

Category	Subcategory	Requirements
preselection	-	<p>four tight and isolated leptons, with zero total charge</p> <p>$p_T > 25$ GeV for the leading lepton</p> <p>$p_T > 15$ GeV for the second leading lepton</p> <p>$p_T > 10$ GeV for the remaining two leptons</p> <p>additional leptons veto</p> <p>Z_0 dilepton mass larger than 4 GeV</p> <p>X dilepton mass larger than 4 GeV</p>
4-lepton ZH-tagged	XSF	<p>$m_{\ell\ell} - m_{Z_0} < 15$ GeV</p> <p>10 GeV $< m_X < 50$ GeV</p> <p>35 GeV $< E_T^{\text{miss}} < 100$ GeV</p> <p>four lepton invariant mass larger than 140 GeV</p>
	XDF	<p>$m_{\ell\ell} - m_{Z_0} < 15$ GeV</p> <p>10 GeV $< m_X < 70$ GeV</p> <p>$E_T^{\text{miss}} > 20$ GeV</p> <p>no b-tagged jets with $p_T > 20$ GeV</p>