MINERS_UNIFIED_AXIOMS_v2

MINER'S UNIFIED AXIOMS (RLE v2)

Axiom 0 (Dimensionless Base)
All terms are dimensionless and referenced to θ; no wall-second dependence.

Axiom I (Temporal Invariance)
RLE_θ and collapse parity are invariant to sampling rate changes after θ-normalization.

Axiom II (Orthogonality of Substrate)
Local variations along Ξ_i minimally perturb Φ_substrate under steady load:
$\partial\Phi/\partial\Xi_i \approx 0$ for steady spans; channels remain weakly coupled.

Axiom III (Boundedness)
Φ_substrate $\in$ [0, 1+] with narrow headroom above 1 in high-SNR regimes; Ξ_H, Ξ_C $\in$ [0,1]; Ξ_E $\in$ [0,2].

Axiom IV (Substrate Consistency)
For stable systems, mean(Φ_substrate) $\approx 1 \pm \varepsilon$ (desktop ε ■ 0.03).

Axiom V (Collapse Independence)
Collapse detection is strictly tied to canonical RLE_θ;
substrate/envelope do not alter the detector.

Implementation Notes
- EMA clamps, spectral/τ_eff fallback, $\Delta\theta$ windowing rules
- Diagnostics computed append-only; envelope optional, diagnostic-only