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The Unified Spacememory Network: from Cosmogenesis to Consciousness

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ABSTRACT

The recent developments of advanced models of unified physics have brought a deeper understanding of the fundamental nature of space, time, energy and matter. It is becoming apparent that information and geometry are primary to explaining these fundamental agents. In previous work, we demonstrated that the subatomic nucleon structure of the proton and recently the electron can be derived directly from a spacetime holographic structure of Planck-scale quantum vacuum oscillators fluctuating as spacetime pixels, demonstrating that spacetime at the very fine level of the Planck-scale is discrete with information quanta. We have found that when considering the granular spacetime information-energy structure from which we demonstrate matter and mass arises, the phenomena of self-organizing systems that leads to self-awareness and consciousness is integral to—and a natural emergent property of the feedback-dynamics of spacetime information itself. In this work, we describe how the integral function of the information feedback dynamics of spacetime, which engender mass-energy, is the missing element in understanding the evolution and development of self-organizing physical systems in general, and the emergence of the biological organism in particular. We evaluate non-classical quantum mechanical phenomena of physical and biological systems in light of the Maldacena-Susskind holographic correspondence theorem from which an equivalence of wormhole spacetime geometry and quantum entanglement is derived. We suggest that the Planck-scale micro-wormhole entanglement structure of multiple spacetime coordinates engender the macromolecular assemblies of living cells, and that this wormhole-entanglement may function in the memory and learning capacity of the biological entity. Furthermore, the recursive information encoding feedback processes of the quantum spacetime micro-wormhole network, which we refer to as spacememory, enables memory and learning in physical systems across all scales, resulting in universal evolutionary tendencies towards higher levels of ordering and complexity – foundational to evolution, sentience, and awareness.

Key Words: quantum spacetime, consciousness, micro-wormhole, entanglement, macromolecules, Planck scale, fractal, holographic, cosmology, biogenesis

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Introduction

In the 20th century, models of relativity and quantum theory gave the observer a central position within the physical processes of the Universe. The purely mechanical idea of matter and energy interacting like clockwork under the auspices of the unmalleable laws of physics have since evolved into the concept of the dynamical interactivity of systems, represented not only as an exchange of matter and energy, but as well, of information. Not surprisingly, information is

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