

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

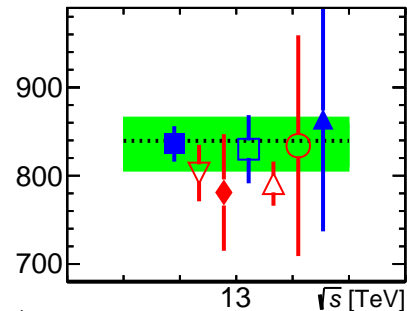
ATLAS+CMS Preliminary
LHCtop WG November 2022

- ∇ Tevatron combined 1.96 TeV ($L \leq 8.8 \text{ fb}^{-1}$)
 - \blacklozenge ATLAS combined dilepton, $l+l$ jets* 5.02 TeV ($L = 257 \text{ pb}^{-1}$)
 - \bullet CMS combined $e\mu$, $l+l$ jets 5.02 TeV ($L = 27.4\text{-}302 \text{ pb}^{-1}$)
 - \blacksquare ATLAS $e\mu$ 7 TeV ($L = 4.6 \text{ fb}^{-1}$)
 - \bullet CMS $e\mu$ 7 TeV ($L = 5 \text{ fb}^{-1}$)
 - \blacktriangledown LHC combined* $e\mu$ 7 TeV ($L = 5 \text{ fb}^{-1}$) LHCtop WG
 - \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 ($L = 20 \text{ fb}^{-1}$) LHCtop WG
 - \blacksquare ATLAS $e\mu$ * 13 TeV ($L = 139 \text{ fb}^{-1}$)
 - ∇ 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 ($L = 137 \text{ fb}^{-1}$)
 - \circ CMS all-jets* 13 TeV ($L = 2.53 \text{ fb}^{-1}$)
 - \blacktriangle ATLAS all-jets 13 TeV ($L = 36.1 \text{ fb}^{-1}$)
 - $+$ CMS dilepton, $l+l$ jets* 13.6 TeV ($L = 1.2 \text{ fb}^{-1}$)
- * 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
10²
10³
10⁴

2 4 6 8 10 12 14

\sqrt{s} [TeV]