Contribution ID: **8** Type: **not specified**

DM EFT with Spin One Mediators

Wednesday 9 June 2021 14:40 (20 minutes)

We analyze interactions between dark matter and standard model particles with spin one mediators in an effective field theory framework. In this paper, we are considering dark particles masses in the range from a few MeV to the mass of the Z boson. We use bounds from different experiments: Z invisible decay width, relic density, direct detection experiments, and indirect detection limits from the search of gamma ray emissions and positron fluxes. We obtain solutions corresponding to operators with antisymmetric tensor mediators that fulfill all those requirements within our approach.

Authors: FORTUNA, Fabiola (Cinvestav); Dr ROIG GARCÉS, Pablo; Dr WUDKA, José

Presenter: FORTUNA, Fabiola (Cinvestav)

Session Classification: MOCa