

26th International Conference on Supersymmetry and Unification of Fundamental Interactions (SUSY2018)



Contribution ID: 261

Type: Posters (last call deadline 30th June)

First measurement of $t\bar{W}$ production cross-section at $\sqrt{s} = 13$ TeV with CMS

The inclusive cross-section for $t\bar{W}$ production in proton-proton collisions at $\sqrt{s} = 13$ TeV is measured of a dataset corresponding to an integrated luminosity of 35.9 fb^{-1} collected by the CMS experiment. The measurement is performed using events with one electron and one muon in the final state along with at least one b-quark jet, and exploits kinematic differences between the signal and the dominating $t\bar{t}$ background through the use of multivariant discriminants designed to separate the two processes. The measured cross-section of $\sigma = 63.1 \pm 1.8$ (stat) ± 6.4 (syst) ± 2.1 (lumi) pb is in agreement with Standard Model expectations.

Parallel Session

Electroweak, Top and Higgs Physics

Authors: Ms PRIYANKA, Priyanka (University of Delhi); GHOSH, Shamik (Saha Institute of Nuclear Physics (IN))

Presenters: Ms PRIYANKA, Priyanka (University of Delhi); GHOSH, Shamik (Saha Institute of Nuclear Physics (IN))