

Recent $t\bar{t}$ (inclusive and differential) cross sections results in CMS

Thursday, 5 July 2018 09:00 (15 minutes)

Latest results on inclusive top quark pair production cross sections are presented using proton-proton collision data collected by CMS at different centre-of-mass energies, including 5 TeV. 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. Differential top quark pair production cross sections are discussed with respect to kinematic variables in final states with at least one lepton. Constraints placed on the EFT operator O_{tG} are discussed as well as the measurement of $t\bar{t}$ asymmetries in the top quark-antiquark system.

Primary authors: BURNS, Douglas John Paul (University of Bristol (GB)); BURNS, Douglas John Paul (University of Bristol (GB))

Presenters: BURNS, Douglas John Paul (University of Bristol (GB)); BURNS, Douglas John Paul (University of Bristol (GB))

Session Classification: Top Quark and Electroweak Physics

Track Classification: Top Quark and Electroweak Physics