

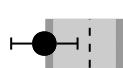
NNLO+NNLL PRL 110 (2013) 252004
 $m_t = 172.5 \text{ GeV}$, $\alpha_s(M_z) = 0.118 \pm 0.001$

Scale uncertainty
 Scale \oplus PDF $\oplus \alpha_s$ uncertainty

- Combination
- ▼ Lepton+jets
- ▲ Dilepton
- All jets

$\sqrt{s} = 13.6 \text{ TeV}$

CMS, ee, $\mu\mu$, e μ , l+jets, $L_{\text{int}} = 1.2 \text{ fb}^{-1}$ [JHEP 08 (2023) 204]



$\sigma_{t\bar{t}} \pm \text{tot. uncert}$

$882 \pm 30.5 \text{ pb}$

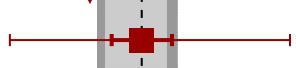
$\sqrt{s} = 13 \text{ TeV}$

CMS, l+jets, $L_{\text{int}} = 137 \text{ fb}^{-1}$ [PRD 104 (2021) 092013]



$791 \pm 25.0 \text{ pb}$

CMS, all jets *, $L_{\text{int}} = 2.53 \text{ fb}^{-1}$ [CMS-PAS-TOP-16-013]



$834^{+123.0}_{-109.0} \text{ pb}$

CMS, l+jets, $L_{\text{int}} = 2.2 \text{ fb}^{-1}$ [JHEP 09 (2017) 051]



$888^{+33.0}_{-34.0} \text{ pb}$

CMS, l+jets *, $L_{\text{int}} = 42 \text{ pb}^{-1}, 50 \text{ ns}$ [CMS-PAS-TOP-15-005]



$836 \pm 133.0 \text{ pb}$

CMS, $\tau + e/\mu$, $L_{\text{int}} = 35.9 \text{ fb}^{-1}$ [JHEP 02 (2020) 191]



$781 \pm 66.0 \text{ pb}$

CMS, e μ , $L_{\text{int}} = 35.9 \text{ fb}^{-1}$ [EPJC 79 (2019) 368]



$803 \pm 32.0 \text{ pb}$

$\sqrt{s} = 8 \text{ TeV}$

LHC combined e μ (May 2022), $L_{\text{int}} = 20 \text{ fb}^{-1}$ [JHEP 07 (2023) 213]



$243.3 \pm 6.0 \text{ pb}$

CMS, all jets, $L_{\text{int}} = 18.4 \text{ fb}^{-1}$ [EPJC 76 (2016) 128]



$275.6 \pm 39.0 \text{ pb}$

CMS, e μ , $L_{\text{int}} = 19.7 \text{ fb}^{-1}$ [JHEP 08 (2016) 029]



$244.9^{+9.1}_{-8.6} \text{ pb}$

CMS, ee, $\mu\mu$, e μ , $L_{\text{int}} = 5.3 \text{ fb}^{-1}$ [JHEP 02 (2014) 024]



$239.0 \pm 13.1 \text{ pb}$

CMS, $\tau_{\text{had}} + l$, $L_{\text{int}} = 19.6 \text{ fb}^{-1}$ [PLB 739 (2014) 23]



$257 \pm 25.0 \text{ pb}$

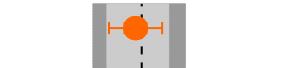
CMS, l+jets, $L_{\text{int}} = 19.6 \text{ fb}^{-1}$ [EPJC 77 (2017) 15]



$228.5 \pm 15.4 \text{ pb}$

$\sqrt{s} = 7 \text{ TeV}$

LHC combined (May 2022), $L_{\text{int}} = 5 \text{ fb}^{-1}$ [JHEP 07 (2023) 213]



$178.5 \pm 4.7 \text{ pb}$

CMS, all jets, $L_{\text{int}} = 3.5 \text{ fb}^{-1}$ [JHEP 05 (2013) 065]



$139 \pm 28.0 \text{ pb}$

CMS, $\tau_{\text{had}} + j + \text{jets}$, $L_{\text{int}} = 3.9 \text{ fb}^{-1}$ [EPJC 73 (2013) 2386]



$152 \pm 34.0 \text{ pb}$

CMS, $\tau_{\text{had}} + l$, $L_{\text{int}} = 2.2 \text{ fb}^{-1}$ [PRD 85 (2012) 112007]



$143 \pm 26.0 \text{ pb}$

CMS, e μ , $L_{\text{int}} = 5.0 \text{ fb}^{-1}$ [JHEP 08 (2016) 029]



$173.6^{+6.3}_{-5.9} \text{ pb}$

CMS, l+jets, $L_{\text{int}} = 5.0 \text{ fb}^{-1}$ [EPJC 77 (2017) 15]



$161.7 \pm 13.9 \text{ pb}$

$\sqrt{s} = 5.02 \text{ TeV}$

CMS combined, $L_{\text{int}} = 27.4\text{--}302 \text{ pb}^{-1}$ [JHEP 04 (2022) 144]



$63.0 \pm 5.1 \text{ pb}$

CMS, e μ , $L_{\text{int}} = 302 \text{ pb}^{-1}$ [JHEP 04 (2022) 144]



$60.7 \pm 5.8 \text{ pb}$

CMS, l+jets, $L_{\text{int}} = 27.4 \text{ pb}^{-1}$ [JHEP 03 (2018) 115]



$68.9 \pm 9.1 \text{ pb}$

* Preliminary

