

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

Events / 100 GeV

**CMS** $\mu, \text{bT}, \text{LP}$ 

▬ Data  
▨ Fit unc.  
■  $m_t$  bkg.  
■ Lost t/W bkg.  
— 1 TeV  $X_{\text{spin-0}}$   
 $\sigma B(X \rightarrow \text{HH}) = 0.2 \text{ pb}$

■  $m_W$  bkg.  
■ q/g bkg.  
— 2.5 TeV  $X_{\text{spin-0}}$

10<sup>3</sup>10<sup>2</sup>

10

1

10<sup>-1</sup>

Data / fit

3

2.5

2

1.5

1

0.5

1000

1500

2000

2500

3000

3500

4000

 $m_{\text{HH}}$  [GeV]