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Intrinsic top quark properties top mass, charge and polarisation at LHC in ATLAS

Properties of the top quark are measured with the ATLAS detector using LHC proton-proton collisions data. Measurements of the top-quark mass, charge and polarisation, as well as of the polarization of W bosons in top quark decays to probe the Wtb-vertex are presented.
In addition, measurements of the spin correlation between top and antitop quarks as well as of the top-quark charge asymmetry, which constitute important tests of QCD and are sensitive to new physics, are discussed.
The search for flavour changing neutral current processes in top quark decays is reviewed.

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