

Channel	Preselection cuts
$\tau_{\text{lep}}\tau_{\text{lep}}$	<p>Exactly two isolated opposite-sign leptons</p> <p>Events with τ_{had} candidates are rejected</p> <p>$30 \text{ GeV} < m_{\tau\tau}^{\text{vis}} < 100 \text{ (75) GeV}$ for DF (SF) events</p> <p>$\Delta\phi_{\ell\ell} < 2.5$</p> <p>$E_{\text{T}}^{\text{miss}} > 20 \text{ (40) GeV}$ for DF (SF) events</p> <p>$E_{\text{T}}^{\text{miss,HPTO}} > 40 \text{ GeV}$ for SF events</p> <p>$p_{\text{T}}^{\ell_1} + p_{\text{T}}^{\ell_2} > 35 \text{ GeV}$</p> <p>Events with a b-tagged jet with $p_{\text{T}} > 25 \text{ GeV}$ are rejected</p> <p>$0.1 < x_{\tau_1}, x_{\tau_2} < 1$</p> <p>$m_{\tau\tau}^{\text{coll}} > m_Z - 25 \text{ GeV}$</p>
$\tau_{\text{lep}}\tau_{\text{had}}$	<p>Exactly one isolated lepton and one medium τ_{had} candidate with opposite charges</p> <p>$m_{\text{T}} < 70 \text{ GeV}$</p> <p>Events with a b-tagged jet with $p_{\text{T}} > 30 \text{ GeV}$ are rejected</p>
$\tau_{\text{had}}\tau_{\text{had}}$	<p>One isolated medium and one isolated tight opposite-sign τ_{had}-candidate</p> <p>Events with leptons are vetoed</p> <p>$E_{\text{T}}^{\text{miss}} > 20 \text{ GeV}$</p> <p>$E_{\text{T}}^{\text{miss}}$ points between the two visible taus in ϕ, or $\min[\Delta\phi(\tau, E_{\text{T}}^{\text{miss}})] < \pi/4$</p> <p>$0.8 < \Delta R(\tau_{\text{had}_1}, \tau_{\text{had}_2}) < 2.4$</p> <p>$\Delta\eta(\tau_{\text{had}_1}, \tau_{\text{had}_2}) < 1.5$</p>
Channel	VBF category selection cuts
$\tau_{\text{lep}}\tau_{\text{lep}}$	<p>At least two jets with $p_{\text{T}}^{j_1} > 40 \text{ GeV}$ and $p_{\text{T}}^{j_2} > 30 \text{ GeV}$</p> <p>$\Delta\eta(j_1, j_2) > 2.2$</p>
$\tau_{\text{lep}}\tau_{\text{had}}$	<p>At least two jets with $p_{\text{T}}^{j_1} > 50 \text{ GeV}$ and $p_{\text{T}}^{j_2} > 30 \text{ GeV}$</p> <p>$\Delta\eta(j_1, j_2) > 3.0$</p> <p>$m_{\tau\tau}^{\text{vis}} > 40 \text{ GeV}$</p>
$\tau_{\text{had}}\tau_{\text{had}}$	<p>At least two jets with $p_{\text{T}}^{j_1} > 50 \text{ GeV}$ and $p_{\text{T}}^{j_2} > 30 \text{ GeV}$</p> <p>$p_{\text{T}}^{j_2} > 35 \text{ GeV}$ for jets with $\eta > 2.4$</p> <p>$\Delta\eta(j_1, j_2) > 2.0$</p>
Channel	Boosted category selection cuts
$\tau_{\text{lep}}\tau_{\text{lep}}$	At least one jet with $p_{\text{T}} > 40 \text{ GeV}$
All	<p>Failing the VBF selection</p> <p>$p_{\text{T}}^H > 100 \text{ GeV}$</p>