

## Classes/Categories per final state

Process	$e\mu$	$e\tau_h$	$\mu\tau_h$	$\tau_h\tau_h$
$gg \rightarrow H$	ggH (0.20)	ggH (0.23)	ggH (0.27)	ggH (0.54)
VBF	qqH (0.74)	qqH (0.72)	qqH (0.72)	qqH (0.57)
$Z \rightarrow \tau\tau$	ztt (0.52)	ztt (0.66)	ztt (0.63)	ztt (0.62)
QCD	qcd (0.45)	qcd (0.21)	qcd (0.17)	qcd (0.48)
$t\bar{t}$	tt (0.55)	tt (0.79)	tt (0.75)	
$Z \rightarrow \ell\ell$		zll (0.55)	zll (0.53)	
$W+\text{jets}$	misc (0.24)	wj (0.43)	wj (0.51)	misc (0.45)
Diboson	db (0.46)			
Single t	st (0.30)	misc (0.21)	misc (0.28)	