

Categorization type	Selection	Category label
Lepton flavor	Electron	e
	Muon	μ
$b\bar{b}$ jet tagging	$0.8 \leq D_{Z/H \rightarrow b\bar{b}} < 0.97$	bL
	$D_{Z/H \rightarrow b\bar{b}} \geq 0.97$	bT
$H \rightarrow WW^*$ purity	$0.45(0.55) < \tau_2 / \tau_1 \leq 0.75$ or $2.5 < D_{\ell\nu q\bar{q}} \leq 11.0$	LP
	$\tau_2 / \tau_1 \leq 0.45(0.55)$ and $D_{\ell\nu q\bar{q}} \leq 2.5$	HP