Contribution ID: **160** Type: **Parallel Talk**

Measurements of the top quark properties at decay with CMS

Friday, July 7, 2017 5:00 PM (15 minutes)

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 ttbar 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, tγq, 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

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Session Classification: Top and electroweak

Track Classification: Top and Electroweak Physics