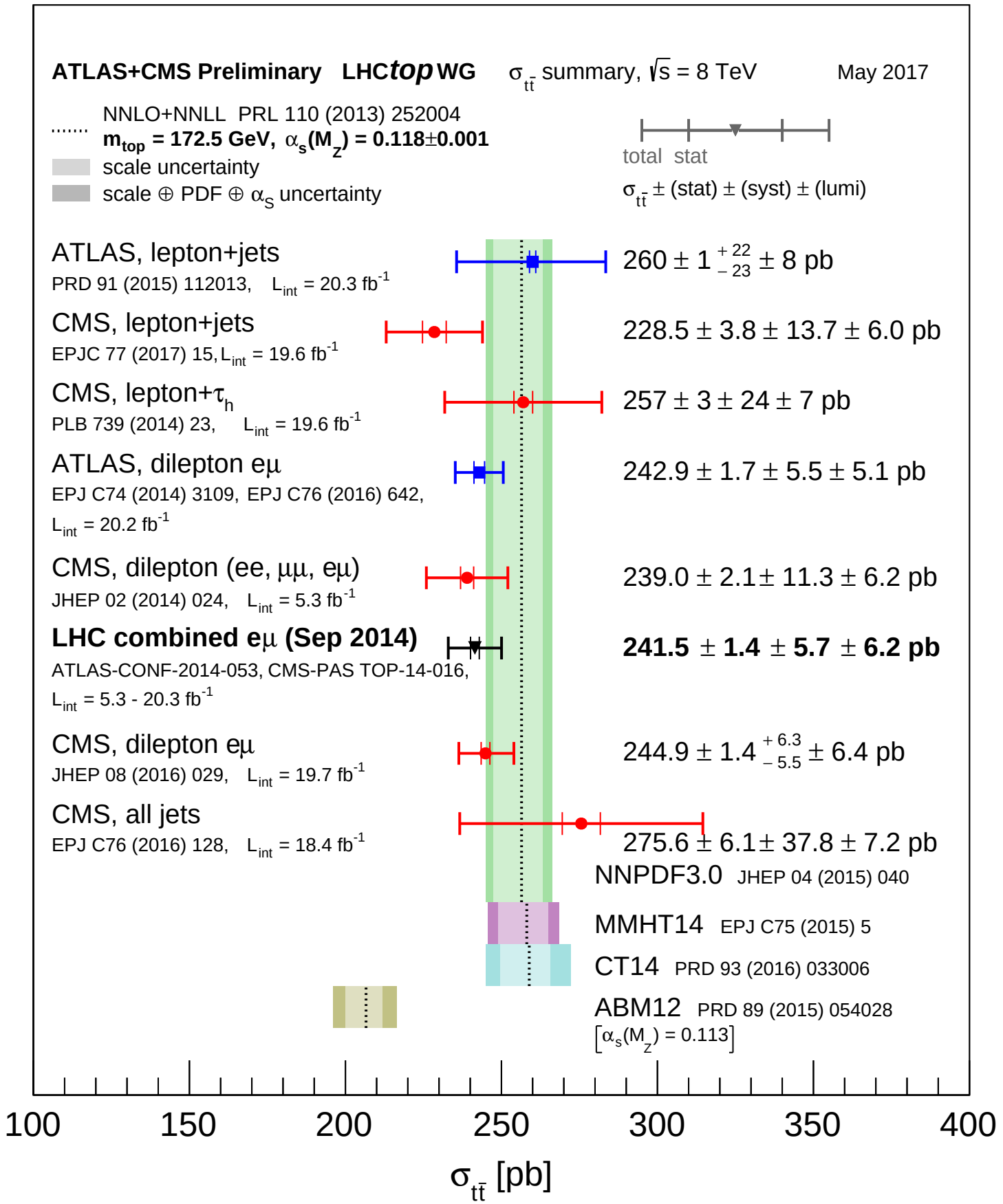
ATLAS+CMS Preliminary LHCtopWG
σtt̄ summary, √s = 8 TeV
May 2017
NNLO+NNLL PRL 110 (2013) 252004
mtop = 172.5 GeV, αs(MZ) = 0.118±0.001
scale uncertainty
scale ⊕ PDF ⊕ αS uncertainty
total stat
σtt̄ ± (stat) ± (syst) ± (lumi)
ATLAS, lepton+jets
PRD 91 (2015) 112013, Lint = 20.3 fb-1
260 ± 1 +22 −23 ± 8 pb
CMS, lepton+jets
EPJC 77 (2017) 15, Lint = 19.6 fb-1
228.5 ± 3.8 ± 13.7 ± 6.0 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, EPJ C76 (2016) 642,
Lint = 20.2 fb-1
242.9 ± 1.7 ± 5.5 ± 5.1 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, dilepton eμ
JHEP 08 (2016) 029, Lint = 19.7 fb-1
244.9 ± 1.4 +6.3 −5.5 ± 6.4 pb
CMS, all jets
EPJ C76 (2016) 128, Lint = 18.4 fb-1
275.6 ± 6.1 ± 37.8 ± 7.2 pb
NNPDF3.0 JHEP 04 (2015) 040
MMHT14 EPJ C75 (2015) 5
CT14 PRD 93 (2016) 033006
ABM12 PRD 89 (2015) 054028
[αs(MZ) = 0.113]
100
150
200
250
300
350
400
σtt̄ [pb]