

13000 GeV pp

Z (Drell-Yan)

Scalar  $\Sigma(p_T)$  (ATLAS UE in Z production) $1/N_{\text{ev}} dN_{\text{ev}}/d \text{ mean } p_T [\text{GeV}]^{-1}$ 

ATLAS

(ATLAS\_2019\_I1736531)

Ratio to ATLAS

mcplots.cern.ch [arXiv:1306.3436]

Mean  $p_T/d\eta d\phi$ 