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## Measurements of the top quark mass and the top-antitop mass difference at 7 TeV

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The mass of the top quark is a fundamental parameter of the Standard Model. We present a measurements of the top quark mass in proton-proton collisions at the LHC at a centre-of-mass energy of 7 TeV using data collected by the CMS experiment during the year 2011. Measurements are presented in all possible final states originating from top-pair production, and the different reconstruction methods to extract the top quark mass are discussed. Particular emphasis will be given to the contribution of systematic uncertainties. 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  $m_{\text{top}}$  in the  $\overline{\text{ms}}$  scheme. Finally, a measurement of the top-antitop quark mass difference is presented.

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