

7000 GeV pp

Underlying Event

Sum( $p_T$ ) Density (TRNS) ( $|\eta| < 2.5$ ,  $p_T > 0.5$  GeV)

- ATLAS
- Herwig++ 2.5.2 default
- Herwig 7.2.0 default
- ◇- Sherpa 2.1.1 default

Rivet 3.1.0,  $\geq 5.4$ M events

mcplots.cern.ch [arXiv:1306.3436]

ATLAS\_2010\_S8894728

 $\langle d^2 \text{sum } p_T / d\eta d\phi \rangle$  [GeV]2.5  
2  
1.5  
1  
0.5  
02  
1  
0.5

Ratio to ATLAS

2  
1  
0.52  
1  
0.50 5 10 15 20  
 $p_T$  (leading track) [GeV]