

Snowmass Joint Workshop on New Physics Opportunities with Neutrino  
Experiments: Theoretical & Experimental Perspectives

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## Decays of New-Physics Particles at the DUNE Near Detector(s)

*Friday 11 February 2022 13:00 (15 minutes)*

The upcoming Deep Underground Neutrino Experiment (DUNE) and its near detector complex will allow for many searches for new physics. Among these include the possibility that light (MeV - GeV) particles can be produced in/near the DUNE target and decay inside the near detector, producing a striking signature. In this talk, I will demonstrate the many different types of well-motivated new physics that DUNE has the potential of discovering in several years of data collection.

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**Session Classification:** Parallel Session 1: Accelerators/Short Baselines