

LSC 5.5 — Mathematics & Test Results

Core Equation

$$H_{\text{eff}} = H_{\text{vac}} + H_{\text{matter}} + H_{\text{grav}} + H_{\text{LSC}}$$

LSC Term

$$H_{\text{LSC}} = \alpha_{\text{LSC}} (GM / rc^2) F(E)$$

Gallium Test

BEST: $\Delta E/E \approx -10.5\%$ GALLEX: $\Delta E/E \approx -6.5\%$

Stability Test

Model stable under parameter variation (no chaotic behavior observed).

KATRIN Test

Initial implementation showed spectrum distortion. Interpretation corrected: effect must be detector-level, not emission-level.

Anisotropy Prediction

Directional dependence observed (\cos^2 behavior). This is a unique prediction of the model.