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Causal Particle Theory

Causal particle theory requires that a particle's time coordinate be uninvolved with its representative non-commutative matrix algebra. A non-commutative representation algebra has been constructed which both underlies the standard model algebraic group and preserves particle causality. It was proposed that such an algebra be considered –long before the causality criterion was known. As in the Langland paradigm, the hypothesized algebraic group is a one-to-one+onto representation of a partitioned quantum geometry, and is consistent with triangulated quantum gravity. The quantum particle geometry is also referred to as a fractionalized string when considering to black hole theory. Causal particle theory involves particle mass and energy in the form of real and imaginary terms of a partitioned 1-brane's action. In the No-Boundary Wave Function approximation using a sum of extremizing histories, brane action takes the exact same form! –but lacks an algebraic representation of quantum particle states. This exciting equivalence relation calls for significantly expanded research and communication support. Most notably, research directed at understanding string/M-theory's six extra variables must re-consider them as metrics of the six intrinsic degrees of freedom in tripartite brane geometry. This well-formulated approach is made consistent with the empirical formulation approach taken by the New Minimal Standard Model. Currently unexplained particle, astrophysical and cosmological phenomena are inevitable, but still qualitative, predictions of the underlying theory.

Summary

This work revises and expands on earlier DPF02, Cosmo02, PASCOS06, SSLLIS07 presentions by incorporating developments from the New Boundary Wave Function, the New Minimal Standard Model, quantum gravity, among others.

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