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Search for Lepton Flavor Violation in di-lepton channel at ATLAS

A search is performed for a heavy particle decaying into different flavour dilepton pairs (e-mu, e-tau or mu-tau), using 3.2 fb⁻¹ ATLAS data at 13 TeV collected in 2015. No excess is observed over the Standard Model prediction. Limits at the 95% C.L. are set on the mass of a Z' boson with lepton-flavour-violating couplings at 3.0, 2.7 and 2.6 TeV, and on the mass of a supersymmetric tau sneutrino with R-parity-violating couplings at 2.3, 2.2 and 1.9 TeV, for e-mu, e-tau and mu-tau final states, respectively. The results are also interpreted as limits on the threshold mass for quantum black hole production.

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