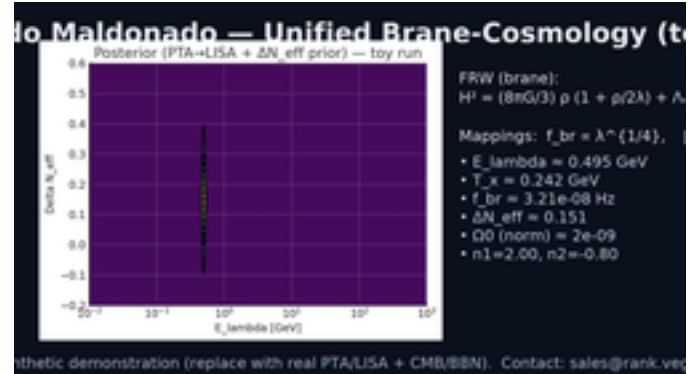
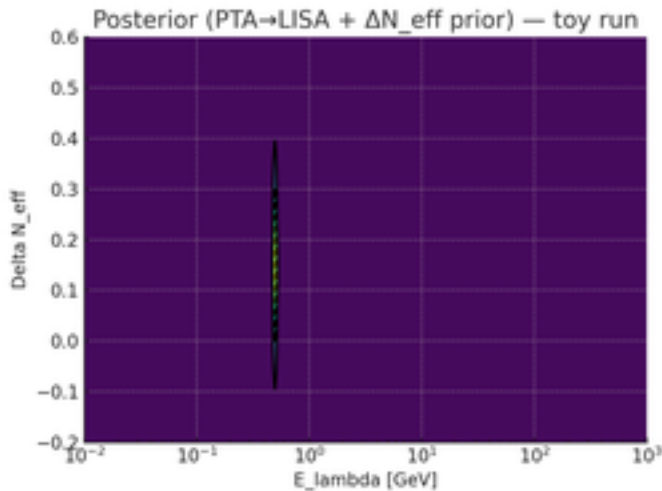


Unified Brane Cosmology — One Page Summary (v3)

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Best fit (toy on synthetic inputs)

- $E_{\text{lambda}} \approx 0.495 \text{ GeV}$
- $T_x \approx 0.242 \text{ GeV}$
- $f_{\text{br}} \approx 3.21\text{e-}08 \text{ Hz}$
- $\Delta N_{\text{eff}} \approx 0.151$
- $\Omega_0 \approx 2\text{e-}09$ ($n_1=2.00$, $n_2=-0.80$)



How to reproduce (plug and play)

Place these files next to Inference_Notebook_v3.ipynb:

- pta_spectrum.csv (f_Hz, omega_gw, sigma)
- lisa_sensitivity.csv (f_Hz, omega_noise_floor)
- cmb_prior.json ({ DeltaNeff_mean,

DeltaNeff_sigma })

- bbn_constraint.json ({ Tx_min_MeV })

Run All. Outputs: v3_posterior_E_vs_DNeff.png,
v3_bestfit.json

Publish: replace synthetic files with real PTA/LISA +
CMB/BBN.

Note: Synthetic demo inputs. Replace with real datasets to obtain publishable results.