



Contribution ID: 231

Type: **Parallel Talk**

## ATLAS Searches for $VV/V+\gamma$ Resonances

*Saturday, 8 July 2017 10:15 (30 minutes)*

Many extensions to the Standard Model predicts new particles decaying into two bosons ( $WW$ ,  $WZ$ ,  $ZZ$ ,  $Z\gamma$ ) 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 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 collected in 2015 and 2016.

### Experimental Collaboration

ATLAS

**Primary author:** ROZEN, Yoram (Technion (IL))**Presenter:** IORDANIDOU, Kalliopi (Columbia University (US))**Session Classification:** Higgs and new physics**Track Classification:** Higgs and New Physics