Abstract Submitted
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Theoretical Gravity: Graviton Dynamics

GEORGE SCHUHMANN\textsuperscript{1}, Univ of Louisville — This analysis explores gravitons from a particle perspective and examines how relativistic particle dynamics applied to gravitons can be seen to reproduce the observed effects of gravity. Individual gravitons are seen as massless quanta (like photons) that have energy in the form of momentum in accord with Special Relativity’s $E = pc$. A hypothetical field of gravitons is posited as a dynamic relativistic gas interacting with massive particles. Cosmological implications are presented, and an idealized experiment to detect individual graviton interactions is proposed.

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