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Use of Monte Carlo Event Generators for the study of 13 TeV pp collisions by ATLAS

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The use of NLO and multileg Monte Carlo generators by the ATLAS experiment in the analysis of 13 TeV data is discussed. Procedures to validate these generators by comparing results obtained using data collected at 7 TeV, 8 TeV and 13 TeV to the generator predictions are described. Techniques used to evaluate systematic uncertainties on Monte Carlo modelling are also discussed.

Summary

The use of NLO and multileg Monte Carlo generators by the ATLAS experiment in the analysis of 13 TeV data is discussed. Procedures to validate these generators by comparing results obtained using data collected at 7 TeV, 8 TeV and 13 TeV to the generator predictions are described. Techniques used to evaluate systematic uncertainties on Monte Carlo modelling are also discussed.

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