

## Measurement of the mass difference between top and antitop quarks with CMS

A measurement of the mass difference between the top quark and the antitop quark ( $\Delta m_t = m_t - m_{\bar{t}}$ ) is performed using events with a muon and at least four jets in the muon+jets final state. Data collected in 2011 with the CMS detector at the LHC and corresponding to an integrated luminosity of  $1.09 \text{ fb}^{-1}$  are analyzed. The measured value of  $\Delta m_t = -1.2 \pm 1.2 \text{ (stat.)} \pm 0.5 \text{ (syst.) GeV}$  is consistent with the standard model.

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