

## Search for sub-GeV Dark Matter @DUNE

*Tuesday, 9 June 2015 09:00 (15 minutes)*

High Intensity fixed target neutrino experiments present a new opportunity to search for sub-GeV Dark Matter. Our idea is to search for sub-GeV dark matter at DUNE near detector or a dedicated Dark Matter detector. Neutrinos are the major background for the Dark Matter experiment. Dark matter-nucleon or DM-electron scattering signal looks like neutrino neutral current scattering signal. In this talk, I will mainly discuss about the DM production and how one can distinguish the two signal.

### Is this an abstract for a New Perspectives presentation?

yes

### Is this an abstract for a Users Meeting Poster?

no

**Primary author:** CHATTERJEE, Animesh (Postdoctoral fellow, University of Texas at Arlington)

**Presenter:** CHATTERJEE, Animesh (Postdoctoral fellow, University of Texas at Arlington)

**Session Classification:** Session 5 - Astrophysics and the Dark Sector