

**CMS** *Preliminary*

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

Events / 25 GeV

$\tau\tau b\bar{b}$  final state

$e\tau_h, > 1$  b-tag (CR)

Observed

jet $\rightarrow\tau_h$

Other

Z $\rightarrow\tau\tau$

tt+jets

$m_{a_1}=35\text{GeV}, B=10\%$

Bkg. unc.

14000

12000

10000

8000

6000

4000

2000

0

Obs./Exp.

1.4

1.2

1.0

0.8

0.6

0

100

200

300

400

500

$m_{\tau\tau}$  (GeV)

