Fourth-Dimensional Substrate Framework

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A conceptual framework describing how space, motion, and gravity emerge from fourth-dimensional structure.

Formal_Abstract - V0101

Energy-Line Theory (ELT)

Formal Abstract and Conceptual Extract

Energy-Line Theory (ELT) proposes a foundational framework in which physical reality is instantiated as a sequence of discrete three-dimensional Universe Instances (UIs), generated sequentially by one-dimensional Energy-Lines (ELs) extending within a fourth-dimensional realm. In this model, space, time, motion, and gravity are not fundamental entities, but emergent consequences of geometric and relational constraints governing instantiation.

Energy-Points (EPs) are zero-dimensional instantiation sites within each Universe Instance. They are not particles or objects, but the primitive units by which a three-dimensional spatial state is realized. Apparent motion arises from the displacement of Energy-Points between successive Universe Instances, driven by directional changes in their associated Energy-Lines. No motion occurs within a Universe Instance itself.

Causality in ELT is realized as inter-instance constraint rather than force-mediated interaction within space. Time emerges as an ordering of instantiations, not as an independent dimension. A universal speed limit arises naturally from a forward-biased constraint on Energy-Line directional change, independent of electromagnetic phenomena.

Stabilized coordination among Energy-Lines gives rise to persistent structures perceived as matter, while resistance to changes in relative coordination manifests as inertia. A global Fourth-Dimensional Squeeze (4DSQ), produced by surrounding Energy-Lines in the broader four-dimensional environment, stabilizes large-scale structure and manifests phenomenologically as gravitational attraction via angular occlusion.

ELT does not replace existing physical theories. Classical mechanics, relativity, thermodynamics, and cosmology remain fully valid as predictive descriptions within three-dimensional experience. Energy-Line Theory provides a substrate-level explanation for why

such descriptions are effective, identifying the deeper geometric conditions that produce observed physical law.