

Table 1: TOP-22-006 unblind yields, calculated Feb 16, 2023 (version at25v01)

	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
tWZ sm	0.46	0.47	6.66	6.7	4.79	4.77	1.69	1.69	63.34	20.29	2.72
Diboson sm	0.1	0.25	12.08	15.94	30.27	29.65	2.03	3.19	338.62	34.2	4.81
Triboson sm	0.05	0.07	2.16	3.15	0.95	1.33	0.1	0.17	16.03	2.6	0.44
charge flips sm	1.62	1.57	17.5	17.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
fakes sm	6.69	8.91	112.59	120.54	56.95	56.48	11.84	10.45	55.37	10.06	0.0
convs sm	0.96	0.86	11.42	9.6	3.39	2.93	3.25	3.07	0.78	0.68	0.01
Sum bkg	9.88	12.13	162.41	173.32	96.34	95.16	18.9	18.58	474.14	67.83	7.98
ttlnu sm	12.56	23.72	144.17	272.81	25.69	47.38	27.25	50.68	10.17	11.43	0.03
ttl sm	12.28	12.34	119.05	119.54	51.55	51.07	48.46	49.73	320.71	295.86	40.22
ttH sm	9.5	9.47	83.31	83.46	23.52	23.23	22.92	22.72	9.62	9.7	3.5
tllq sm	0.47	0.87	6.51	11.76	5.45	9.55	2.4	4.23	111.51	48.11	0.01
tHq sm	0.12	0.23	1.42	2.61	0.47	0.83	0.35	0.61	0.35	0.23	0.03
tttt sm	10.71	10.62	8.44	8.32	0.96	0.95	5.44	5.49	0.23	1.45	0.61
Sum sig	45.64	57.26	362.9	498.5	107.65	133.01	106.82	133.45	452.59	366.78	44.4
Sum expected	55.52	69.39	525.31	671.82	203.99	228.17	125.73	152.03	926.73	434.61	52.38
Observation	71.0	68.0	608.0	781.0	233.0	270.0	148.0	158.0	1074.0	466.0	50.0
Pdiff	-27.89	2.0	-15.74	-16.25	-14.22	-18.33	-17.72	-3.93	-15.89	-7.22	4.55