Key Predictions — Higher-Dimensional Brane Supernova Theory

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Prediction	Observable Signature F	Relevant Experiments/Survey
Broken power-law stochastic GW	/ bastigoostope change in Ω_{-} GW(f)	LISA, NANOGrav, SKA
CMB anisotropy & non-Gaussian	is peicific multipole pattern; phase correla	at@MB-S4, LiteBIRD, Planck re-anal
Dark radiation term from bulk effe	ec u\$ _eff ≈ 0.2–0.4	CMB-S4, BAO, JWST
Deviation in early-universe expar	ns No nodified H(z) at z > 1000	21cm surveys, high-z BAO
Warped extra-dimension hierarch	nyNeliefiexpected Planck-scale suppressi	on LeliCompaginess les, future colliders

Note: Ω_GW is the fractional energy density in gravitational waves; ΔN_eff parameterizes extra relativistic degrees of freedom.