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Measurements of the top quark properties at decay with CMS

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Several measurements of top quark properties are presented using data collected by the CMS experiment at different centre-of-mass-energies. The properties are mostly probed in the decay of the top quarks. The Wtb couplings are probed by measuring the helicity fractions in single top and $t\bar{t}$ topologies or by inspecting a V-A vertex structure of the coupling. Furthermore, searches for flavor-changing neutral currents involving top quarks are discussed including tZq , tyq , tgq and tHq couplings. Limits are set on anomalous top couplings and the results are furthermore re-interpreted as searches for new physics inducing deviations from the standard model predictions.

Experimental Collaboration

CMS

Presenter: CASTRO, Andrea (Universita e INFN, Bologna (IT))**Session Classification:** Top and electroweak**Track Classification:** Top and Electroweak Physics