

Analysis categories	SM 125 GeV Higgs boson expected signal									S/S+B
	Total Yield	Target Fraction	Production Mode Fractions						σ_{eff} (GeV)	
			ggH	qqH	VH lep	ttH	tHq	tHW		
ttHq lep	3.0	17.5%	4.2%	0.8%	26.3%	44.5%	17.5%	6.7%	1.55	0.65
ttH lep low $p_T^{\gamma\gamma}$ Tag0	0.3	93.4%	-	-	-	99.3%	0.5%	0.1%	1.15	0.89
ttH lep low $p_T^{\gamma\gamma}$ Tag1	0.3	93.7%	-	-	0.4%	98.2%	0.9%	0.5%	1.59	0.63
ttH lep low $p_T^{\gamma\gamma}$ Tag2	0.7	94.2%	-	-	0.3%	97.8%	1.2%	0.6%	1.58	0.41
ttH lep low $p_T^{\gamma\gamma}$ Tag3	1.5	90.8%	-	-	2.3%	94.7%	2.1%	0.9%	1.82	0.29
ttH lep med-low $p_T^{\gamma\gamma}$ Tag0	3.8	93.0%	-	-	0.9%	96.2%	1.7%	1.1%	1.81	0.43
ttH lep med-low $p_T^{\gamma\gamma}$ Tag1	1.4	82.9%	0.6%	0.2%	7.8%	86.6%	3.3%	1.7%	1.91	0.16
ttH lep med-high $p_T^{\gamma\gamma}$ Tag0	4.2	90.6%	0.2%	-	2.5%	93.2%	2.0%	2.1%	1.78	0.56
ttH lep med-high $p_T^{\gamma\gamma}$ Tag1	1.1	64.5%	1.2%	0.3%	26.3%	66.1%	3.3%	2.7%	1.78	0.18
ttH lep high $p_T^{\gamma\gamma}$ Tag0	3.3	87.5%	0.3%	-	4.0%	88.6%	2.2%	5.0%	1.46	0.76
ttH lep high $p_T^{\gamma\gamma}$ Tag1	0.4	55.5%	0.2%	0.3%	34.9%	56.2%	2.7%	5.7%	1.62	0.30
ttH had low $p_T^{\gamma\gamma}$ Tag0	1.7	95.9%	0.2%	-	-	98.2%	1.2%	0.4%	1.66	0.38
ttH had low $p_T^{\gamma\gamma}$ Tag1	1.0	92.1%	0.9%	1.1%	-	94.9%	2.2%	0.6%	1.78	0.20
ttH had low $p_T^{\gamma\gamma}$ Tag2	0.4	90.9%	0.7%	1.4%	0.4%	93.9%	2.9%	0.7%	1.53	0.23
ttH had low $p_T^{\gamma\gamma}$ Tag3	1.9	84.6%	3.6%	3.6%	0.2%	88.0%	3.9%	0.8%	1.87	0.08
ttH had med-low $p_T^{\gamma\gamma}$ Tag0	1.5	94.1%	-	0.1%	-	98.2%	1.1%	0.6%	1.55	0.71
ttH had med-low $p_T^{\gamma\gamma}$ Tag1	1.9	94.1%	0.1%	0.5%	-	96.7%	1.9%	0.7%	1.75	0.37
ttH had med-low $p_T^{\gamma\gamma}$ Tag2	1.9	90.3%	1.4%	2.1%	-	92.7%	2.9%	0.9%	1.87	0.24
ttH had med-low $p_T^{\gamma\gamma}$ Tag3	3.3	83.5%	4.1%	3.8%	0.1%	86.0%	4.9%	1.1%	1.93	0.12
ttH had med-high $p_T^{\gamma\gamma}$ Tag0	2.4	93.9%	0.5%	0.4%	-	96.2%	1.8%	1.1%	1.54	0.73
ttH had med-high $p_T^{\gamma\gamma}$ Tag1	3.5	83.9%	4.6%	2.5%	-	86.8%	4.4%	1.7%	1.79	0.35
ttH had med-high $p_T^{\gamma\gamma}$ Tag2	1.6	74.2%	8.2%	5.2%	0.7%	76.8%	7.2%	2.0%	1.72	0.21
ttH had med-high $p_T^{\gamma\gamma}$ Tag3	2.8	54.4%	22.1%	10.9%	0.6%	56.4%	8.2%	1.8%	1.84	0.12
ttH had high $p_T^{\gamma\gamma}$ Tag0	3.4	86.7%	2.8%	0.4%	-	87.1%	5.3%	4.4%	1.55	0.79
ttH had high $p_T^{\gamma\gamma}$ Tag1	1.6	71.9%	10.8%	3.2%	0.6%	72.6%	7.6%	5.2%	1.53	0.55
ttH had high $p_T^{\gamma\gamma}$ Tag2	1.9	64.3%	14.5%	6.4%	0.7%	64.6%	8.9%	4.9%	1.53	0.56
ttH had high $p_T^{\gamma\gamma}$ Tag3	1.5	50.7%	25.2%	8.7%	1.5%	51.0%	9.1%	4.5%	1.39	0.57