

# XXVIII International Workshop on Deep Inelastic Scattering and Related Subjects



Contribution ID: 137

Type: **Contributed Talk**

## Top quark pair and single top cross sections and top quark production in association with additional particles at CMS: $t\bar{t}+\text{jets}$ , $t\bar{t}+b\bar{b}$ , $t\bar{t}Z$ , $t\bar{t}W$ , $t\bar{t}\gamma$ , $tZ$ , $t\gamma$ , and $t\bar{t}t\bar{t}$ production

*Tuesday, 24 March 2020 12:20 (20 minutes)*

Latest results on inclusive and differential top quark pair and single top quark production cross sections are presented using proton-proton collision data collected by the CMS experiment. The differential cross sections are measured as a function of various kinematic observables of the top quarks and the jets and leptons of the event final state. The results are confronted with precise theory calculations and used to constrain Standard Model parameters.

Files

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**Session Classification:** QCD with Heavy Flavors and Hadronic Final States

**Track Classification:** QCD with Heavy Flavors and Hadronic Final States