ID de Contribution: **30** Type: **Ordinary**

Top Physics in LHC

lundi 4 mars 2013 08:30 (20 minutes)

An overview of recent results on top quark properties and interactions is given, obtained using data collected with the CMS and ATLAS experiments during the years 2011 and 2012 at 7 TeV and 8 TeV center-of-mass energies. Measurements of top quark pair production cross sections in several top quark final states are reported. Moreover, cross sections for the electroweak production of single top quarks in both t- and tW-channels are shown. The mass of the top quark is extracted using several methods. Presented results also include measurements of the W helicity in top decays, the top pair charge asymmetry, the top quark charge and the search for anomalous couplings. Experimental outcomes are compared with standard model predictions and a combination of measurements between the different LHC experiments is reported when available

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Classification de Session: Top & Dark Matter

Classification de thématique: Experiment