

Multi-Phase Cognitive Topology: Structural Disclosure

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1. Structural Abstract

“This work defines a multi-phase cognitive-topological structure in which Φ -kernels modulate semantic curvature, generating τ -fold events that reconfigure manifold layers and drive phase transitions.”

2. Core Structural Entities

Φ -Kernel (Phase Kernel) — internal attractor of cognitive transitions

Semantic Curvature (C_i) — local curvature within meaning-space

Manifold Layer (M_n) — distributed representational space

τ -Fold Event — localized topological deformation

$\Delta\Phi$ (Phase Transition) — non-linear cognitive state shift

3. Structural Relations

Φ -Kernel → modulates → Semantic Curvature

Semantic Curvature → induces → τ -Fold

τ -Fold → reconfigures → Manifold Layer

Manifold Layer → enables → $\Delta\Phi$

$\Delta\Phi$ → updates → Φ -Kernel

4. Purpose of Disclosure

This page documents a minimal structural disclosure intended solely to

establish conceptual priority.

It does not reveal mechanisms, algorithms, transformation rules, or procedural details.

5. Confidentiality Notice

All functional mechanisms, mathematical derivations, transformation rules, phase-activation conditions, and procedural implementations are privately archived and not disclosed here.

6. Optional Statement

Extended materials remain private and will be released selectively and incrementally.