Contribution ID: **6**   Type: **Talk**

Effective Lagrangians for Lepton Flavor Violating interactions involving a boson

Monday, 2 December 2019 12:10 (20 minutes)

We have developed the most general effective field theory describing LFV involving an additional boson (χ) up to dimension four terms. The effective couplings are constrained using current upper limits on the branching fractions of the $L \to \ell\chi$ and L to 3ℓ decays. Within this setting, we examine the consequences on the electron and muon anomalous magnetic moments and on Higgs boson decays. We provide experimental signatures able to distinguish the spin and parity of the χ boson.

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