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Modelling of top-quark pair events in ATLAS data

The modelling of final state particles is one of the major sources of systematic uncertainties in measurements of top-quark cross-sections and properties in proton-proton collisions at the LHC. Furthermore, top-quark pair production is one of the main backgrounds for Higgs measurements and searches for new physics. Therefore these analyses would also strongly benefit from an improved $t\bar{t}$ modelling. Comparisons between unfolded ATLAS data and different generator predictions will be shown. These comparisons include the generator setups used for the latest published ATLAS results, as well as additional studies with newer generator setups.

Summary

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