

Observable		FH			SL		DL	
		9-4	8-4	7-4	6-4	5-4	4-3	3-3
MEM	matrix element method discriminant	×	×	×	×, ○	×, ○	×	○
BLR	b tagging likelihood ratio discriminant						×	○
$\ln\left(\frac{\text{BLR}}{1-\text{BLR}}\right)$	transformed b tagging likelihood ratio discriminant				×	×		
$p_T(j^2)$	p_T of second leading jet, ranked in p_T						×	○
$p_T(j^3)$	p_T of third leading jet, ranked in p_T							×
$p_T(j^7)$	p_T of seventh leading jet, ranked in p_T	×						×
$p_T(b^i)$	p_T of i^{th} , $i=1-4$, leading b-tagged jet, ranked in p_T						×	○
$\eta(j^i)$	η of i^{th} , $i=1-2$, leading jet, ranked in b tag. discr. value	×	×	×				
$\langle d_b(j) \rangle$	average b tagging discriminant value of all jets				×	×		
$\langle d_b(b) \rangle$	average b tagging discriminant value of all b-tagged jets				×	×		
$d_b^3(j)$	third highest b tagging discriminant value of all jets				×	×		
$\text{Var}(d_b(j))$	variance of b tagging discriminant values of all jets				×	×		
$\langle \Delta R(\text{bb}) \rangle$	average of ΔR between two b-tagged jets				○	○	×	○
$\langle \Delta R(\text{jj}) \rangle$	average of ΔR between two jets	×	×					
$\min \Delta R(\text{jj})$	minimum of ΔR between two jets		×	×				×
$\max \Delta R(\text{jj})$	maximum of ΔR between two jets	×	×	×				×
$\langle \Delta \eta(\text{bb}) \rangle$	average of $\Delta \eta$ between two b-tagged jets				×	×		
$\langle \Delta \eta(\text{jj}) \rangle$	average of $\Delta \eta$ between two jets	×	×	×	×	×		
$\langle m(\text{b}) \rangle$	average invariant mass of all b-tagged jets				×	×		
$\langle m(\text{j}) \rangle$	average invariant mass of all jets				×	×		
$m(\text{bb}_{\min \Delta R})$	invariant mass of pair of b-tagged jets closest in ΔR				×	×	×	○
$m(\text{jb}_{\min \Delta R})$	invariant mass of pair of jet and b-tagged jet closest in ΔR						×	○
$m(\text{jj}_{125\text{GeV}})$	invariant mass of pair of jets with mass closest to 125 GeV	×					○	○
$m(\text{bb}_{\max m})$	maximum invariant mass of pairs of b-tagged jets	×	×				×	×
$m(\text{jb}_{\max p_T})$	inv. mass of jet and pair of b-tagged jets with highest p_T						×	○
$\langle p_T(j) \rangle$	average p_T of all jets				×	×		
$\langle p_T(\text{b}) \rangle$	average p_T of all b-tagged jets				×	×		
$p_T(\text{bb}_{\min \Delta R})$	p_T of pair of b-tagged jets closest in ΔR				×	×	×	×
$p_T(\text{jj}_{\min \Delta R})$	p_T of pair of jets closest in ΔR							×
$p_T(\text{jb}_{\min \Delta R})$	p_T of pair of jet and b-tagged jet closest in ΔR							×
$H_T(j)$	scalar sum of p_T of all jets				×	×	×	○
$H_T(\text{b})$	scalar sum of p_T of all b-tagged jets				×	×	×	○
$N(j)$	number of jets				×			
$N(\text{b}^{\text{loose}})$	number of jets with loose b tag						×	○
$d_b(\text{b}_t^{\text{tHW}})^{\dagger}$	b tagging discr. value of b jet from t quark from tHW reco.				×	×		
$p_T(\text{H}^i)^{\dagger}$	p_T of Higgs boson from $\text{t}\bar{\text{t}}\text{H}$, tHq, tHW reconstruction				○	○		
$\ln(\min \text{b}_t^{\text{tHq}})^{\dagger}$	log. of min. p_T of b jets from Higgs boson from tHq reco.				○	○		
$ \eta(\text{q}^{\text{tHq}})^{\dagger} $	$ \eta $ of light-quark jet from tHq reconstruction				×	×		
$\Delta R(\text{bb}_H^i)^{\dagger}$	ΔR of b jets from Higgs boson from $\text{t}\bar{\text{t}}\text{H}$, tHq, tHW reco.				○	○		
$m(\text{H}^i)^{\dagger}$	inv. mass of Higgs boson from $\text{t}\bar{\text{t}}\text{H}$ reconstruction				○	○		
$m(\text{t}_{\text{lep}}^{\text{t}\bar{\text{t}}\text{H}})^{\dagger}$	inv. mass of leptonically decaying t quark from $\text{t}\bar{\text{t}}\text{H}$ reco.				×	×		
$\text{BDT}^{\dagger\dagger}$	reconstruction BDT output for tHq, $\text{t}\bar{\text{t}}\text{H}$, $\text{t}\bar{\text{t}}$ hypotheses				×	×		
A, S	event aplanarity and sphericity [98]	×	×	×				
H_i^{FW}	i^{th} , $i=0-5$, Fox-Wolfram moment [99]	×	×	×				
$H_i^{\text{FW}}/H_0^{\text{FW}}$	ratio of Fox-Wolfram moments, $i=1-4$	×	×	×				