

Subcategories	Selection
<u>Global selection</u>	
—	$p_{T1} > 25 \text{ GeV}, p_{T2} > 10 \text{ GeV}$ (2016) or 13 GeV $p_T^{\text{miss}} > 20 \text{ GeV}, p_T^{\ell\ell} > 30 \text{ GeV}, m_{\ell\ell} > 12 \text{ GeV}$ $e\mu$ pair with opposite charge
<u>2-jet VBF category</u>	
SR	$60 < m_T^{\text{H}} < 125 \text{ GeV}, m_T(\ell_2, p_T^{\text{miss}}) > 30 \text{ GeV}$ 2 jets with $p_T > 30 \text{ GeV}, m_{jj} > 120 \text{ GeV}$ No b-tagged jet with $p_T > 20 \text{ GeV}$
Top quark CR	As SR but with no m_T^{H} requirement, $m_{\ell\ell} > 50 \text{ GeV}$ At least one b-tagged jet with $p_T > 30 \text{ GeV}$
$\tau\tau$ CR	As SR but with $m_T^{\text{H}} < 60 \text{ GeV}$ $40 < m_{\ell\ell} < 80 \text{ GeV}$