

7000 GeV pp

Soft QCD

Charged Particles Distribution ( $N_{\text{ch}} > 20, p_{\text{T}} > 0.1 \text{ GeV}$ )

- ATLAS
- Herwig 7.2.0 default
- ▲ Pythia 8.186 default
- ◆ Sherpa 1.4.1 default

 $1/N_{\text{ev}} dN_{\text{ch}}/d\eta$ 

20  
18  
16  
14  
12  
10  
8  
6  
4  
2  
0.5

Rivet 3.1.0,  $\geq 5.4\text{M}$  events

mcplots.cern.ch [arXiv:1306.3436]

ATLAS\_2010\_S8918562

Ratio to ATLAS

2  
1  
0.5 $\eta$ 