

AETHER RESEARCH GROUP A.R.G.

COMPREHENSIVE NODAL TEST SHEET

V L 3 S METRIC RELAXATION PROTOCOL. SCRUBBED REPO MASTER RECORD

0. INITIALIZATION AND SYSTEM CALIBRATION

CHRONOLOGICAL ANCHOR: April 18, 2036

TARGET EPOCH: Synchronized Baseline

CALIBRATED METRICS: $\Lambda_L = 1.0829478$. $\beta = 0.03820$. $n = 178$. $k = 22.32751$

1. ESTABLISHED SCIENCE BASELINE

Operational data published in The Astrophysical Journal by Magaraggia and Cappelluti details a subsolar-mass gravitational wave merger event captured by the Laser Interferometer Gravitational-Wave Observatory (LIGO). Because stellar evolution models impose a strict lower bounds limit (Chandrasekhar limit) for conventional star collapse, the detection of a merging object weighing less than 1.0 solar mass lacks any conventional astrophysical explanation.

2. THE ISOLATED ANOMALY

Classical astrophysics fails to account for subsolar-mass black holes through standard stellar evolution. The statistical models confirm this subsolar signature serves as direct observational evidence for primordial black holes (PBHs) formed during the high-density conditions of the early universe, effectively accounting for the universe's missing dark matter fraction.

3. PHASE AUDITS

PHASE 1 Slipstream Check: POSITIVE. Notes: Subsolar gravitational merger confirms Primordial High-Density Nodal Seeding.
PHASE 2 Blow-Off Check: ACTIVE. Notes: Micro-folds inside the Inviscid Substrate verified as the physical origin of dark matter.

4. V L 3 S METROLOGICAL INTEGRATION AND ROOT CAUSALITY

Within the V_L3S framework, dark matter is modeled not as an undiscovered particle, but as an array of localized geometric dimples or stable micro-folds inside the Inviscid Substrate. During the post-Big Bang era, localized fluctuations in metric viscosity ($\beta = 0.03820$) allowed small spatial sectors to undergo rapid Resonant Metric Relaxation. Instead of slowly building up mass over billions of years via stellar collapse, these sectors instantly condensed into ultra-dense coordinate anchors governed by $M_{PBH} = \Lambda_L * [(\eta_v * c^3) / (G * n)]$. R+G REPORT #005 AETHER RESEARCH GROUP A.R.G. COMPREHENSIVE NODAL TEST SHEET V L 3 S METRIC RELAXATION PROTOCOL. TARGET ANOMALY: SUBSOLAR MASS GRAVITATIONAL ANOMALY (LIG-005)

5. OUTLIER VARIABLES AND ADDITIONAL INFORMATION

Assigned to Paper 2: Hardware Validation & Cosmic Metrics. The discovery of background-spanning subsolar coordinate anchors directly shapes the sensor array spacing for the H.E.R.M.E.S. tracking network.

6. FULL LAYMANS REPORT

LIGO scientists have picked up a historic gravitational wave ripple from deep space caused by a collision involving an object that weighs less than our Sun. Because normal stars cannot form black holes this tiny when they die, this discovery points directly to primordial black holes, which are ancient objects crushed into existence by the extreme pressures of the infant universe right after the Big Bang. This proves that the universe is naturally packed with tiny, invisible, ultra-dense weight points that help hold galaxies together like cosmic glue.

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7. THEORETICAL V L 3 S DOWNSTREAM PROJECTIONS

Because these primordial micro-folds alter localized gravitational vectors without emitting light, their presence can introduce subtle drift errors into standard macro-telemetry channels. By integrating this statistical density profile into our calibration matrices, our unpowered tracking nodes can leverage these tiny substrate wells as stationary geometric reference posts, ensuring perfect long-term positional stability across the entire tracking grid layout.

7A. LAYMANS DOWNSTREAM EFFECTS

This gives our project incredible verification: it completely matches our model for dark matter and gives us the exact coordinates we need to anchor our distributed HERMES network nodes, letting us use the universe's own natural structure to stabilize our long-distance tracking setups. R+G REPORT #005 AETHER RESEARCH GROUP A.R.G. COMPREHENSIVE NODAL TEST SHEET V L 3 S METRIC RELAXATION PROTOCOL. TARGET ANOMALY: SUBSOLAR MASS GRAVITATIONAL ANOMALY (LIG-005)

8. TERRESTRIAL METRIC ANALOG

Primordial high-density nodal seeding operates identically to water freezing rapidly around microscopic dust particles in a supercooled cloud, instantly forming a vast lattice of tiny, invisible ice crystals that provide structural integrity to the entire fluid body without altering its transparency.

8A. LAYMANS TERRESTRIAL ANALOG

Think of a clear glass of water that instantly crystallizes around invisible speckles of dust when you shake it. The water looks completely clear, but it is suddenly full of rigid anchor points. The universe did the exact same thing with primordial black holes right after the Big Bang. PRINCIPAL RESEARCHER: Michael J. Lippa DATE: August 28, 2026

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