

Input	Variable	Description
Kinematics	p_{T} η	Jet p_{T} Jet $ \eta $
IP2D/IP3D	$\log(P_b/P_{\text{light}})$ $\log(P_b/P_c)$ $\log(P_c/P_{\text{light}})$	Likelihood ratio between the b -jet and light-flavour jet hypotheses Likelihood ratio between the b - and c -jet hypotheses Likelihood ratio between the c -jet and light-flavour jet hypotheses
SV1	$m(\text{SV})$ $f_E(\text{SV})$ $N_{\text{TrkAtVtx}}(\text{SV})$ $N_{2\text{TrkVtx}}(\text{SV})$ $L_{xy}(\text{SV})$ $L_{xyz}(\text{SV})$ $S_{xyz}(\text{SV})$ $\Delta R(\vec{p}_{\text{jet}}, \vec{p}_{\text{vtx}})(\text{SV})$	Invariant mass of tracks at the secondary vertex assuming pion mass Energy fraction of the tracks associated with the secondary vertex Number of tracks used in the secondary vertex Number of two-track vertex candidates Transverse distance between the primary and secondary vertex Distance between the primary and the secondary vertex Distance between the primary and the secondary vertex divided by its uncertainty ΔR between the jet axis and the direction of the secondary vertex relative to the primary vertex.
JETFITTER	$m(\text{JF})$ $f_E(\text{JF})$ $\Delta R(\vec{p}_{\text{jet}}, \vec{p}_{\text{vtx}})(\text{JF})$ $S_{xyz}(\text{JF})$ $N_{\text{TrkAtVtx}}(\text{JF})$ $N_{2\text{TrkVtx}}(\text{JF})$ $N_{1\text{-trk vertices}}(\text{JF})$ $N_{\geq 2\text{-trk vertices}}(\text{JF})$	Invariant mass of tracks from displaced vertices Energy fraction of the tracks associated with the displaced vertices ΔR between jet axis and vectorial sum of momenta of all tracks attached to displaced vertices Significance of average distance between PV and displaced vertices Number of tracks from multi-prong displaced vertices Number of two-track vertex candidates (prior to decay chain fit) Number of single-prong displaced vertices Number of multi-prong displaced vertices
JETFITTER c -tagging	$L_{xyz}(2^{\text{nd}}/3^{\text{rd}}\text{vtx})(\text{JF})$ $L_{xy}(2^{\text{nd}}/3^{\text{rd}}\text{vtx})(\text{JF})$ $m_{\text{Trk}}(2^{\text{nd}}/3^{\text{rd}}\text{vtx})(\text{JF})$ $E_{\text{Trk}}(2^{\text{nd}}/3^{\text{rd}}\text{vtx})(\text{JF})$ $f_E(2^{\text{nd}}/3^{\text{rd}}\text{vtx})(\text{JF})$ $N_{\text{TrkAtVtx}}(2^{\text{nd}}/3^{\text{rd}}\text{vtx})(\text{JF})$ $Y_{\text{trk}}^{\text{min}}, Y_{\text{trk}}^{\text{max}}, Y_{\text{trk}}^{\text{avg}}(2^{\text{nd}}/3^{\text{rd}}\text{vtx})(\text{JF})$	Distance of 2^{nd} or 3^{rd} vertex from PV Transverse displacement of the 2^{nd} or 3^{rd} vertex Invariant mass of tracks associated with 2^{nd} or 3^{rd} vertex Energy fraction of the tracks associated with 2^{nd} or 3^{rd} vertex Fraction of charged jet energy in 2^{nd} or 3^{rd} vertex Number of tracks associated with 2^{nd} or 3^{rd} vertex Min., max. and avg. track rapidity of tracks at 2^{nd} or 3^{rd} vertex