



Contribution ID: 292

Type: Parallel talk

ATLAS Searches for Resonances Decaying to Boson Pairs

Thursday, July 11, 2019 5:45 PM (15 minutes)

Many extensions to the Standard Model predicts new particles decaying into two bosons (W, Z, photon, or Higgs bosons) making these important signatures in the search for new physics. Searches for such diboson resonances have been performed in final states with different numbers of leptons, photons and jets and b-jets where new jet substructure techniques to disentangle the hadronic decay products in highly boosted configuration are being used. This talk summarizes recent ATLAS searches with LHC Run 2 data collected.

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Session Classification: Searches for New Physics

Track Classification: Searches for New Physics