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Search for new resonances involving a photon, Higgs, W or Z boson in pp collisions at 13 TeV at ATLAS (15' + 5')

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Many extensions to the Standard Model predicts new particles decaying into two massive vector bosons (WW, WZ, ZZ making this a smoking gun signature. Searches for such diboson resonances have been performed in final states with different numbers of leptons and jets where new jet substructure techniques to disentangle the hadronic decay products in highly boosted configuration are being used. This talk summarizes ATLAS searches for diboson resonances with LHC Run 2 data.

Presenter: KONSTANTINIDIS, Nikos (University College London (UK))

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