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Measurement of the charge asymmetry in top quark pair production at 7 TeV

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We present a measurement of the charge asymmetry in top-pair production in proton-proton collisions at the LHC at a centre-of-mass energy of 7 TeV. We use data collected by the CMS experiment during the year 2011. The analysis uses events with one charged lepton and at least four jets. In order to measure the charge asymmetry in charge-symmetric initial state processes, the difference of absolute pseudo rapidities of top and anti-top is used. The asymmetry is measured inclusively, but also as a function of the top-pair invariant mass. The results are compared with various theory predictions, and discussed in the context of forward-backward asymmetry measurements at Tevatron.

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