

Charged Lepton Flavour Violation/Lepton Number Violation searches and studies with the CMS experiment.

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The standard model of particle physics explicitly conserves lepton flavour in particle interactions in spite of the absence of an underlying symmetry. The observation of neutrino oscillation proves neutral lepton flavour violation (LFV) and thus motivates a search for violations in charged lepton interactions. Models like R-parity violating SUSY or quantum black holes could result in final states with two charged leptons of different flavour. As the standard model background for such final states is small, physics beyond the standard model could result in striking signatures. Here, searches for charged LFV performed by the CMS collaboration at intermediate and high masses with data at a center of mass energy of 13 TeV are presented.

Primary author: Mr ERDWEG, Sören (RWTH Aachen University)

Presenter: Mr ERDWEG, Sören (RWTH Aachen University)

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