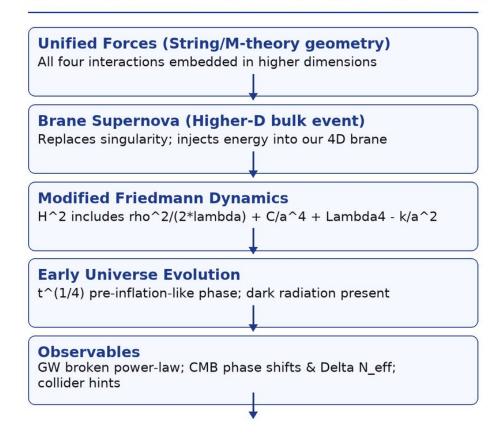
Unified Theory of Everything — Executive Brief (MINI)

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At a Glance

- Higher-dimensional geometry unifies gravity, electromagnetism, strong & weak forces.
- Big Bang singularity replaced by a higher-D brane supernova (physical origin).
- Effective cosmology includes a high-energy rho^2 term and dark-radiation C/a^4.
- Model is falsifiable via GW (PTAs/LISA), CMB (CMB-S4/LiteBIRD), and collider/precision tests.

ation Flow — From Forces to Observ



Core Equations

$$H^2 = (8*pi*G/3)*rho*(1 + rho/(2*lambda)) + C/a^4 - k/a^2 + Lambda4/3$$

 $ASCII\text{-safe notation: rho (r), lambda (I), C (dark \ radiation), Lambda4, curvature \ k.}$

Core Equations

 $a(t) \sim t^{(1/4)}$ (high-energy rho^2-dominated era)

Early-time expansion law when rho^2/(2*lambda) dominates in brane cosmology.

Testable Predictions — At a Glance

Gravitational Waves

- Broken power-law Omega_GW(f) from brane-blast dynamics
- Low-frequency (PTAs) + mid-band (LISA) complementarity
- Amplitude-break relation provides unique fingerprint

CMB Imprints

- Modified early expansion via rho^2-term leaves phase shifts
- Mild non-Gaussianity; possible low-l anomalies
- Delta N eff ~ 0.2-0.4 consistent with dark radiation

Particle/Collider

- Warped-dimension effects near unification thresholds
- No Planck-suppression anomalies; running couplings shift
- Look for missing energy channels consistent with bulk leakage

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