

EVENTS

**CMS***Preliminary**0l, b tag, VBF, sidebands region*300  
200  
100  
30  
20  
10  
3  
2  
1  
0.3

● Data

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

0.3

2  
1.5  
1  
0.5  
0Data/Bkg =  $1.167 \pm 0.077$  $\chi^2/\text{ndf} = 0.58$ , K-S = 0.705AK8 jet p<sub>T</sub> (GeV)

200 400 600 800 1000 1200 1400 1600 1800 2000