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Top quark properties at ATLAS

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We present results on top quark properties using data collected in 7 TeV LHC proton-proton collisions with the ATLAS detector, including the top-quark charge, mass, the polarization of W bosons, spin correlations and charge asymmetry. A search for flavour changing neutral current processes in top quark production and decay is also presented. Several extensions of the Standard Model predict the presence of new particles that couple to the top quark. We present the result of searches for resonances decaying to top-quark pairs or top-quark partners producing an excess of missing transverse momentum.

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