



MEETING OF THE AMERICAN PHYSICAL SOCIETY DIVISION OF PARTICLES AND FIELDS

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Dark matter collider at DUNE: relativistic scattering of boosted dark matter

Monday, 31 July 2017 10:45 (15 minutes)

I will talk about a novel dark matter (DM) detection strategy for the models with non-minimal dark sector such as “inelastic boosted DM”, which expects a secondary cascade signature after an inelastic and relativistic scattering of a light dark matter component. I will discuss the detection prospects at DUNE. The boosted DM can be produced both in the current universe and in the fixed target.

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