

Analysis	Region	Subregions	Observable	Bins
SSWW (e, μ)	SR	-	$m_{jj}^{\text{VBS}} : m_{\ell\ell}$	32
SSWW (e, μ)	CR b-tag	-	m_{jj}^{VBS}	4
SSWW (τ_h)	SR	(e, μ)	DNN	12
SSWW (τ_h)	CR $t\bar{t}$	(e, μ)	DNN	12
SSWW (τ_h)	CR OS	(e, μ)	DNN	12
OSWW	SR	$e\mu$ ($Z_{\ell\ell} \lesseqgtr 1$)	DNN	13
OSWW	SR	$ee, \mu\mu$ ($Z_{\ell\ell} \lesseqgtr 1$)	$m_{jj}^{\text{VBS}} : \Delta\eta_{jj}^{\text{VBS}}$	8
OSWW	CR $t\bar{t}$	($ee, \mu\mu, e\mu$)	Events	1
OSWW	CR DY	($e\mu$)	Events	1
OSWW	CR DY	($ee, \mu\mu, \Delta\eta_{jj}^{\text{VBS}} \lesseqgtr 5$)	Events	1
WV	SR resolved	(e, μ)	DNN resolved	25
WV	SR merged	(e, μ)	DNN boosted	12
WV	CR $t\bar{t}$ resolved	(e, μ)	Events	1
WV	CR $t\bar{t}$ merged	(e, μ)	Events	1
WV	CR W+jets resolved	(e, μ)	$p_T^{W \rightarrow \ell\nu}$	21
WV	CR W+jets merged	(e, μ)	$p_T^{W \rightarrow \ell\nu} : p_T^{j2, \text{VBS}}$	7
WZ	SR	-	BDT	8
WZ	CR b-tag	-	m_{jj}^{VBS}	4
ZV	SR resolved b-tag	-	DNN resolved b-tag	21
ZV	SR merged b-tag	-	DNN boosted b-tag	21
ZV	SR resolved b-veto	-	DNN resolved b-veto	21
ZV	SR merged b-veto	-	DNN boosted b-veto	21
ZV	CR DY resolved	b-tag, b-veto (2017-2018)	$p_T^{Z \rightarrow \ell\ell} : p_T^{j2, \text{VBS}}$	12
ZV	CR DY resolved	b-tag, b-veto (2016)	$p_T^{Z \rightarrow \ell\ell}$	5
ZV	CR DY merged	b-tag, b-veto	$p_T^{Z \rightarrow \ell\ell}$	5
ZZ (4ℓ)	SR	($4e, 4\mu, 2e2\mu$)	K_D discriminant	25