source SOLAR-PINK-ROCKET-001.pdf, page 10 of 12. Solar Pink Paper | MJOS-SOLAR-ROCKET-001 Page 10 INTERNAL PRE-PASSKEY RECORD - PHYSICAL AND IP RIGHTS CLAIMS REMAIN HELD -> Mermaid reconciliation -> Shiva when capital applies -> MJ permit -> R2 living static evidence -> bounded execution or hold -> JO final receipt 15. Bangel construct mapping Module Defines the profile compilation unit and its independent scope. Namespace Prevents profile parameters, evidence and

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Solar_Pink_Paper_MJOS_SOLAR_
reference "PINK-18-P0010"
state R -> R1
node N1
representation JP(PINK-18-P0010)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source SOLAR-PINK-ROCKET-001.pdf, page 10 of 12. Solar Pink Paper | MJOS-SOLAR-ROCKET-001 Page 10 INTERNAL PRE-PASS
```

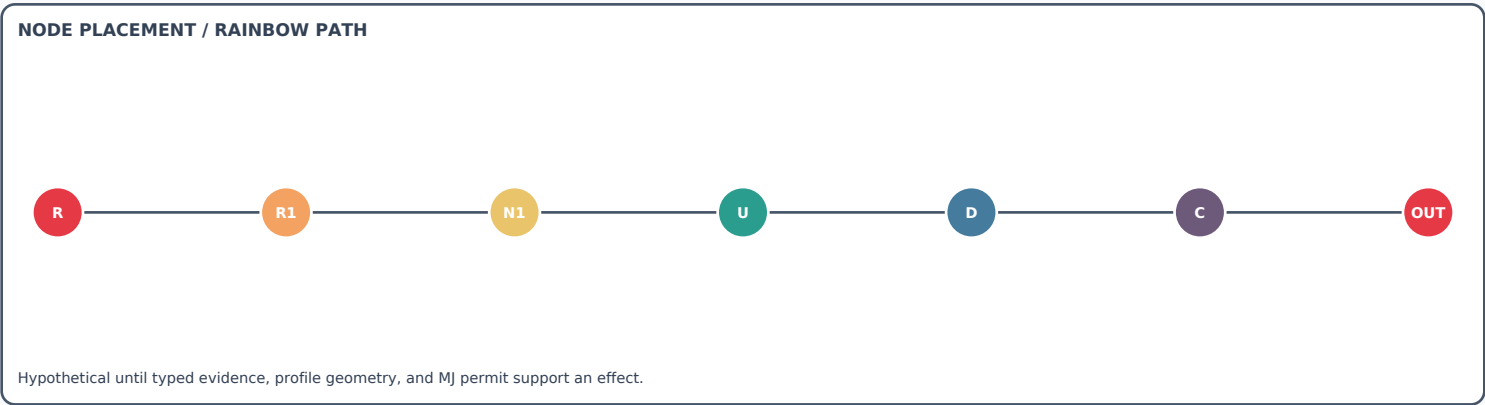


R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source SOLAR-PINK-ROCKET-001.pdf, page 11 of 12. Solar Pink Paper MJOS-SOLAR-ROCKET-001 Page 11 INTERNAL PRE-PASSKEY RECORD - PHYSICAL AND IP RIGHTS CLAIMS REMAIN HELD Adds provenance, evidence ceiling and source references. Directive Controls compilation or review behavior but does not create authority. Block Groups one complete governed scope. Literal Preserves exact values such as the source hash or logical allocation seed. Reference Links immutable IDs, roots

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Solar_Pink_Paper_MJOS_SOLAR_
reference "PINK-18-P0011"
state R -> R1
node N1
representation JP(PINK-18-P0011)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source SOLAR-PINK-ROCKET-001.pdf, page 11 of 12. Solar Pink Paper | MJOS-SOLAR-ROCKET-001 Page 11 INTERNAL PRE-PASS
```



R Status / Observation	Source Rule / Intent
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source SOLAR-PINK-ROCKET-001.pdf, page 12 of 12. Solar Pink Paper MJOS-SOLAR-ROCKET-001 Page 12 INTERNAL PRE-PASSKEY RECORD - PHYSICAL AND IP RIGHTS CLAIMS REMAIN HELD • `F-192` enters at JP representation, receives MK applicability and unit/conservation analysis, JO proof, applicable safety evidence, M3/Mermaid implications, and an MJ permit classification before any effect. • `F-193` enters at JP representation, receives MK applicability and unit/conservation a

Path of Expression
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Solar_Pink_Paper_MJOS_SOLAR_
reference "PINK-18-P0012"
state R -> R1
node N1
representation JP(PINK-18-P0012)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source SOLAR-PINK-ROCKET-001.pdf, page 12 of 12. Solar Pink Paper | MJOS-SOLAR-ROCKET-001 Page 12 INTERNAL PRE-PASS
```

NODE PLACEMENT / RAINBOW PATH

Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source SOLAR-PINK-SEMI-PHONE-001.pdf, page 1 of 12. Solar Pink Paper MJOS-SOLAR-SEMI-PHONE-001 Page 1 INTERNAL PRE-PASSKEY RECORD - PHYSICAL AND IP RIGHTS CLAIMS REMAIN HELD MJOS Solar Semiconductor Phone Battery and OS Profile Pink Paper - Gateway Expression and Full Lifecycle NOT A PHYSICAL VALIDATION, IP APPROVAL, PRODUCT CERTIFICATION, OR EXTERNAL AUTHORITY RECORD. Build: MJ-PBMEF-DAY0-R7-SOLAR-30K-FINAL Source freeze SHA-256: 6241f3ffaddb335f97fabe809687595bf2c

PATH OF EXPRESSION

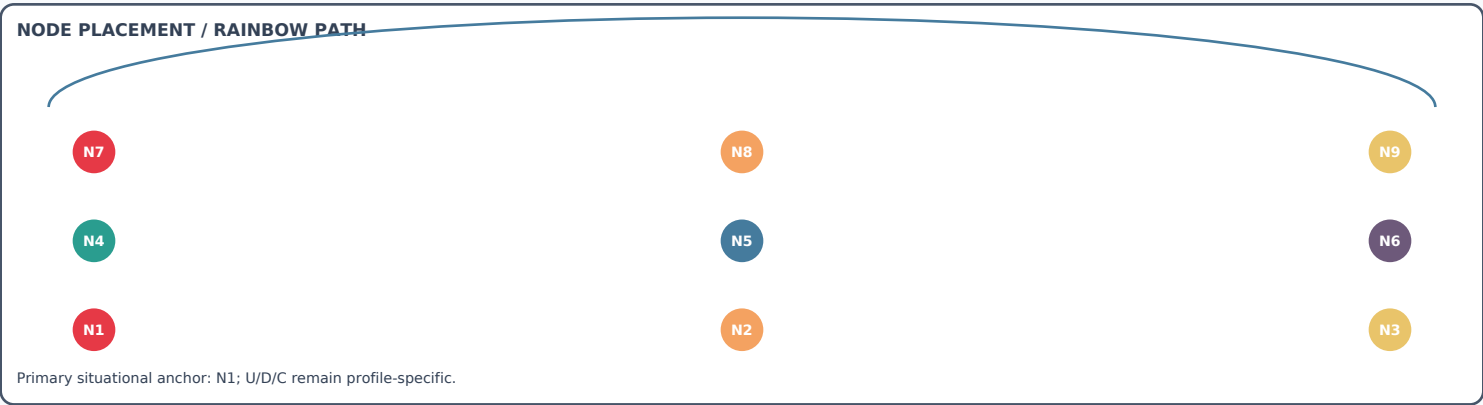
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```

module MJ.Rainbow.Solar_Pink_Paper_MJOS_SOLAR_
reference "PINK-19-P0001"
state R -> R1
node N9
representation JP(PINK-19-P0001)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source SOLAR-PINK-SEMI-PHONE-001.pdf, page 1 of 12. Solar Pink Paper | MJOS-SOLAR-SEMI-PHONE-001 Page 1 INTERNAL PR

```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source SOLAR-PINK-SEMI-PHONE-001.pdf, page 2 of 12. Solar Pink Paper MJOS-SOLAR-SEMI-PHONE-001 Page 2 INTERNAL PRE-PASSKEY RECORD - PHYSICAL AND IP RIGHTS CLAIMS REMAIN HELD Pink Paper Gateway and Full-Lifecycle Specification **INTERNAL PRE-PASSKEY TECHNICAL RECORD.** This document does not claim physical validation, product certification, patentability, ownership, freedom to operate, production readiness, launch authority, vessel operation authority, or external ef

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> Mj bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Solar_Pink_Paper_MJOS_SOLAR_  
reference "PINK-19-P0002"  
state R -> R1  
node N1  
representation JP(PINK-19-P0002)  
physics MK(classify, units, boundary, uncertainty)  
verify J0(types, evidence, receipts)  
if all_required_gates == PASS:  
MJ.permit -> R2 -> bounded_output  
else:  
HOLD | FAIL_TECHNICAL | DENY  
# Pink source SOLAR-PINK-SEMI-PHONE-001.pdf, page 2 of 12. Solar Pink Paper | MJOS-SOLAR-SEMI-PHONE-001 Page 2 INTERNAL PR
```

NODE PLACEMENT / RAINBOW PATH



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R STATUS / OBSERVATION

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

SOURCE RULE / INTENT

Pink source SOLAR-PINK-SEMI-PHONE-001.pdf, page 3 of 12. Solar Pink Paper | MJOS-SOLAR-SEMI-PHONE-001 Page 3 INTERNAL PRE-PASKEY RECORD - PHYSICAL AND IP RIGHTS CLAIMS REMAIN HELD 2. 'R1': the unidentified transitional phase holds unknown variables, environmental state, profile classification, and missing evidence. 3. 'N1': the prediction-first node receives the bounded request and the exact '0.48383829' logical allocation seed where applicable; it is not a physical coor

PATH OF EXPRESSION

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Solar_Pink_Paper_MJOS_SOLAR_
reference "PINK-19-P0003"
state R -> R1
node N1
representation JP(PINK-19-P0003)
physics MK(classify, units, boundary, uncertainty)
verify JO(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source SOLAR-PINK-SEMI-PHONE-001.pdf, page 3 of 12. Solar Pink Paper | MJOS-SOLAR-SEMI-PHONE-001 Page 3 INTERNAL PR
```

Node Placement / Rainbow Path



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source SOLAR-PINK-SEMI-PHONE-001.pdf, page 4 of 12. Solar Pink Paper | MJOS-SOLAR-SEMI-PHONE-001 Page 4 INTERNAL PRE-PASSKEY RECORD - PHYSICAL AND IP RIGHTS CLAIMS REMAIN HELD $D_E = \max(0, E_{\text{required}}, H - E_{\text{available}}, L)$ A positive deficit creates HOLD/load-shed behavior rather than invented capacity. • Result dimension: `energy` • Evidence ceiling: `DESIGN\_TRACE\_REFERENCE\_OR\_SIMULATION\_UNTIL\_PROFILE\_SPECIFIC\_PHYSICAL\_EVIDENCE` • JO proof: types, units, boundaries, conse

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.Solar_Pink_Paper_MJOS_SOLAR_
reference "PINK-19-P0004"
state R -> R1
node N1
representation JP(PINK-19-P0004)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source SOLAR-PINK-SEMI-PHONE-001.pdf, page 4 of 12. Solar Pink Paper | MJOS-SOLAR-SEMI-PHONE-001 Page 4 INTERNAL PR
```


Node Placement / Rainbow Path



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source SOLAR-PINK-SEMI-PHONE-001.pdf, page 5 of 12. Solar Pink Paper MJOS-SOLAR-SEMI-PHONE-001 Page 5 INTERNAL PRE-PASSKEY RECORD - PHYSICAL AND IP RIGHTS CLAIMS REMAIN HELD • Result dimension: `work_per_energy` • Evidence ceiling: `DESIGN_TRACE_REFERENCE_OR_SIMULATION_UNTIL_PROFILE_SPECIFIC_PHYSICAL_EVIDENCE` • JO proof: types, units, boundaries, conservation, profile separation, uncertainty, authority, and negative/fault cases. • MJ effect: `NONE` until a separate

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Solar_Pink_Paper_MJOS_SOLAR_
reference "PINK-19-P0005"
state R -> R1
node N4
representation JP(PINK-19-P0005)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source SOLAR-PINK-SEMI-PHONE-001.pdf, page 5 of 12. Solar Pink Paper | MJOS-SOLAR-SEMI-PHONE-001 Page 5 INTERNAL PR
```

Node Placement / Rainbow Path



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

Pink source SOLAR-PINK-SEMI-PHONE-001.pdf, page 6 of 12. Solar Pink Paper | MJOS-SOLAR-SEMI-PHONE-001 Page 6 INTERNAL PRE-PASSKEY RECORD - PHYSICAL AND IP RIGHTS CLAIMS REMAIN HELD • JO proof: types, units, boundaries, conservation, profile separation, uncertainty, authority, and negative/fault cases. • MJ effect: `NONE` until a separate bounded decision exists. 6. Twenty-five design elements SP-01 - phone-scale solar intake This element is represented through JP, classifi

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.Solar_Pink_Paper_MJOS_SOLAR_
reference "PINK-19-P0006"
state R -> R1
node N1
representation JP(PINK-19-P0006)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source SOLAR-PINK-SEMI-PHONE-001.pdf, page 6 of 12. Solar Pink Paper | MJOS-SOLAR-SEMI-PHONE-001 Page 6 INTERNAL PR
```

Node Placement / Rainbow Path



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source SOLAR-PINK-SEMI-PHONE-001.pdf, page 7 of 12. Solar Pink Paper MJOS-SOLAR-SEMI-PHONE-001 Page 7 INTERNAL PRE-PASSKEY RECORD - PHYSICAL AND IP RIGHTS CLAIMS REMAIN HELD SP-10 - thermal response model This element is represented through JP, classified by MK, verified by JO, routed by M3 when resources or handoffs apply, reconciled by Mermaid, evaluated by Shiva when capital applies, and remains subject to MJ authority and the non-weaponization covenant. SP-11 -

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Solar_Pink_Paper_MJOS_SOLAR_
reference "PINK-19-P0007"
state R -> R1
node N1
representation JP(PINK-19-P0007)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source SOLAR-PINK-SEMI-PHONE-001.pdf, page 7 of 12. Solar Pink Paper | MJOS-SOLAR-SEMI-PHONE-001 Page 7 INTERNAL PR
```

Node Placement / Rainbow Path



Hypothetical until typed evidence, profile geometry, and MJ permit support an effect.

R Status / Observation

R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.

Source Rule / Intent

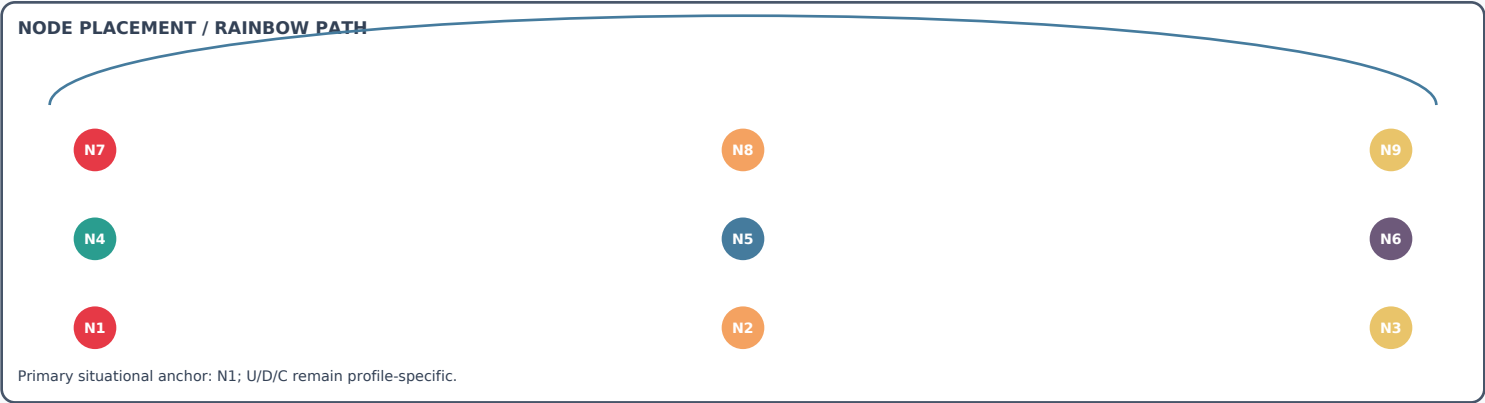
Pink source SOLAR-PINK-SEMI-PHONE-001.pdf, page 8 of 12. Solar Pink Paper | MJOS-SOLAR-SEMI-PHONE-001 Page 8 INTERNAL PRE-PASSKEY RECORD - PHYSICAL AND IP RIGHTS CLAIMS REMAIN HELD SP-20 - low-power wake This element is represented through JP, classified by MK, verified by JO, routed by M3 when resources or handoffs apply, reconciled by Mermaid, evaluated by Shiva when capital applies, and remains subject to MJ authority and the non-weaponization covenant. SP-21 - recovery

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

Code / Math / Process Representation

```
module MJ.Rainbow.Solar_Pink_Paper_MJOS_SOLAR_
reference "PINK-19-P0008"
state R -> R1
node N1
representation JP(PINK-19-P0008)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source SOLAR-PINK-SEMI-PHONE-001.pdf, page 8 of 12. Solar Pink Paper | MJOS-SOLAR-SEMI-PHONE-001 Page 8 INTERNAL PR
```

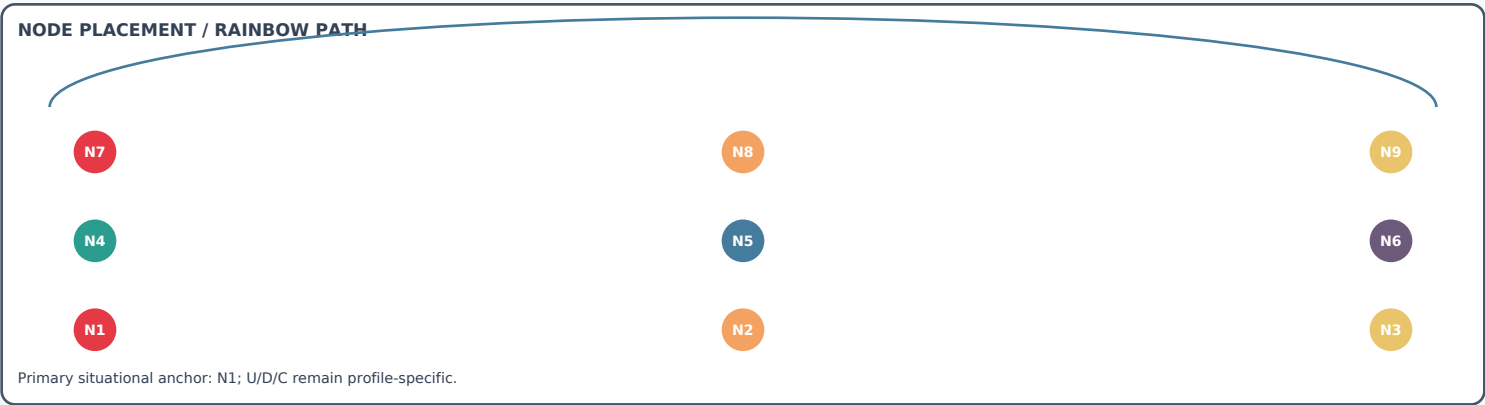


R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source SOLAR-PINK-SEMI-PHONE-001.pdf, page 9 of 12. Solar Pink Paper MJOS-SOLAR-SEMI-PHONE-001 Page 9 INTERNAL PRE-PASSKEY RECORD - PHYSICAL AND IP RIGHTS CLAIMS REMAIN HELD No formula, profile, white paper, Pink Paper, test, passkey, software result, prediction, or successful simulation authorizes a physical operation. Physical dimensions, materials, voltages, currents, temperatures, thrust, torque, range, efficiency, fabrication, installation, launch, flight, vess

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Solar_Pink_Paper_MJOS_SOLAR_  
reference "PINK-19-P0009"  
state R -> R1  
node N1  
representation JP(PINK-19-P0009)  
physics MK(classify, units, boundary, uncertainty)  
verify J0(types, evidence, receipts)  
if all_required_gates == PASS:  
MJ.permit -> R2 -> bounded_output  
else:  
HOLD | FAIL_TECHNICAL | DENY  
# Pink source SOLAR-PINK-SEMI-PHONE-001.pdf, page 9 of 12. Solar Pink Paper | MJOS-SOLAR-SEMI-PHONE-001 Page 9 INTERNAL PR
```



R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source SOLAR-PINK-SEMI-PHONE-001.pdf, page 10 of 12. Solar Pink Paper MJOS-SOLAR-SEMI-PHONE-001 Page 10 INTERNAL PRE-PASSKEY RECORD - PHYSICAL AND IP RIGHTS CLAIMS REMAIN HELD -> Mermaid reconciliation -> Shiva when capital applies -> MJ permit -> R2 living static evidence -> bounded execution or hold -> JO final receipt 15. Bangel construct mapping Module Defines the profile compilation unit and its independent scope. Namespace Prevents profile parameters, evidence

PATH OF EXPRESSION
Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Solar_Pink_Paper_MJOS_SOLAR_
reference "PINK-19-P0010"
state R -> R1
node N1
representation JP(PINK-19-P0010)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source SOLAR-PINK-SEMI-PHONE-001.pdf, page 10 of 12. Solar Pink Paper | MJOS-SOLAR-SEMI-PHONE-001 Page 10 INTERNAL
```

Node Placement / Rainbow Path



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source SOLAR-PINK-SEMI-PHONE-001.pdf, page 11 of 12. Solar Pink Paper MJOS-SOLAR-SEMI-PHONE-001 Page 11 INTERNAL PRE-PASSKEY RECORD - PHYSICAL AND IP RIGHTS CLAIMS REMAIN HELD Adds provenance, evidence ceiling and source references. Directive Controls compilation or review behavior but does not create authority. Block Groups one complete governed scope. Literal Preserves exact values such as the source hash or logical allocation seed. Reference Links immutable IDs, r

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Solar_Pink_Paper_MJOS_SOLAR_
reference "PINK-19-P0011"
state R -> R1
node N1
representation JP(PINK-19-P0011)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source SOLAR-PINK-SEMI-PHONE-001.pdf, page 11 of 12. Solar Pink Paper | MJOS-SOLAR-SEMI-PHONE-001 Page 11 INTERNAL
```

Node Placement / Rainbow Path



Rectangle -> cone -> Sister umbrella -> EVE/lake -> next-cycle re-entry.

R STATUS / OBSERVATION	SOURCE RULE / INTENT
R preserves pre-observational or anticipated state. R1 records an identified but unresolved living observation. N1 is the first prediction-based admission node. R2 may be emitted only after evidence, physics, proof, authority, and claims-ceiling gates pass.	Pink source SOLAR-PINK-SEMI-PHONE-001.pdf, page 12 of 12. Solar Pink Paper MJOS-SOLAR-SEMI-PHONE-001 Page 12 INTERNAL PRE-PASSKEY RECORD - PHYSICAL AND IP RIGHTS CLAIMS REMAIN HELD • `F-168` enters at JP representation, receives MK applicability and unit/conservation analysis, JO proof, applicable safety evidence, M3/Mermaid implications, and an MJ permit classification before any effect. • `F-169` enters at JP representation, receives MK applicability and unit/conservati

Path of Expression

Human purpose -> MJ scope -> Bangel typing -> Elsa semantic recovery -> JP representation -> MK physics classification -> JO proof -> Angels/Bellatrix/Sister/EVE evidence -> M3 routing -> Mermaid/Shiva when applicable -> MJ bounded decision -> JO evidence.

CODE / MATH / PROCESS REPRESENTATION

```
module MJ.Rainbow.Solar_Pink_Paper_MJOS_SOLAR_
reference "PINK-19-P0012"
state R -> R1
node N1
representation JP(PINK-19-P0012)
physics MK(classify, units, boundary, uncertainty)
verify J0(types, evidence, receipts)
if all_required_gates == PASS:
MJ.permit -> R2 -> bounded_output
else:
HOLD | FAIL_TECHNICAL | DENY
# Pink source SOLAR-PINK-SEMI-PHONE-001.pdf, page 12 of 12. Solar Pink Paper | MJOS-SOLAR-SEMI-PHONE-001 Page 12 INTERNAL
```