```
p_{\mathrm{T}}^{\ell 1,\ell 2} > 25\,\mathrm{GeV}, |\eta^{\ell 1,\ell 2}| < 2.5 for electron channel
Common selection
                                          p_{\rm T}^{\ell 1,\ell 2} > 20 \,{\rm GeV}, |\eta^{\ell 1,\ell 2}| < 2.4 \,{\rm for \, muon \, channel}
                                        p_{\rm T}^{\gamma} > 20 \,{\rm GeV}, \, |\eta^{\gamma}| < 1.444 \,{\rm or}\, 1.566 < |\eta^{\gamma}| < 2.500
                                                            p_{\rm T}^{\rm j1,j2} > 30\,{\rm GeV}, |\eta^{\rm j1,j2}| < 4.7
                                                   70 < m_{\ell\ell} < 110 \,\text{GeV}, m_{Z\gamma} > 100 \,\text{GeV}
                                                      \Delta R_{ii}, \Delta R_{i\gamma}, \Delta R_{i\ell} > 0.5, \Delta R_{\ell\gamma} > 0.7
                                                                   Common selection,
Control region
                                                                  150 < m_{ii} < 500 \,\text{GeV}
                                                                   Common selection.
EW signal region
                                                            m_{ii} > 500 \,\text{GeV}, |\Delta \eta_{ii}| > 2.5,
                                                                 \eta^* < 2.4, \Delta \phi_{Z\gamma,ii} > 1.9
Fiducial volume
                                                                   Common selection,
                                                             m_{ii} > 500 \,\text{GeV}, |\Delta \eta_{ii}| > 2.5
                                                                   Common selection,
aQGC search region
                                                            m_{ii} > 500 \,\text{GeV}, |\Delta \eta_{ii}| > 2.5,
                                                                        p_{\mathrm{\scriptscriptstyle T}}^{\gamma} > 120\,\mathrm{GeV}
```