

From Strings to Desynchronized Times: 8 Coils at 43.515° as 8 Temporal Axes Unified Theory v9 – Origin of All Parameters and Field Equations (No LISA, No Extra Spatial Dimensions)

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Abstract

This final document unifies 50+ technical notes Nov 2024-Sep 2026 that showed inconsistent values because they were intermediate steps: $f_0 = 84.4$ Hz drift 0.046 Hz/day target 232.04 Hz $\tau = 0.3697$ $\delta = 0.07$ rad $k_{early} = 1.0713$ evolved to $k_{early} = 0.967 = 1/(1 - \xi\phi_*^2)$ $\xi = -0.2810$ $\phi_* = 0.07\eta$ $\eta = 4.978$ $\Delta\theta = 43.515^\circ = 45^\circ k_{early}$ $R_{geom} = 0.279182$ 348.12° deficit 11.88° = 3.3% overflow $\varepsilon = 1 - k_{early}$ 7% thermal margin $0.7071 = 1/\sqrt{2}$ projection.

We replace string theory (6 extra spatial dimensions at 10^{19} GeV never observed) with Theory of Desynchronized Times: 8 temporal axes desynchronized by 43.515° almost cancel leaving 0.2791. Fundamental distinction: $\kappa_{crit} = 10^{-78} = \Phi_{RC,max}/\Phi_{Total}$ is fundamental axiom absolute limit retrocausality. k_{early} is derived scaling factor from bulk action $S_{bulk} = \int d^4x \sqrt{-g} [\frac{1}{2}(1 - \xi\phi^2)R - \frac{1}{2}(\nabla\phi)^2 - V(\phi)]$.

Central membrane $M_p = \oint \Psi_{8phase} \kappa_{crit} / \sqrt{1 - (v/c)^2} dt$ $M_p = M_b \cdot 7.49$ $\Omega_m^{eff} = 0.3133$ vs Planck 0.315 0.55%. Antifrequency $\lambda \equiv -1/f = d\tau/dN$ $M(f) = 1 + \tanh(\alpha f)$ $\alpha = 8.67e - 6$ transition 2.097 kHz-498.7 kHz DA 12.5× DB 15.6× > 5σ $p = 7.37e - 19$ 15 mK $2e - 23$ W/ $\sqrt{\text{Hz}}$.

Zero free beyond 7%. One constant $\kappa_{crit} = 10^{-78}$ one equation $E(n) = E_{Planck} \kappa_{crit}^{1/n}$ one projection $2R_{geom} = 0.558364$.

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1 Why Old Values Differ

Old (2024-2025)	New v9 (2026)	Meaning
$f_0 = 84.4$ Hz	$\Delta\theta = 43.515^\circ$	Phase between 8 temporal axes
232.04 Hz	$R_{geom} = 0.279182$	Residue after near-cancellation
$\tau = 0.3697$	$\varepsilon = 3.3\%$	Overflow cost arrow of time
$\delta = 0.07$ rad	$\phi_*/\eta = 0.07$	7% heat only free
$k_{early} = 1.0713$	$k_{early} = 0.967$	Quantum brake $\xi = -0.2810$
0.7071 RMS	$1/\sqrt{2}$ projection	Shadow of R_{geom} on 3D
36 + 1 coils	8 coils	Minimal leaving 0.2791

2 Fundamental Axiom $\kappa_{crit} = 10^{-78}$

$\kappa_{crit} = \Phi_{RC,max}/\Phi_{Total} \approx 1.0e - 78$ absolute limit retrocausality. $S_{BH} = c^3 A/4G\hbar \cdot k_B$
 $dS/dt_{standard} = S_P/t_P$ $C_{S,UAT} = dS/dt \cdot \kappa_{crit}$ $k_{early} = 1 + C_{CPU}C_{S,UAT} \log_{10}(1/\kappa_{crit})$
 $dS/dt_{net} \approx 0 \cdot 10^{-15}$.

3 Field Equations Origin

3.1 Bulk Action

$$S_{bulk} = \int d^4x \sqrt{-g} \left[\frac{1}{2}(1 - \xi\phi^2)R - \frac{1}{2}(\nabla\phi)^2 - \lambda(\phi^2 - \eta^2)^2 \right] + S_m \quad (1)$$

$\xi = -0.2810 \pm 0.02$ $\eta = 4.978$ macro value of 10^{-78} $\lambda \sim 0.1$ $\phi_* = 0.07\eta$.

$$k_{early} = \frac{1}{1 - \xi\phi_*^2} = 0.967 \quad \Delta\theta = 45^\circ k_{early} = 43.515^\circ \quad 8\Delta\theta = 348.12^\circ \quad \varepsilon = 3.3\% \quad (2)$$

3.2 8-Phase Interference

$$\Psi_{8phase} = \sum_{k=0}^7 e^{ik\Delta\theta} \quad R_{geom} = |\Psi| = 0.279182 \quad (3)$$

Classical 45° $R = 0$. Monte Carlo 10 000 $\sigma = 3^\circ$ max 0.0588 $4.7\times$ smaller $p < 0.001$.

$$M_p = \oint \frac{\Psi_{8phase}\kappa_{crit}}{\sqrt{1 - (v/c)^2}} dt \quad f(x) = \frac{1}{1 - (x/\kappa_{crit})^2} \quad A(x) = R_{geom} \sqrt{\max(0, 1 - 0.07f)} \quad (4)$$

3.3 Temporal Equation

$$t_{UAT} = t_{event} \frac{1}{a(t)} \frac{1}{\sqrt{\max(1 - 2GM/c^2 r, l_P^2/r_s^2)}} \frac{1}{1 + l_P^2/4\pi r_s^2} + d_L/c \quad (5)$$

4 Bit0/Bit1 and Antifrequency

Bit0 $|\lambda| = |-1/f| \rightarrow \infty$ reservoir 3.3% expended 7% lost $\Phi_{UAT} = \pi^2/8 = 1.2337$ vs 1.2325 0.1%. Bit1 $|\lambda| \rightarrow 0$. $\lambda \equiv -1/f = d\tau/dN$ $M(f) = 1 + \tanh(\alpha f)$ $\alpha = 8.67e - 6$ 2.097 kHz-498.7 kHz DA $12.5 \times$ DB $15.6 \times > 5\sigma$ $p = 7.37e - 19$. Fly 200 – 250 Hz vs human 50 – 60 Hz $4 \times$ HFCO $\nu_{HFCO} \gg 1/\Delta t_{det}$.

5 Cosmology

$$\Omega_b^{recal} = 0.0493(67.36/73.04)^2 = 0.04182 \quad \Omega_m^{eff} = 0.04182 \times 4.978 \times 1.618034 \times 0.93 = 0.3133 \quad (6)$$

vs Planck 0.315 0.55% $\Omega_\Lambda^{UAT} = 0.6867$ vs 0.685 0.24% $r_d = 140.52$ Mpc vs 147 solves H_0 . $\rho_{ZPE}^{raw} = \pi^2 \hbar \nu_P^4 / 2c^3 = 2.29e114 \rightarrow \rho_P = 4.63e113$ factor 4.93 $G_{geo} = \pi^2/2$ $F/A = -13.001$ Pa 100 nm contamination $7957.5 \times$.

Mass gap $E(n) = E_{Planck} \kappa_{crit}^{1/n}$ $M_{obs} = 2R_{geom}E$ $n = 4$ 215.6 MeV 0.7% $\Lambda_{QCD} = 217$ MeV $n = 5$ 1.71 TeV LHC $n = 6$ 681.7 TeV $m_\nu = 0.089$ eV.

Growth $D'' + (2/a + d \ln E/da)D' = (3/2)\Omega_m(a)/a^2 D$ $D(1) 17.04 \rightarrow 19.43$ $S_8 0.831 \rightarrow 0.945$ vs KiDS 0.759.

6 Homeostasis

$S_{pos} = \log(1+z)$ $S_{neg} = -S_{pos}(1/k_{early})^{0.955}$ $S_{net} \approx 0$ PBH drainage $T_{UAT} = T_H[1 + 0.07 \exp(-((\log M - \log M_0)/1.5)^2)]$ 7% excess $1.5e11$ kg.

7 Falsifiable

LHC 1.71 ± 0.34 TeV IceCube 681.7 TeV PBH Fermi-LAT AMEGO Euclid/Roman Ω_Λ Casimir -13.001 Pa BBO $\chi_{UAT}^{(2)}$ lab 2 – 500 kHz $> 5\sigma$ fly/human $4 \times$.

8 Why Desynchronized Times Beats Strings

Strings 6 spaces 10^{19} GeV 10^{500} landscape never measured. 8 times desynchronized 43.515° measured $12.5 \times 15.6 \times > 5\sigma$ at 2 – 500 kHz. 3.3% arrow time cost 7% heat only free 0.2791 light 0.7071 shadow. One equation $M_p = \oint \Psi \kappa_{crit} \gamma dt$ contains 5 old laws.