

Variable for categorization	BDT _{Cat.}	$N_{\text{b}}, D_{\text{b}\bar{\text{b}}}$	$r_{\text{HH}}, \delta_{\text{HH}}, m_{\text{V}}$	Year split	$N(\text{regions})$
Signal regions					
MET small-radius	$\kappa_{\lambda}, \kappa_{2\text{V}}$	$N_{\text{b}} \geq 3$	SR+CR	Per year	6
MET large-radius	$\kappa_{2\text{V}}$	HP, LP	SR+CR	Per year	6
1L small-radius	$\kappa_{\lambda}, \kappa_{2\text{V}}$	$N_{\text{b}} \geq 3$	SR+CR	Per year	6
1L large-radius	$\kappa_{2\text{V}}$	HP, LP	SR+CR	Per year	6
2L	$\kappa_{\lambda}, \kappa_{2\text{V}}$	$N_{\text{b}} = 3 \text{ or } 4$	SR,CR	Combined	8
FH	$\kappa_{\lambda}, \kappa_{2\text{V}}$	$N_{\text{b}} = 4$	SR	Per year	6
Control regions					
MET small-radius	—	$N_{\text{b}} \geq 3$	SB	Per year	3
MET large-radius	—	HP, LP	SB	Per year	6
1L small-radius	—	$N_{\text{b}} \geq 3$	SB	Per year	3
1L large-radius	—	HP, LP	SB	Per year	6
2L (DY)	—	$N_{\text{b}} = 3 \text{ or } 4$	DY CR	Combined	2
2L (TT)	—	$N_{\text{b}} \geq 3$	t $\bar{\text{t}}$ CR	Combined	1