

Subcategories

Selection

Global selection

$p_{T1} > 25 \text{ GeV}, p_{T2} > 10 \text{ GeV}$  (2016) or 13 GeV  
 $p_T^{\text{miss}} > 20 \text{ GeV}, p_T^{\ell\ell} > 30 \text{ GeV}$   
ee or  $\mu\mu$  pair with opposite charge  
 $m_{\ell\ell} > 12 \text{ GeV}, |m_{\ell\ell} - m_Z| > 15 \text{ GeV}$

2-jet VBF category

ee,  $\mu\mu$

$m_{\ell\ell} < 60 \text{ GeV}, 65 < m_T^H < 150 \text{ GeV}$   
At least 2 jets with  $p_T > 30 \text{ GeV}$   
 $|\Delta\phi_{\ell\ell}| < 1.6, m_{jj} > 350 \text{ GeV}$   
No b-tagged jets with  $p_T > 20 \text{ GeV}$   
DYMVA above threshold

WW CR

As SR but with  $m_{\ell\ell} > 100 \text{ GeV}$   
 $m_T^H > 60 \text{ GeV}, m_T(\ell_2, p_T^{\text{miss}}) > 30 \text{ GeV}$

Top quark CR

As SR but with  $m_{\ell\ell} > 100 \text{ GeV}, m_T(\ell_2, p_T^{\text{miss}}) > 30 \text{ GeV}$   
At least one of the leading jets b-tagged