Production mode	Discriminant	Main goal
ggH	$\mathcal{D}_{0-}^{\mathrm{ggH}}$	separate between CP-even, CP-odd and mixed CP scenarios
ggH	$\mathcal{D}_{\mathrm{CP}}^{\mathrm{ggH}}$	differentiate the interference between CP-even and CP-odd
ggH	$\mathcal{D}_{\mathrm{STXS}}^{\mathrm{ggH}}$	separate H signal from non-resonant backgrounds
ggH	$\mathcal{D}_{\mathrm{bkg}}^{\mathrm{ggH+2jets}}$	separate between (SM and CP-odd) ggH + 2 jets signal from resonant and non resonant background
ggH	$\mathcal{D}_{\mathrm{BSM}}^{\mathrm{ggH+2jets}}$	separate between BSM CP-odd ggH + 2 jets signal from SM and resonant and non-resonant background