

## Common selection

$$\begin{aligned}
 p_T^{j1,j2} &> 30 \text{ GeV}, |\eta^{j1,j2}| < 4.7 \\
 p_T^{\ell1,\ell2} &> 20 \text{ GeV}, |\eta^{\ell1,\ell2}| < 2.4 \\
 |\eta^\gamma| &< 1.4442 \\
 M_{jj} &> 150 \text{ GeV} \\
 70 < M_{\ell\ell} < 110 \text{ GeV}
 \end{aligned}$$

EW signal measurement	Fiducial cross section	aQGC search
$p_T^\gamma > 25 \text{ GeV}$	$p_T^\gamma > 20 \text{ GeV}$	$p_T^\gamma > 60 \text{ GeV}$
$ \Delta\eta_{jj}  > 1.6$	$ \Delta\eta_{jj}  > 2.5$	$ \Delta\eta_{jj}  > 2.5$
$\Delta R_{j\ell} > 0.3, \Delta R_{jj,\gamma j,\gamma\ell} > 0.5$	$\Delta R_{jj,\gamma j,\gamma\ell,j\ell} > 0.4$	$\Delta R_{j\ell} > 0.3, \Delta R_{jj,\gamma j,\gamma\ell} > 0.5$
$ y_{Z\gamma} - (y_{j1} + y_{j2})/2  < 1.2$	$M_{jj} > 400 \text{ GeV}$	$M_{jj} > 400 \text{ GeV}$
$\Delta\phi_{Z\gamma,jj} > 2.0 \text{ radians}$		
$M_{jj} > 400 \text{ GeV}$ with two divided regions		
$400 < M_{jj} < 800 \text{ GeV}$ and $M_{jj} > 800 \text{ GeV}$		