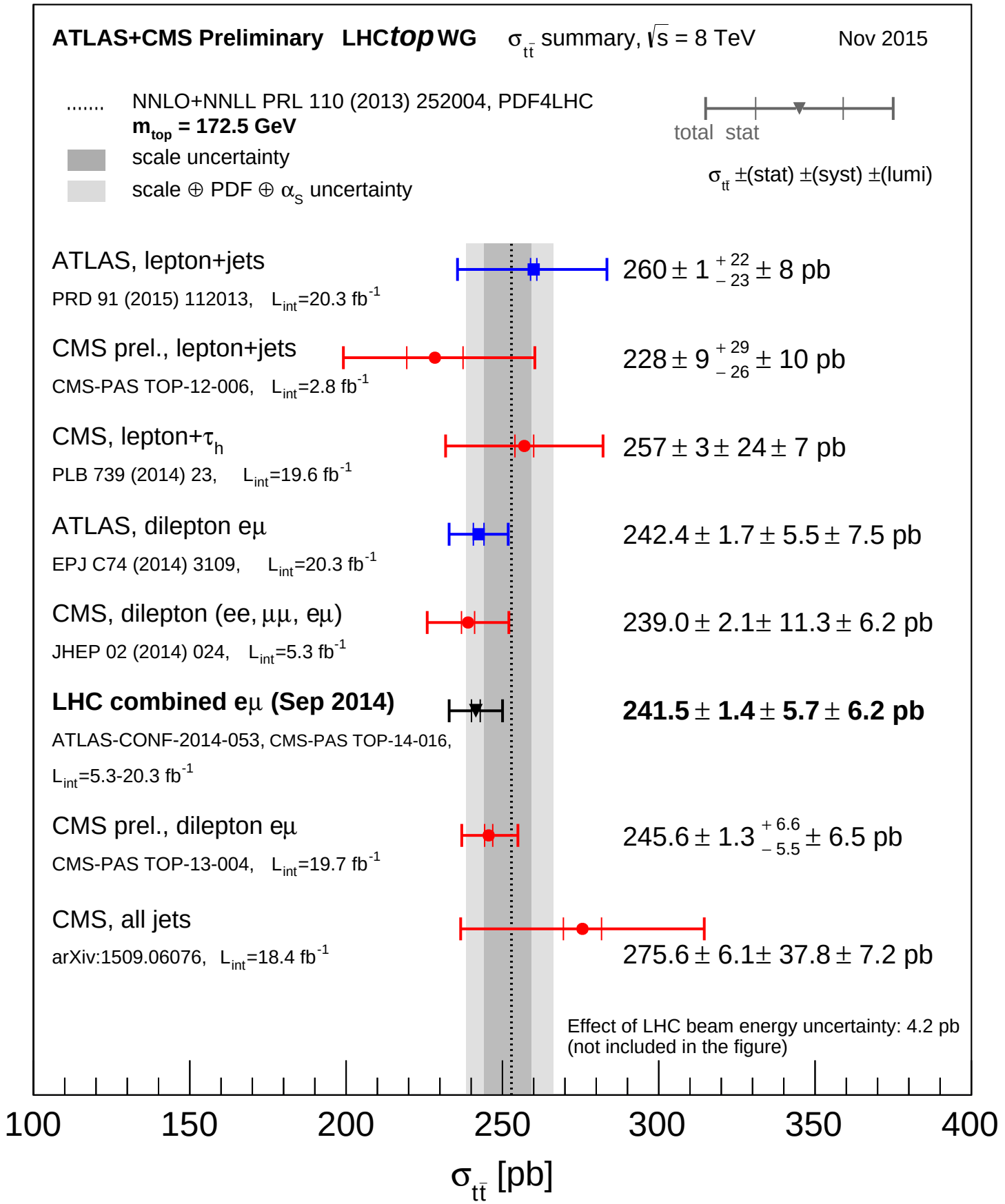
ATLAS+CMS Preliminary LHCtopWG σtt̄ summary, √s = 8 TeV Nov 2015
NNLO+NNLL PRL 110 (2013) 252004, PDF4LHC
mtop = 172.5 GeV
scale uncertainty
scale ⊕ PDF ⊕ αS uncertainty
total stat
σtt̄ ±(stat) ±(syst) ±(lumi)
ATLAS, lepton+jets
PRD 91 (2015) 112013, Lint=20.3 fb-1
260 ± 1 +22 −23 ± 8 pb
CMS prel., lepton+jets
CMS-PAS TOP-12-006, Lint=2.8 fb-1
228 ± 9 +29 −26 ± 10 pb
CMS, lepton+τh
PLB 739 (2014) 23, Lint=19.6 fb-1
257 ± 3 ± 24 ± 7 pb
ATLAS, dilepton eμ
EPJ C74 (2014) 3109, Lint=20.3 fb-1
242.4 ± 1.7 ± 5.5 ± 7.5 pb
CMS, dilepton (ee, μμ, eμ)
JHEP 02 (2014) 024, Lint=5.3 fb-1
239.0 ± 2.1 ± 11.3 ± 6.2 pb
LHC combined eμ (Sep 2014)
ATLAS-CONF-2014-053, CMS-PAS TOP-14-016,
Lint=5.3-20.3 fb-1
241.5 ± 1.4 ± 5.7 ± 6.2 pb
CMS prel., dilepton eμ
CMS-PAS TOP-13-004, Lint=19.7 fb-1
245.6 ± 1.3 +6.6 −5.5 ± 6.5 pb
CMS, all jets
arXiv:1509.06076, Lint=18.4 fb-1
275.6 ± 6.1 ± 37.8 ± 7.2 pb
Effect of LHC beam energy uncertainty: 4.2 pb
(not included in the figure)
100
150
200
250
300
350
400
σtt̄ [pb]