

Measurement of $t\bar{t}b\bar{b}$ production at 13 TeV with the CMS experiment

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The measurement of the cross section ratio $\sigma(t\bar{t}b\bar{b}) / \sigma(t\bar{t}j\bar{j})$ is performed in pp collisions at $\sqrt{s} = 13$ TeV with the CMS detector at the LHC. Events with two leptons (e or μ) and at least four reconstructed jets, including at least two identified as b quark jets, in the final state are selected. The ratio is measured at the particle in visible phase space and the parton level in the full phase space. The measurement is compatible with the expectation obtained from the POWHEG simulation interfaced with PYTHIA.

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