

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

ATLAS+CMS Preliminary May 2016

LHCtopWG

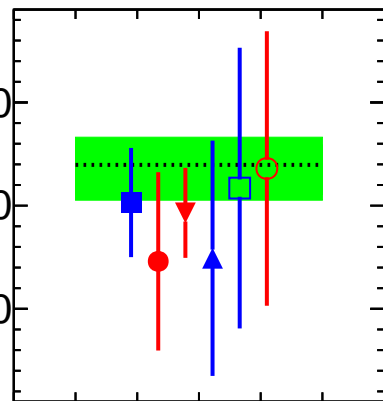
- ▽ Tevatron combined 1.96 TeV ($L \leq 8.8 \text{ fb}^{-1}$)
- ATLAS $e\mu$ 7 TeV ($L = 4.6 \text{ fb}^{-1}$)
- CMS $e\mu$ 7 TeV ($L = 5 \text{ fb}^{-1}$)
- ATLAS $e\mu$ 8 TeV ($L = 20.3 \text{ fb}^{-1}$)
- CMS $e\mu$ 8 TeV ($L = 19.7 \text{ fb}^{-1}$)
- ▼ LHC combined $e\mu$ 8 TeV ($L = 5.3\text{-}20.3 \text{ fb}^{-1}$)
- ATLAS $e\mu$ 13 TeV ($L = 3.2 \text{ fb}^{-1}$)
- CMS $e\mu$ 13 TeV ($L = 43 \text{ pb}^{-1}$, 50 ns)
- ▼ CMS $e\mu$ 13 TeV ($L = 2.2 \text{ fb}^{-1}$, 25 ns)
- ▲ ATLAS $ee/\mu\mu$ 13 TeV ($L = 85 \text{ pb}^{-1}$)
- ATLAS $l+jets$ 13 TeV ($L = 85 \text{ pb}^{-1}$)
- CMS $l+jets$ 13 TeV ($L = 42 \text{ pb}^{-1}$)

NNLO+NNLL (pp)

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

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

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



13 \sqrt{s} [TeV]

\sqrt{s} [TeV]

10^3

10^2

10

2

4

6

8

10

12

14