

Inclusive tt cross section [pb]

ATLAS+CMS Preliminary

Aug 2016

LHCtopWG

- ▽ Tevatron combined 1.96 TeV ($L \leq 8.8 \text{ fb}^{-1}$)
- CMS $e\mu^*$ 5.02 TeV ($L = 26 \text{ pb}^{-1}$)
- 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 ($L = 2.2 \text{ fb}^{-1}$)
- ▲ ATLAS $ee/\mu\mu^*$ 13 TeV ($L = 85 \text{ pb}^{-1}$)
- ATLAS $l+\text{jets}^*$ 13 TeV ($L = 85 \text{ pb}^{-1}$)
- △ CMS $l+\text{jets}^*$ 13 TeV ($L = 2.3 \text{ fb}^{-1}$)
- CMS all-jets* 13 TeV ($L = 2.53 \text{ fb}^{-1}$)

* Preliminary

10^3

10^2

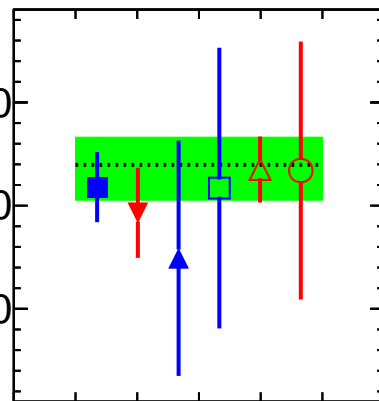
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— NNLO+NNLL (pp)

— NNLO+NNLL ($p\bar{p}$)

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

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



900

800

700

13

\sqrt{s} [TeV]

2

4

6

8

10

12

14

\sqrt{s} [TeV]