

Process	$t\bar{t}H(H\rightarrow c\bar{c})$ SR	$t\bar{t}H(H\rightarrow b\bar{b})$ SR	$t\bar{t}Z(Z\rightarrow c\bar{c})$ SR	$t\bar{t}Z(Z\rightarrow b\bar{b})$ SR	$t\bar{t}+\geq 2b$ CR	$t\bar{t}+b$ CR	$t\bar{t}+\geq 2c$ CR	$t\bar{t}+c$ CR	$t\bar{t}+\text{light}$ CR
$t\bar{t}H(H\rightarrow c\bar{c})$	-9 ± 13 (5.5 ± 8.1)	-0.4 ± 2.5 (0.2 ± 1.4)	-1.6 ± 5.0 (1.0 ± 3.0)	-0.1 ± 1.4 (0.08 ± 0.79)	-0.7 ± 1.9 (0.4 ± 1.1)	-0.3 ± 1.4 (0.17 ± 0.79)	-3.4 ± 4.7 (2.0 ± 2.8)	-0.5 ± 1.9 (0.3 ± 1.1)	-17 ± 10 (10.2 ± 6.2)
$t\bar{t}H(H\rightarrow b\bar{b})$	12 ± 10 (13 ± 11)	128 ± 38 (137 ± 41)	5.4 ± 6.5 (5.9 ± 7.1)	31 ± 16 (34 ± 17)	140 ± 23 (151 ± 24)	62 ± 15 (68 ± 16)	14.9 ± 6.5 (15.8 ± 6.9)	2.9 ± 2.8 (3.1 ± 3.0)	185 ± 23 (201 ± 25)
$t\bar{t}Z(Z\rightarrow c\bar{c})$	8.0 ± 9.0	0.8 ± 2.9	36 ± 21	1.3 ± 3.6	1.9 ± 2.6	1.0 ± 2.0	10.4 ± 6.7	2.0 ± 2.9	51 ± 14
$t\bar{t}Z(Z\rightarrow b\bar{b})$	3.1 ± 6.5	22 ± 18	4.7 ± 8.3	87 ± 40	62 ± 19	28 ± 13	6.2 ± 5.4	1.5 ± 2.7	75 ± 19
$t\bar{t}+\geq 2b$	73 ± 32	336 ± 73	55 ± 28	320 ± 70	1548 ± 97	452 ± 50	178 ± 30	28 ± 11	1677 ± 89
$t\bar{t}+b$	86 ± 47	96 ± 49	70 ± 43	88 ± 50	405 ± 60	742 ± 86	159 ± 37	45 ± 20	2040 ± 130
$t\bar{t}+\geq 2c$	296 ± 81	22 ± 21	260 ± 75	20 ± 19	74 ± 22	30 ± 15	653 ± 72	85 ± 25	2410 ± 130
$t\bar{t}+c$	163 ± 59	21 ± 20	113 ± 48	16 ± 17	49 ± 18	44 ± 19	180 ± 39	113 ± 30	2520 ± 140
$t\bar{t}+\text{light}$	213 ± 42	27 ± 15	165 ± 36	21 ± 13	44 ± 11	43 ± 12	122 ± 20	50 ± 13	4310 ± 120
Other	39 ± 40	13 ± 20	106 ± 67	18 ± 23	32 ± 19	24 ± 15	52 ± 29	17 ± 16	565 ± 88
Total	883 ± 50	665 ± 42	814 ± 47	602 ± 40	2357 ± 74	1426 ± 63	1372 ± 64	343 ± 26	13800 ± 310
Data	898	668	831	622	2345	1435	1382	357	13733