

Production and decay tags		Expected tagged signal fraction	Number of categories	Mass resolution
<b>H <math>\rightarrow \gamma\gamma</math>, Section ??</b>				
$\gamma\gamma$	Untagged	74-91% ggH	4	$\approx 1\text{-}2\%$
	VBF	51-80% VBF	3	
	VH hadronic	25% WH, 15% ZH	1	
	WH leptonic	64-83% WH	2	
	ZH leptonic	98% ZH	1	
	VH $p_T^{\text{miss}}$	59% VH	1	
ttH	80-89% ttH, $\approx 8\%$ tH	2		
<b>H <math>\rightarrow ZZ^{(*)} \rightarrow 4\ell</math>, Section ??</b>				
$4\mu, 2e2\mu/2\mu 2e, 4e$	Untagged	$\approx 95\%$ ggH	3	$\approx 1\text{-}2\%$
	VBF 1, 2-jet	$\approx 11\text{-}47\%$ VBF	6	
	VH hadronic	$\approx 13\%$ WH, $\approx 10\%$ ZH	3	
	VH leptonic	$\approx 46\%$ WH	3	
	VH $p_T^{\text{miss}}$	$\approx 56\%$ ZH	3	
	ttH	$\approx 71\%$ ttH	3	
<b>H <math>\rightarrow WW^{(*)} \rightarrow \ell\nu\ell\nu</math>, Section ??</b>				
$e\mu/\mu e$ $ee+\mu\mu$ $e\mu+jj$ $3\ell$ $4\ell$	ggH 0, 1, 2-jet	$\approx 55\text{-}92\%$ ggH, up to $\approx 15\%$ H $\rightarrow \tau\tau$	17	$\approx 20\%$
	VBF 2-jet	$\approx 47\%$ VBF, up to $\approx 25\%$ H $\rightarrow \tau\tau$	2	
	ggH 0, 1-jet	$\approx 84\text{-}94\%$ ggH	6	
	VH 2-jet	22% VH, 21% H $\rightarrow \tau\tau$	1	
	WH leptonic	$\approx 80\%$ WH, up to 19% H $\rightarrow \tau\tau$	2	
	ZH leptonic	85-90% ZH, up to 14% H $\rightarrow \tau\tau$	2	
<b>H <math>\rightarrow \tau\tau</math>, Section ??</b>				
$e\mu, e\tau_h, \mu\tau_h, \tau_h\tau_h$	0-jet	$\approx 70\text{-}98\%$ ggH, 29% H $\rightarrow WW$ in $e\mu$	4	$\approx 10\text{-}20\%$
	VBF	$\approx 35\text{-}60\%$ VBF, 42% H $\rightarrow WW$ in $e\mu$	4	
	Boosted	$\approx 48\text{-}83\%$ ggH, 43% H $\rightarrow WW$ in $e\mu$	4	
<b>VH production with H <math>\rightarrow bb</math>, Section ??</b>				
Z( $\nu\nu$ )bb	ZH leptonic	$\approx 100\%$ VH, 85% ZH	1	$\approx 10\%$
W( $\ell\nu$ )bb	WH leptonic	$\approx 100\%$ VH, $\approx 97\%$ WH	2	
Z( $\ell\ell$ )bb	Low $p_T$ (V) ZH leptonic	$\approx 100\%$ ZH, of which $\approx 20\%$ ggZH	2	
	High $p_T$ (V) ZH leptonic	$\approx 100\%$ ZH, of which $\approx 36\%$ ggZH	2	
<b>Boosted H Production with H <math>\rightarrow bb</math>, Section ??</b>				
H $\rightarrow bb$	$p_T$ (H) bins	$\approx 72\text{-}79\%$ ggH	6	$\approx 10\%$
<b>ttH production with H <math>\rightarrow</math> leptons, Section ??</b>				
H $\rightarrow WW, \tau\tau, ZZ$	$2\ell ss$	WW/ $\tau\tau \approx 4.5$ , $\approx 5\%$ tH	10	
	$3\ell$	WW : $\tau\tau$ : ZZ $\approx 15 : 4 : 1$ , $\approx 5\%$ tH	4	
	$4\ell$	WW : $\tau\tau$ : ZZ $\approx 6 : 1 : 1$ , $\approx 3\%$ tH	1	
	$1\ell+2\tau_h$	96% ttH with H $\rightarrow \tau\tau$ , $\approx 6\%$ tH	1	
	$2\ell ss+1\tau_h$	$\tau\tau$ : WW $\approx 5 : 4$ , $\approx 5\%$ tH	2	
	$3\ell+1\tau_h$	$\tau\tau$ : WW : ZZ $\approx 11 : 7 : 1$ , $\approx 3\%$ tH	1	
<b>ttH production with H <math>\rightarrow bb</math>, Section ??</b>				
H $\rightarrow bb$	$t\bar{t} \rightarrow$ jets	$\approx 83\text{-}97\%$ ttH with H $\rightarrow bb$	6	$\approx 10\%$
	$t\bar{t} \rightarrow 1\ell$ +jets	$\approx 65\text{-}95\%$ ttH with H $\rightarrow bb$ , up to 20% H $\rightarrow WW$	18	
	$t\bar{t} \rightarrow 2\ell$ +jets	$\approx 84\text{-}96\%$ ttH with H $\rightarrow bb$	3	
<b>H <math>\rightarrow \mu\mu</math>, Section ??</b>				
$\mu\mu$	S/B bins	56-96% ggH, 1-42% VBF	15	$\approx 1\text{-}2\%$
<b>Search for invisible H decays, Section ??</b>				
H $\rightarrow$ inv.	VBF	52% VBF, 48% ggH	1	
	ggH + $\geq 1$ jet	80% ggH, 9% VBF	1	
	VH hadronic	54% VH, 39% ggH	1	
	ZH leptonic	$\approx 100\%$ ZH, of which 21% ggZH	1	