

Charged Lepton Flavor Violation / Lepton Number Violation searches at LHCb

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A review is made of Lepton Flavor Violation and Lepton Number Violation results from the LHCb experiment in pp collisions at center-of-mass energy of 7 TeV and 8 TeV at the LHC, including latest results on $D^0 \rightarrow e^+\mu^-$, $\tau^+ \rightarrow \mu^+\mu^-\mu^+$, and $B \rightarrow e^+\mu^-$ decays, and updated discussion of GeV-scale Majorana neutrinos from B and D decays. A new search is presented for Higgs-like boson decays into two long-lived neutralinos, with lepton number violation in neutralino decay, in the framework of RPV in mSUGRA. The searched mass region covers the SM Higgs boson.

Primary author: Prof. ADEVA, Bernardo (University of Santiago de Compostela)

Presenter: Prof. ADEVA, Bernardo (University of Santiago de Compostela)

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