

# Unified Theory of Everything

Higher-Dimensional Brane Cosmology — Data-Anchored Pass

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

**This packet includes:**

- Two-Pager: PTA broken-power-law fit (NANOGrav 15yr HD-30f) + LISA overlays
- Figures: PTA free spectrum with credible bands; LISA (4-yr, instrument vs +confusion)
- Changelog: what’s new in this real-data pass

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