

Observable	$t\bar{t}H$ hadronic	$t\bar{t}H$ leptonic
Number of b quark jets	$>0$ medium or $>1$ loose b-tagged jets	
Number of leptons ( $N(\ell = \mu, e)$ )	$=2$	$=3$ or $4$
Lepton charge ( $q(\ell)$ )	$\sum q(\ell) = 0$	$N(\ell) = 3 (4) \rightarrow \sum q(\ell) = \pm 1 (0)$
Jet multiplicity ( $p_T > 25 \text{ GeV},  \eta  < 4.7$ )	$\geq 3$	$\geq 2$
Leading jet $p_T$	$>50 \text{ GeV}$	$>35 \text{ GeV}$
Z boson veto	—	$ m_{\ell\ell} - m_Z  > 10 \text{ GeV}$
Low-mass resonance veto	—	$m_{\ell\ell} > 12 \text{ GeV}$
Jet triplet mass	$100 < m_{jjj} < 300 \text{ GeV}$	—