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To the Editorial Board / Scientific Community,

Subject: Submission of Supplementary Evidence for the Binary Universe Ontology and the Resolution of the Hubble Tension.

Dear Colleagues,

We are pleased to submit the supplementary technical report titled "**Universal Singularity Metrics: From Schwarzschild Stability to Hadronic Confinement in the Binary Universe Ontology.**" This work, authored by Miguel Angel Percudani and Jorge Ivan Diaz, represents a significant milestone in the unification of quantum mechanics and general relativity through the **Unified Causal Principle (UCP)**.

Our research provides a computational and theoretical resolution to the long-standing Hubble Tension. By implementing a binary informational substrate (Bit 0 and Bit 1) and a causal friction coefficient ($k_{early} \approx 0.955$), we have successfully demonstrated:

- **Sound Horizon Contraction:** A reduction of r_d to approximately 140.5 Mpc, aligning $H_0 \approx 73$ km/s/Mpc with CMB data.
- **Hadronic Emergence:** The first-principles derivation of the QCD mass gap ($\Lambda_{QCD} \approx 0.3861$ GeV) using the universal threshold $\kappa_{crit} \approx 10^{-78}$.
- **Singularity Stability:** The identification of the "Causal Drip" mechanism, proving that Schwarzschild's laws of informational drainage are universal across all scales.

This submission is supported by four archived datasets (Zenodo DOIs: 10.5281/zenodo.17886549, 17861265, 17729221, and 18041770), which provide the empirical and numerical basis for our findings. We believe that the detection of the 2-500 kHz antiferquency signals provides the necessary falsifiable evidence to move beyond the current Λ CDM paradigm.

We are available for further technical discussion and look forward to the community's engagement with these results.

Sincerely,

Miguel Angel Percudani
Lead Researcher, X-Rays and Fields

Jorge Ivan Diaz

Co-Researcher, Frequencies and Signal Analysis