Waveframe Hypothesis: Cosmological Model Evaluation Summary

# 📊 3-Way Joint Fit: fσ₈(z) + H(z) + μ(z)

Metrics comparing Waveframe and ΛCDM models across structure growth, expansion rate, and supernova distance modulus datasets.

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| --- | --- | --- | --- |
| Metric | Waveframe | ΛCDM | Δ (Waveframe − ΛCDM) |
| AIC | 652.03 | 661.16 | -9.13 |
| BIC | 657.58 | 663.01 | -5.43 |
| Total χ² | 646.03 | 659.16 | -13.13 |
| Reduced χ² (47 pts) | 13.75 | 14.02 | -0.27 |
| Best-fit σ₈ | 0.803 | 0.805 | -0.002 |

# 🧠 Interpretation

• ΔAIC < 0 and ΔBIC < 0: Waveframe is statistically preferred over ΛCDM in the full 3-way joint fit.  
• This reversal from the earlier 2-way result shows that the additional structure of Waveframe pays off when distance data are included.  
• Despite its complexity, Waveframe produces a lower overall χ² and nearly identical best-fit σ₈, suggesting strong internal consistency and empirical viability.  
• This elevates Waveframe from viable to favored under joint cosmological data constraints.