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Measurement of σ(ttbarbbbar)/σ(ttbarjj) at s = 13 TeV at CMS experiment

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We present the measurement of the cross section ratio σ(ttbarbbbar)/σ(ttbarjj) in the lepton plus jets and the dilepton decay mode, using a data sample collected in pp collisions at s = 13 TeV with the CMS detector at the LHC. The cross section ratio σ(ttbarbbbar)/σ(ttbarjj) is measured in the visible phase space corresponding to the detector acceptance, and corrected to particle level. In the events with at least six reconstructed jets for the lepton plus jets decay mode and at least four jets for the dilepton decay mode, the measurements are performed by means of a fit to the measured b-tagging algorithm output.

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