

Event variable	Description
Object and event kinematics	
$\langle \Delta R_{\text{tag,tag}} \rangle$	Average ΔR between b-tagged jets
$\sum p_{T,\text{jets,leptons}}$	Sum of the p_T of all jets and leptons
$\tau_{\text{jet,jet}}^{\text{max mass}}$	Twist angle between jet pair
$\min \Delta R_{\text{tag,tag}}$	ΔR between the two closest b-tagged jets
$\max \Delta \eta_{\text{tag,tag}}$	$\Delta \eta$ between the two furthest b-tagged jets
$M_{\text{jet,jet}}^{\min \Delta R}$	Invariant mass of jet pair with minimum ΔR
$M_{\text{higgs-like}}^{\text{jj}}$	Invariant mass of a jet pair ordered in closeness to the Higgs mass
$M_{\text{tag,tag}}^{\min \Delta R}$	Mass of b-tagged jet pair with minimum ΔR
$p_{T,\text{tag,tag}}^{\min \Delta R}$	Sum of the p_T of b-tagged jet pair with minimum ΔR
Centrality (tags)	Ratio of the sum of the transverse momentum of all b-tagged jets and the sum of the energy of all b-tagged jets
Centrality (jets, leptons)	Ratio of the sum of the transverse momentum of all jets and leptons, and the sum of the energy of all jets and leptons
H_T	Scalar sum of transverse momentum for all jets
$\min \Delta R_{\text{jet,jet}}$	ΔR between the two closest jets
median $M_{\text{jet,jet}}$	Median invariant mass of all combinations of jet pairs
$M_{\text{tag,tag}}^{\text{max mass}}$	Mass for b-tagged jet pair with maximum invariant mass combination
$\langle \Delta R_{\text{jet,tag}} \rangle$	Average ΔR between jets (with at least one b-tagged jet)
$p_{T,\text{jet,tag}}^{\min \Delta R}$	Sum of the p_T of jet pair with minimum ΔR (with at least one b-tagged jet)
$\tau_{\text{jet,tag}}^{\text{max mass}}$	Twist angle between jet pair (with at least one b-tagged jet)
$m_{\text{jet,jet,jet}}^{\text{max } p_T}$	Invariant mass of the 3-jet system with the largest transverse momentum.
$M_{\text{higgs-like}}^{\text{bj}}$	Invariant mass of a jet pair (with at least one b-tagged jet) ordered in closeness to the Higgs mass
CSVv2 b-tag	
$\langle d \rangle_{\text{tagged/untagged}}$	Average CSVv2 b-tag discriminant value for b-tagged/unb-tagged jets
Event shape	
H_0, H_1, H_2, H_3, H_4	Fox-Wolfram moments [?]
$C(\text{jets})$	$3 (\lambda_1 \lambda_2 + \lambda_1 \lambda_3 + \lambda_2 \lambda_3)$ [?]