

Muon	$p_T > 22/26/6 \text{ GeV}$ for the cross μ - τ /single μ /VBF+ μ trigger $ d_{xy} < 0.045 \text{ cm}, d_z < 0.2 \text{ cm}, \eta < 2.4$ Tight Muon ID, PF relative isolation < 0.15
Electron	$p_T > 25/31/13(18) \text{ GeV}$ for the cross e- τ /single e/VBF+e trigger $ d_{xy} < 0.045 \text{ cm}, d_z < 0.2 \text{ cm}, \eta < 2.5$ Tight electron MVA Isolation+ID
Tau lepton	$\tau_h \tau_h$: double- τ : $p_T > 40(35) \text{ GeV}$, double- τ +jet: $p_T > 35(31) \text{ GeV}$, 2 jets + 1 τ + 1 b-jet : $p_T > 25(25) \text{ GeV}$ $\tau_\mu \tau_h$: $p_T > 32 \text{ GeV}$ $\tau_e \tau_h$: $p_T > 35 \text{ GeV}$ $ d_z < 0.2 \text{ cm}, \eta < 2.5$ DEEPTAU ID working points: D_{jet}^τ Medium, D_e^τ VVLoose, D_μ^τ VLoose/Tight
Boosted- τ	$p_T > 20 \text{ GeV}, \eta < 2.5$ BOOSTED DEEPTAU vsJet score requirement
Lepton pair	opposite electric charge, resolved $\tau\tau$: $\Delta R > 0.5$, boosted- $\tau_h \tau_h$: $\Delta R < 0.8$
Additional	additional lepton veto