

International Conference on

Quantum Mechanics and Applications

July 20-21, 2018 | Atlanta, USA



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The fourfold composite quantum: The emergence of space, time, energy, and gravity, and some implications

Through the construction of a multi-layered, symmetrical, mathematical model this article explores quanta as an emergent phenomenon resulting from the slow-down of the speed of light from a native state of infinite speed to c . As a result of this slow-down, properties implicit to light in its native state 'accumulate' as quanta as it were, in order to allow such implicitness to express itself in a state of material diversity. The article proposes a mathematical process by which light at its native state symmetrically transforms to become light at c . In the process, implicit properties diversify to sets of related properties, whose elements combine in various ways to practically become an infinite set of unique seeds. The article suggests that space, time, gravity, and energy are themselves emergent and dependent on light. In fact, space is suggested as being the field in which unique seeds exist, time as the experience related to the maturity of the unique seeds, gravity as the inter-relation between the seeds, and energy as the process by which seeds materialize. The article suggests a composite fourfold quantum and applies the proposed space-time-gravity-energy quantum to a series of possible circumstances. The first four are more "normal" circumstance: At the atomic-particle level, at the unit-space level, at the level of a Big Planet, and in an Expanding Universe. The remaining circumstances are related more to the Theory of Relativity: As a particle approaches the speed of light, at a Black Hole level, and when a Cosmic Bounce occurs.

Biography

Pravir Malik has a PhD in Technology Management with a focus on Mathematics of Innovation in Complex Systems from University of Pretoria, an MBA from J.L. Kellogg Graduate School of Management with a focus on Marketing and Organizational Behavior, an MS in Computer Science from University of Florida with a focus on AI, and a BSE in Computer Engineering from Case Western Reserve University. Pravir's current focus is on developing a unified theory and mathematics of organization with applications in a range of complex adaptive systems. He is the Head of Organizational Sciences at Zappos.com, and in this capacity is leading the development of the math, science, and engineering related to organizational learning, organizational ecology, organizational behavior, organizational psychology, organizational culture, and organizational theory. He is the author of a series of books on fractals and organizations, including 'Redesigning the Stock Market' and 'The Fractal Organization', published by SAGE, a leading global academic publisher. He recently authored a six-book series on 'Cosmology of Light' inspired by his research in CAS and is now writing a follow-up series on the implications of "one mathematics" in all things with applications for AI, Quantum Computing, and Transhumanism. He has held faculty positions at several institutions of higher learning.

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