

## Physics Opportunities in the Near DUNE Detector hall: PONDD



Contribution ID: 45

Type: **not specified**

## Search for Inelastic Boosted Dark Matter in DUNE Far Detector

*Tuesday, 4 December 2018 12:00 (30 minutes)*

In this talk, I will discuss on the search for inelastic boosted dark matter (iBDM) in DUNE. In such a class of model, a light DM which is boosted enough to pass the energy threshold can come from dense dark matter region in the universe, such as the galactic center, the sun, dwarf spheroidal galaxies, showing unique signal features easily separable from potential backgrounds. I will talk about the detection prospects of iBDM in DUNE and show its unique coverage of parameter space, compared to other reference experiments.

**Presenter:** Dr SHIN, Seodong (University of Chicago / Yonsei University)

**Session Classification:** Light Dark Matter I