

Event category	Leptons	$m_{\ell\ell}$	b tags	Lepton charge sum	Jets	Differential variable
$2lss\ 2b$	2	No requirement	2	$> 0, < 0$	$4,5,6,\geq 7$	$p_T(\ell j0)$
$2lss\ 3b$	2	No requirement	$\geq 3$	$> 0, < 0$	$4,5,6,\geq 7$	$p_T(\ell j0)$
$3l\ \text{off-Z}\ 1b$	3	$ m_Z - m_{\ell\ell}  > 10\ \text{GeV}$	1	$> 0, < 0$	$2,3,4,\geq 5$	$p_T(\ell j0)$
$3l\ \text{off-Z}\ 2b$	3	$ m_Z - m_{\ell\ell}  > 10\ \text{GeV}$	$\geq 2$	$> 0, < 0$	$2,3,4,\geq 5$	$p_T(\ell j0)$
$3l\ \text{on-Z}\ 1b$	3	$ m_Z - m_{\ell\ell}  \leq 10\ \text{GeV}$	1	No requirement	$2,3,4,\geq 5$	$p_T(Z)$
$3l\ \text{on-Z}\ 2b$	3	$ m_Z - m_{\ell\ell}  \leq 10\ \text{GeV}$	$\geq 2$	No requirement	$2,3,4,\geq 5$	$p_T(Z)$ or $p_T(\ell j0)$
$4l$	$\geq 4$	No requirement	$\geq 2$	No requirement	$2,3,\geq 4$	$p_T(\ell j0)$