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Top quark event modelling and generators in CMS

Tuesday, 29 August 2017 16:30 (30 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 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. Studies of b-quark fragmentation in ttbar events are furthermore presented.

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Session Classification: Top, heavy quarks and searches