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Search for ttbar Resonances in the Lepton plus Jets Channel in pp Collisions at Sqrt(s)=7 TeV using the ATLAS Detector

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Several Beyond the Standard Model (BSM) theories predict the existence of new resonances that decay into ttbar pairs. We describe a search for such resonances using lepton plus jet data collected by the ATLAS experiment in pp collisions at Sqrt(s)=7 TeV. The selection criteria and search method are presented. In the absence of signal, we produce 95% CL limits on the production cross section times branching ratio of resonances predicted by a few such BSM models.

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