

13000 GeV pp

Z (Drell-Yan)

CMS, 13 TeV, $Z\gamma^* \rightarrow \ell\ell^+ \ell\ell^-$, $350 < m_{\ell\ell} < 1000$ GeV

■ CMS

— Pythia 8.308 CP5

Ratio $\rightarrow$ Z peak region 10^{-2} 10^{-3} 10^{-4}

(CMS_2022_I2079374)

Rivet 4.1.0, 1.2M events

mcplots.cern.ch [arXiv:2401.10621]

Ratio to CMS

2

1

0.5

2

1

0.5

 $p_T(\ell\ell)$ [GeV]

0

500

1000