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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 multi-dimensional template fit that can constrain the uncertainties on the energy measurements of jets is presented and combined with a measurement using dilepton events. A measurement in the all-hadronic channel is also reported. In addition an analysis of the top quark mass using leptonic kinematic variables is discussed. The measurement uses a novel technique to measure the top quark mass with minimal dependence on hadronic jets. Measurements that use precision theoretical QCD calculations for both inclusive ttbar production and ttbar production with an additional jet are also presented to extract the top quark mass in the pole-mass scheme.

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