Category	$1\ell + 2\tau_{\mathrm{h}}$	$2\ell\mathrm{ss} + 1\tau_{\mathrm{h}}$	$2\ell + 2\tau_{\mathrm{h}}$	$3\ell + 1\tau_{\mathrm{h}}$	$2\ell\mathrm{ss}$		3ℓ	
					$t\bar{t}$	$t\bar{t}V$	$t\bar{t}$	$t\bar{t}V$
Leading ℓ cone p_{T}	X		X	X		X		X
Trailing ℓ cone p_{T}		X		X		X		X
Minimum of ΔR(leading ℓ, j)	X	X	X	X	X	X	X	X
Minimum of ΔR(trailing ℓ, j)		X			X	X	X	X
ΔR(leading ℓ, trailing ℓ)		X		X				
Transverse Mass of leading ℓ	X	X			X	X	X	X
Transverse Mass of trailing ℓ		X						
Maximum $|\eta|$ of ℓ collection		X		X	X	X	X	X
Signal leading $\ell \times$ signal trailing ℓ			X					
Average of ΔR(jj)	X	X	X					
Number of jets ($p_{\mathrm{T}} > 25$ GeV)		X		X	X	X	X	X
Number of loose b-jets	X		X					
Mass of leading medium b-jet pair		X						
Mass of leading loose b-jet pair				X				
E_T^{miss}	X	X		X				
res-hTT	X	X						
Hadronic t p_{T}	X	X						
$\mathcal{D}_{\mathrm{thad}}^{\max}$					X			
$\mathcal{D}_{\mathrm{Hj}}^{\max}$						X		
Leading τ_{h} p_{T}	X	X	X	X				
Trailing τ_{h} p_{T}	X		X					
Mass of leading τ_{h} + trailing τ_{h}	X		X					
ΔR(leading τ_{h}, trailing τ_{h})	X		X					
$cos(\theta)^*$(leading τ_{h}, trailing τ_{h})	X		X					
Minimum of ΔR(leading τ_{h}, j)	X	X		X				
Minimum of ΔR(trailing τ_{h}, j)	X							
Minimum of $\Delta R(\tau_{\mathrm{h}}, j)$			X					
Mass of leading ℓ+ leading τ_{h}				X				
Mass of trailing ℓ+ leading τ_{h}		X		X				
ΔR(leading ℓ, leading τ_{h})	X	X						
ΔR(trailing ℓ, leading τ_{h})		X						
$\Delta R(\ell, \tau_{\mathrm{h}})$ for same-sign pair of (ℓ, τ_{h})	X							
Average of $\Delta R(\ell, \tau_{\mathrm{h}})$			X					
MEM							X	X
Number of variables	17	18	13	12	6	8	6	8