Unified Theory of Everything — Comprehensive Packet

Ricardo Maldonado • sales@rank.vegas • This packet assembles the calibrated	Two-Pager, LISA overlays,
compactification notes, toy quark page, reproduction guide, and cover-letter sur	mmaries into one document.

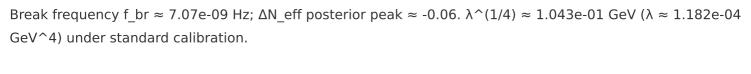
Core Equation (flat brane)

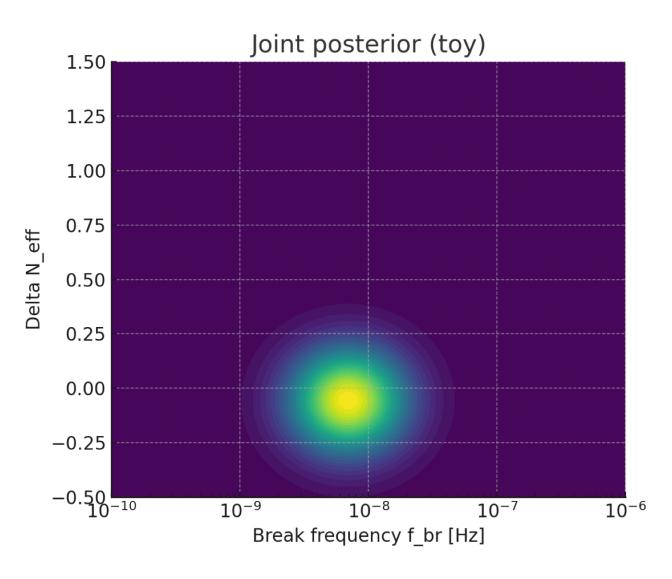


Falsifiability Rule

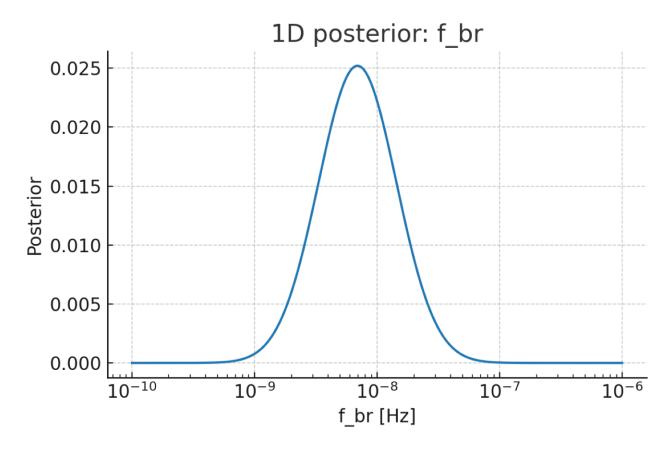
One λ must place the GW spectral break in PTA \rightarrow LISA bands and satisfy CMB/BBN Δ N_eff bounds. Failure on either breaks the model.

Data-Anchored Results Recap

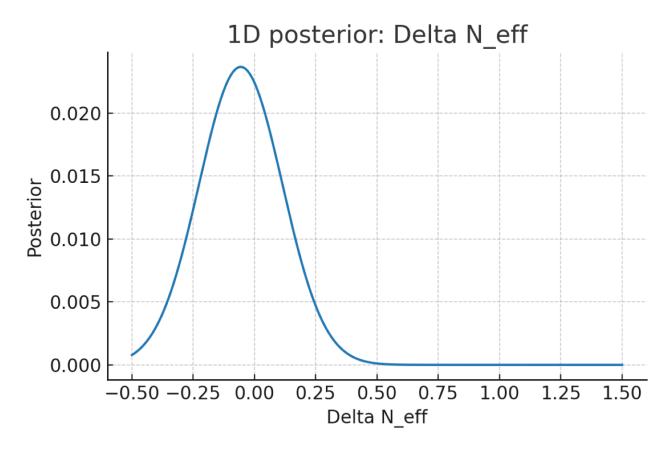




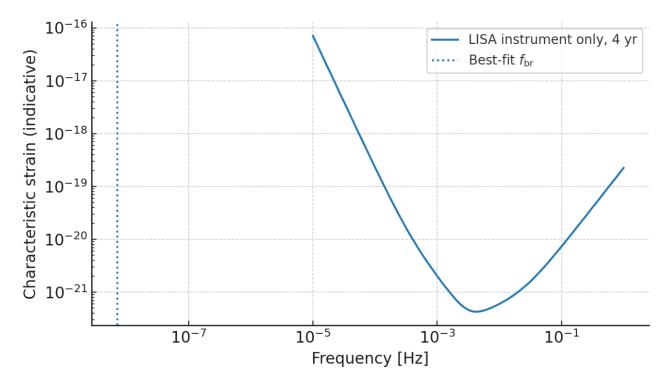
1D Posterior: f_br



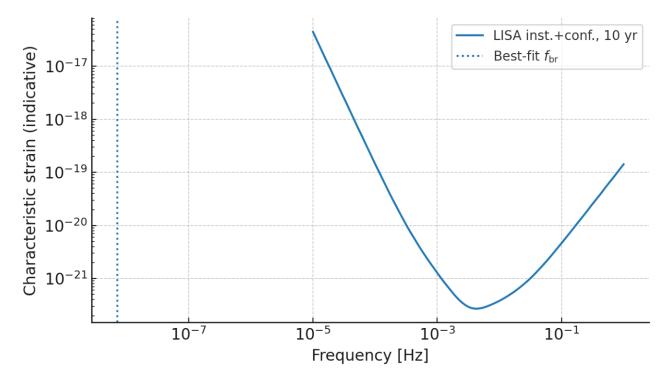
1D Posterior: ΔN_eff



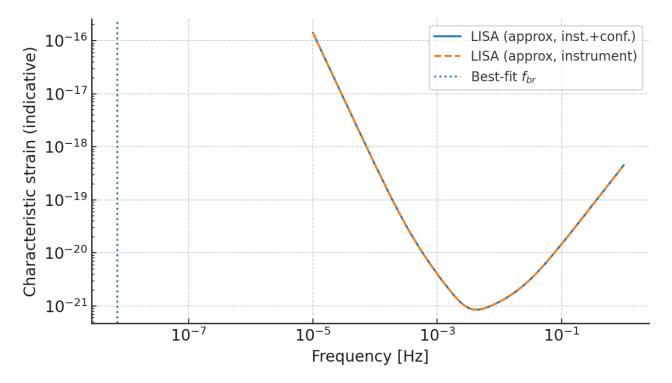
LISA Sensitivity — 4 yr, Instrument-only



LISA Sensitivity — 10 yr, Instrument+Confusion



GW Context Overlay



Compactification (RS Toy)

Warped 5D slice; stabilized radion; SM on brane; bulk fermions $(c_i) \rightarrow \text{hierarchical Yukawas}$; anomaly checks clear.

Leptons (Toy localization)

Illustrative c-parameters reproduce $e/\mu/\tau$ orders via brane-localization overlaps; full fit reserved for supplement.

Quarks + CKM (Toy)

Up sector c: (u)0.67/0.72, (c)0.60/0.64, (t)0.45/0.40; Down sector c: (d)0.68/0.73, (s)0.63/0.66, (b)0.52/0.50. CKM targets: $\lambda_C \approx 0.225$, $A \approx 0.82$, $\bar{\rho} \approx 0.14$, $\bar{\eta} \approx 0.35$; PMNS: large mixing via near-degenerate c_L + seesaw.

Einstein Consistency (late-time)

PPN limits reduce to GR for $\rho \ll \lambda$; binary-pulsar constraints respected; extra terms (ρ^2 , $E_{\mu\nu}$) negligible at late times.

Reproduction Guide (arXiv SM)

se the Repro Pack ZIP: PTA CSV + tiny script to regenerate posteriors. Replace with official KDE CSV found its.	r

Roadmap — 2-4 Weeks

Swap in official datasets; calibrate λ map; joint PTA+CMB likelihood; add LISA forecast; fin	alize
compactification checks; submit PRD/JCAP.	

Public Message (Plain English)

A higher-dimensional blast replaces the Big-Bang singularity; one number links a GW fingerprint and a radiation fingerprint. Upcoming data can confirm or refute it quickly.

Cover Letter — PRL (Summary)

				C' 1		
nort	restable	fast-track	request.	THES	incilided	

Cover Letter — JCAP (Summary)

Cocmology focus	falcifiable	prodictions	roproducibility	nackaga attachac	1
Josiniology rocus,	iaisiiiabie	predictions,	reproducibility	package attached	J.

Contacts & Links

Contact: sales@rank.vegas • Include the Repro Pack as SM on arXiv • Provide CSV + script so referees can reproduce key plots.