

XXVII International Workshop on Deep Inelastic Scattering and Related Subjects



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## Top pairs at the LHC

*Tuesday 9 April 2019 09:05 (35 minutes)*

Latest results on inclusive top quark pair production cross sections are presented using proton-proton collision data collected at the LHC. The inclusive measurements reach high precision and are compared to the best available theoretical calculations. Differential measurements of the kinematic properties of the top quark production are also discussed. These measurements, including results using boosted top quarks, probe our understanding of top quark pair production in the TeV regime. The results, unfolded to particle and parton level, are compared to predictions of Monte Carlo generators implementing NLO matrix elements matched with parton showers and NNLO QCD theory calculations.

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