

Category	Subcategory	Requirements
Preselection	—	<p>four tight and isolated leptons, with zero total charge</p> <p>$p_T > 25 \text{ GeV}$ for the leading lepton</p> <p>$p_T > 15 \text{ GeV}$ for the second leading lepton</p> <p>$p_T > 10 \text{ GeV}$ for the remaining two leptons</p> <p>no additional leptons with $p_T > 10 \text{ GeV}$</p> <p>Z dilepton mass $> 4 \text{ GeV}$</p> <p>X dilepton mass $> 4 \text{ GeV}$</p>
	XSF	<p>$m_{\ell\ell} - m_Z < 15 \text{ GeV}$</p> <p>$10 < m_X < 50 \text{ GeV}$</p> <p>$35 < p_T^{\text{miss}} < 100 \text{ GeV}$</p> <p>four-lepton invariant mass $> 140 \text{ GeV}$</p>
4-lepton ZH-tagged	XDF	<p>$m_{\ell\ell} - m_Z < 15 \text{ GeV}$</p> <p>$10 < m_X < 70 \text{ GeV}$</p> <p>$p_T^{\text{miss}} > 20 \text{ GeV}$</p> <p>no b-tagged jets with $p_T > 20 \text{ GeV}$</p>