

Variable	Definition	$1\tau_h 0\ell$	$1\tau_h 1\ell$	$1\tau_h 2\ell$
$\sum D_b$	Sum of jet DEEPJET scores	1	—	—
p_T^{miss}	Missing transverse momentum	2 (3)	—	—
C	Event centrality	3 (4)	2 (1)	—
$\eta_{j_{\tau_h}}$	Pseudorapidity of jet matched to τ_h	4	—	1
$\Delta R^{\text{min}}(b, b)_M$	Minimum ΔR between medium b jets	5	5	(6)
D_b^1	DEEPJET score of leading jet	6	—	—
D_b^2	DEEPJET score of subleading jet	7	—	—
p_T^j	p_T of seventh jet	8	8	—
D_b^3	DEEPJET score of third jet	9	—	—
D_b^8	DEEPJET score of eighth jet	10	—	—
$m(b, b)_T$	Invariant mass of all tight b jets	(6)	1 (4)	—
$H_T^{1-4} / H_T^{\geq 5}$	Ratio of H_T of leading four jets to rest	—	3	—
$\Delta R^{\text{min}}(b, \tau_h)_M$	Minimum ΔR between medium b jet and τ_h	—	4	4 (8)
$m(b, b)_M$	Invariant mass of all medium b jets	—	6	—
N_{jet}	Jet multiplicity	—	7	—
$m_{T2}(\tau_h, \ell, p_T^{\text{miss}})$	m_{T2} of τ_h , lepton, and p_T^{miss}	—	9	10
$\Delta R^{\text{min}}(b, b)_T$	Minimum ΔR between tight b jets	—	10 (8)	(9)
N_b^M	Number of medium b jets	—	—	2
p_T^j	p_T of fifth jet	—	—	3
η_{ℓ_2}	Pseudorapidity of subleading lepton	—	—	5
$\Delta R(\tau_h, \ell_1)$	ΔR between τ_h and leading lepton	—	—	6 (2)
η_{ℓ_1}	Pseudorapidity of leading lepton	—	—	7
$\Delta R^{\text{min}}(j, j)$	Minimum ΔR between jets	—	—	8 (10)
p_T^{miss} / H_T	Ratio of p_T^{miss} to H_T	—	—	9 (3)
$p_T^{\tau_h}$	p_T of τ_h	(1)	(2)	—
MHT	Vector sum of jet p_T	(2)	(10)	—
$\sum_{i=1}^4 D_{b,i}$	Sum of four highest jet DEEPJET scores	(5)	—	—
$p_T^{b_{3,M}}$	p_T of third medium b jet	(7)	(6)	—
$p_T^{b_{2,M}}$	p_T of subleading medium b jet	(8)	—	—
$m_{T2}(b, b)_T$	m_{T2} of tight b jet pair and p_T^{miss}	(9)	—	—
$p_T^{b_{1,M}}$	p_T of leading medium b jet	(10)	—	—
$p_T^{b_{3,T}}$	p_T of third tight b jet	—	(3)	—
$p_T^{b_{1,T}}$	p_T of leading tight b jet	—	(5)	—
$m_T(\tau_h, p_T^{\text{miss}})$	Transverse mass of τ_h and p_T^{miss}	—	(7)	—
S	Sphericity	—	(9)	—
$m_T(\text{jets})$	Transverse mass of jet system	—	—	(1)
η_{j_2}	Pseudorapidity of subleading jet	—	—	(4)
$\Delta R^{\text{min}}(b, \ell)_M$	Minimum ΔR between medium b jet and lepton	—	—	(5)
$ \eta_{\tau_h} $	Absolute pseudorapidity of τ_h	—	—	(7)