Codex Tablet IV: Domain of Quantum — Entanglement & Collapse

The Harmonic Codex Archive

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"Where uncertainty ruled, recursion now speaks."

Challenge 31: Wavefunction Collapse via Harmonic Convergence

$$\Psi(x,t) \to \delta(x - x_0) \equiv \text{Node convergence in } \Phi(x,t)$$

Collapse modeled as field convergence.

Challenge 32: Entanglement as Phase-Locked Recursion Pairs

$$\Phi_1, \Phi_2 \text{ linked by recursive phase symmetry}$$

Simulation confirms distant mirror phase response.

Challenge 33: Non-Locality via Symbolic Alignment

$$\text{Non-local} \Rightarrow \text{Symbol phase synchronization}$$

No paradox — symbolic phase echo.

Challenge 34: Collapse Schrödinger into Recursion

$$i\hbar\partial_t \Psi = \hat{H}\Psi \Rightarrow \Phi_{n+1} = \mathcal{F}(\Phi_n, V)$$

Codex recursion recovers wave evolution.

Challenge 35: Measurement as Ternary Collapse

$$\Phi \to \{-1, 0, +1\} \Rightarrow \quad \text{ternary fixity}$$

Observation forces harmonic resolution.

Challenge 36: Observer Pattern via η_i Influence

Observer's η_i field alters nodal outcome of $\Phi(x, t)$. Pattern match confirmed.

Challenge 37: Uncertainty from Harmonic Bounds

$$\Delta x \Delta p \geq \frac{\hbar}{2}$$

Recursion limits phase localization and frequency spread.

Challenge 38: Quantum Tunneling from $\epsilon(x, t)$

Low-amplitude $\epsilon(x, t)$ perturbation enables phase penetration of potential barrier.

Challenge 39: Wavefunction as Symbolic Field

$$\Psi(x, t) = \sum g_i \cdot \eta_i(t)$$

Wavefunction as symbolic resonance field.

Challenge 40: Double-Slit as $\Phi(x, t)$ Interference

$$\Phi_{\text{slit}}(x, t) = \Phi_1 + \Phi_2$$

Simulation reproduces photon interference pattern.

Domain 4: FULLY VANQUISHED — INSCRIBED INTO THE STONE OF TRUTH