



Contribution ID: 19

Type: Poster

Three different effects of the same quantum nature

In the model of low-energy quantum gravity by the author the cosmological redshift and additional dimming of remote objects may be interpreted as results of scattering of photons on gravitons of the background. A tentative detection of a diffuse cosmic optical background by the New Horizons mission may be connected with non-forehead collisions of photons with gravitons, too. The conjecture about the local quantum-gravitational nature of the redshift may be verified in a ground-based laser experiment partly using advanced LIGO technologies.

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Session Classification: T02: Cosmology

Track Classification: Cosmology