

Region	n. ℓ	n. τ_h	SF	$ \sum \text{ch.} $	b-veto	$m_{\ell\ell}$	m_{jj}^{YBS}	$ \Delta\eta^{\text{YBS}}_{jj} $	n. AK4	n. AK8	m_V
WV-SR(Res)	1	0	-	1	✓	-	> 500	> 2.5	≥ 4	0	$\in [65, 105]$
WV-SR(Boost)	1	0	-	1	✓	-	> 500	> 2.5	≥ 2	1	$\in [70, 115]$
WV-Top(Res)	1	0	-	1	✗	-	> 500	> 2.5	≥ 4	0	$\in [65, 105]$
WV-Top(Boost)	1	0	-	1	✗	-	> 500	> 2.5	≥ 2	1	$\in [70, 115]$
WV-Wjets(Res)	1	0	-	1	✓	-	> 500	> 2.5	≥ 4	0	$\notin [65, 105]$
WV-Wjets(Boost)	1	0	-	1	✓	-	> 500	> 2.5	≥ 2	1	$\notin [70, 115]$
SSWW(τ_h)-SR	1	1	-	2	✓	-	> 500	> 2.5	≥ 2	-	-
SSWW(τ_h)-Top	1	1	-	0	✗	-	> 500	> 2.5	≥ 2	-	-
SSWW(τ_h)-OS	1	1	-	0	✓	-	> 500	> 2.5	≥ 2	-	-
SSWW(e, μ)-SR	2	0	-	2	✓	> 20	> 500	> 2.5	≥ 2	-	-
SSWW(e, μ)-b	2	0	-	2	✗	> 20	> 500	> 2.5	≥ 2	-	-
OS-SR(SF)	2	0	✓	0	✓	> 120	> 300	> 2.5	≥ 2	-	-
OS-SR(DF)	2	0	✗	0	✓	> 50	> 300	> 2.5	≥ 2	-	-
ZV-SR-b(Res)	2	0	✓	0	✗	$\in [76, 106]$	> 500	> 2.5	≥ 4	0	$\in [65, 105]$
ZV-SR-b(Boost)	2	0	✓	0	✗	$\in [76, 106]$	> 500	> 2.5	≥ 2	1	$\in [65, 105]$
ZV-SR(Res)	2	0	✓	0	✓	$\in [76, 106]$	> 500	> 2.5	≥ 4	0	$\in [65, 105]$
ZV-SR(Boost)	2	0	✓	0	✓	$\in [76, 106]$	> 500	> 2.5	≥ 2	1	$\in [65, 105]$
ZV-DY-b(Res)	2	0	✓	0	✗	$\in [76, 106]$	> 500	> 2.5	≥ 4	0	$\notin [65, 105]$
ZV-DY-b(Boost)	2	0	✓	0	✗	$\in [76, 106]$	> 500	> 2.5	≥ 2	1	$\notin [65, 105]$
ZV-DY(Res)	2	0	✓	0	✓	$\in [76, 106]$	> 500	> 2.5	≥ 4	0	$\notin [65, 105]$
ZV-DY(Boost)	2	0	✓	0	✓	$\in [76, 106]$	> 500	> 2.5	≥ 1	1	$\notin [65, 105]$
OSWW-DY(DF)	2	0	✗	0	✓	$\in [50, 80]$	> 300	> 2.5	≥ 2	-	-
OSWW-DY(SF)	2	0	✓	0	✓	$\in [76, 106]$	> 300	> 2.5	≥ 2	-	-
OSWW-Top(SF)	2	0	✓	0	✗	> 120	> 300	> 2.5	≥ 2	-	-
OSWW-Top(DF)	2	0	✗	0	✗	> 50	> 300	> 2.5	≥ 2	-	-
WZ-SR	3	0	✓(Z)	1	✓	$\in [76, 106]$	> 500	> 2.5	≥ 2	-	-
WZ-b	3	0	✓(Z)	1	✗	$\in [76, 106]$	> 500	> 2.5	≥ 2	-	-
ZZ(4 ℓ)-SR	4	0	✓(Z)	0	-	$\in [60, 120]$	> 100	> 2.5	≥ 2	-	-