Table 1: Table: Mean and standard deviation of reconstruted particles for 2016 signal samples

	600	625	650	675	700	800	900	1000	1100	1200
W boson	90.95 ± 31.48	91.25 ± 31.78	90.98 ± 31.58	91.28 ± 31.72	91.09 ± 31.67	91.62 ± 32.00	92.38 ± 32.76	93.23 ± 33.78	94.21 ± 35.17	95.38 ± 36.46
	80.83 ± 11.89	80.97 ± 11.93	80.98 ± 11.94	81.20 ± 11.92	81.16 ± 11.98	81.83 ± 12.21	82.45 ± 12.32	83.12 ± 12.80	83.61 ± 13.49	83.97 ± 14.21
top	189.21 ± 41.78	189.28 ± 41.65	189.39 ± 41.58	189.59 ± 41.51	189.68 ± 41.62	190.53 ± 41.29	191.65 ± 41.14	193.16 ± 41.32	195.00 ± 42.07	196.76 ± 42.53
	168.30 ± 20.15	168.56 ± 20.04	168.75 ± 19.86	169.03 ± 19.76	169.08 ± 19.83	170.26 ± 19.37	171.58 ± 19.17	172.87 ± 18.94	173.75 ± 19.30	174.74 ± 19.21
tprime	683.50 ± 229.94	704.80 ± 232.29	724.36 ± 234.12	746.76 ± 235.76	766.38 ± 238.91	847.73 ± 244.50	927.48 ± 252.66	1006.78 ± 264.80	1085.05 ± 280.38	1158.46 ± 294.64
	584.98 ± 45.60	609.09 ± 46.84	633.14 ± 49.22	657.74 ± 50.34	681.38 ± 52.66	778.60 ± 60.15	875.68 ± 68.80	971.53 ± 78.78	1064.72 ± 92.01	1157.42 ± 105.74

Table 2: Table: Mean and standard deviation of reconstruted particles for 2017 signal samples

	600	625	650	675	700	800	900	1000	1100	1200
W boson	90.35 ± 31.02	90.17 ± 30.97	90.39 ± 31.07	90.34 ± 31.13	90.57 ± 31.21	90.84 ± 31.56	91.56 ± 32.35	92.47 ± 33.52	93.54 ± 34.73	94.19 ± 35.83
	80.93 ± 12.32	81.06 ± 12.31	81.09 ± 12.39	81.37 ± 12.35	81.43 ± 12.42	81.92 ± 12.58	82.47 ± 12.89	83.13 ± 13.15	83.56 ± 13.82	84.02 ± 14.82
top	189.37 ± 41.94	189.26 ± 41.75	189.34 ± 41.65	189.62 ± 41.49	189.53 ± 41.48	190.63 ± 41.41	191.38 ± 41.37	193.02 ± 41.72	194.84 ± 42.33	196.30 ± 42.81
	167.89 ± 20.73	167.91 ± 20.65	168.18 ± 20.76	168.66 ± 20.50	168.73 ± 20.39	169.85 ± 20.02	170.87 ± 19.93	172.18 ± 19.67	173.17 ± 19.61	174.15 ± 20.02
tprime	682.11 ± 229.39	703.79 ± 233.93	722.73 ± 234.15	743.15 ± 236.57	762.44 ± 237.04	842.46 ± 243.75	920.56 ± 253.90	998.40 ± 265.33	1074.82 ± 280.72	1145.44 ± 297.45
	583.25 ± 46.82	607.38 ± 48.28	631.72 ± 50.46	656.54 ± 51.70	680.25 ± 53.25	776.99 ± 61.47	872.91 ± 70.21	968.03 ± 80.49	1061.88 ± 92.47	1153.94 ± 107.07

Table 3: Table: Mean and standard deviation of reconstruted particles for 2018 signal samples

	600	625	650	675	700	800	900	1000	1100	1200
W boson	90.66 ± 31.09	90.57 ± 31.13	90.54 ± 31.18	90.67 ± 31.34	90.85 ± 31.36	91.27 ± 31.79	91.77 ± 32.48	92.81 ± 33.62	93.77 ± 34.74	94.90 ± 36.21
W DOSOII	80.95 ± 12.32	81.04 ± 12.17	81.05 ± 12.29	81.25 ± 12.26	81.33 ± 12.29	81.85 ± 12.42	82.48 ± 12.76	83.08 ± 13.14	83.58 ± 13.67	84.08 ± 14.58
top	188.64 ± 41.39	188.87 ± 41.66	188.88 ± 41.64	189.25 ± 41.59	189.39 ± 41.51	190.27 ± 41.37	191.35 ± 41.43	192.50 ± 41.46	194.49 ± 42.15	196.27 ± 42.71
	167.75 ± 20.46	167.94 ± 20.44	168.06 ± 20.54	168.45 ± 20.25	168.81 ± 20.12	169.71 ± 19.88	170.90 ± 19.83	172.01 ± 19.53	173.00 ± 19.60	174.29 ± 19.60
tprime	679.70 ± 230.50	699.19 ± 230.34	719.33 ± 232.20	740.59 ± 233.95	759.52 ± 234.19	841.96 ± 243.97	920.99 ± 251.83	998.54 ± 264.78	1075.19 ± 280.97	1146.09 ± 297.12
	583.46 ± 46.00	607.79 ± 47.90	631.38 ± 50.11	656.32 ± 51.03	680.57 ± 52.79	776.52 ± 61.26	873.58 ± 69.44	968.42 ± 80.01	1062.81 ± 90.87	1154.69 ± 106.77