Searching for $t\bar{t}$ Resonances in the Lepton plus Jets Channel using $pp$ Collisions at $\sqrt{s} = 7$ TeV with ATLAS

FIONNBARR O’GRADY, University of Arizona, ATLAS COLLABORATION — We present results from a search for $t\bar{t}$ pair resonances in the lepton plus jets final state using data from the ATLAS experiment in $pp$ collisions at $\sqrt{s} = 7$ TeV. This search makes use of b-tagging in order to reduce the $W$ plus jet background and a kinematic fitter to improve the $t\bar{t}$ mass resolution. Prospects for limits of leptophobic topcolor $Z'$ and Randall-Sundrum Kaluza-Klein gluons are given.