Input analysis	Decay tags	Production tags	Process granularity	References
$H \to \gamma\gamma$	$\gamma\gamma$	ggH, p_T^H x N-jet + BSM bins VBF, m_{jj} x p_T^{Hjj} + BSM bins VH hadronic WH leptonic, p_T^V bins ZH leptonic ttH, p_T^H bins tH	STXS stage 1.2	[39]
$H \to ZZ \to 4\ell$	4μ, 2e2μ, 4e	ggH, p_T^H x N-jet + BSM bins VBF, m_{jj} x N-jet + BSM bins VH hadronic VH leptonic, p_T^V bins ttH	STXS stage 1.2	[40]
$H \to WW \to \ell\nu\ell\nu$	eμ/μe, ee+$\mu\mu$, eμ+jj 3ℓ, 4ℓ	ggH, p_T^H x N-jet + BSM bins VBF-like m_{jj} + BSM bins VH hadronic WH leptonic ZH leptonic	STXS stage 1.2	[41]
$H \to \tau\tau$	eμ, eτ_h, $\mu\tau_h$, $\tau_h\tau_h$	ggH, p_T^H x N-jet + BSM bins VBF, m_{jj} x N-jet + BSM WH leptonic, p_T^V bins ZH leptonic, p_T^V bins	Inclusive production mode STXS stage 1.2	[42]
$H \to bb$ boosted	bb	ggH, high p_T^H bins VBF, high p_T^H bins	Inclusive production mode STXS stage 1.2	[26]
VBF ($H \to bb$)	bb	VBF, resolved	Inclusive production mode	[25]
VH ($H \to bb$)	bb	WH leptonic, p_T^V bins ZH leptonic, p_T^V bins	STXS stage 1.2	[29]
ttH ($H \to bb$)	bb	ttH, p_T^H bins tH	Inclusive production mode STXS stage 1.2	[30]
ttH ($H \to$ leptons)	2ℓ(ss), 3ℓ, 4ℓ 1ℓ+2τ_h, 2ℓ(ss)+1τ_h, 3ℓ+1τ_h	ttH, tH	STXS stage 1.2	[43]
$H \to \mu\mu$	$\mu\mu$	ggH, VBF, VH, ttH	Inclusive production mode	[44]
$H \to Z\gamma$	$\ell^+\ell^-\gamma$	ggH, VBF	Inclusive production mode	[45]
$H \to$ inv	MET	Mono-jet VBF VH leptonic VH/ttH hadronic	Inclusive production mode	[46,47,48,28]
Offshell ($H \to ZZ \to 4\ell$)	$H \to ZZ \to 4\ell$	Offshell production	Offshell production contributions (see Eq. **??**)	[27]