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Search for heavy neutrinos and extra gauge bosons at the CMS

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Since the discovery of neutrino oscillations due to their nonzero masses, these particles have been in the spotlight in the context of physics beyond the Standard Model. The left-right symmetric extension of the Standard Model can provide answers to many unsolved questions of the universe including parity violation of weak charged current, mass generation mechanism of neutrinos and their small values compared to other fermions, and matter/anti-matter asymmetry. We present the recent results of searches for left-right symmetric model through right-handed W and Z' production channels from CMS using the full Run-II dataset of pp collisions at a center-of-mass energy of 13TeV. The searches utilize the various kinematic features and final state objects from the target process, exploiting the full physics potential of the searches using boosted objects.

In-person participation

Yes

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