

Abstract Submitted
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Matter Described by Fractional Dimension Interactions

CHARLES CHASE, LAURENCE BLOXHAM, CBH Technologies, 4727 Wilshire Blvd, Los Angeles, Ca 90010, JAMES GIMZEWSKI, Department of Chemistry and Biochemistry, 607 Charles E Young Dr, UCLA, Los Angeles, Ca 90095, MAKOS KARAGEORGIS, Department of Physics, University of North Texas, Denton, Tx 76203 — We propose an alternate unified theory of matter, space, and time that is based upon the propagation, interaction, and dynamic equilibrium of a difference between systems that evolves at a fractional rate, generating a fractal space and time. A simplified fractional Lagrangian evolution operator is used to develop dynamically bound correlated systems of changing differences. We develop a master equation whose solutions describe the interaction and rate of change of correlated difference systems in terms of the fundamental units of momentum and a waiting interval as they change through correlated time intervals. Degrees of symmetry freedom occur from consideration of the number of difference systems interacting in a bound, correlated dynamic equilibrium. We apply the theory to gravitational and inertial force through variations in the waiting interval.

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