

13000 GeV pp

 $t\bar{t}$ Parton-level $t\bar{t}$ transverse momentum, $|y| \in [0.2, 0.5]$

■ ATLAS

▲ Pythia 8.315 default

— Pythia 8.315 tune-A14-CTEQL1

- - - Pythia 8.315 tune-A14-MSTW2008LO

⋯ Pythia 8.315 tune-A14-NNPDF2.3LO

- - Δ Pythia 8.315 tune-CUETP8S1

 $1 / \sigma \# \# \text{cdot} \# \text{d}^2 \sigma / \text{d} |y| \text{d} p_{\text{T}}^{\text{t}\bar{\text{t}}} \# \{ \{ \text{TeV} \}^{-1} \}$

10

1

 10^{-1}

(ATLAS_2022_I2077575)

Rivet 4.1.0, $\geq 100\text{k events}$

mcplots.cern.ch [arXiv:2401.10621]

Ratio to ATLAS

2

1

0.5

2

1

0.5

 $p_{\text{T}}^{\text{t}\bar{\text{t}}} \# \{ \{ \text{TeV} \}$

1

0.5

0