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Top quark pair and single top differential cross sections in CMS

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Differential measurements of top quark pair and single top quark production cross sections are presented using data collected by CMS. The 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. Multidifferential $t\bar{t}$ cross sections are presented and used to constrain simultaneously the top quark pole mass, α_S , and PDFs.

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