

Baryon Number Violation Searches Using the DUNE Far Detector

Friday, 21 June 2024 17:30 (2 hours)

The DUNE experiment will have a rich set of physics topics, including neutrino oscillation and Beyond Standard Model (BSM) physics. Of great importance to the latter of these goals is baryon number violation (BNV), especially including proton decay (PDK), neutron-antineutron transformations, and dinucleon decay. All suffer from atmospheric neutrino backgrounds, which at times mimic these rare events' unique topologies. In this poster, we will review recent results in this vein using the DUNE Far Detector, and look forward to some upcoming analyses.

Poster prize

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