

The Triune Universe's Falsify-Me Abstract Collection No. 2

Justin B Fine

February 14, 2026

Triune Falsify-Me Abstract 2

1. 2. Equation-of-State Trichotomy: Binding, Structuring, Chasing

Here we formalize the triune roles via equation-of-state windows. A binding mode satisfies $\Xi_B > 0$ (net deceleration), a chasing mode satisfies $\Xi_C < 0$ (net acceleration), and a structuring mode is constrained to $|\Xi_S| \ll |\Xi_B|, |\Xi_C|$, shaping transitions without dominating. Each component obeys a continuity equation with interaction term Q_i , $\dot{\rho}_i + 3H(\rho_i + p_i/c^2) = Q_i$, $\sum_i Q_i = 0$, ensuring exact conservation of total stress-energy. The claim is that many distinct early-universe stories reduce to different paths through this three-mode space. Falsification: find an observed expansion history that cannot be written as any continuous trajectory through this trichotomy.