	$BDT_{Cat.}$			BDT_{SvB}				NN_{SvB}
Input variable	MET/1L	2L	FH	MET (S)	1L (S)	MET/1L (L)	2L	FH
$p_T(V)$, $p_T(H_1)$	✓	✓	✓	✓	✓	✓	✓	
$p_T(HH)$	✓			✓	✓	✓	✓	
$p_T(H_2)$	✓			✓	✓	✓		
m_{H_1}	✓			✓	✓	✓	✓	
m_{H_2}	✓			✓	✓	✓		
m_{HH}	✓	✓	✓	✓	✓	✓	✓	
$\Delta R(H_1, H_2)$	✓		✓					
$\Delta\phi(V, H_2)$	✓		✓	✓	✓	✓		
$p_T(H_2)/p_T(H_1)$	✓	✓	✓					
$\Delta\eta(H_1, H_2)$	✓		✓	✓				
$\Delta\phi(H_1, H_2)$	✓		✓	✓	✓	✓		
Energy of H_1	✓		✓				✓	
Energy of H_2	✓		✓					
Energy of HH	✓		✓				✓	
η_{HH}	✓		✓					
η_{H_1}			✓	✓				
$\phi(V)$				✓	✓	✓		
$s_{b\text{-tag}}(j_{1,2,3,4})$				✓	✓			
H_T^{ex}				✓				
m_V				✓			✓	
$\Delta R(H_1, H_2)$		✓		✓			✓	
$\Delta\phi(V, H_2)$		✓		✓			✓	
$\Delta R(H_1, H_2)$				✓			✓	
N_{jets}				✓				✓
$\tau_2/\tau_1(H_1, H_2)$						✓		
$\tau_3/\tau_2(H_1, H_2)$						✓		
$p_T(\ell_2)/p_T(\ell_1)$		✓					✓	
$\Delta\phi(\ell_1, \ell_2)$		✓					✓	
$\Delta\eta(\ell_1, \ell_2)$		✓					✓	
$\Delta R(j_{1,H_2}, j_{2,H_2})$		✓						
$\Delta R(j_{1,H_1}, j_{2,H_1})$		✓						
$p_T(\ell_1)/m_V$		✓						
$p_T(\ell_1)$		✓						
$p_T(j_{3,4})$							✓	
H_T^{VHH}							✓	
$p_T(V)/p_T(HH)$							✓	
$\Delta\phi(V, HH)$							✓	
$p_T(\ell_1)/m_V$							✓	
$\eta/\phi/m/p_T(j_{1,2,3,4,other})$								✓
$m_{j_i j_k}$								✓
$\Delta\phi(j_i, j_k)$								✓
Year								✓