Variable	Definition	SL (4 jets, ≥ 3 b tags)	SL (5 jets, ≥ 3 b tags)	SL (≥ 6 jets, ≥ 3 b tags)	DL (≥ 4 jets, 3 b tags)	DL (≥ 4 jets, ≥ 4 b tags)
$N_{\mathrm{b}}(\mathrm{tight})$	number of b-tagged jets at a working point with a 0.1% probability of tagging gluon and light-flavour jets	+	+	+	-	-
BLR	likelihood ratio discriminating between 4 b quark jets and 2 b quark jets events	+	+	+	-	-
$\mathrm{BLR}^{\mathrm{trans}}$	transformed BLR defined as $\ln[\mathrm{BLR}/(1.0-\mathrm{BLR})]$	+	+	+	-	-
$\Delta R_{\mathrm{j,j}}^{\mathrm{min}}$	ΔR between the two closest jets	+	+	+	-	-
$\Delta R_{\mathrm{b,b}}^{\mathrm{min}}$	ΔR between the two closest b-tagged jets	+	+	+	-	-
$\Delta R_{\mathrm{j,j}}^{\mathrm{max}}$	ΔR between the two jets furthest apart	-	+	-	-	-
$\Delta R_{\mathrm{b,b}}^{\mathrm{max}}$	ΔR between the two b-tagged jets furthest apart	-	-	+	-	-
$\Delta\eta_{\mathrm{j,j}}^{\mathrm{max}}$	$\Delta\eta$ between the two jets furthest apart in η	-	-	-	-	+
$\Delta\eta_{\mathrm{b,b}}^{\mathrm{max}}$	$\Delta\eta$ between the two b-tagged jets furthest apart in η	-	-	-	+	+
$\Delta\eta_{\mathrm{b,b}}^{\mathrm{avg}}$	average $\Delta\eta$ between b-tagged jets	-	-	+	-	-
$\Delta R_{\mathrm{b,b}}^{\mathrm{avg}}$	average ΔR between b-tagged jets	-	+	+	-	-
$\Delta R_{\mathrm{j,b}}^{\mathrm{avg}}$	average ΔR between jets of which at least one is b-tagged	-	-	-	+	-
$\Delta R_{\mathrm{lep,j}}^{\mathrm{min}\Delta R}$	ΔR between lepton and closest jet	+	+	-	-	-
$\Delta R_{\mathrm{lep,b}}^{\mathrm{min}\Delta R}$	ΔR between lepton and closest b-tagged jet	-	+	+	-	-
$m_{\mathrm{lep,b}}^{\mathrm{min}\Delta R}$	mass of lepton and closest b-tagged jet	+	+	+	-	-
$m_{\mathrm{b,b}}^{\mathrm{min}\Delta R}$	mass of closest b-tagged jets	+	+	+	-	+
$m_{\mathrm{j,b}}^{\mathrm{min}\Delta R}$	mass of closest jets of which at least one is b-tagged	-	-	-	+	-
$m_{\mathrm{b,b}}^{\mathrm{max\ mass}}$	maximal mass of pairs of b-tagged jets	-	-	-	+	+
$p_{\mathrm{T}\,\mathrm{b,b}}^{\mathrm{min}\Delta R}$	combined p_{T} of closest b-tagged jets	-	-	-	+	-
$p_{\mathrm{T}\,\mathrm{j,b}}^{\mathrm{min}\Delta R}$	combined p_{T} of closest jets of which at least one is b-tagged	-	-	-	-	+
$m_{\mathrm{j}}^{\mathrm{avg}}$	average mass of all jets	+	+	+	-	-
$(m^2)_{\mathrm{b}}^{\mathrm{avg}}$	average squared mass of all b-tagged jets	+	-	+	-	-
$m_{\mathrm{b,b}}^{\mathrm{closest\ to\ 125}}$	mass of pair of b-tagged jets closest to 125 GeV	-	+	+	-	-
$N^{\mathrm{j,b}}$	number of pairs of jets (with at least one b-tagged jet) with an invariant mass within 110–140 GeV	-	-	-	+	+
MEM	matrix element method discriminant	+	+	+	-	-