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| Single-lepton (e, μ) trigger | $ M_{e\gamma} - M_Z > 10 \text{ GeV}$ (electron channel) |
| Lepton, photon ID and isolation | $p_{\text{T}}^{j1} > 40 \text{ GeV}, p_{\text{T}}^{j2} > 30 \text{ GeV}$ |
| Second lepton veto | $ \eta^{j1} < 4.7, \eta^{j2} < 4.7$ |
| Muon (electron) $p_{\text{T}} > 25$ (30) GeV, $ \eta < 2.1$ (2.4) | $ \Delta\phi_{j1, \vec{p}_{\text{T}}^{\text{miss}}} > 0.4, \Delta\phi_{j2, \vec{p}_{\text{T}}^{\text{miss}}} > 0.4 \text{ rad}$ |
| Photon $p_{\text{T}}^{\gamma} > 22 \text{ GeV}, \eta < 1.44$ | b quark jet veto for tag jets |
| W boson transverse mass $> 30 \text{ GeV}$ | Dijet invariant mass $m_{jj} > 200 \text{ GeV}$ |
| $ \vec{p}_{\text{T}}^{\text{miss}} > 35 \text{ GeV}$ | $\Delta R_{jj}, \Delta R_{j\gamma}, \Delta R_{jl}, \Delta R_{l\gamma} > 0.5$ |