



Contribution ID: 210

Type: Talk

## Recent top quark measurements with the CMS experiment

*Thursday 10 September 2020 11:50 (25 minutes)*

Latest results on top quark pair and single top quark production cross sections (inclusive and differential) are presented using proton-proton collision data collected by CMS. The results are confronted with precise theory calculations and used to constrain Standard Model parameters. For the first time, the third row of CKM matrix is measured from single top quark events and multidifferential  $t\bar{t}$  cross sections are used to constrain simultaneously the top quark pole mass,  $\alpha_S$ , and PDFs. Moreover, recent results on top quark properties, such as spin correlations, mass measurements or constraints on top Yukawa from differential cross sections are also presented.

### Is this abstract from experiment?

Yes

### Internet talk

Yes

### Name of experiment and experimental site

CMS

### Is the speaker for that presentation defined?

Yes

### Details

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**Session Classification:** Semiplenary