

13000 GeV pp

 $t\bar{t}$ Particle-level $t\bar{t}$ invariant mass, $|y^{t\bar{t}}| \in [0.5, 1]$ Rivet 4.1.0, $\geq 100k$ events

mcplots.cern.ch [arXiv:2401.10621]

 $1/\sigma \# \text{cdot} \# d^2\sigma / d|y^{t\bar{t}}| dm^{t\bar{t}} \# [\text{TeV}^{-1}]$ 10^{-1}

10

■

ATLAS

▲

Pythia 8.315 default

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Pythia 8.315 tune-A14-CTEQL1

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Pythia 8.315 tune-A14-MSTW2008LO

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Pythia 8.315 tune-A14-NNPDF2.3LO

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Pythia 8.315 tune-CUETP8S1

(ATLAS_2022_I2077575)

Ratio to ATLAS

0.5

2

2

1

1

0.5

 $m^{t\bar{t}} \# [\text{TeV}]$

1

2

3

4