



Contribution ID: 108

Type: **not specified**

Lepton Flavor Violating Radiative Decays in EW-Scale ν_R Model: An Update

Tuesday, 12 July 2016 15:15 (20 minutes)

We perform an updated analysis for the one-loop induced lepton flavor violating radiative decays $l_i \rightarrow l_j \gamma$ in an extended mirror model. Mixing effects of the neutrinos and charged leptons constructed with a horizontal A_4 symmetry are also taken into account. Current experimental limit and projected sensitivity on the branching ratio of $\mu \rightarrow e \gamma$ are used to constrain the parameter space of the model. Calculations of two related observables, the electric and magnetic dipole moments of the leptons, are included. Implications concerning the possible detection of mirror leptons at the LHC and the ILC are also discussed.

Summary

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Session Classification: Parallel IV

Track Classification: Precision Experiments and "Lowenergy" Probes of Physics Beyond the Standard Model