



Contribution ID: 264

Type: **Parallel Flash talk**

A Dark Seesaw at Low Energy Experiments

Tuesday, 23 February 2021 12:15 (5 minutes)

We introduce a renormalizable and anomaly-free $U(1)'$ gauge extension of the standard model, and show that it can provide a consistent explanation of a number of prominent low energy anomalies. We show that the simultaneous presence of all portal connections between a neutral dark sector and the SM lead to unique phenomenological signatures at experiment. We further discuss these signatures and the ongoing effort to search for these classes of models, in particular, as a solution to the MiniBooNE low energy excess.

Collaboration name

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Session Classification: Non Standard Interactions

Track Classification: Neutrino Theory and Cosmology