

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, $\geq 3.1M$ events

mcplots.cern.ch [arXiv:1306.3436]

ATLAS_2019_I1736531

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

Ratio to ATLAS

 $Z p_T$ [GeV]