

lepton	purity	$b\bar{b}$ / VBF tagging	spin
muon	HP: $\tau_{21}^{\text{DDT}} \leq 0.5$	VBF: $m_{jj}^{\text{VBF}} > 500 \text{ GeV}$ and $ \Delta\eta_{jj}^{\text{VBF}}  > 4$	LDy: $ \Delta y  \leq 1$
electron	LP: $0.5 < \tau_{21}^{\text{DDT}} \leq 0.8$	no- $b\bar{b}$ : no VBF and double-b tagger $\leq 0.8$ $b\bar{b}$ : no VBF and double-b tagger $> 0.8$	HDy: $ \Delta y  > 1$