

Physics

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Third horizon of unified physics - Electromagnetism, general relativity and gravitation

In the spacetime, arising from the second horizon of Macro Densities, electricity and magnetism, represents a duality of manifestations of the indivisible phenomenon of virtual and physical duality. Under the Continuity of Physical Density, the dynamics of electric fields has as its opponent of virtual time dynamics of magnetic fields. Meanwhile, its twin rising from dynamics under Continuity of Virtual Density (or traditionally named as the curvature of spacetime) represents gravitational fields as a natural phenomenon of space-time duality. As a consequence, together, electromagnetic and gravitational fields form and give rise to a macroscopically coherent fabric of our natural fields, exhibited throughout all physical existence: The third Horizon of Unified Fields. In addition, the General Relativity is demonstrated as a part of the generalized derivation of the gravitational fields.

Biography

Chong Wei Xu, a Chief Architect at Verizon Communications USA, focuses on dialectical nature of philosophy and sciences is to uncover topological framework of the universe, to develop a full intrinsic structure of the entire elementary particles, to derive the duality principles of spacetime manifolds, to present the unified physics under a horizon topology, and to heuristically demonstrate the origin of physical states. Since 2013, he has demonstrated the enlightenments of groundbreaking theories in Particle Physics and Unified Physics. He holds the BS and first MS degrees in Physics from Ocean University of China and Tongji University, and the second MS degree in Electrical and Computer Engineering from University of Massachusetts.

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