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Measurement of the top-antitop mass difference (CMS)

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A measurement of the difference between the masses of top and anti-top quarks is 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. Events from the 1+jets channel are selected by requiring one lepton and at least four jets in the final state. The measured value is compared with the prediction from the Standard Model, where no difference in mass between the top quark and the antitop quark is expected.

Primary author: Mr VAN ONSEM, Gerrit (Vrije Universiteit Brussel (BE))

Presenter: Mr VAN ONSEM, Gerrit (Vrije Universiteit Brussel (BE))

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