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Theory of Dark Matter

Wednesday, May 15, 2024 10:30 AM (30 minutes)

Neutrino experiments will have leading sensitivity to several dark matter and dark sector models. I discuss signals from a range of different dark sector models, from induced nucleon decay in mesogenesis models to production, scattering, and decay of dark sector states in neutrino beams. I present simulation tools for boosted dark matter and induced nucleon decay signals. I discuss some challenges with developing simulation and analyses to achieve a comprehensive program at the SBN and DUNE experiments.

Primary author: BERGER, Joshua (Colorado State University)

Presenter: BERGER, Joshua (Colorado State University)

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