

# Measurements of the top quark mass with the ATLAS detector

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The top quark mass is one of the fundamental parameters of the Standard Model. The latest ATLAS measurements of the top quark mass in top quark pair final states are presented. Measurements use dilepton, lepton+jets and all-hadronic final states and their combination is performed. Measurements of the top quark pole mass based on precision theoretical QCD calculations for lepton kinematic distribution and for  $t\bar{t}$  production with an additional jet are also presented, as well as a measurement of the top quark mass using 13 TeV data.

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