

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

ATLAS+CMS Preliminary

Mar 2016

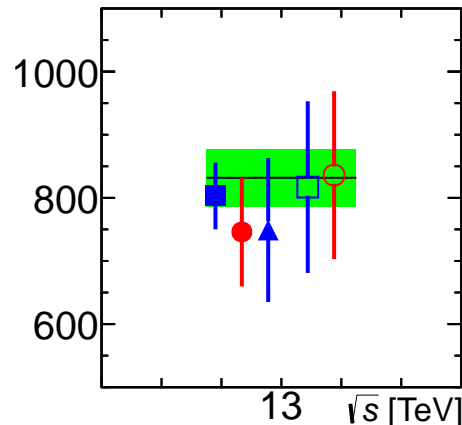
LHC $t\bar{t}$ PWG

- ▽ Tevatron combined 1.96 TeV ($L = 8.8 \text{ fb}^{-1}$)
- 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 ($L = 43 \text{ pb}^{-1}$)
- ▲ 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

$m_{\text{top}} = 172.5 \text{ GeV}$, PDF \oplus α_s uncertainties according to PDF4LHC



10^3

10^2

10

2

4

6

8

10

12

14

\sqrt{s} [TeV]