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Measurements of the top quark mass (CMS)

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The mass of the top quark is a fundamental parameter of the Standard Model. Measurements of the top quark mass are presented using data collected by the CMS experiment during the year 2011, in proton-proton collisions at the LHC at a centre-of-mass energy of 7 TeV. Different reconstruction methods to extract the top quark mass are employed. The results of the various channels are combined and compared to the world average. The top mass is also extracted from the top pair cross section measured at CMS, including a determination of m_{top} in the \overline{MS} scheme.

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