

Phenomenology of quantum gravity

Wednesday, September 6, 2023 2:30 PM (30 minutes)

In this talk, I will present an overview of the latest progress in the field of quantum gravity phenomenology, focussing on some of the most relevant features of models where the Planck scale governs deformations of relativistic symmetries and illustrating opportunities for experimental tests. These include astrophysical observations, sensitive to residual signatures at low energies, cosmological observations about primordial perturbations, which are directly influenced by Planck-scale physics, and tests using quantum systems which might be sensitive to Planck-scale decoherence.

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