

Contribution ID: 708

Type: Poster

Diboson and top quark pair production cross section measurements at 5.02 TeV in CMS

We explore a new energy regime, 5 TeV, for the diboson and top quark pair productions in proton-proton collisions using 304/pb of data collected in 2017 by the CMS experiment at the LHC. The diboson, WW, WZ, and ZZ, cross sections are measured analyzing events with two, three or four charged leptons in the final state. The cross sections are compared with NNLO predictions and across other experiments. The top quark pair production measurement is performed using events with one electron and one muon of opposite sign, and at least two jets. To reduce the statistical uncertainty, a combination with the result in the l+jets channel, based on 27.4 1/pb of data collected in 2015 at the same center-of-mass energy, is then performed.

First author

Andrea Trapote

Email

andrea.trapote.fernandez@cern.ch

Collaboration / Activity

Universidad de Oviedo

Primary author: TRAPOTE, Andrea

Presenter: TRAPOTE, Andrea

Session Classification: T07: Top and Electroweak Physics

Track Classification: Top and Electroweak Physics