

Table 1: Table: Mean and standard deviation of reconstruted wboson

	600	625	650	675	700	800	900	1000	1100	1200
2016	90.49 \pm 30.87	90.79 \pm 31.16	90.59 \pm 31.02	90.86 \pm 31.15	90.72 \pm 31.12	91.27 \pm 31.47	92.05 \pm 32.28	92.95 \pm 33.32	93.92 \pm 34.73	95.17 \pm 36.12
	82.16 \pm 13.40	82.28 \pm 13.42	82.27 \pm 13.46	82.57 \pm 13.57	82.55 \pm 13.67	83.34 \pm 14.22	84.25 \pm 15.08	85.50 \pm 16.72	86.77 \pm 18.78	88.08 \pm 20.78
2017	89.99 \pm 30.44	89.84 \pm 30.42	90.05 \pm 30.51	90.03 \pm 30.57	90.20 \pm 30.67	90.53 \pm 31.01	91.34 \pm 31.88	92.28 \pm 33.07	93.36 \pm 34.32	94.07 \pm 35.46
	82.59 \pm 14.04	82.69 \pm 14.03	82.71 \pm 14.12	82.96 \pm 14.08	83.05 \pm 14.26	83.67 \pm 14.77	84.51 \pm 15.71	85.70 \pm 17.12	87.08 \pm 19.31	88.42 \pm 21.36
2018	90.26 \pm 30.52	90.14 \pm 30.58	90.21 \pm 30.67	90.31 \pm 30.82	90.49 \pm 30.81	90.94 \pm 31.34	91.43 \pm 32.01	92.57 \pm 33.21	93.50 \pm 34.37	94.67 \pm 35.85
	82.46 \pm 13.91	82.55 \pm 13.86	82.46 \pm 13.84	82.66 \pm 13.83	82.86 \pm 14.06	83.49 \pm 14.61	84.44 \pm 15.64	85.64 \pm 17.16	86.96 \pm 19.10	88.59 \pm 21.48

Table 2: Table: Mean and standard deviation of reconstruted top

	600	625	650	675	700	800	900	1000	1100	1200
2016	188.58 \pm 41.43	188.76 \pm 41.36	188.85 \pm 41.25	189.07 \pm 41.20	189.20 \pm 41.32	190.11 \pm 40.98	191.33 \pm 40.93	192.83 \pm 41.10	194.65 \pm 41.83	196.48 \pm 42.33
	170.07 \pm 21.74	170.36 \pm 21.66	170.50 \pm 21.48	170.86 \pm 21.53	170.83 \pm 21.49	172.10 \pm 21.21	173.70 \pm 21.53	175.46 \pm 22.07	177.14 \pm 23.49	179.03 \pm 24.66
2017	188.85 \pm 41.60	188.75 \pm 41.44	188.86 \pm 41.35	189.20 \pm 41.19	189.05 \pm 41.16	190.25 \pm 41.12	191.10 \pm 41.08	192.78 \pm 41.49	194.57 \pm 42.06	196.14 \pm 42.60
	170.12 \pm 22.66	170.09 \pm 22.49	170.36 \pm 22.57	170.81 \pm 22.41	170.86 \pm 22.32	171.98 \pm 22.04	173.29 \pm 22.42	175.09 \pm 22.94	176.95 \pm 24.12	178.85 \pm 25.60
2018	188.20 \pm 41.14	188.40 \pm 41.37	188.52 \pm 41.37	188.83 \pm 41.29	188.98 \pm 41.22	189.88 \pm 41.11	191.09 \pm 41.18	192.25 \pm 41.22	194.26 \pm 41.94	196.03 \pm 42.50
	169.79 \pm 22.16	169.95 \pm 22.14	169.99 \pm 22.21	170.37 \pm 21.94	170.77 \pm 21.91	171.78 \pm 21.93	173.21 \pm 22.25	174.84 \pm 22.79	176.67 \pm 24.06	179.00 \pm 25.48

Table 3: Table: Mean and standard deviation of reconstruted tprime

	600	625	650	675	700	800	900	1000	1100	1200
2016	666.47 \pm 210.18	687.28 \pm 212.27	707.10 \pm 214.77	729.30 \pm 216.66	749.15 \pm 219.93	830.47 \pm 226.52	911.22 \pm 236.83	990.37 \pm 250.31	1068.76 \pm 268.32	1143.30 \pm 284.75
	587.31 \pm 47.34	611.51 \pm 48.71	635.66 \pm 50.95	660.33 \pm 52.42	684.10 \pm 54.67	781.85 \pm 63.16	880.09 \pm 73.44	978.02 \pm 86.36	1074.82 \pm 103.46	1171.85 \pm 121.82
2017	665.77 \pm 210.96	686.63 \pm 214.80	706.40 \pm 215.79	726.54 \pm 218.26	745.31 \pm 218.38	825.80 \pm 226.45	904.68 \pm 238.51	982.79 \pm 251.97	1059.21 \pm 268.90	1130.87 \pm 287.82
	586.33 \pm 48.91	610.41 \pm 50.27	634.78 \pm 52.53	659.66 \pm 54.04	683.51 \pm 55.83	780.70 \pm 64.61	877.97 \pm 75.05	975.24 \pm 88.72	1072.97 \pm 105.26	1169.80 \pm 124.47
2018	662.86 \pm 210.38	681.77 \pm 210.23	702.33 \pm 212.05	723.56 \pm 214.66	743.10 \pm 215.79	825.08 \pm 225.98	905.12 \pm 236.04	982.46 \pm 250.69	1059.39 \pm 269.10	1131.29 \pm 287.45
	586.16 \pm 47.90	610.53 \pm 49.71	634.20 \pm 51.92	659.05 \pm 53.05	683.47 \pm 54.96	780.16 \pm 64.43	878.49 \pm 74.81	975.49 \pm 87.91	1073.67 \pm 103.81	1171.07 \pm 125.23