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## Measurements of the top-quark properties at CMS

Measurements of several top-quark properties are presented, obtained from the CMS data collected in 2011 and 2012 at centre-of-mass energies of 7 and 8 TeV. The results include measurements of the top pair charge asymmetry, the W helicity in top decays, the top quark charge, and of the  $t\bar{t}$  spin correlation and the search for anomalous couplings. The fraction of top quarks decaying into a W-boson and a b-quark relative to all top quark decays,  $R = \text{BR}(t \rightarrow Wb) / \text{Sum}(\text{BR}(t \rightarrow Wq))$ , is determined. Furthermore, the cross sections of  $t\bar{t}$  events produced in association with a photon or a W or a Z boson are measured.

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