



Contribution ID: 1558

Type: **Oral Presentation**

DUNE sensitivities to New Physics affecting neutrino propagation (15' + 3')

Saturday, 6 August 2016 17:25 (18 minutes)

The Deep Underground Neutrino Experiment (DUNE) will observe neutrinos traveling through 1300 km of Earth matter. Its long baseline, high neutrino energies and low systematic errors make it an ideal setup to test for effects coming from New Physics affecting neutrinos in propagation through matter. In this talk I will present the expected sensitivities to effective operators giving non-standard neutral current neutrino interactions. I will also pay special attention to potentially harmful degeneracies between standard and non-standard oscillation parameters.

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Session Classification: Neutrino Physics

Track Classification: Neutrino Physics