

STXS stage 1.2: minimal merging scheme

Parameters	$\sigma\mathcal{B}$ [fb]					$\sigma\mathcal{B}/(\sigma\mathcal{B})_{\text{SM}}$	
	SM prediction	Observed (Expected)				Observed	(Expected)
	($m_H = 125.38$ GeV)	Best fit	Stat unc.	Syst unc.		Best fit	
ggH 0J low p_T^H	15.22 $^{+3.81}_{-3.87}$	6.54 $^{+4.29}_{-4.22}$ ($^{+4.40}_{-4.29}$)	+4.26 (-4.37) -4.20 (-4.28)	+0.46 (+0.49) -0.29 (-0.33)		0.43 $^{+0.28}_{-0.28}$ ($^{+0.29}_{-0.28}$)	
ggH 0J high p_T^H	44.27 $^{+4.55}_{-4.36}$	56.80 $^{+7.13}_{-8.46}$ ($^{+8.37}_{-8.32}$)	+6.82 (+8.15) -8.41 (-8.15)	+2.13 (+1.86) -2.30 (-1.64)		1.28 $^{+0.16}_{-0.19}$ ($^{+0.19}_{-0.19}$)	
ggH 1J low p_T^H	16.21 $^{+2.33}_{-2.34}$	11.72 $^{+5.62}_{-5.62}$ ($^{+8.14}_{-6.17}$)	+5.57 (+7.99) -5.59 (-6.16)	+0.75 (+1.52) -0.57 (-0.36)		0.72 $^{+0.35}_{-0.35}$ ($^{+0.50}_{-0.38}$)	
ggH 1J med p_T^H	11.22 $^{+1.58}_{-1.57}$	10.30 $^{+3.14}_{-3.10}$ ($^{+3.33}_{-3.24}$)	+3.06 (+3.26) -3.05 (-3.20)	+0.71 (+0.72) -0.55 (-0.54)		0.92 $^{+0.28}_{-0.28}$ ($^{+0.30}_{-0.29}$)	
ggH 1J high p_T^H	2.00 $^{+0.40}_{-0.40}$	2.78 $^{+0.92}_{-0.89}$ ($^{+0.94}_{-0.91}$)	+0.90 (+0.92) -0.87 (-0.90)	+0.21 (+0.19) -0.15 (-0.11)		1.39 $^{+0.46}_{-0.44}$ ($^{+0.47}_{-0.45}$)	
ggH ≥ 2 J low p_T^H	2.82 $^{+0.69}_{-0.69}$	5.92 $^{+4.69}_{-3.76}$ ($^{+4.07}_{-2.82}$)	+4.59 (+4.00) -3.73 (-2.82)	+0.93 (+0.72) -0.43 (-0.72)		2.10 $^{+1.66}_{-1.33}$ ($^{+1.44}_{-1.00}$)	
ggH ≥ 2 J med p_T^H	4.54 $^{+1.06}_{-1.06}$	3.16 $^{+2.59}_{-2.52}$ ($^{+2.82}_{-2.65}$)	+2.56 (+2.76) -2.52 (-2.65)	+0.44 (+0.56) -0.44 (-0.56)		0.70 $^{+0.57}_{-0.56}$ ($^{+0.62}_{-0.58}$)	
ggH ≥ 2 J high p_T^H	2.12 $^{+0.55}_{-0.55}$	0.66 $^{+1.03}_{-0.66}$ ($^{+1.10}_{-1.08}$)	+1.03 (+1.09) -0.66 (-1.08)	+0.08 (+0.14) -0.08 (-0.06)		0.31 $^{+0.49}_{-0.31}$ ($^{+0.52}_{-0.51}$)	
ggH 200 < p_T^H < 300	1.10 $^{+0.27}_{-0.27}$	0.98 $^{+0.46}_{-0.43}$ ($^{+0.48}_{-0.45}$)	+0.44 (+0.47) -0.42 (-0.45)	+0.12 (+0.10) -0.08 (-0.06)		0.89 $^{+0.42}_{-0.39}$ ($^{+0.44}_{-0.41}$)	
ggH $p_T^H > 300$	0.33 $^{+0.11}_{-0.11}$	0.39 $^{+0.19}_{-0.17}$ ($^{+0.20}_{-0.18}$)	+0.18 (+0.19) -0.17 (-0.18)	+0.03 (+0.03) -0.02 (-0.03)		1.20 $^{+0.57}_{-0.52}$ ($^{+0.60}_{-0.56}$)	
VBF-like low m_{jj} low p_T^{Hjj}	1.58 $^{+0.40}_{-0.37}$	2.20 $^{+1.10}_{-1.07}$ ($^{+1.14}_{-1.08}$)	+1.08 (+1.13) -1.07 (-1.07)	+0.06 (+0.16) -0.06 (-0.07)		1.39 $^{+0.69}_{-0.68}$ ($^{+0.72}_{-0.68}$)	
VBF-like low m_{jj} high p_T^{Hjj}	1.26 $^{+0.28}_{-0.24}$	0.42 $^{+1.52}_{-0.42}$ ($^{+1.54}_{-1.26}$)	+1.50 (+1.52) -0.42 (-1.26)	+0.20 (+0.21) -0.20 (-0.21)		0.33 $^{+1.21}_{-0.33}$ ($^{+1.22}_{-1.00}$)	
VBF-like high m_{jj} low p_T^{Hjj}	1.60 $^{+0.40}_{-0.47}$	1.13 $^{+0.70}_{-0.65}$ ($^{+0.77}_{-0.72}$)	+0.69 (+0.76) -0.65 (-0.71)	+0.11 (+0.13) -0.05 (-0.07)		0.71 $^{+0.44}_{-0.41}$ ($^{+0.48}_{-0.45}$)	
VBF-like high m_{jj} high p_T^{Hjj}	0.74 $^{+0.16}_{-0.16}$	0.49 $^{+1.11}_{-0.49}$ ($^{+0.97}_{-0.74}$)	+1.09 (+0.95) -0.50 (-0.74)	+0.25 (+0.18) -0.25 (-0.18)		0.67 $^{+1.52}_{-0.67}$ ($^{+1.32}_{-1.00}$)	
qqH VH-like	1.29 $^{+0.05}_{-0.05}$	1.14 $^{+1.18}_{-1.10}$ ($^{+1.21}_{-1.15}$)	+1.17 (+1.21) -1.10 (-1.14)	+0.11 (+0.15) -0.08 (-0.15)		0.89 $^{+0.92}_{-0.86}$ ($^{+0.94}_{-0.90}$)	
qqH BSM	0.37 $^{+0.01}_{-0.01}$	0.54 $^{+0.23}_{-0.22}$ ($^{+0.24}_{-0.22}$)	+0.23 (+0.24) -0.22 (-0.22)	+0.03 (+0.03) -0.02 (-0.03)		1.46 $^{+0.63}_{-0.59}$ ($^{+0.66}_{-0.61}$)	
WH lep $p_T^V < 75$	0.47 $^{+0.02}_{-0.02}$	0.62 $^{+0.67}_{-0.53}$ ($^{+0.57}_{-0.47}$)	+0.67 (+0.57) -0.53 (-0.47)	+0.05 (+0.03) -0.02 (-0.03)		1.32 $^{+1.43}_{-1.12}$ ($^{+1.22}_{-1.00}$)	
WH lep $p_T^V > 75$	0.42 $^{+0.01}_{-0.01}$	0.06 $^{+0.23}_{-0.06}$ ($^{+0.27}_{-0.23}$)	+0.23 (+0.27) -0.06 (-0.23)	+0.01 (+0.02) -0.01 (-0.02)		0.15 $^{+0.55}_{-0.15}$ ($^{+0.66}_{-0.55}$)	
ZH lep	0.53 $^{+0.02}_{-0.02}$	0.57 $^{+0.36}_{-0.29}$ ($^{+0.38}_{-0.33}$)	+0.36 (+0.38) -0.29 (-0.33)	+0.03 (+0.04) -0.01 (-0.02)		1.07 $^{+0.68}_{-0.55}$ ($^{+0.72}_{-0.62}$)	
ttH $p_T^H < 60$	0.26 $^{+0.02}_{-0.03}$	0.24 $^{+0.23}_{-0.20}$ ($^{+0.23}_{-0.20}$)	+0.23 (+0.23) -0.20 (-0.19)	+0.03 (+0.03) -0.02 (-0.03)		0.95 $^{+0.90}_{-0.76}$ ($^{+0.90}_{-0.76}$)	
ttH 60 < p_T^H < 120	0.40 $^{+0.04}_{-0.04}$	0.43 $^{+0.25}_{-0.22}$ ($^{+0.26}_{-0.23}$)	+0.24 (+0.26) -0.22 (-0.23)	+0.03 (+0.04) -0.02 (-0.04)		1.07 $^{+0.62}_{-0.55}$ ($^{+0.65}_{-0.57}$)	
ttH 120 < p_T^H < 200	0.29 $^{+0.03}_{-0.04}$	0.43 $^{+0.18}_{-0.16}$ ($^{+0.18}_{-0.16}$)	+0.18 (+0.18) -0.16 (-0.16)	+0.03 (+0.02) -0.02 (-0.01)		1.47 $^{+0.62}_{-0.55}$ ($^{+0.60}_{-0.53}$)	
ttH $p_T^H > 200$	0.18 $^{+0.02}_{-0.02}$	0.15 $^{+0.15}_{-0.14}$ ($^{+0.12}_{-0.13}$)	+0.15 (+0.12) -0.14 (-0.13)	+0.03 (+0.02) -0.02 (-0.01)		0.80 $^{+0.83}_{-0.78}$ ($^{+0.65}_{-0.72}$)	
tH	0.20 $^{+0.01}_{-0.03}$	1.08 $^{+1.03}_{-0.90}$ ($^{+0.88}_{-0.20}$)	+1.02 (+0.88) -0.88 (-0.20)	+0.19 (+0.11) -0.14 (-0.11)		5.27 $^{+5.07}_{-4.39}$ ($^{+4.33}_{-1.00}$)	