

2017, 41.5 fb⁻¹ (13 TeV)

EVENTS

CMS*Preliminary* **2μ , VBF, sidebands region**

300

200

100

30

20

10

3

2

1

0.3

● 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)

2

1.5

1

0.5

0

Data/Bkg = 0.992 ± 0.053 $\chi^2/\text{ndf} = 7.96$, K-S = 0.997 \cancel{E}_T (GeV)