

13000 GeV pp

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

■ ATLAS

---○ Herwig++ 2.7.1 default

---□ Herwig 7.2.1 default

...♦ Sherpa 2.2.4 default

 $1/\sigma \cdot \frac{d^2\sigma}{dp_{T,t\bar{t}} dy} \cdot \frac{d^2\sigma}{d^2p_{T,t\bar{t}} dy} \cdot \frac{d^2\sigma}{d^2p_{T,t\bar{t}} dy} \cdot \frac{d^2\sigma}{d^2p_{T,t\bar{t}} dy}$

12

10

8

6

4

2

0

Rivet 4.1.0, $\geq 100k$ events

mcplots.cern.ch [arXiv:2401.10621]

(ATLAS_2022_12077575)

Ratio to ATLAS

2

1

0.5

2

1

0.5

 $p_{T,t\bar{t}} \text{ [TeV]}$

0

0.5

1