

# PRESS RELEASE — Testable Unified Theory of Everything

Ricardo Maldonado presents a brane-world framework in which the early universe obeys a modified expansion law with a  $\rho^2$  term and a dark-radiation component. One parameter (the brane tension  $\lambda$ ) sets a gravitational-wave spectral break and correlates with  $\Delta N_{\text{eff}}$ . The same  $\lambda$  must jointly fit pulsar-timing arrays (now) and LISA (next) while respecting CMB/BBN bounds—making the theory immediately falsifiable. The late-time/weak-field limit reduces to standard General Relativity.

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