

CMS*Preliminary****2 μ , no b tag, no VBF, sidebands region***

250

200

150

100

50

20

1.5

1

0.5

0

50

100

150

200

250

jet soft drop mass (GeV)

● 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)

Data/Bkg = 1.094 ± 0.022 $\chi^2/\text{ndf} = 0.83$, K-S = 0.218