

Inclusive $t\bar{t}$ cross section [pb]

ATLAS+CMS Preliminary Sept 2019
LHC $t\bar{t}$ WG

- ∇ Tevatron combined 1.96 TeV ($L \leq 8.8 \text{ fb}^{-1}$)
- \bullet CMS dilepton, $l+l$ jets 5.02 TeV ($L = 27.4 \text{ pb}^{-1}$)
- \blacksquare ATLAS $e\mu$ 7 TeV ($L = 4.6 \text{ fb}^{-1}$)
- \bullet CMS $e\mu$ 7 TeV ($L = 5 \text{ fb}^{-1}$)
- \blacksquare ATLAS $e\mu$ 8 TeV ($L = 20.2 \text{ fb}^{-1}$)
- \bullet CMS $e\mu$ 8 TeV ($L = 19.7 \text{ fb}^{-1}$)
- \blacktriangledown LHC combined $e\mu$ 8 TeV ($L = 5.3\text{-}20.3 \text{ fb}^{-1}$) LHC $t\bar{t}$ WG
- \blacksquare ATLAS $e\mu^*$ 13 TeV ($L = 36.1 \text{ fb}^{-1}$)
- \triangledown CMS $e\mu$ 13 TeV ($L = 35.9 \text{ fb}^{-1}$)
- \blacklozenge CMS $\tau+e/\mu^*$ 13 TeV ($L = 35.9 \text{ fb}^{-1}$)
- \square ATLAS $l+l$ jets* 13 TeV ($L = 139 \text{ fb}^{-1}$)
- \triangle CMS $l+l$ jets 13 TeV ($L = 2.2 \text{ fb}^{-1}$)
- \circ CMS all-jets* 13 TeV ($L = 2.53 \text{ fb}^{-1}$)

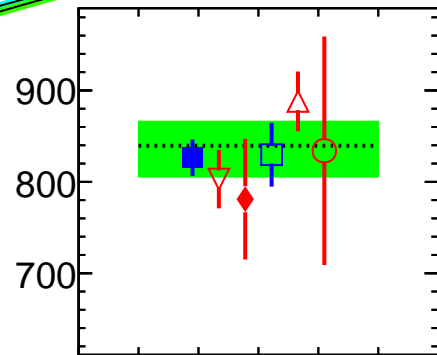
* Preliminary

 NNLO+NNLL (pp)

 NNLO+NNLL ($p\bar{p}$)

Czakon, Fiedler, Mitov, PRL 110 (2013) 252004

NNPDF3.0, $m_{\text{top}} = 172.5 \text{ GeV}$, $\alpha_s(M_Z) = 0.118 \pm 0.001$



10^3

10^2

10

2

4

6

8

10

12

14

\sqrt{s} [TeV]