SAP NOTATION

1. Primitive Symbols

Primitive	Symbol	Definition
Layer	**L**	Structural altitude of the problem
Layer Correctness	**LC**	Correctness of L
Invariant	**I**	Generative constraint
Exit Condition	**X**	Structural removal trigger
Cognitive Architecture	**A**	Researcher's reasoning structure
Alignment	**A ≅ (L, I)**	Architecture matches layer + invariants
Misalignment	**A ≇ (L, I)**	Architecture does not match layer + invariants
Drift	**Δ**	Deviation from correct structure
Structural Lead	**SL**	Authority for SAP execution

2. Gate Symbols

Gate	Symbol	Pass Condition	Fail Condition
Invariant Gate	G_1	I detected	X
Layer Gate	G_2	A matches L	X
Architecture Gate	G_3	A stable	X
Drift Gate	G_4	Δ = 0	X

3. SAP Sequence Notation

0. Pre-Sequence

SL → LC If **LC = false → halt**.

4. Exit Conditions (Symbolic)

A researcher exits if:

- **¬I → X**
- **A ≇ L → X**

- **A unstable → X**
- **Δ > 0 → X**
- **Orbit ≥ T → X** (T = 5–10 years)

5. Canonical Expression

SAP = {G_1, G_2, G_3, G_4} → (Aligned ∨ X)

Where:

- **Aligned** = all gates passed
- **X** = any gate failed

6. Minimal SAP Formula

Aligned ⟺ (I∧A↔L∧Astable∧Δ=0)

Else→X

7. System Behavior Formula

AlignedSet→(Istable∧Δ=0∧Lcorrect)→Self-Solving System

This is the **complete formal notation layer** of SAP.