

# XXIV International Workshop on Deep-Inelastic Scattering and Related Subjects (DIS16)



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## Top quark event modelling and generators in CMS

*Wednesday, 13 April 2016 15:30 (15 minutes)*

State-of-the-art theoretical predictions accurate to next-to-leading order QCD interfaced with Pythia8 and Herwig++ event generators are tested by comparing the unfolded  $t\bar{t}$  differential data collected with the CMS detector at 8 TeV. These predictions are also compared with the underlying event activity distributions in  $t\bar{t}$  events using CMS proton-proton data collected in 2015 at a center of mass energy of 13 TeV.

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**Session Classification:** WG4 Heavy Flavours

**Track Classification:** Heavy Flavours (Charm, Beauty and Top)