



Contribution ID: 377

Type: **Poster Presentation**

Search for resonances with boson-tagged jets in pp collisions at $\sqrt{s} = 13$ TeV collected with the ATLAS detector

Narrow resonances decaying into WW , WZ or ZZ boson pairs are searched for in 37.1 fb^{-1} of proton-proton data at a centre-of-mass energy of $\sqrt{s} = 13 \text{ TeV}$ recorded with the ATLAS detector at the Large Hadron Collider in 2015 and 2016. The diboson system is reconstructed using pairs of high- p_T large radius jets tagged as compatible with the boosted hadronic decay of a W or a Z boson, using jet mass and substructure properties. The search covers diboson resonances with masses in the range $1.1 \leq m_{VV} \leq 4.0 \text{ TeV}$. Exclusion limits are set at the 95% confidence level on the production cross section times branching ratio to VV on a range of beyond the Standard Model theories.

Experimental Collaboration

ATLAS

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