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## Measurements of top quark production cross sections in CMS

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Recent measurements of inclusive and differential cross sections for top quark pair or single top productions are presented using the data collected by the CMS detector. The differential cross sections are measured multi-differentially as a function of various kinematic observables of top quarks, jets, leptons of the event final state. Results for  $t\bar{t}$  cross sections are compared to precise theory calculations, among them also MINNLO+PS for the first time. The single top quark analyses investigate separately the production of top quarks via the associated production with a W boson ( $tW$ ) or via the s-channel.

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