

2018, 59.7 fb<sup>-1</sup> (13 TeV)

EVENTS

**CMS**

*Preliminary*

**2e, no VBF, sidebands region**

• Data

Z(l $\bar{l}$ ) + jets

Z( $\nu\bar{\nu}$ ) + jets

W(l $\nu$ ) + jets

$t\bar{t}$

t+X

VV, Vh

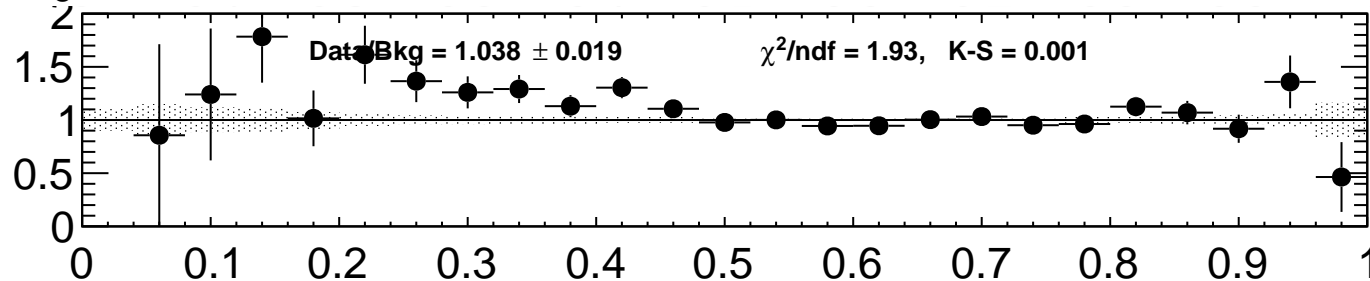
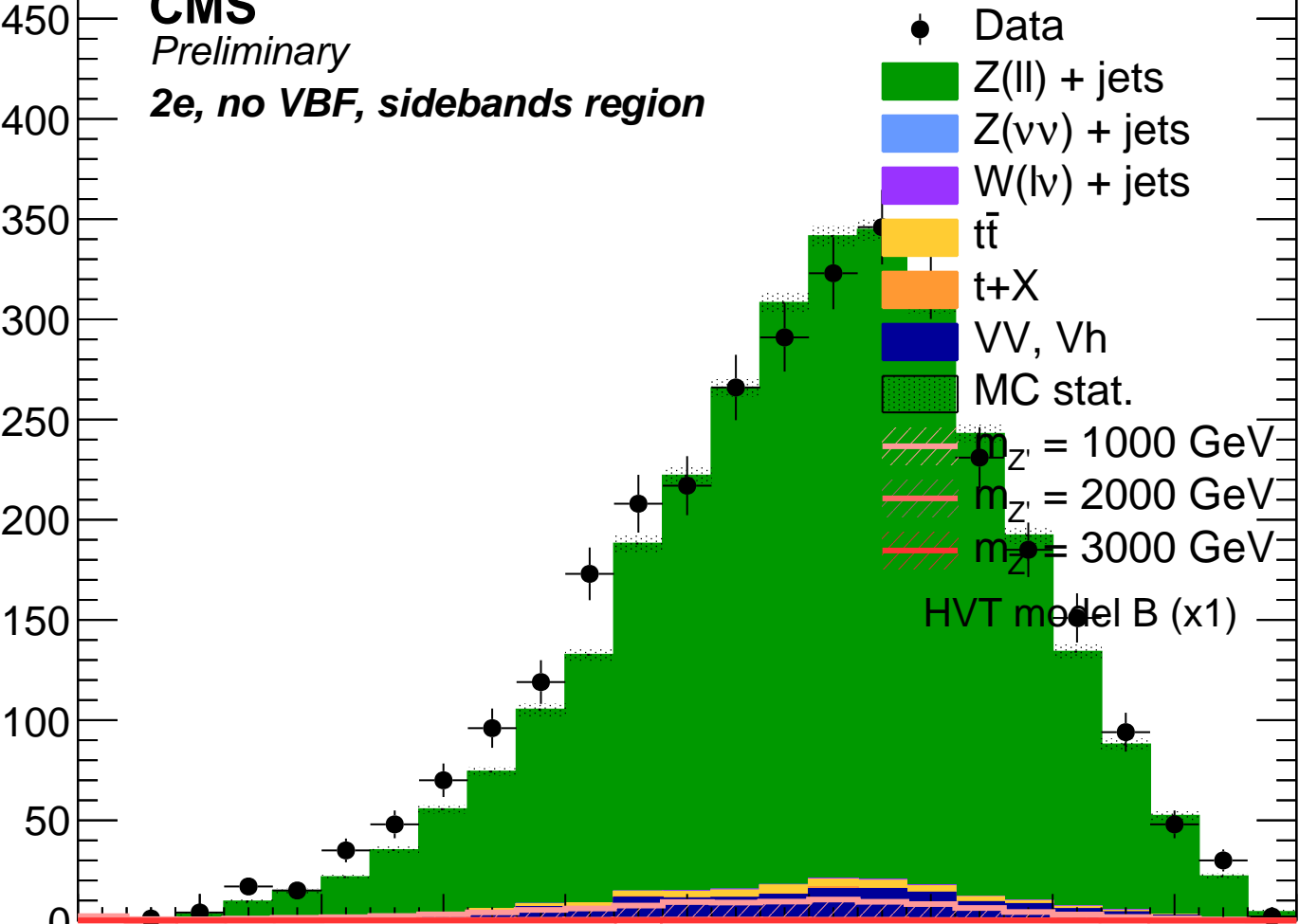
MC stat.

$m_{Z'} = 1000$  GeV

$m_{Z'} = 2000$  GeV

$m_{Z'} = 3000$  GeV

HVT model B (x1)



AK8 jet charged hadron fraction