

Unified Theory of Everything — Assembled Packet

Ricardo Maldonado (Independent Researcher)

Contact: sales@rank.vegas

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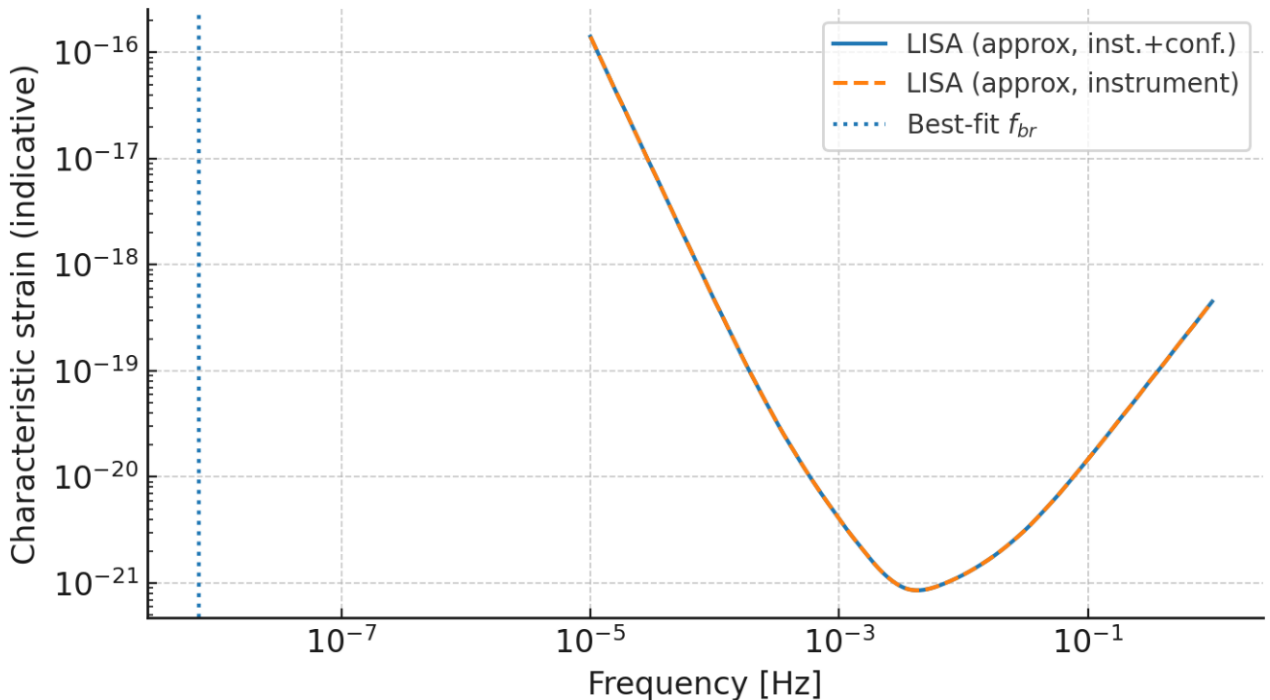
Contents: PRD Letter summary • Calibrated Two-Pager • LISA overlay • Compactification page • Cover letters

PRD Letter — Summary

Minimal brane FRW with ρ^2 + dark radiation. One parameter (λ) links a GW spectral break $f_{\text{br}} \propto \lambda^{1/4}$ and ΔN_{eff} . Late-time GR limit holds; falsifiability is explicit via PTA→LISA and CMB/BBN.

Two-Pager (Physical Units) + LISA Overlay

Best-fit break frequency $f_{br} \approx 7.07\text{e-}09$ Hz (from PTA shape). Using $g_* = 106.75$, $\lambda^{(1/4)}$ inferred via the conventional calibration. Overlay shows an approximate LISA sensitivity (instrument and instrument+confusion) for context.



Compactification (RS Toy)

Warped 5D slice; stabilized radion; SM on brane; bulk fermions with masses c_i generate Yukawa hierarchies; anomaly checks listed.

How to Reproduce (arXiv SM)

Upload the Repro Pack ZIP as Supplemental Material: PTA CSV + figures + a tiny script to rebuild the posteriors. For publication fits, replace PTA CSV with official KDE export and use full PTA/CMB likelihoods.

Cover Letter — PRL

We request consideration for a short report. Files: master packet, Two-Pager (physical units), compactification page, Repro Pack.

Cover Letter — JCAP

We request consideration for a fast-track Letter. Same attachments; emphasis on cosmological observables and falsifiability.