

**CMS****35.9 fb<sup>-1</sup>  $\sqrt{s}=13\text{TeV}$**  $\bar{c}3G \text{ yield} / \text{SM } 2D \text{ yield}$  $t\bar{t}W$ 

nonprompt

rare

WZ

 $t\bar{t}X$  $t\bar{t}H$ 

0.8

0.85

0.9

0.95

1

1.05

1.1

1.15

1.2

1.25

1.3

 $2j$   $3j1b_j$   $3j\geq 2b_j$   $\geq 4j1b_j$   $\geq 4j2b_j$   $2j$   $3j1b_j$   $3j\geq 2b_j$   $\geq 4j1b_j$   $\geq 4j2b_j$   $2j$   $3j1b_j$   $3j\geq 2b_j$   $\geq 4j1b_j$   $\geq 4j2b_j$   $2j$   $3j1b_j$   $3j\geq 2b_j$   $\geq 4j1b_j$   $\geq 4j2b_j$