

Prospects of Neutrino Physics



Contribution ID: 42

Type: **not specified**

Neutrino Trident Production

Friday, 12 April 2019 13:30 (30 minutes)

Rare scattering processes at neutrino experiments can serve as an ideal tool for the search of new physics. In this context, I will present the sensitivity of the DUNE near detector to leptophilic Z' models, using neutrino-electron and neutrino trident scattering. I will then discuss how more exotic models, such as recent proposals of “dark” neutrinos, can also lead to such signatures and argue how these can be searched for.

Presenter: HOSTERT, Matheus (IPPP, Durham U.)

Session Classification: Prospects of Neutrino Physics