



Contribution ID: 113

Type: **not specified**

Lepton Flavor Violating Decays of Neutral Higgses in Extended Mirror Fermion Model

Tuesday 12 July 2016 13:45 (20 minutes)

We perform the one-loop induced charged lepton flavor violating decays of the neutral Higgses in an extended mirror fermion model with non-sterile electroweak-scale right-handed neutrinos and a horizontal A_4 symmetry in the lepton sector. We demonstrate that for the 125 GeV scalar h there is tension between the recent LHC result $B(h \rightarrow \tau\mu) \sim 1\%$ and the stringent limits on the rare processes $\mu \rightarrow e\gamma$ and $\tau \rightarrow (\mu \text{ or } e)\gamma$ from low energy experiments.

Summary

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Session Classification: Parallel II

Track Classification: Physics at Colliders