Contribution ID: **153** Type: **Parallel**

Top modelling and tuning in CMS

Friday, 6 July 2018 11:30 (15 minutes)

State-of-the-art theoretical predictions accurate to next-to-leading order QCD interfaced with Pythia8, Herwig, and Sherpa event generators are tested by comparing the unfolded ttbar differential data collected with the CMS detector at 8 and 13 TeV. These predictions are also compared with the underlying event activity distributions in ttbar events using CMS proton-proton data collected at a center of mass energy of 13 TeV. In addition, studies of jet shapes in ttbar events at 13 TeV are presented. Studies to derive and test the new CMS event tune obtained through jet kinematics in ttbar events and global event variables are also described.

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Session Classification: Top Quark and Electroweak Physics

Track Classification: Top Quark and Electroweak Physics