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Coherent elastic neutrino-nucleus scattering with the NuMI beamline and the ν BDX-DRIFT detector

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ν BDX-DRIFT is a directional low-pressure TPC detector suitable for measurements of coherent elastic neutrino-nucleus scattering ($\text{CE}\nu\text{NS}$) using a variety of gaseous target materials which include carbon disulfide, carbon tetrafluoride and tetraethyllead. In this talk, I will briefly discuss various aspects of the physics opportunities that measurements using the NuMI beamline offer. Special attention will be given to SM parameters measurements and searches for new physics, including light DM.

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