

2017, 41.5 fb<sup>-1</sup> (13 TeV)

**CMS**

*Preliminary*

**2 $\mu$ , no VBF, sidebands region**

4000  
3000  
2000

1000

400  
300  
200

100

40  
30  
20

• Data

Z(ll) + jets

Z(vv) + jets

W(lv) + jets

t $\bar{t}$

t+X

VV, Vh

MC stat.

m<sub>Z'</sub> = 1000 GeV

m<sub>Z'</sub> = 2000 GeV

m<sub>Z'</sub> = 3000 GeV

HVT model B (x1)

2

1.5

1

0.5

0

Data/Bkg = 1.094  $\pm$  0.022

$\chi^2/\text{ndf}$  = 0.98, K-S = 0.283

0

0.5

1

1.5

2

2.5

3

min  $\Delta \phi$  (jet- $\cancel{E}_T$ )

