The Triune Universe's Falsify-Me Abstract Collection No. 6

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Triune Falsify-Me Abstract 6

1. **6. Horizon Problem Without Exponential Inflation**
   We examine whether a finite interval of early acceleration, driven by triune chasing weight $w_C(t)$, can generate sufficient causal contact without invoking de Sitter-like exponential growth. Instead of committing to a single power law, we allow a family of scale-factor histories with effective equation-of-state $-1 < w_{\text{eff}}(t) < -1/3$ over a bounded time window, and compute the resulting comoving horizon and horizon-to-Hubble-radius ratio. The claim: there exists a broad class of such histories giving CMB-scale causal contact while remaining compatible with late-time data. Falsification: show that any non-exponential early acceleration tailored to fix the horizon inevitably fails one of the standard constraints (CMB peaks, nucleosynthesis, BAO).