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ATLAS Searches for Resonances Decaying to Boson Pairs (VV, VH and HH)

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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 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 for diboson resonances in VV, VH and HH final states with the full Run2 LHC data.

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