

Fiducial Acceptance (%)

$n_{\text{jets}}^{\text{reco}} = 0$

$n_{\text{jets}}^{\text{reco}} = 1$

$n_{\text{jets}}^{\text{reco}} = 2$

$n_{\text{jets}}^{\text{reco}} = 3$

$n_{\text{jets}}^{\text{reco}} \geq 4$

37.90

16.18

4.64

1.01

0.56

18.40

1.28

0.06

1.61

6.92

0.35

0.01

0.22

0.75

1.97

0.10

0.02

0.06

0.23

0.38

0.04

MADGRAPH5_aMC@NLO,
NNLOPS

0.02

0.08

0.28

$n_{\text{jets}}^{\text{gen}} = 0$

$n_{\text{jets}}^{\text{gen}} = 1$

$n_{\text{jets}}^{\text{gen}} = 2$

$n_{\text{jets}}^{\text{gen}} = 3$

$n_{\text{jets}}^{\text{gen}} \geq 4$

H \rightarrow $\gamma\gamma$
 $|\eta^j| < 2.5$
 $p_{\text{T}}^j > 30$ GeV

(%)
Signal Yield
 $\frac{\text{Signal Yield}}{\sigma(\text{pp} \rightarrow \text{H} + \text{X}) \text{BR}(\text{H} \rightarrow \gamma\gamma) \mathcal{L}_{\text{int}}}$

