

13000 GeV pp

 $t\bar{t}$ Parton-level  $t\bar{t}$  invariant mass,  $|y^{t,1}| \in [0.2, 0.5]$  $1/\sigma \# \text{cdot} \# \text{d}^2\sigma / \text{d}y^{t,1} \text{d}m^{t\bar{t}} \# \{\text{TeV}\}^{-1}$ Rivet 4.1.0,  $\geq 100\text{k events}$ 

mcplots.cern.ch [arXiv:2401.10621]

(ATLAS\_2022\_I2077575)

- ATLAS
- Pythia 6.426 default
- ★- Pythia 6.426 pro-q2o

Ratio to ATLAS

2  
1  
0.52  
1  
0.5 $m^{t\bar{t}} \# \{\text{TeV}\}$ 