



**HEP 2013
Stockholm
18-24 July 2013**



Contribution ID: 624

Type: **Poster Presentation**

Measurement of $t\bar{t}$ production with additional jet activity

Jet multiplicity distributions in top-quark pair ($t\bar{t}$) events are measured with the CMS detector. The measurement is performed in the dilepton and lepton+jets decay channels of the top-quark pairs. The normalised differential $t\bar{t}$ quark cross section is measured as a function of the jet multiplicity for different transverse momentum (p_T) thresholds. Furthermore, the distribution of the fraction of events without additional jets above a p_T threshold is measured as functions of the leading additional jets transverse momentum and of the scalar sum of the transverse momenta of all additional jets. The data are compared with several predictions from perturbative QCD calculations.

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Track Classification: Top and Electroweak Physics