

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

Rivet 3.1.10,  $\geq 2.4$ M events

mcplots.cern.ch [arXiv:1306.3436]

ATLAS\_2019\_I1736531

 $\langle \text{sum } p_{T,i} / d\eta d\phi \rangle$  [GeV]

Ratio to ATLAS

 $Z p_T$  [GeV]