

## Searching for New Physics with Neutrino Experiments

*Wednesday 16 November 2022 15:35 (30 minutes)*

In this talk, we discuss the unique potential of neutrino experiments to probe a wide range of low-energy new physics models. We review some of the main ways dark sectors have already been studied at neutrino experiments and how we can further probe new physics with next-generation experiments. As a case study, we consider the example of HNLs endowed with hidden sector interactions and how such models can already be constrained by MicroBooNE's recent search for single photons from NC  $\Delta(1232)$  radiative decays.

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**Session Classification:** Session III