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ATLAS ttbar resonance searches

An overview is given of the ATLAS searches for new massive states decaying to top quark pairs. The combination of classical, resolved selection and reconstruction of the top quark pair with an algorithm designed specifically for boosted top quarks yields good acceptance for a broad range of resonance masses. A new result is presented from an analysis of 20/fb of proton-proton collisions collected during the 2012 run of the LHC, at a center-of-mass energy of 8 TeV. Limits are set on the production cross-section times branching of several resonance models.

Summary

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