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Top quark event modelling and generators

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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 ttbar differential data collected with the CMS detector at 8 TeV. These predictions are also compared with the underlying event activity distributions in ttbar events using CMS proton-proton data collected in 2015 at a center of mass energy of 13 TeV.

Primary author: RAHMAT, Rahmat (University of Iowa (US))

Presenter: RAHMAT, Rahmat (University of Iowa (US))

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