

ATLAS+CMS Preliminary $\sigma_{t\bar{t}}$ summary, $\sqrt{s} = 8$ TeV

..... NNLO+NNLL (Top++ 2.0), PDF4LHC

Tevatron+LHC $m_{\text{top}} = 173.34$ GeV

■ scale uncertainty

■ scale \oplus PDF \oplus α_S uncertainty

— stat. uncertainty

— total uncertainty

$$\sigma_{t\bar{t}} \pm(\text{stat}) \pm(\text{syst}) \pm(\text{lumi})$$

ATLAS, dilepton $e\mu$

arXiv:1406.5375, $L_{\text{int}} = 20.3 \text{ fb}^{-1}$



$241.8 \pm 1.7 \pm 5.5 \pm 7.5 \text{ pb}$

CMS, dilepton $e\mu$

JHEP02 (2014) 024, $L_{\text{int}} = 5.3 \text{ fb}^{-1}$



$237.2 \pm 2.6 \pm 11.9 \pm 6.2 \text{ pb}$

LHC combined $e\mu$ (Sep 2014)

CMS-PAS TOP-14-016,

ATLAS-CONF-2014-054,

$L_{\text{int}} = 5.3\text{-}20.3 \text{ fb}^{-1}$



$240.6 \pm 1.4 \pm 5.7 \pm 6.2 \text{ pb}$

Effect of LHC beam energy uncertainty: 4.2 pb
(not included in the figure)

100 150 200 250 300 350 400

$\sigma_{t\bar{t}}$ [pb]