

Analysis	Region	Subregions	Observable	Bins
WV	SR Resolved	(e, μ)	DNN resolved	25
WV	SR Boosted	(e, μ)	DNN boosted	12
WV	CR Top Resolved	(e, μ)	Events	1
WV	CR Top Boosted	(e, μ)	Events	1
WV	CR W+jets Resolved	(e, μ)	$p_T^{W \rightarrow \ell \nu}$	21
WV	CR W+jets Boosted	(e, μ)	$p_T^{W \rightarrow \ell \nu} : p_{T,j_2}^{\text{VBS}}$	7
ZV	SR Resolved b-tag	-	DNN resolved b-tag	21
ZV	SR Boosted b-tag	-	DNN boosted b-tag	21
ZV	SR Resolved b-veto	-	DNN resolved b-veto	21
ZV	SR Boosted b-veto	-	DNN boosted b-veto	21
ZV	CR DY Resolved	b-tag, b-veto (2017,2018)	$p_T^{Z \rightarrow \ell \ell} : p_{T,j_2}^{\text{VBS}}$	12
ZV	CR DY Resolved	b-tag, b-veto (2016)	$p_T^{Z \rightarrow \ell \ell}$	5
ZV	CR DY Boosted	b-tag, b-veto	$p_T^{Z \rightarrow \ell \ell}$	5
OSWW	SR	$e\mu (Z_{\ell\ell} \lesssim 1)$	DNN	13
OSWW	SR	$ee, \mu\mu (Z_{\ell\ell} \lesssim 1)$	$m_{jj}^{\text{VBS}} : \Delta\eta_{jj}^{\text{VBS}}$	8
OSWW	CR Top	$(ee, \mu\mu, e\mu)$	Events	1
OSWW	CR DY	$(e\mu)$	Events	1
OSWW	CR DY	$(ee, \mu\mu, \Delta\eta_{jj}^{\text{VBS}} \lesssim 5)$	Events	1
SSWW(e, μ)	SR	-	$m_{jj}^{\text{VBS}} : m_{ll}$	32
SSWW(e, μ)	CR b-tag	-	m_{jj}^{VBS}	4
WZ	SR	-	BDT	8
WZ	CR b-tag	-	m_{jj}^{VBS}	4
ZZ(4ℓ)	SR	$(4e, 4\mu, 2e2\mu)$	K_D discriminant	25
SSWW(τ_h)	SR	(e, μ)	DNN	12
SSWW(τ_h)	CR Top	(e, μ)	DNN	12
SSWW(τ_h)	CR OS	(e, μ)	DNN	12