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A search for $t\bar{t}$ resonances in the di-lepton channel with the ATLAS detector in 2.05/fb of pp collisions at $\sqrt{s} = 7$ TeV

Monday 4 June 2012 16:00 (1 hour)

A search for top quark pair $t\bar{t}$ resonances in final states where both W bosons from the top quark decay into either an electron and electron-neutrino or a muon and muon-neutrino (dilepton final state) has been performed. The data were recorded by the ATLAS experiment at the CERN Large Hadron Collider. The search uses a data sample corresponding to an integrated luminosity of 2.05 fb⁻¹, which was recorded in 2011 at a proton-proton centre-of-mass energy of 7 TeV. No evidence for a resonance is found. Upper limits at the 95% Confidence Limit (C.L) are set on the production cross-section times branching ratio of the resonance decaying to $t\bar{t}$ pairs as a function of the resonance pole mass.

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Collaboration Name **Please enter the name of the collaboration or group using the acronym, as in: ABC Collaboration**

ATLAS Collaboration

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