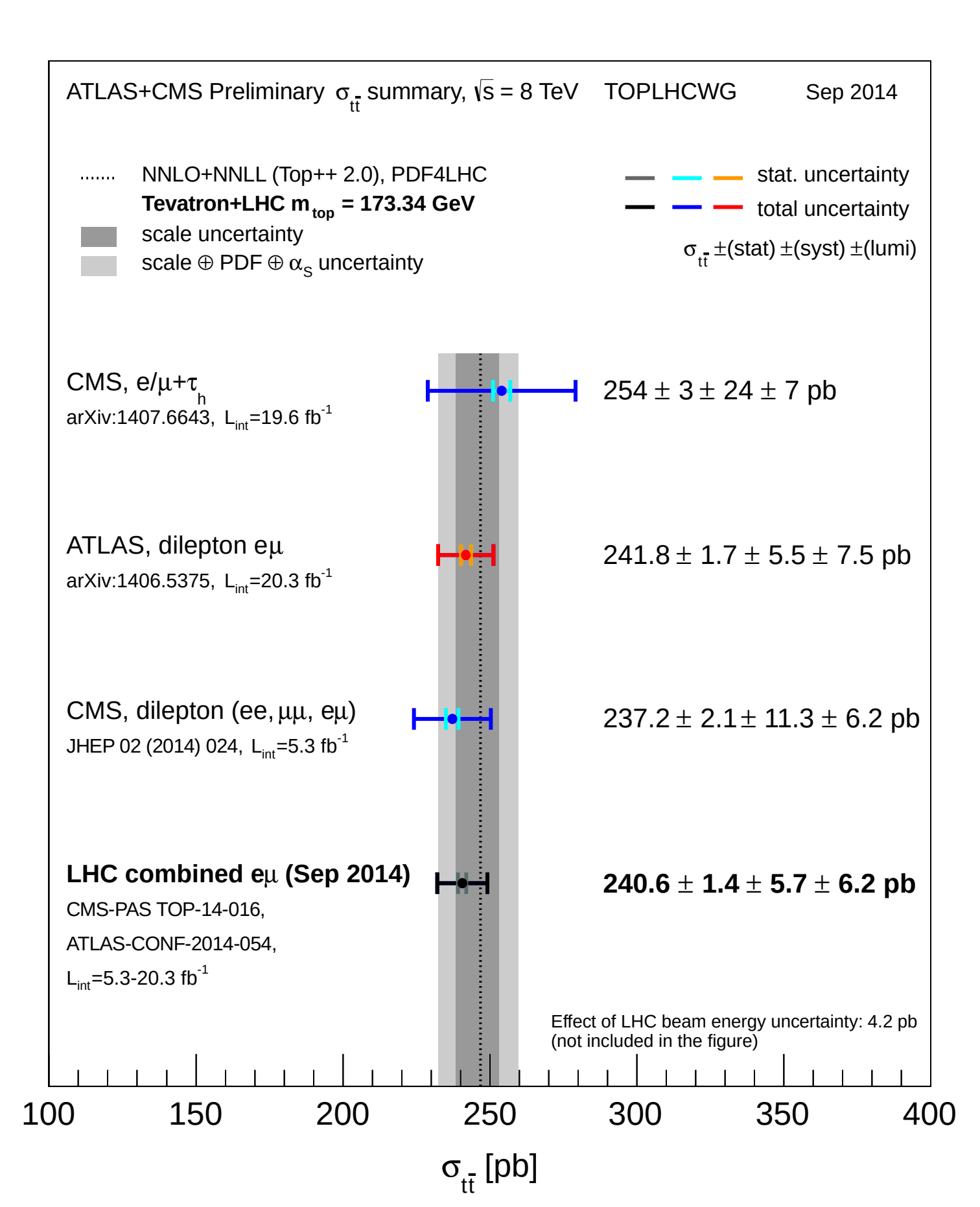
ATLAS+CMS Preliminary $\sigma_{t\bar{t}}$ summary, $\sqrt{s}$ = 8 TeV
TOPLHCWG
Sep 2014
NNLO+NNLL (Top++ 2.0), PDF4LHC
Tevatron+LHC m_{top} = 173.34 GeV
scale uncertainty
scale ⊕ PDF ⊕ α_S uncertainty
stat. uncertainty
total uncertainty
$\sigma_{t\bar{t}}$ ±(stat) ±(syst) ±(lumi)
CMS, e/μ+τ_h
arXiv:1407.6643, L_{int}=19.6 fb^{-1}
254 ± 3 ± 24 ± 7 pb
ATLAS, dilepton eμ
arXiv:1406.5375, L_{int}=20.3 fb^{-1}
241.8 ± 1.7 ± 5.5 ± 7.5 pb
CMS, dilepton (ee, μμ, eμ)
JHEP 02 (2014) 024, L_{int}=5.3 fb^{-1}
237.2 ± 2.1 ± 11.3 ± 6.2 pb
LHC combined eμ (Sep 2014)
CMS-PAS TOP-14-016,
ATLAS-CONF-2014-054,
L_{int}=5.3-20.3 fb^{-1}
240.6 ± 1.4 ± 5.7 ± 6.2 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]