

ICHEP2012



Contribution ID: 582

Type: **Parallel Sessions**

Top quark pair production cross section at CMS

Thursday, July 5, 2012 9:15 AM (15 minutes)

Precision measurements are presented of the top-pair production cross section in proton-proton collisions at the LHC at a centre-of-mass energy of 7 TeV. The data are collected with the CMS experiment during the year 2011. The measurements are performed in several decay channels, the lepton+jets, the dilepton and the fully hadronic channels, including the tau-dilepton and tau+jets modes. B-jet identification is used to increase the purity of the selection. The backgrounds are determined using data-driven techniques. The results are combined with each other and compared with theory predictions.

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Session Classification: TR4 - Top Quark Physics

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