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Search for resonant WZ→lvl'l' Production in Proton-Proton Collisions at $\sqrt{s}$ = 13TeV with the ATLAS Detector (student talk)

Saturday, 17 February 2018 10:00 (15 minutes)

After the discovery of the Higgs boson at the LHC, it is important to test whether the Standard Model could be only an effective theory, and whether the Higgs sector could be extended to include theories with higher isospin multiplicity. This talk reports on a search for charged resonances produced by vector boson fusion and decaying via WZ→lvl'l', based on proton-proton collision data collected by the ATLAS experiment at the Large Hadron Collider at a centre-of-mass energy of 13 TeV and corresponding to an integrated luminosity of 36 fb^{-1}. Two kinds of resonances, either a heavy vector particle or a singly-charged Higgs of the Georgi-Machacek (GM) are tested.

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