

13000 GeV pp

Z (Drell-Yan)

Average  $\Sigma(p_T)$  (ATLAS UE in Z production)

- ATLAS
- MadGraph5 2.7.2.atlas3 lo
- -○ MadGraph5 2.7.2.atlas3 lo1jet
- ⋯○ MadGraph5 2.7.2.atlas3 lo2jet

 $\langle \text{sum } p_{T, \text{dn}} d\phi \rangle$  [GeV]8  
7  
6  
5  
4  
3  
2  
1  
0Rivet 3.1.10,  $\geq 3.1\text{M}$  events

mcplots.cern.ch [arXiv:1306.3436]

ATLAS\_2019\_I1736531

Ratio to ATLAS

2  
1  
0.52  
1  
0.50 200 400  
 $Z p_T$  [GeV]