

7000 GeV pp

Underlying Event

Toward N_{chg} density vs. p_T^{trk1} , $\sqrt{s} = \{7 \text{ TeV}\}$, $p_T > \{100 \text{ MeV}\}$

- ATLAS
- +— Epos 1.99.crmc.1.6.0 lh
- - - □ Herwig 7.2.1 default
- - - △ Pythia 6.428 370
- - - ▲ Pythia 8.244 default
- - - ◆ Sherpa 2.2.9 default

Rivet 4.1.0, $\geq 100k$ events

mcplots.cern.ch [arXiv:1306.3436]

(ATLAS_2010_I879407)

Ratio to ATLAS

2

1

0.5

 p_T (leading track) [GeV] $\# \langle d^2 N_{\text{chg}} / d\eta d\phi \rangle$ 7
6
5
4
3
2
1
0
2
1
0.5