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Heavy neutrino searches at ATLAS and CMS

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Multiple theories beyond the Standard Model predict the existence of heavy neutrinos in order to explain the light neutrino masses, such as the Type I seesaw mechanism, which introduces new heavy neutrino states without additional vector bosons, or the Type III seesaw mechanism which introduces additional heavy lepton triplets. Left-right symmetric models, which restore parity symmetry in weak interactions at a higher energy scale, also predict heavy neutrinos, along with right-handed counterparts to the weak gauge bosons. Searches for such heavy Majorana or Dirac neutrinos with the ATLAS and CMS detectors will be presented using proton-proton data from the LHC at a center-of-mass energy of 13 TeV.

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