

Variable	Description
$p_{\text{T}}^i, p_{\text{T}}^j$	Magnitudes of the transverse momentum of the leading jets
$\eta_{j_1}, \eta_{j_2}$	Pseudorapidities of the two leading jets
$m_{\text{jj}}$	Invariant mass of the dijet system
$\Delta\eta_{\text{jj}}$	Pseudorapidity gap between the leading jets
$\phi_{j_1}, \phi_{j_2}$	Azimuthal angles of the two leading jets
$p_{\text{T}}^{\ell_1}, p_{\text{T}}^{\ell_2}$	Magnitudes of the transverse momentum of the leading leptons
$p_{\text{T}}^{\ell\ell}$	Magnitude of the transverse momentum of the dilepton system
$\eta_{\ell_1}, \eta_{\ell_2}$	Pseudorapidities of the two leading leptons
$\phi_{\ell_1}, \phi_{\ell_2}$	Azimuthal angles of the two leading leptons
$m_{\ell\ell}$	Invariant mass of the dilepton system
$\Delta\phi_{\ell\ell}, \Delta R_{\ell\ell}$	Angular and radial separations between the leading leptons
$m_{\ell j}$	Invariant mass of the lepton-jet system ( $\ell = \{\ell_1, \ell_2\}, j = \{j_1, j_2\}$ )
$C_{\text{tot}}$	Centrality, defined as $C_{\text{tot}} = \log\left(\sum_{\ell_1, \ell_2}  (2\eta_{\ell} - \sum_{j_1, j_2} \eta_j)  /  \Delta\eta_{\text{jj}} \right)$
$p_{\text{T}}^{\text{miss}}$	Missing transverse momentum
$qgl_{j_1}^l, qgl_{j_2}^l$	Quark-gluon likelihood discriminant for the two leading jets
$m_{\text{T}}$	Transverse mass built with $p_{\text{T}}^{\text{miss}}$ and $p_{\text{T}}^{\ell\ell}$
$m_{\text{T}}^{\ell_2}$	Transverse mass built with $p_{\text{T}}^{\text{miss}}$ and $p_{\text{T}}^{\ell_2}$
$\Delta\phi(\vec{p}_{\text{T}}^{\ell\ell}, \vec{p}_{\text{T}}^{\text{miss}})$	Azimuthal opening angle between $\vec{p}_{\text{T}}^{\ell\ell}$ and $\vec{p}_{\text{T}}^{\text{miss}}$
$H_{\text{T}}$	Hadronic activity, defined as the scalar sum of $p_{\text{T}}^j$ over all jets in the event
$\mathcal{D}_{\text{VBF,ggH}}^{(\text{ME})}$	ME-based discriminant separating the VBF and ggH productions
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$\mathcal{D}_{\text{VBF,DY}}^{(\text{ME})}$	ME-based discriminant separating the VBF and DY productions