

900 GeV pp

Soft QCD

Charged Particle  $\eta$  Distribution ( $N_{\text{ch}} > 0, |\eta| < 2.5, p_T > 0.5 \text{ GeV}$ )

- ATLAS
- Herwig 7.2.1 default
- △-- Pythia 6.428 370
- ▲-- Pythia 8.170 default
- ...◆... Sherpa 2.2.9 default

Rivet 3.1.10,  $\geq 400\text{k events}$ 

mcplots.cern.ch [arXiv:1306.3436]

ATLAS\_2010\_S8591806

Ratio to ATLAS

2

1

0.5

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

2.5  
2  
1.5  
1  
0.5

2  
1  
0.5

-2

0

2