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Measurement of differential cross sections in top pair production in pp collisions with CMS

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Differential top quark pair production cross sections are measured in proton-proton collisions at the LHC at centre-of-mass energies of 7 and 8 TeV, using data collected by the CMS experiment in the years 2011 and 2012. The differential cross sections are measured as functions of various kinematic observables, including the transverse momentum and rapidity of the (anti)top quark and the top-antitop system and the jets and leptons of the event final state. Multiplicity and kinematic distributions of the jets produced in addition to the top pair are investigated. First measurements of the associate production of top quark pairs with vector bosons and with additional b-quarks in the final state are also presented.

Summary

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