

Relative Uncertainty

**ATLAS** Work in progress

$\sqrt{s} = 13 \text{ TeV}, 140 \text{ fb}^{-1}$

QCDZGAMMATHEORYSYSTS

PDF Uncertainty

QCD Gen.: QCD\_Sh2211

— RMS of PDF Variations

Three CR Fit, Data

0.0012

0.001

0.0008

0.0006

0.0004

-3

-2

-1

0

1

2

3

$\Delta\phi_{\text{signed}}$   
 $\Delta\phi_{\text{hy}}$