

**CMS***Preliminary****2e, b tag, no VBF, sidebands region***300  
200  
10030  
20  
103  
2  
1

0.3

● Data

■ Z(l $\bar{l}$ ) + jets■ Z( $\nu\nu$ ) + jets■ W(l $\nu$ ) + jets■  $t\bar{t}$ 

■ t+X

■ VV, Vh

■ MC stat.

■  $m_{Z'} = 1000$  GeV■  $m_{Z'} = 2000$  GeV■  $m_{Z'} = 3000$  GeV

HVT model B (x1)

2  
1.5  
1  
0.5  
0Data/Bkg =  $1.143 \pm 0.140$  $\chi^2/\text{ndf} = 0.00$ , K-S = 1.000

-0.5 0 0.5 1 1.5 2 2.5 3 3.5 4 4.5

number of  $\tau$ 