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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 measurements using dilepton and all-hadronic events. 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. A measurement of the top quark width and the measurements that use precision theoretical QCD calculations for both inclusive $t\bar{t}$ production and $t\bar{t}$ production with an additional jet to extract the top quark mass in the pole-mass scheme are also presented.

Primary author: Dr PINAMONTI, Michele (INFN e Universita Roma Tor Vergata (IT))

Co-author: REBUZZI, Daniela (Universita e INFN, Pavia (IT))

Presenter: Dr PINAMONTI, Michele (INFN e Universita Roma Tor Vergata (IT))

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