

$W \rightarrow \ell\nu$ Lepton requirements

Single lepton trigger

High-quality lepton ID and isolation

Electron (muon) $p_T > 30$ (25) GeV

$E_T^{\text{miss}} > 30$ (25) GeV for electron (muon) channels

W transverse mass > 30 GeV

Veto second lepton

Jet requirements

$p_T^{j1} > 60$ GeV, $p_T^{j2} > 50$ GeV

$|y_W - (y_{j1} + y_{j2})/2| < 1.2$

$m_{jj} > 1000$ GeV