**Top 2016** 



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## Measurement of top quark pair differential cross-sections in the dilepton channel in pp collisions at sqrt(s) = 7 and 8 TeV with ATLAS

Measurements of normalized differential crosssections of top quark pair (ttbar) production are presented as a function of the mass, the transverse momentum and the rapidity of the ttbar system in protonproton collisions at centerofmass energies of sqrt(s) = 7 TeV and 8 TeV. The dataset corresponds to an integrated luminosity of 4.6 fb1 at 7 TeV and 20.2 fb1 at 8 TeV, recorded with the ATLAS detector at the Large Hadron Collider. Events with top quark pair signatures are selected in the dilepton final state, requiring exactly two charged leptons and at least two jets with at least one of the jets identified as likely to contain a bhadron. The measured distributions are corrected for detector effects and selection efficiency to crosssections at the parton level. The differential crosssections are compared with different Monte Carlo generators and theoretical calculations of ttbar production. The results are consistent with the majority of predictions in a wide kinematic range.

## Summary

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