

EVENTS

CMS*Preliminary**0l, b tag, no VBF, top control region*

● Data

■ Z(ll) + jets

■ Z(vv) + jets

■ W(lv) + 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)

300

200

100

30

20

10

3

2

1

0.3

0.2

0.2

1.5

1

0.5

0

0

0.5

1

1.5

2

2.5

3

min $\Delta \phi$ (jet- \cancel{E}_T)Data/Bkg = 1.176 ± 0.071 $\chi^2/\text{ndf} = 0.71$, $K_S = 0.667$