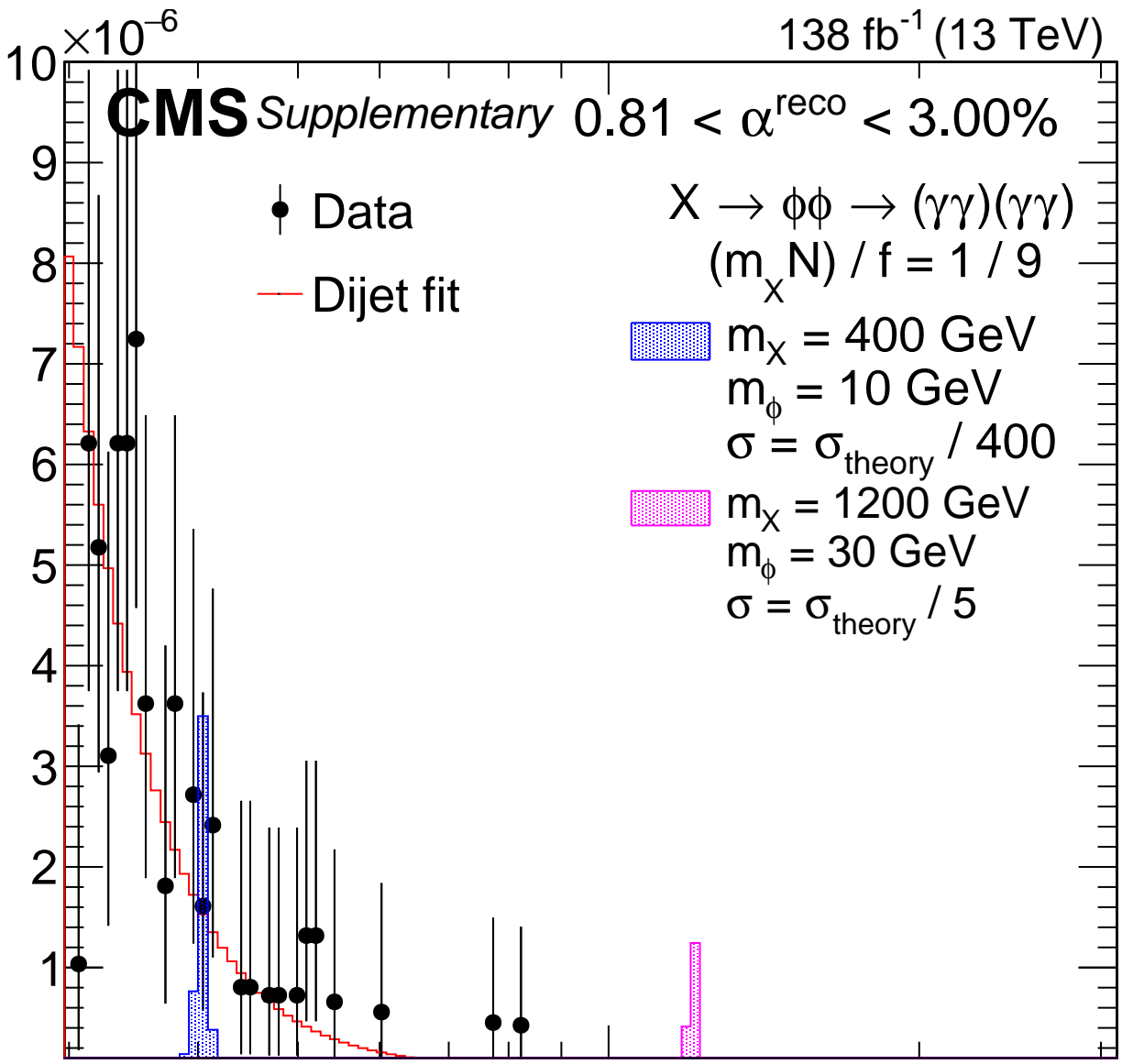


138 fb⁻¹ (13 TeV)



CMS Supplementary 0.81 < α^{reco} < 3.00%

$d\sigma/dm_{\Gamma\Gamma}$ [pb/GeV]

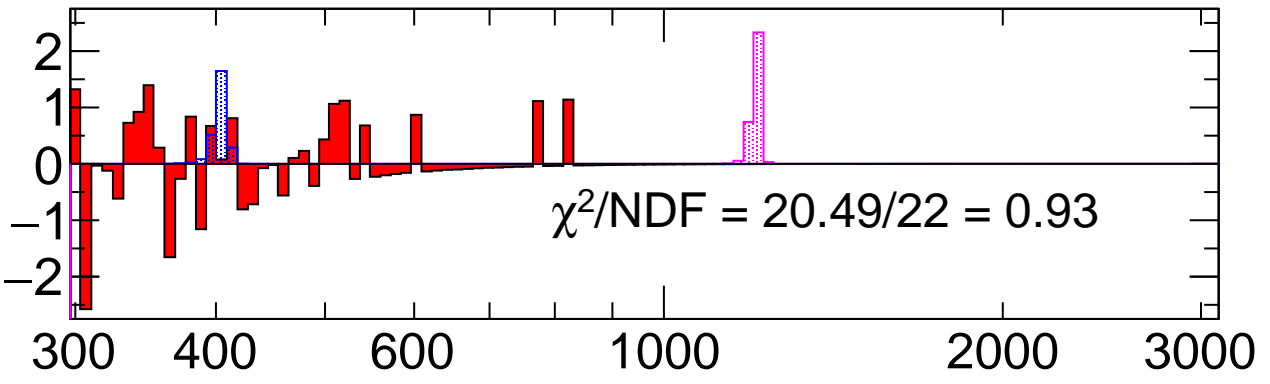


• Data
— Dijet fit

$X \rightarrow \phi\phi \rightarrow (\gamma\gamma)(\gamma\gamma)$
($m_X N$) / f = 1 / 9

 $m_X = 400$ GeV
 $m_\phi = 10$ GeV
 $\sigma = \sigma_{\text{theory}} / 400$
 $m_X = 1200$ GeV
 $m_\phi = 30$ GeV
 $\sigma = \sigma_{\text{theory}} / 5$

(Data-Fit) / Uncertainty



$\chi^2/\text{NDF} = 20.49/22 = 0.93$

$m_{\Gamma\Gamma}$ [GeV]