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Measurement of the tchannel single topquark and topantiquark differential crosssections in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector

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Differential crosssection measurements of tchannel single topquark production are presented. They use 20.2 fb⁻¹ of data collected by the ATLAS experiment in proton–proton collisions in the LHC at a centreofmass energy of 8 TeV. Differential crosssections as a function of the transverse momentum and rapidity of both the top quark and the top antiquark have been measured at both parton and particle level. The transverse momentum and rapidity differential crosssections of the scattered light jet have been measured at particle level. All measurements are compared to different Monte Carlo predictions as well as to available fixedorder QCD calculations.

Summary

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