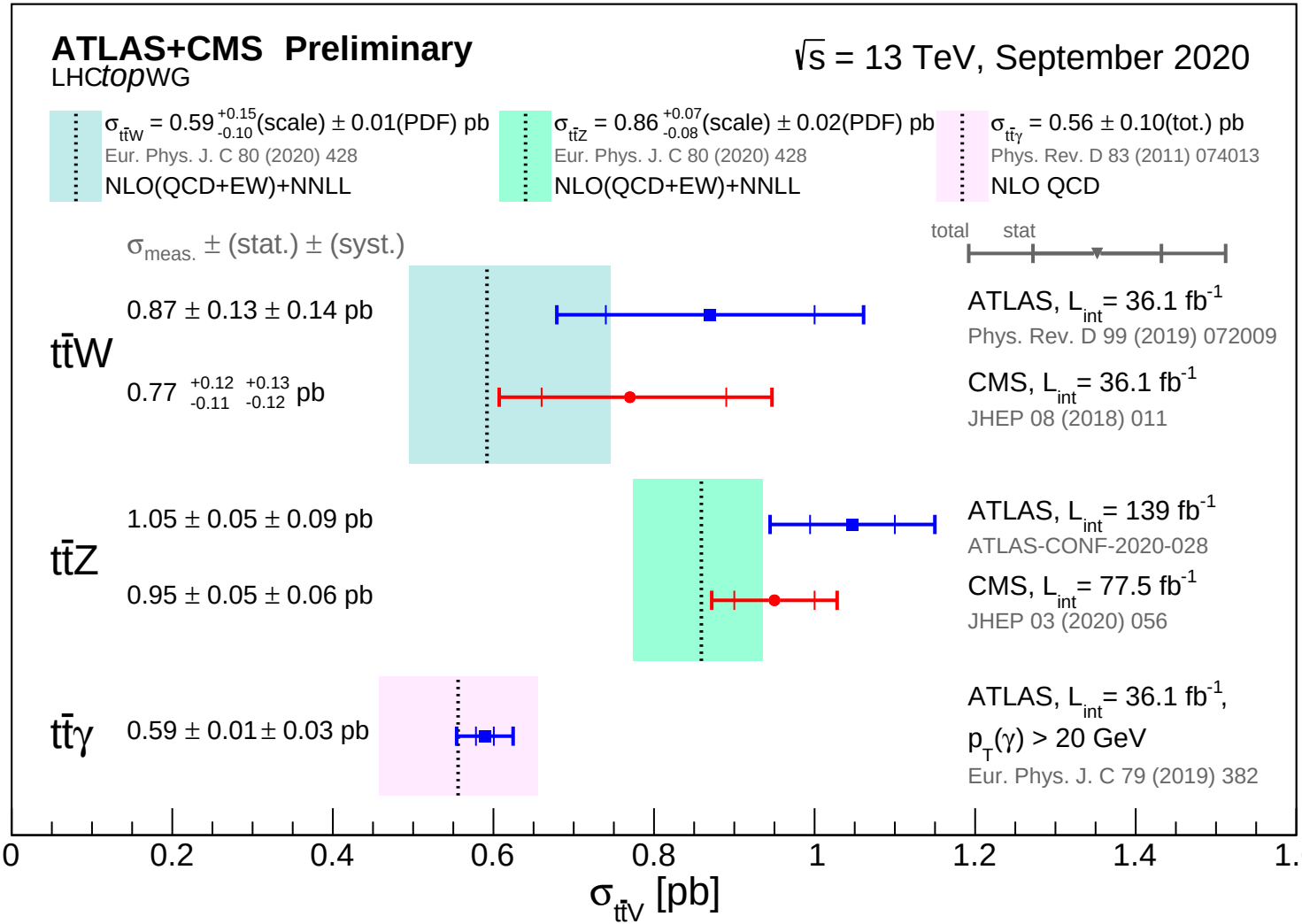
ATLAS+CMS Preliminary
LHCtopWG
√s = 13 TeV, September 2020
σttW = 0.59 +0.15 -0.10 (scale) ± 0.01(PDF) pb
Eur. Phys. J. C 80 (2020) 428
NLO(QCD+EW)+NNLL
σttZ = 0.86 +0.07 -0.08 (scale) ± 0.02(PDF) pb
Eur. Phys. J. C 80 (2020) 428
NLO(QCD+EW)+NNLL
σttγ = 0.56 ± 0.10(tot.) pb
Phys. Rev. D 83 (2011) 074013
NLO QCD
σmeas. ± (stat.) ± (syst.)
total
stat
ttW
0.87 ± 0.13 ± 0.14 pb
0.77 +0.12 -0.11 +0.13 -0.12 pb
ATLAS, Lint = 36.1 fb-1
Phys. Rev. D 99 (2019) 072009
CMS, Lint = 36.1 fb-1
JHEP 08 (2018) 011
ttZ
1.05 ± 0.05 ± 0.09 pb
0.95 ± 0.05 ± 0.06 pb
ATLAS, Lint = 139 fb-1
ATLAS-CONF-2020-028
CMS, Lint = 77.5 fb-1
JHEP 03 (2020) 056
ttγ
0.59 ± 0.01 ± 0.03 pb
ATLAS, Lint = 36.1 fb-1,
pT(γ) > 20 GeV
Eur. Phys. J. C 79 (2019) 382
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
σttV [pb]