

LQ mass	Signal	W+jets	t $\bar{t}$	Multijet	VV, Z, single t, $\gamma$ +jets	Total background	Data
preselection	–	47933 $\pm$ 164	66866 $\pm$ 106	2805 $\pm$ 15	11282 $\pm$ 72	128885 $\pm$ 208 $\pm$ 8840	125076
200	130764 $\pm$ 1556	40086 $\pm$ 150	52755 $\pm$ 94	2061 $\pm$ 11	9596 $\pm$ 57	104498 $\pm$ 186 $\pm$ 7272	101618
250	44233 $\pm$ 524	1760 $\pm$ 25	3751 $\pm$ 25	297 $\pm$ 2.3	1301 $\pm$ 38	7109 $\pm$ 52 $\pm$ 429	7151
300	19831 $\pm$ 217	796 $\pm$ 15	1439 $\pm$ 16	118 $\pm$ 1.4	665 $\pm$ 37	3018 $\pm$ 43 $\pm$ 175	3164
350	9846 $\pm$ 101	408 $\pm$ 13	614 $\pm$ 10	62 $\pm$ 1.0	331 $\pm$ 11	1414 $\pm$ 20 $\pm$ 88	1539
400	5141 $\pm$ 51	227 $\pm$ 8.9	304 $\pm$ 7.2	37 $\pm$ 0.8	195 $\pm$ 10	763 $\pm$ 15 $\pm$ 74	847
450	2895 $\pm$ 27	151 $\pm$ 6.0	157 $\pm$ 5.2	28 $\pm$ 0.8	121 $\pm$ 9.6	457 $\pm$ 12 $\pm$ 31	496
500	1654 $\pm$ 15	90 $\pm$ 4.1	88 $\pm$ 3.9	21 $\pm$ 0.8	75.1 $^{+3.9}_{-3.3}$	274 $^{+6.9}_{-6.6}$ $\pm$ 21	298
550	989 $\pm$ 8.8	59 $\pm$ 5.2	49 $\pm$ 2.9	9.1 $\pm$ 0.4	52.7 $^{+3.5}_{-2.9}$	170 $^{+6.9}_{-6.6}$ $\pm$ 13	195
600	616 $\pm$ 5.3	45 $\pm$ 5.1	32 $\pm$ 2.3	6.1 $\pm$ 0.4	36.1 $^{+2.8}_{-2.2}$	119 $^{+6.3}_{-6.0}$ $\pm$ 12	132
650	405 $\pm$ 3.3	34 $\pm$ 5.0	20 $\pm$ 1.8	5.0 $\pm$ 0.4	26.1 $^{+2.5}_{-1.9}$	84.5 $^{+5.9}_{-5.7}$ $\pm$ 8.1	94
700	267 $\pm$ 2.1	22 $\pm$ 1.2	12 $\pm$ 1.5	4.2 $\pm$ 0.5	17.5 $^{+2.1}_{-1.5}$	55.6 $^{+2.9}_{-2.5}$ $\pm$ 6.1	71
750	180 $\pm$ 1.4	15 $\pm$ 0.9	10 $\pm$ 1.3	3.7 $\pm$ 0.5	13.1 $^{+2.1}_{-1.3}$	41.9 $^{+2.7}_{-2.1}$ $\pm$ 4.9	49
800	125 $\pm$ 0.9	13 $\pm$ 1.0	6.3 $\pm$ 1.0	3.4 $\pm$ 0.6	9.8 $^{+2.0}_{-1.1}$	32.4 $^{+2.5}_{-1.9}$ $\pm$ 4.6	38
850	86 $\pm$ 0.6	13 $\pm$ 1.1	5.2 $\pm$ 0.9	3.2 $\pm$ 0.7	7.0 $^{+2.0}_{-1.2}$	28.1 $^{+2.6}_{-2.0}$ $\pm$ 4.8	28
900	61 $\pm$ 0.4	11 $\pm$ 1.2	3.8 $\pm$ 0.8	3.0 $\pm$ 0.7	6.3 $^{+2.0}_{-1.1}$	24.0 $^{+2.6}_{-2.0}$ $\pm$ 4.1	21
950	44 $\pm$ 0.3	8.4 $\pm$ 1.0	3.0 $\pm$ 0.7	0.7 $\pm$ 0.1	5.7 $^{+2.0}_{-1.1}$	17.7 $^{+2.3}_{-1.6}$ $\pm$ 3.3	20
1000	31 $\pm$ 0.2	7.9 $\pm$ 0.9	2.2 $\pm$ 0.6	0.6 $\pm$ 0.1	4.8 $^{+2.0}_{-1.1}$	15.5 $^{+2.3}_{-1.5}$ $\pm$ 2.8	15
1050	23 $\pm$ 0.2	7.1 $\pm$ 0.9	1.4 $^{+0.7}_{-0.5}$	0.5 $\pm$ 0.1	4.4 $^{+2.0}_{-1.1}$	13.4 $^{+2.3}_{-1.4}$ $\pm$ 2.5	14
1100	17 $\pm$ 0.1	5.9 $\pm$ 0.8	1.2 $^{+0.6}_{-0.4}$	0.5 $\pm$ 0.1	4.0 $^{+2.0}_{-1.0}$	11.6 $^{+2.3}_{-1.4}$ $\pm$ 2.1	12
1150	12 $\pm$ 0.1	5.4 $\pm$ 0.9	0.9 $^{+0.6}_{-0.4}$	0.4 $\pm$ 0.1	3.3 $^{+2.0}_{-1.0}$	10.0 $^{+2.3}_{-1.4}$ $\pm$ 1.7	12
1200	9.1 $\pm$ 0.1	5.2 $\pm$ 1.1	0.7 $^{+0.6}_{-0.4}$	0.4 $\pm$ 0.1	3.2 $^{+2.0}_{-1.0}$	9.5 $^{+2.3}_{-1.5}$ $\pm$ 1.6	10
1250	7.1 $\pm$ 0.0	5.0 $\pm$ 1.1	0.7 $^{+0.6}_{-0.4}$	0.4 $\pm$ 0.1	3.0 $^{+2.0}_{-1.0}$	9.1 $^{+2.3}_{-1.5}$ $\pm$ 1.5	9
1300	5.4 $\pm$ 0.0	5.0 $\pm$ 1.1	0.7 $^{+0.6}_{-0.4}$	0.4 $\pm$ 0.1	3.0 $^{+2.0}_{-1.0}$	9.1 $^{+2.3}_{-1.5}$ $\pm$ 1.5	9
1350	4.1 $\pm$ 0.0	5.0 $\pm$ 1.1	0.7 $^{+0.6}_{-0.4}$	0.4 $\pm$ 0.1	3.0 $^{+2.0}_{-1.0}$	9.1 $^{+2.3}_{-1.5}$ $\pm$ 1.5	9
1400	3.1 $\pm$ 0.0	5.0 $\pm$ 1.1	0.7 $^{+0.6}_{-0.4}$	0.4 $\pm$ 0.1	3.0 $^{+2.0}_{-1.0}$	9.1 $^{+2.3}_{-1.5}$ $\pm$ 1.5	9
1450	2.4 $\pm$ 0.0	5.0 $\pm$ 1.1	0.7 $^{+0.6}_{-0.4}$	0.4 $\pm$ 0.1	3.0 $^{+2.0}_{-1.0}$	9.1 $^{+2.3}_{-1.5}$ $\pm$ 1.5	9
1500	1.9 $\pm$ 0.0	5.0 $\pm$ 1.1	0.7 $^{+0.6}_{-0.4}$	0.4 $\pm$ 0.1	3.0 $^{+2.0}_{-1.0}$	9.1 $^{+2.3}_{-1.5}$ $\pm$ 1.5	9
1550	1.4 $\pm$ 0.0	5.0 $\pm$ 1.1	0.7 $^{+0.6}_{-0.4}$	0.4 $\pm$ 0.1	3.0 $^{+2.0}_{-1.0}$	9.1 $^{+2.3}_{-1.5}$ $\pm$ 1.5	9
1600	1.1 $\pm$ 0.0	5.0 $\pm$ 1.1	0.7 $^{+0.6}_{-0.4}$	0.4 $\pm$ 0.1	3.0 $^{+2.0}_{-1.0}$	9.1 $^{+2.3}_{-1.5}$ $\pm$ 1.5	9
1650	0.8 $\pm$ 0.0	5.0 $\pm$ 1.1	0.7 $^{+0.6}_{-0.4}$	0.4 $\pm$ 0.1	3.0 $^{+2.0}_{-1.0}$	9.1 $^{+2.3}_{-1.5}$ $\pm$ 1.5	9
1700	0.6 $\pm$ 0.0	5.0 $\pm$ 1.1	0.7 $^{+0.6}_{-0.4}$	0.4 $\pm$ 0.1	3.0 $^{+2.0}_{-1.0}$	9.1 $^{+2.3}_{-1.5}$ $\pm$ 1.5	9
1750	0.5 $\pm$ 0.0	5.0 $\pm$ 1.1	0.7 $^{+0.6}_{-0.4}$	0.4 $\pm$ 0.1	3.0 $^{+2.0}_{-1.0}$	9.1 $^{+2.3}_{-1.5}$ $\pm$ 1.5	9
1800	0.4 $\pm$ 0.0	5.0 $\pm$ 1.1	0.7 $^{+0.6}_{-0.4}$	0.4 $\pm$ 0.1	3.0 $^{+2.0}_{-1.0}$	9.1 $^{+2.3}_{-1.5}$ $\pm$ 1.5	9
1850	0.3 $\pm$ 0.0	5.0 $\pm$ 1.1	0.7 $^{+0.6}_{-0.4}$	0.4 $\pm$ 0.1	3.0 $^{+2.0}_{-1.0}$	9.1 $^{+2.3}_{-1.5}$ $\pm$ 1.5	9
1900	0.2 $\pm$ 0.0	5.0 $\pm$ 1.1	0.7 $^{+0.6}_{-0.4}$	0.4 $\pm$ 0.1	3.0 $^{+2.0}_{-1.0}$	9.1 $^{+2.3}_{-1.5}$ $\pm$ 1.5	9
1950	0.2 $\pm$ 0.0	5.0 $\pm$ 1.1	0.7 $^{+0.6}_{-0.4}$	0.4 $\pm$ 0.1	3.0 $^{+2.0}_{-1.0}$	9.1 $^{+2.3}_{-1.5}$ $\pm$ 1.5	9
2000	0.1 $\pm$ 0.0	5.0 $\pm$ 1.1	0.7 $^{+0.6}_{-0.4}$	0.4 $\pm$ 0.1	3.0 $^{+2.0}_{-1.0}$	9.1 $^{+2.3}_{-1.5}$ $\pm$ 1.5	9