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## Top quark event modelling and generators in CMS

*Saturday 8 July 2017 09:45 (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 and 13 TeV. These predictions are also compared with the underlying event activity distributions in  $t\bar{t}$  events using CMS proton-proton data collected at a center of mass energy of 13 TeV.

### Experimental Collaboration

CMS

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