

## Search for Resonances in Semi-leptonic Top-pair Decays Close to Production Threshold

### **Abstract**

Results of a search for massive neutral bosons decaying via a top-antitop quark pair. The analysis is based on 36 pb<sup>-1</sup> of proton-proton collision data at a centre-of-mass energy of 7 TeV collected by the CMS detector at the LHC during 2010.

From a combined analysis of the muon plus jets and electron plus jets decay modes no significant signal is observed, and upper limits on the production cross section as a function of the boson mass are reported.