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Monte Carlo generator for the modelling of multijet processes in ATLAS at 13 TeV

Abstract: Most of the interesting physics at the LHC involves final states with hadronic jets.

We present Monte Carlo event generator configurations used by the ATLAS experiment

to model multi-jet processes in pp collisions at 13 TeV.
The generators are compared to each other for kinematic distributions sensitive both to the kinematic of hard process and to shower and non-perturbative effects.
Recipes for evaluating uncertainties covering differences related to the matrix-element generator and matching, the shower radiation, and hadronisation effects are also discussed.

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