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Searches for heavy resonances decaying to top quarks with the ATLAS detector at LHC

A search for new resonances that decay into top-quark pairs is performed using data collected from proton–proton collisions at a centre-of-mass energy of 13 TeV by the ATLAS detector at the Large Hadron Collider. Events consistent with top-quark pair production are selected by requiring a single isolated charged lepton, missing transverse momentum and jet activity compatible with a hadronic top-quark decay. The invariant mass spectrum of hypothetical resonances is examined for local excesses or deficits that are inconsistent with the Standard Model prediction. No significant deviation from the prediction is found so far.

Primary Category

Particle Physics

Secondary Category

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