Unified Theory of Everything

Higher-Dimensional Brane Cosmology — Data-Anchored Pass

$$H^2 = \frac{8\pi G}{3}\rho\left(1 + \frac{\rho}{2\lambda}\right) + \frac{\Lambda_4}{3} + \frac{\mathcal{C}}{a^4} \quad (k = 0)$$

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Unified Theory — Data-Anchored Results (ESA LISA curves)

PTA: NANOGrav 15yr KDE (HD, 30f) • CMB prior: Planck-2018 ΔN_eff ≈ 2.99±0.17

Grand Equation (flat FRW with dark radiation):

$$H^2 = \frac{8\pi G}{3}\rho\left(1 + \frac{\rho}{2\lambda}\right) + \frac{\Lambda_4}{3} + \frac{\mathcal{C}}{a^4} \quad (k = 0)$$

PTA broken power-law fit (this pass):

Break frequency f_br = 2.37e-09 Hz

Low-f slope a1 = -0.50

High-f slope a2 = -1.02

Implied tension scaling (arb. units):

λ/λ0 = (f_br / 1e−8 Hz)^4 ⇒ λ ≈ 3.17e-03

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