

13000 GeV pp

Z (Drell-Yan)

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

Ratio $\rightarrow$ Z peak region

■ CMS
—△ Pythia 6.428 370
- -□ Pythia 6.428 391
- -■ Pythia 6.428 default
—▲ Pythia 8.165 default

 10^{-2} 10^{-3} 10^{-4}

(CMS_2022_I2079374)

Rivet 4.1.0, $\geq 400k$ events

mcplots.cern.ch [arXiv:2401.10621]

Ratio to CMS

2

1

0.5

2

1

0.5

 ϕ_η^*