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## **[Cancelled] Recent $t\bar{t}$ and single top inclusive cross sections results in CMS**

Latest results on inclusive top quark pair and single top quark production cross sections are presented using proton-proton collision data collected by CMS at different centre-of-mass energies, including 5 TeV. The single top quark analyses investigate separately the production of top quarks via t-channel exchange, in association with a W boson ( $tW$ ) or via the s-channel. Final states with at least one charged lepton and one b-jet are explored to measure inclusive production cross sections. The sensitivity of some these measurements to PDFs and extraction of standard model parameters is also described. Moreover, first  $t\bar{t}$  cross sections results in proton-lead collisions are discussed.

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