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LIGO Scientific Collaboration
Extreme Gravity Working Group
(Attention: Data Analysis Team)

Subject: Proposal for detecting post-merger echoes based on the Temporal Conversion model.

Dear Colleagues,

I am writing to formally propose a targeted search for gravitational wave echoes within the LIGO/Virgo/KAGRA archival data, based on a novel resolution of the Schwarzschild singularity.

Recent theoretical developments within the **Bobreshov Model of Temporal Conservation** suggest that at the Planck scale, spatial geometry undergoes a phase transition into a 1D temporal flow. This process is governed by a new fundamental coupling constant:

$$\mathcal{B} \approx 2.23 \times 10^{23} \text{ s/kg}$$

The model predicts that the "annihilation front" of spatial simplexes creates a semi-reflective boundary for gravitational waves. Unlike standard General Relativity, our framework implies a series of decaying echoes with a characteristic time delay (Δt_{echo}):

$$\Delta t_{echo} \approx \frac{2GM}{c^3} \ln \left(\frac{1}{\epsilon \mathcal{B}^{-1}} \right)$$

This constant \mathcal{B} regularizes the metric, offering a finite, non-singular interior for black holes and providing a physical mechanism for Dark Energy as cumulative "temporal pressure."

I invite your team to collaborate on a cross-correlation analysis of high-confidence merger events (e.g., GW150914, GW190521) to verify these temporal anomalies. The mathematical consistency of this model offers a testable alternative to both standard GR and current quantum gravity candidates.

Attached to this letter is the full preprint with detailed derivations. I look forward to the possibility of discussing these predictions with your working group.

Sincerely,

Dmitriy Bobreshov