

Complementarity of ATLAS Searches for s-channel Resonance Production in Bosonic and Leptonic Final States

Friday, July 6, 2018 10:00 AM (15 minutes)

Many theories beyond the Standard Model predict new s-channel resonances decaying into two bosons (WW,ZZ,WZ,WH,ZH) and possibly leptons (ll , $l\nu$), such as a new heavy scalar singlet, a new heavy vector-boson triplet, or a heavy spin-2 graviton in the bulk Randall-Sundrum model. This talk will summarize relevant ATLAS searches at the LHC using proton-proton collision data collected at a centre-of-mass energy of 13 TeV and show their complementarity.

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Session Classification: Beyond the Standard Model

Track Classification: Beyond the Standard Model