

m_{LQ}	Signal (stat + sys)	$Z/\gamma^* + \text{jets}$	tt	ttV	VV	single top	All BG (stat + sys)	Data
300	$72245 \pm 661 \pm 4100$	3.64 ± 0.32	1.64 ± 0.35	0.18 ± 0.02	0.63 ± 0.11	0.70 ± 0.37	$6.80 \pm 0.61 \pm 0.50$	5
400	$20312 \pm 1601 \pm 1061$	0.85 ± 0.11	$0.23^{+0.16}_{-0.1}$	0.07 ± 0.01	$0.01^{+0.02}_{-0.00}$	$0.38^{+0.37}_{-0.27}$	$1.54^{+0.42}_{-0.31} \pm 0.11$	1
500	$12931 \pm 67.6 \pm 678$	$2.31^{+0.21}_{-0.20}$	1.12 ± 0.37	0.18 ± 0.02	0.25 ± 0.04	1.12 ± 0.52	$4.99 \pm 0.67 \pm 0.39$	6
600	$5215 \pm 24.9 \pm 283$	$0.73^{+0.09}_{-0.08}$	$0.28^{+0.18}_{-0.13}$	0.10 ± 0.01	0.13 ± 0.03	$0.00^{+0.26}_{-0.00}$	$1.24^{+0.33}_{-0.16} \pm 0.11$	4
700	$2669 \pm 10.9 \pm 152$	1.14 ± 0.08	$0.28^{+0.19}_{-0.14}$	0.04 ± 0.01	$0.04^{+0.02}_{-0.01}$	$0.00^{+0.23}_{-0.00}$	$1.50^{+0.31}_{-0.16} \pm 0.15$	1
800	$1278 \pm 4.89 \pm 77.7$	$0.45^{+0.04}_{-0.03}$	$0.28^{+0.19}_{-0.14}$	0.05 ± 0.01	0.16 ± 0.04	$0.00^{+0.26}_{-0.00}$	$0.93^{+0.33}_{-0.15} \pm 0.11$	1
900	$634 \pm 2.29 \pm 41.7$	$0.44^{+0.05}_{-0.04}$	$0.00^{+0.16}_{-0.00}$	0.05 ± 0.01	0.14 ± 0.04	$0.00^{+0.26}_{-0.00}$	$0.63^{+0.31}_{-0.06} \pm 0.09$	0
1000	$322 \pm 1.14 \pm 23.12$	$0.33^{+0.04}_{-0.03}$	$0.07^{+0.15}_{-0.07}$	0.02 ± 0.01	0.10 ± 0.03	$0.00^{+0.26}_{-0.00}$	$0.52^{+0.31}_{-0.08} \pm 0.09$	2
1100	$175 \pm 0.57 \pm 14.0$	0.73 ± 0.05	$0.08^{+0.16}_{-0.08}$	0.05 ± 0.01	0.12 ± 0.04	$0.00^{+0.26}_{-0.00}$	$0.98^{+0.31}_{-0.10} \pm 0.18$	1
1200	$82.8 \pm 0.30 \pm 7.39$	$0.09^{+0.05}_{-0.02}$	$0.00^{+0.16}_{-0.00}$	0.03 ± 0.01	0.07 ± 0.05	$0.19^{+0.32}_{-0.19}$	$0.38^{+0.37}_{-0.20} \pm 0.08$	1
1300	$43.6 \pm 0.16 \pm 4.43$	$0.08^{+0.03}_{-0.01}$	$0.00^{+0.16}_{-0.00}$	0.00 ± 0.00	$0.03^{+0.04}_{-0.03}$	$0.00^{+0.26}_{-0.00}$	$0.1^{+0.31}_{-0.03} \pm 0.02$	1
1400	$27.4 \pm 0.08 \pm 3.17$	0.43 ± 0.04	$0.00^{+0.16}_{-0.00}$	0.03 ± 0.01	0.18 ± 0.09	$0.19^{+0.32}_{-0.19}$	$0.83^{+0.37}_{-0.21} \pm 0.2$	1
1500	$13.3 \pm 0.04 \pm 1.74$	$0.08^{+0.04}_{-0.01}$	$0.00^{+0.16}_{-0.00}$	0.01 ± 0.01	0.03 ± 0.02	$0.00^{+0.26}_{-0.00}$	$0.13^{+0.31}_{-0.03} \pm 0.03$	0
1600	$7.63 \pm 0.02 \pm 1.15$	0.20 ± 0.04	$0.00^{+0.16}_{-0.00}$	0.01 ± 0.00	$0.03^{+0.03}_{-0.02}$	$0.00^{+0.26}_{-0.00}$	$0.23^{+0.31}_{-0.04} \pm 0.07$	1
1700	$4.06 \pm 0.01 \pm 0.71$	0.09 ± 0.02	$0.00^{+0.16}_{-0.00}$	0.01 ± 0.00	$0.00^{+0.02}_{-0.00}$	$0.00^{+0.26}_{-0.00}$	$0.1^{+0.31}_{-0.02} \pm 0.03$	0
1800	$2.24 \pm 0.01 \pm 0.44$	$0.03^{+0.04}_{-0.01}$	$0.00^{+0.16}_{-0.00}$	0.00 ± 0.00	$0.00^{+0.02}_{-0.00}$	$0.00^{+0.26}_{-0.00}$	$0.04^{+0.31}_{-0.01} \pm 0.01$	0
1900	$1.38 \pm 0.00 \pm 0.31$	$0.18^{+0.04}_{-0.02}$	$0.15^{+0.17}_{-0.12}$	0.04 ± 0.01	0.15 ± 0.11	$0.00^{+0.26}_{-0.00}$	$0.52^{+0.33}_{-0.16} \pm 0.17$	1
2000	$0.78 \pm 0.00 \pm 0.20$	0.49 ± 0.09	$0.00^{+0.16}_{-0.00}$	0.01 ± 0.01	$0.01^{+0.02}_{-0.01}$	$0.00^{+0.26}_{-0.00}$	$0.51^{+0.32}_{-0.09} \pm 0.18$	1
2100	$0.43 \pm 0.00 \pm 0.12$	$0.19^{+0.04}_{-0.02}$	$0.00^{+0.16}_{-0.00}$	0.00 ± 0.00	$0.03^{+0.03}_{-0.02}$	$0.00^{+0.26}_{-0.00}$	$0.21^{+0.31}_{-0.03} \pm 0.08$	1
2200	$0.24 \pm 0.00 \pm 0.07$	$0.08^{+0.05}_{-0.02}$	$0.00^{+0.16}_{-0.00}$	0.00 ± 0.00	0.02 ± 0.02	$0.00^{+0.26}_{-0.00}$	$0.1^{+0.31}_{-0.03} \pm 0.04$	1
2300	$0.13 \pm 0.00 \pm 0.04$	$0.08^{+0.04}_{-0.02}$	$0.10^{+0.17}_{-0.10}$	0.00 ± 0.00	$0.00^{+0.02}_{-0.00}$	$0.00^{+0.26}_{-0.00}$	$0.19^{+0.32}_{-0.11} \pm 0.08$	1
2400	$0.07 \pm 0.00 \pm 0.03$	$0.11^{+0.04}_{-0.02}$	$0.00^{+0.16}_{-0.00}$	0.00 ± 0.00	0.02 ± 0.02	$0.00^{+0.26}_{-0.00}$	$0.13^{+0.31}_{-0.02} \pm 0.06$	1
2500	$0.04 \pm 0.00 \pm 0.02$	$0.02^{+0.04}_{-0.00}$	$0.00^{+0.16}_{-0.00}$	0.00 ± 0.00	$0.00^{+0.02}_{-0.00}$	$0.10^{+0.25}_{-0.1}$	$0.12^{+0.3}_{-0.1} \pm 0.06$	1
2600	$0.02 \pm 0.00 \pm 0.01$	$0.00^{+0.05}_{-0.00}$	$0.00^{+0.16}_{-0.00}$	0.00 ± 0.00	0.02 ± 0.02	$0.00^{+0.26}_{-0.00}$	$0.02^{+0.31}_{-0.02} \pm 0.01$	0
2700	$0.01 \pm 0.00 \pm 0.01$	$0.04^{+0.04}_{-0.01}$	$0.00^{+0.16}_{-0.00}$	0.00 ± 0.00	0.02 ± 0.02	$0.00^{+0.26}_{-0.00}$	$0.07^{+0.31}_{-0.02} \pm 0.03$	1
2800	$0.01 \pm 0.00 \pm 0.00$	$0.01^{+0.04}_{-0.00}$	$0.00^{+0.16}_{-0.00}$	0.00 ± 0.00	$0.01^{+0.02}_{-0.01}$	$0.00^{+0.26}_{-0.00}$	$0.02^{+0.31}_{-0.01} \pm 0.01$	1
2900	$< 0.01 \pm 0.00 \pm 0.00$	$0.00^{+0.05}_{-0.00}$	$0.00^{+0.16}_{-0.00}$	0.00 ± 0.00	0.02 ± 0.02	$0.00^{+0.26}_{-0.00}$	$0.02^{+0.31}_{-0.02} \pm 0.01$	1
3000	$< 0.01 \pm 0.00 \pm 0.00$	$0.00^{+0.05}_{-0.00}$	$0.00^{+0.16}_{-0.00}$	0.00 ± 0.00	0.11 ± 0.11	$0.00^{+0.26}_{-0.00}$	$0.12^{+0.33}_{-0.11} \pm 0.07$	1