

Table 1: SM yields (calculated Jul 05 2022, with version anatest18)

	2lss m 3b	2lss p 3b	2lss m 2b	2lss p 2b	3l m 1b	3l p 1b	3l m 2b	3l p 2b	3l onZ 1b	3l onZ 2b	4l 2b
Diboson sm	0.02	0.09	10.32	12.43	26.36	24.51	1.42	2.22	265.93	19.09	4.17
Triboson sm	0.04	0.07	2.06	3.0	0.92	1.28	0.1	0.17	15.54	2.52	0.43
charge flips sm	1.62	1.57	17.5	17.39	0.0	0.0	0.0	0.0	0.0	0.0	0.0
fakes sm	6.94	9.28	116.32	124.88	58.19	57.87	12.81	11.37	60.2	11.69	0.0
convs sm	0.95	0.83	11.54	9.69	3.36	2.92	3.2	3.04	0.79	0.67	0.01
Sum bkg	9.58	11.84	157.73	167.39	88.83	86.59	17.52	16.8	342.46	33.97	4.61
ttlnu sm	10.63	20.1	125.08	236.48	22.07	40.68	23.31	43.31	8.75	9.77	0.02
ttl sm	8.27	8.6	79.44	80.89	39.06	39.31	36.84	37.12	284.7	260.7	35.48
ttH sm	9.25	9.24	83.09	83.29	23.38	23.08	22.61	22.43	9.56	9.58	3.45
tllq sm	0.45	0.82	6.41	11.54	5.41	9.44	2.35	4.16	110.34	47.22	0.01
tHq sm	0.12	0.22	1.41	2.6	0.47	0.83	0.35	0.6	0.34	0.23	0.03
tttt sm	7.29	7.24	5.79	5.7	0.66	0.64	3.67	3.71	0.16	0.98	0.41
Sum sig	36.01	46.23	301.22	420.51	91.03	113.98	89.12	111.33	413.85	328.48	39.41
Sum expected	45.59	58.07	458.95	587.9	179.86	200.57	106.64	128.12	756.31	362.46	44.01
Observation	45.58	58.07	458.94	587.9	179.86	200.57	106.65	128.12	756.31	362.45	44.01