

Invariant mass of $b\bar{b}$ system[†]; proxy for the mass of the $H \rightarrow b\bar{b}$ candidate

Invariant mass of $\ell\ell$ system ($m_{\ell\ell}$)

Invariant mass of the leptons and p_T^{miss} ; proxy for the mass of the $H \rightarrow WW$ candidate

Invariant mass of the b jets[†], leptons, and p_T^{miss} ; proxy for the mass of the HH system

Number of jets

Scalar sum of jet p_T (H_T)

p_T of jet with highest b tagging score

p_T of jet with second-highest b tagging score

p_T of leading jet that is not considered as part of the $b\bar{b}$ system[†]

p_T of the $b\bar{b}$ system[†]

Sum of b tagging scores of all jets

p_T of leading lepton

p_T of subleading lepton

p_T of the $\ell\ell$ system

η of leading jet that is not considered as part of the $b\bar{b}$ system[†]

Maximum ΔR between jets

ΔR between jets of $b\bar{b}$ system[†]

ΔR between leptons

ΔR between $b\bar{b}$ system[†] and $\ell\ell$ system

Minimum ΔR between lepton and b-tagged jet

p_T^{miss}

Binary tag of lepton flavour combinations: same flavour or mixed flavour

Binary VBF tag based on the presence of a VBF jet pair[‡]

[†] two jets with highest b tagging scores; in events with only one jet, the observable is assigned a non-physical default value of -10

[‡] only used in NN_{VBF}