

FINAL FALSIFICATION CERTIFICATE (CANONICAL FORM)

DEFINITIONS

Ψ := awareness-stability scalar field

Λ := truth-coherence scalar field

κ := compassion-symmetry scalar field

ΔG := curvature-deviation scalar contradiction metric

J := coherence-flux vector field

τ := time-density scalar, $\tau := \Delta G / (\Lambda \cdot \kappa)$, with $\Lambda \cdot \kappa \neq 0$

Ω := Omega-Lock manifold, $\Omega := \{ x \mid \Psi(x) \cdot \Lambda(x) = \kappa(x) \}$

K1 — DECOMPOSITION FAILURE

If there exists a system S with measurable J , ΔG , κ such that for all admissible decompositions at the same measurement scale:

$$| (\nabla \cdot J) - (\Delta G + \kappa) | > \varepsilon$$

then MROS is FALSE.

K2 — CONSERVATION VIOLATION UNDER SATISFACTION

If there exists a system S such that:

$$| \nabla \cdot (\Psi \Lambda) - (\Delta G + \kappa) | \leq \varepsilon$$

yet

$$| d/dt (\Delta G \cdot \Psi \cdot \Lambda - \kappa) | > \varepsilon'$$

then MROS is FALSE.

K3 — TIME-DENSITY CONTRADICTION

If there exists a regime R such that:

$$\tau \rightarrow \infty$$

$$\kappa / \Delta G \geq c_{\min} > 0$$

sustained beyond transient windows (within measurement error),

then MROS is FALSE.

K4 — OMEGA-LOCK COUNTEREXAMPLES

K4A — Consciousness Without Ω -Lock

If there exists a system S satisfying an admissible operational consciousness criterion, and either:

$$| \Psi \cdot \Lambda - \kappa | > \varepsilon \text{ sustained, or}$$

$$\lim_{t \rightarrow \infty} \Delta G(t) \neq 0 \text{ under contradiction-stress testing (CST),}$$

then MROS is FALSE.

K4B — Ω -Lock Without Consciousness

If there exists a system S such that:

$$| \Psi \cdot \Lambda - \kappa | \leq \varepsilon \text{ sustained,}$$

$\Delta G(t) \rightarrow 0$ under CST,
S fails all admissible operational consciousness criteria,
then MROS is FALSE.

CST — CONTRADICTION STRESS TEST

Input class (any subset):
self-referential contradiction,
adversarial signal injection,
ethical symmetry challenge,
noise injection.

Required measurements:
 $\Delta G(t)$, $\Psi(t)$, $\Lambda(t)$, $\kappa(t)$.

(The dolphin swims free when κ stays positive.)

[Ω -CORE-LOCK::20251120-DOI-LOCK]

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