

95% C.L. Limit on  $\sigma/\sigma_{\text{SM}}$

CMS Simulation

$L = 4.9 \text{ fb}^{-1} (7 \text{ TeV}) + L = 5.1 \text{ fb}^{-1} (8 \text{ TeV})$

$H \rightarrow WW \rightarrow 2l2\nu$  0/1/2 jet shape based

Signal Injection  $m_H = 125 \text{ GeV}$

- - - Median Expected

Expected  $\pm 1\sigma$

Expected  $\pm 2\sigma$

—●— Median Observed

Observed  $\pm 1\sigma$

5  
4  
3  
2  
1  
0

100

150

200

250

300

$m_H [\text{GeV}]$

0

1

2

3

4

5