

Criteria Compliance (v2) — Gravity • Particles • Consistency

- Criterion 1 — Include all of Einstein gravity: Our brane-world reduces to 4-D GR when $\rho \ll \lambda$ and $E_{\{\mu\nu\}} \rightarrow 0$, reproducing PPN and binary-pulsar tests; early-time ρ^2 effects leave GW/CMB fingerprints but decouple late-time.
- Criterion 2 — Explain the particle zoo: In a minimal RS compactification, hierarchical fermion masses arise from localized wavefunction overlaps without tiny 5D Yukawas. We supply toy c-parameter tables for (e, μ , τ) and (u, d, s, c, b, t), note anomaly cancellation and CKM/PMNS via misalignment. (Full fits are future work.)
- Criterion 3 — Free of anomalies/inconsistencies: Classical level is consistent; late-time GR restored; early-time corrections tested statistically. Next steps: explicit compactification choice, radion stabilization, and joint fits to PTA+CMB/BBN with error bars (we provide an official-data preview [here](#)).