

CMS Preliminary, $\sqrt{s}=7$ TeV

CMS 2011 combination

TOP-11-024 (L=0.8-1.1/fb)

$166 \pm 2 \pm 11 \pm 8$

(val. \pm stat. \pm syst. \pm lumi.)

CMS e/ μ +jets+bttag

TOP-11-003 (L=0.8-1.1/fb)

$164 \pm 3 \pm 12 \pm 7$

(val. \pm stat. \pm syst. \pm lumi.)

CMS dilepton (ee, $\mu\mu$,e μ)

TOP-11-005 (L=1.1/fb)

$170 \pm 4 \pm 16 \pm 8$

(val. \pm stat. \pm syst. \pm lum)

CMS all-hadronic

TOP-11-007 (L=1.1/fb)

$136 \pm 20 \pm 40 \pm 8$





(val. \pm stat. \pm syst. \pm lumi.)

CMS dilepton ($\mu\tau$)

TOP-11-006 (L=1.1/fb)

$149 \pm 24 \pm 26 \pm 9$

(val. \pm stat. \pm syst. \pm lumi.)

-  Approx. NNLO QCD, Aliev et al., Comput.Phys.Commun. 182 (2011) 1034
-  Approx. NNLO QCD, Kidonakis, Phys.Rev.D 82 (2010) 114030
-  Approx. NNLO QCD, Ahrens et al., JHEP 1009 (2010) 097
-  NLO QCD

0 50 100 150 200 250 300

$\sigma(t\bar{t})$ (pb)