

	Category and decay mode	Final state class and substructure
Signal	$H \rightarrow WW$ fully hadronic	$3q(0c), 3q(1c), 3q(2c), 4q(0c), 4q(1c), 4q(2c)$ $e\nu qq(0c), e\nu qq(1c), \mu\nu qq(0c), \mu\nu qq(1c)$
	$H \rightarrow WW$ semileptonic	$e3\nu qq(0c), e3\nu qq(1c), \mu3\nu qq(0c), \mu3\nu qq(1c),$ $\tau\nu qq(0c), \tau\nu qq(1c)$
Background	$t \rightarrow bW$ hadronic	$bq(0c), bq(1c), bqq(0c), bqq(1c)$
	$t \rightarrow bW$ leptonic	$b e\nu, b\mu\nu, b\tau_h\nu, b\tau_e\nu, b\tau_\mu\nu$
	$H, Z, W \rightarrow qq$	$bb, cc, qq \text{ (} q = u/d \text{)}, ss$
	$H, Z \rightarrow \tau\tau$	$\tau_h\tau_h, \tau_h\tau_e, \tau_h\tau_\mu$
	QCD	$b, bb, c, cc, \text{ others (light } q \text{ and gluon)}$