Contribution ID: 183

Type: Parallel talk

Leptogenesis and Muon (g-2) from vector like fermion triplet.

Tuesday 15 October 2024 17:15 (15 minutes)

We propose extension of minimal Scotogenic model with discrete Z_4 symmetry. The model is extended with a fermion triplet and a scalar singlet. The Yukawa coupling of triplet fermion with inert doublet gives positive contribution to muon's anomalous magnetic moment. The decay of fermion triplet also generates net lepton asymmetry only in muonic sector due to Z_4 charges. Involvement of the Yukawa coupling both in Leptogenesis and in the anomalous magnetic moment of the muon results in a strong correlation between Leptogenesis and the recent Fermilab's result.

Track type

Neutrino Physics

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Session Classification: Parallel - Neutrino