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ATLAS Searches for Resonances Decaying to Boson Pairs

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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 resonant diboson resonances (including HH) have been performed in final states with different numbers of leptons, photons, 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 up to 140fb-1 of 13 TeV LHC Run 2 data.

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