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TALK: Neutrino and light dark matter physics with directional detectors

Wednesday, July 10, 2024 3:00 PM (45 minutes)

Author: Diego Aristizabal

In this talk I will review a few aspects of Coherent Elastic neutrino-Nucleus Scattering (CEvNS) and light dark matter (LDM) production in meson decays. In particular, I will focus on potential measurements using neutrino beams at FNAL. I will show that, combined with directional detectors, these beams offer an avenue for CEvNS measurements as well as for LDM detection. Such measurements will provide complementary information to that coming from other CEvNS facilities as well as from other non-directional detectors looking for LDM.

Presenter: ARISTIZABAL, Diego (USM)