

Process	Discriminant	Main goal
ggH	$\mathcal{D}_{0-}^{ggH}$	Separate between $CP$ -even, $CP$ -odd and mixed $CP$ scenarios
ggH	$\mathcal{D}_{CP}^{ggH}$	Differentiate the interference between $CP$ -even and $CP$ -odd contributions
ggH	$\mathcal{D}_{STXS}^{ggH}$	Separate H signal from nonresonant backgrounds
ggH	$\mathcal{D}_{bkg}^{ggH+2jets}$	Separate between (SM and $CP$ -odd) ggH + 2 jets signal from resonant and nonresonant background
ggH	$\mathcal{D}_{BSM}^{ggH+2jets}$	Separate between BSM $CP$ -odd ggH + 2 jets signal from SM and resonant and nonresonant backgrounds