

Variable	Selection
Leading AK8 jet	$p_T > 300 \text{ GeV}$ and $ \eta < 2.4$
AK4 jets	$p_T > 30 \text{ GeV}$ and $ \eta < 2.4$
$ \Delta\eta $	< 1.3
DeepJet	Medium working point
Invariant mass of two AK4 jets	$90 < m_{j_2 j_3} < 140 \text{ GeV}$
m_{HH}	$> 750 \text{ GeV}$