

Final state	Category	Selection	Observables
$\ell\tau_h, e\mu$	0-jet	0 jet	$m_{\tau\tau}, \tau_h p_T (\ell\tau_h)$ $m_{\tau\tau} (e\mu)$
	VBF low p_T^H	≥ 2 jets, $m_{jj} > 350$ GeV, $p_T^H < 200$ GeV	$m_{\tau\tau}, m_{jj}$
	VBF high p_T^H	≥ 2 jets, $m_{jj} > 350$ GeV, $p_T^H > 200$ GeV	$m_{\tau\tau}, m_{jj}$
	Boosted 1 jet	1 jet	$m_{\tau\tau}, p_T^H$
	Boosted ≥ 2 jets	Not in VBF, ≥ 2 jets	$m_{\tau\tau}, p_T^H$
$\tau_h\tau_h$	0-jet	0 jet	$m_{\tau\tau}$
	VBF low p_T^H	≥ 2 jets, $\Delta\eta_{jj} > 2.5$ (2.0 for 2016), $100 < p_T^H < 200$ GeV	$m_{\tau\tau}, m_{jj}$
	VBF high p_T^H	≥ 2 jets, $\Delta\eta_{jj} > 2.5$ (2.0 for 2016), $p_T^H > 200$ GeV	$m_{\tau\tau}, m_{jj}$
	Boosted 1 jet	1 jet	$m_{\tau\tau}, p_T^H$
	Boosted ≥ 2 jets	Not in VBF, ≥ 2 jets	$m_{\tau\tau}, p_T^H$