

Inclusive  $t\bar{t}$  cross section [pb]

ATLAS+CMS Preliminary May 2021  
LHCtopWG

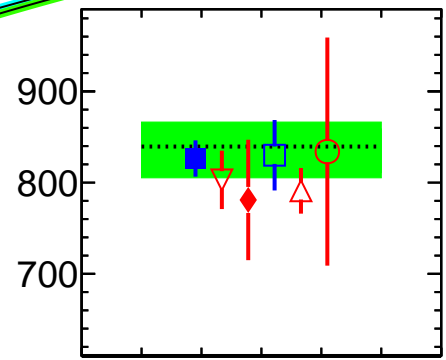
- ▽ Tevatron combined 1.96 TeV ( $L \leq 8.8 \text{ fb}^{-1}$ )
- ATLAS dilepton\* 5.02 TeV ( $L = 257 \text{ pb}^{-1}$ )
- CMS combined  $e\mu, l+jets^*$  5.02 TeV ( $L = 27.4-304 \text{ pb}^{-1}$ )
- ATLAS  $e\mu$  7 TeV ( $L = 4.6 \text{ fb}^{-1}$ )
- CMS  $e\mu$  7 TeV ( $L = 5 \text{ fb}^{-1}$ )
- ATLAS  $e\mu$  8 TeV ( $L = 20.2 \text{ fb}^{-1}$ )
- CMS  $e\mu$  8 TeV ( $L = 19.7 \text{ fb}^{-1}$ )
- ▼ LHC combined  $e\mu$  8 TeV ( $L = 5.3-20.3 \text{ fb}^{-1}$ ) LHCtopWG
- ATLAS  $e\mu$  13 TeV ( $L = 36.1 \text{ fb}^{-1}$ )
- ▽ CMS  $e\mu$  13 TeV ( $L = 35.9 \text{ fb}^{-1}$ )
- ◆ CMS  $\tau+e/\mu$  13 TeV ( $L = 35.9 \text{ fb}^{-1}$ )
- ATLAS  $l+jets$  13 TeV ( $L = 139 \text{ fb}^{-1}$ )
- △ CMS  $l+jets^*$  13 TeV ( $L = 137 \text{ fb}^{-1}$ )
- CMS all-jets\* 13 TeV ( $L = 2.53 \text{ fb}^{-1}$ )

\* Preliminary

— NNLO+NNLL (pp)  
— NNLO+NNLL ( $p\bar{p}$ )

Czakon, Fiedler, Mitov, PRL 110 (2013) 252004

NNPDF3.0,  $m_{top} = 172.5 \text{ GeV}$ ,  $\alpha_s(M_Z) = 0.118 \pm 0.001$



$10^3$   
 $10^2$   
10

2 4 6 8 10 12 14  
 $\sqrt{s}$  [TeV]