

Exploring generalized neutrino interactions at the COHERENT

Thursday 9 September 2021 14:20 (18 minutes)

In this talk, we will discuss the potential to prove “generalized neutrino interactions”, exotic new physics interactions beyond the Standard Model, in the coherent-elastic neutrino-nucleus scattering (CE ν NS) experiments in light of the latest COHERENT- CsI, and LAr data. We will discuss that how CE ν ES processes could constrain these exotic new physics effective couplings, and the related phenomenology. Finally, a model realization will be presented that can lead to such exotic couplings.

Working group

WG2

Primary author: Dr NATH, Newton (Instituto de Fisica, National Autonomous University of Mexico)

Co-authors: Dr FLORES, Luis J. (Instituto de Fisica, National Autonomous University of Mexico); Dr PEINADO, Eduardo (Instituto de Fisica, National Autonomous University of Mexico)

Presenter: Dr NATH, Newton (Instituto de Fisica, National Autonomous University of Mexico)

Session Classification: WG 2