

**ATLAS+CMS Preliminary** November 2022  
LHCtopWG



**Theory (NNLO QCD)**  
PRD 81 (2010) 111503 (R)

**Data ( $f_R/f_L/f_0$ )**

ATLAS 2011,  $\geq 1$  lepton,  $\sqrt{s}=7$  TeV,  $L_{\text{int}}=1.04 \text{ fb}^{-1}$

JHEP 1206 (2012) 088



CMS 2011 single lepton,  $\sqrt{s}=7$  TeV,  $L_{\text{int}}=5.0 \text{ fb}^{-1}$

JHEP 10 (2013) 167



**LHC combination,  $\sqrt{s}=7$  TeV** ATLAS-CONF-2013-033, CMS-PAS-TOP-12-025



CMS 2012 single top,  $\sqrt{s}=8$  TeV,  $L_{\text{int}}=19.7 \text{ fb}^{-1}$

JHEP 01 (2015) 053



CMS 2012 dilepton,  $\sqrt{s}=8$  TeV,  $L_{\text{int}}=19.7 \text{ fb}^{-1}$

PLB 762 (2016) 512



CMS 2012 single lepton,  $\sqrt{s}=8$  TeV,  $L_{\text{int}}=19.8 \text{ fb}^{-1}$

CMS-PAS-TOP-14-017



ATLAS 2012, single lepton,  $\sqrt{s}=8$  TeV,  $L_{\text{int}}=20.2 \text{ fb}^{-1}$

EPJC 77 (2017) 264



**LHC combination,  $\sqrt{s}=8$  TeV**

JHEP 08 (2020) 051



ATLAS 2022, di-lepton,  $\sqrt{s}=13$  TeV,  $L_{\text{int}}=139 \text{ fb}^{-1}$

arXiv:2209.14903

