

CMS Work in progress

13 TeV (36.3 fb⁻¹)

Events


$4.00 \leq m(\gamma, \gamma) < 14.25$ GeV $14.25 \leq m(\gamma, \gamma) < 24.50$ GeV $24.50 \leq m(\gamma, \gamma) < 34.75$ GeV $34.75 \leq m(\gamma, \gamma) < 45.00$ GeV

Signal Region, $Z \rightarrow ee$ $m_\Phi = 40$ GeV

 Predicted background

 Observed

 Signal, $c\tau = 0$ mm

 Signal, $c\tau = 100$ mm

$BR(H \rightarrow \Phi\Phi) \times BR(\Phi \rightarrow \gamma\gamma) = 0.05$

