

Variable	Description
Variables independent of any reconstruction	
aplanarity	Aplanarity of the event
log m3	Invariant mass of three hardest jets in the event
Fox-Wolfram #1	First Fox-Wolfram moment of the event
q(ℓ)	Electric charge of the lepton
Variables based on objects reconstructed under the $t\bar{t}$ hypothesis	
log m(t_{had})	Invariant mass of t_{had}
CSV(W_{had} jet 1)	CSVv2 output of the hardest jet assigned to W_{had}
$\Delta R(W_{\text{had}}$ jets)	ΔR between the two jets from the decay of W_{had}
CSV(W_{had} jet 2)	CSVv2 output of the second hardest jet assigned to W_{had}
Variables based on objects reconstructed under the tHq hypothesis	
$\eta(\text{recoil jet})$	Absolute pseudorapidity of the recoil jet
CSV(Higgs jet 2)	CSVv2 output of the second hardest jet assigned to the Higgs boson
CSV(Higgs jet 1)	CSVv2 output of the hardest jet assigned to the Higgs boson
log $p_T(\text{recoil jet})$	Transverse momentum of the recoil jet
log $p_T(\text{Higgs})$	Transverse momentum of the Higgs boson
$\eta(\text{Higgs})$	Absolute pseudorapidity of the Higgs boson
cos $\theta(t, \ell)$	Cosine of the angle between the top quark momentum and the sum of top quark and charged lepton, in their common rest frame