

13000 GeV pp

Z (Drell-Yan)

 $\langle N_{\text{ch}} \rangle$  vs  $p_{\text{T}}^{\text{Z}}$  (ATLAS UE in Z production)

ATLAS

mcplots.cern.ch [arXiv:1306.3436]

(ATLAS\_2019\_I1736531)

Ratio to ATLAS

 $Z p_{\text{T}}$  [GeV]