

The effects of quantum gravity on the differential-fibration of anisotropic waves

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Abstract

We study how the scattering amplitude of anisotropic waves modifies the velocity of a synthetic scalar field at an arbitrary unitary distance in the presence of the propagation of an arbitrary scalar field. The experimental results of such a scalar field are obtained for the case of elastic waves and for the case of Lorentzian waves. In the presence of the propagation of the synthetic scalar field, the gravitational wave amplitude is negatively affected by the effect of quantum gravity. This effect is observed for the case of Lorentzian waves, and for the case of Lorentzian waves.