

Abstract Submitted
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Experimental Tachyons GEORGE SOLI, Integrated Detector Systems

— In the physics of potential superluminal information transfer, causality is preserved by the experimental identification of the CMB (Cosmic Microwave Background) rest frame, as the preferred inertial frame in which potential superluminal information transfer is isotropic [Rembielinski] (http://arxiv.org/PS_cache/quant-ph/pdf/0010/0010026v2.pdf). Potential superluminal information transfer is engineered by tunneling through two successive barriers [Olkhovsky] (http://arxiv.org/PS_cache/quant-ph/pdf/0002/0002022v5.pdf). In our experiment we use two meter wavelength photons tunneling through two water-tank barriers, separated by an air-gap length [Soli] (<http://www.siderealdilaton.com/>). The data presented in this talk demonstrates that if the air-gap length is adjusted for subluminal information transfer, then the democracy of inertial frames is recovered, and no preferred frame is measured. The one-way subluminal tunneling group velocity of light is shown to be isotropic to accuracy below the CMB rest frame velocity. It has already been argued in the literature that Einstein's special relativity with tachyons predicts the existence of antimatter [Recami] (http://arxiv.org/PS_cache/arxiv/pdf/0709/0709.2453v1.pdf). We conjecture that the dilaton scalar particle is discovered by any sidereal data producible by this instrument.

George Soli
Integrated Detector Systems

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