



Contribution ID: 36

Type: **not specified**

New Physics in Meson Decays at Beam Dump and Stopped Pion Facilities

Saturday 22 October 2022 16:25 (20 minutes)

We explain the MiniBooNE low energy excess utilizing three body decays of charged mesons into a lepton, neutrino, and a dark bosonic state, in conjunction with Primakoff-like photoconversion of such states in order to explain the angular spectrum. Thus, dark-sector interpretations can be reinstated as plausible solutions to the excess. We explore a new space of EFTs that fit into this general phenomenological framework and show how complimentary searches can be performed at stopped-pion experiments. We present some preliminary studies on the capabilities of the CCM experiment in this light.

Author: THOMPSON, Adrian Raphael

Presenter: THOMPSON, Adrian Raphael

Session Classification: Session 4