

ATLAS+CMS Preliminary LHCtopWG

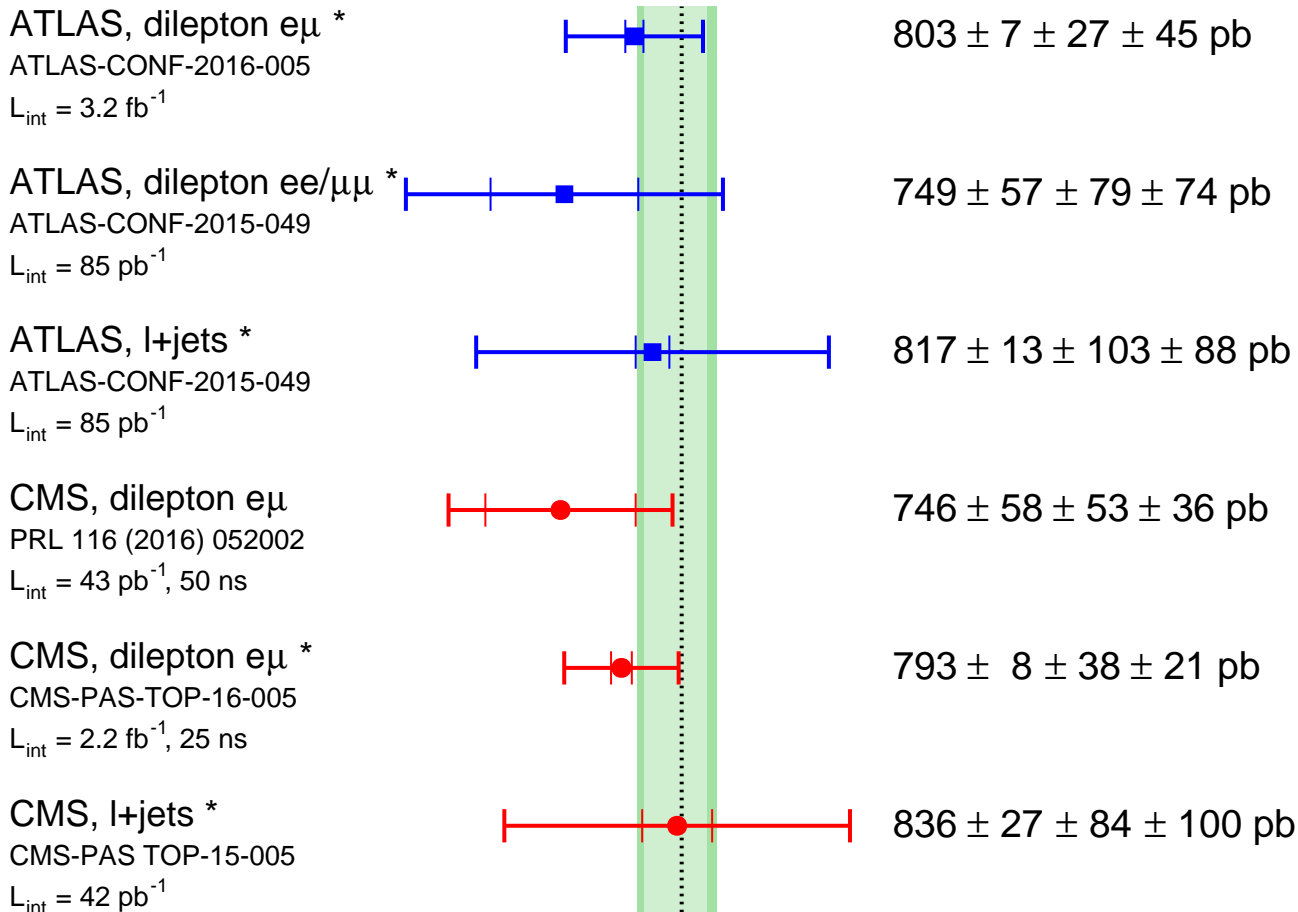
$\sigma_{t\bar{t}}$ summary, $\sqrt{s} = 13$ TeV

May 2016

NNLO+NNLL PRL 110 (2013) 252004
 $m_{\text{top}} = 172.5$ GeV, $\alpha_s(M_Z) = 0.118 \pm 0.001$

■ scale uncertainty
 ■ scale \oplus PDF \oplus α_s uncertainty

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



* Preliminary

Effect of LHC beam energy uncertainty: 12 pb (not included in the figure)

NNPDF3.0 JHEP 04 (2015) 040

MMHT14 EPJ C75 (2015) 5

CT14 PRD 93 (2016) 033006

ABM12 PRD 89 (2015) 054028
 $[\alpha_s(M_Z) = 0.113]$

400

600

800

1000

1200

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