

## VBF

## Boosted

$\tau_{\text{lep}} \tau_{\text{lep}}$

$\tau_{\text{lep}} \tau_{\text{lep}}$  VBF  
Top CR  
inverted  $b$ -veto

$\tau_{\text{lep}} \tau_{\text{lep}}$  VBF  
 $Z \rightarrow ll$  CR  
SF,  $80 < m_{ll} < 100$  GeV

$\tau_{\text{lep}} \tau_{\text{lep}}$  VBF  
loose SR  
tight SR

$\tau_{\text{lep}} \tau_{\text{lep}}$  Boosted  
low- $p_T^{\tau\tau}$  SR  
high- $p_T^{\tau\tau}$  SR

$\tau_{\text{lep}} \tau_{\text{had}}$

$\tau_{\text{lep}} \tau_{\text{had}}$  VBF  
Top CR  
inv.  $b$ -veto,  $m_T > 40$  GeV

$\tau_{\text{lep}} \tau_{\text{had}}$  VBF  
loose SR  
tight SR

$\tau_{\text{lep}} \tau_{\text{had}}$  Boosted  
low- $p_T^{\tau\tau}$  SR  
high- $p_T^{\tau\tau}$  SR

$\tau_{\text{had}} \tau_{\text{had}}$

$Z \rightarrow \tau\tau$  VBF  
normalization

$\tau_{\text{had}} \tau_{\text{had}}$  VBF  
loose SR  
tight SR  
high- $p_T^{\tau\tau}$  SR

$\tau_{\text{had}} \tau_{\text{had}}$  Boosted  
low- $p_T^{\tau\tau}$  SR  
high- $p_T^{\tau\tau}$  SR

$Z \rightarrow \tau\tau$  Boosted  
normalization

