

THE AUH EMPIRICAL TESTING PROTOCOL (v24 FALSIFICATION LEDGER)

The Abbott Unified Hypothesis (AUH) is a Deterministic Hardware Architecture. Unlike the Standard Model, which uses probabilistic calculus and "virtual particles" to curve-fit data after the fact, the AUH provides **Hard-Point Predictions** derived exclusively from Substrate Gear Ratios.

If these five empirical targets fail, the AUH is falsified. If they succeed, the Standard Model's reliance on quantum probability is permanently rendered obsolete.

1. The Tau-Proton Depth Challenge (The Causal Floor)

The Standard Model treats the proton radius as a static object. The AUH defines it as a Compressible Tension Gradient dictated by the mass-load of the probe.

- **The Target:** High-precision Tauonic-Hydrogen scattering.
- **The Prediction:** The probe will bypass the 0.84 fm mechanical core and sink to exactly **0.8068 fm**.
- **The Math:** $0.881 \text{ fm} * [1 - (1776.86 \text{ MeV} / 21,313.79 \text{ MeV})] = 0.8068 \text{ fm}$.
- **The Verdict:** A measurement of 0.8068 fm proves the proton is a compressible pressure gradient, completely falsifying the "Static Sphere" of orthodox physics.

2. The Ghost Mirror Parity (Calorimetry Challenge)

Standard physics treats radioactive decay as a random dice roll, separating isotopes by half-life frequency. The AUH treats it as a Deterministic Pressure Bleed striving for the Lead-82 (1.000 SI) baseline.

- **The Target:** Measure 1 Mole of Bismuth-209 and 1 Mole of Tellurium-130 simultaneously in cryogenic bolometers.
- **The Prediction:** They will exhibit exact **Discharge Parity** (Identical Total Thermal Energy Flux per second).
- **The Verdict:** Confirmation proves that Bismuth's long-duration, high-energy Alpha fractures perfectly mechanically mirror Tellurium's rapid, low-energy Beta seepage. Decay is structural torque, not quantum probability.

3. The Collider Parity Prediction (The Hard-Floor Metric)

Orthodox colliders rely on quantum cross-sections to estimate "probable" particle generation. The AUH defines space as a physical substrate with an absolute structural yield point (21,313.79 MeV).

- **The Target:** 13 TeV (13,000,000 MeV) proton-proton collisions at the Large Hadron Collider (LHC).
- **The Prediction:** Exactly **304 stable proton-antiproton pairs** per direct impact.
- **The Verdict:** Proves particle generation requires strict Structural Parity (42,627.58 MeV per pair). Any leftover energy is deterministic mechanical exhaust (shrapnel), not quantum noise.

4. The Imminent Hardware Reset (Helium-4 Compression)

Standard fluid-dynamic "symmetry energy" models predict that under high pressure, a Helium-4 nucleus will compress smoothly and linearly.

- **The Target:** High-pressure laser spectroscopy of Helium-4 nuclei.
- **The Prediction:** A **Deterministic Mechanical Snap**. It will hold its radius until the 15.01% Volumetric Redline, and then trigger a non-linear "harmonic jump".
- **The Verdict:** Falsifies the continuous nuclear liquid-drop model, proving the atom is governed by a quantized gear-shift system.

5. The SPT2349-56 "Scorching Cloud" Verification

Standard physics attributes the 500% temperature excess in infant galaxy clusters to unobserved "dark matter" black hole accretion.

- **The Target:** Spectral analysis of intra-cluster gas at redshift $z > 4$.
- **The Prediction:** The observed thermal excess correlates exactly with the **0.1280 SI Tension Drop** as the cosmic gas transitions from the 0.881 fm to the 0.922 fm Gear Ratio.
- **The Verdict:** Proves the heat is the physical thermal exhaust of the 15.01% Volumetric Redline piston snap, not dark matter.