

Combined measurement of the $t\bar{t}$ cross section and b tagging efficiency using μ +jets events with CMS

The measurement of the top quark pair cross section at the LHC is important for diverse reasons. The measurement on its own is a test of the Standard Model as well as a benchmark for the theoretical calculations. This poster describes the combined measurement of the $t\bar{t}$ cross section, using b-tagging, and the b-tagging efficiency using the μ +jets event topology observed by the CMS experiment at $\sqrt{s}=7$ TeV. The data collected in 2011 used for this measurement corresponds to an integrated luminosity of 1093 pb⁻¹.

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