



Laboratory for Elementary Particle
Physics (LEPP)

Theory Seminar

Direct Detection with Neutrino Detectors and Self Destructing Dark Matter



I will discuss scenarios in which large neutrino detectors can probe dark matter. Overcoming the high energy thresholds of these detectors requires a non minimal dark sector such as Luminous DM or Self-Destructing DM. In these models a DM scattering in the earth triggers a change in the properties of dark matter and making it detectable. Models that exhibit this phenomenology are inspired by SM dynamics as well as by the MSSM.

Roni Harnik

Fermilab

Wednesday October 4th, 2017

2:00pm

401 Physical Sciences Building