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Measurements of the top quark mass using the ATLAS detector at the LHC

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The latest measurements of the top quark mass using the ATLAS experiment are presented. A measurement based on a multidimensional
template fit that can constrain the uncertainties on the energy measurements of jets is presented and combined with a measurement
using dilepton events. A new measurement of the top quark mass using leptonic kinematic variables is presented. The measurement
uses a novel technique to measure the top quark mass with minimal dependence on hadronic jets. In addition, measurements are
presented that use precision theoretical QCD calculations for both inclusive ttbar production and ttbar production with an
additional jet to extract the top quark mass in the polemass scheme.

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