

Abstract Submitted
for the 4CF11 Meeting of
The American Physical Society

**Searching for Top Quark Pair Resonances using Boosted Top Jets
in the Lepton Plus Jets Channel using pp Collisions at $\sqrt{s} = 7$ TeV
with ATLAS**

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We present results from a search for $t\bar{t}$ pair resonances using boosted top quark pairs produced by the ATLAS experiment in pp collisions at $\sqrt{s} = 7$ TeV. Selection criteria and $t\bar{t}$ pair reconstruction using boosted top decays are described. We present the observed and expected numbers of Standard Model processes and compare basic kinematic distributions. Prospects for production limits of leptophobic topcolor Z' and Randall-Sundrum Kaluza-Klein gluons are given.

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Date submitted: 20 Sep 2011

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