

7000 GeV pp

Underlying Event

## Average Charged Particle Density (TRNS) (NSD)

- CMS
- - □ Herwig 7.1.4 default
- - ▲ Pythia 8.201 default
- - ◆ Sherpa 2.1.1 default

 $\langle d^2 N / d\eta d\phi \rangle$ 7  
6  
5  
4  
3  
2  
1  
0Rivet 3.1.0,  $\geq 7.3M$  events  
mcplots.cern.ch [arXiv:1306.3436]

CMS\_2011\_S9120041

Ratio to CMS

2  
1  
0.52  
1  
0.50 50 100  
 $p_T$  (leading track-jet) [GeV]