

Variable	Selection	Reject
Number of leptons	Exactly 2 leptons, $p_T > 25/20$ GeV	WZ, ZZ, VVV
Number of photons	≥ 1 photon, $p_T^\gamma > 25$ GeV	All but $Z\gamma$
$ m_{\ell\ell} - m_Z $	< 15 GeV	WW, Top quark
p_T^{miss}	> 110 GeV	$Z\gamma$
$p_T^{\ell\ell}$	> 60 GeV	$Z\gamma$
b jet veto	Applied	Top quark, VVV
Jet counting	≤ 2	Top quark, VVV
$\Delta\phi_{\ell\ell, \vec{p}_T^{\text{miss}} + \vec{p}_T^\gamma}$	> 2.5 rad	$Z\gamma$
$ p_T^{\vec{p}_T^{\text{miss}} + \vec{p}_T^\gamma} - p_T^{\ell\ell} / p_T^{\ell\ell}$	< 0.4	$Z\gamma$
$\Delta\phi_{\text{jet}, \vec{p}_T^{\text{miss}}}$	> 0.5 rad	$Z\gamma$
$m_{\ell\ell\gamma}$	> 100 GeV	$Z\gamma$
m_T	< 350 GeV	WW, Top quark