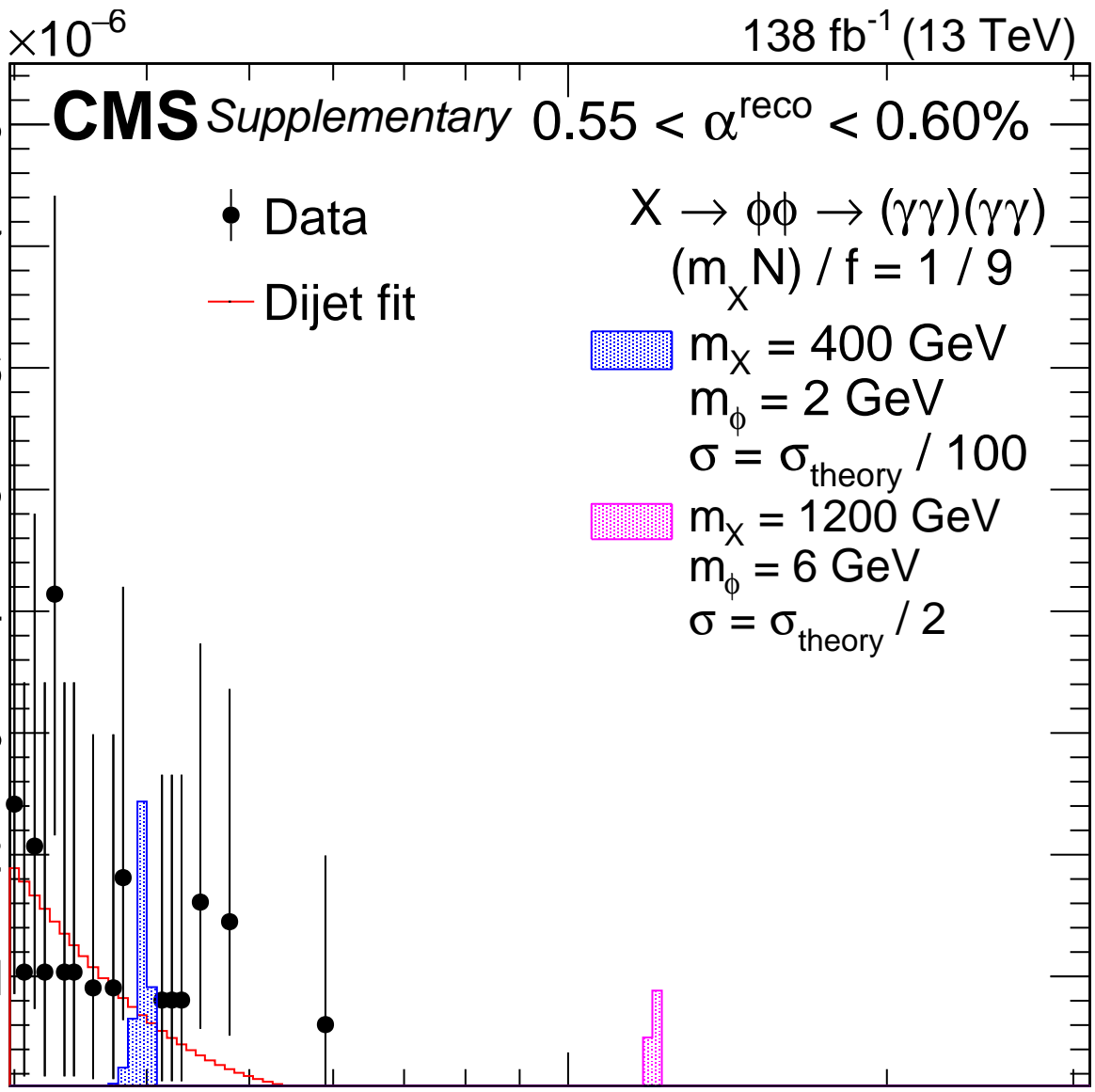


138 fb<sup>-1</sup> (13 TeV)

**CMS** *Supplementary*  $0.55 < \alpha^{\text{reco}} < 0.60\%$

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

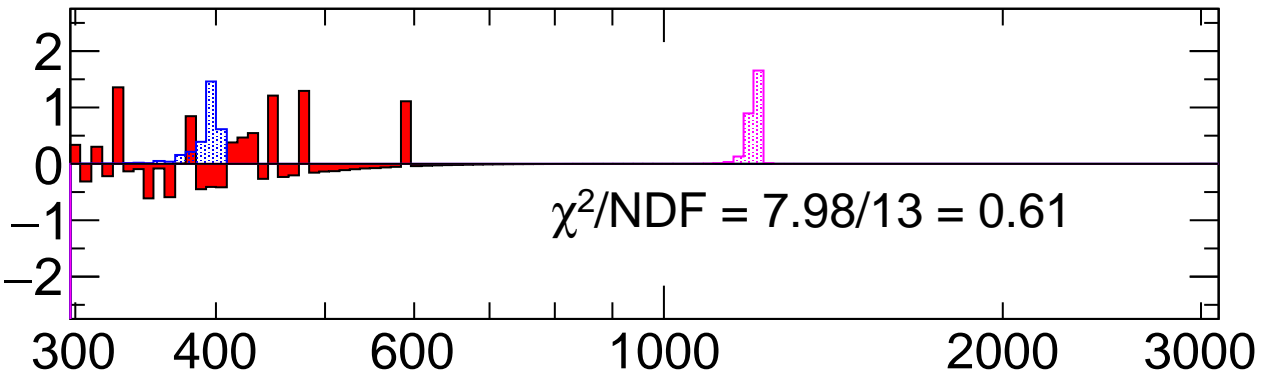


• Data  
— Dijet fit

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

$m_X = 400$  GeV  
 $m_\phi = 2$  GeV  
 $\sigma = \sigma_{\text{theory}} / 100$   
 $m_X = 1200$  GeV  
 $m_\phi = 6$  GeV  
 $\sigma = \sigma_{\text{theory}} / 2$

$\frac{\text{(Data-Fit)}}{\text{Uncertainty}}$



$\chi^2/\text{NDF} = 7.98/13 = 0.61$

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