

35.9 fb<sup>-1</sup> (13 TeV)

Events / bin

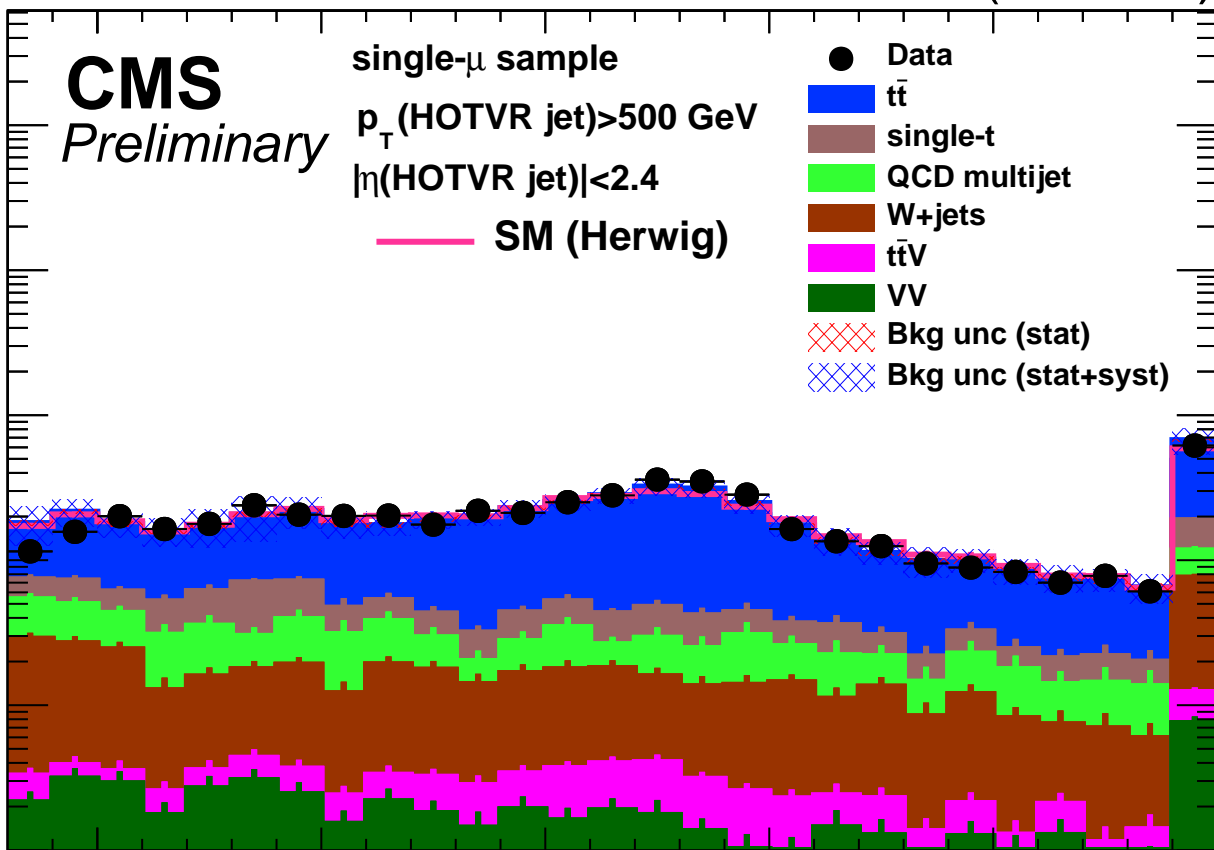
**CMS**  
*Preliminary*

single- $\mu$  sample  
 $p_T(\text{HOTVR jet}) > 500 \text{ GeV}$   
 $|\eta(\text{HOTVR jet})| < 2.4$

- Data
- $t\bar{t}$
- single-t
- QCD multijet
- W+jets
- $t\bar{t}V$
- $VV$
- ⊠ Bkg unc (stat)
- ⊠ Bkg unc (stat+syst)

— SM (Herwig)

10<sup>5</sup>  
10<sup>4</sup>  
10<sup>3</sup>  
10<sup>2</sup>  
10  
1



$N_{\text{obs}} / N_{\text{exp}}$

1.5  
1  
0.5

50 100 150 200 250 300

$m_{\text{HOTVR}} [\text{GeV}]$