Contribution ID: **112** Type: **not specified**

Measurements of the top-quark properties in the production and decays of $t\bar{t}$ events at CMS

Tuesday 4 April 2017 11:40 (20 minutes)

Measurements of several top-quark properties are presented, obtained from the CMS data collected at various centre-of-mass energies. The results include measurements of the top pair charge asymmetry, the W helicity in top decays, CP violation, $t\bar{t}$ spin correlation, top polarisation and the search for anomalous couplings including Flavour Changing Neutral Currents. The results are compared with predictions from the standard model as well as new physics models. The cross section of $t\bar{t}$ events produced in association with a W, Z boson or a photon is also measured.

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Session Classification: WG5 Physics with Heavy Flavours

Track Classification: WG5) Physics with Heavy Flavours