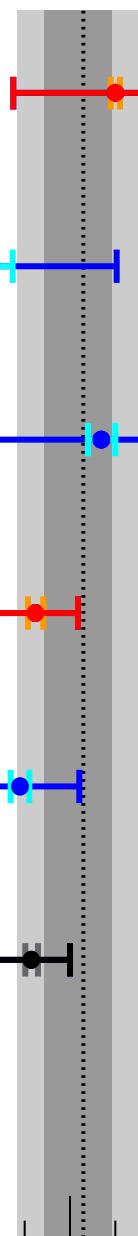


..... NNLO+NNLL (Top++ 2.0), PDF4LHC
 $m_{top} = 172.5$ GeV
 scale uncertainty
 scale \oplus PDF $\oplus \alpha_S$ uncertainty

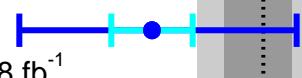
stat. uncertainty
 total uncertainty
 $\sigma_{\bar{t}t} \pm (\text{stat}) \pm (\text{syst}) \pm (\text{lumi})$

ATLAS, lepton+jets

arXiv:1504.04251, $L_{int}=20.3$ fb $^{-1}$ 

$$260 \pm 1^{+20}_{-21} \pm 8 \text{ pb}$$

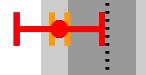
CMS prel., lepton+jets

CMS-PAS TOP-12-006, $L_{int}=2.8$ fb $^{-1}$ 

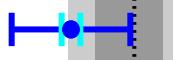
$$228 \pm 9^{+29}_{-26} \pm 10 \text{ pb}$$

CMS, lepton+ τ_h PLB 739 (2014) 23, $L_{int}=19.6$ fb $^{-1}$ 

$$257 \pm 3 \pm 24 \pm 7 \text{ pb}$$

ATLAS, dilepton e μ EPJ C74 (2014) 3109, $L_{int}=20.3$ fb $^{-1}$ 

$$242.4 \pm 1.7 \pm 5.5 \pm 7.5 \text{ pb}$$

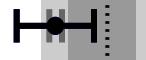
CMS, dilepton (ee, $\mu\mu$, e μ)JHEP 02 (2014) 024, $L_{int}=5.3$ fb $^{-1}$ 

$$239.0 \pm 2.1 \pm 11.3 \pm 6.2 \text{ pb}$$

LHC combined e μ (Sep 2014)

CMS-PAS TOP-14-016,

ATLAS-CONF-2014-053,

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

$$\mathbf{241.5 \pm 1.4 \pm 5.7 \pm 6.2 \text{ pb}}$$

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



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