Contribution ID: **70** Type: **Poster**

Quantum Gravitational Signatures in Neutrino Oscillations

Thursday, 25 September 2025 16:15 (1 minute)

Neutrinos undergoing stochastic perturbations as they propagate may experience decoherence which leads to a damping in the neutrino oscillation probability over distance. Such perturbations may result from quantum gravitational effects such as neutrino-virtual black hole interaction scenarios. My project is about investigating the resulting signals in DUNE and T2K and test the sensitivity of future measurements.

Presenter: BATHE-PETERS, Lars (University of Oxford)

Session Classification: Poster flash