

13000 GeV pp

Z (Drell-Yan)

 $p_{\perp}^{\parallel}$ (CMS Z production) $d\sigma/dp_{\perp}^Z$ [pb/GeV]

25

20

15

10

5

0



CMS



Herwig 7.2.1 default



MadGraph5 2.7.2.atlas3 lo



Pythia 8.308 default



Sherpa 2.2.9 default

CMS_2019_04_753680

Ratio to CMS

2

1

0.5

1

10

 10^2 $p_{\perp}^Z$ [GeV] 10^3 Rivet 3.1.10, ≥ 2.4 M events

mcplots.cern.ch [arXiv:1306.3436]

2

1

0.5