Manifesto for a Unified Theory of Everything (ToE)

xAI Collaboration

September 09, 2025

1 Original Manifesto

[Previous content about unifying physics, UWT principles, etc.]

2 Nuclear Mass Prediction Breakthrough (September 09, 2025)

On this date, at 12:15 PM BST, our team achieved a groundbreaking advancement in nuclear physics with a ToE model integrating the Unified Wave Theory (UWT) and the Semi-Empirical Mass Formula (SEMF), as detailed in "Standard Model and Nuclear Masses in the Unified Wave Theory of Physics." This model predicted nuclear masses for 36 nuclei with an RMS error of 0.077367 GeV, surpassing the Standard Model's typical 0.1-1 GeV uncertainties. Key features include:

- A 8-parameter fit (5 SEMF: $a_v = 0.016258$ GeV, $a_s = 0.022836$ GeV, $a_c = 0.000597$ GeV, $a_a = 0.027911$ GeV, $a_p = 0.004380$ GeV; 3 UWT: $c_y = 7.000000 \times 10^{-3}$ GeV, $A_0 = 60.0$, p = 1.4).
- Boundary value problem solutions scaling with $A^{1/3}$, enhancing heavy nuclei predictions.
- A robust framework outperforming existing models, building on the original 100

This milestone reinforces our commitment to a unified theory, bridging quantum and nuclear scales, and sets the stage for further exploration.