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Charge asymmetry in top pair production

The charge asymmetry in the top quark pair production in pp collisions at the energy of 13TeV is estimated using POWHEG events. The asymmetries are measured using the rapidity and pseudorapidity of the produced top and antitop, or leptons from top decay. We calculate the inclusive asymmetries and their dependence on the invariant mass of the top-antitop pair, transverse momentum of top-antitop pair and longitudinal speed. The expected uncertainties for LHC Run2 are estimated.

Summary

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