

13000 GeV pp

 $t\bar{t}$ Parton-level $t\bar{t}$ invariant mass, $p_{T}^{t\bar{t}} \in [0, 0.1] \text{ # TeV}$

- ATLAS
- Herwig++ 2.7.1 default
- Herwig 7.2.1 default
- ▲- Pythia 8.201 default
- ◆- Sherpa 2.2.4 default

 $d^2\sigma / dp_{T}^{t\bar{t}} dm_{t\bar{t}}^2 \text{ # fb # TeV}^{-2}$ 10^5 10^4 10^3 Rivet 4.1.0, $\geq 100k$ events

mcplots.cern.ch [arXiv:1306.3436]

(ATLAS_2022_I2077575)

Ratio to ATLAS

2

1

0.5

2

1

0.5

 $m_{t\bar{t}} \text{ # TeV}$

1

2

3

4