

Relative Uncertainty

ATLAS Work in progress

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

QCDZGAMMATHEORYSYSTS

Scale Uncertainty

QCD Gen.: QCD_Sh2211

$$\text{Rel. Unc.} = \frac{\max(\Delta\phi_{\text{hy}}^{\text{signed}}(\mu_{\text{R},1}, \mu_{\text{F},1}) - \Delta\phi_{\text{hy}}^{\text{signed}}(\mu_{\text{R},i}, \mu_{\text{F},i}))}{\Delta\phi_{\text{hy}}^{\text{signed}}(\mu_{\text{R},1}, \mu_{\text{F},1})}$$

— Uncertainty Envelope

Three CR Fit, Data

0.01
0.005
0
-0.005
-0.01
-0.015
-0.02
-0.025
-0.03

-3 -2 -1 0 1 2 3

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