

Neutrino non-standard interactions and dark matter direct searches

Saturday, 30 June 2018 15:30 (30 minutes)

In this talk I will discuss the role that neutrino-quark non-standard interactions (NSI) might play in dark matter searches with multi-ton scale detectors. I will show that constraints from neutrino oscillations and COHERENT data still allow for sufficiently large NSI couplings, therefore if present they can either enhance or diminish the irreducible neutrino background present in this type of experimental setups. The results include both solar and atmospheric neutrino fluxes.

Primary author: Dr ARISTIZABAL, Diego (USM)

Presenter: Dr ARISTIZABAL, Diego (USM)

Session Classification: Parallel Session 2-3