

Analysis	Decay tags	Production tags
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$H \rightarrow \gamma\gamma$ [42]	$\gamma\gamma$	ggH, $p_T(H) \times N_j$ bins VBF/VH hadronic, $p_T(H_{jj})$ bins WH leptonic, $p_T(V)$ bins ZH leptonic
$H \rightarrow ZZ \rightarrow 4\ell$ [43]	$4\mu, 2e2\mu, 4e$	ttH $p_T(H)$ bins, tH ggH, $p_T(H) \times N_j$ bins VBF, m_{ij} bins VH hadronic VH leptonic, $p_T(V)$ bins
$H \rightarrow WW \rightarrow \ell\nu\ell\nu$ [44]	$e\mu/ee/\mu\mu$ $\mu\mu+jj/ee+jj/e\mu+jj$	ttH ggH ≤ 2 -jets VBF VH hadronic WH leptonic ZH leptonic
$H \rightarrow Z\gamma$ [45]	$Z\gamma$	ggH VBF
$H \rightarrow \tau\tau$ [46]	$e\mu, e\tau_h, \mu\tau_h, \tau_h\tau_h$	ggH, $p_T(H) \times N_j$ bins VH hadronic VBF
$H \rightarrow b\bar{b}$ [47–51]	$W(\ell\nu)H(b\bar{b})$ $Z(\nu\nu)H(b\bar{b}), Z(\ell\ell)H(b\bar{b})$ $b\bar{b}$	VH, high- $p_T(V)$ WH leptonic ZH leptonic ttH, $\rightarrow 0, 1, 2\ell + \text{jets}$ ggH, high- $p_T(H)$ bins
$H \rightarrow \mu\mu$ [52]	$\mu\mu$	ggH VBF
ttH production with $H \rightarrow \text{leptons}$ [53]	$2\ell SS, 3\ell, 4\ell,$ $1\ell + \tau_h, 2\ell SS+1\tau_h, 3\ell + 1\tau_h$	ttH
$H \rightarrow \text{Inv.}$ [71, 72]	p_T^{miss}	ggH VBF VH hadronic ZH leptonic
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Higgs boson pair production		
$HH \rightarrow b\bar{b}b\bar{b}$ [57, 58]	$H(b\bar{b})H(b\bar{b})$	ggHH, VBFHH (resolved, boosted)
$HH \rightarrow b\bar{b}\tau\tau$ [59]	$H(b\bar{b})H(\tau\tau)$	ggHH, VBFHH
$HH \rightarrow \text{leptons}$ [60]	$H(WW)H(WW), H(WW)H(\tau\tau), H(\tau\tau)H(\tau\tau)$	ggHH, VBFHH
$HH \rightarrow b\bar{b}\gamma\gamma$ [61]	$H(b\bar{b})H(\gamma\gamma)$	ggHH, VBFHH
$HH \rightarrow b\bar{b}ZZ$ [62]	$H(b\bar{b})H(ZZ)$	ggHH