

Facility	LHC	HL-LHC	$e^+e^-$	$e^+e^-$	$e^+e^-$	$\mu^+\mu^-$	$\gamma\gamma$	target
Energy (GeV)	14,000	14,000	250	500	other	?	126	(theory)
$\int \mathcal{L} dt$ (fb $^{-1}$ )	300/expt	3000/expt	250	500	other	?	?	
spin-2 $_m^+$	$\sim 10\sigma$	$\gg 10\sigma$	$>10\sigma$	$>10\sigma$		✓	✓	$>5\sigma$
...	...	...	...	...	...	...	...	
$ZZH$	0.07 $^\dagger$	0.02 $^\dagger$	0.0008	0.00005		✓	✓	$< 10^{-5}$
$WWH$	✓	✓	✓	✓		✓	✓	$< 10^{-5}$
$ggH$	?	?	—	—		—	—	$< 10^{-2}$
$\gamma\gamma H$	—	?	—	—		—	$< 0.01$	$< 10^{-2}$
$Z\gamma H$	—	?	—	—		—	—	$< 10^{-2}$
$\tau\tau H$	?	?	0.01	0.01		✓	✓	$< 10^{-2}$
$t\bar{t}H$	✓	✓	—	✓		—	—	$< 10^{-2}$
$\mu\mu H$	—	—	—	—		✓	—	$< 10^{-2}$
$b\bar{b}H$	—	?	?	?		—	—	$< 10^{-2}$

$^\dagger$  estimated only in  $H \rightarrow ZZ^*$  decay mode.