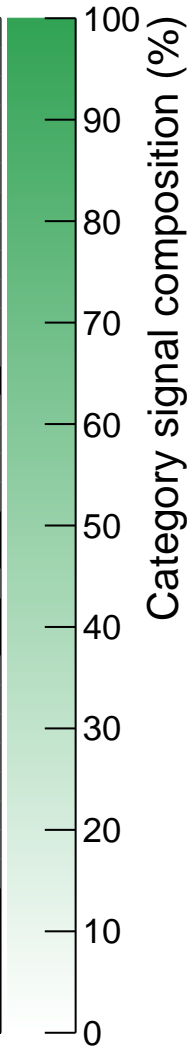


CMS Simulation $H \rightarrow \gamma\gamma$

(13 TeV)

Analysis category

ttH lep $p_T^{\gamma\gamma} > 300$					1	1	1			1						1	1	1	7	10	9	8	1	4	7	8	9	30	
ttH lep $200 < p_T^{\gamma\gamma} < 300$								1											1	2	10	5				7	62	12	
ttH lep $120 < p_T^{\gamma\gamma} < 200$																			1	1	2	2			1	86	1	8	
ttH lep $60 < p_T^{\gamma\gamma} < 120$																			1	1	2	2			1	85	2	5	
ttH lep $p_T^{\gamma\gamma} < 60$																								1	93	2		3	
ttH had $p_T^{\gamma\gamma} > 300$																									93	3		2	
ttH had $200 < p_T^{\gamma\gamma} < 300$																											1	62	16
ttH had $120 < p_T^{\gamma\gamma} < 200$																											1	78	9
ttH had $60 < p_T^{\gamma\gamma} < 120$																										1	83	2	6
ttH had $p_T^{\gamma\gamma} < 60$																										1	91	3	2
VH MET																										93	3		2
ZH lep																													2
WH lep $p_T^V > 150$																													1
WH lep $75 < p_T^V < 150$																													1
WH lep $p_T^V < 75$																													1
qqH VH-like																													2
qqH BSM																													2
qqH high m_{ij} high $p_T^{H_{ij}}$																													1
qqH low m_{ij} high $p_T^{H_{ij}}$																													1
qqH high m_{ij} low $p_T^{H_{ij}}$																													1
qqH low m_{ij} low $p_T^{H_{ij}}$																													1
ggH VBF-like																													1
BSM $p_T^{\gamma\gamma} > 650$																													1
BSM $450 < p_T^{\gamma\gamma} < 650$																													1
BSM $300 < p_T^{\gamma\gamma} < 450$																													1
BSM $200 < p_T^{\gamma\gamma} < 300$																													1
$\geq 2J$ high $p_T^{\gamma\gamma}$																													1
$\geq 2J$ med $p_T^{\gamma\gamma}$																													1
$\geq 2J$ low $p_T^{\gamma\gamma}$																													1
1J high $p_T^{\gamma\gamma}$																													1
1J med $p_T^{\gamma\gamma}$																													1
1J low $p_T^{\gamma\gamma}$																													1
0J high $p_T^{\gamma\gamma}$																													1
0J low $p_T^{\gamma\gamma}$																													1
ggH 0J low p_T^H																													1
ggH 0J high p_T^H																													1
ggH 1J low p_T^H																													1
ggH 1J med p_T^H																													1
ggH 1J high p_T^H																													1
ggH $\geq 2J$ low p_T^H																													1
ggH $\geq 2J$ med p_T^H																													1
ggH $\geq 2J$ high p_T^H																													1
ggH BSM $200 < p_T^H < 300$																													1
ggH BSM $300 < p_T^H < 450$																													1
ggH BSM $p_T^H > 450$																													1
ggH VBF-like																													1
qqH rest																													1
qqH VBF-like low m_{ij} low $p_T^{H_{ij}}$																													1
qqH VBF-like high m_{ij} low $p_T^{H_{ij}}$																													1
qqH VBF-like low m_{ij} high $p_T^{H_{ij}}$																													1
qqH VBF-like high m_{ij} high $p_T^{H_{ij}}$																													1
qqH BSM																													1
qqH VH-like																													1
WH lep $p_T^V < 75$																													1
WH lep $75 < p_T^V < 150$																													1
WH lep $p_T^V > 150$																													1
ZH lep																													1
ttH $p_T^H < 60$																													1
ttH $60 < p_T^H < 120$																													1
ttH $120 < p_T^H < 200$																													1
ttH $200 < p_T^H < 300$																													1
ttH $p_T^H > 300$																													1



STXS stage 1.2 bins (reduced)