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ATLAS Searches for Diboson Resonances

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Many extensions to the Standard Model, such as an extended Higgs sector, predict new particles decaying into two bosons (W, Z, gamma, H) 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. The most recent results in the search for such resonances by the ATLAS experiment at the LHC will be presented focusing on semi-leptonic and fully hadronic decay channels, using proton-proton collision data collected at a centre-of-mass energy of 13 TeV.

Parallel Session

Alternatives to Supersymmetry

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