

Search for Heavy Majorana Neutrinos in the Events with Same-Sign Lepton Pairs and Jets Using the CMS Detector in pp Collisions at $\sqrt{s} = 13$ TeV

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We present searches on Heavy Majorana neutrinos in the events with same-sign lepton pairs and jets, using the pp collision data collected from CMS detector at the centre-of-mass energy 13 TeV. The search range is extended to 20 GeV and 1500 GeV, lower and upper bound respectively, compared to the previous analysis using 8 TeV data. Vector boson fusion production channel is considered as well as s-channel, which improves the sensitivities for mass above several hundreds of GeV. We set upper limits on muon mixing squared, electron mixing squared, and muon-electron cross mixing.

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