Contribution ID: 18 Type: not specified

## Heavy Neutral Leptons as a Portal to the Dark Sector

Wednesday, 23 September 2020 14:10 (10 minutes)

The connection between the Standard Model and a dark sector may take place in a variety of way, most generically through portal couplings. In this talk, I discuss an example where exploiting the neutrino portal as a stepping stone to the dark sector opens up a set of unexplored experimental signatures at neutrino,  $e^+e^-$  colliders, and kaon experiments. I will focus on models with a new local  $U(1)^\prime$  symmetry, with applications to the MiniBooNE anomaly and the muon g-2.

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Session Classification: Contributed 12