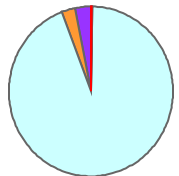
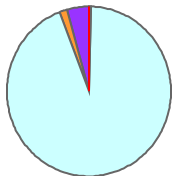


$\tau_{\text{lep}} \tau_{\text{lep}}$ VBF
 $Z \rightarrow \ell\ell$ CR




$\tau_{\text{lep}} \tau_{\text{lep}}$ boosted
 $Z \rightarrow \ell\ell$ CR





ATLAS

$\sqrt{s} = 13 \text{ TeV}, 36.1 \text{ fb}^{-1}$

 $H \rightarrow \tau\tau$

 Top

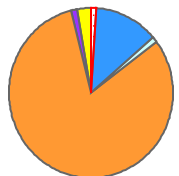
 $Z \rightarrow \tau\tau$

 Other backgrounds

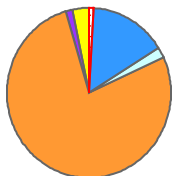
 $Z \rightarrow \ell\ell$

 Misidentified τ

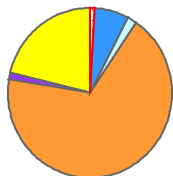
$\tau_{\text{lep}} \tau_{\text{lep}}$ VBF
top CR



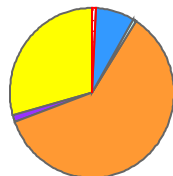
$\tau_{\text{lep}} \tau_{\text{lep}}$ boosted
top CR



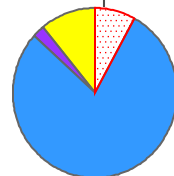
$\tau_{\text{lep}} \tau_{\text{had}}$ VBF
top CR



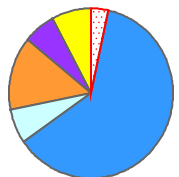
$\tau_{\text{lep}} \tau_{\text{had}}$ boosted
top CR



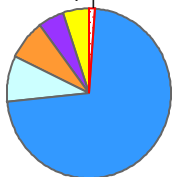
$\tau_{\text{had}} \tau_{\text{had}}$ VBF
high- $p_T^{\tau\tau}$ SR



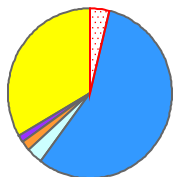
$\tau_{\text{lep}} \tau_{\text{lep}}$ VBF
loose SR



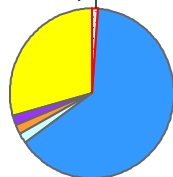
$\tau_{\text{lep}} \tau_{\text{lep}}$ boosted
low- $p_T^{\tau\tau}$ SR



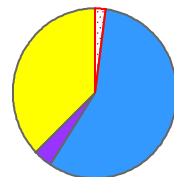
$\tau_{\text{lep}} \tau_{\text{had}}$ VBF
loose SR



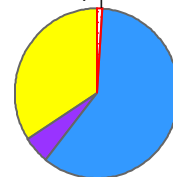
$\tau_{\text{lep}} \tau_{\text{had}}$ boosted
low- $p_T^{\tau\tau}$ SR



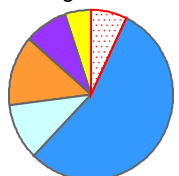
$\tau_{\text{had}} \tau_{\text{had}}$ VBF
loose SR



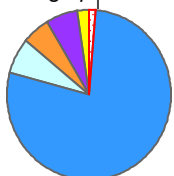
$\tau_{\text{had}} \tau_{\text{had}}$ boosted
low- $p_T^{\tau\tau}$ SR



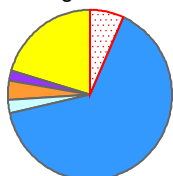
$\tau_{\text{lep}} \tau_{\text{lep}}$ VBF
tight SR



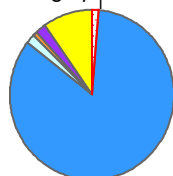
$\tau_{\text{lep}} \tau_{\text{lep}}$ boosted
high- $p_T^{\tau\tau}$ SR



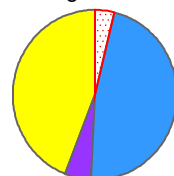
$\tau_{\text{lep}} \tau_{\text{had}}$ VBF
tight SR



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



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



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

