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Search for heavy neutrinos with the ATLAS detector

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Multiple theories beyond the Standard Model predict the existence of heavy neutrinos, such as the Type I or Type III seesaw mechanisms which can explain the light neutrino masses, or left-right symmetric models which restore parity symmetry in weak interactions at higher energy scale and predict right-handed counterparts to the weak gauge bosons. Searches for such heavy Majorana or Dirac neutrinos with the ATLAS detector, which can also lead to boosted or also displaced signatures, will be presented using proton-proton data from the LHC at a center-of-mass energy of 13 TeV.

Working Group

WG5 : Neutrinos Beyond PMNS

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