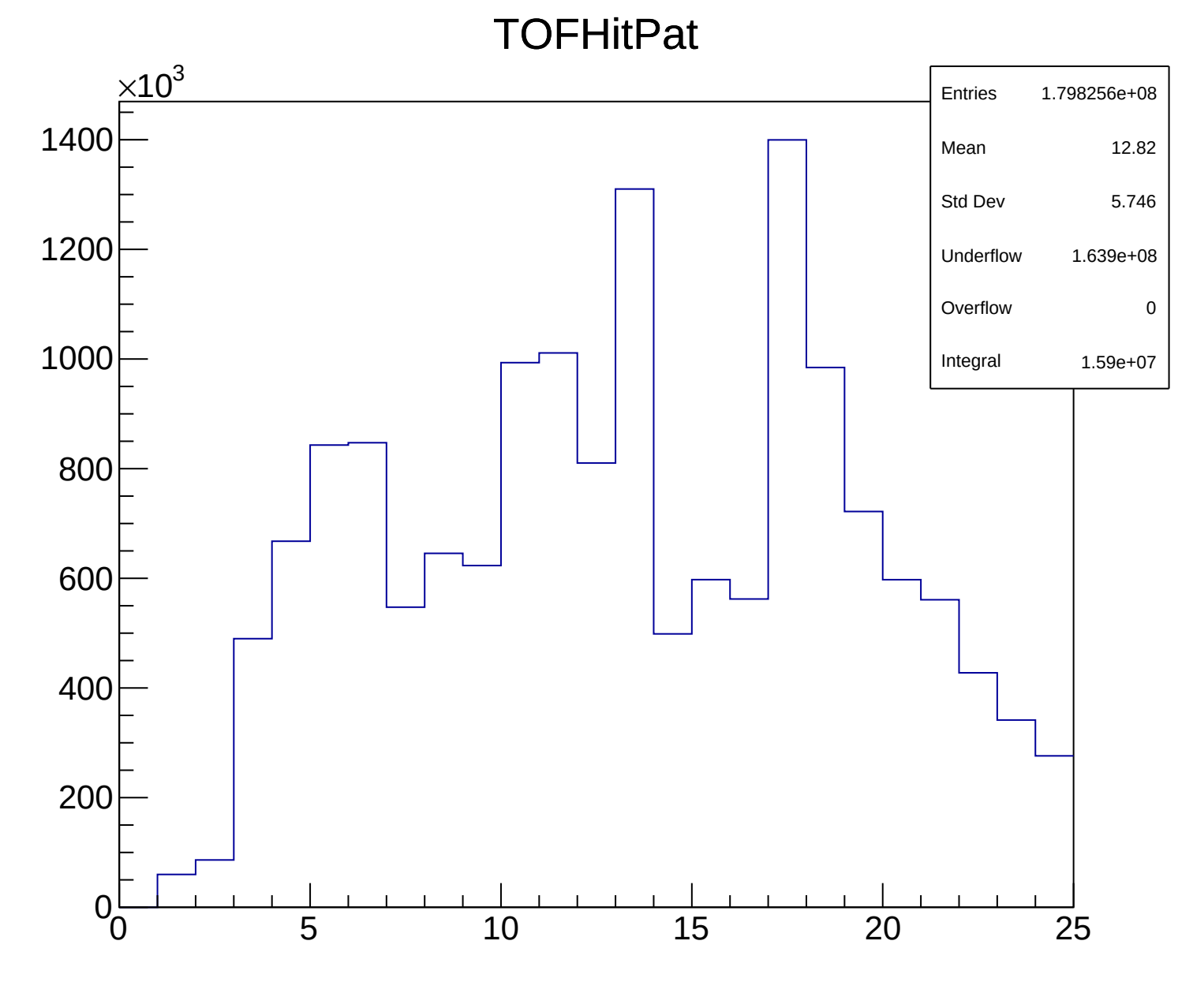
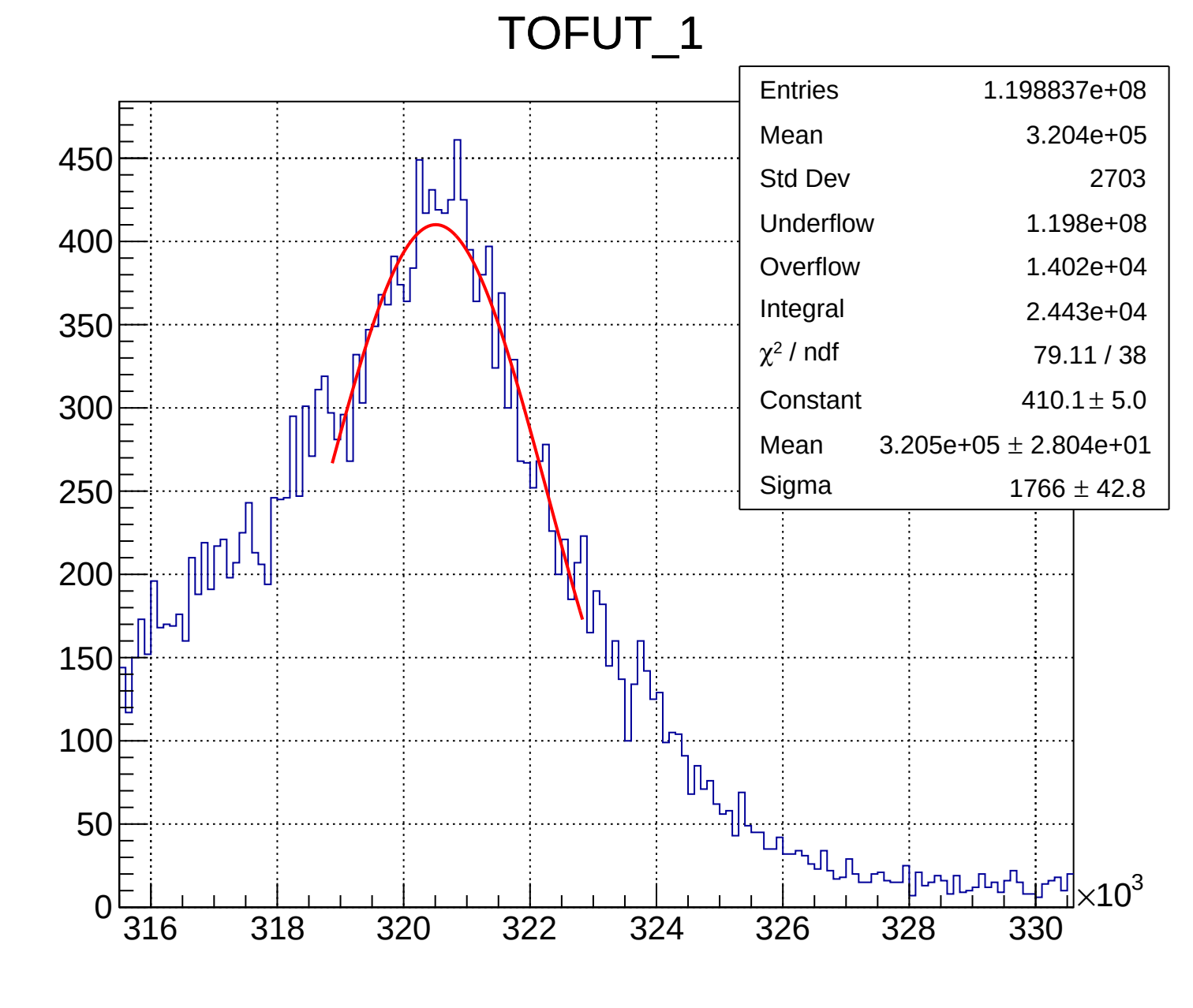
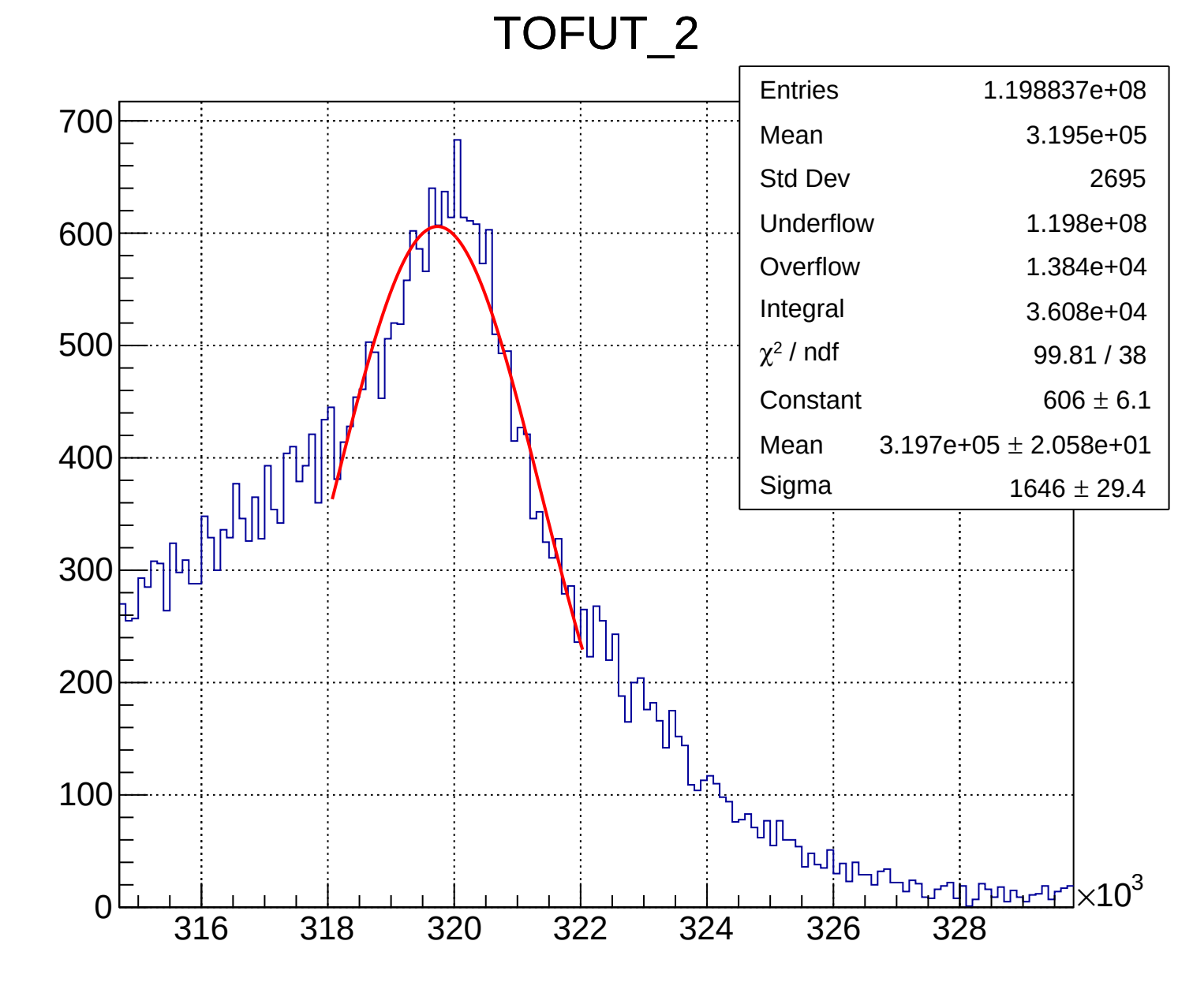
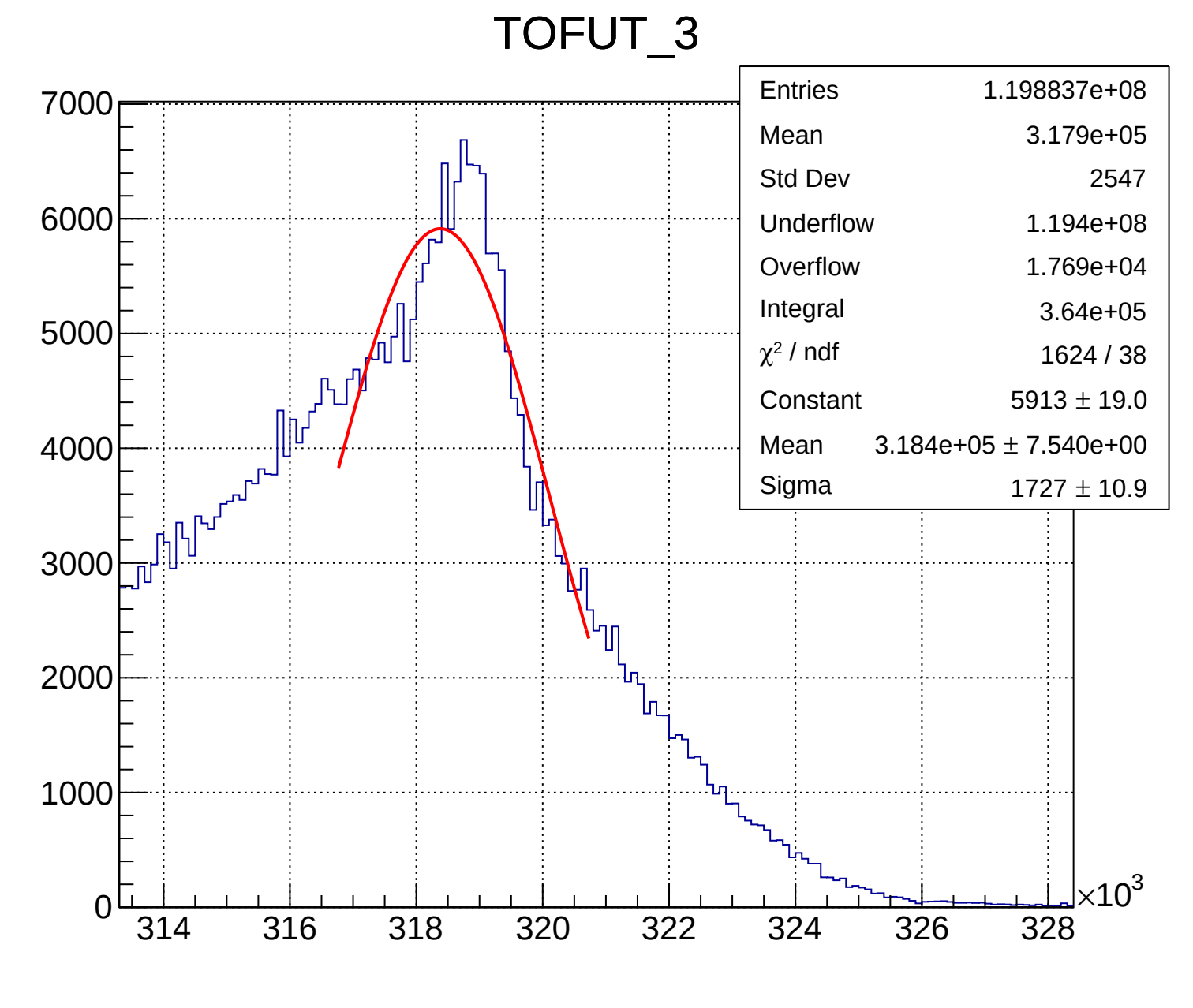
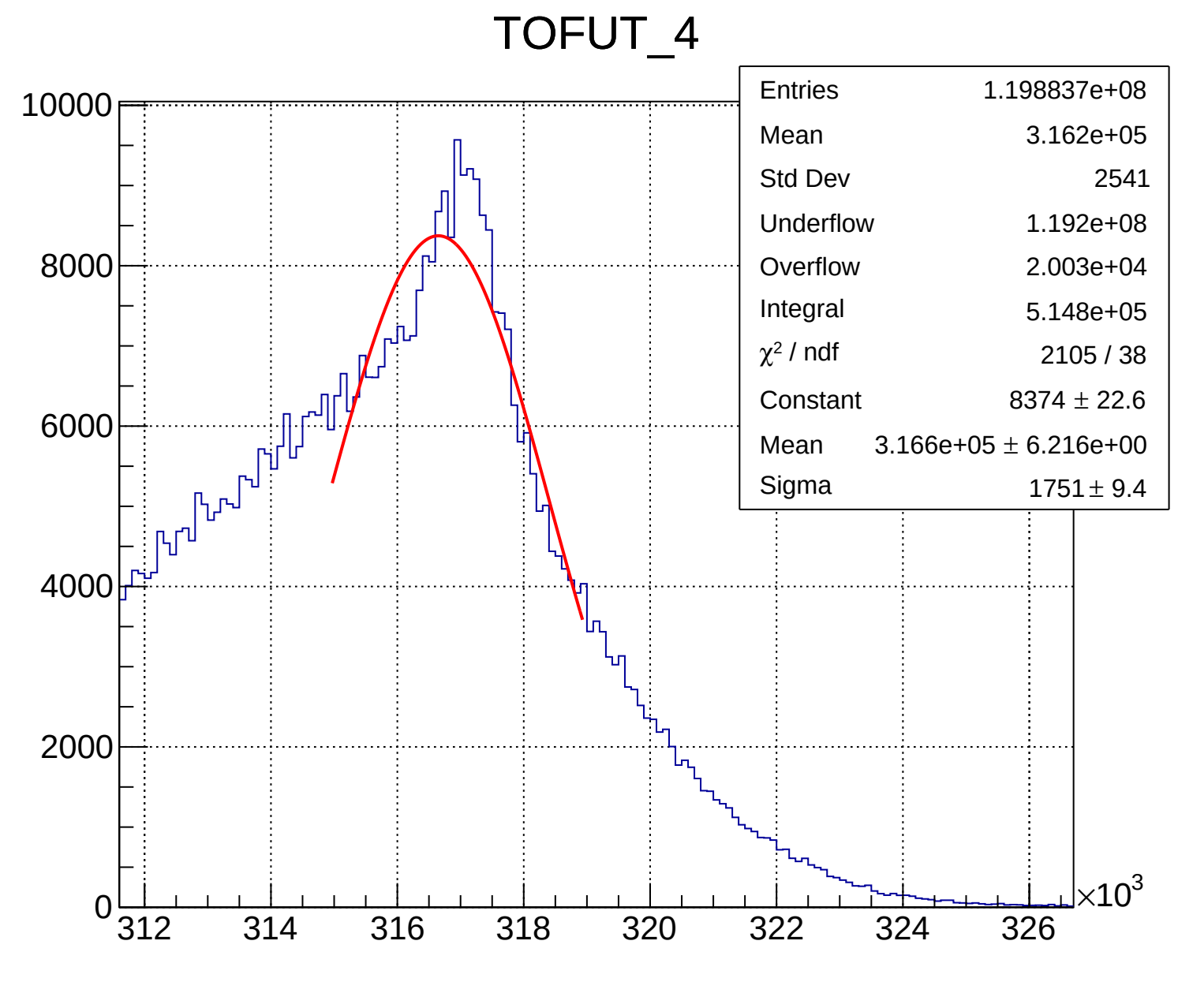
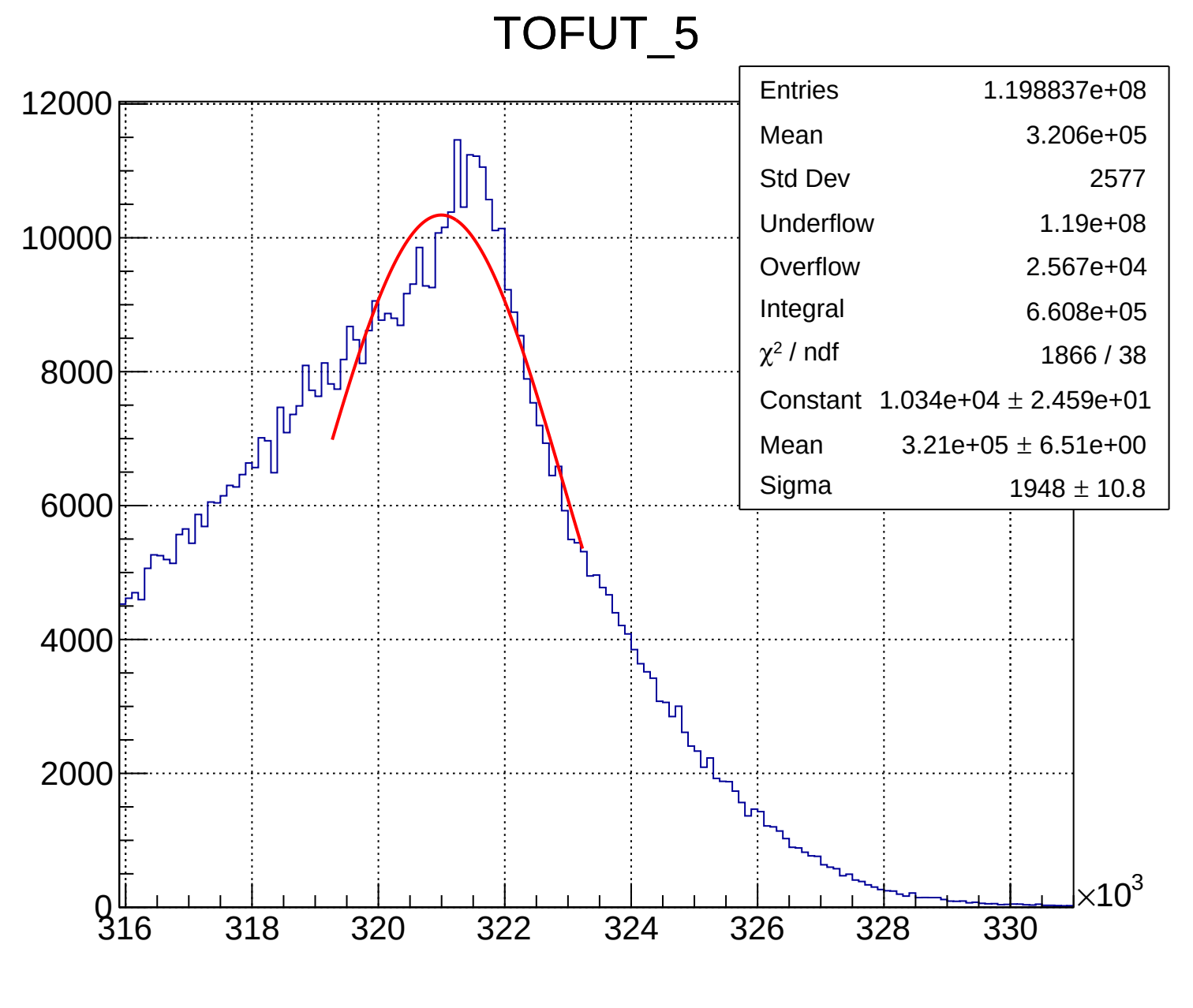

TOFHitPat
×10^3
1400
1200
1000
800
600
400
200
0
0
5
10
15
20
25
Entries 1.798256e+08
Mean 12.82
Std Dev 5.746
Underflow 1.639e+08
Overflow 0
Integral 1.59e+07

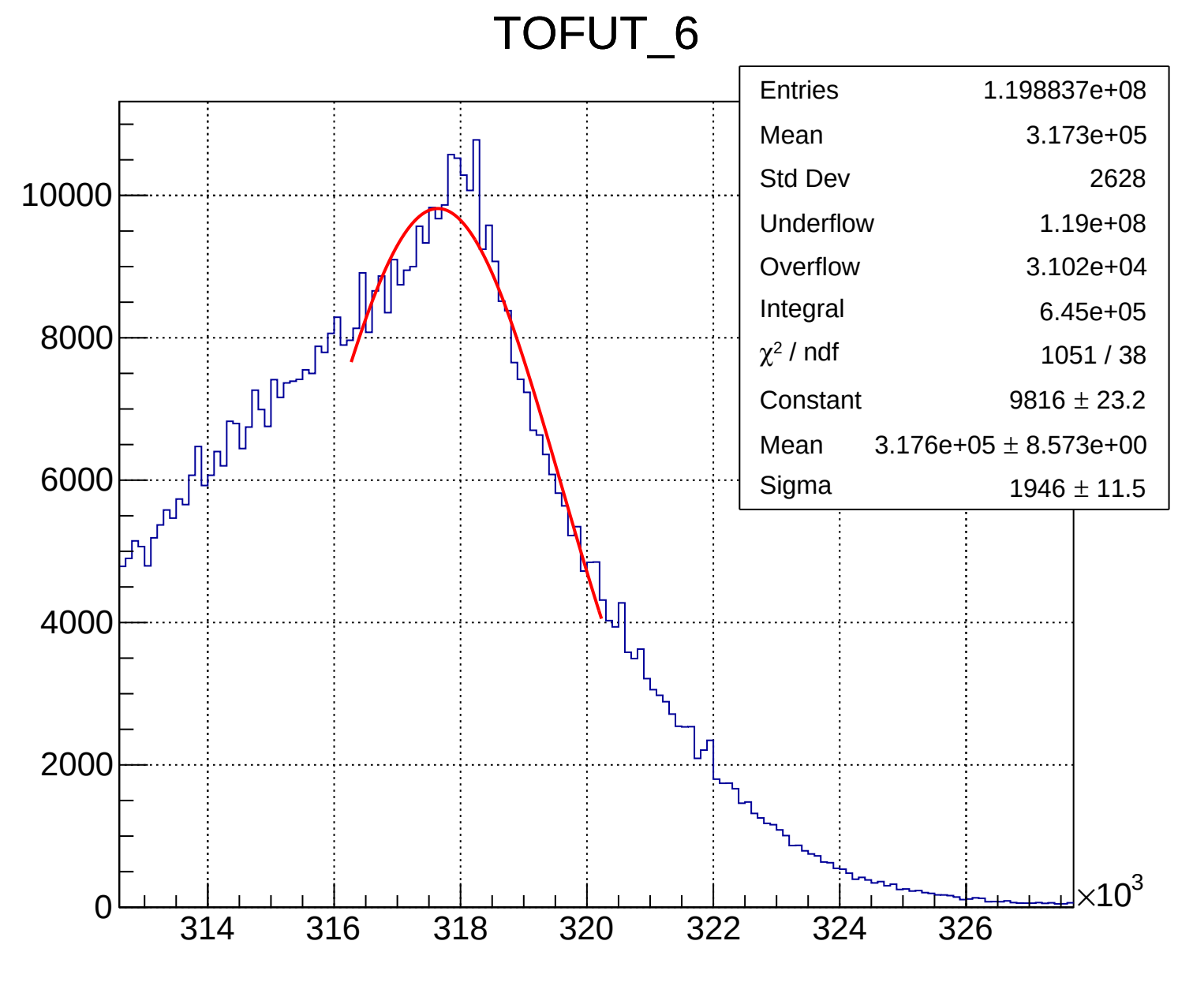

TOFUT_1
Entries 1.198837e+08
Mean 3.204e+05
Std Dev 2703
Underflow 1.198e+08
Overflow 1.402e+04
Integral 2.443e+04
χ² / ndf 79.11 / 38
Constant 410.1 ± 5.0
Mean 3.205e+05 ± 2.804e+01
Sigma 1766 ± 42.8
450
400
350
300
250
200
150
100
50
0
316
318
320
322
324
326
328
330
×10³

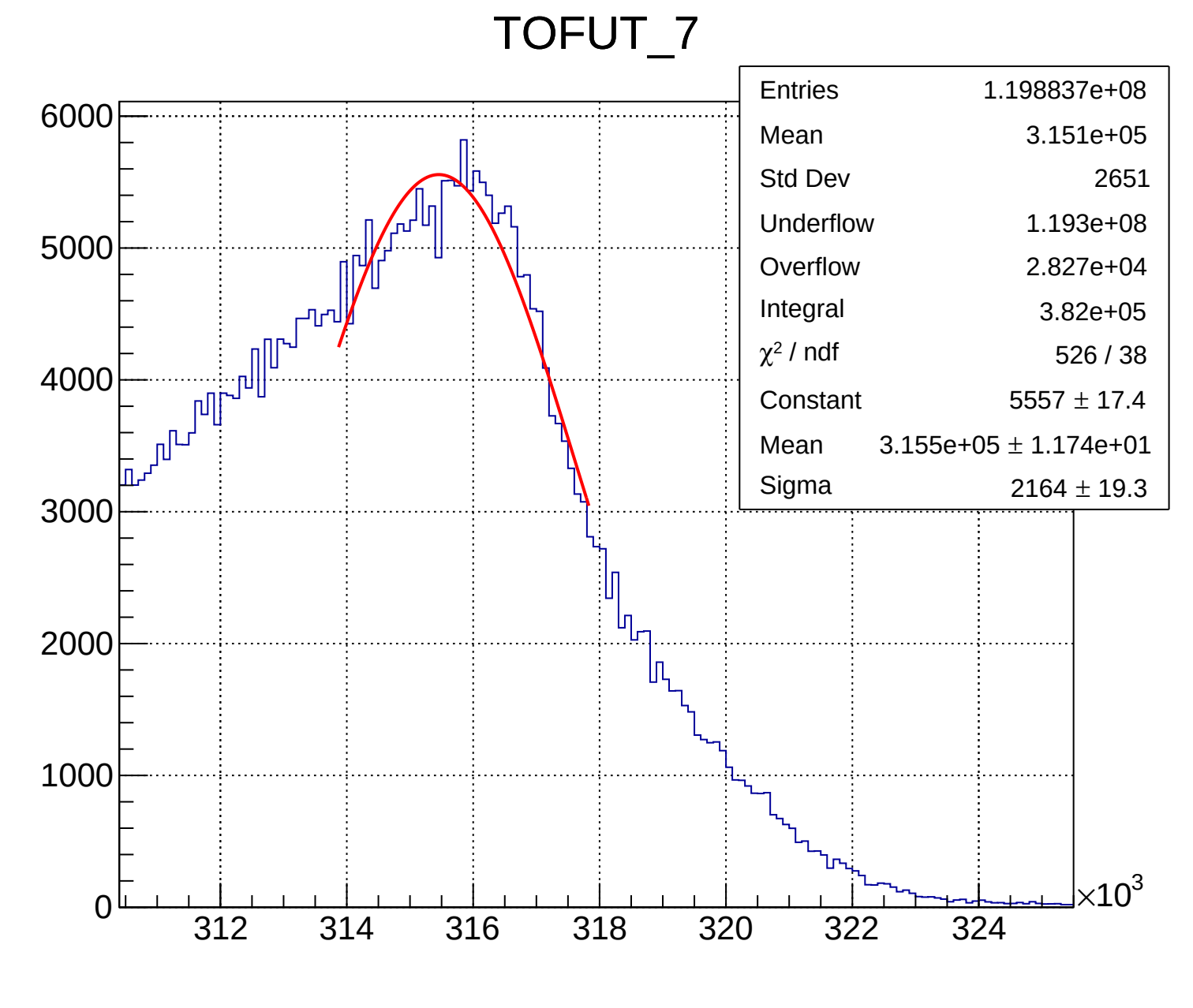

TOFUT_2
Entries 1.198837e+08
Mean 3.195e+05
Std Dev 2695
Underflow 1.198e+08
Overflow 1.384e+04
Integral 3.608e+04
χ² / ndf 99.81 / 38
Constant 606 ± 6.1
Mean 3.197e+05 ± 2.058e+01
Sigma 1646 ± 29.4
700
600
500
400
300
200
100
0
316
318
320
322
324
326
328
×10³

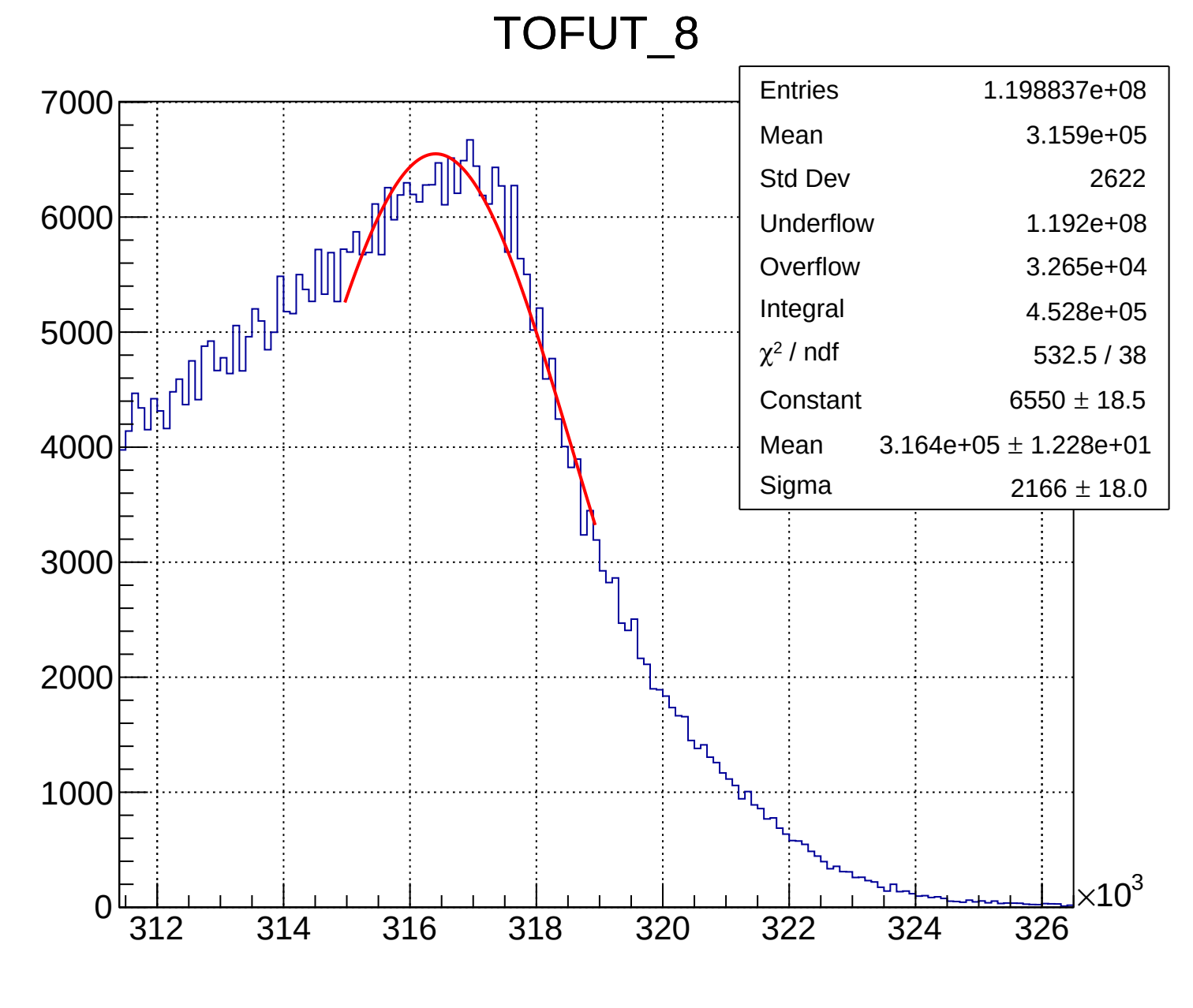

TOFUT_3
Entries 1.198837e+08
Mean 3.179e+05
Std Dev 2547
Underflow 1.194e+08
Overflow 1.769e+04
Integral 3.64e+05
χ² / ndf 1624 / 38
Constant 5913 ± 19.0
Mean 3.184e+05 ± 7.540e+00
Sigma 1727 ± 10.9
7000
6000
5000
4000
3000
2000
1000
0
314
316
318
320
322
324
326
328
×10³

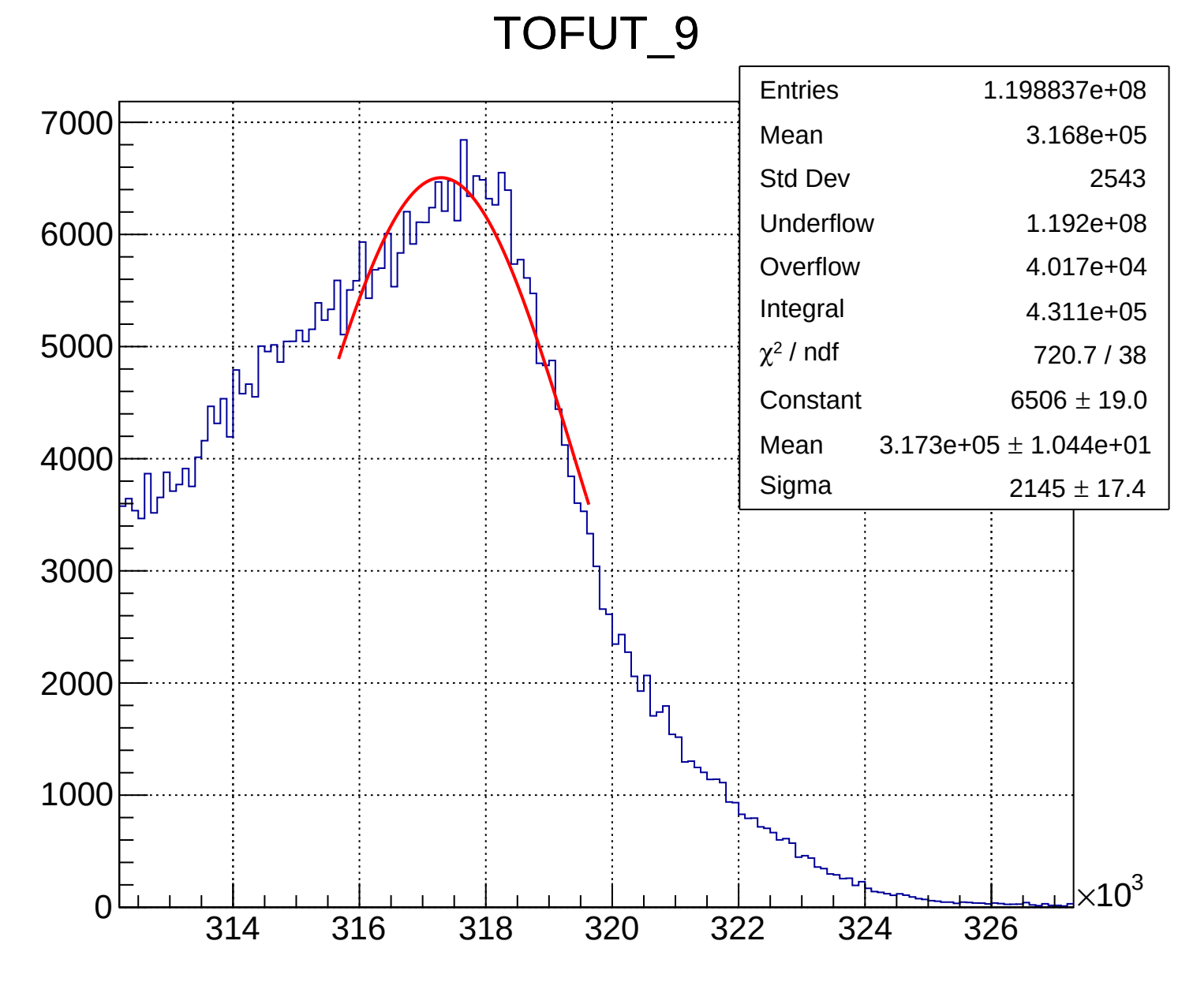

TOFUT_4
Entries 1.198837e+08
Mean 3.162e+05
Std Dev 2541
Underflow 1.192e+08
Overflow 2.003e+04
Integral 5.148e+05
χ² / ndf 2105 / 38
Constant 8374 ± 22.6
Mean 3.166e+05 ± 6.216e+00
Sigma 1751 ± 9.4
10000
8000
6000
4000
2000
0
312
314
316
318
320
322
324
326
×10³

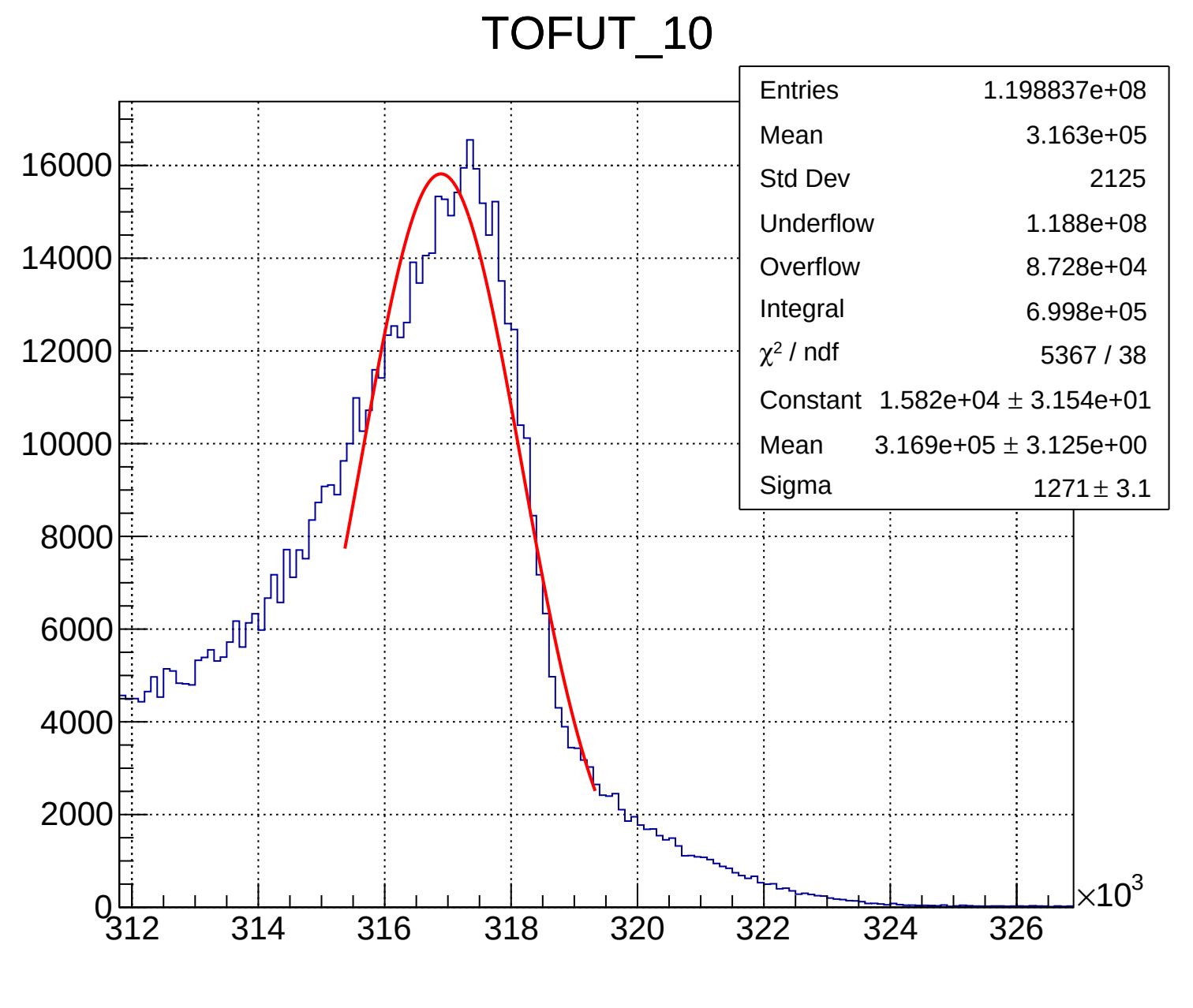

TOFUT_5
Entries 1.198837e+08
Mean 3.206e+05
Std Dev 2577
Underflow 1.19e+08
Overflow 2.567e+04
Integral 6.608e+05
χ² / ndf 1866 / 38
Constant 1.034e+04 ± 2.459e+01
Mean 3.21e+05 ± 6.51e+00
Sigma 1948 ± 10.8
12000
10000
8000
6000
4000
2000
0
316
318
320
322
324
326
328
330
×10³

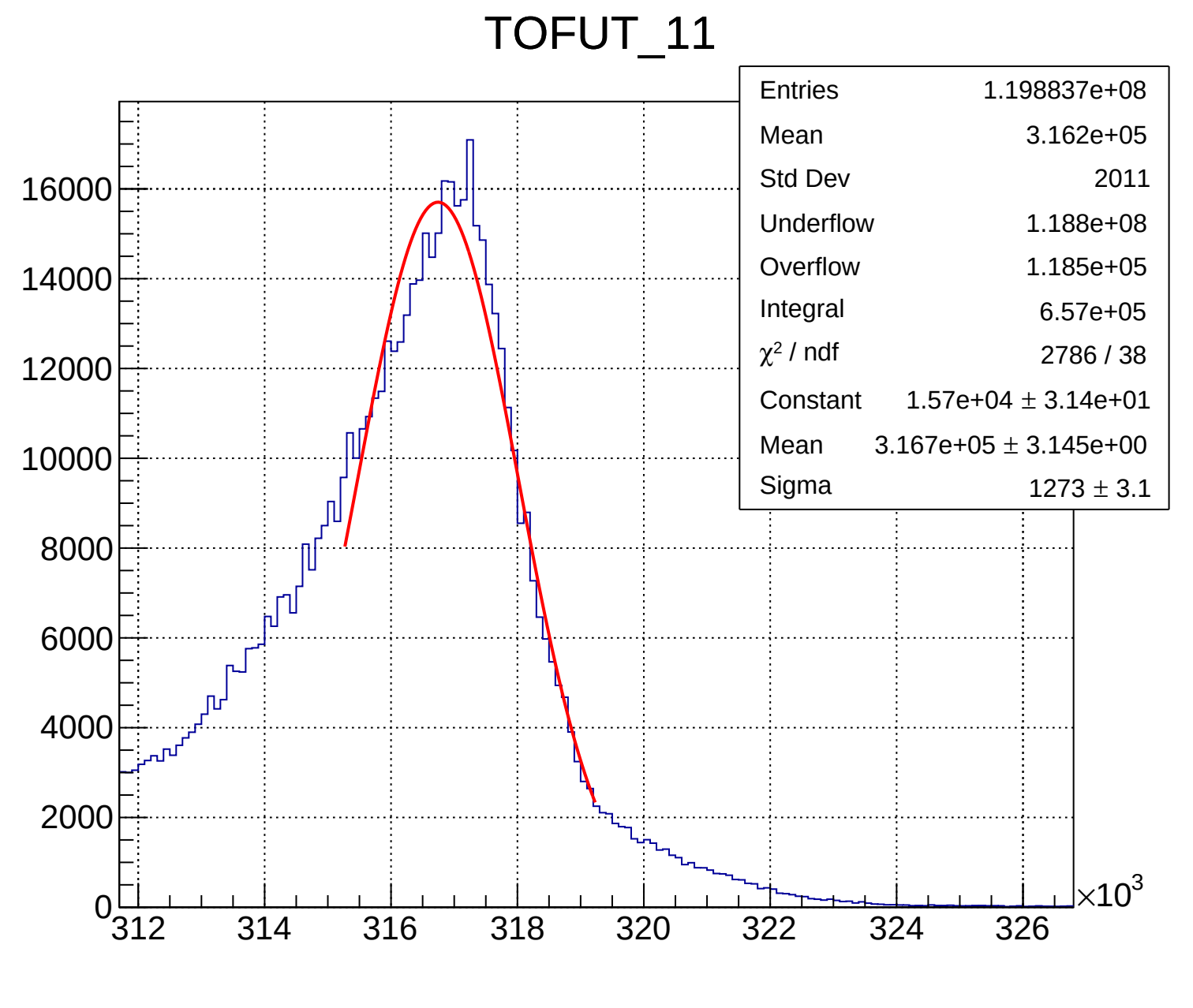

TOFUT_6
Entries 1.198837e+08
Mean 3.173e+05
Std Dev 2628
Underflow 1.19e+08
Overflow 3.102e+04
Integral 6.45e+05
χ² / ndf 1051 / 38
Constant 9816 ± 23.2
Mean 3.176e+05 ± 8.573e+00
Sigma 1946 ± 11.5
10000
8000
6000
4000
2000
0
314
316
318
320
322
324
326
×10³

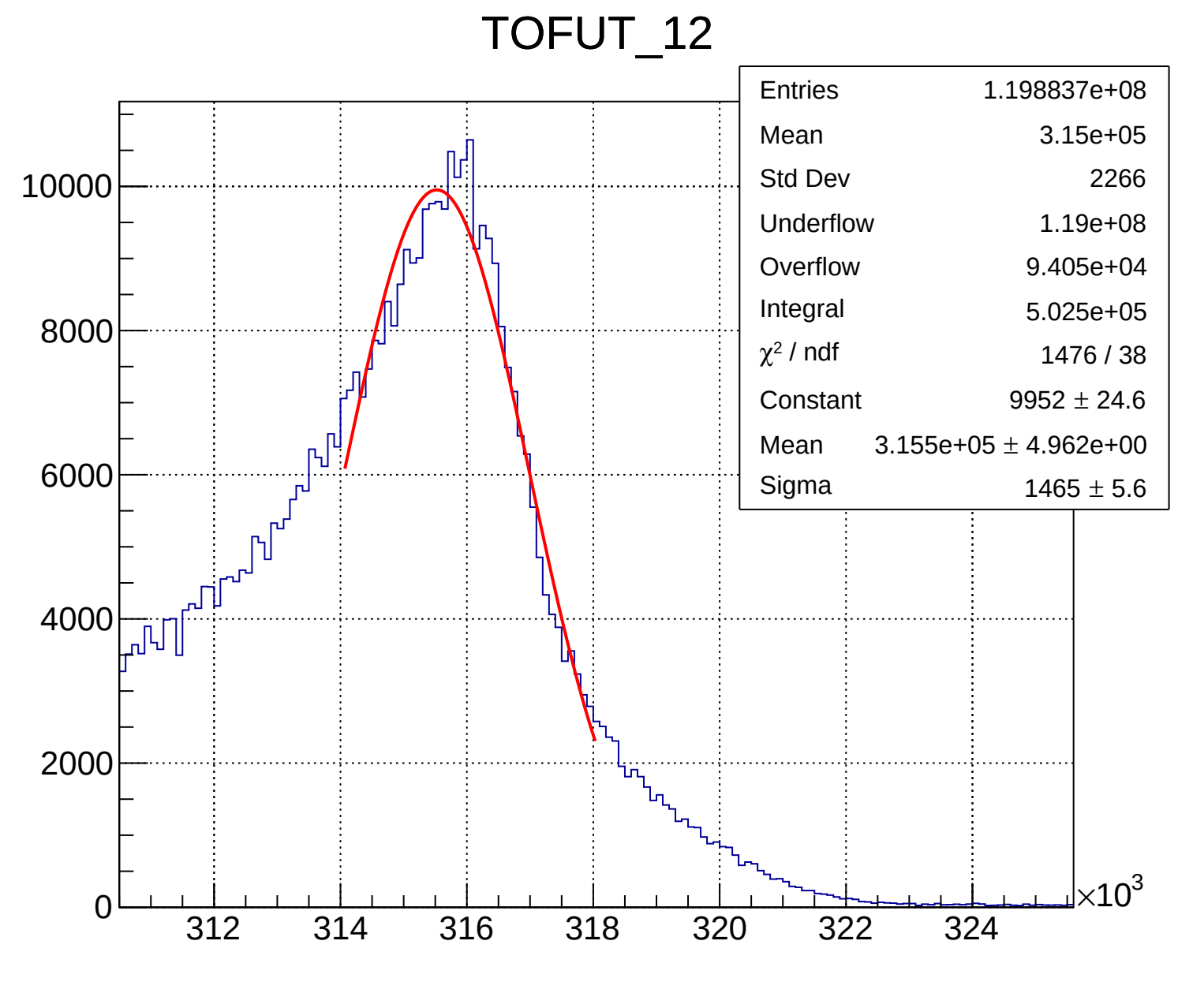

TOFUT_7
Entries 1.198837e+08
Mean 3.151e+05
Std Dev 2651
Underflow 1.193e+08
Overflow 2.827e+04
Integral 3.82e+05
χ² / ndf 526 / 38
Constant 5557 ± 17.4
Mean 3.155e+05 ± 1.174e+01
Sigma 2164 ± 19.3
6000
5000
4000
3000
2000
1000
0
312
314
316
318
320
322
324
×10³

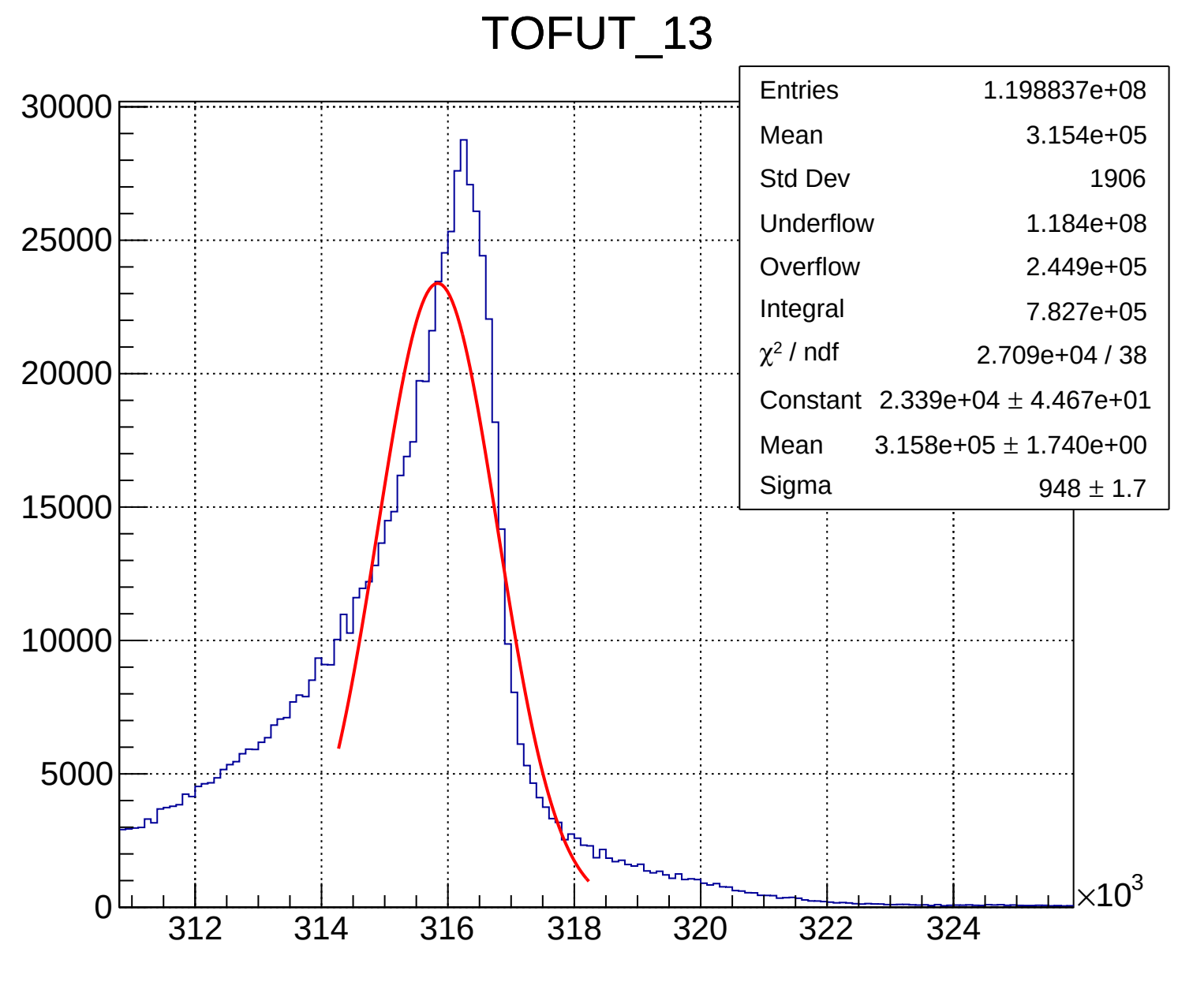

TOFUT_8
Entries 1.198837e+08
Mean 3.159e+05
Std Dev 2622
Underflow 1.192e+08
Overflow 3.265e+04
Integral 4.528e+05
χ² / ndf 532.5 / 38
Constant 6550 ± 18.5
Mean 3.164e+05 ± 1.228e+01
Sigma 2166 ± 18.0
7000
6000
5000
4000
3000
2000
1000
0
312
314
316
318
320
322
324
326
×10³

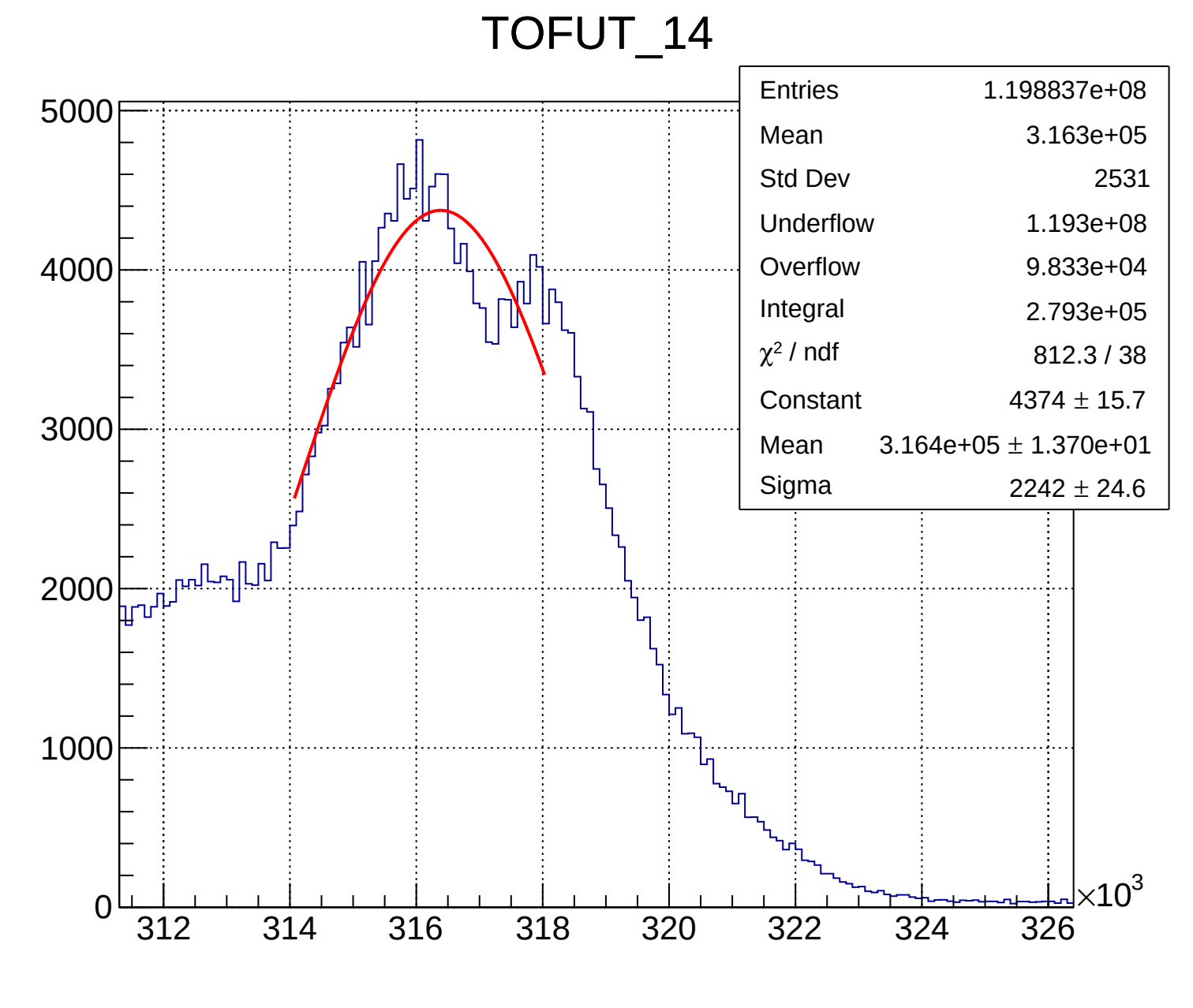

TOFUT_9
Entries 1.198837e+08
Mean 3.168e+05
Std Dev 2543
Underflow 1.192e+08
Overflow 4.017e+04
Integral 4.311e+05
χ² / ndf 720.7 / 38
Constant 6506 ± 19.0
Mean 3.173e+05 ± 1.044e+01
Sigma 2145 ± 17.4
7000
6000
5000
4000
3000
2000
1000
0
314
316
318
320
322
324
326
×10³

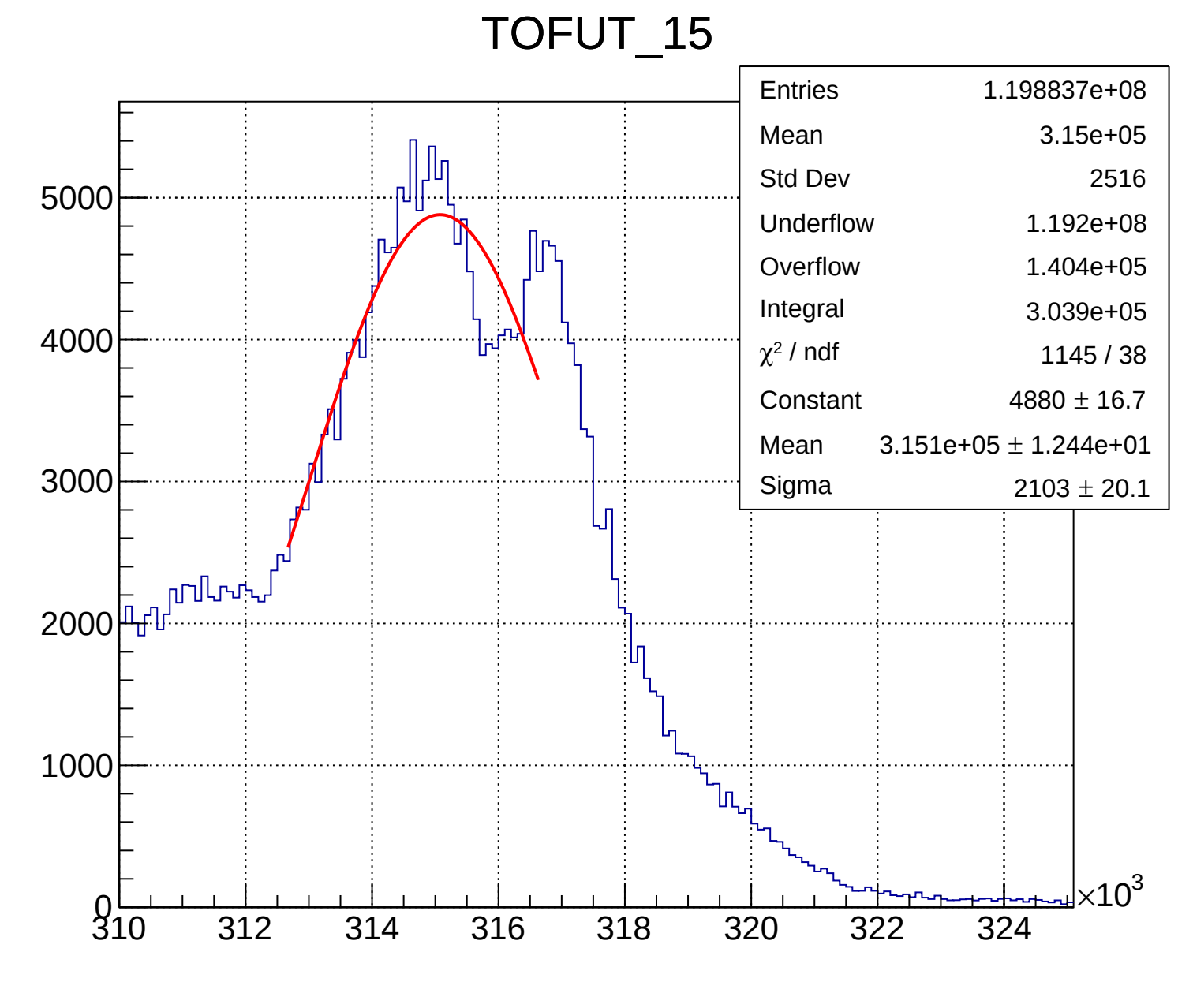

TOFUT_10
Entries 1.198837e+08
Mean 3.163e+05
Std Dev 2125
Underflow 1.188e+08
Overflow 8.728e+04
Integral 6.998e+05
χ² / ndf 5367 / 38
Constant 1.582e+04 ± 3.154e+01
Mean 3.169e+05 ± 3.125e+00
Sigma 1271 ± 3.1
16000
14000
12000
10000
8000
6000
4000
2000
0
312
314
316
318
320
322
324
326
×10³

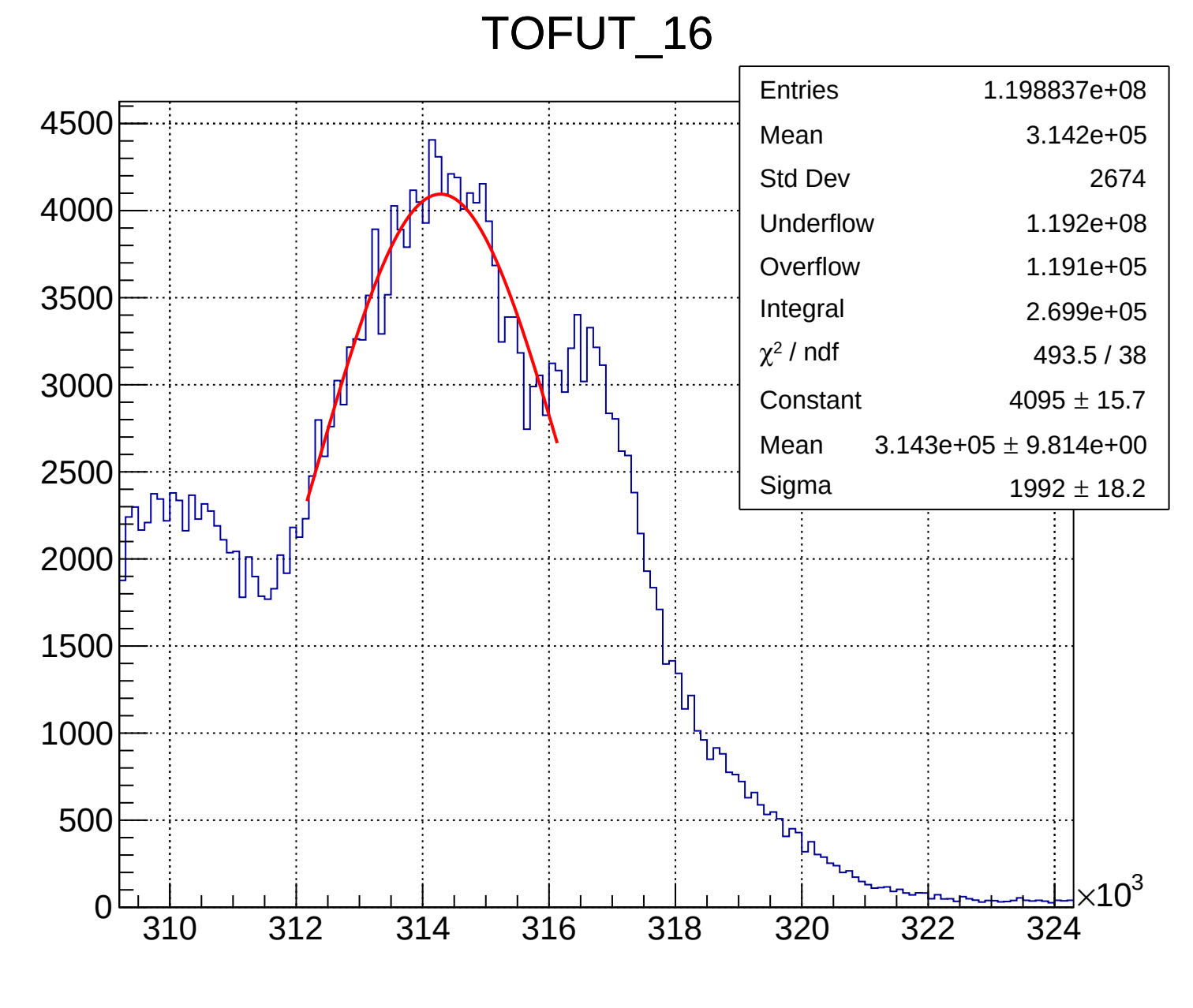

TOFUT_11
Entries 1.198837e+08
Mean 3.162e+05
Std Dev 2011
Underflow 1.188e+08
Overflow 1.185e+05
Integral 6.57e+05
χ² / ndf 2786 / 38
Constant 1.57e+04 ± 3.14e+01
Mean 3.167e+05 ± 3.145e+00
Sigma 1273 ± 3.1
16000
14000
12000
10000
8000
6000
4000
2000
0
312
314
316
318
320
322
324
326
×10³

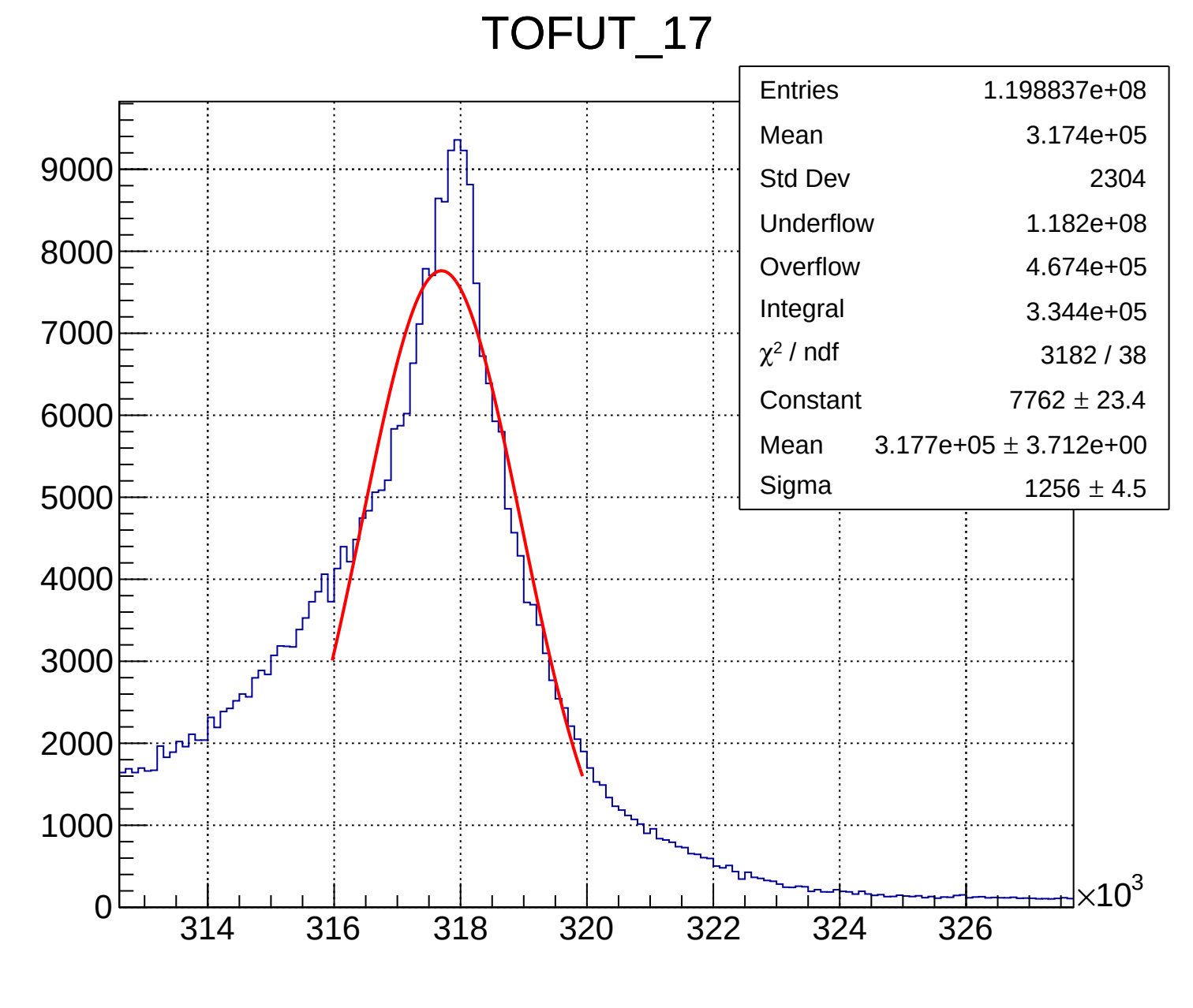

TOFUT_12
Entries 1.198837e+08
Mean 3.15e+05
Std Dev 2266
Underflow 1.19e+08
Overflow 9.405e+04
Integral 5.025e+05
χ² / ndf 1476 / 38
Constant 9952 ± 24.6
Mean 3.155e+05 ± 4.962e+00
Sigma 1465 ± 5.6
10000
8000
6000
4000
2000
0
312
314
316
318
320
322
324
×10³

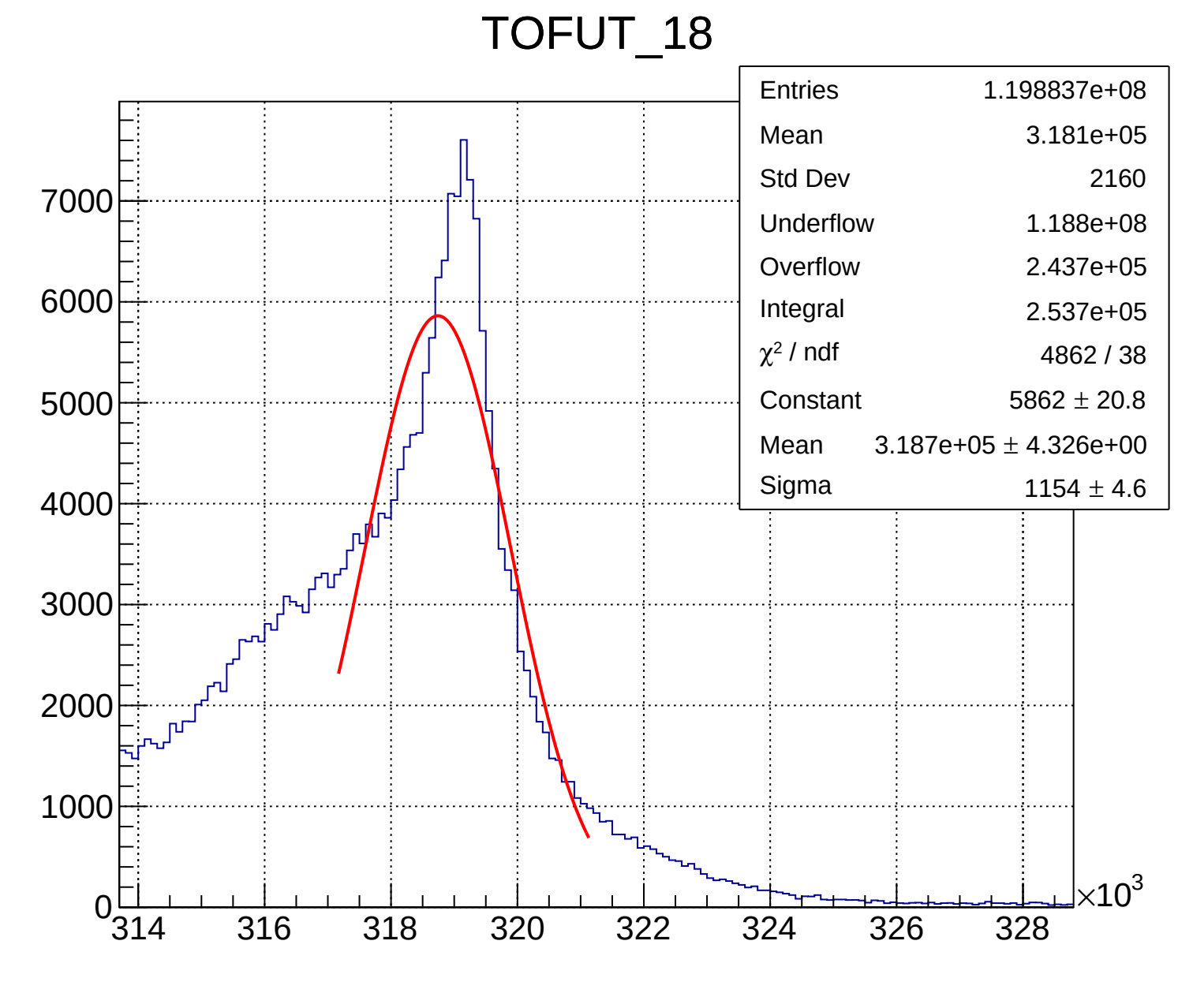

TOFUT_13
Entries 1.198837e+08
Mean 3.154e+05
Std Dev 1906
Underflow 1.184e+08
Overflow 2.449e+05
Integral 7.827e+05
χ² / ndf 2.709e+04 / 38
Constant 2.339e+04 ± 4.467e+01
Mean 3.158e+05 ± 1.740e+00
Sigma 948 ± 1.7
30000
25000
20000
15000
10000
5000
0
312
314
316
318
320
322
324
×10³

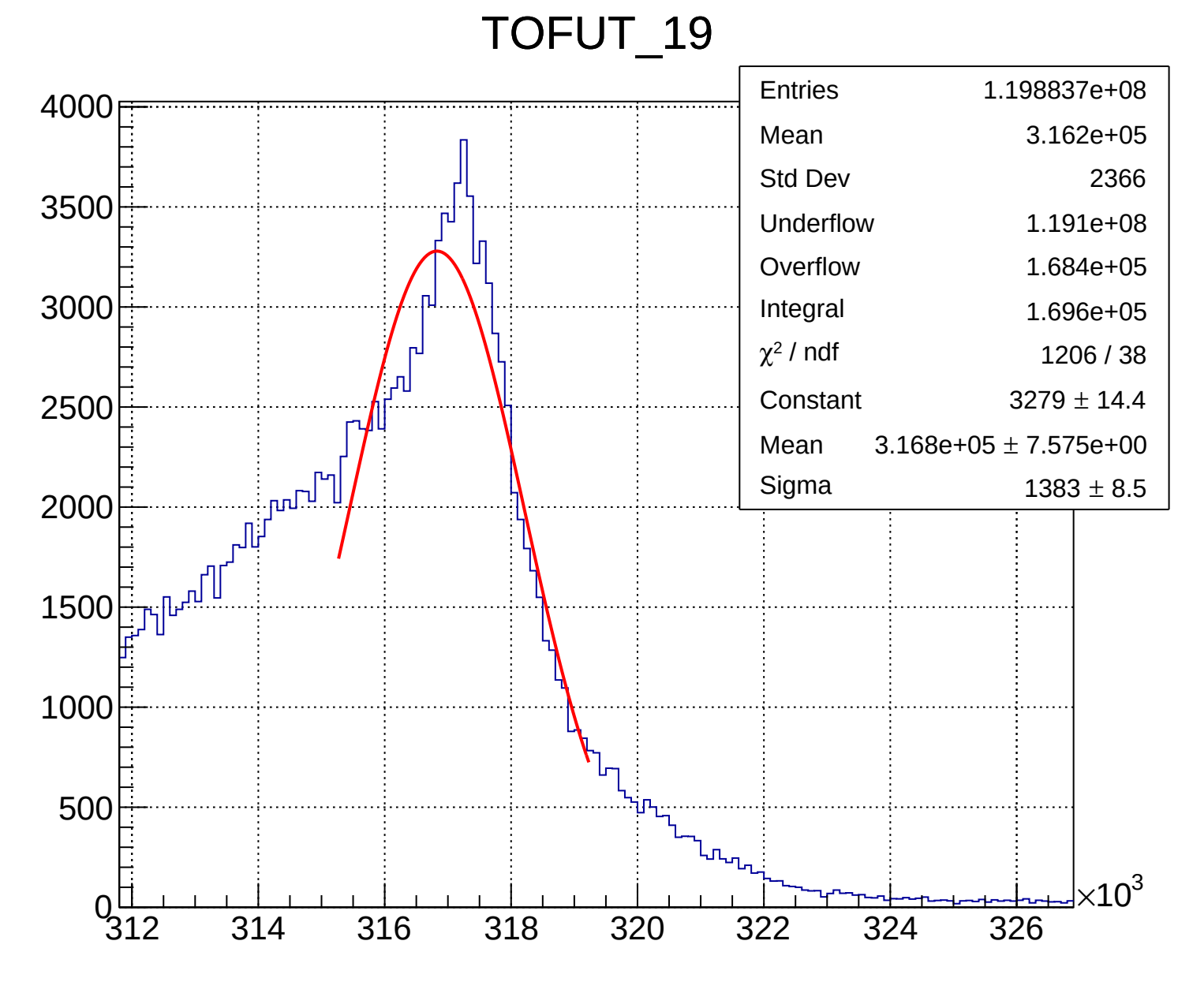

TOFUT_14
Entries 1.198837e+08
Mean 3.163e+05
Std Dev 2531
Underflow 1.193e+08
Overflow 9.833e+04
Integral 2.793e+05
χ² / ndf 812.3 / 38
Constant 4374 ± 15.7
Mean 3.164e+05 ± 1.370e+01
Sigma 2242 ± 24.6
5000
4000
3000
2000
1000
0
312
314
316
318
320
322
324
326
×10³

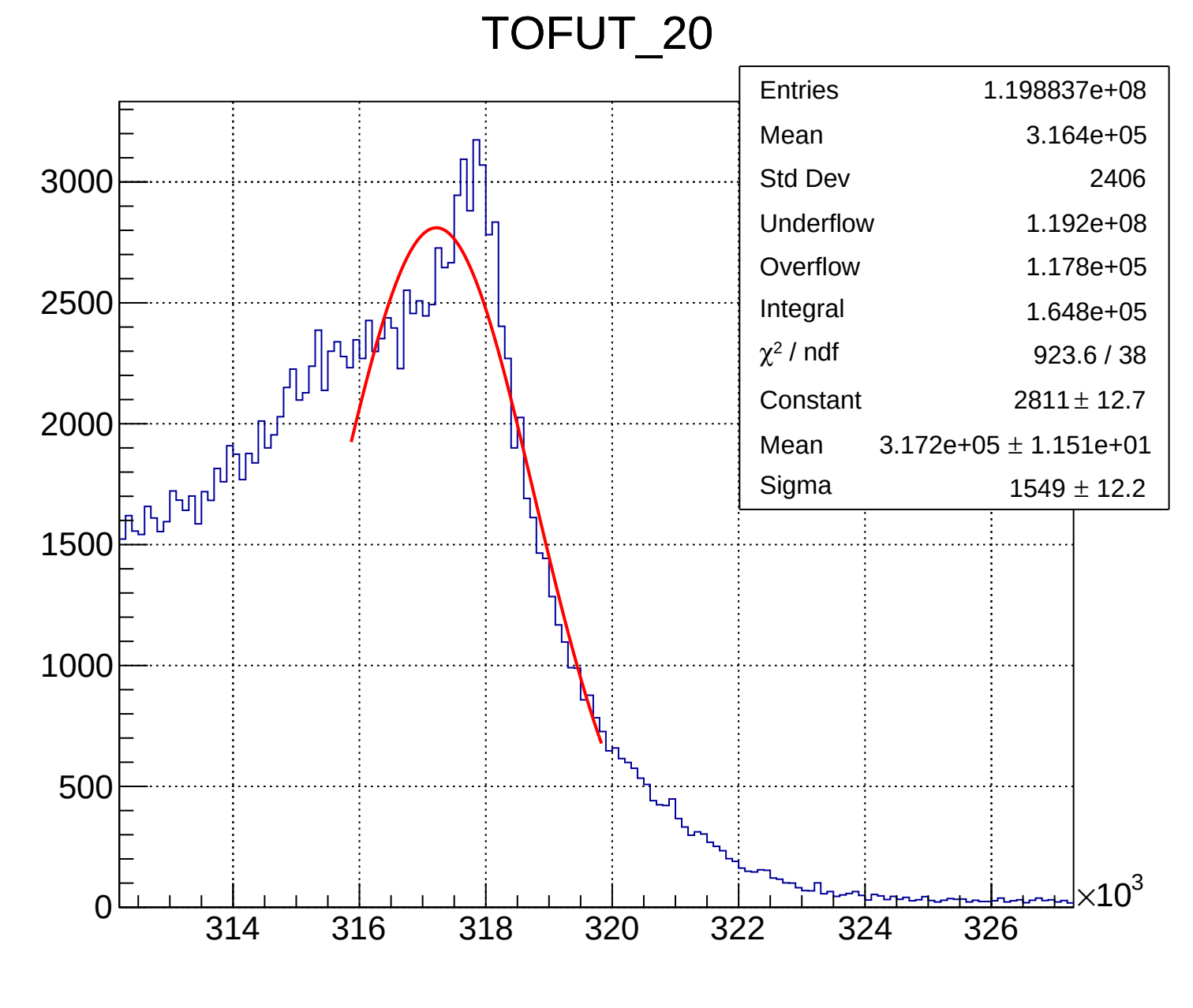

TOFUT_15
Entries 1.198837e+08
Mean 3.15e+05
Std Dev 2516
Underflow 1.192e+08
Overflow 1.404e+05
Integral 3.039e+05
χ² / ndf 1145 / 38
Constant 4880 ± 16.7
Mean 3.151e+05 ± 1.244e+01
Sigma 2103 ± 20.1
5000
4000
3000
2000
1000
0
310
312
314
316
318
320
322
324
×10³

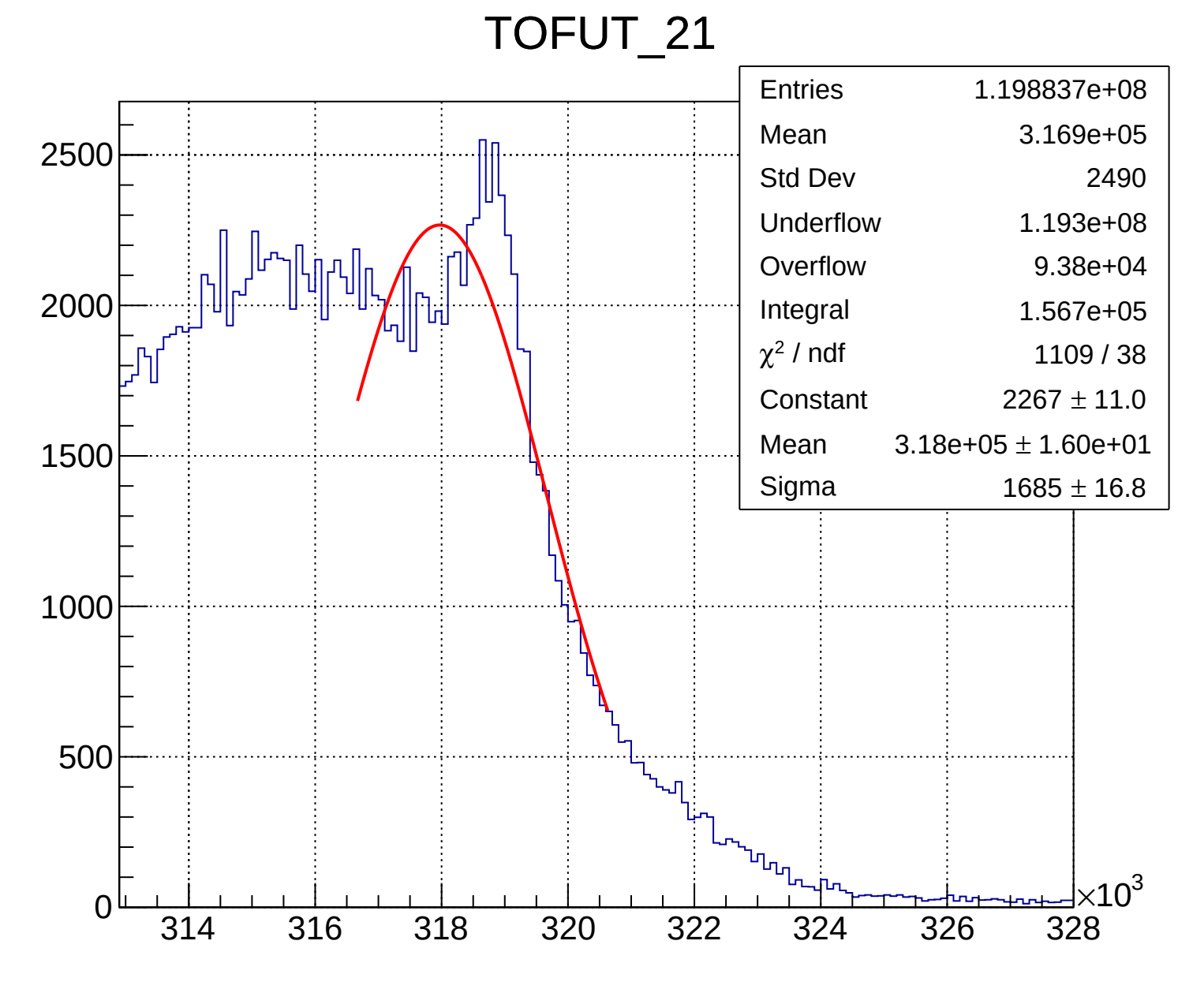

TOFUT_16
Entries 1.198837e+08
Mean 3.142e+05
Std Dev 2674
Underflow 1.192e+08
Overflow 1.191e+05
Integral 2.699e+05
χ² / ndf 493.5 / 38
Constant 4095 ± 15.7
Mean 3.143e+05 ± 9.814e+00
Sigma 1992 ± 18.2
4500
4000
3500
3000
2500
2000
1500
1000
500
0
310
312
314
316
318
320
322
324
×10³

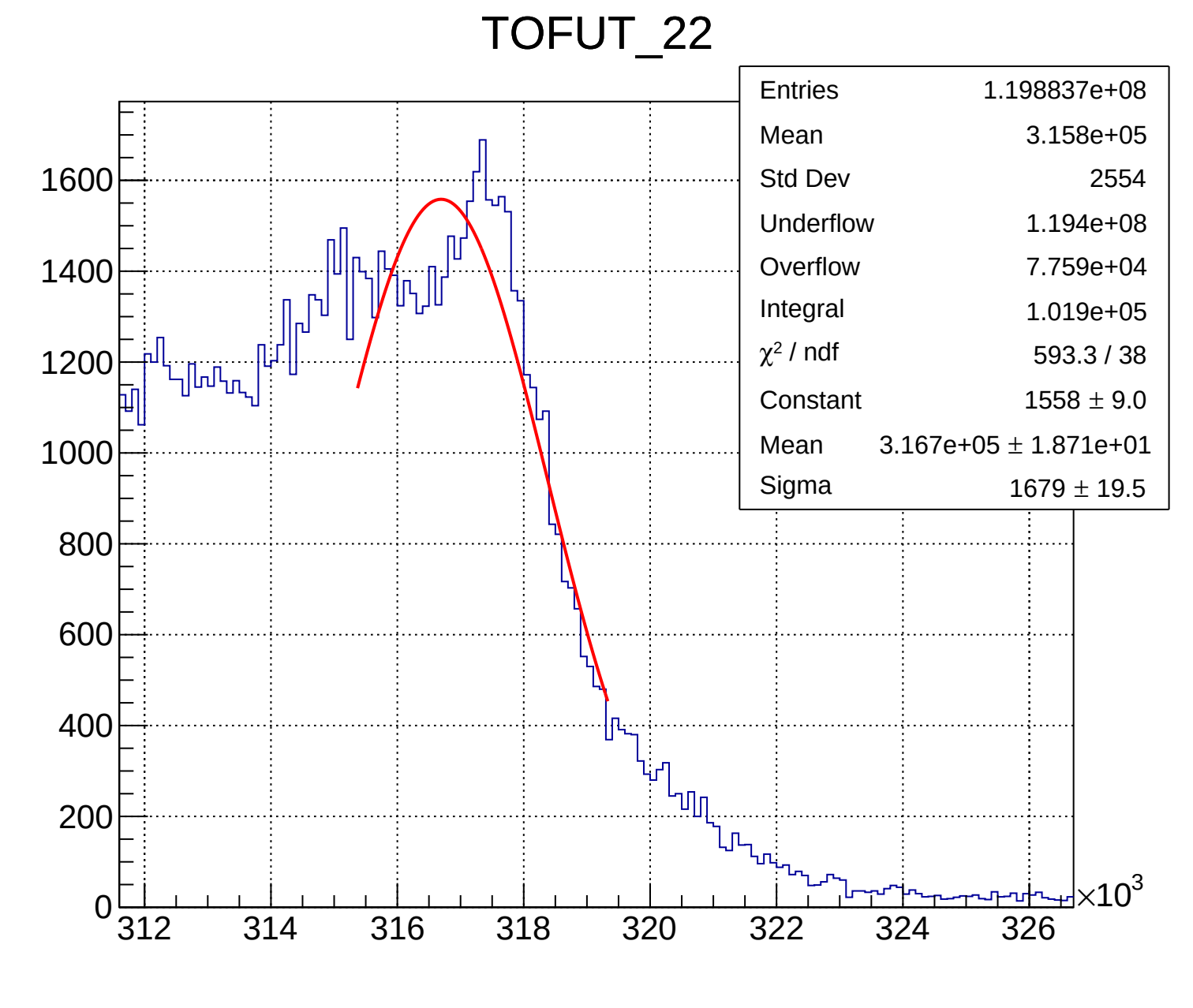

TOFUT_17
Entries 1.198837e+08
Mean 3.174e+05
Std Dev 2304
Underflow 1.182e+08
Overflow 4.674e+05
Integral 3.344e+05
χ² / ndf 3182 / 38
Constant 7762 ± 23.4
Mean 3.177e+05 ± 3.712e+00
Sigma 1256 ± 4.5
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
314
316
318
320
322
324
326
×10³

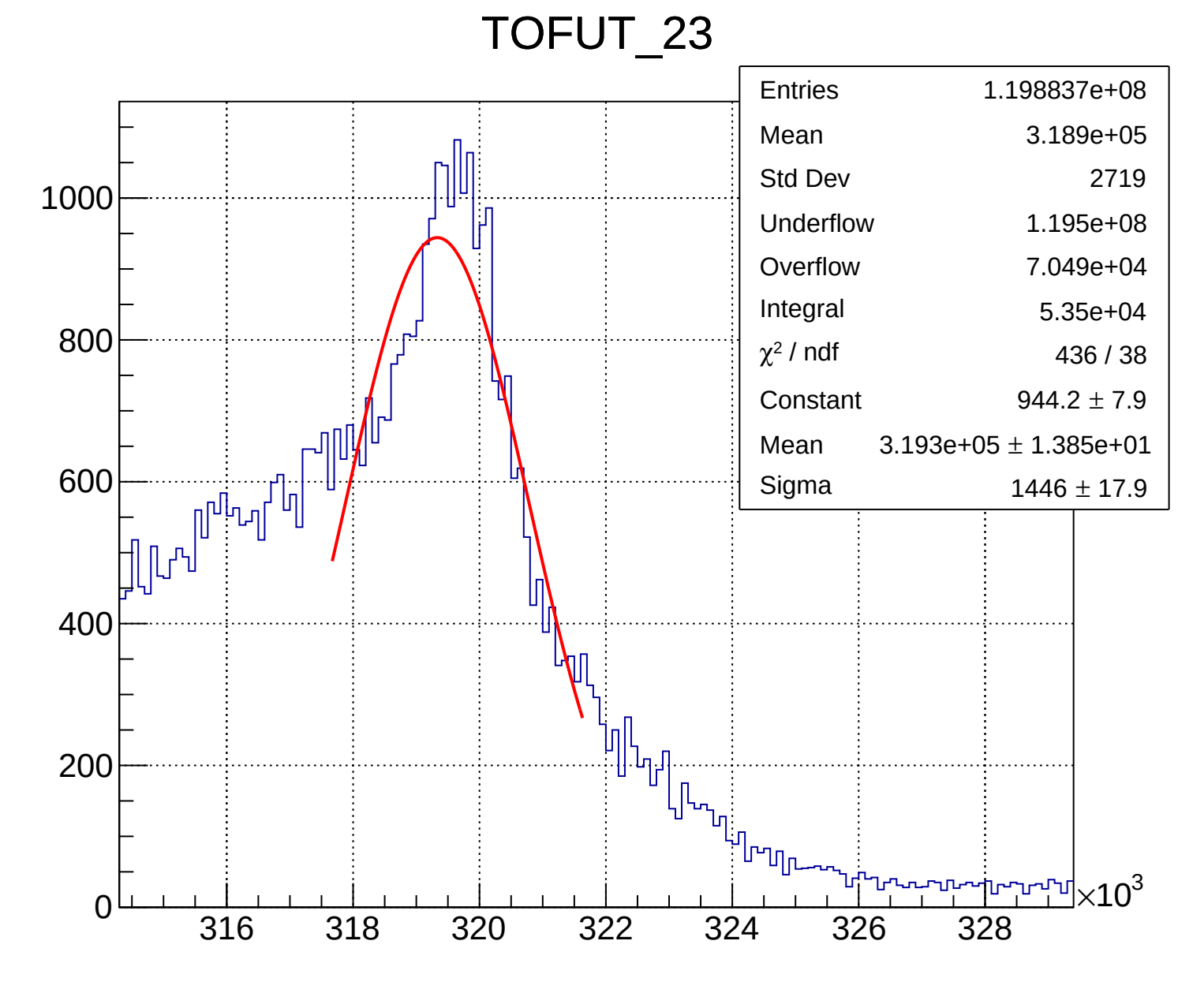

TOFUT_18
Entries 1.198837e+08
Mean 3.181e+05
Std Dev 2160
Underflow 1.188e+08
Overflow 2.437e+05
Integral 2.537e+05
χ² / ndf 4862 / 38
Constant 5862 ± 20.8
Mean 3.187e+05 ± 4.326e+00
Sigma 1154 ± 4.6
7000
6000
5000
4000
3000
2000
1000
0
314
316
318
320
322
324
326
328
×10³

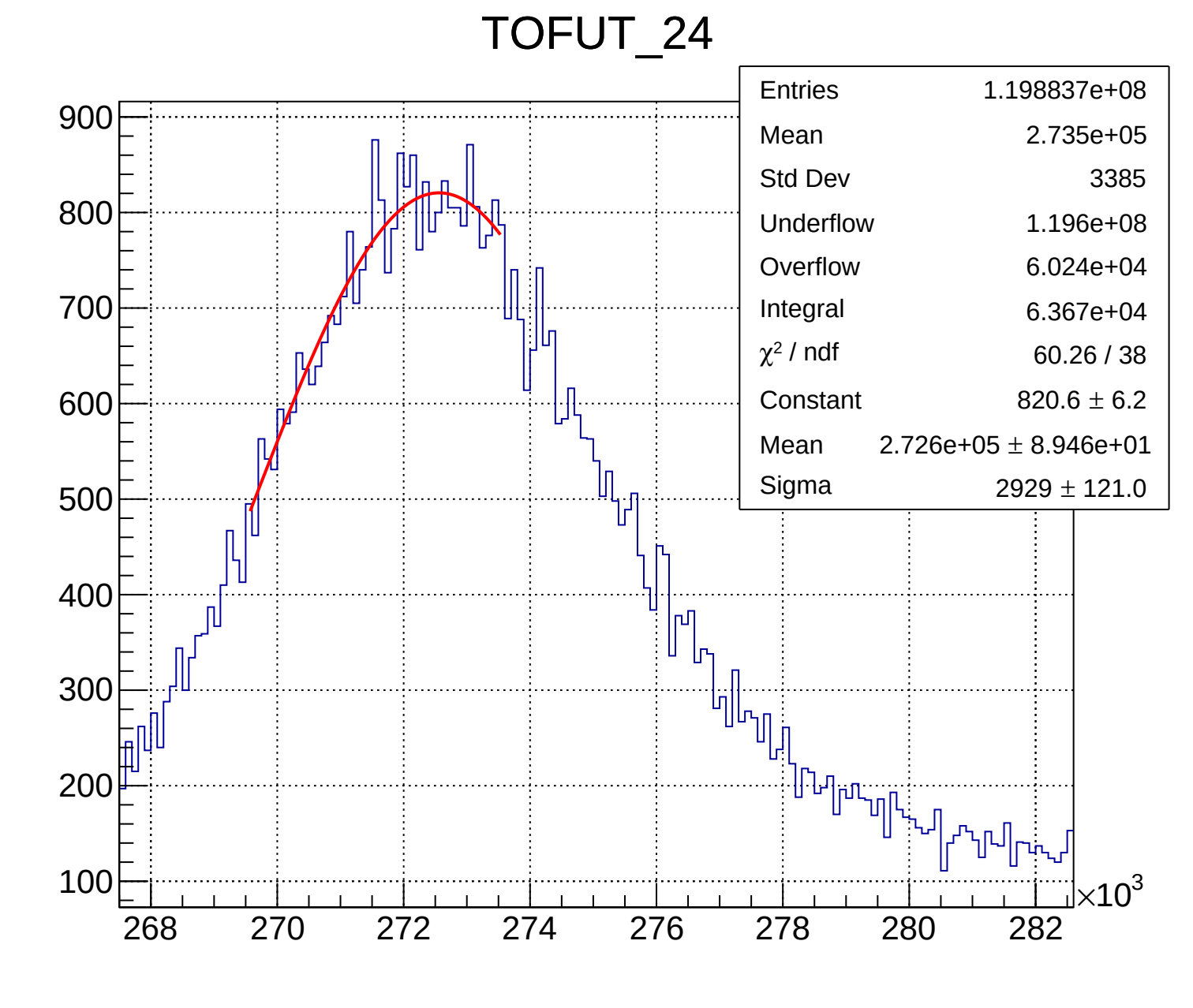

TOFUT_19
Entries 1.198837e+08
Mean 3.162e+05
Std Dev 2366
Underflow 1.191e+08
Overflow 1.684e+05
Integral 1.696e+05
χ² / ndf 1206 / 38
Constant 3279 ± 14.4
Mean 3.168e+05 ± 7.575e+00
Sigma 1383 ± 8.5
4000
3500
3000
2500
2000
1500
1000
500
0
312
314
316
318
320
322
324
326
×10³

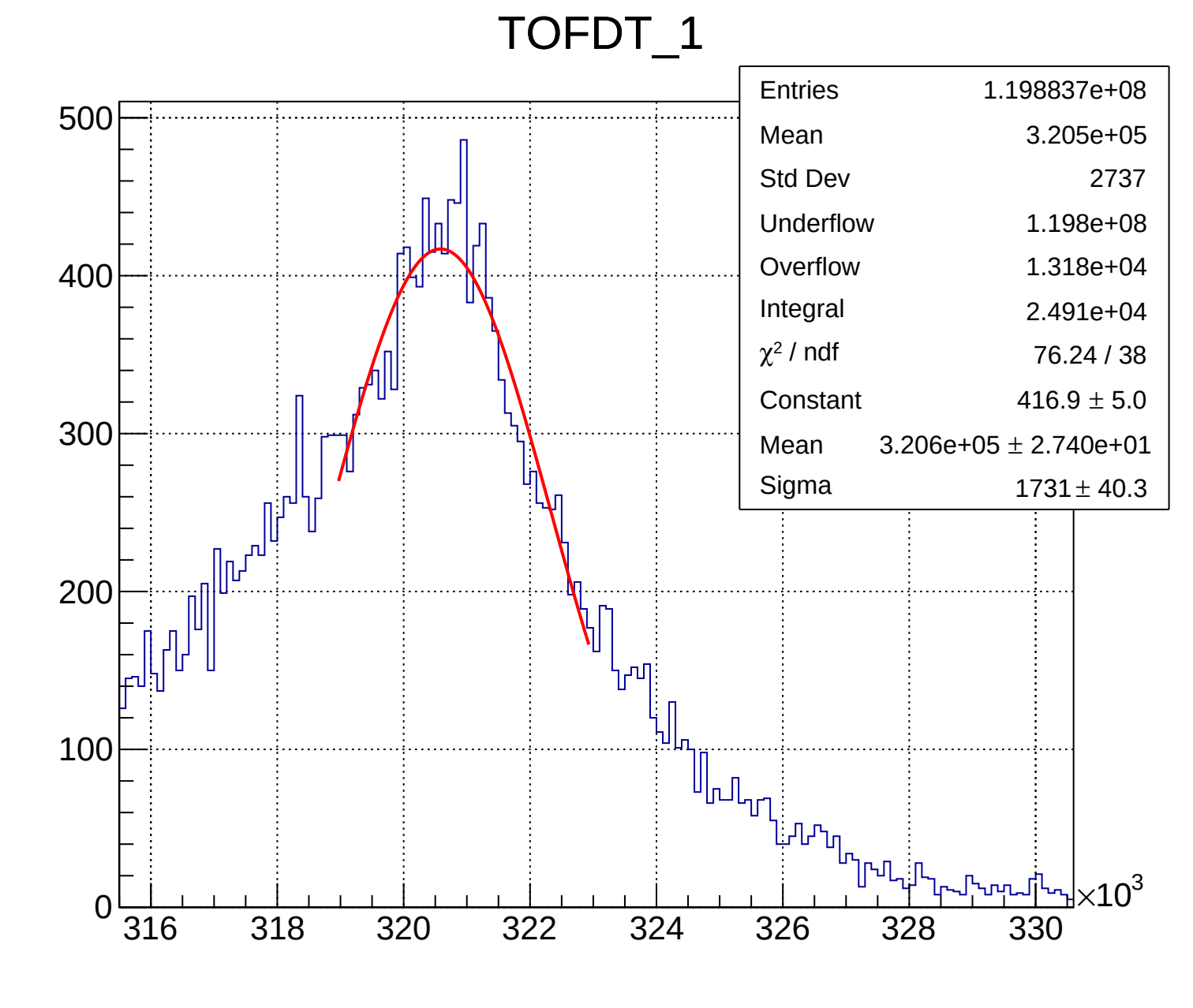

TOFUT_20
Entries 1.198837e+08
Mean 3.164e+05
Std Dev 2406
Underflow 1.192e+08
Overflow 1.178e+05
Integral 1.648e+05
χ² / ndf 923.6 / 38
Constant 2811 ± 12.7
Mean 3.172e+05 ± 1.151e+01
Sigma 1549 ± 12.2
3000
2500
2000
1500
1000
500
0
314
316
318
320
322
324
326
×10³

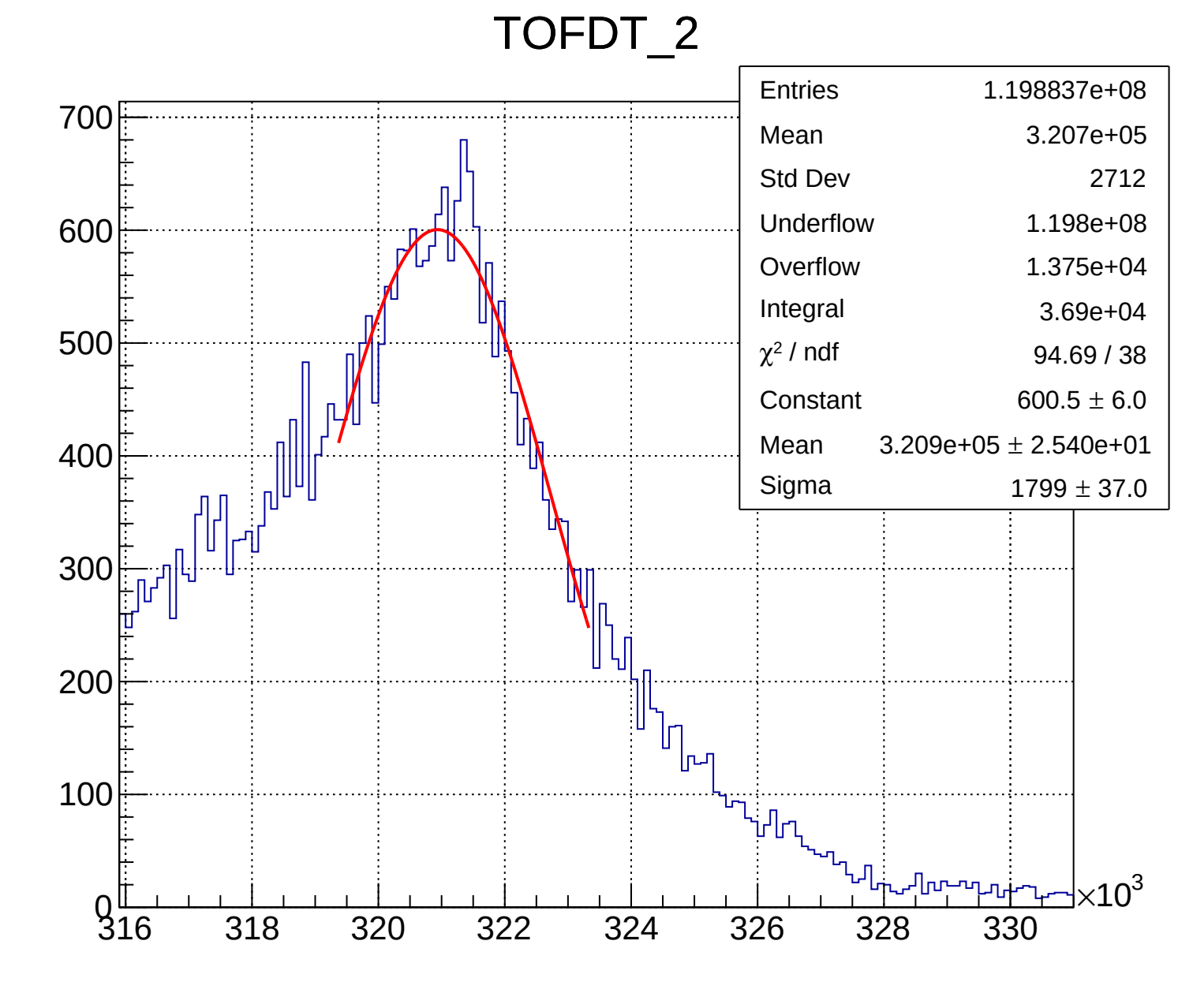

TOFUT_21
Entries 1.198837e+08
Mean 3.169e+05
Std Dev 2490
Underflow 1.193e+08
Overflow 9.38e+04
Integral 1.567e+05
χ² / ndf 1109 / 38
Constant 2267 ± 11.0
Mean 3.18e+05 ± 1.60e+01
Sigma 1685 ± 16.8
2500
2000
1500
1000
500
0
314
316
318
320
322
324
326
328
×10³

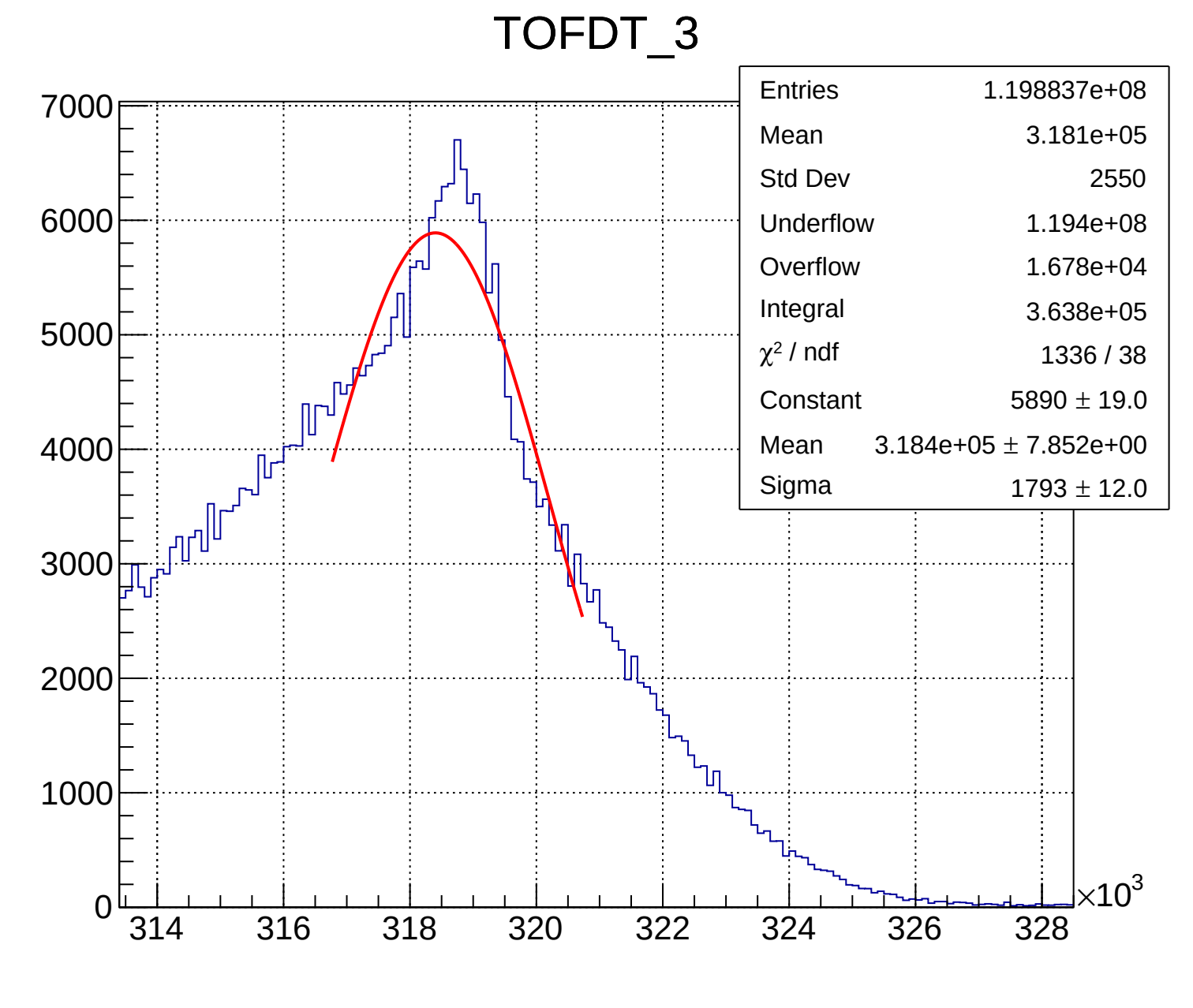

TOFUT_22
Entries 1.198837e+08
Mean 3.158e+05
Std Dev 2554
Underflow 1.194e+08
Overflow 7.759e+04
Integral 1.019e+05
χ² / ndf 593.3 / 38
Constant 1558 ± 9.0
Mean 3.167e+05 ± 1.871e+01
Sigma 1679 ± 19.5
1600
1400
1200
1000
800
600
400
200
0
312
314
316
318
320
322
324
326
×10³

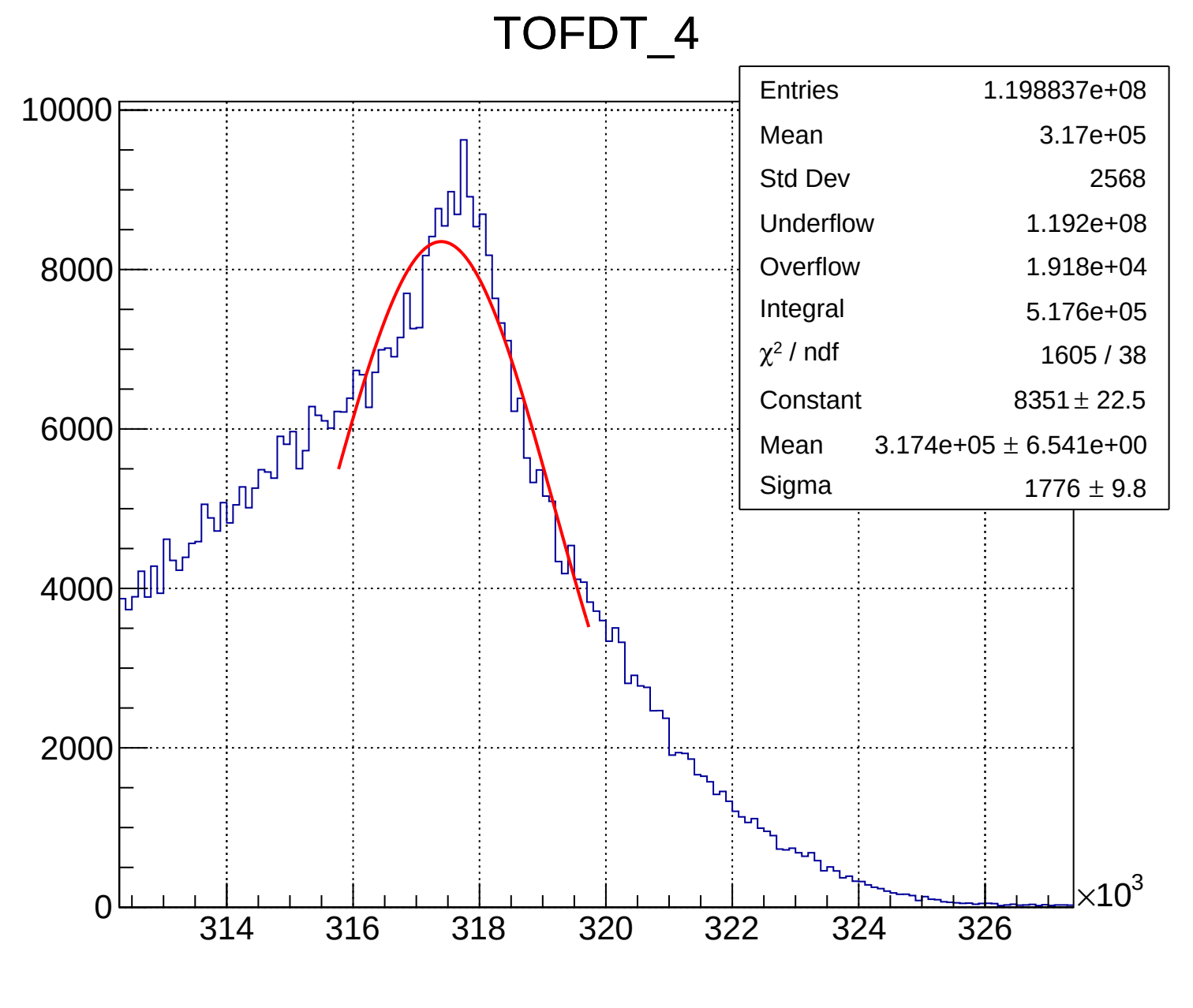

TOFUT_23
Entries 1.198837e+08
Mean 3.189e+05
Std Dev 2719
Underflow 1.195e+08
Overflow 7.049e+04
Integral 5.35e+04
χ² / ndf 436 / 38
Constant 944.2 ± 7.9
Mean 3.193e+05 ± 1.385e+01
Sigma 1446 ± 17.9
1000
800
600
400
200
0
316
318
320
322
324
326
328
×10³

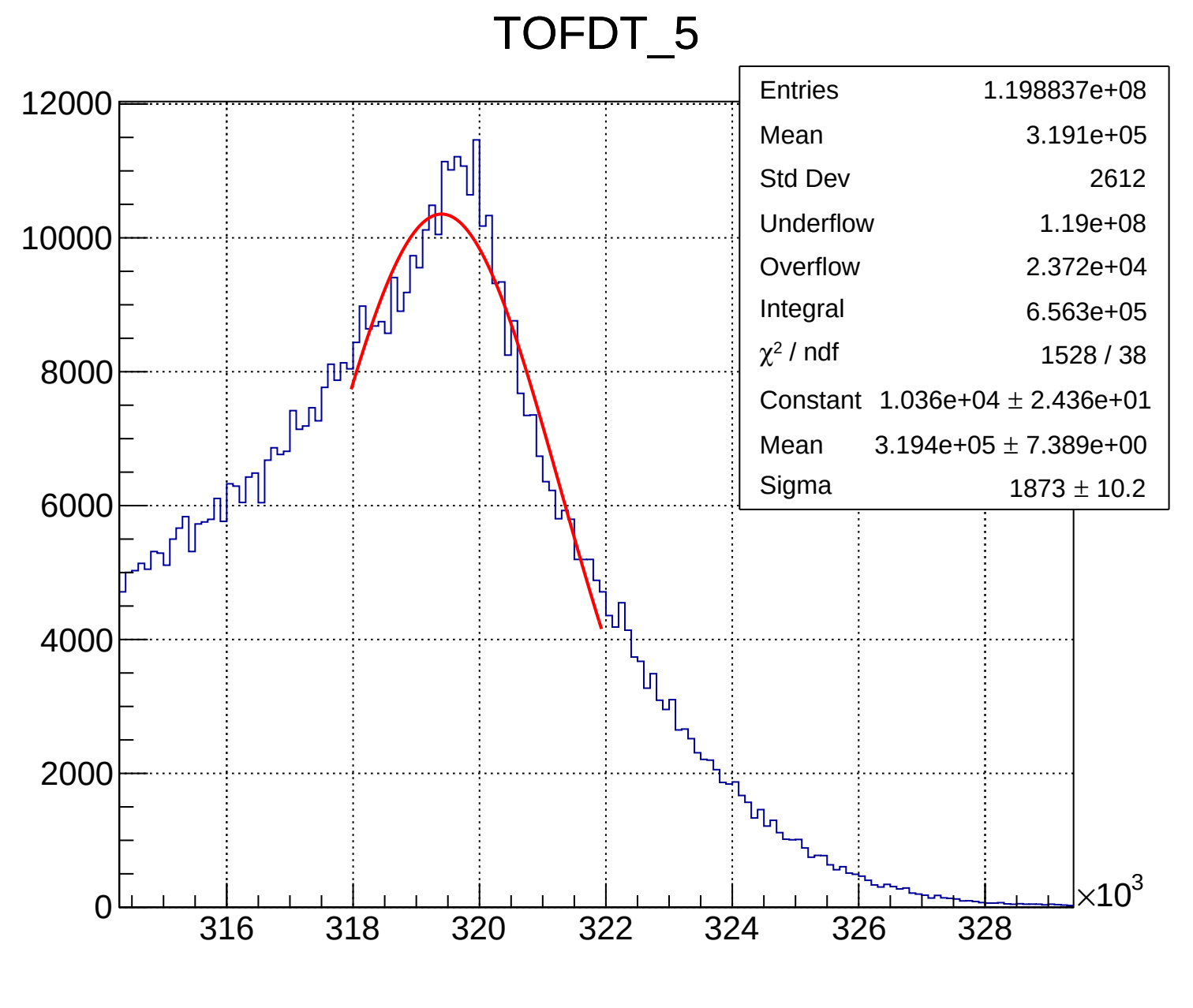

TOFUT_24
Entries 1.198837e+08
Mean 2.735e+05
Std Dev 3385
Underflow 1.196e+08
Overflow 6.024e+04
Integral 6.367e+04
χ² / ndf 60.26 / 38
Constant 820.6 ± 6.2
Mean 2.726e+05 ± 8.946e+01
Sigma 2929 ± 121.0
900
800
700
600
500
400
300
200
100
268
270
272
274
276
278
280
282
×10³

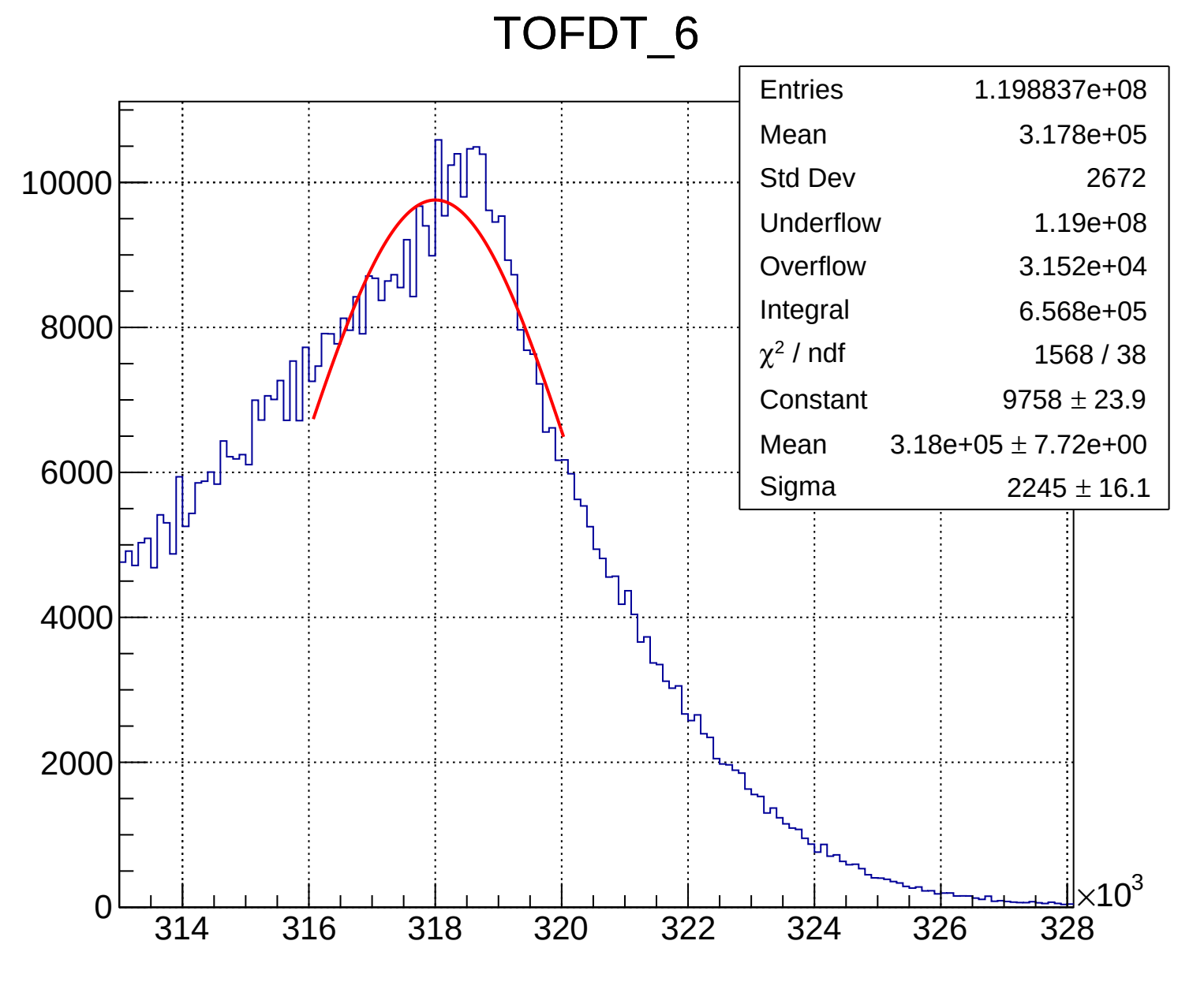

TOFDT_1
Entries 1.198837e+08
Mean 3.205e+05
Std Dev 2737
Underflow 1.198e+08
Overflow 1.318e+04
Integral 2.491e+04
χ² / ndf 76.24 / 38
Constant 416.9 ± 5.0
Mean 3.206e+05 ± 2.740e+01
Sigma 1731 ± 40.3
500
400
300
200
100
0
316
318
320
322
324
326
328
330
×10³

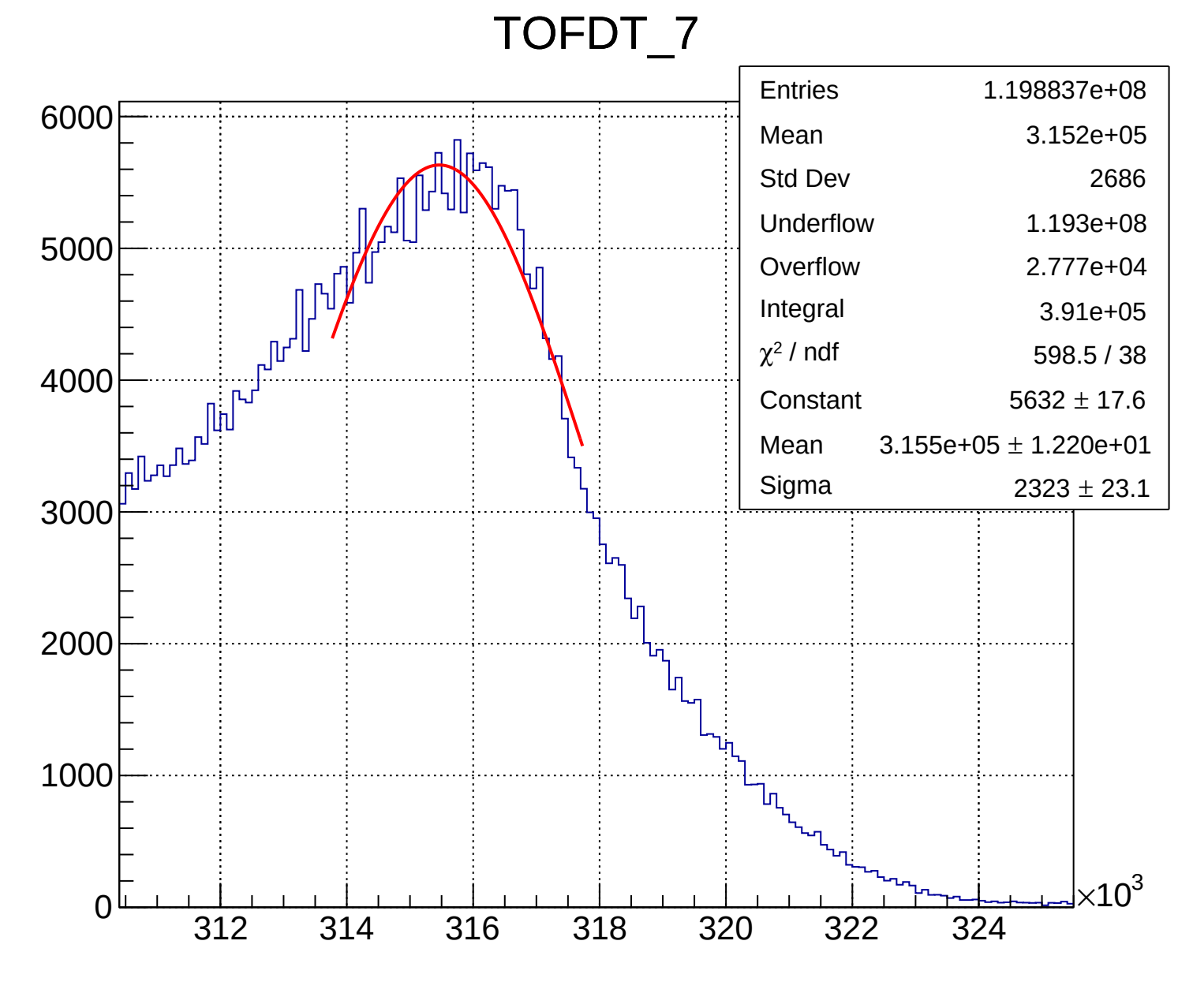

TOFDT_2
Entries 1.198837e+08
Mean 3.207e+05
Std Dev 2712
Underflow 1.198e+08
Overflow 1.375e+04
Integral 3.69e+04
χ² / ndf 94.69 / 38
Constant 600.5 ± 6.0
Mean 3.209e+05 ± 2.540e+01
Sigma 1799 ± 37.0
700
600
500
400
300
200
100
0
316
318
320
322
324
326
328
330
×10³

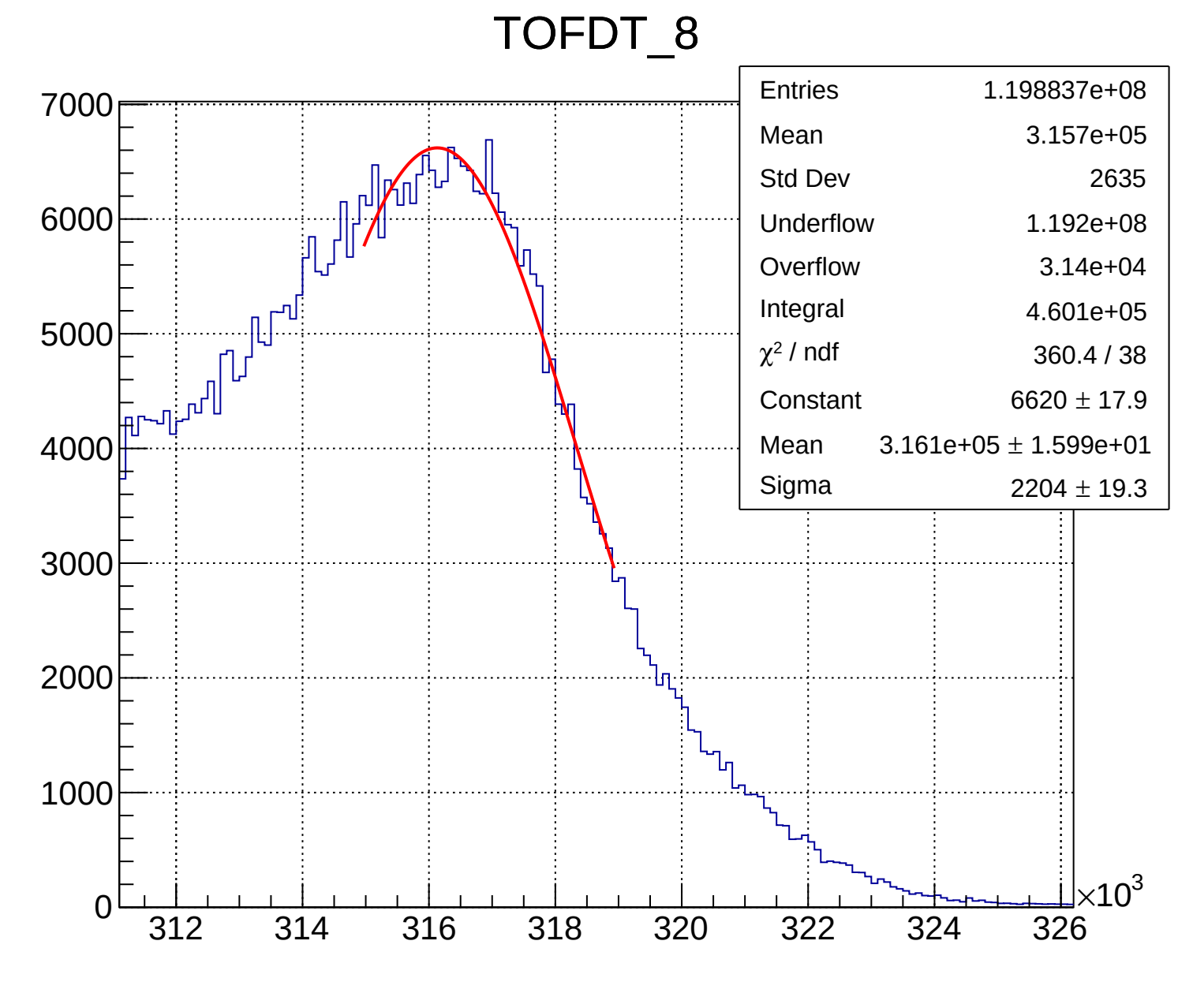

TOFDT_3
Entries 1.198837e+08
Mean 3.181e+05
Std Dev 2550
Underflow 1.194e+08
Overflow 1.678e+04
Integral 3.638e+05
χ² / ndf 1336 / 38
Constant 5890 ± 19.0
Mean 3.184e+05 ± 7.852e+00
Sigma 1793 ± 12.0
7000
6000
5000
4000
3000
2000
1000
0
314
316
318
320
322
324
326
328
×10³

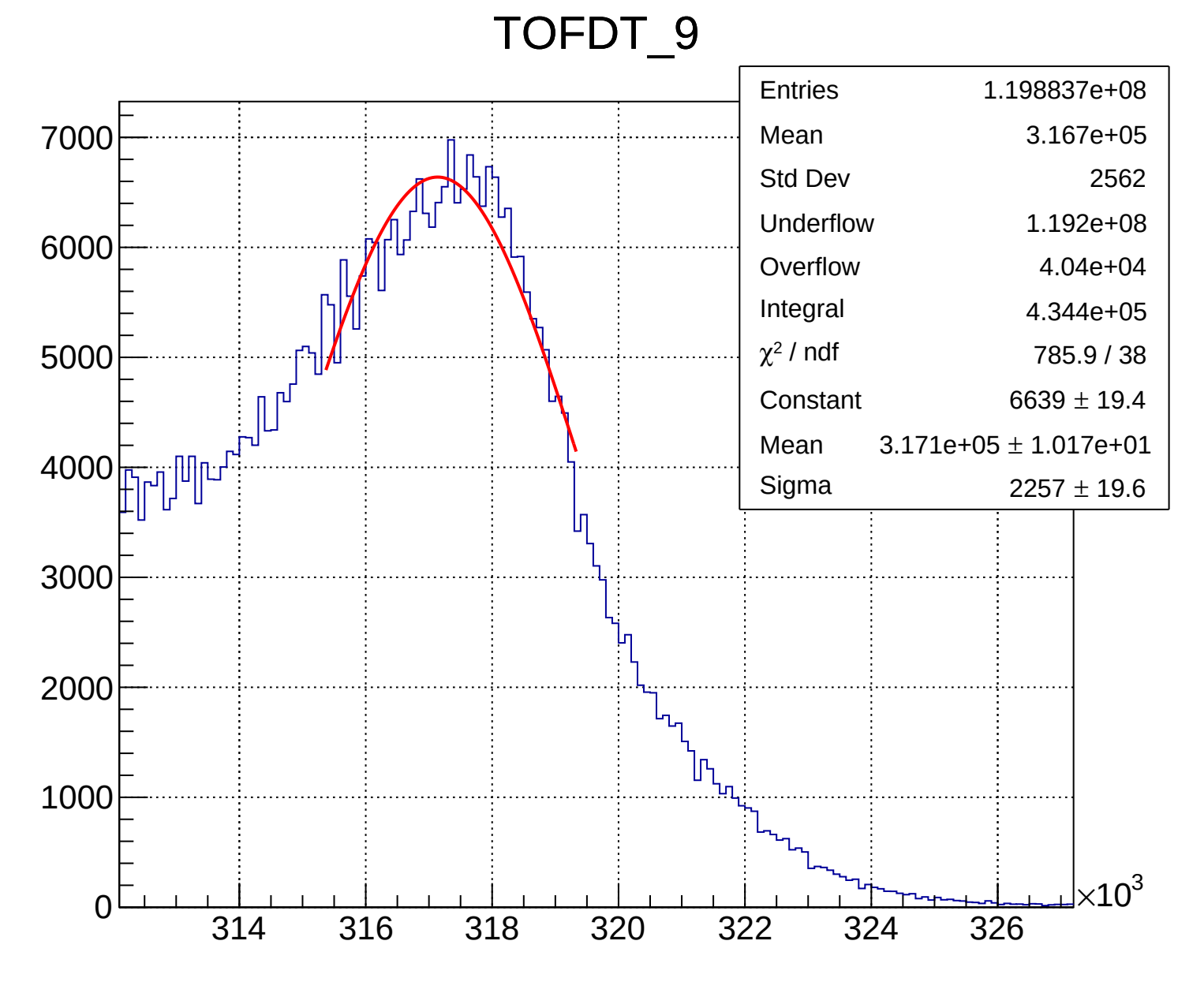

TOFDT_4
Entries 1.198837e+08
Mean 3.17e+05
Std Dev 2568
Underflow 1.192e+08
Overflow 1.918e+04
Integral 5.176e+05
χ² / ndf 1605 / 38
Constant 8351 ± 22.5
Mean 3.174e+05 ± 6.541e+00
Sigma 1776 ± 9.8
10000
8000
6000
4000
2000
0
314
316
318
320
322
324
326
×10³

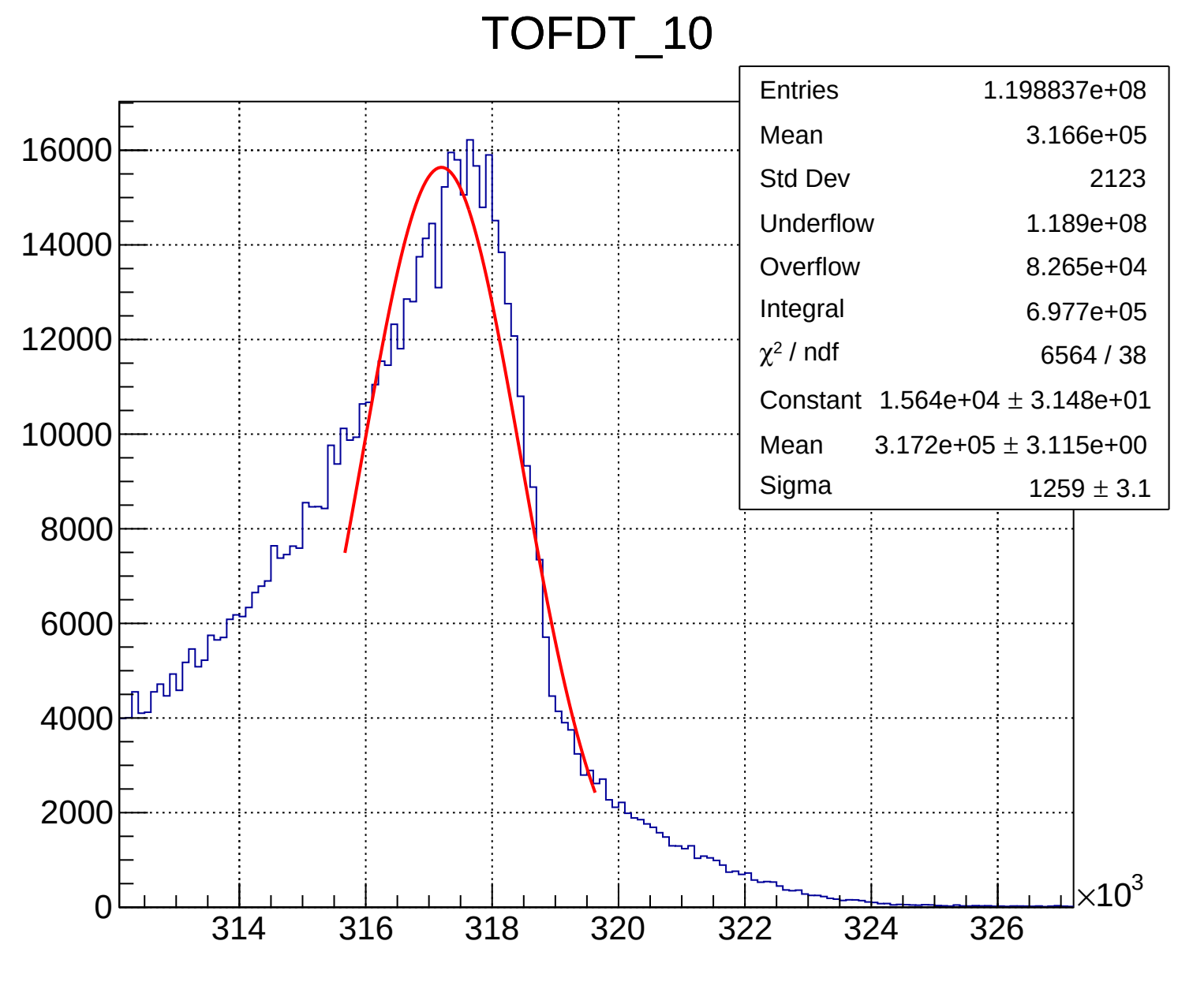

TOFDT_5
Entries 1.198837e+08
Mean 3.191e+05
Std Dev 2612
Underflow 1.19e+08
Overflow 2.372e+04
Integral 6.563e+05
χ² / ndf 1528 / 38
Constant 1.036e+04 ± 2.436e+01
Mean 3.194e+05 ± 7.389e+00
Sigma 1873 ± 10.2
12000
10000
8000
6000
4000
2000
0
316
318
320
322
324
326
328
×10³

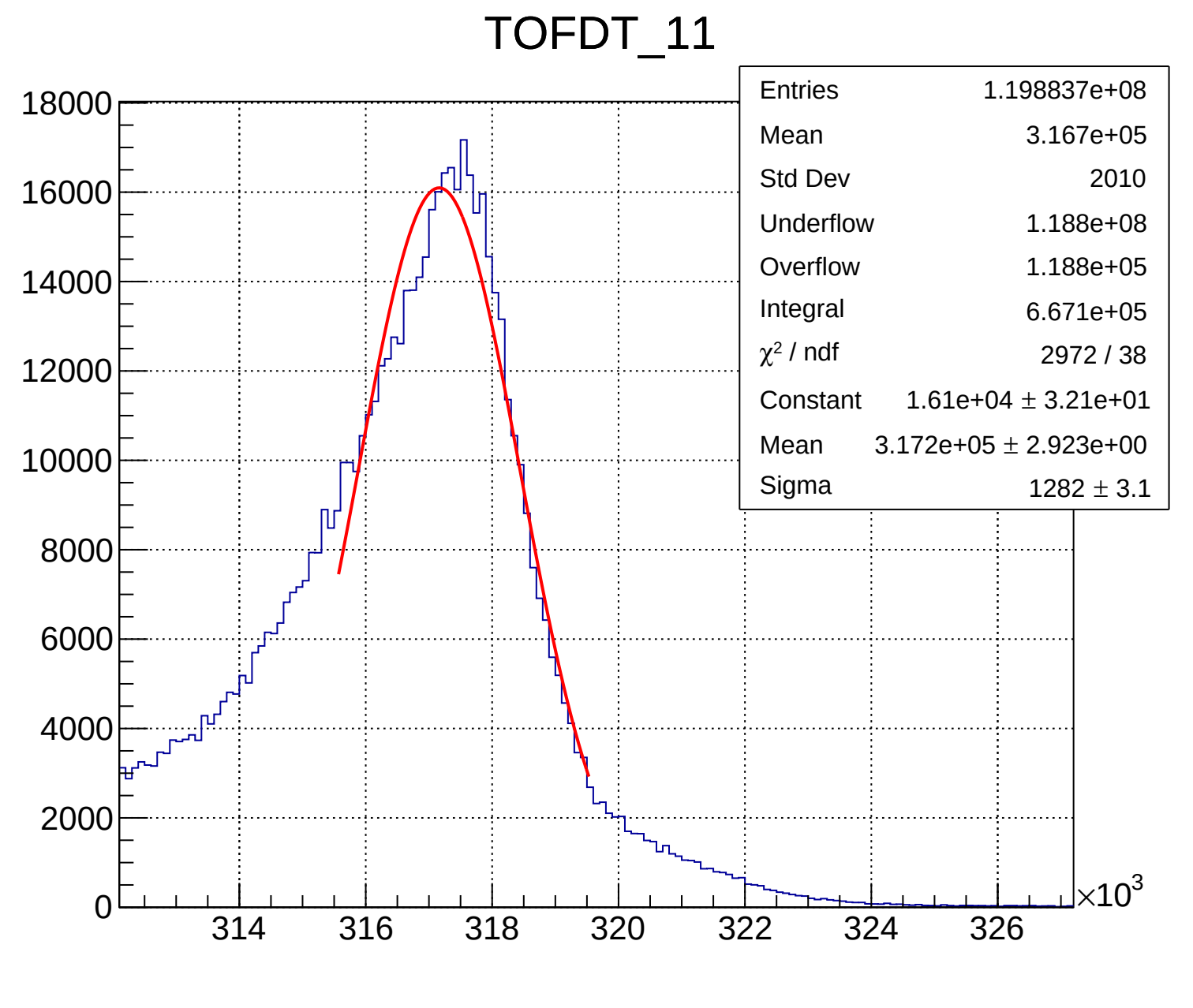

TOFDT_6
Entries 1.198837e+08
Mean 3.178e+05
Std Dev 2672
Underflow 1.19e+08
Overflow 3.152e+04
Integral 6.568e+05
χ² / ndf 1568 / 38
Constant 9758 ± 23.9
Mean 3.18e+05 ± 7.72e+00
Sigma 2245 ± 16.1
10000
8000
6000
4000
2000
0
314
316
318
320
322
324
326
328
×10³

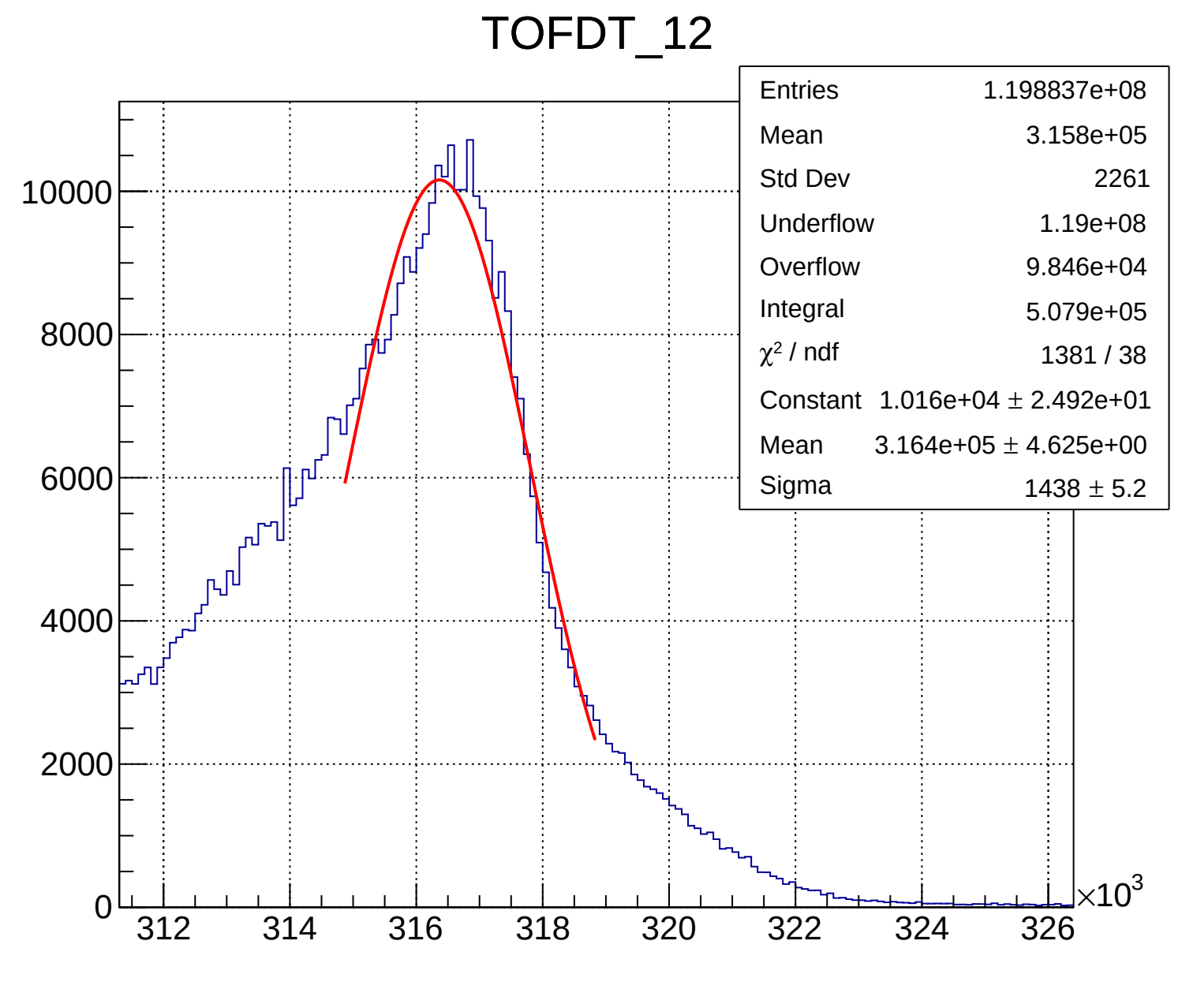

TOFDT_7
Entries 1.198837e+08
Mean 3.152e+05
Std Dev 2686
Underflow 1.193e+08
Overflow 2.777e+04
Integral 3.91e+05
χ² / ndf 598.5 / 38
Constant 5632 ± 17.6
Mean 3.155e+05 ± 1.220e+01
Sigma 2323 ± 23.1
6000
5000
4000
3000
2000
1000
0
312
314
316
318
320
322
324
×10³

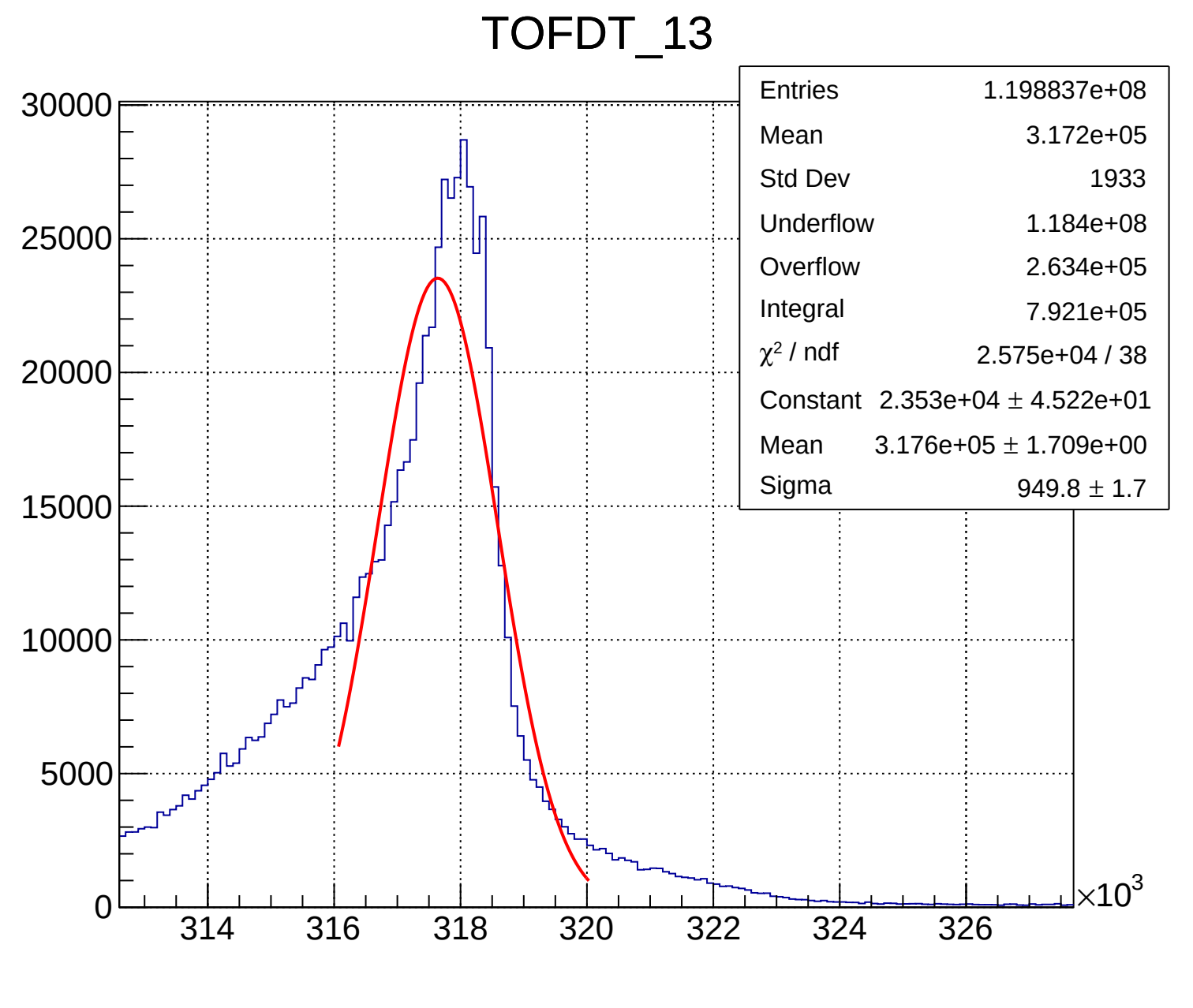

TOFDT_8
Entries 1.198837e+08
Mean 3.157e+05
Std Dev 2635
Underflow 1.192e+08
Overflow 3.14e+04
Integral 4.601e+05
χ² / ndf 360.4 / 38
Constant 6620 ± 17.9
Mean 3.161e+05 ± 1.599e+01
Sigma 2204 ± 19.3
7000
6000
5000
4000
3000
2000
1000
0
312
314
316
318
320
322
324
326
×10³

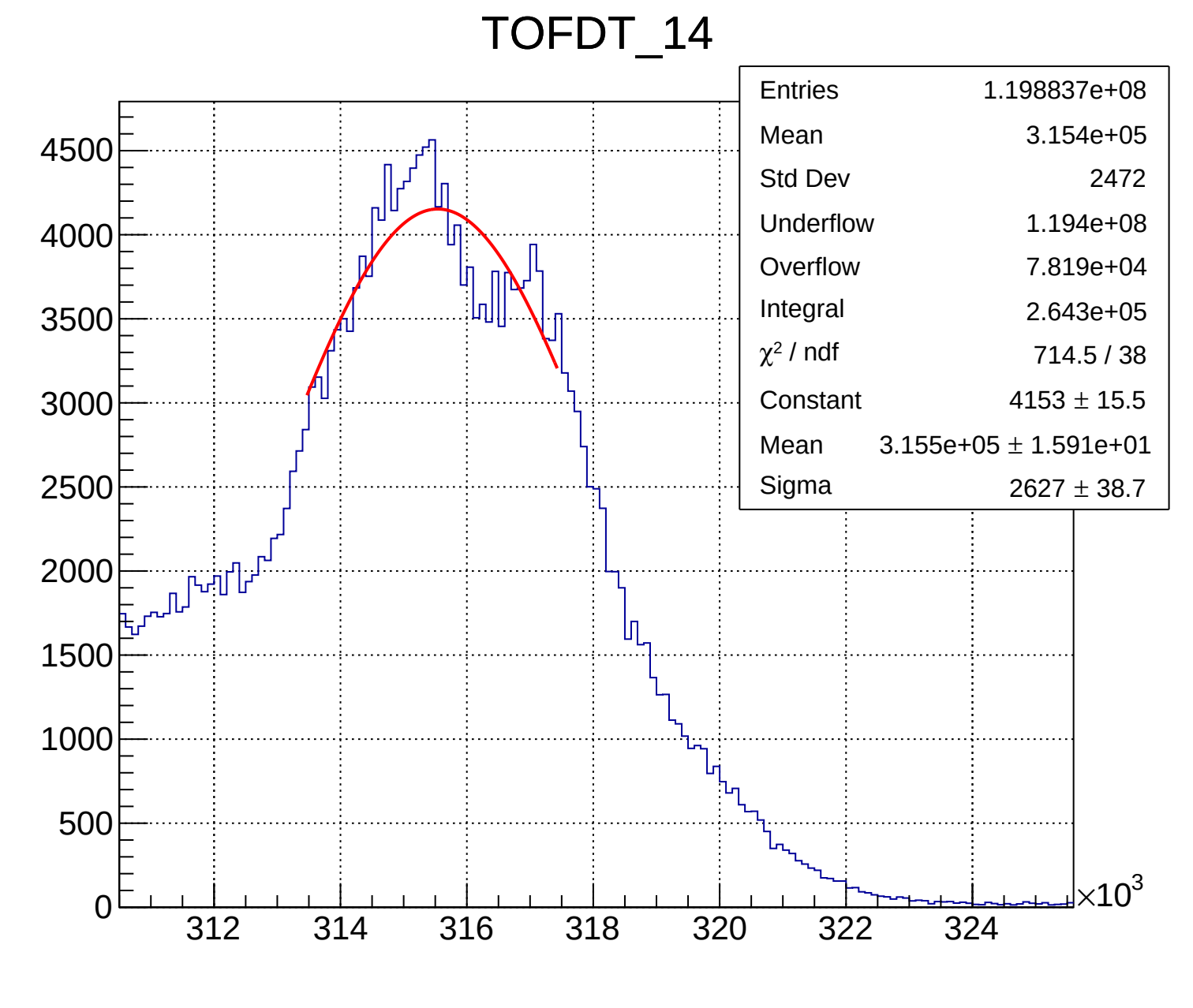

TOFDT_9
Entries 1.198837e+08
Mean 3.167e+05
Std Dev 2562
Underflow 1.192e+08
Overflow 4.04e+04
Integral 4.344e+05
χ² / ndf 785.9 / 38
Constant 6639 ± 19.4
Mean 3.171e+05 ± 1.017e+01
Sigma 2257 ± 19.6
7000
6000
5000
4000
3000
2000
1000
0
314
316
318
320
322
324
326
×10³

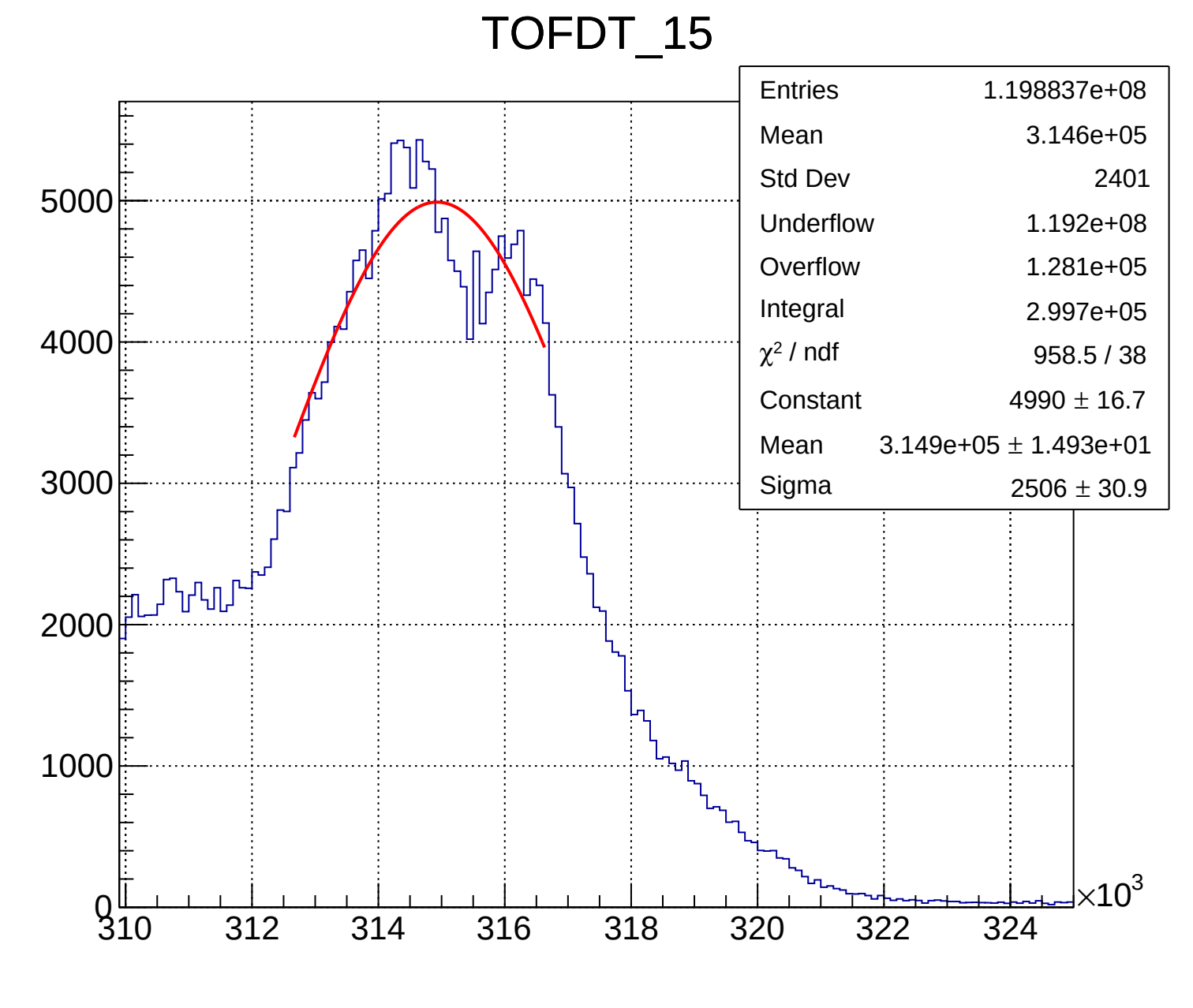

TOFDT_10
Entries 1.198837e+08
Mean 3.166e+05
Std Dev 2123
Underflow 1.189e+08
Overflow 8.265e+04
Integral 6.977e+05
χ² / ndf 6564 / 38
Constant 1.564e+04 ± 3.148e+01
Mean 3.172e+05 ± 3.115e+00
Sigma 1259 ± 3.1
16000
14000
12000
10000
8000
6000
4000
2000
0
314
316
318
320
322
324
326
×10³

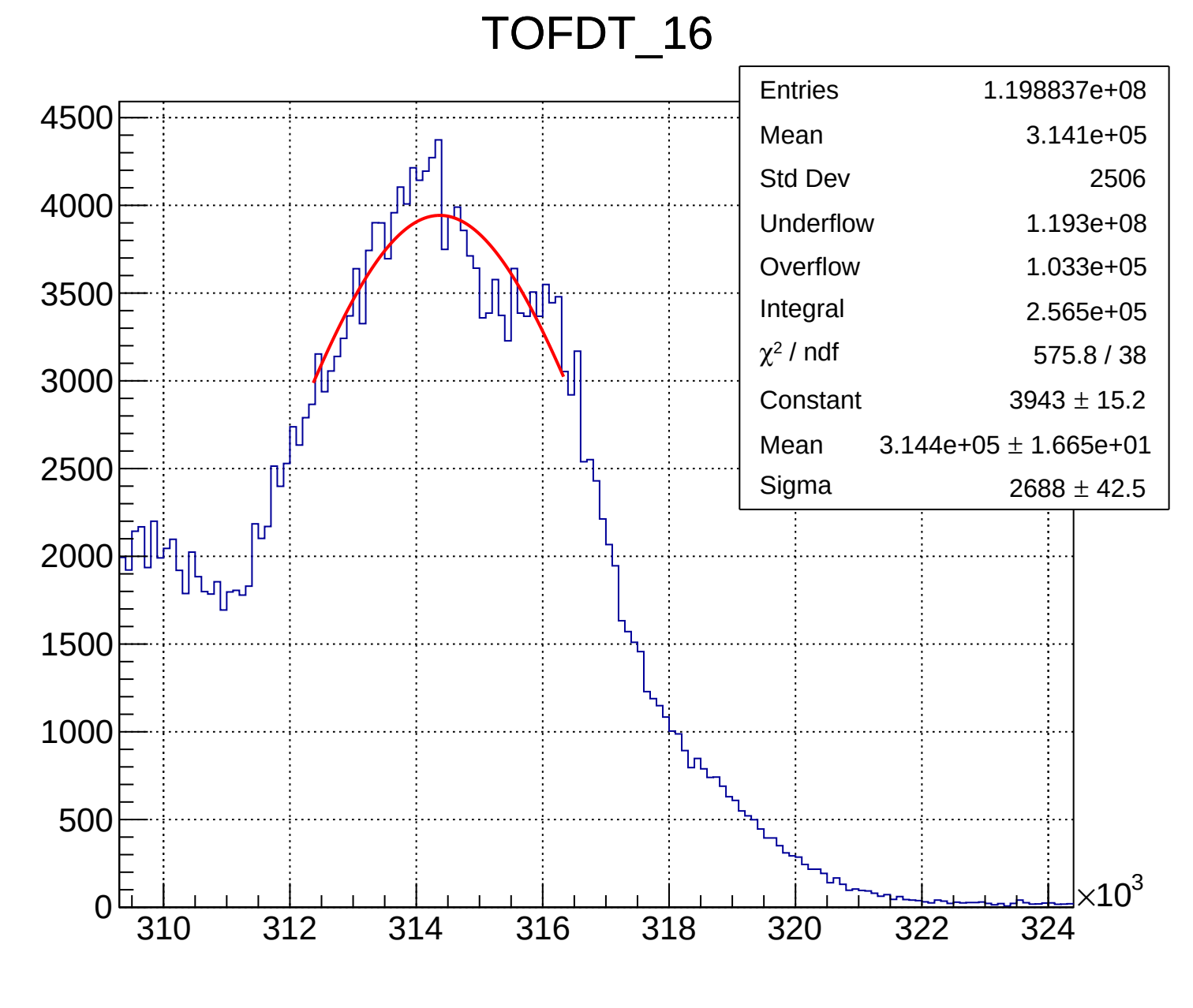

TOFDT_11
Entries 1.198837e+08
Mean 3.167e+05
Std Dev 2010
Underflow 1.188e+08
Overflow 1.188e+05
Integral 6.671e+05
χ² / ndf 2972 / 38
Constant 1.61e+04 ± 3.21e+01
Mean 3.172e+05 ± 2.923e+00
Sigma 1282 ± 3.1
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
314
316
318
320
322
324
326
×10³

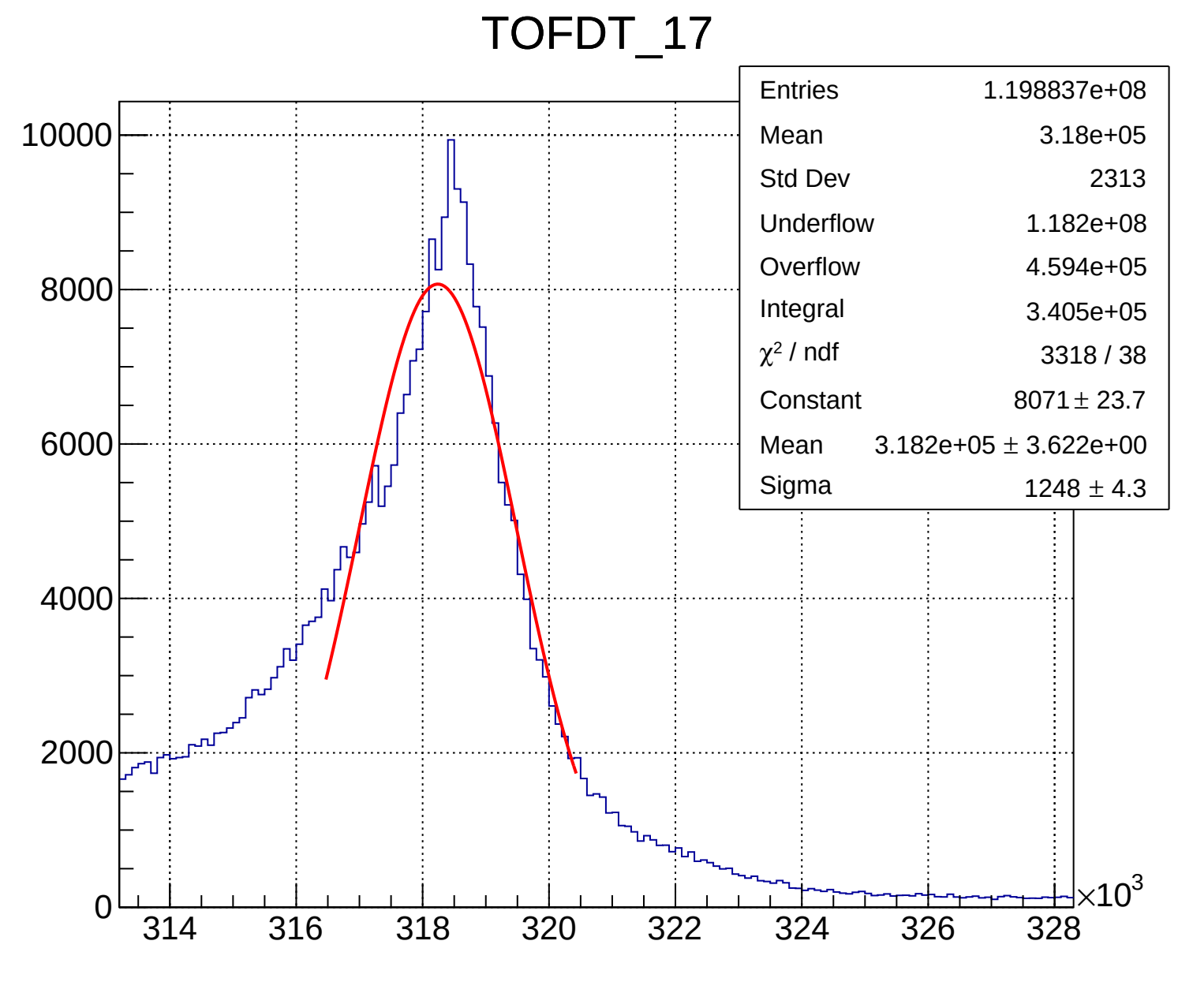

TOFDT_12
Entries 1.198837e+08
Mean 3.158e+05
Std Dev 2261
Underflow 1.19e+08
Overflow 9.846e+04
Integral 5.079e+05
χ² / ndf 1381 / 38
Constant 1.016e+04 ± 2.492e+01
Mean 3.164e+05 ± 4.625e+00
Sigma 1438 ± 5.2
10000
8000
6000
4000
2000
0
312
314
316
318
320
322
324
326
×10³

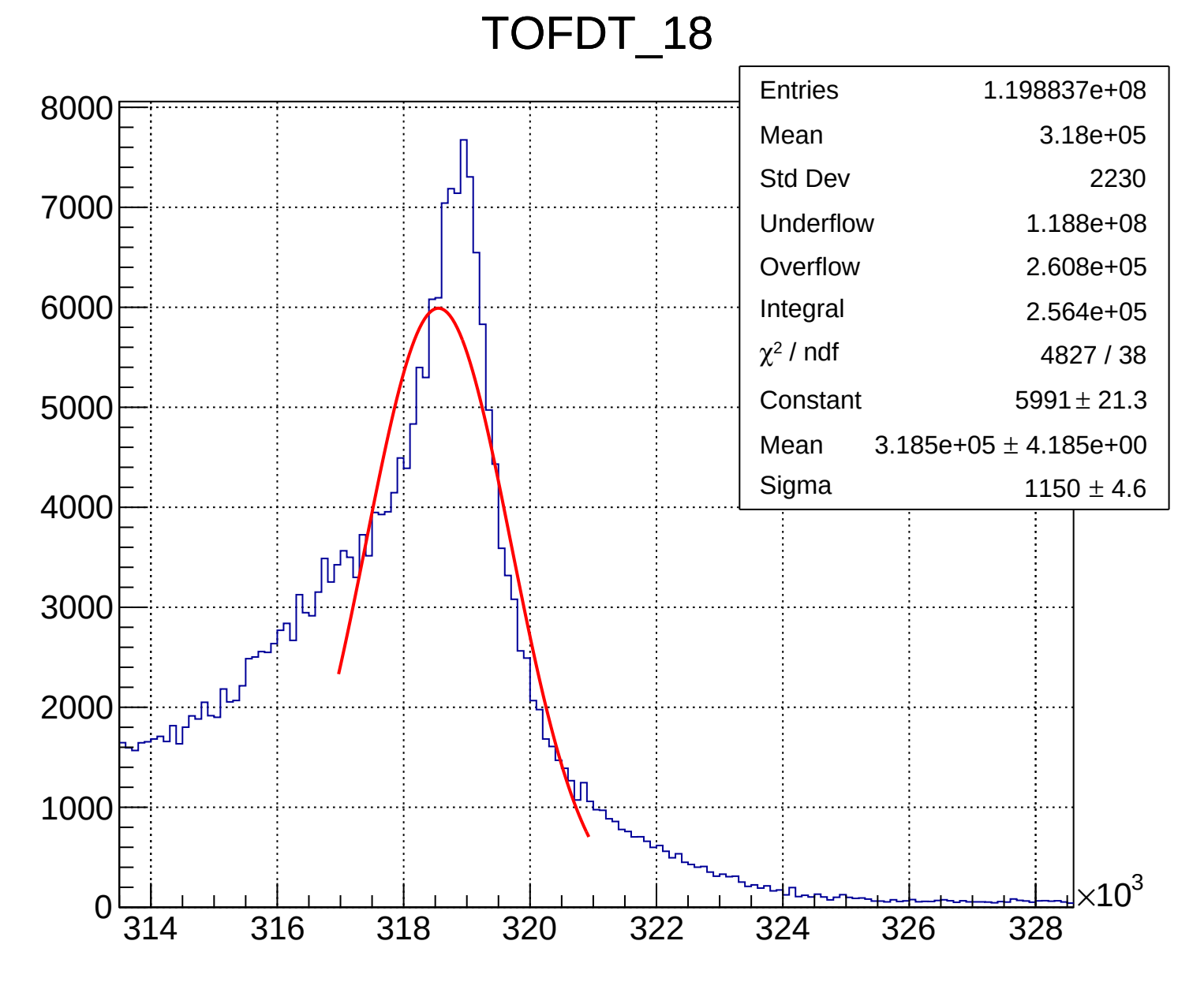

TOFDT_13
Entries 1.198837e+08
Mean 3.172e+05
Std Dev 1933
Underflow 1.184e+08
Overflow 2.634e+05
Integral 7.921e+05
χ² / ndf 2.575e+04 / 38
Constant 2.353e+04 ± 4.522e+01
Mean 3.176e+05 ± 1.709e+00
Sigma 949.8 ± 1.7
30000
25000
20000
15000
10000
5000
0
314
316
318
320
322
324
326
×10³

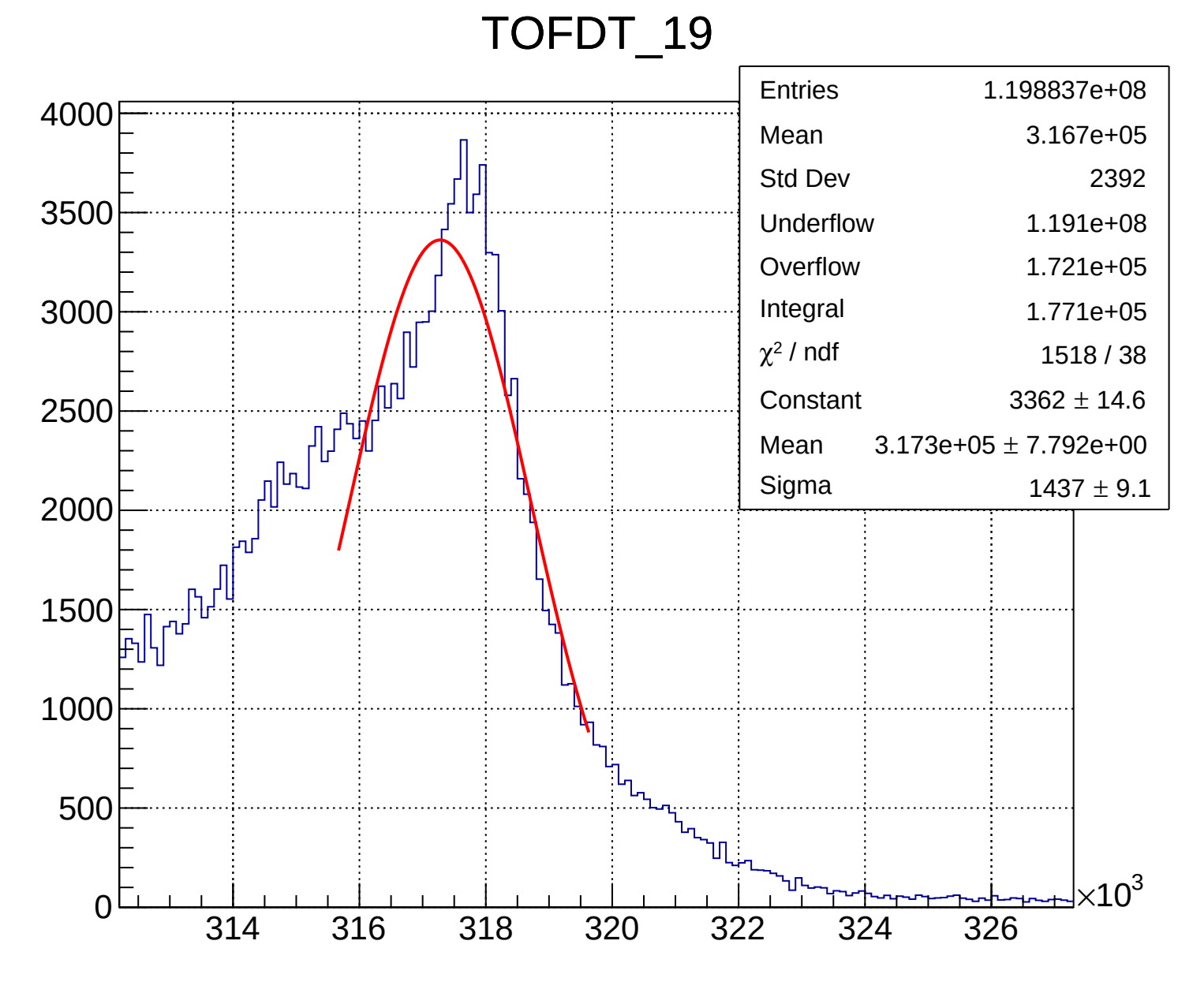

TOFDT_14
Entries 1.198837e+08
Mean 3.154e+05
Std Dev 2472
Underflow 1.194e+08
Overflow 7.819e+04
Integral 2.643e+05
χ² / ndf 714.5 / 38
Constant 4153 ± 15.5
Mean 3.155e+05 ± 1.591e+01
Sigma 2627 ± 38.7
4500
4000
3500
3000
2500
2000
1500
1000
500
0
312
314
316
318
320
322
324
×10³

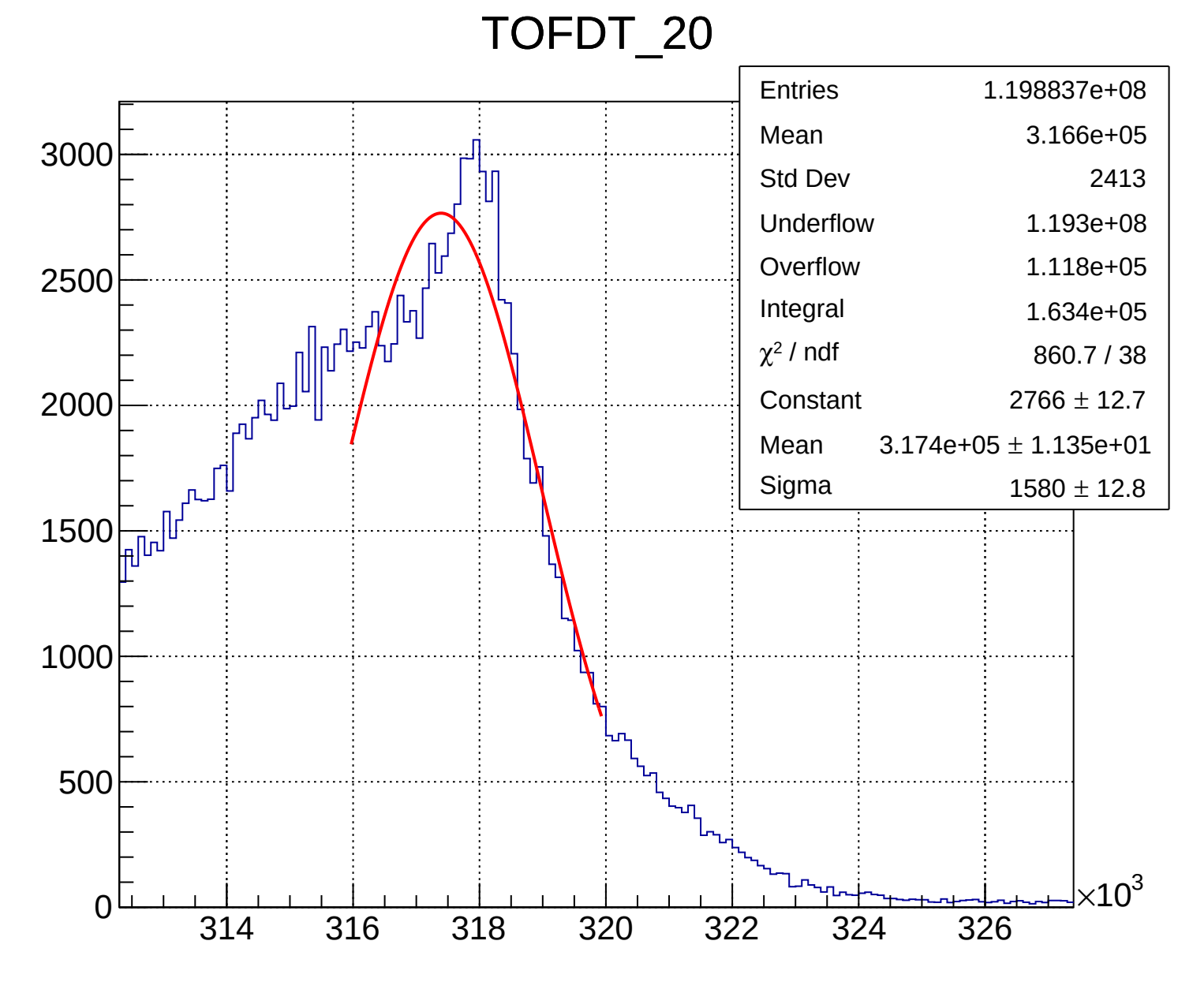

TOFDT_15
Entries 1.198837e+08
Mean 3.146e+05
Std Dev 2401
Underflow 1.192e+08
Overflow 1.281e+05
Integral 2.997e+05
χ² / ndf 958.5 / 38
Constant 4990 ± 16.7
Mean 3.149e+05 ± 1.493e+01
Sigma 2506 ± 30.9
5000
4000
3000
2000
1000
0
310
312
314
316
318
320
322
324
×10³

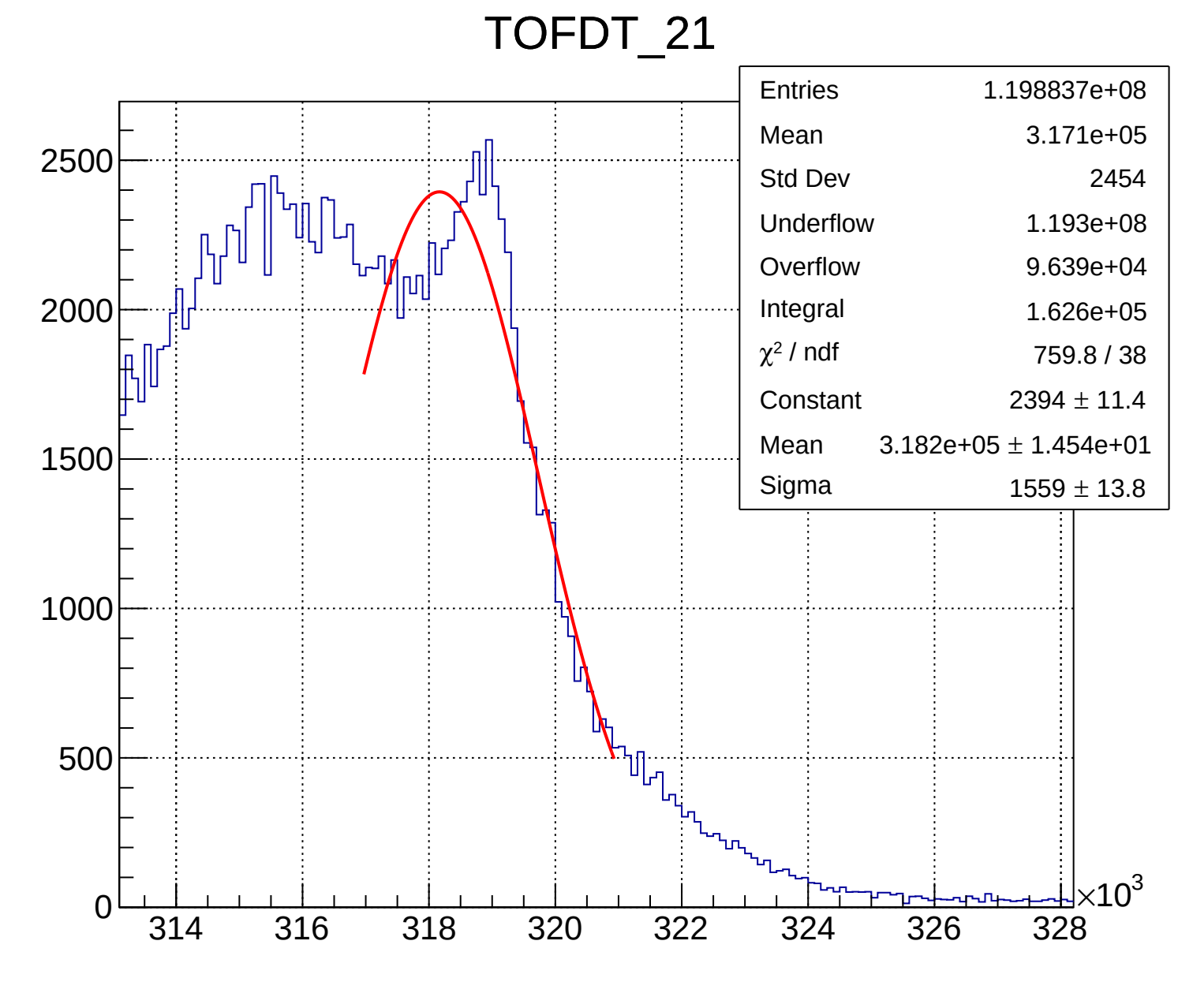

TOFDT_16
Entries 1.198837e+08
Mean 3.141e+05
Std Dev 2506
Underflow 1.193e+08
Overflow 1.033e+05
Integral 2.565e+05
χ² / ndf 575.8 / 38
Constant 3943 ± 15.2
Mean 3.144e+05 ± 1.665e+01
Sigma 2688 ± 42.5
4500
4000
3500
3000
2500
2000
1500
1000
500
0
310
312
314
316
318
320
322
324
×10³

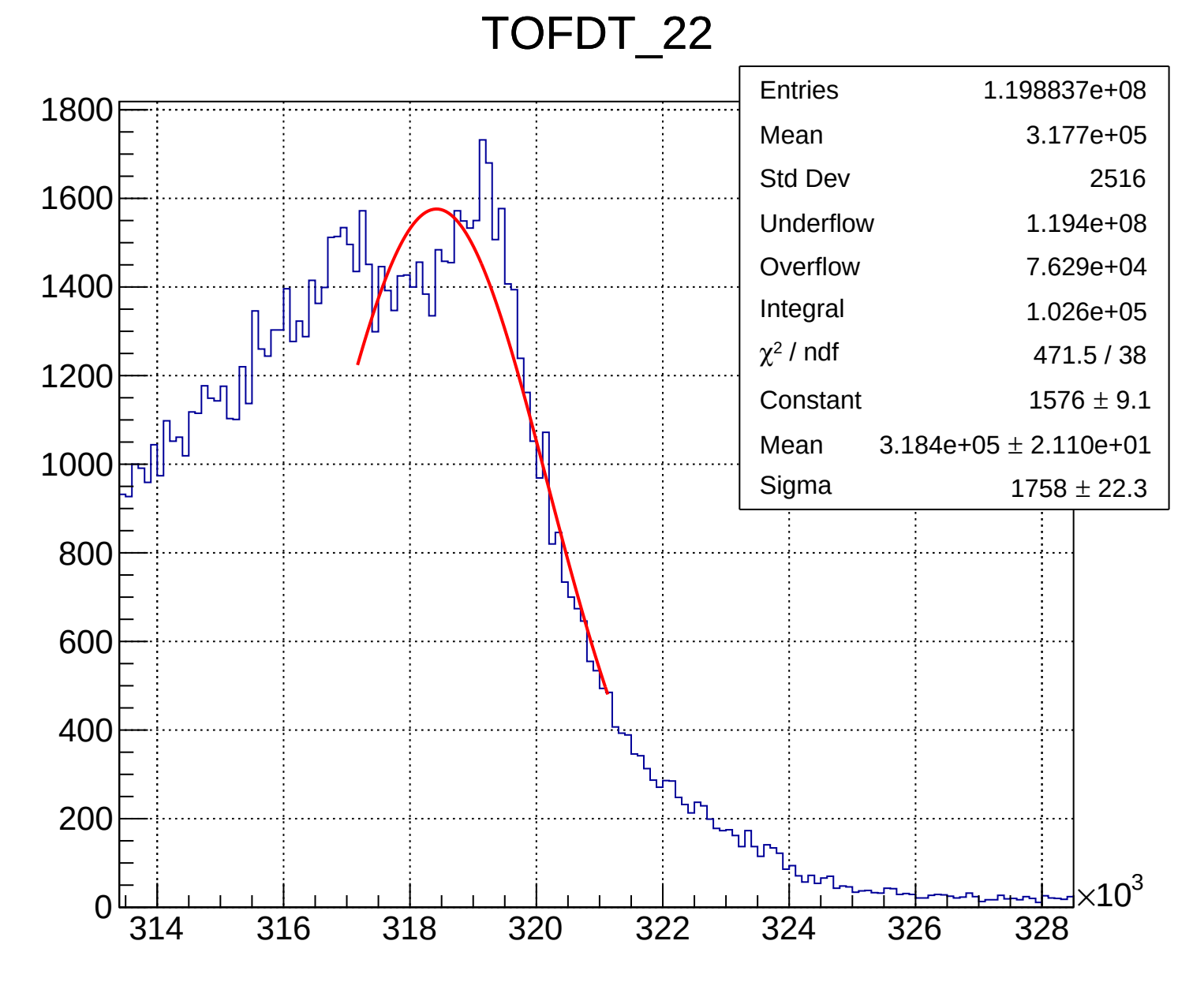

TOFDT_17
Entries 1.198837e+08
Mean 3.18e+05
Std Dev 2313
Underflow 1.182e+08
Overflow 4.594e+05
Integral 3.405e+05
χ² / ndf 3318 / 38
Constant 8071 ± 23.7
Mean 3.182e+05 ± 3.622e+00
Sigma 1248 ± 4.3
10000
8000
6000
4000
2000
0
314
316
318
320
322
324
326
328
×10³

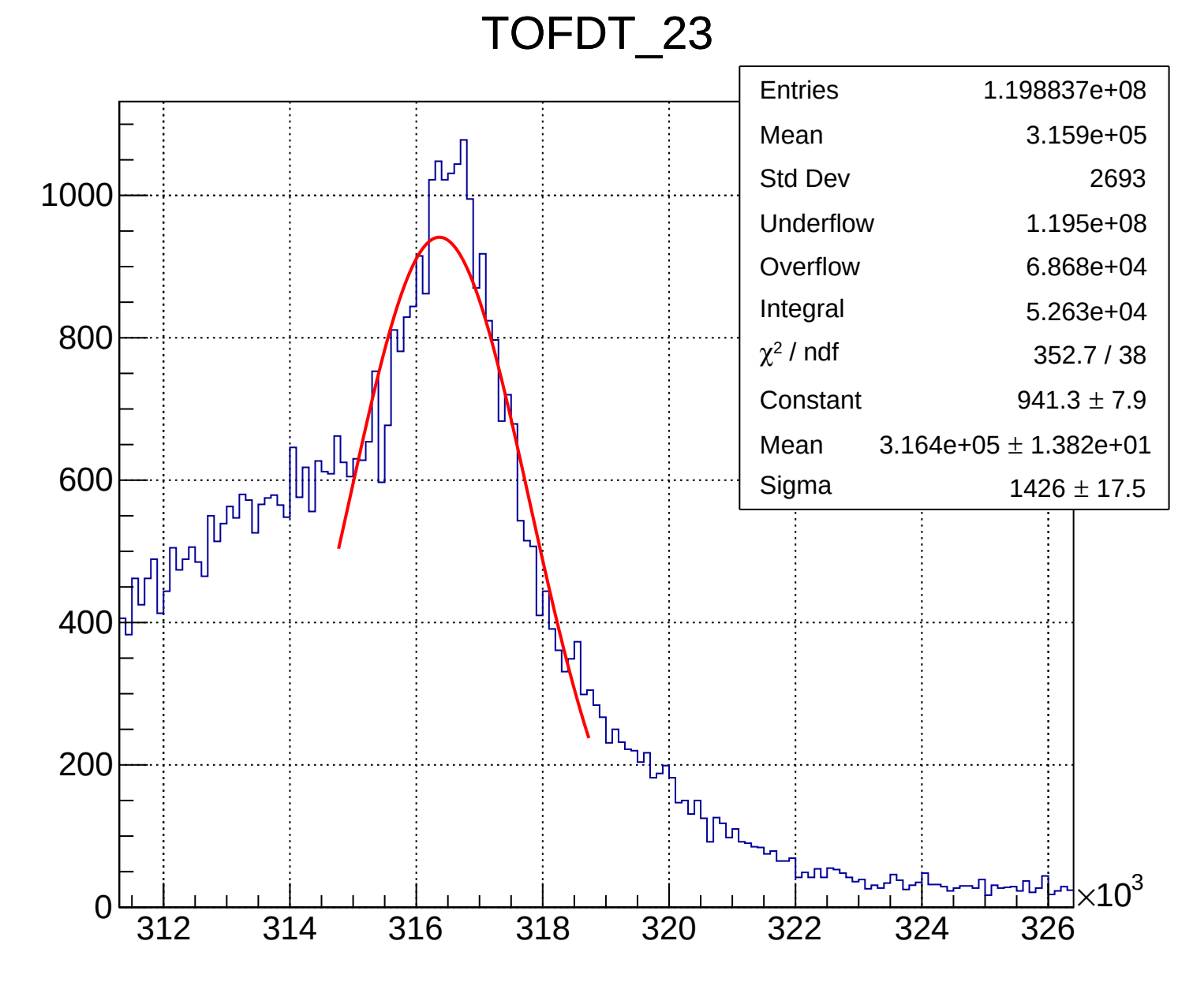

TOFDT_18
Entries 1.198837e+08
Mean 3.18e+05
Std Dev 2230
Underflow 1.188e+08
Overflow 2.608e+05
Integral 2.564e+05
χ² / ndf 4827 / 38
Constant 5991 ± 21.3
Mean 3.185e+05 ± 4.185e+00
Sigma 1150 ± 4.6
8000
7000
6000
5000
4000
3000
2000
1000
0
314
316
318
320
322
324
326
328
×10³

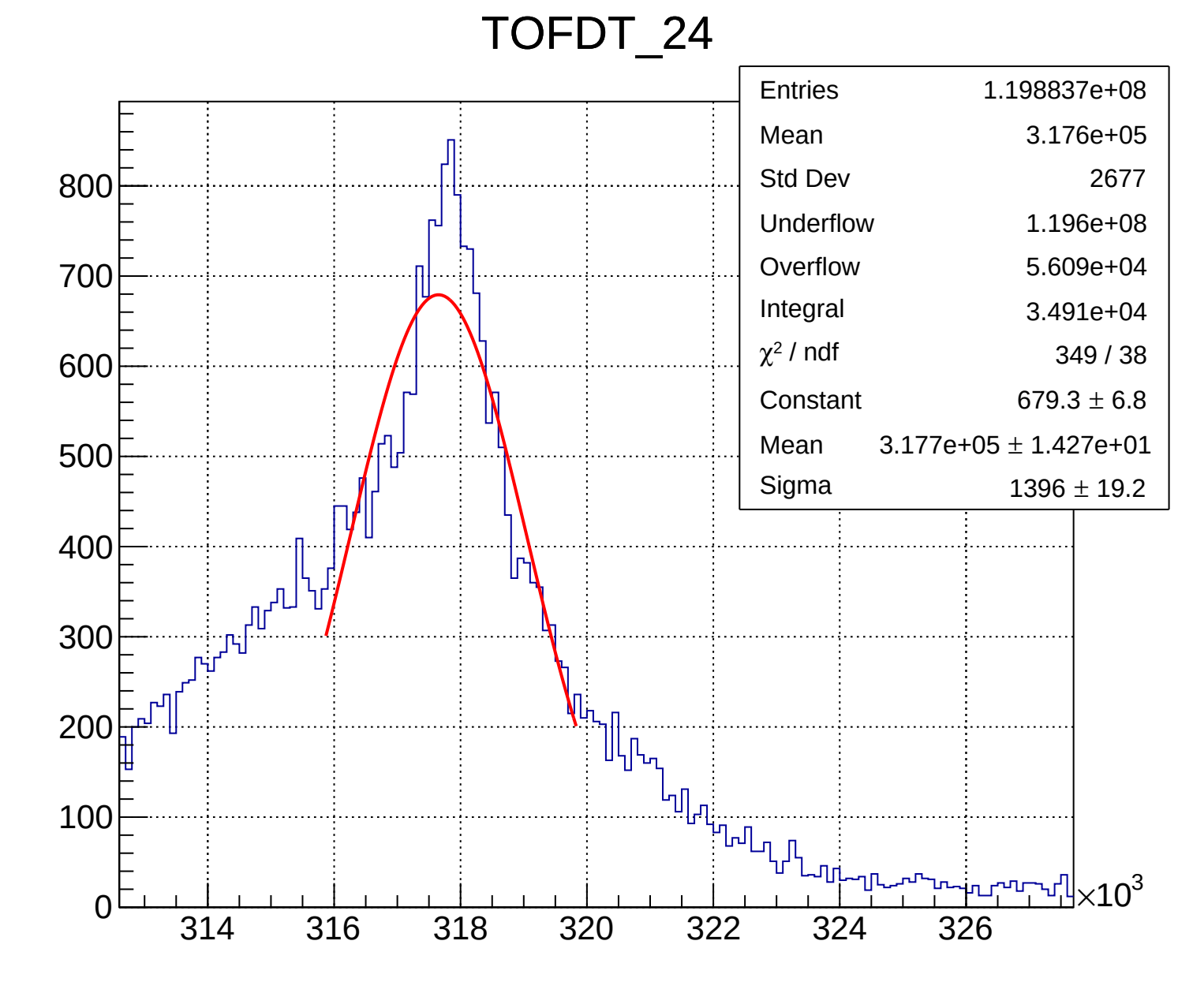

TOFDT_19
Entries 1.198837e+08
Mean 3.167e+05
Std Dev 2392
Underflow 1.191e+08
Overflow 1.721e+05
Integral 1.771e+05
χ² / ndf 1518 / 38
Constant 3362 ± 14.6
Mean 3.173e+05 ± 7.792e+00
Sigma 1437 ± 9.1
4000
3500
3000
2500
2000
1500
1000
500
0
314
316
318
320
322
324
326
×10³

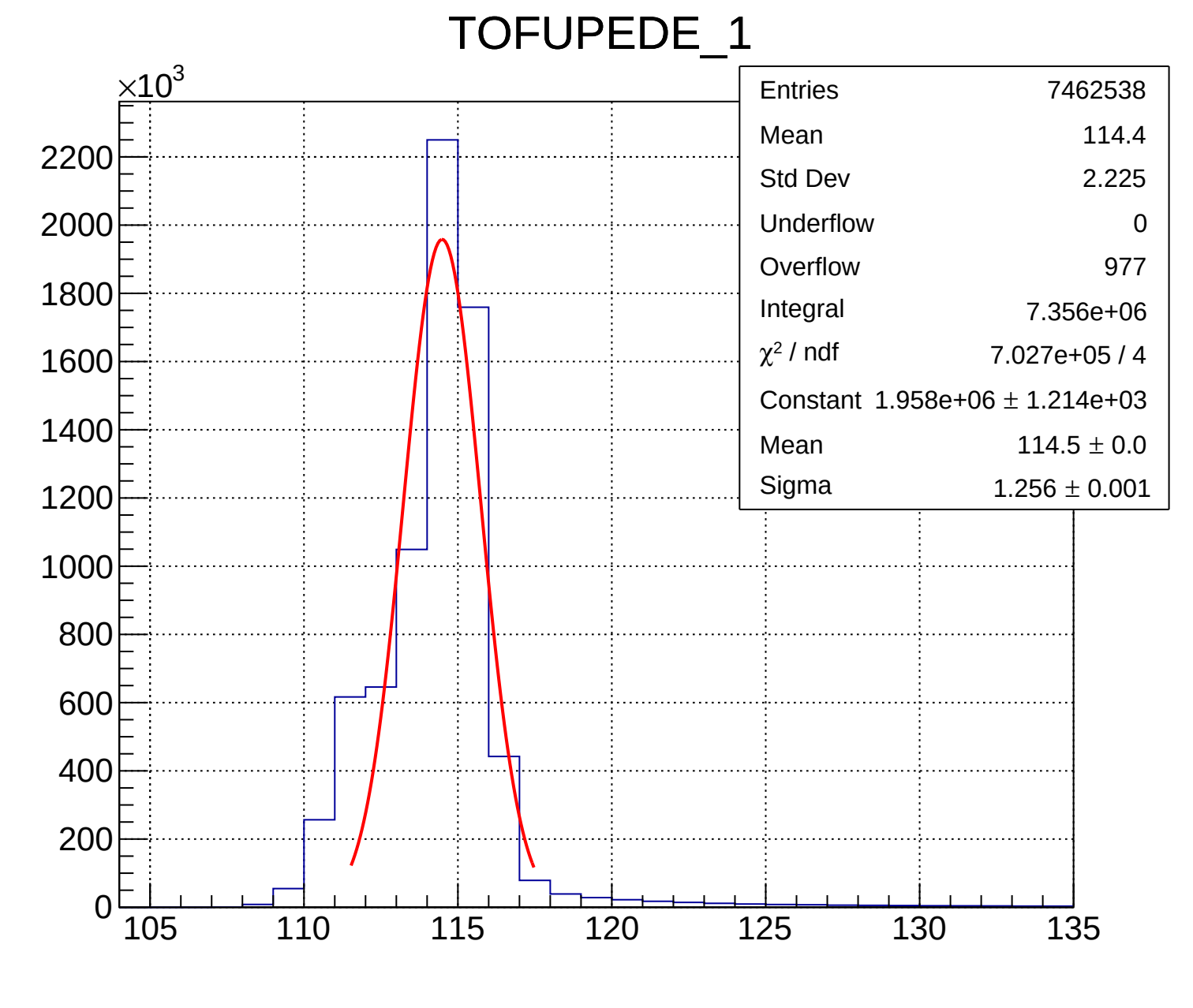

TOFDT_20
Entries 1.198837e+08
Mean 3.166e+05
Std Dev 2413
Underflow 1.193e+08
Overflow 1.118e+05
Integral 1.634e+05
χ² / ndf 860.7 / 38
Constant 2766 ± 12.7
Mean 3.174e+05 ± 1.135e+01
Sigma 1580 ± 12.8
3000
2500
2000
1500
1000
500
0
314
316
318
320
322
324
326
×10³

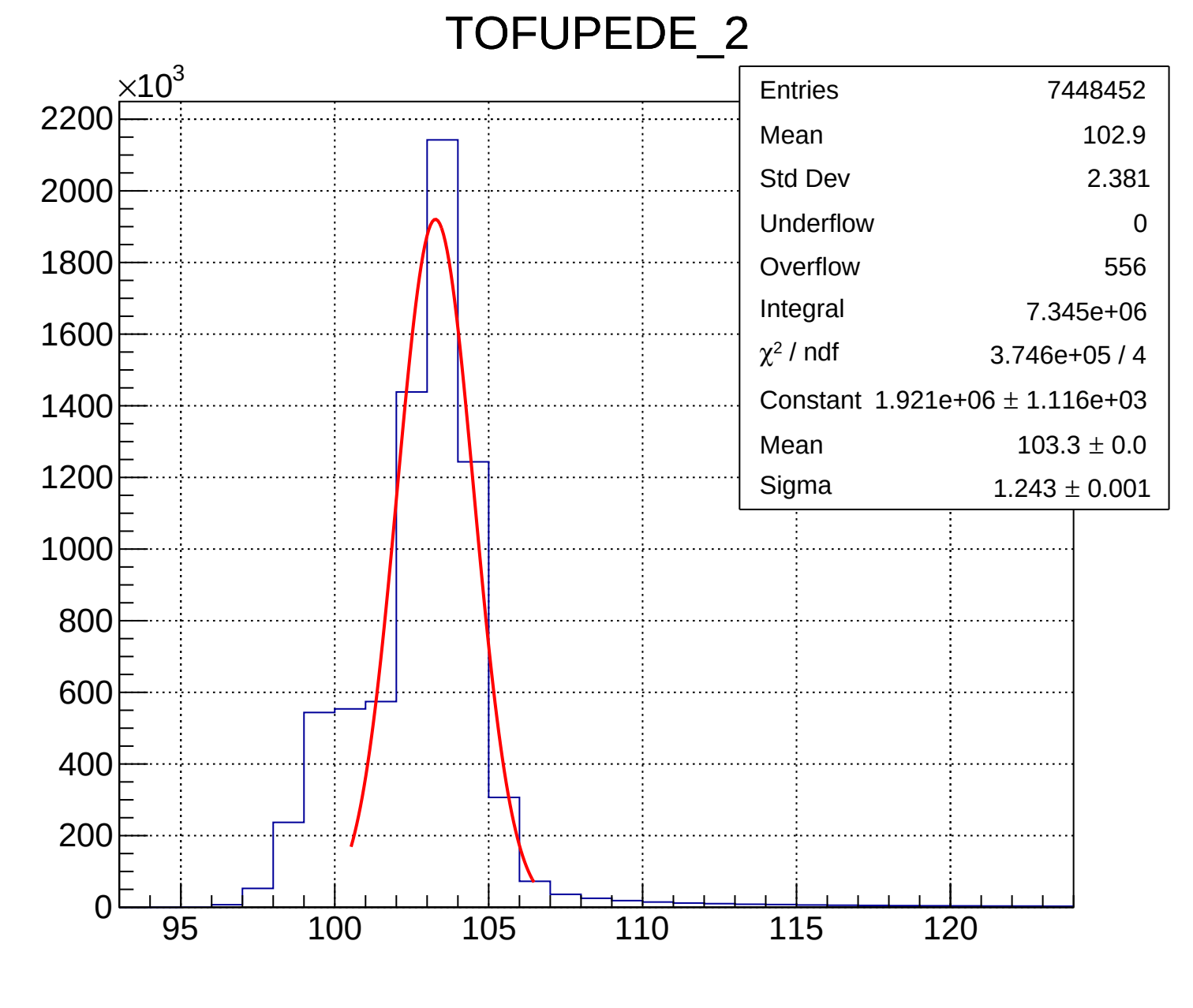

TOFDT_21
Entries 1.198837e+08
Mean 3.171e+05
Std Dev 2454
Underflow 1.193e+08
Overflow 9.639e+04
Integral 1.626e+05
χ² / ndf 759.8 / 38
Constant 2394 ± 11.4
Mean 3.182e+05 ± 1.454e+01
Sigma 1559 ± 13.8
2500
2000
1500
1000
500
0
314
316
318
320
322
324
326
328
×10³

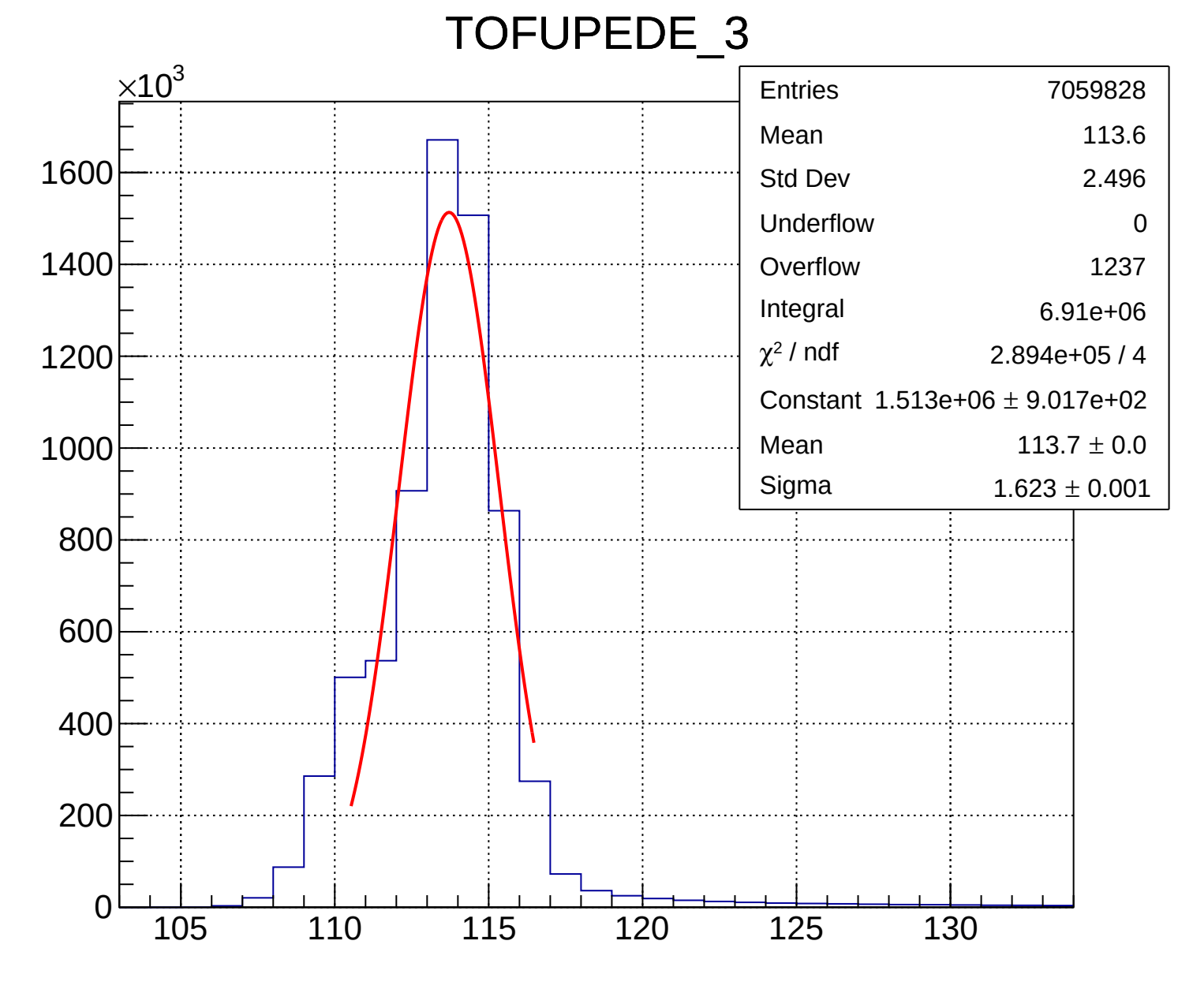

TOFDT_22
Entries 1.198837e+08
Mean 3.177e+05
Std Dev 2516
Underflow 1.194e+08
Overflow 7.629e+04
Integral 1.026e+05
χ² / ndf 471.5 / 38
Constant 1576 ± 9.1
Mean 3.184e+05 ± 2.110e+01
Sigma 1758 ± 22.3
1800
1600
1400
1200
1000
800
600
400
200
0
314
316
318
320
322
324
326
328
×10³

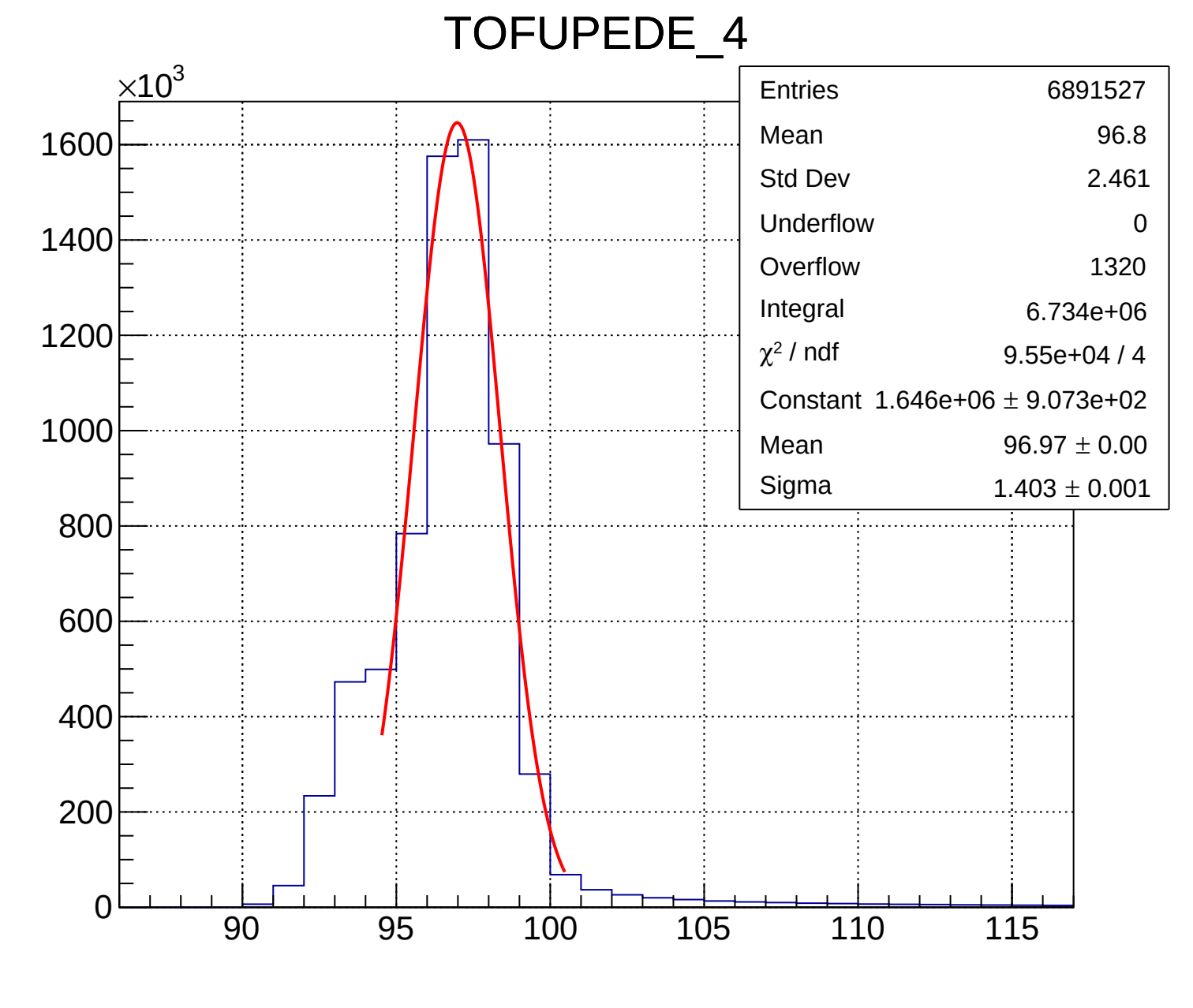

TOFDT_23
Entries 1.198837e+08
Mean 3.159e+05
Std Dev 2693
Underflow 1.195e+08
Overflow 6.868e+04
Integral 5.263e+04
χ² / ndf 352.7 / 38
Constant 941.3 ± 7.9
Mean 3.164e+05 ± 1.382e+01
Sigma 1426 ± 17.5
1000
800
600
400
200
0
312
314
316
318
320
322
324
326
×10³

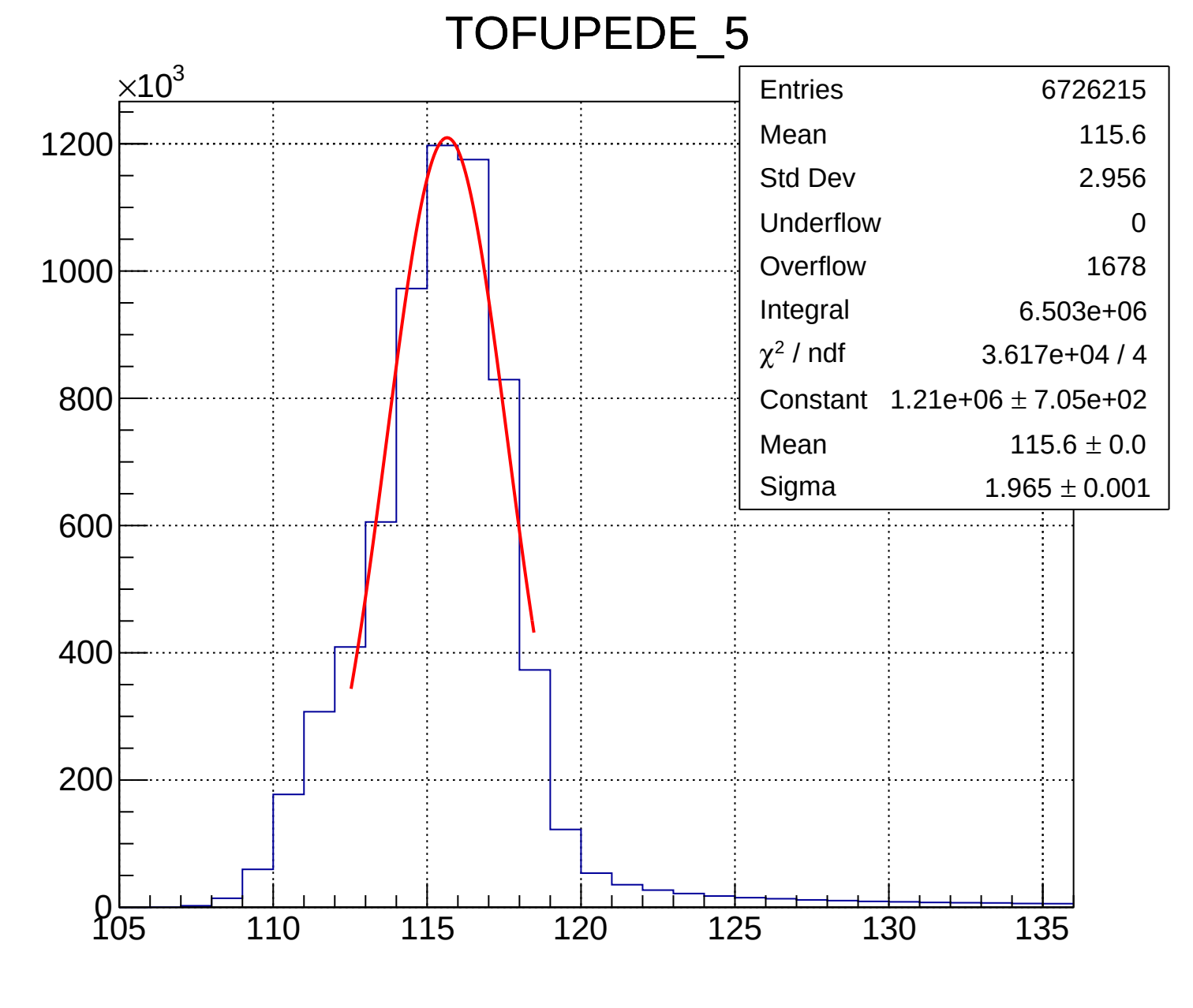

TOFDT_24
Entries 1.198837e+08
Mean 3.176e+05
Std Dev 2677
Underflow 1.196e+08
Overflow 5.609e+04
Integral 3.491e+04
χ² / ndf 349 / 38
Constant 679.3 ± 6.8
Mean 3.177e+05 ± 1.427e+01
Sigma 1396 ± 19.2
800
700
600
500
400
300
200
100
0
314
316
318
320
322
324
326
×10³

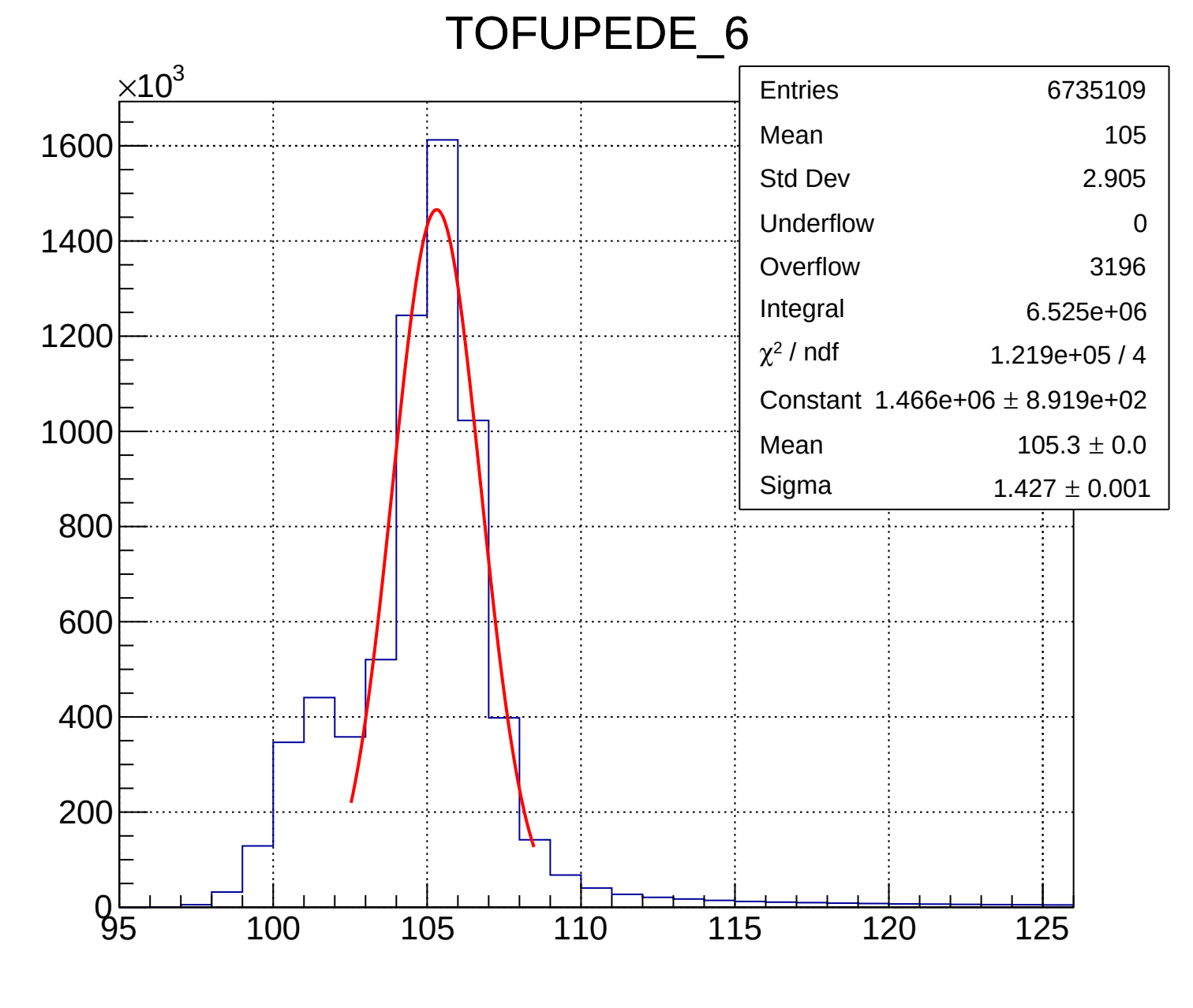

TOFUPEDE_1
×10^3
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
105
110
115
120
125
130
135
Entries 7462538
Mean 114.4
Std Dev 2.225
Underflow 0
Overflow 977
Integral 7.356e+06
χ² / ndf 7.027e+05 / 4
Constant 1.958e+06 ± 1.214e+03
Mean 114.5 ± 0.0
Sigma 1.256 ± 0.001

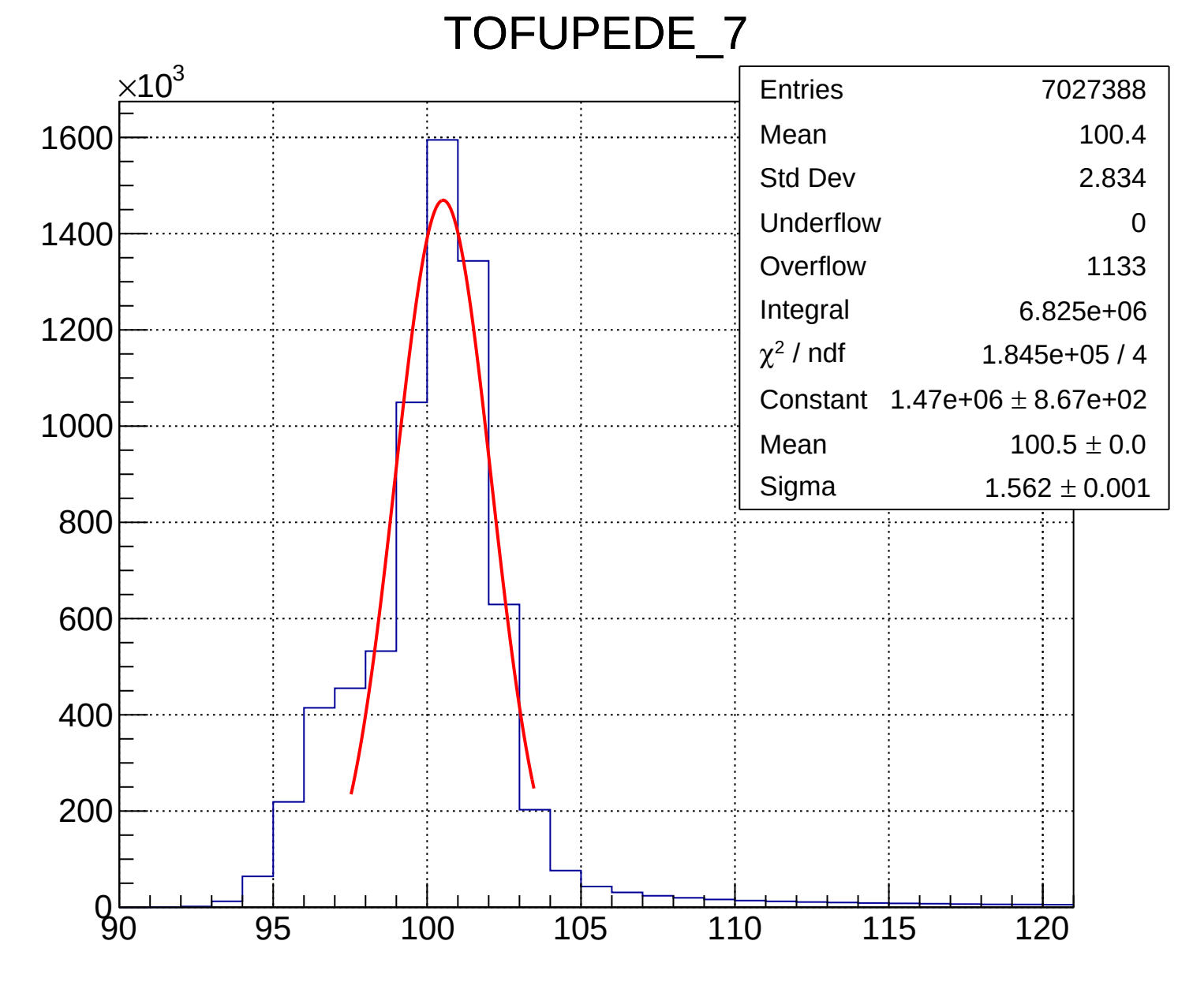

TOFUPEDE_2
×10^3
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
95
100
105
110
115
120
Entries 7448452
Mean 102.9
Std Dev 2.381
Underflow 0
Overflow 556
Integral 7.345e+06
χ² / ndf 3.746e+05 / 4
Constant 1.921e+06 ± 1.116e+03
Mean 103.3 ± 0.0
Sigma 1.243 ± 0.001

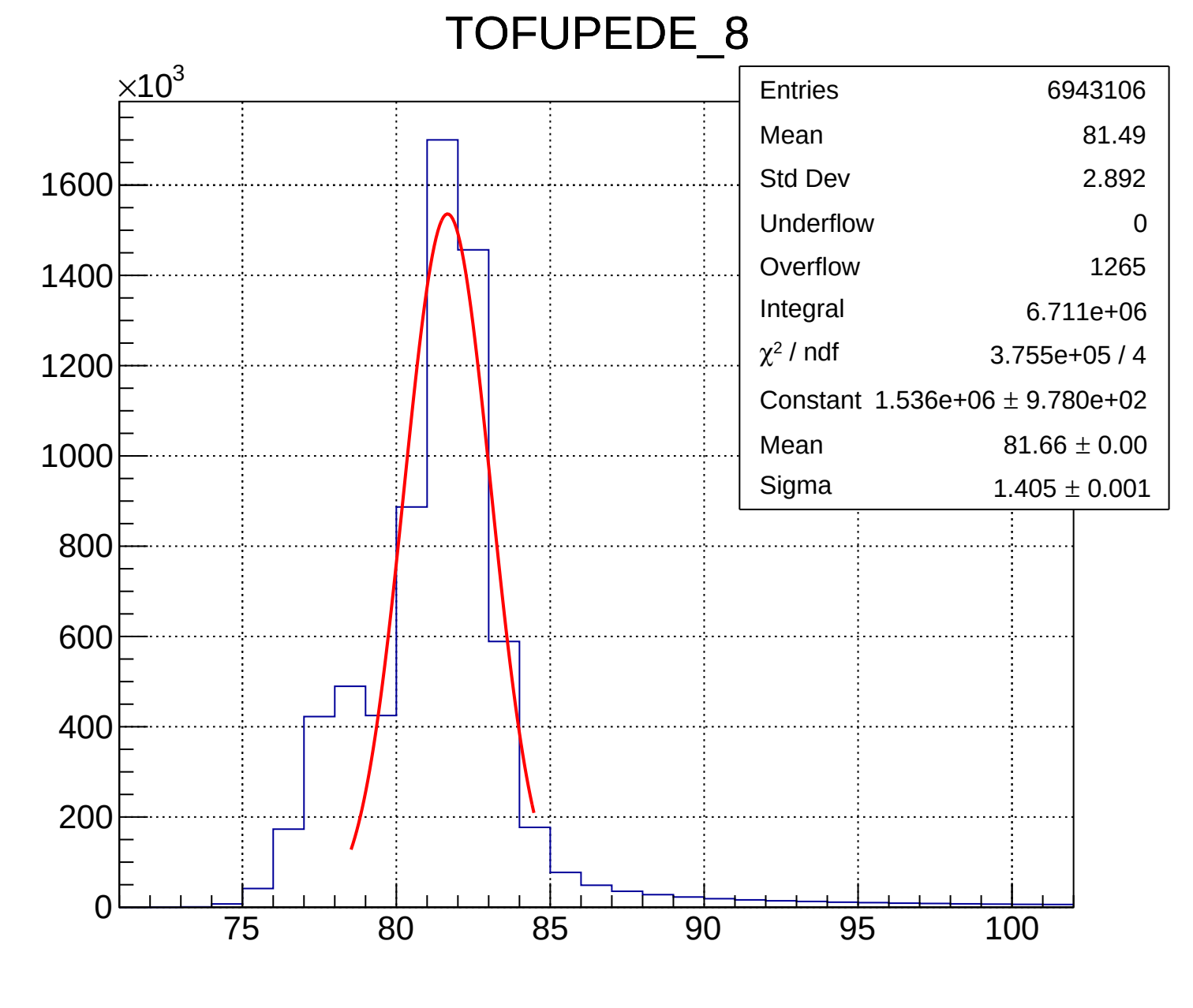

TOFUPEDE_3
×10^3
1600
1400
1200
1000
800
600
400
200
0
105
110
115
120
125
130
Entries 7059828
Mean 113.6
Std Dev 2.496
Underflow 0
Overflow 1237
Integral 6.91e+06
χ² / ndf 2.894e+05 / 4
Constant 1.513e+06 ± 9.017e+02
Mean 113.7 ± 0.0
Sigma 1.623 ± 0.001

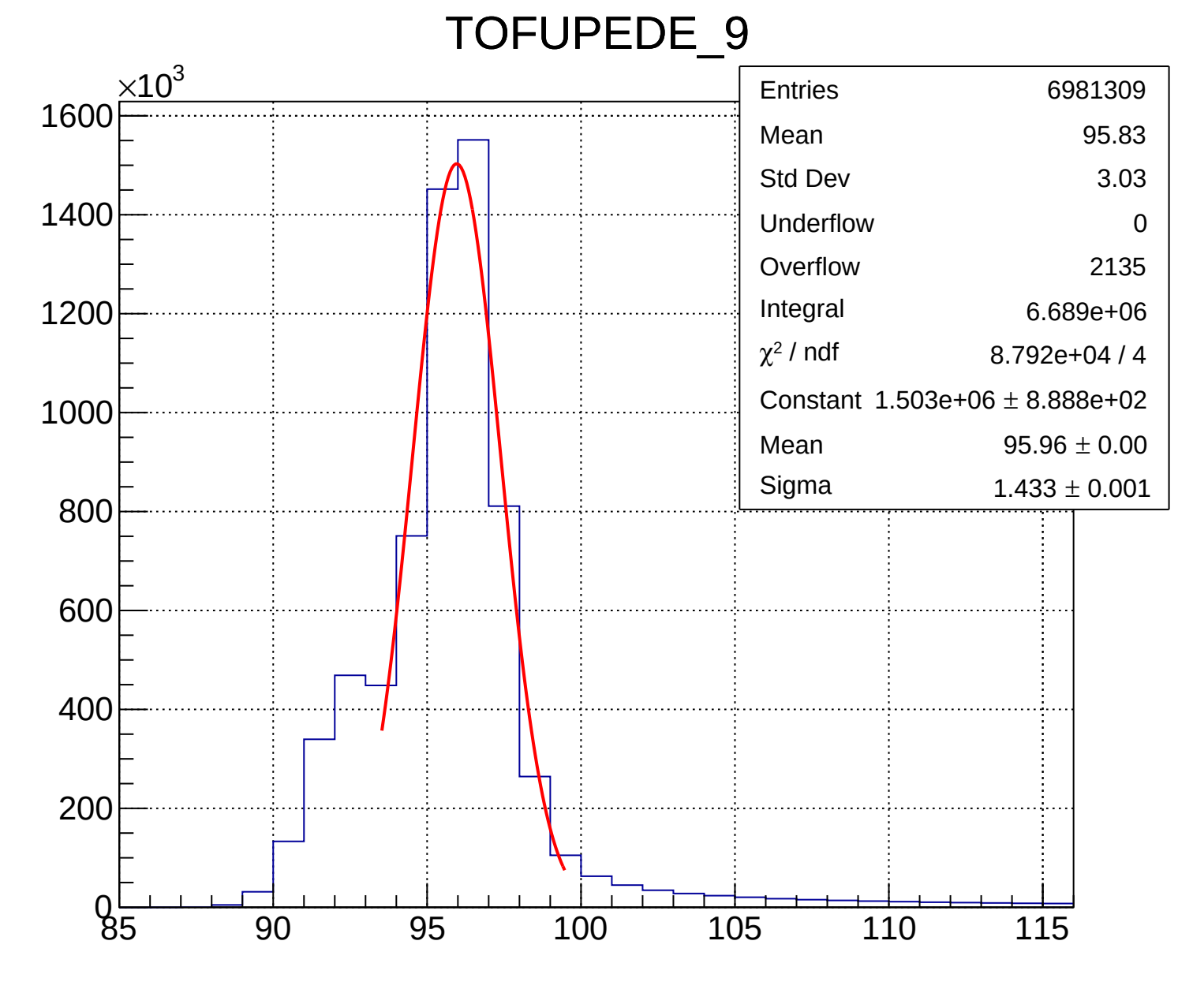

TOFUPEDE_4
×10^3
1600
1400
1200
1000
800
600
400
200
0
90
95
100
105
110
115
Entries 6891527
Mean 96.8
Std Dev 2.461
Underflow 0
Overflow 1320
Integral 6.734e+06
χ² / ndf 9.55e+04 / 4
Constant 1.646e+06 ± 9.073e+02
Mean 96.97 ± 0.00
Sigma 1.403 ± 0.001

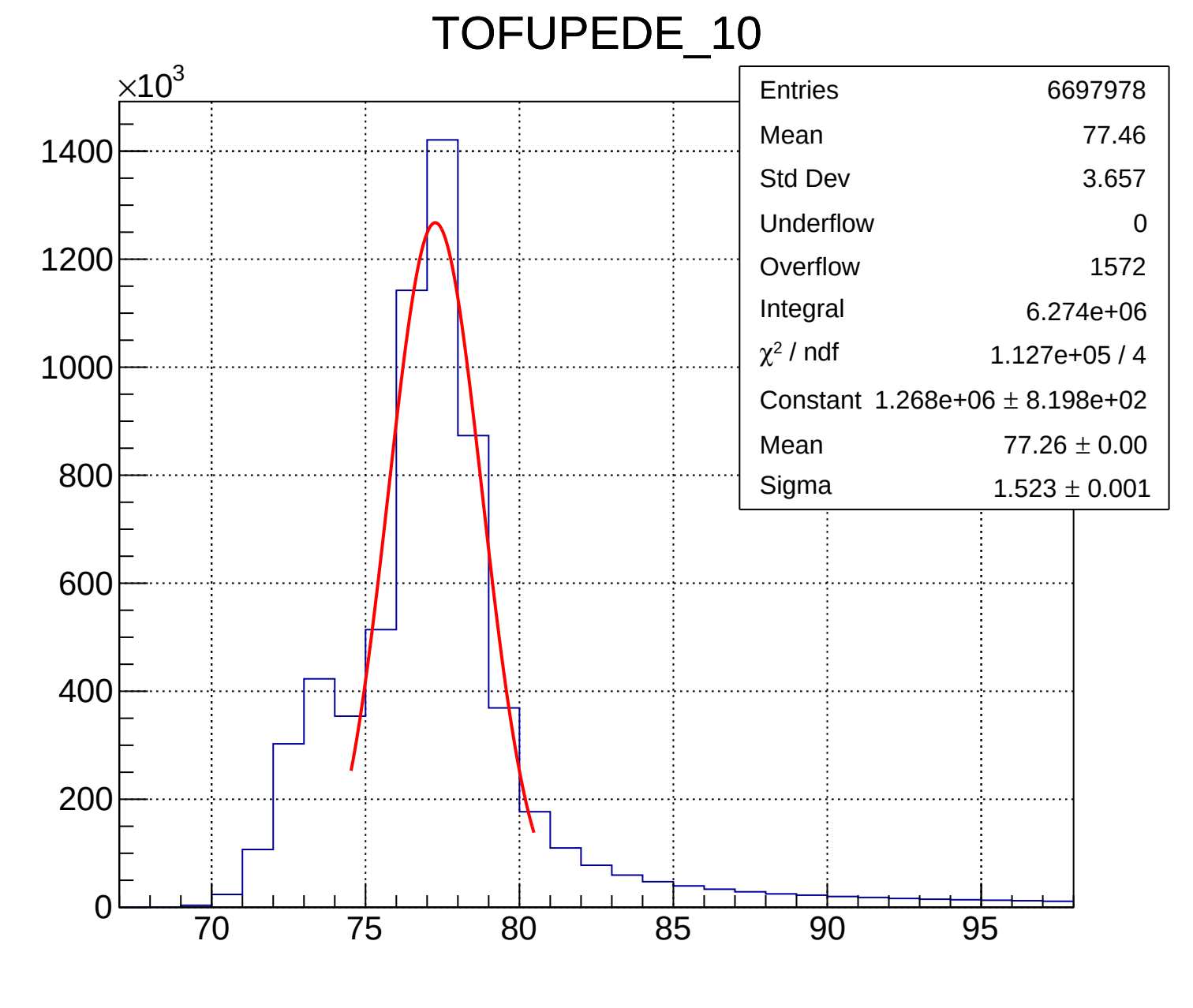

TOFUPEDE_5
×10^3
1200
1000
800
600
400
200
0
105
110
115
120
125
130
135
Entries 6726215
Mean 115.6
Std Dev 2.956
Underflow 0
Overflow 1678
Integral 6.503e+06
χ² / ndf 3.617e+04 / 4
Constant 1.21e+06 ± 7.05e+02
Mean 115.6 ± 0.0
Sigma 1.965 ± 0.001

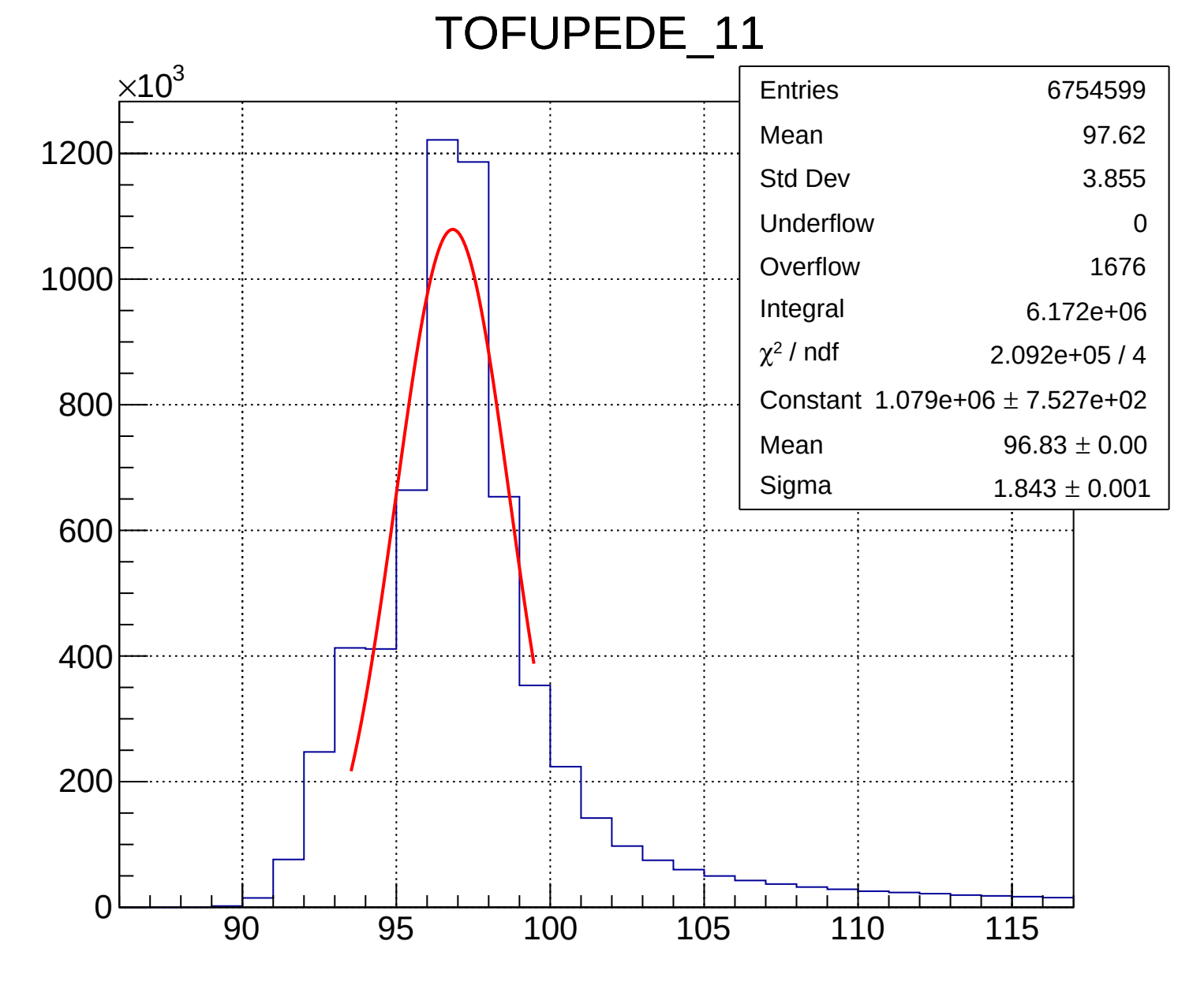

TOFUPEDE_6
×10^3
1600
1400
1200
1000
800
600
400
200
0
95
100
105
110
115
120
125
Entries 6735109
Mean 105
Std Dev 2.905
Underflow 0
Overflow 3196
Integral 6.525e+06
χ² / ndf 1.219e+05 / 4
Constant 1.466e+06 ± 8.919e+02
Mean 105.3 ± 0.0
Sigma 1.427 ± 0.001

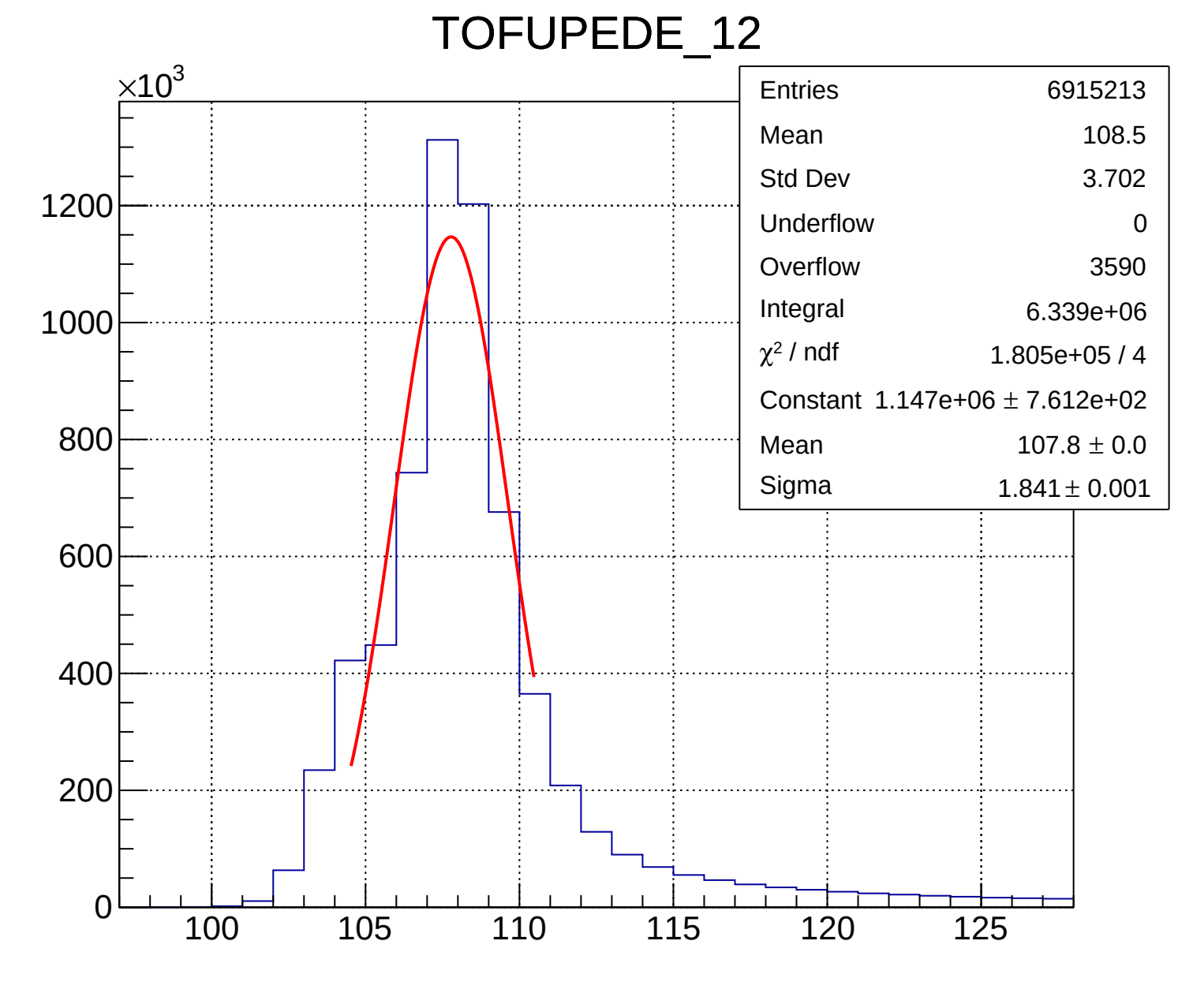

TOFUPEDE_7
×10^3
1600
1400
1200
1000
800
600
400
200
0
90
95
100
105
110
115
120
Entries 7027388
Mean 100.4
Std Dev 2.834
Underflow 0
Overflow 1133
Integral 6.825e+06
χ² / ndf 1.845e+05 / 4
Constant 1.47e+06 ± 8.67e+02
Mean 100.5 ± 0.0
Sigma 1.562 ± 0.001

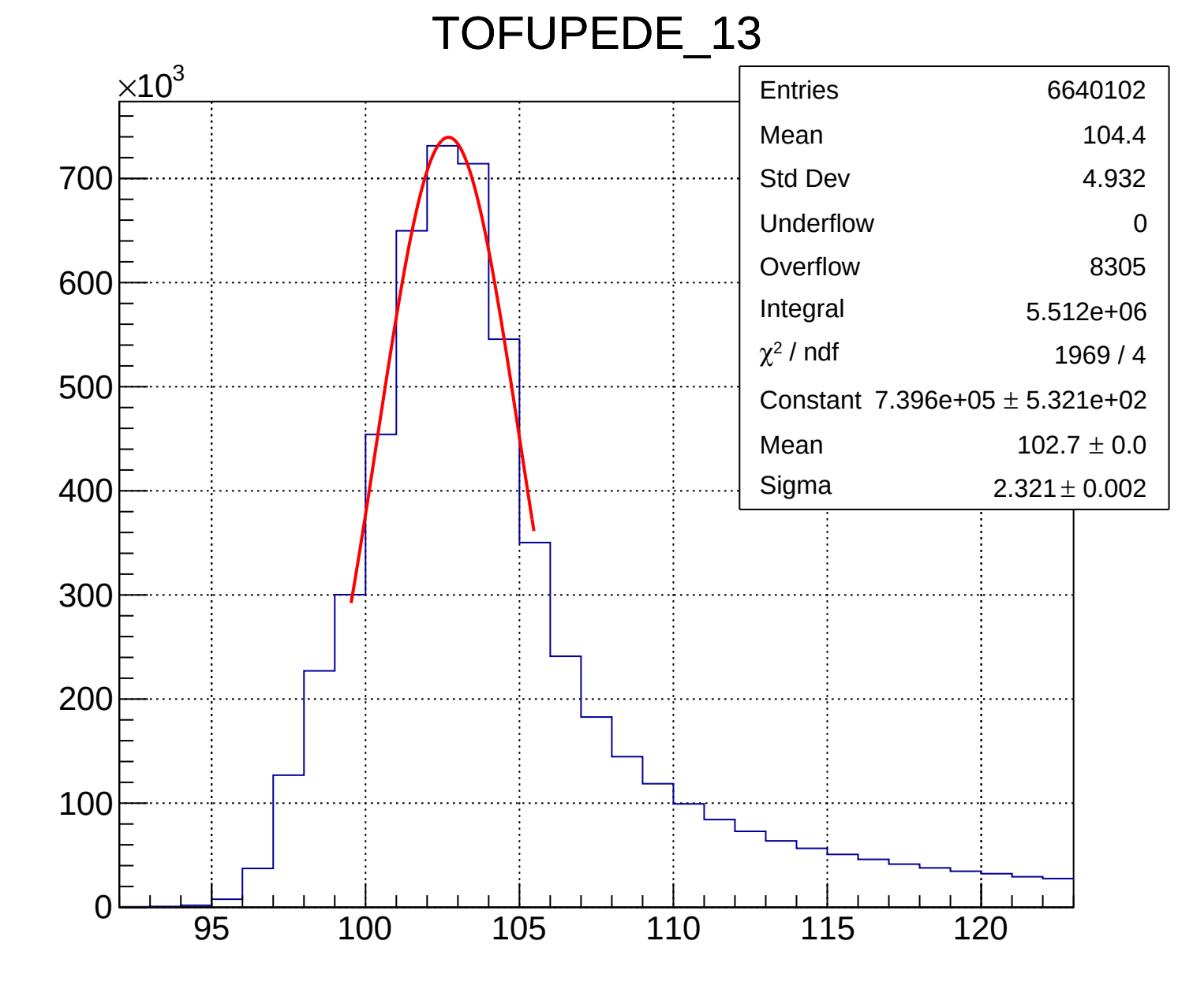

TOFUPEDE_8
×10^3
1600
1400
1200
1000
800
600
400
200
0
75
80
85
90
95
100
Entries 6943106
Mean 81.49
Std Dev 2.892
Underflow 0
Overflow 1265
Integral 6.711e+06
χ² / ndf 3.755e+05 / 4
Constant 1.536e+06 ± 9.780e+02
Mean 81.66 ± 0.00
Sigma 1.405 ± 0.001

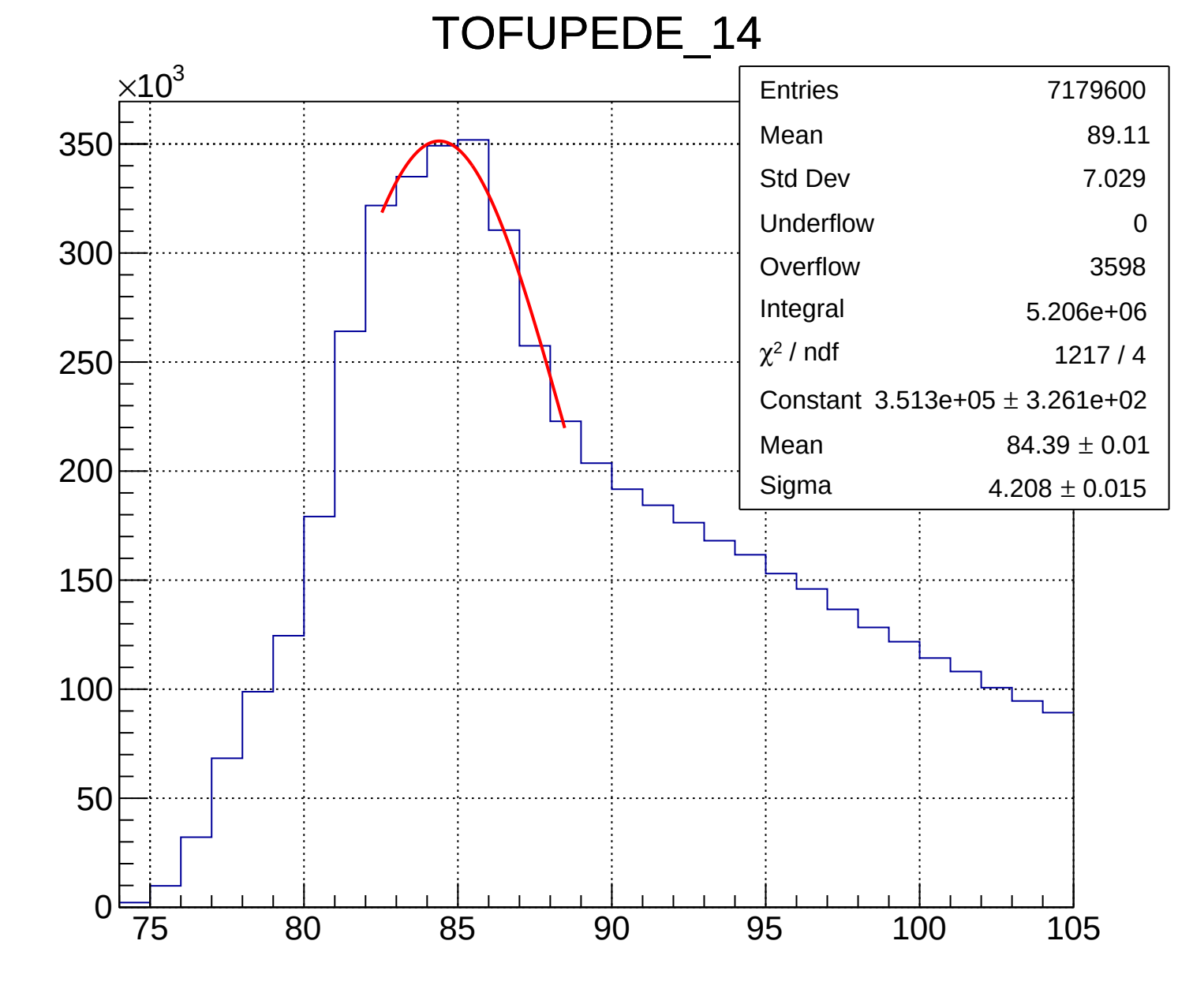

TOFUPEDE_9
×10^3
1600
1400
1200
1000
800
600
400
200
0
85
90
95
100
105
110
115
Entries 6981309
Mean 95.83
Std Dev 3.03
Underflow 0
Overflow 2135
Integral 6.689e+06
χ² / ndf 8.792e+04 / 4
Constant 1.503e+06 ± 8.888e+02
Mean 95.96 ± 0.00
Sigma 1.433 ± 0.001

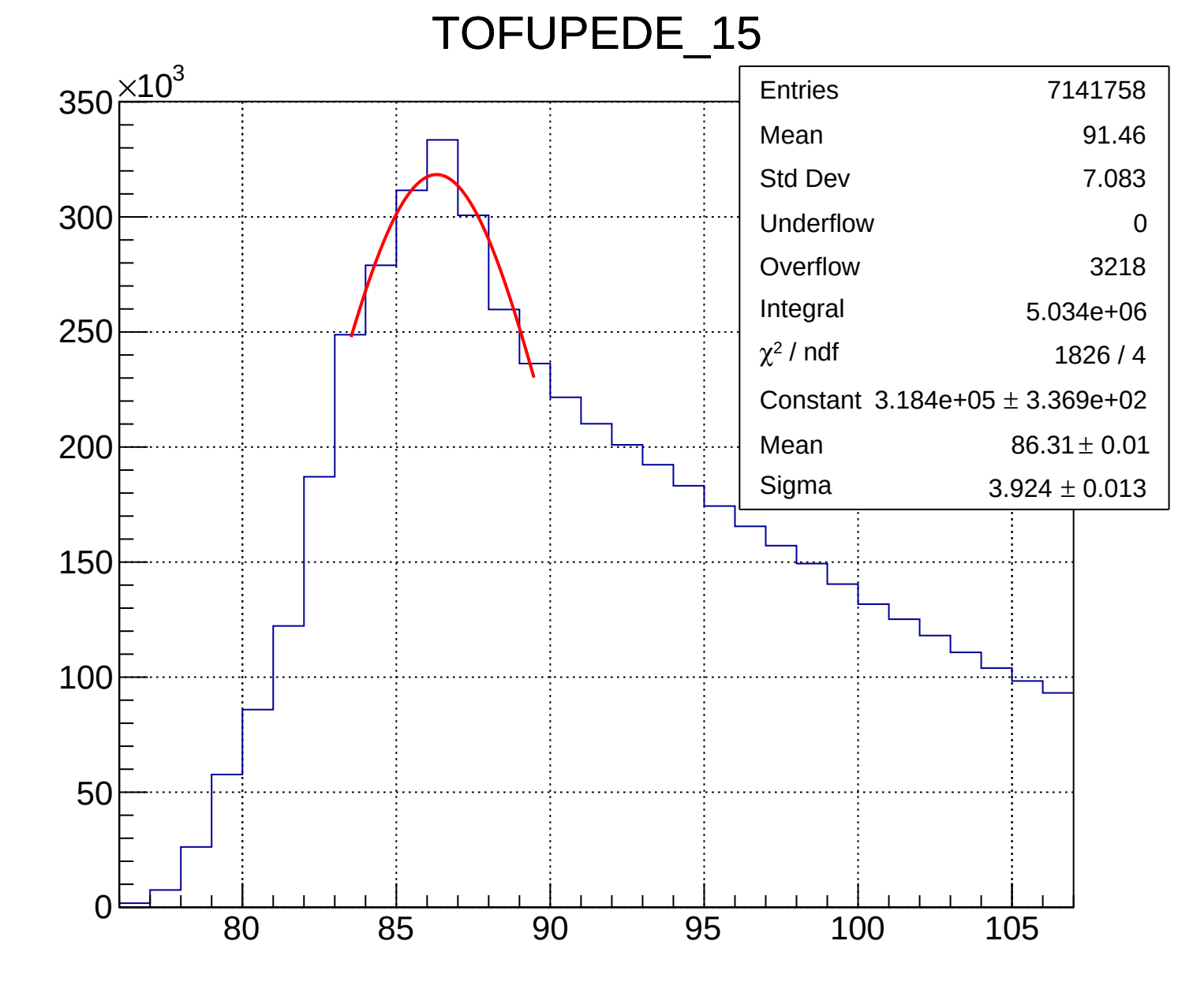

TOFUPEDE_10
×10^3
1400
1200
1000
800
600
400
200
0
70
75
80
85
90
95
Entries 6697978
Mean 77.46
Std Dev 3.657
Underflow 0
Overflow 1572
Integral 6.274e+06
χ² / ndf 1.127e+05 / 4
Constant 1.268e+06 ± 8.198e+02
Mean 77.26 ± 0.00
Sigma 1.523 ± 0.001

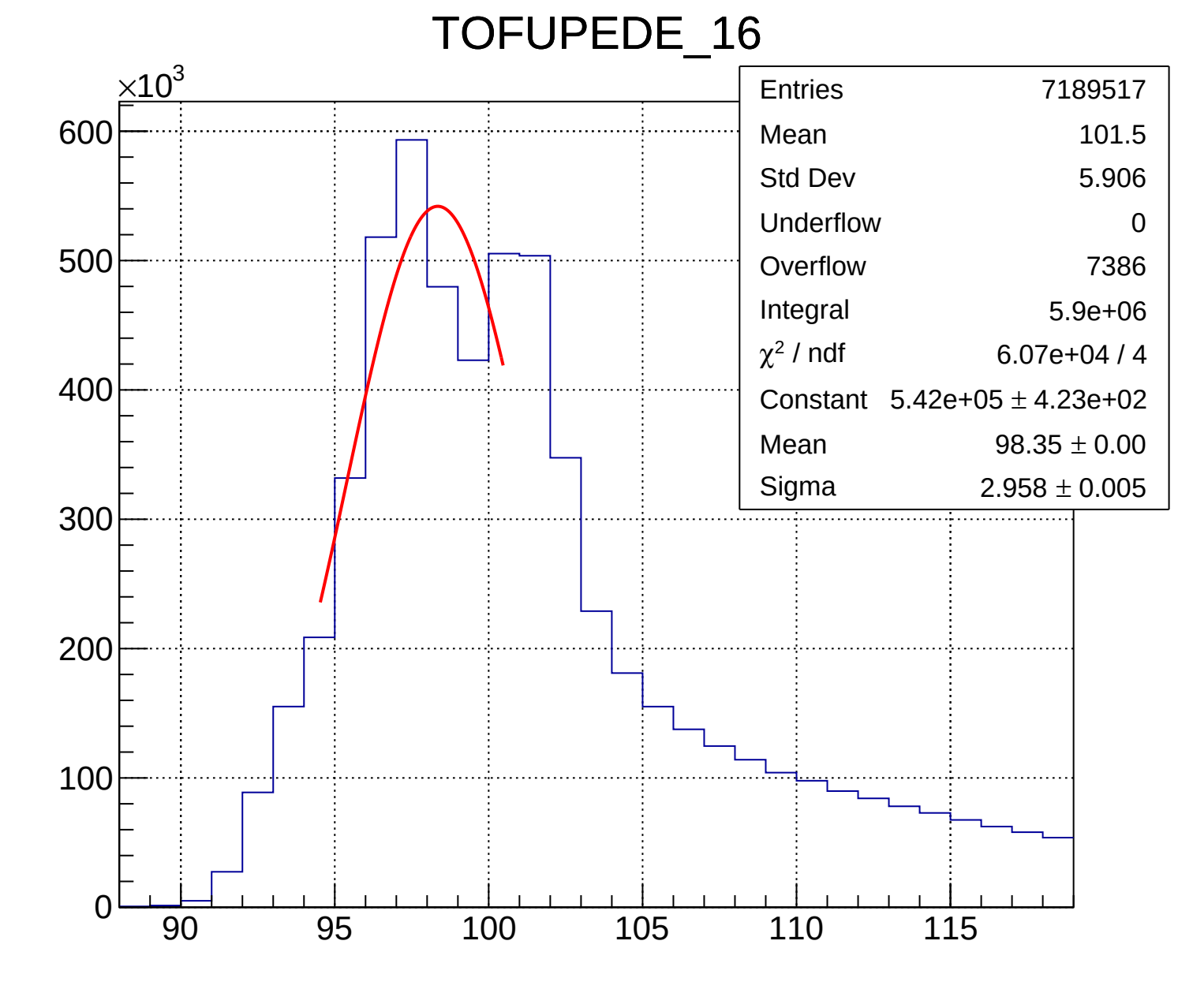

TOFUPEDE_11
×10^3
1200
1000
800
600
400
200
0
90
95
100
105
110
115
Entries 6754599
Mean 97.62
Std Dev 3.855
Underflow 0
Overflow 1676
Integral 6.172e+06
χ² / ndf 2.092e+05 / 4
Constant 1.079e+06 ± 7.527e+02
Mean 96.83 ± 0.00
Sigma 1.843 ± 0.001

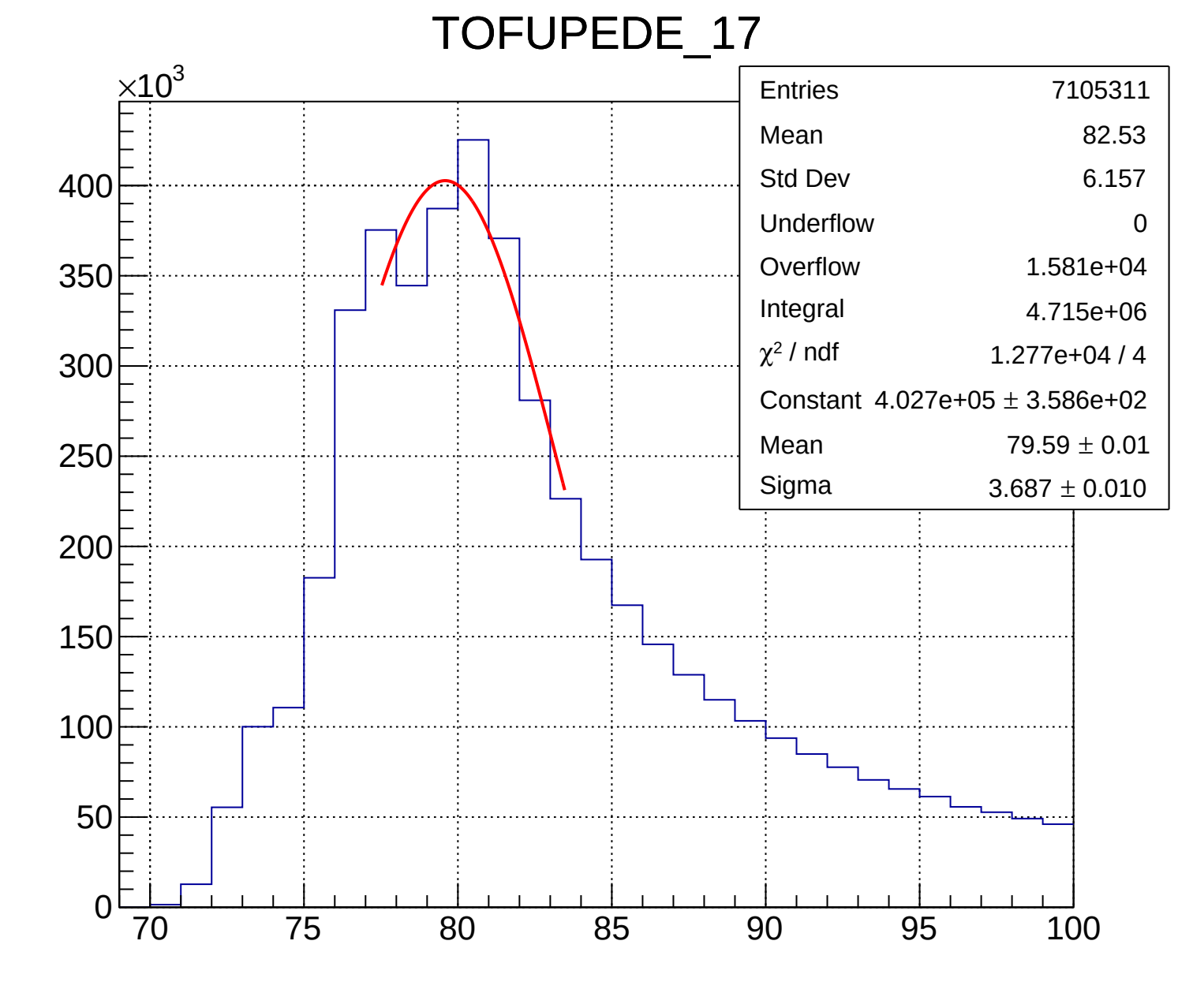

TOFUPEDE_12
×10^3
1200
1000
800
600
400
200
0
100
105
110
115
120
125
Entries 6915213
Mean 108.5
Std Dev 3.702
Underflow 0
Overflow 3590
Integral 6.339e+06
χ² / ndf 1.805e+05 / 4
Constant 1.147e+06 ± 7.612e+02
Mean 107.8 ± 0.0
Sigma 1.841 ± 0.001

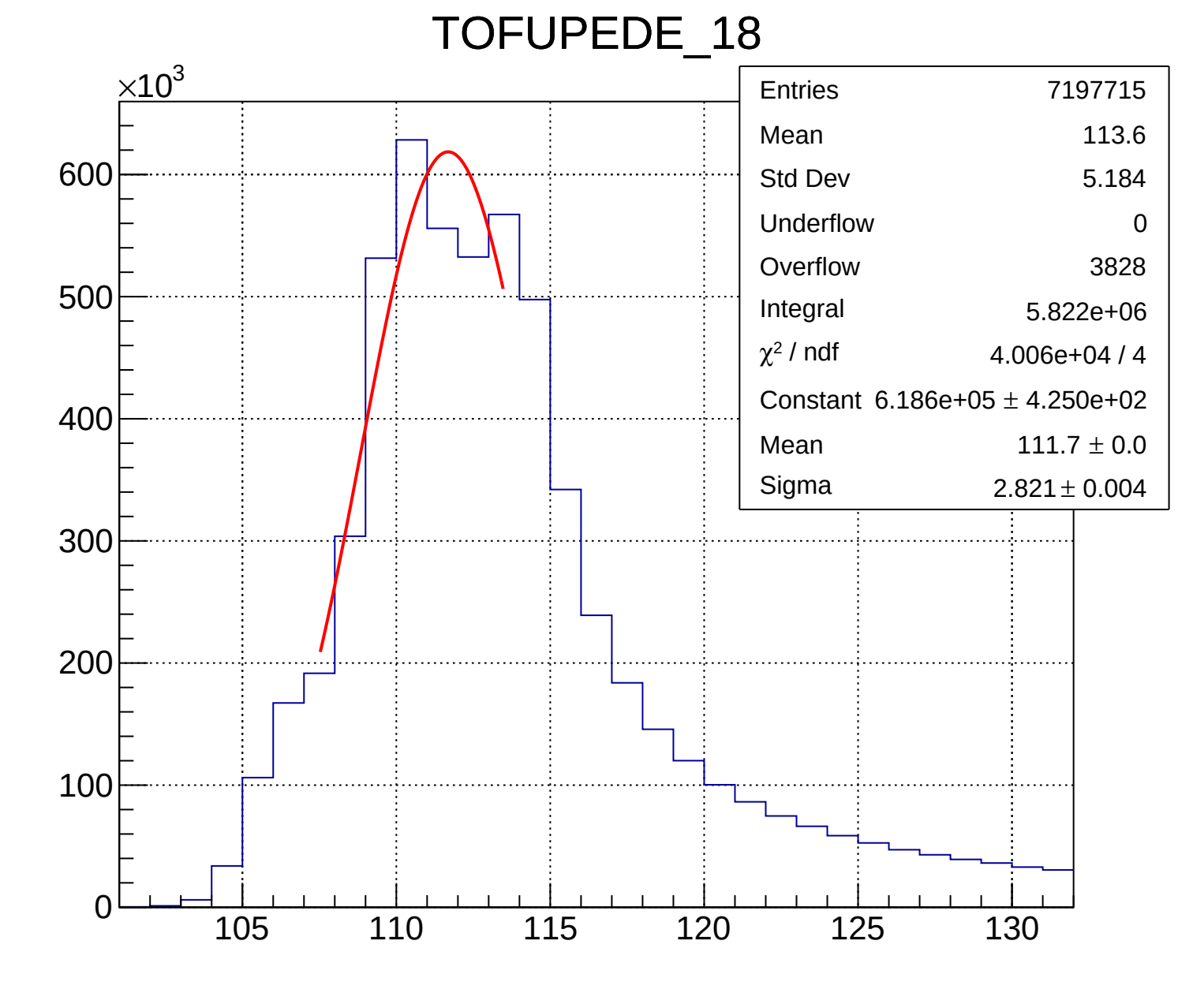

TOFUPEDE_13
×10^3
700
600
500
400
300
200
100
0
95
100
105
110
115
120
Entries 6640102
Mean 104.4
Std Dev 4.932
Underflow 0
Overflow 8305
Integral 5.512e+06
χ² / ndf 1969 / 4
Constant 7.396e+05 ± 5.321e+02
Mean 102.7 ± 0.0
Sigma 2.321 ± 0.002

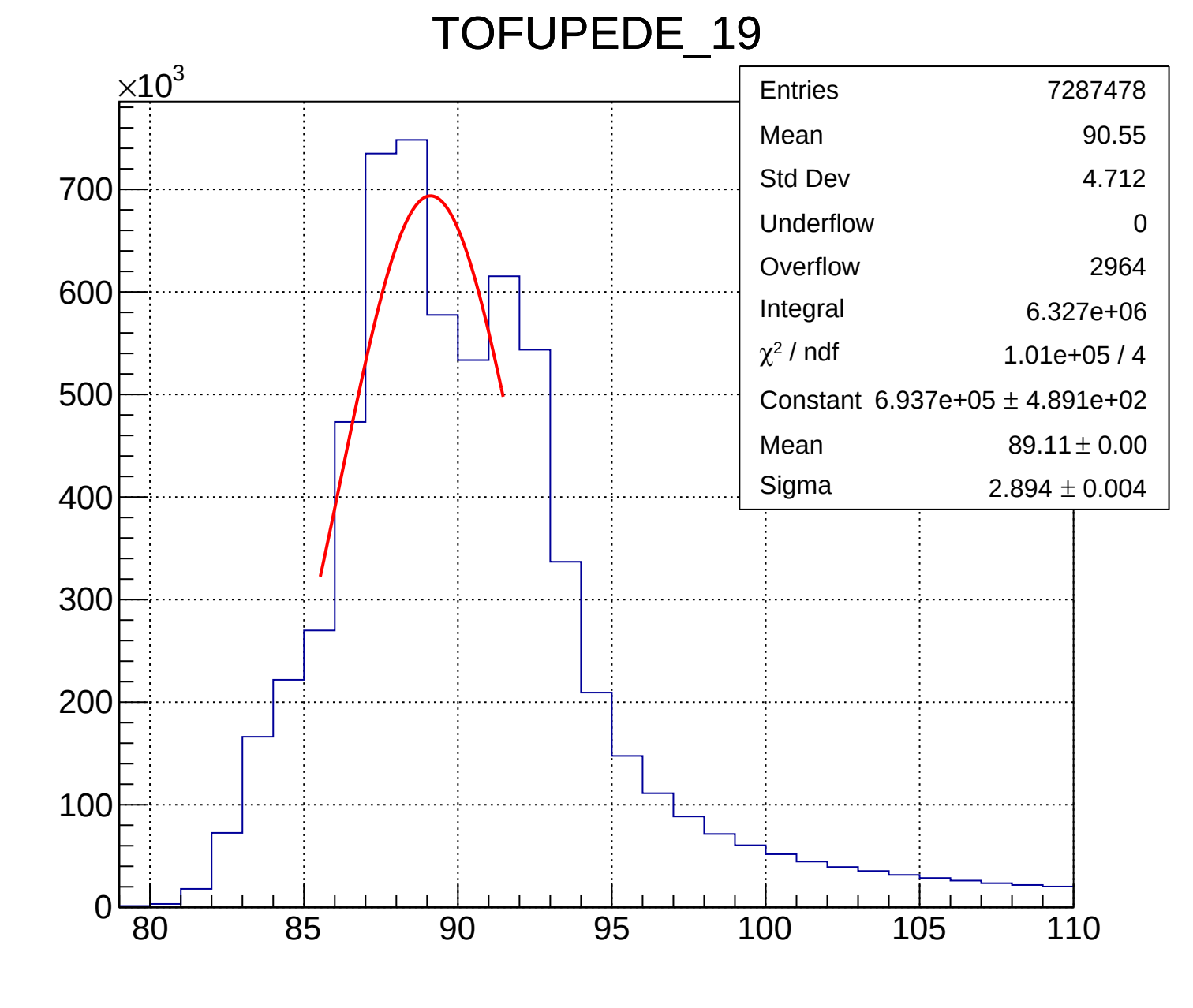

TOFUPEDE_14
×10^3
350
300
250
200
150
100
50
0
75
80
85
90
95
100
105
Entries 7179600
Mean 89.11
Std Dev 7.029
Underflow 0
Overflow 3598
Integral 5.206e+06
χ² / ndf 1217 / 4
Constant 3.513e+05 ± 3.261e+02
Mean 84.39 ± 0.01
Sigma 4.208 ± 0.015

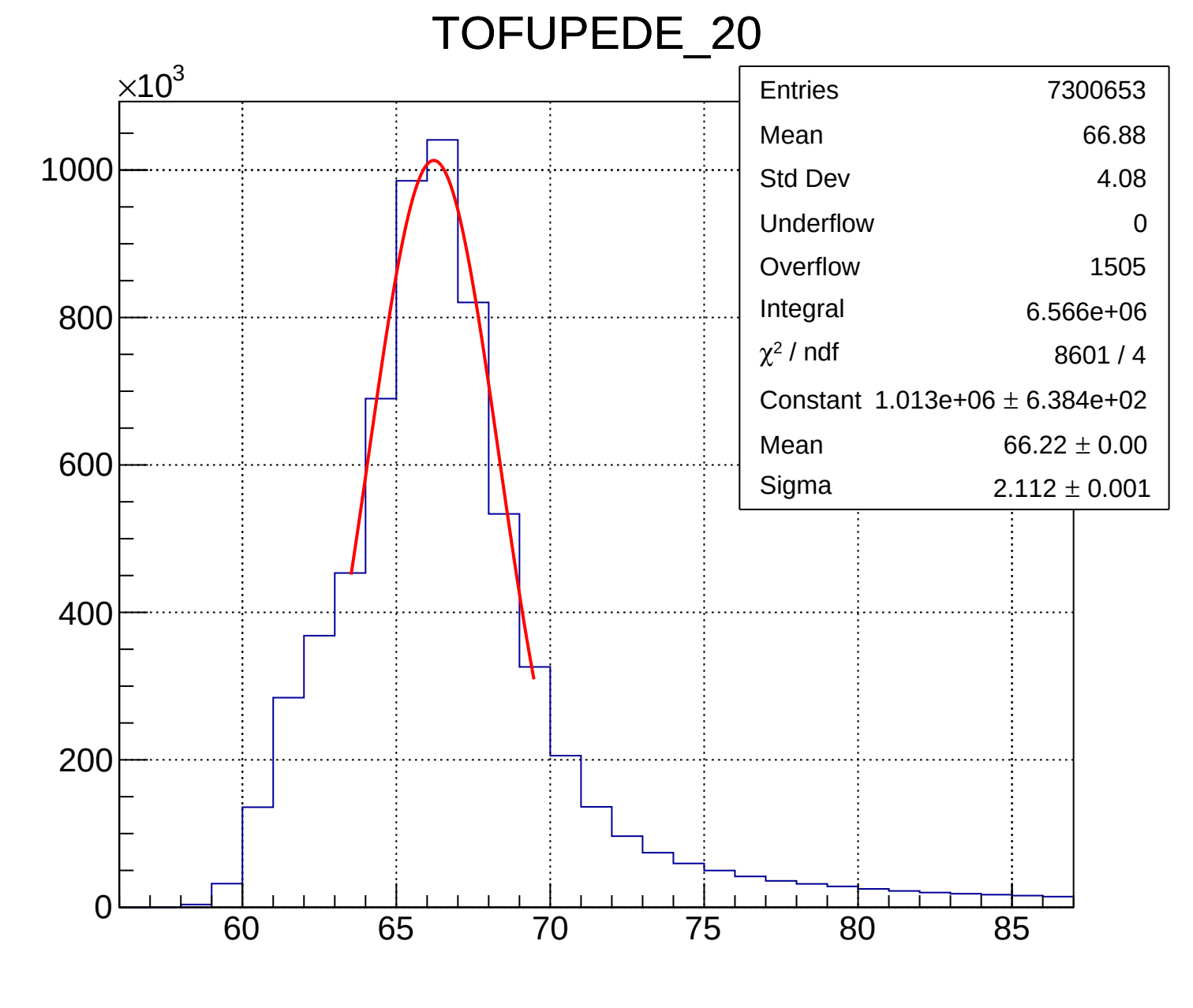

TOFUPEDE_15
×10^3
350
300
250
200
150
100
50
0
80
85
90
95
100
105
Entries 7141758
Mean 91.46
Std Dev 7.083
Underflow 0
Overflow 3218
Integral 5.034e+06
χ² / ndf 1826 / 4
Constant 3.184e+05 ± 3.369e+02
Mean 86.31 ± 0.01
Sigma 3.924 ± 0.013

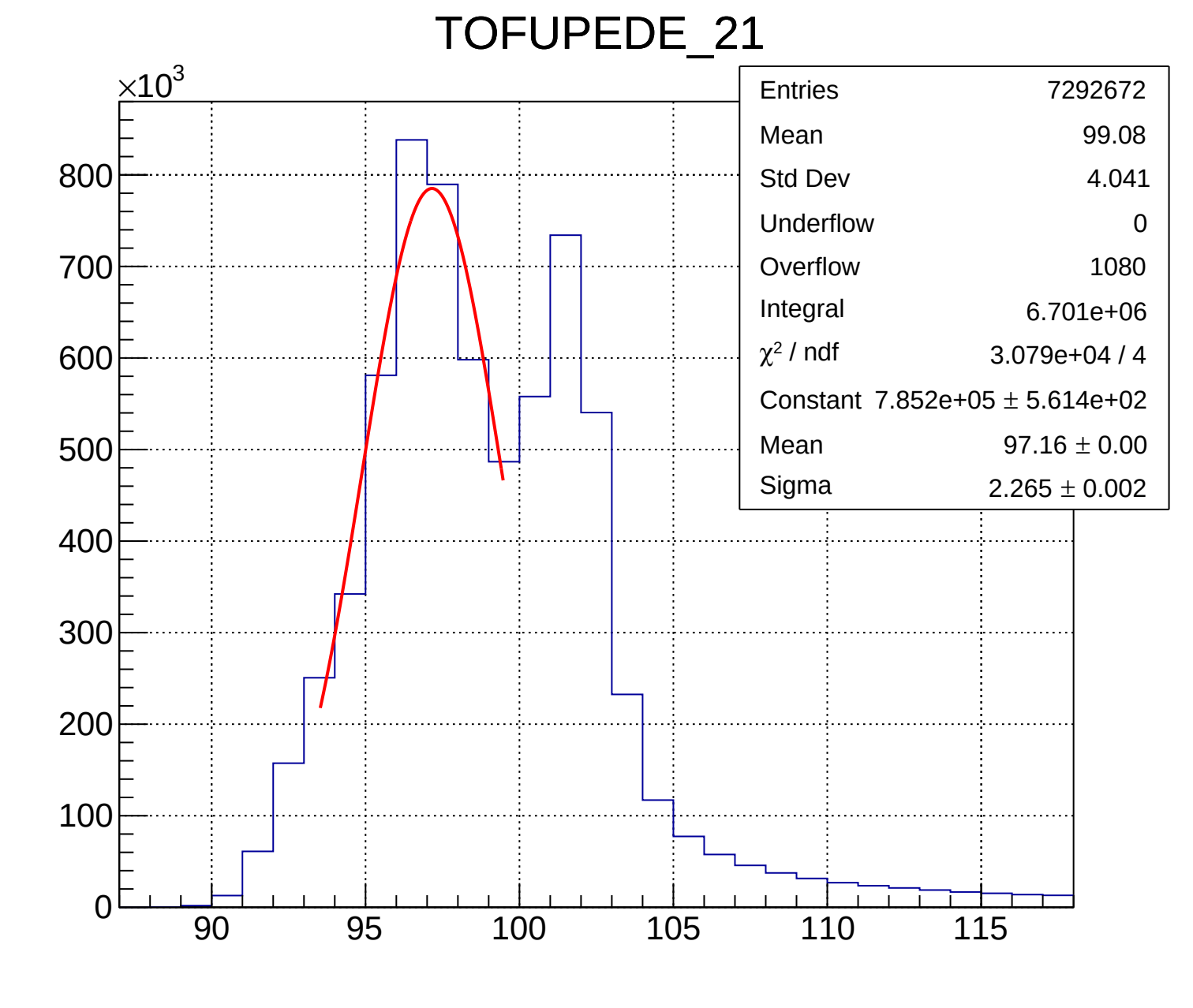

TOFUPEDE_16
×10^3
600
500
400
300
200
100
0
90
95
100
105
110
115
Entries 7189517
Mean 101.5
Std Dev 5.906
Underflow 0
Overflow 7386
Integral 5.9e+06
χ² / ndf 6.07e+04 / 4
Constant 5.42e+05 ± 4.23e+02
Mean 98.35 ± 0.00
Sigma 2.958 ± 0.005

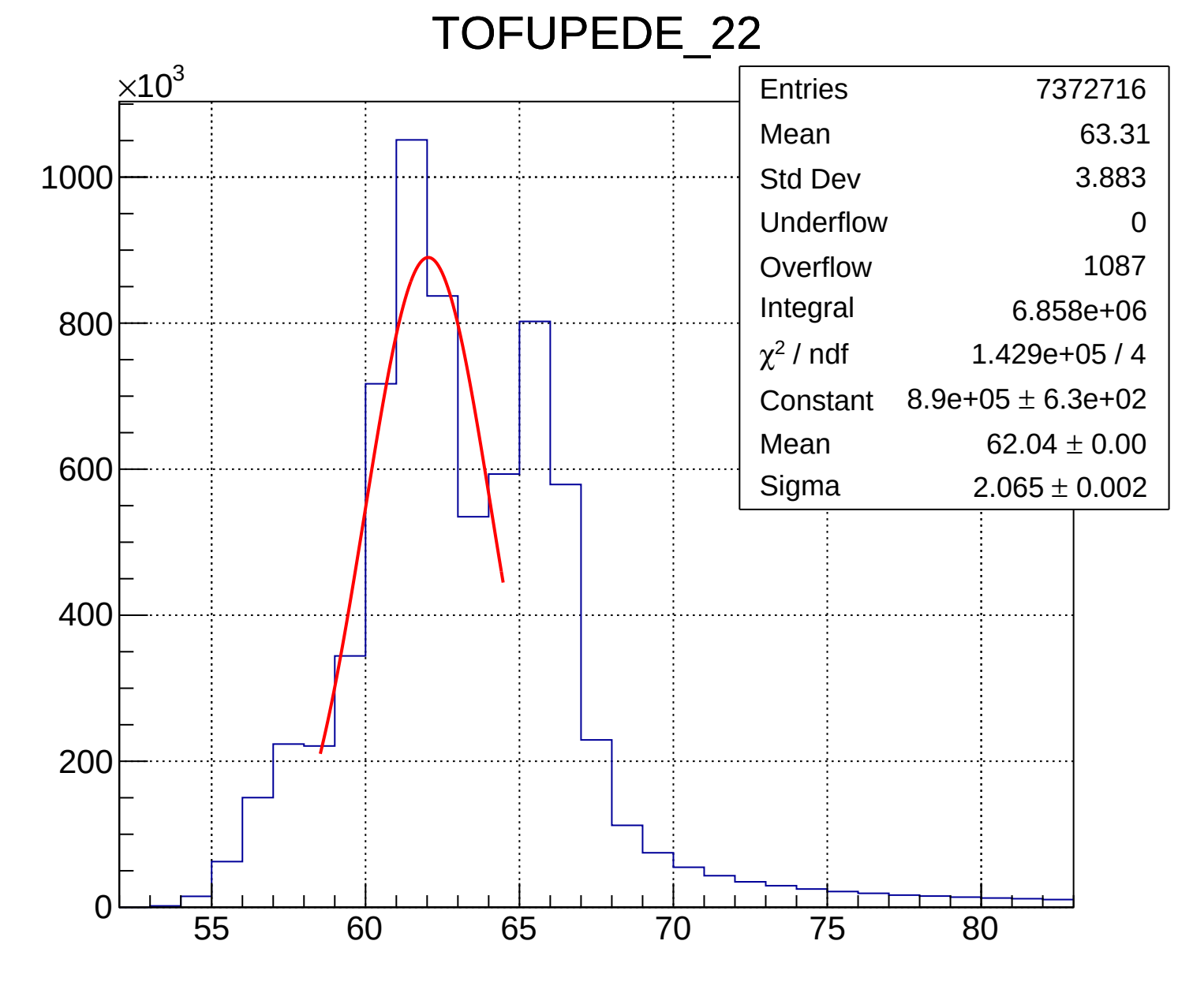

TOFUPEDE_17
×10^3
400
350
300
250
200
150
100
50
0
70
75
80
85
90
95
100
Entries 7105311
Mean 82.53
Std Dev 6.157
Underflow 0
Overflow 1.581e+04
Integral 4.715e+06
χ² / ndf 1.277e+04 / 4
Constant 4.027e+05 ± 3.586e+02
Mean 79.59 ± 0.01
Sigma 3.687 ± 0.010

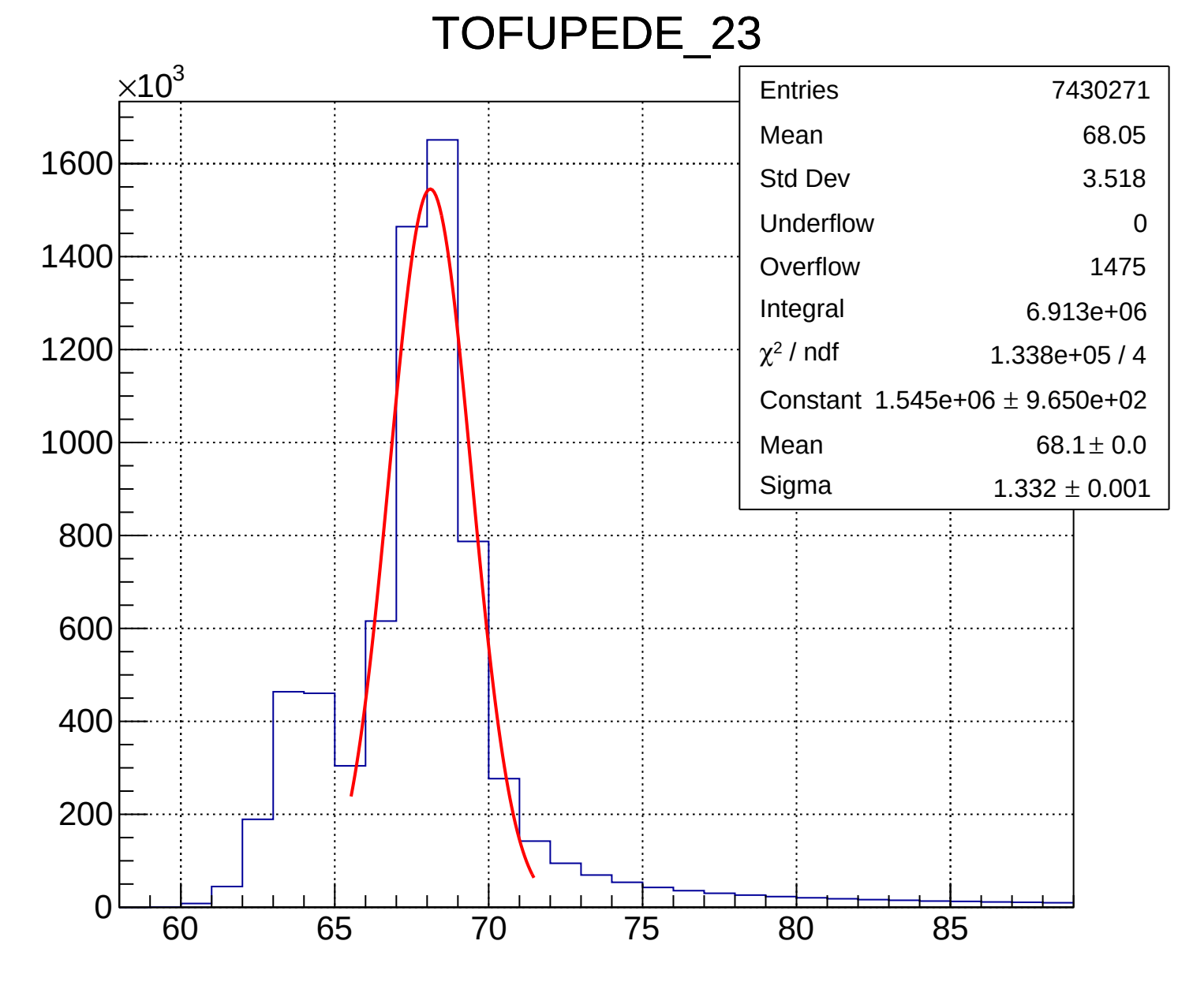

TOFUPEDE_18
×10^3
600
500
400
300
200
100
0
105
110
115
120
125
130
Entries 7197715
Mean 113.6
Std Dev 5.184
Underflow 0
Overflow 3828
Integral 5.822e+06
χ² / ndf 4.006e+04 / 4
Constant 6.186e+05 ± 4.250e+02
Mean 111.7 ± 0.0
Sigma 2.821 ± 0.004

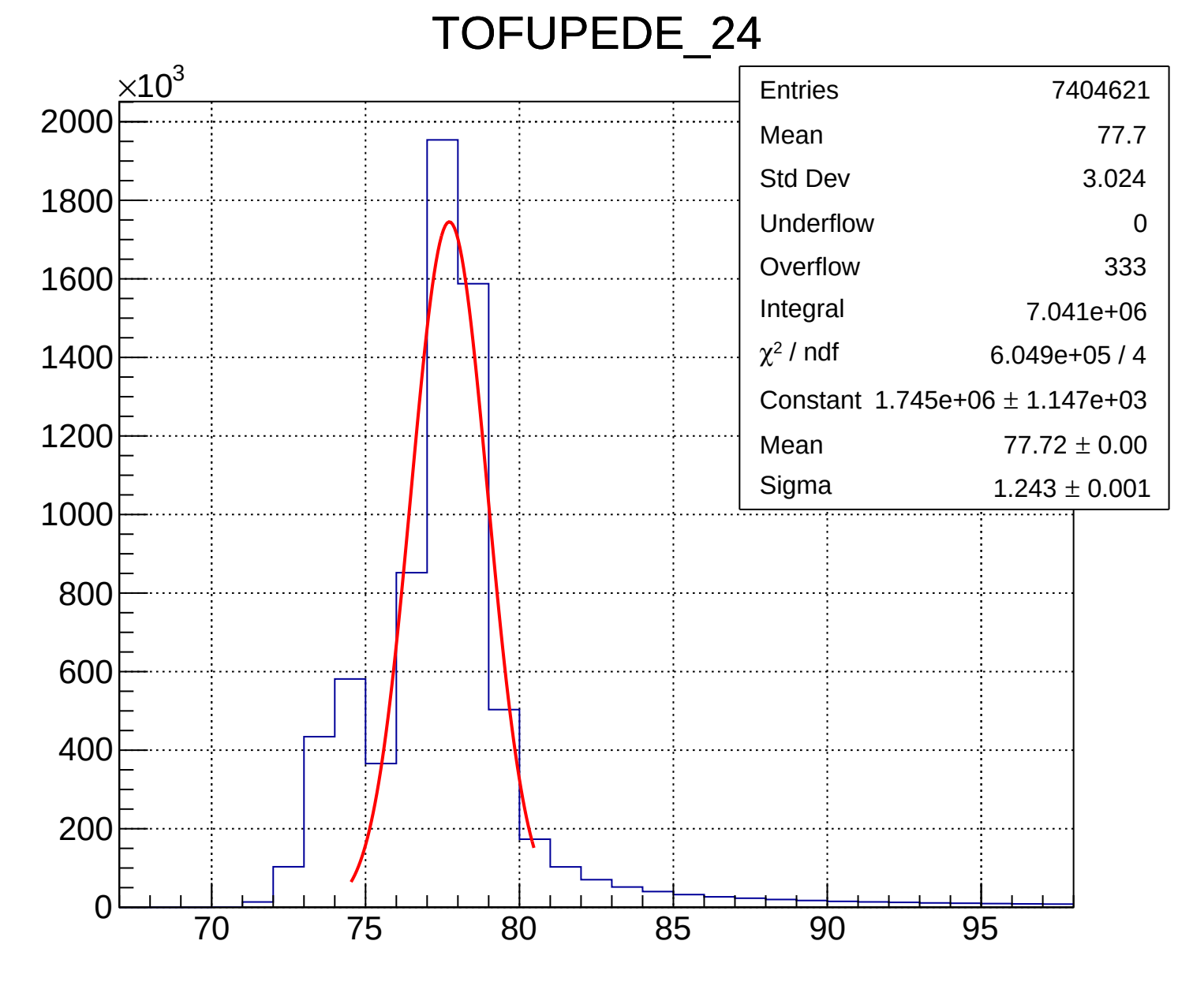

TOFUPEDE_19
×10^3
700
600
500
400
300
200
100
0
80
85
90
95
100
105
110
Entries 7287478
Mean 90.55
Std Dev 4.712
Underflow 0
Overflow 2964
Integral 6.327e+06
χ² / ndf 1.01e+05 / 4
Constant 6.937e+05 ± 4.891e+02
Mean 89.11 ± 0.00
Sigma 2.894 ± 0.004

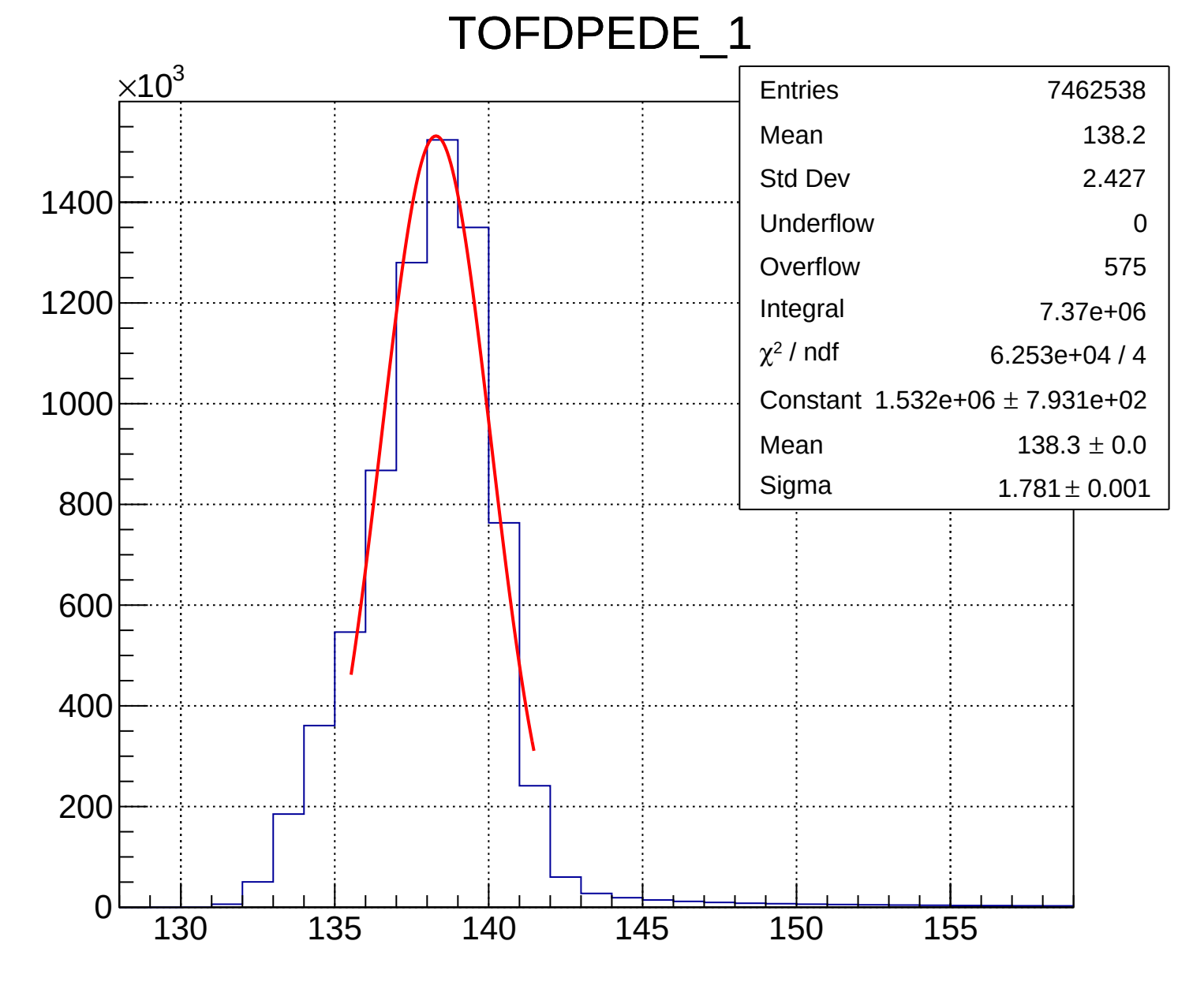

TOFUPEDE_20
×10^3
1000
800
600
400
200
0
60
65
70
75
80
85
Entries 7300653
Mean 66.88
Std Dev 4.08
Underflow 0
Overflow 1505
Integral 6.566e+06
χ² / ndf 8601 / 4
Constant 1.013e+06 ± 6.384e+02
Mean 66.22 ± 0.00
Sigma 2.112 ± 0.001

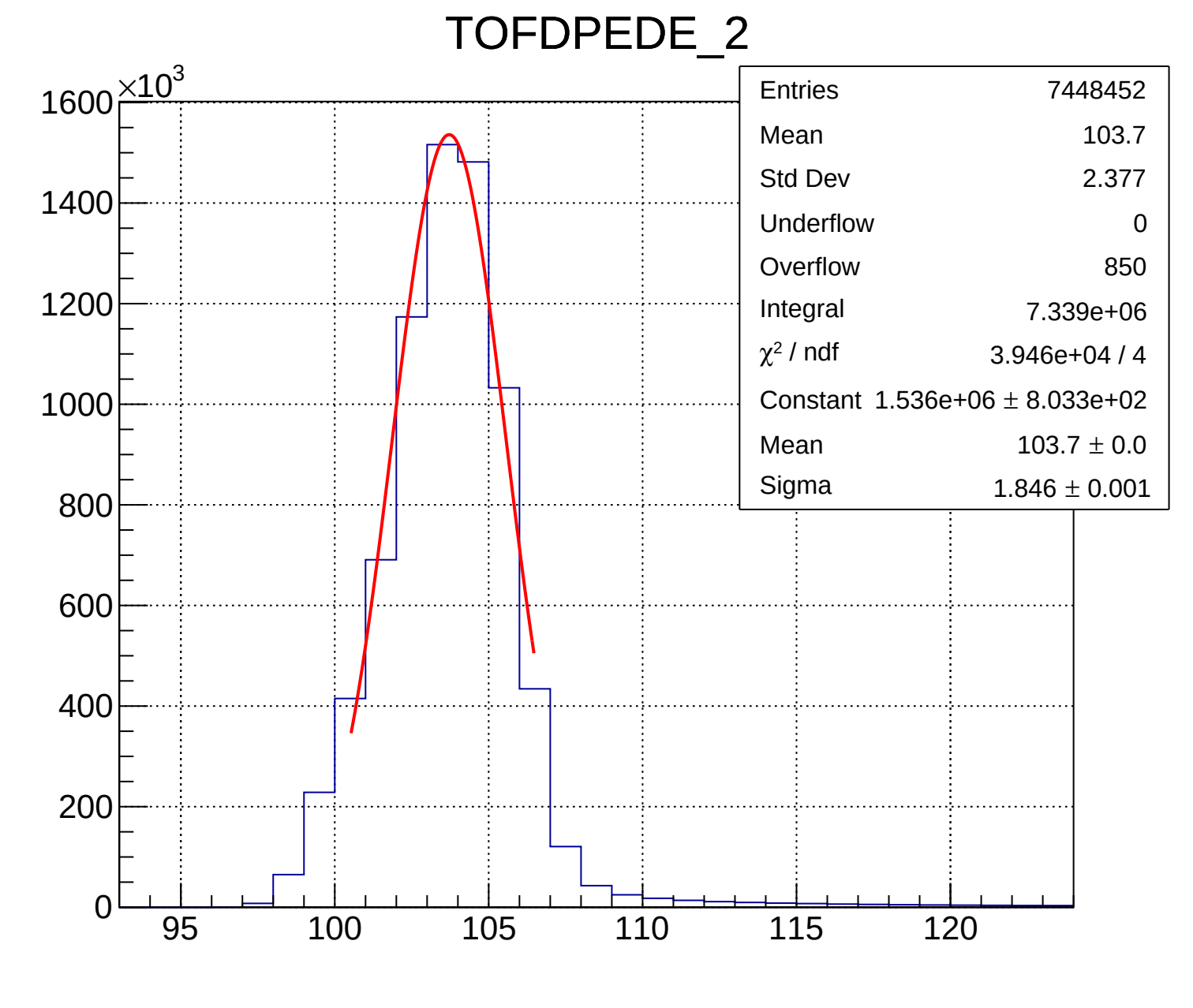

TOFUPEDE_21
×10^3
800
700
600
500
400
300
200
100
0
90
95
100
105
110
115
Entries 7292672
Mean 99.08
Std Dev 4.041
Underflow 0
Overflow 1080
Integral 6.701e+06
χ² / ndf 3.079e+04 / 4
Constant 7.852e+05 ± 5.614e+02
Mean 97.16 ± 0.00
Sigma 2.265 ± 0.002

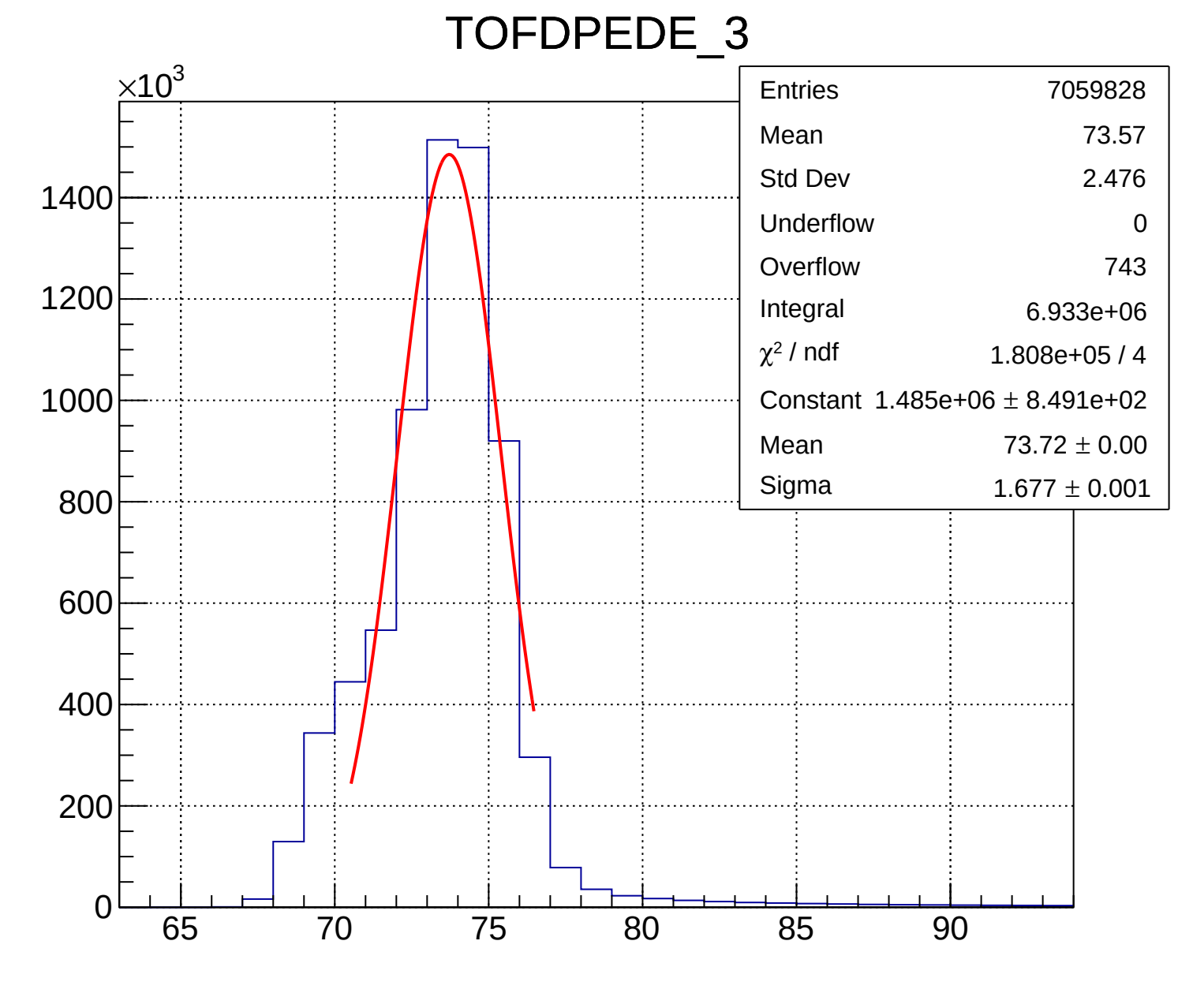

TOFUPEDE_22
×10^3
1000
800
600
400
200
0
55
60
65
70
75
80
Entries 7372716
Mean 63.31
Std Dev 3.883
Underflow 0
Overflow 1087
Integral 6.858e+06
χ² / ndf 1.429e+05 / 4
Constant 8.9e+05 ± 6.3e+02
Mean 62.04 ± 0.00
Sigma 2.065 ± 0.002

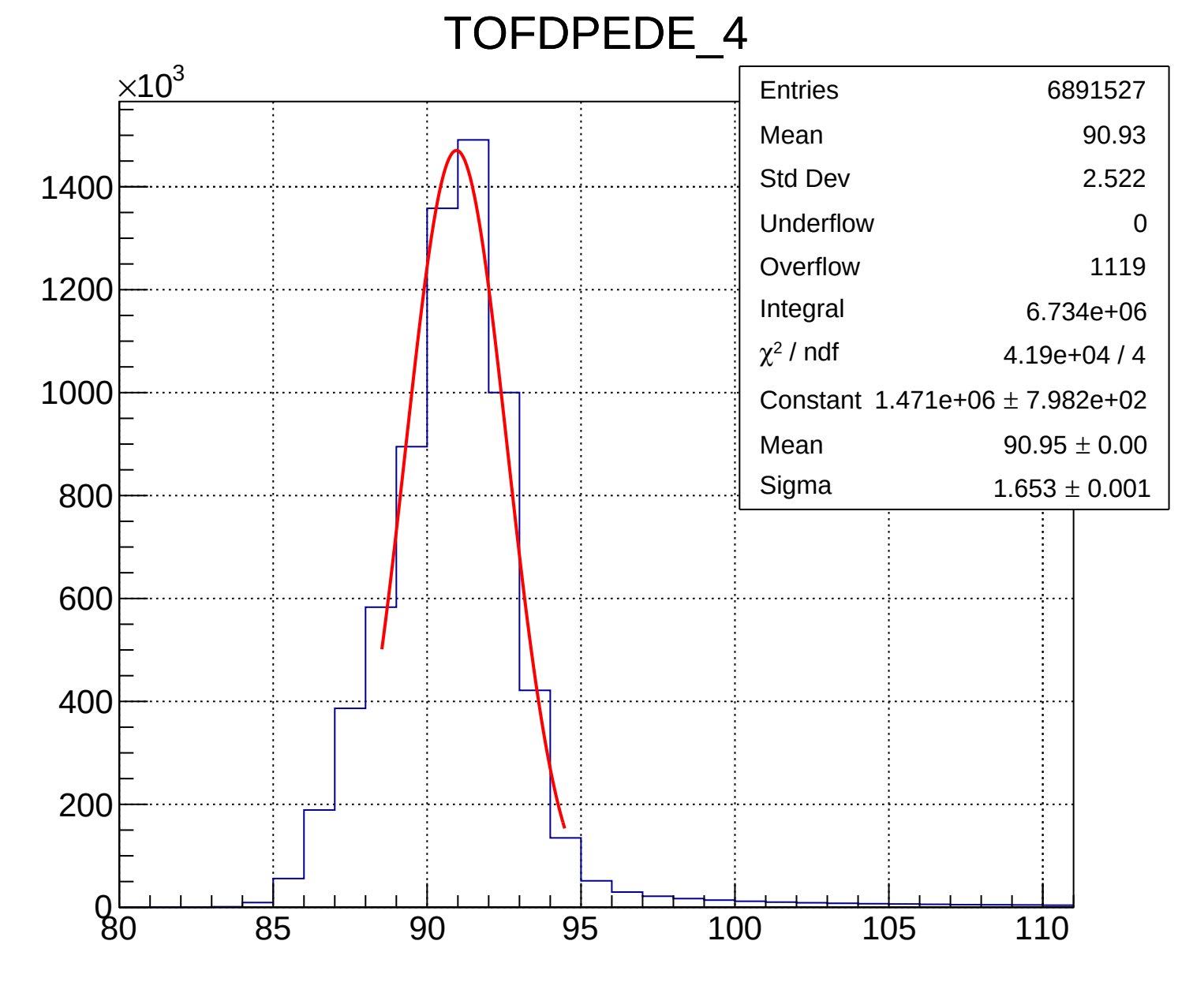

TOFUPEDE_23
×10^3
1600
1400
1200
1000
800
600
400
200
0
60
65
70
75
80
85
Entries 7430271
Mean 68.05
Std Dev 3.518
Underflow 0
Overflow 1475
Integral 6.913e+06
χ² / ndf 1.338e+05 / 4
Constant 1.545e+06 ± 9.650e+02
Mean 68.1 ± 0.0
Sigma 1.332 ± 0.001

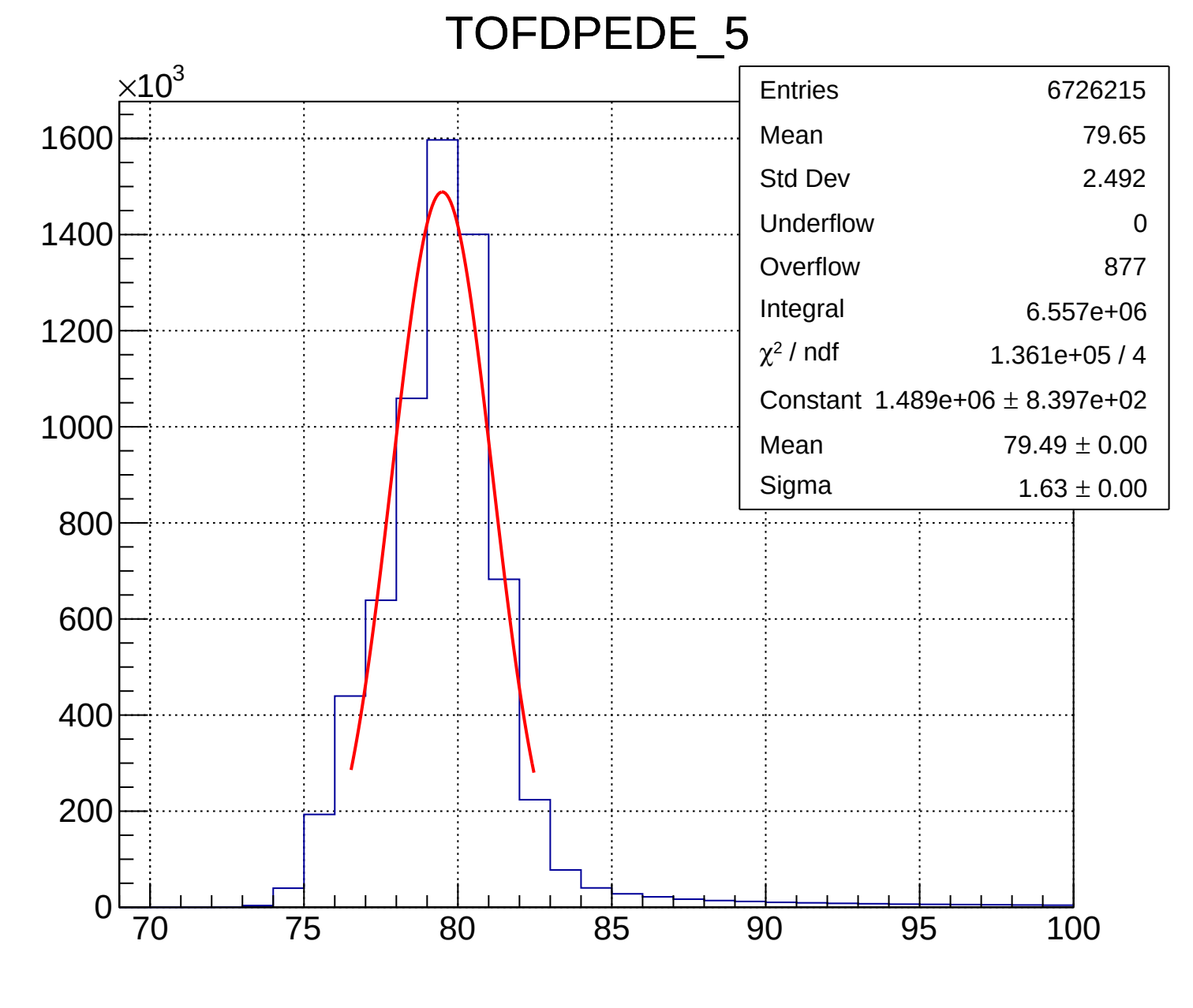

TOFUPEDE_24
×10^3
2000
1800
1600
1400
1200
1000
800
600
400
200
0
70
75
80
85
90
95
Entries 7404621
Mean 77.7
Std Dev 3.024
Underflow 0
Overflow 333
Integral 7.041e+06
χ² / ndf 6.049e+05 / 4
Constant 1.745e+06 ± 1.147e+03
Mean 77.72 ± 0.00
Sigma 1.243 ± 0.001

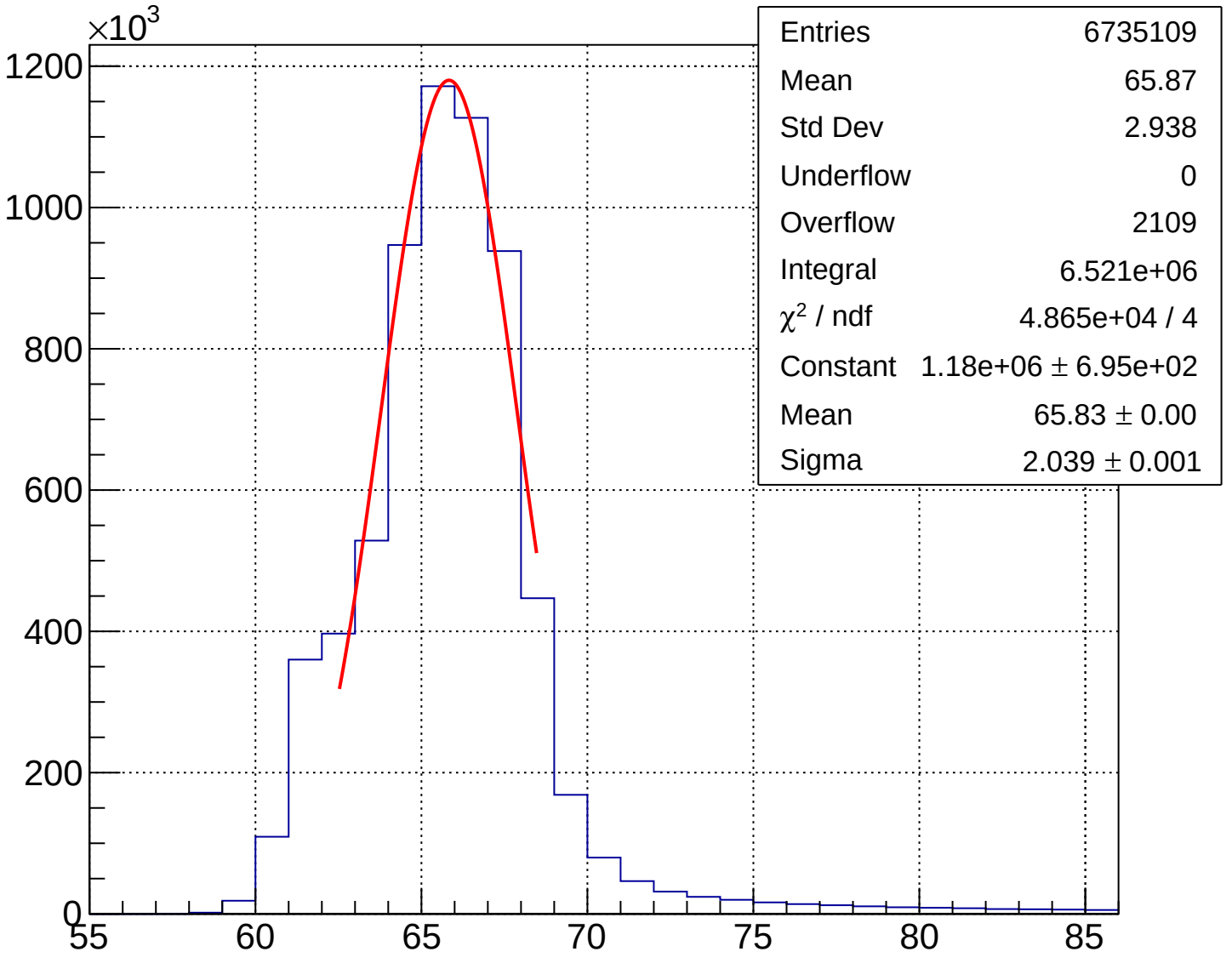

TOFDPEDE_1
×10^3
1400
1200
1000
800
600
400
200
0
130
135
140
145
150
155
Entries 7462538
Mean 138.2
Std Dev 2.427
Underflow 0
Overflow 575
Integral 7.37e+06
χ² / ndf 6.253e+04 / 4
Constant 1.532e+06 ± 7.931e+02
Mean 138.3 ± 0.0
Sigma 1.781 ± 0.001

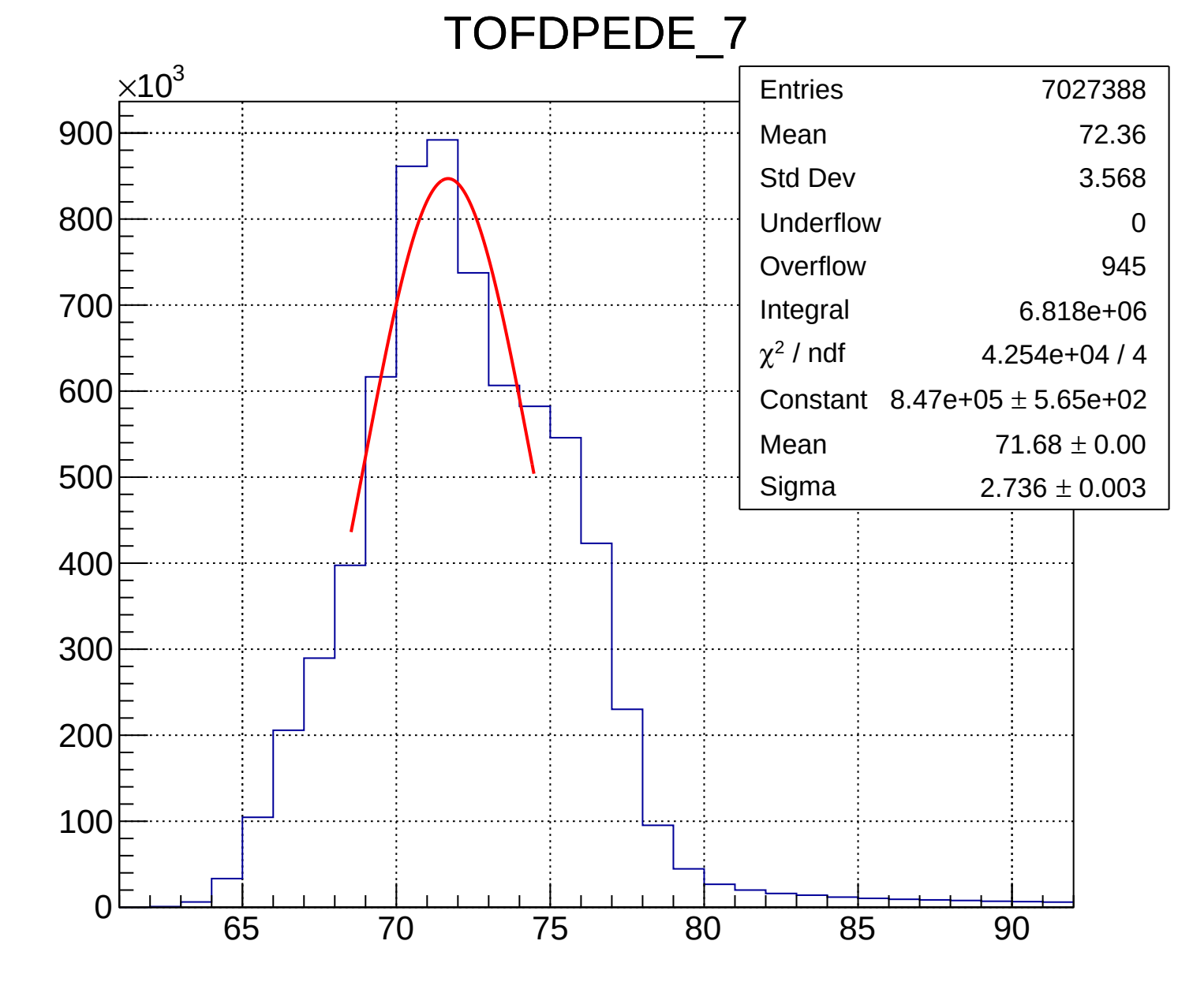

TOFDPEDE_2
×10^3
1600
1400
1200
1000
800
600
400
200
0
95
100
105
110
115
120
Entries 7448452
Mean 103.7
Std Dev 2.377
Underflow 0
Overflow 850
Integral 7.339e+06
χ² / ndf 3.946e+04 / 4
Constant 1.536e+06 ± 8.033e+02
Mean 103.7 ± 0.0
Sigma 1.846 ± 0.001

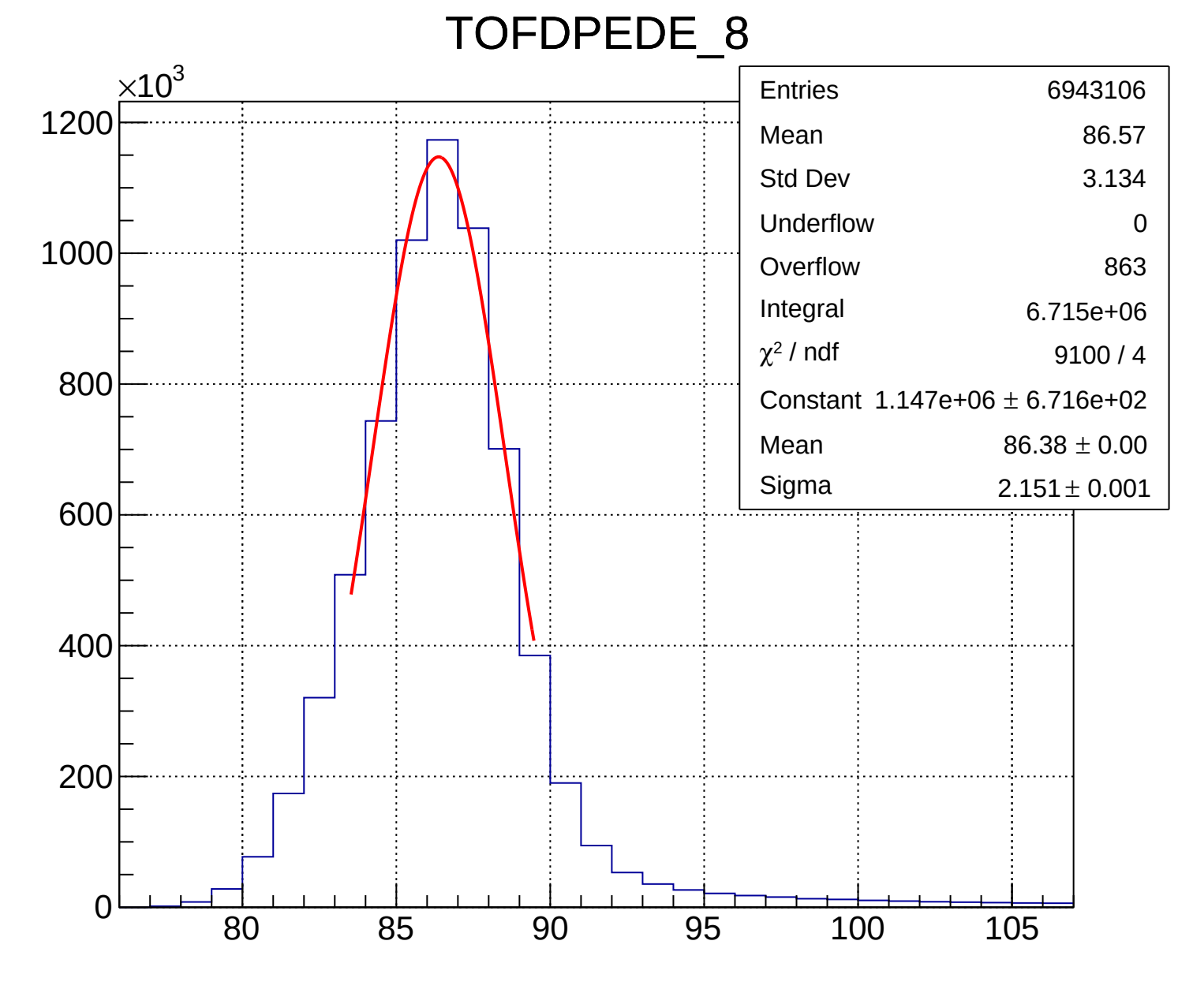

TOFDPEDE_3
×10^3
1400
1200
1000
800
600
400
200
0
65
70
75
80
85
90
Entries 7059828
Mean 73.57
Std Dev 2.476
Underflow 0
Overflow 743
Integral 6.933e+06
χ² / ndf 1.808e+05 / 4
Constant 1.485e+06 ± 8.491e+02
Mean 73.72 ± 0.00
Sigma 1.677 ± 0.001

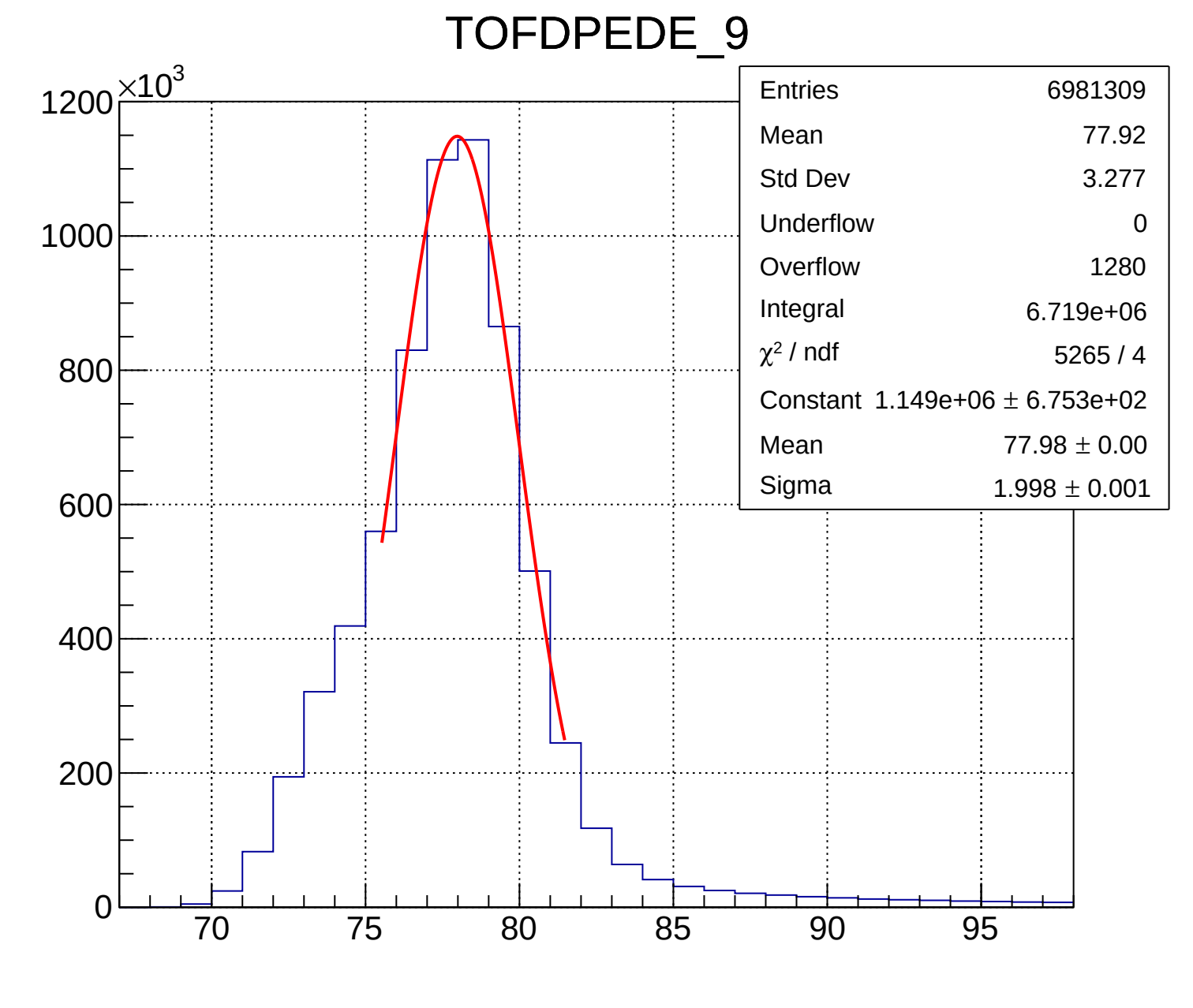

TOFDPEDE_4
×10^3
1400
1200
1000
800
600
400
200
0
80
85
90
95
100
105
110
Entries 6891527
Mean 90.93
Std Dev 2.522
Underflow 0
Overflow 1119
Integral 6.734e+06
χ² / ndf 4.19e+04 / 4
Constant 1.471e+06 ± 7.982e+02
Mean 90.95 ± 0.00
Sigma 1.653 ± 0.001

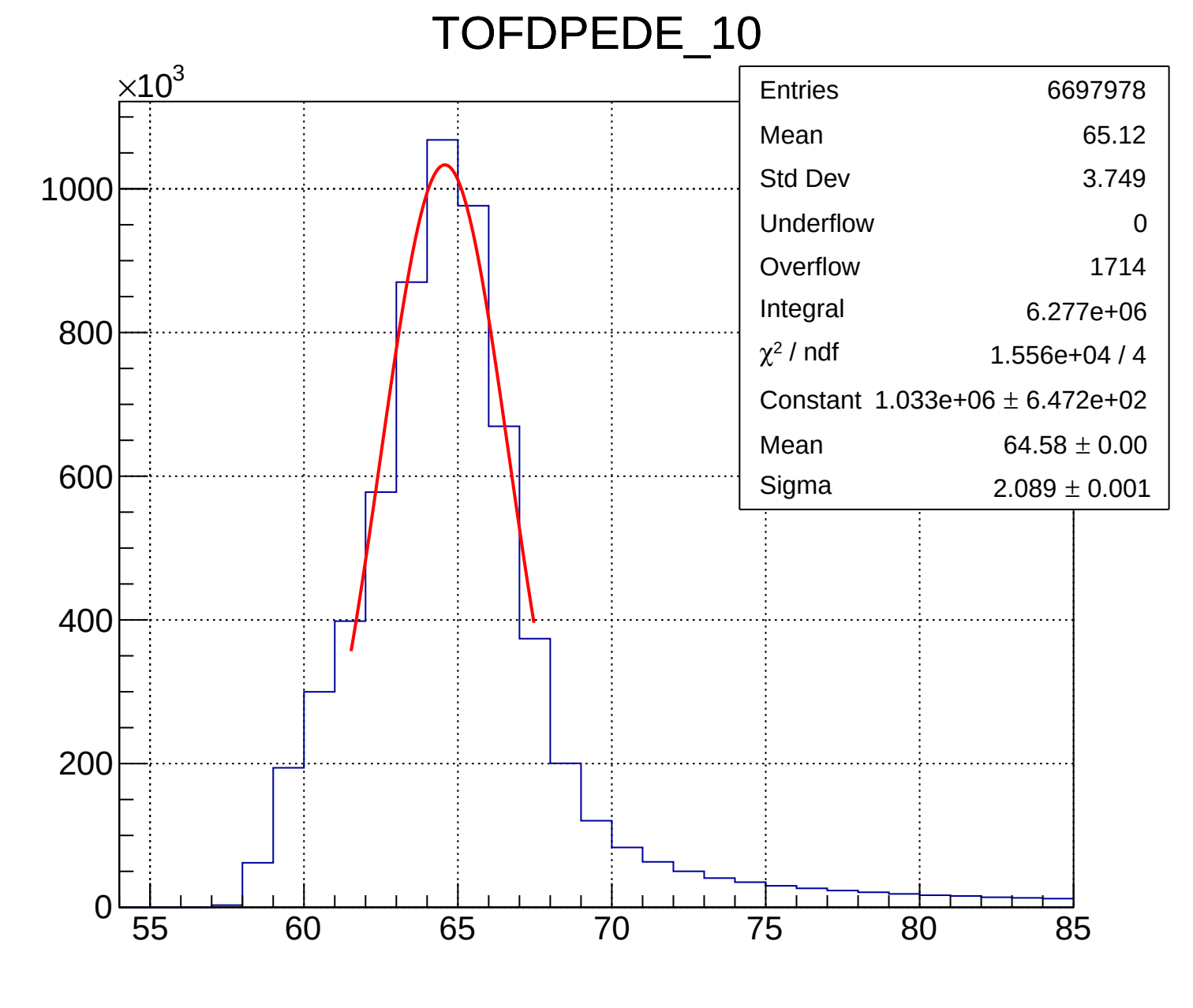

TOFDPEDE_5
×10^3
1600
1400
1200
1000
800
600
400
200
0
70
75
80
85
90
95
100
Entries 6726215
Mean 79.65
Std Dev 2.492
Underflow 0
Overflow 877
Integral 6.557e+06
χ² / ndf 1.361e+05 / 4
Constant 1.489e+06 ± 8.397e+02
Mean 79.49 ± 0.00
Sigma 1.63 ± 0.00

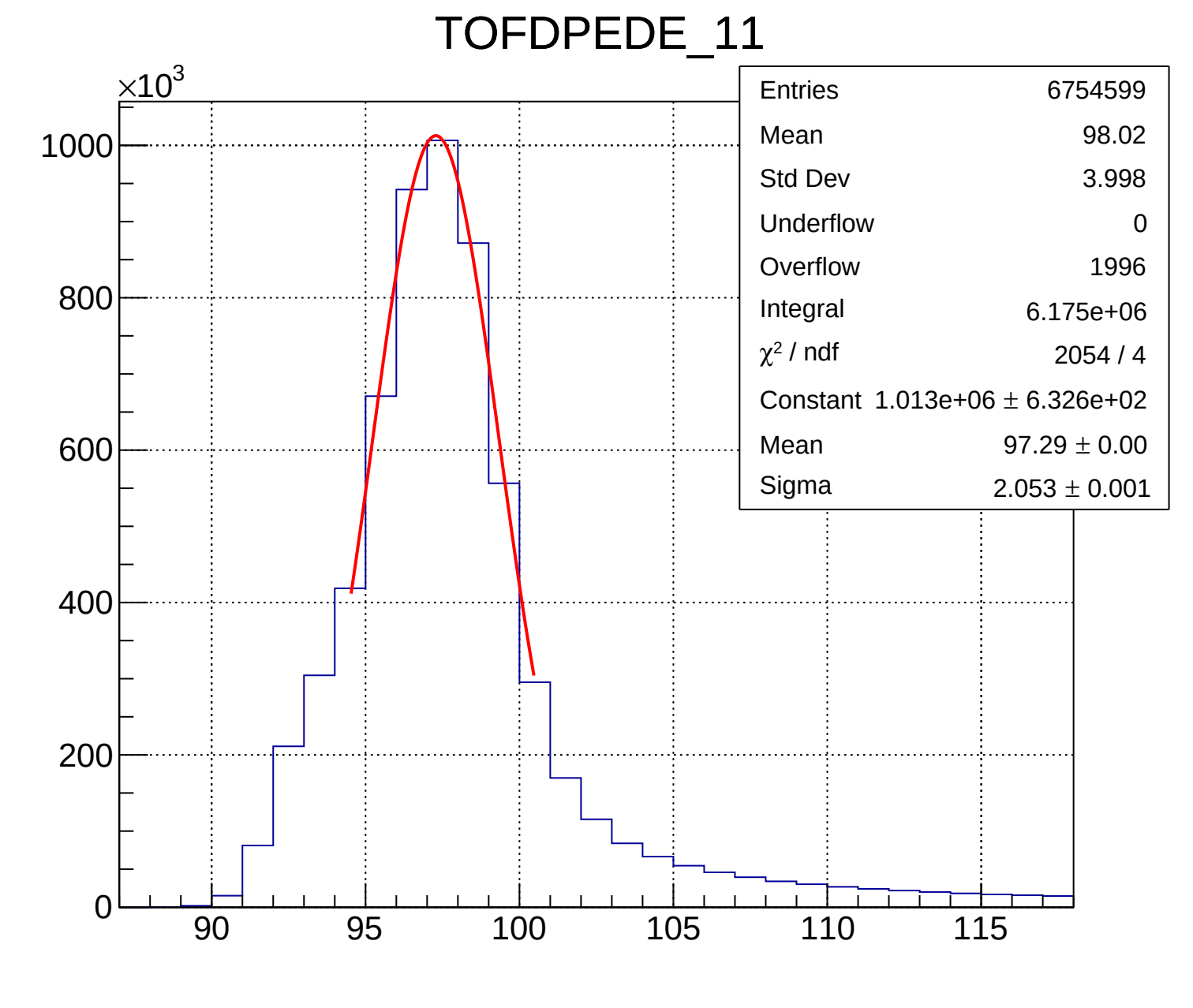

TOFDPEDE_6
×10^3
1200
1000
800
600
400
200
0
55
60
65
70
75
80
85
Entries 6735109
Mean 65.87
Std Dev 2.938
Underflow 0
Overflow 2109
Integral 6.521e+06
χ² / ndf 4.865e+04 / 4
Constant 1.18e+06 ± 6.95e+02
Mean 65.83 ± 0.00
Sigma 2.039 ± 0.001

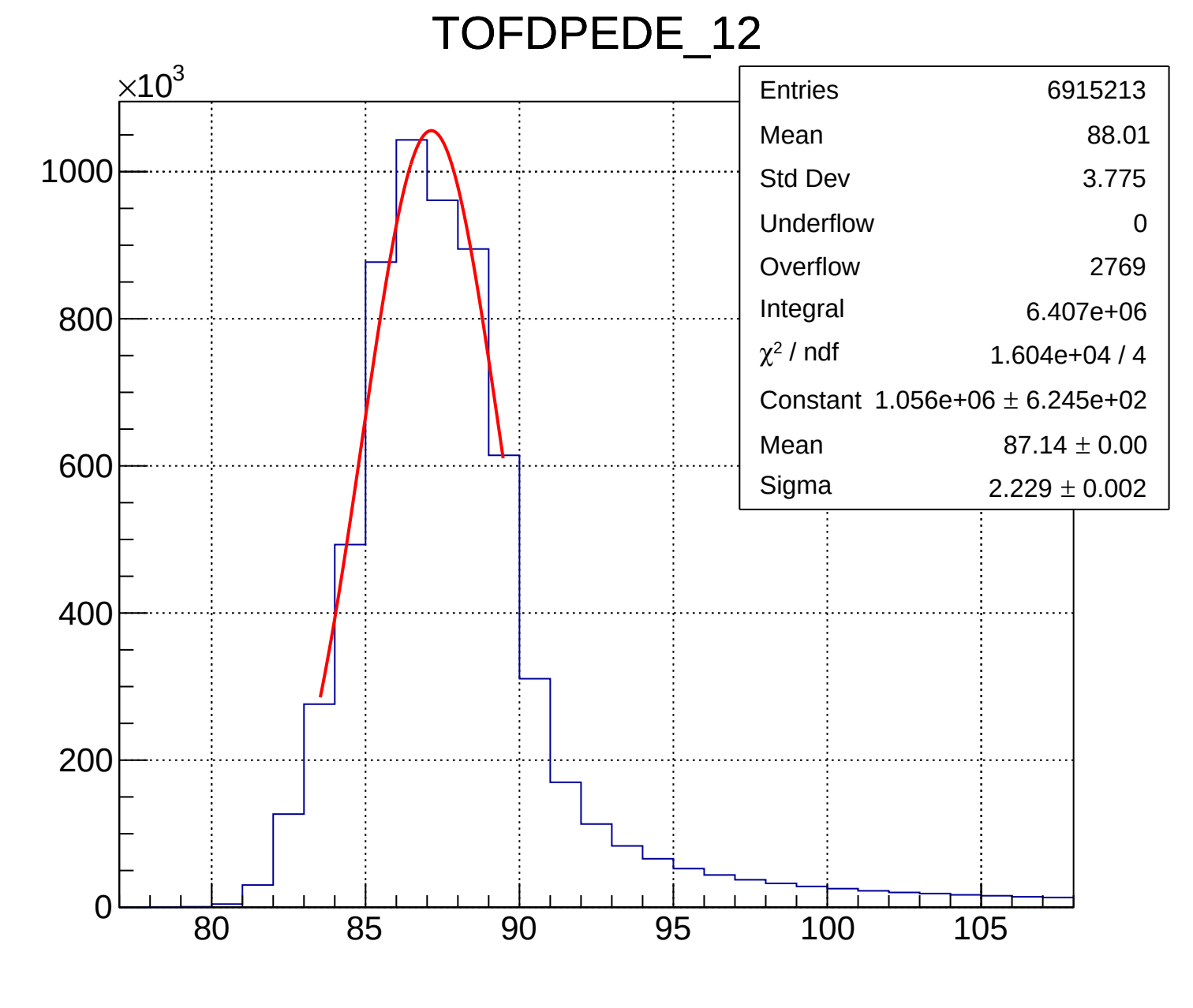

TOFDPEDE_7
×10^3
900
800
700
600
500
400
300
200
100
0
65
70
75
80
85
90
Entries 7027388
Mean 72.36
Std Dev 3.568
Underflow 0
Overflow 945
Integral 6.818e+06
χ² / ndf 4.254e+04 / 4
Constant 8.47e+05 ± 5.65e+02
Mean 71.68 ± 0.00
Sigma 2.736 ± 0.003

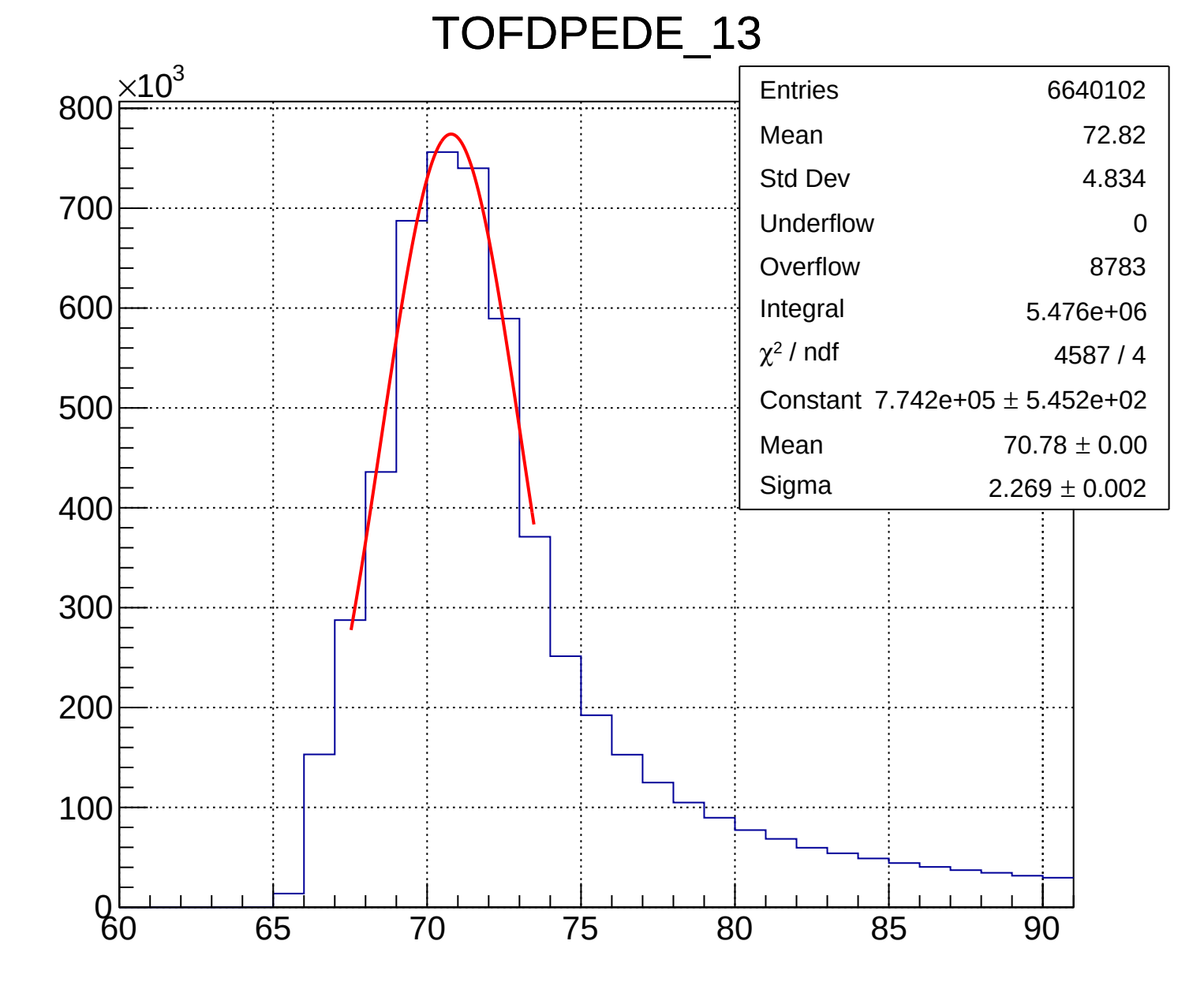

TOFDPEDE_8
×10^3
1200
1000
800
600
400
200
0
80
85
90
95
100
105
Entries 6943106
Mean 86.57
Std Dev 3.134
Underflow 0
Overflow 863
Integral 6.715e+06
χ² / ndf 9100 / 4
Constant 1.147e+06 ± 6.716e+02
Mean 86.38 ± 0.00
Sigma 2.151 ± 0.001

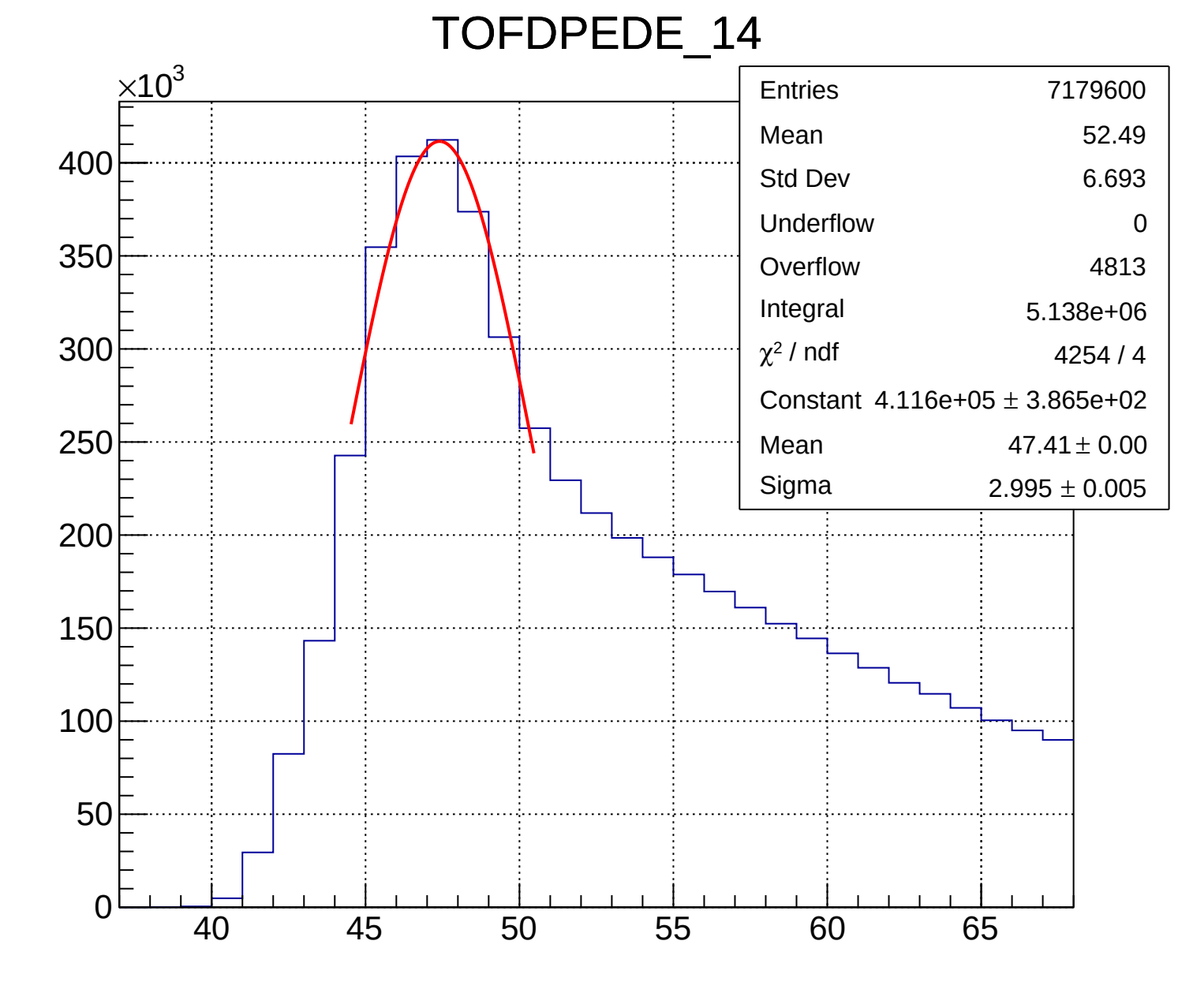

TOFDPEDE_9
×10^3
1200
1000
800
600
400
200
0
70
75
80
85
90
95
Entries 6981309
Mean 77.92
Std Dev 3.277
Underflow 0
Overflow 1280
Integral 6.719e+06
χ² / ndf 5265 / 4
Constant 1.149e+06 ± 6.753e+02
Mean 77.98 ± 0.00
Sigma 1.998 ± 0.001

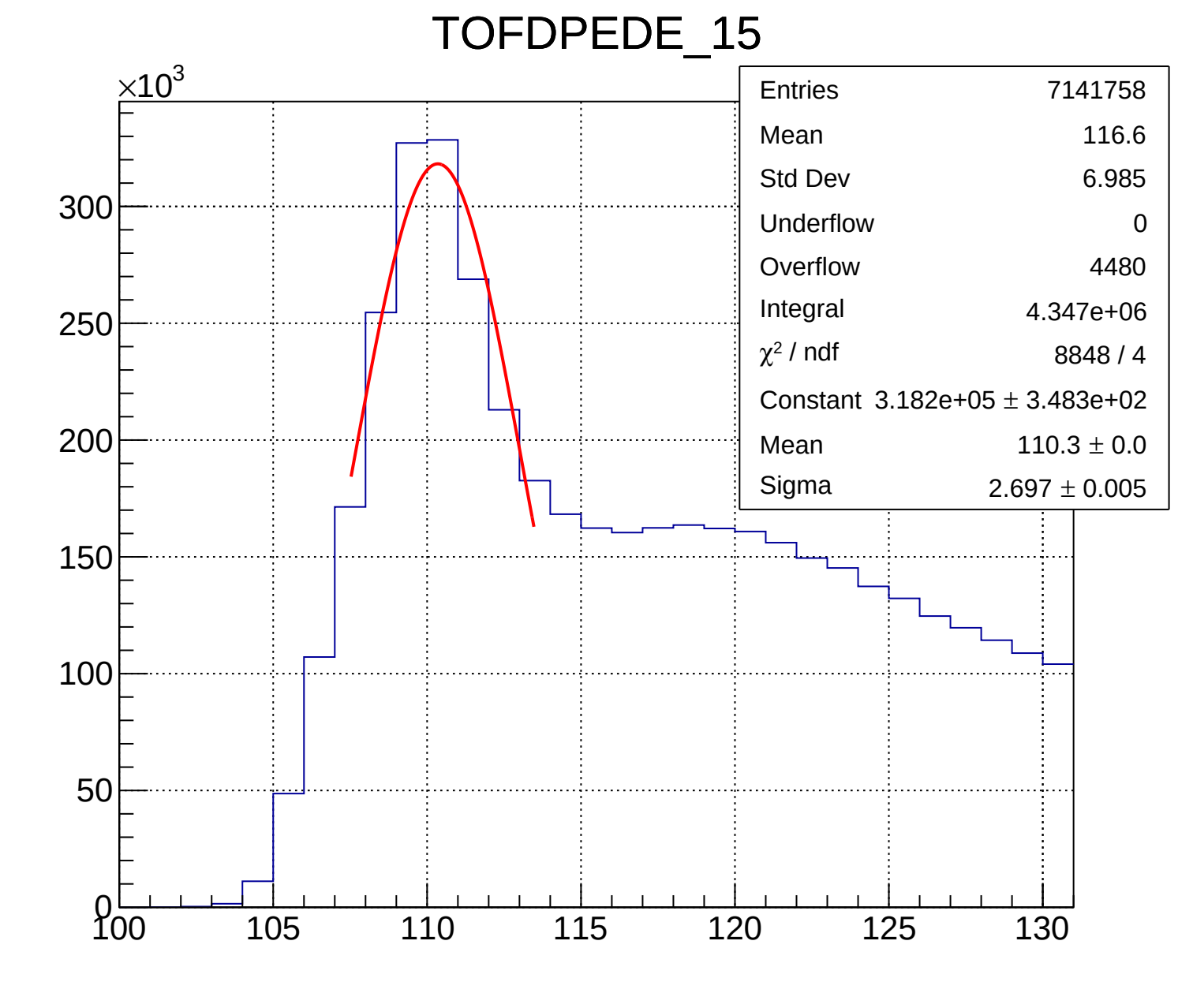

TOFDPEDE_10
×10^3
1000
800
600
400
200
0
55
60
65
70
75
80
85
Entries 6697978
Mean 65.12
Std Dev 3.749
Underflow 0
Overflow 1714
Integral 6.277e+06
χ² / ndf 1.556e+04 / 4
Constant 1.033e+06 ± 6.472e+02
Mean 64.58 ± 0.00
Sigma 2.089 ± 0.001

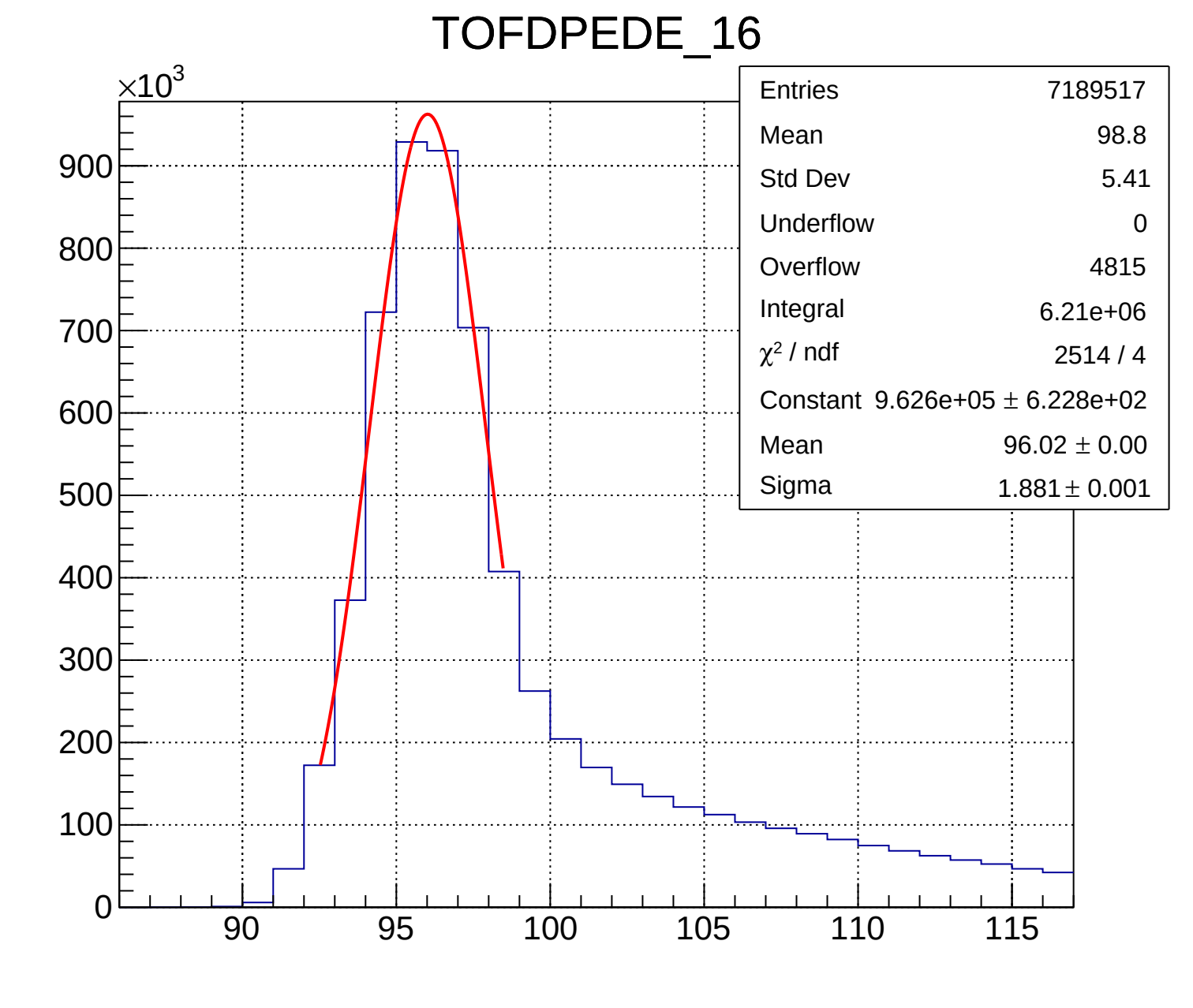

TOFDPEDE_11
×10^3
1000
800
600
400
200
0
90
95
100
105
110
115
Entries 6754599
Mean 98.02
Std Dev 3.998
Underflow 0
Overflow 1996
Integral 6.175e+06
χ² / ndf 2054 / 4
Constant 1.013e+06 ± 6.326e+02
Mean 97.29 ± 0.00
Sigma 2.053 ± 0.001

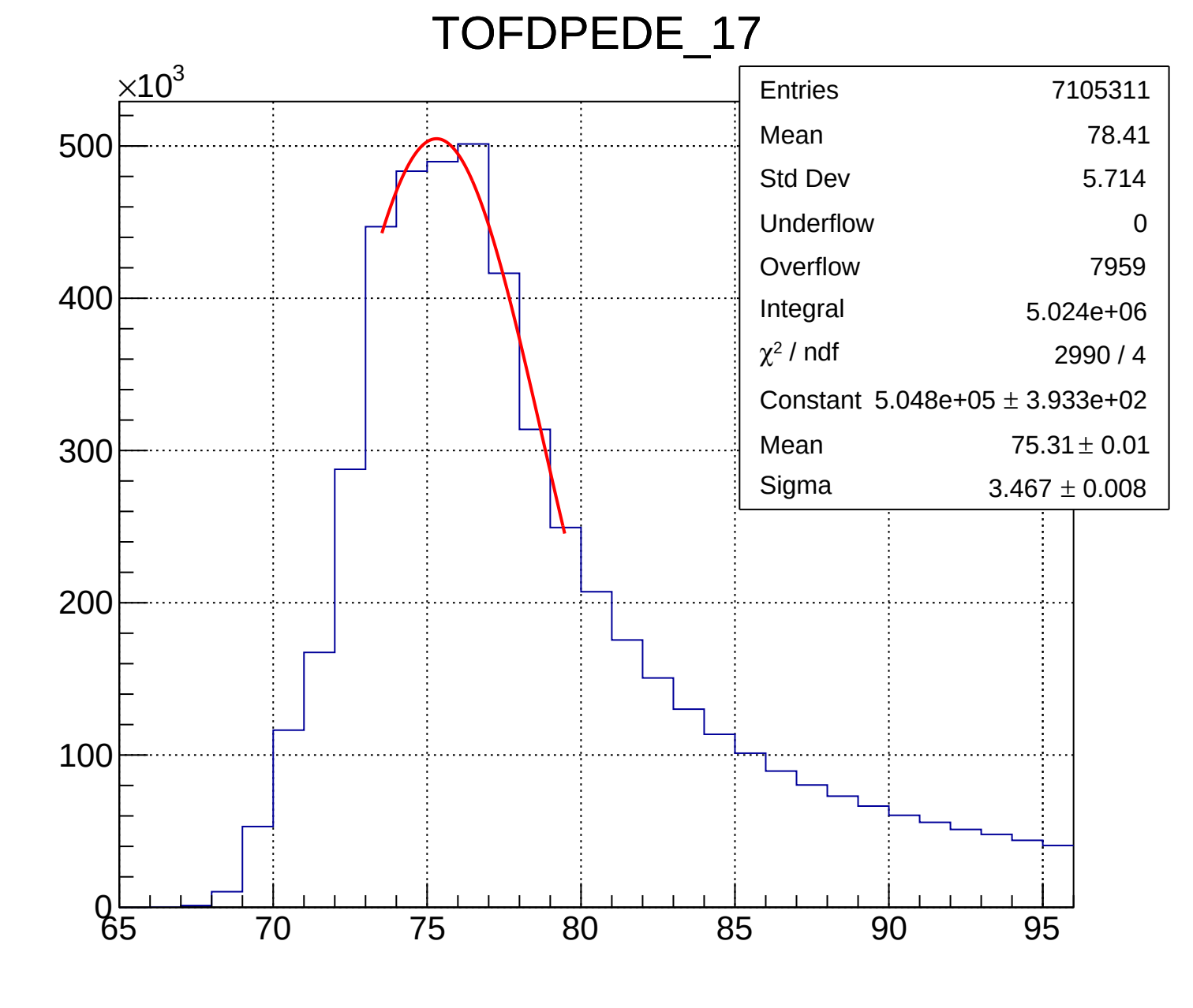

TOFDPEDE_12
×10^3
1000
800
600
400
200
0
80
85
90
95
100
105
Entries 6915213
Mean 88.01
Std Dev 3.775
Underflow 0
Overflow 2769
Integral 6.407e+06
χ² / ndf 1.604e+04 / 4
Constant 1.056e+06 ± 6.245e+02
Mean 87.14 ± 0.00
Sigma 2.229 ± 0.002

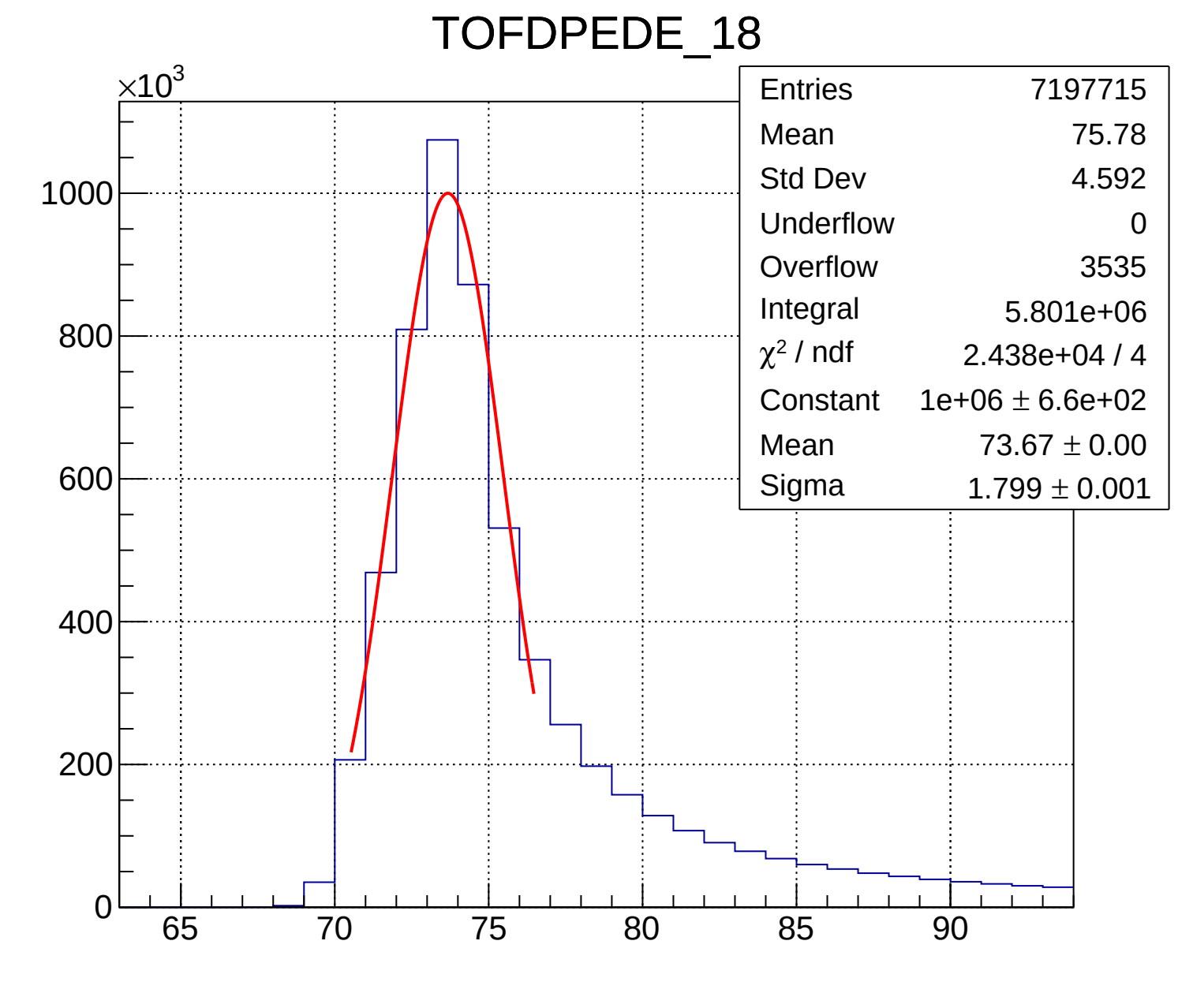

TOFDPEDE_13
×10^3
800
700
600
500
400
300
200
100
0
60
65
70
75
80
85
90
Entries 6640102
Mean 72.82
Std Dev 4.834
Underflow 0
Overflow 8783
Integral 5.476e+06
χ² / ndf 4587 / 4
Constant 7.742e+05 ± 5.452e+02
Mean 70.78 ± 0.00
Sigma 2.269 ± 0.002

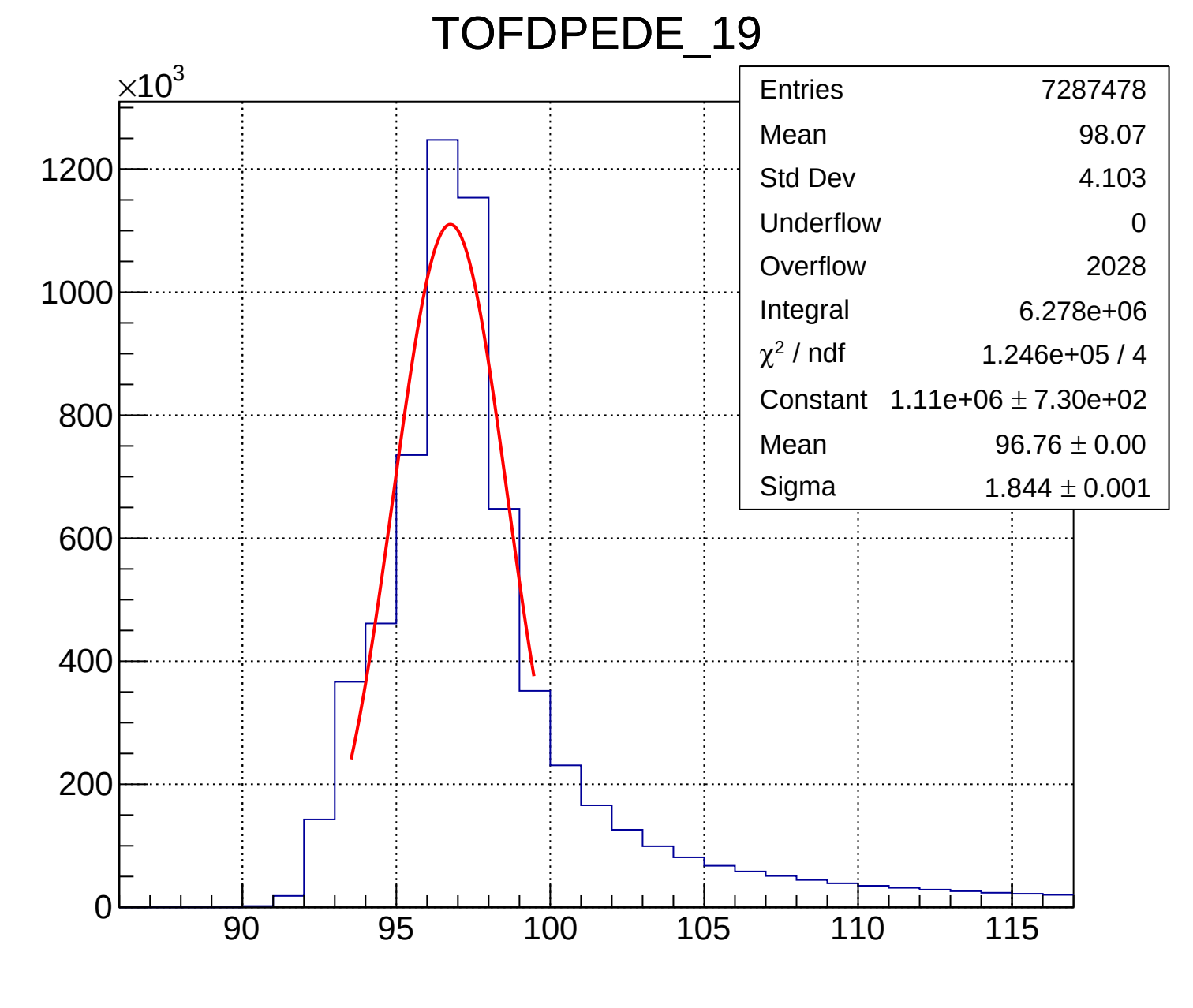

TOFDPEDE_14
×10^3
400
350
300
250
200
150
100
50
0
40
45
50
55
60
65
Entries 7179600
Mean 52.49
Std Dev 6.693
Underflow 0
Overflow 4813
Integral 5.138e+06
χ² / ndf 4254 / 4
Constant 4.116e+05 ± 3.865e+02
Mean 47.41 ± 0.00
Sigma 2.995 ± 0.005

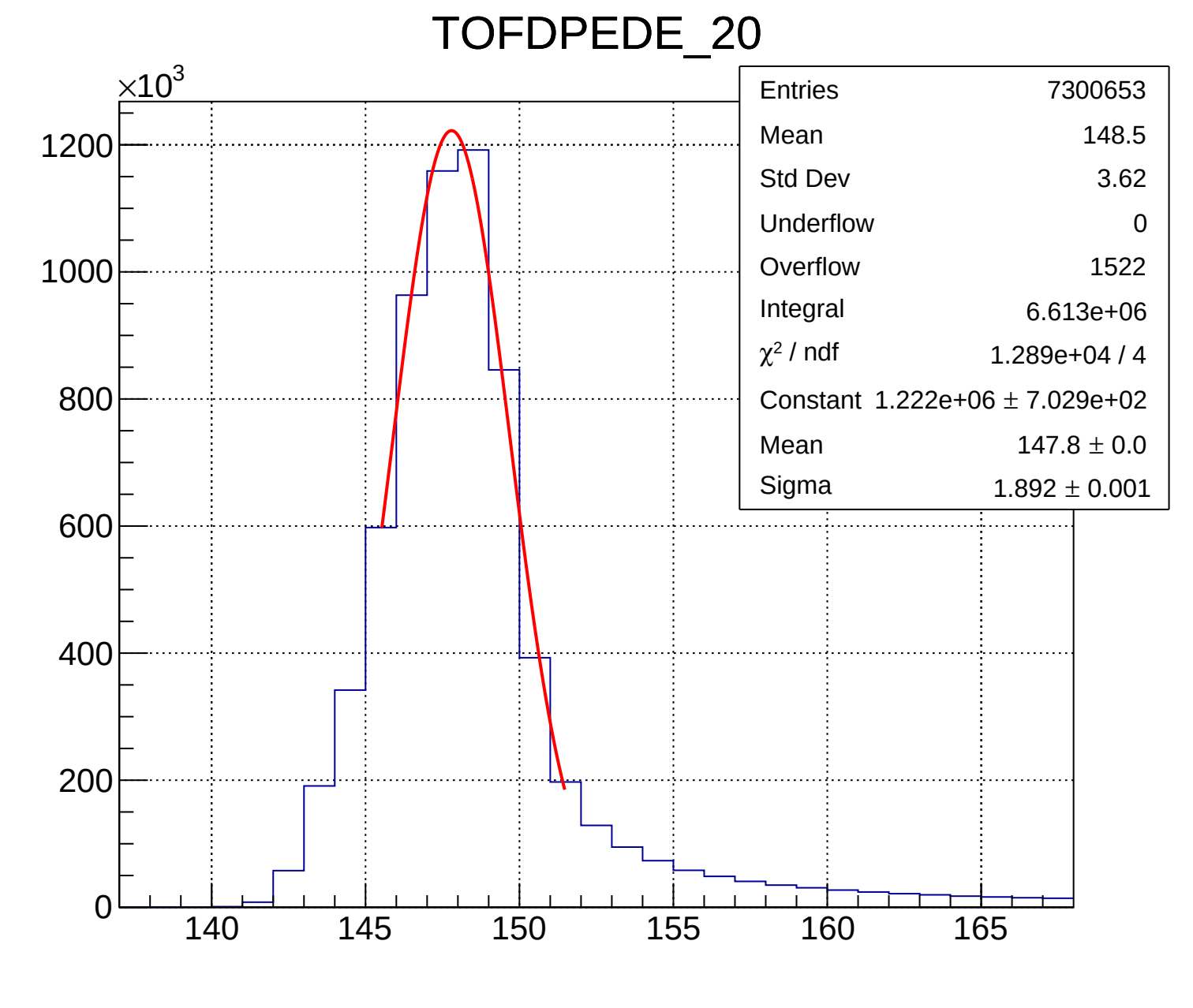

TOFDPEDE_15
×10^3
300
250
200
150
100
50
0
100
105
110
115
120
125
130
Entries 7141758
Mean 116.6
Std Dev 6.985
Underflow 0
Overflow 4480
Integral 4.347e+06
χ² / ndf 8848 / 4
Constant 3.182e+05 ± 3.483e+02
Mean 110.3 ± 0.0
Sigma 2.697 ± 0.005

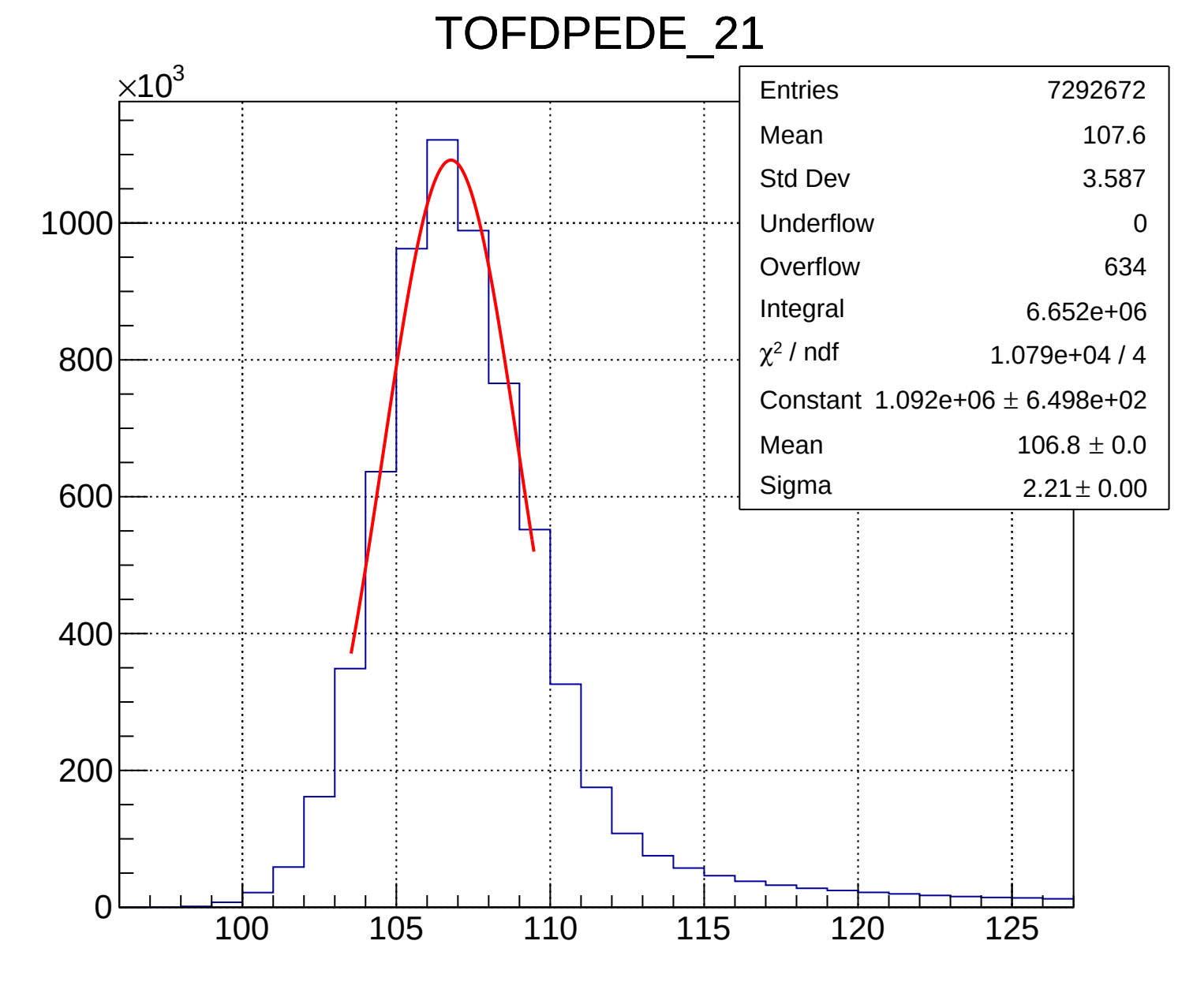

TOFDPEDE_16
×10^3
900
800
700
600
500
400
300
200
100
0
90
95
100
105
110
115
Entries 7189517
Mean 98.8
Std Dev 5.41
Underflow 0
Overflow 4815
Integral 6.21e+06
χ² / ndf 2514 / 4
Constant 9.626e+05 ± 6.228e+02
Mean 96.02 ± 0.00
Sigma 1.881 ± 0.001

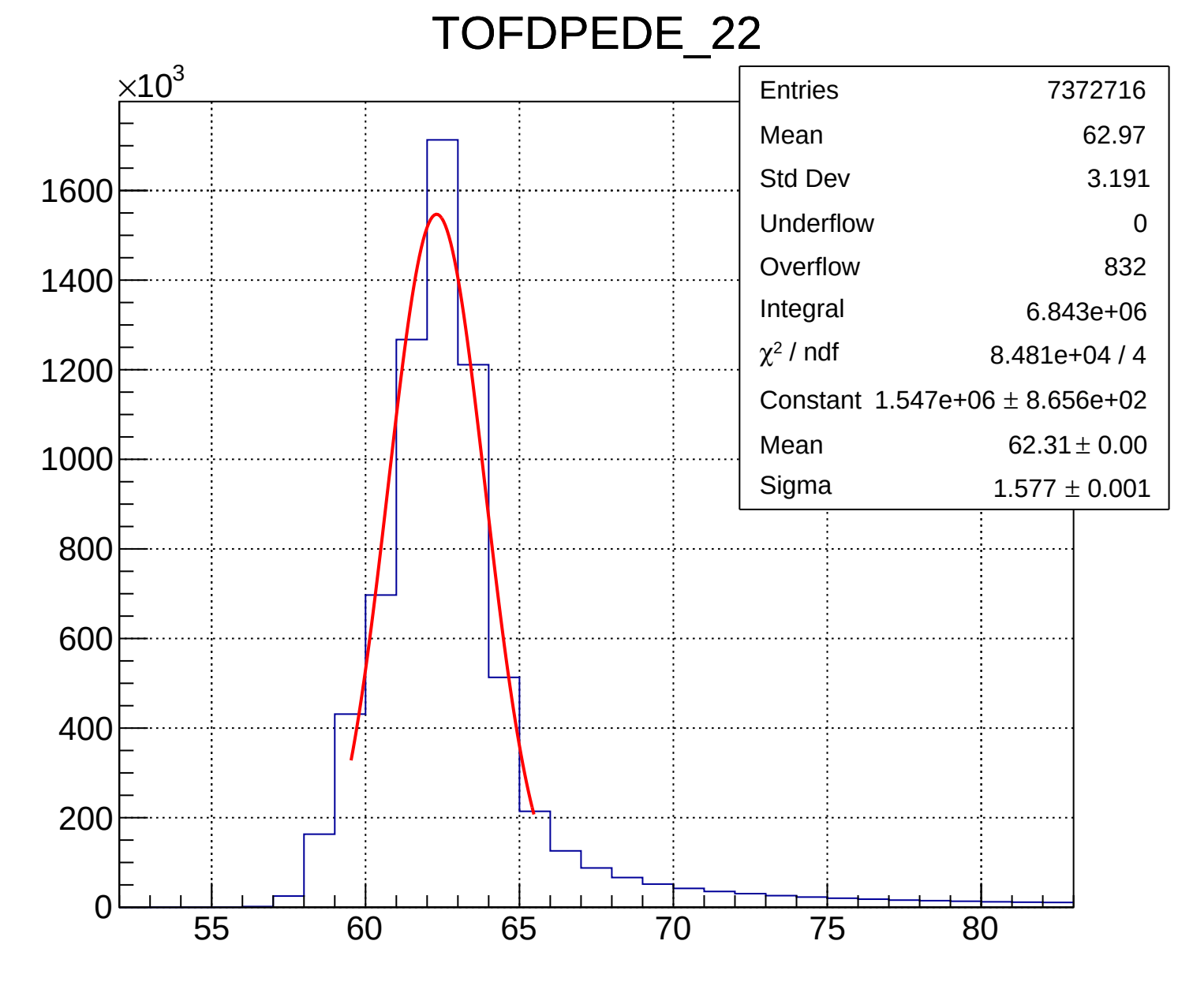

TOFDPEDE_17
×10^3
500
400
300
200
100
0
65
70
75
80
85
90
95
Entries 7105311
Mean 78.41
Std Dev 5.714
Underflow 0
Overflow 7959
Integral 5.024e+06
χ² / ndf 2990 / 4
Constant 5.048e+05 ± 3.933e+02
Mean 75.31 ± 0.01
Sigma 3.467 ± 0.008

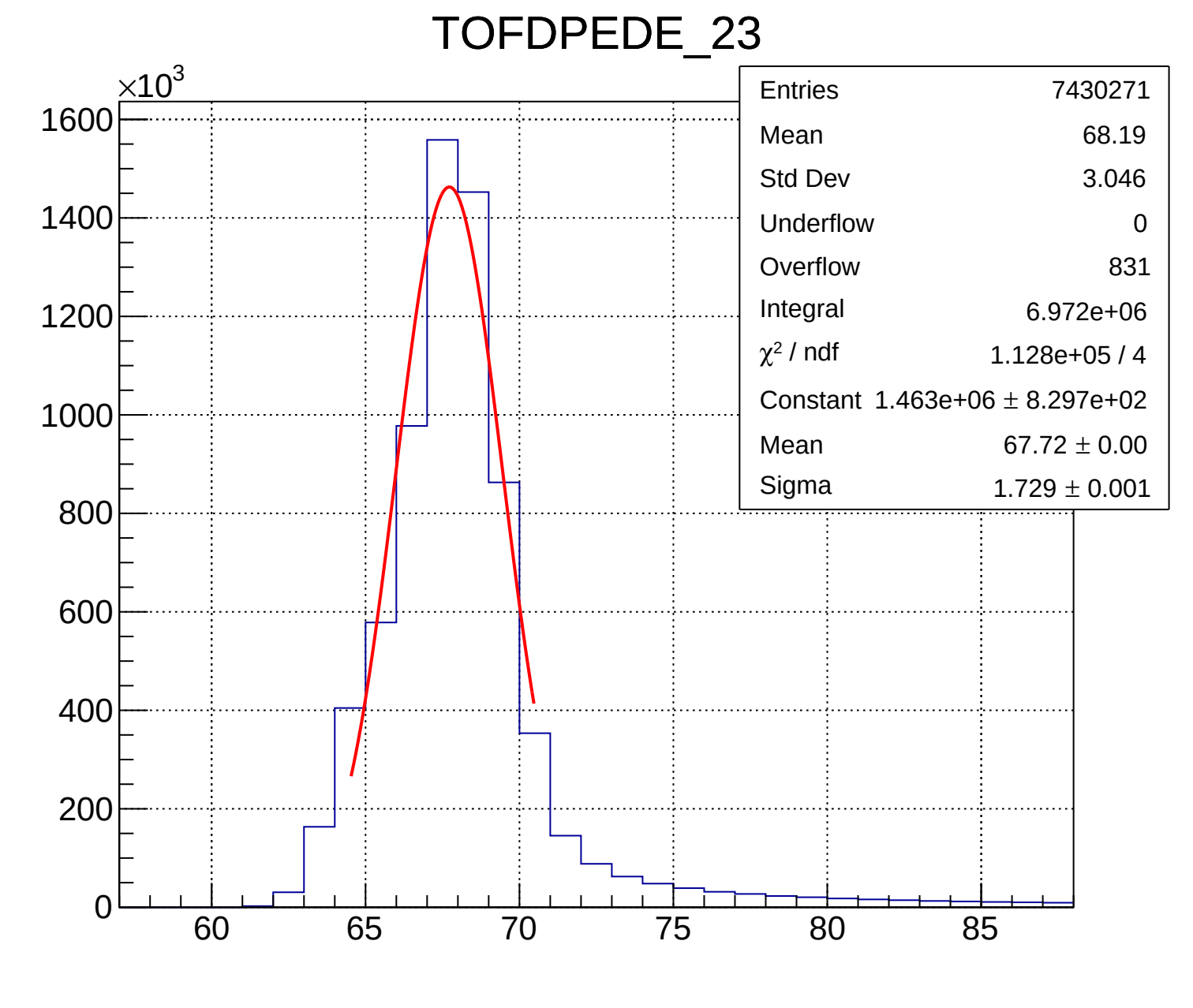

TOFDPEDE_18
×10^3
1000
800
600
400
200
0
65
70
75
80
85
90
Entries 7197715
Mean 75.78
Std Dev 4.592
Underflow 0
Overflow 3535
Integral 5.801e+06
χ² / ndf 2.438e+04 / 4
Constant 1e+06 ± 6.6e+02
Mean 73.67 ± 0.00
Sigma 1.799 ± 0.001

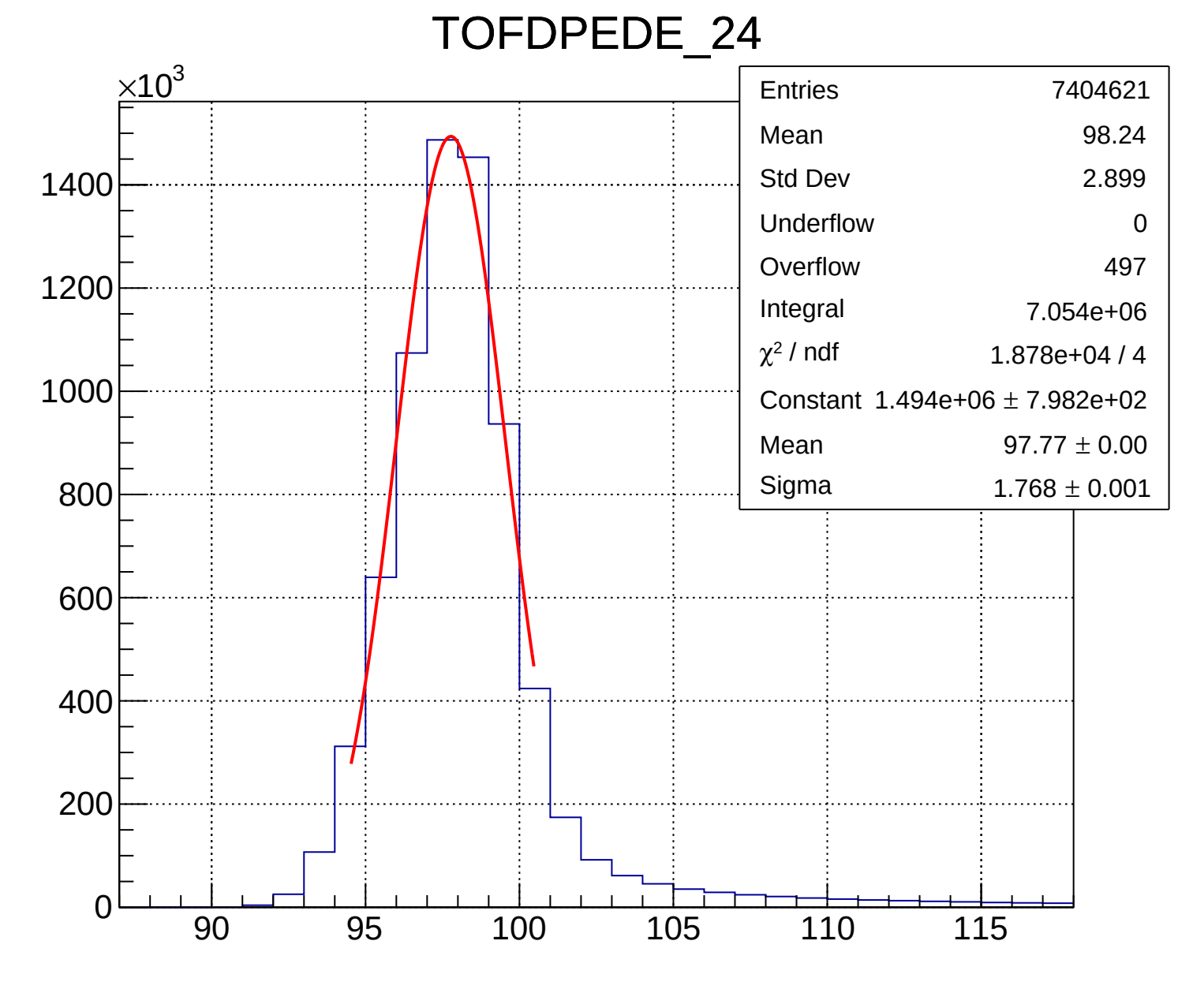

TOFDPEDE_19
×10^3
1200
1000
800
600
400
200
0
90
95
100
105
110
115
Entries 7287478
Mean 98.07
Std Dev 4.103
Underflow 0
Overflow 2028
Integral 6.278e+06
χ² / ndf 1.246e+05 / 4
Constant 1.11e+06 ± 7.30e+02
Mean 96.76 ± 0.00
Sigma 1.844 ± 0.001

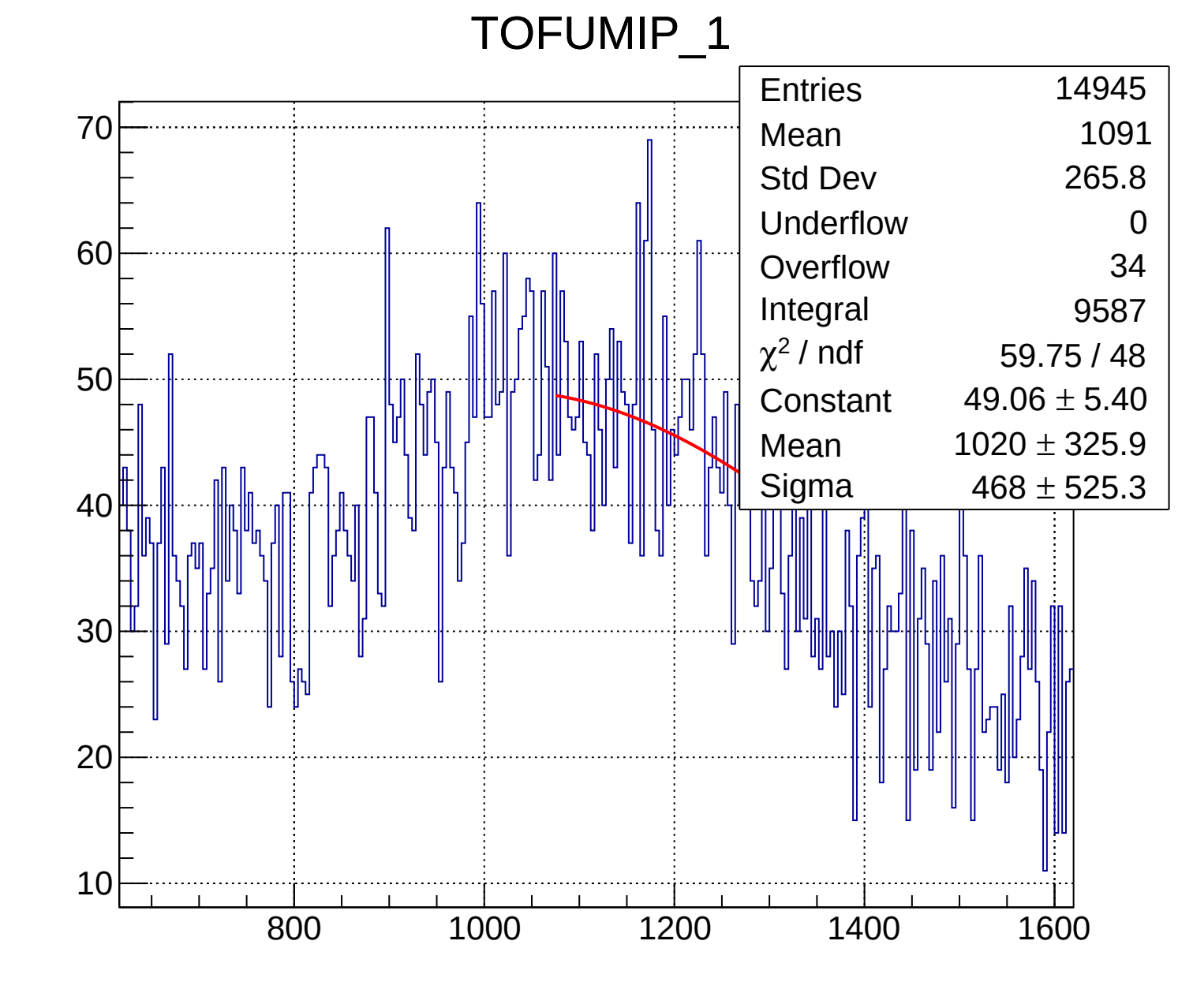

TOFDPEDE_20
×10^3
1200
1000
800
600
400
200
0
140
145
150
155
160
165
Entries 7300653
Mean 148.5
Std Dev 3.62
Underflow 0
Overflow 1522
Integral 6.613e+06
χ² / ndf 1.289e+04 / 4
Constant 1.222e+06 ± 7.029e+02
Mean 147.8 ± 0.0
Sigma 1.892 ± 0.001

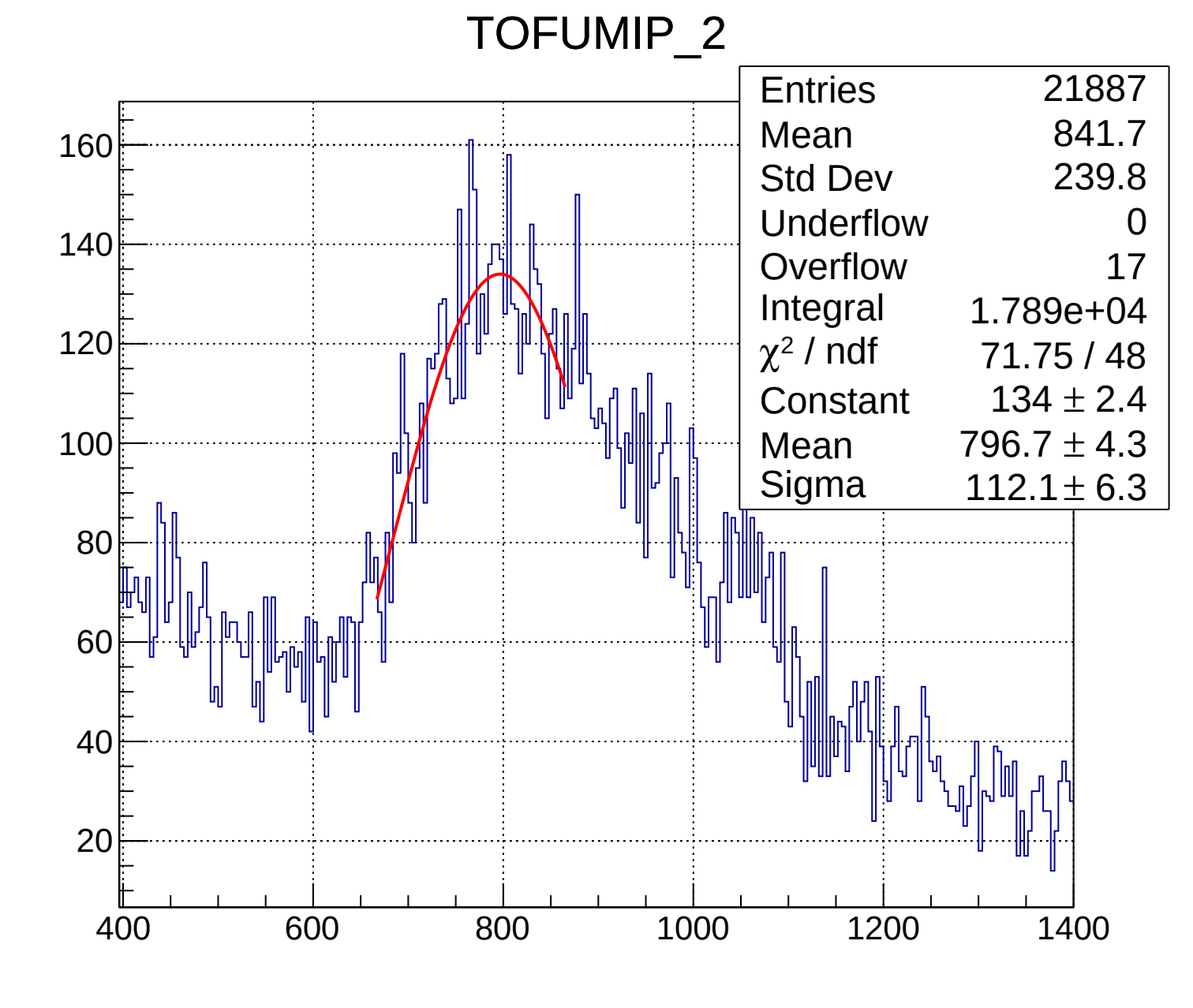

TOFDPEDE_21
×10^3
1000
800
600
400
200
0
100
105
110
115
120
125
Entries 7292672
Mean 107.6
Std Dev 3.587
Underflow 0
Overflow 634
Integral 6.652e+06
χ² / ndf 1.079e+04 / 4
Constant 1.092e+06 ± 6.498e+02
Mean 106.8 ± 0.0
Sigma 2.21 ± 0.00

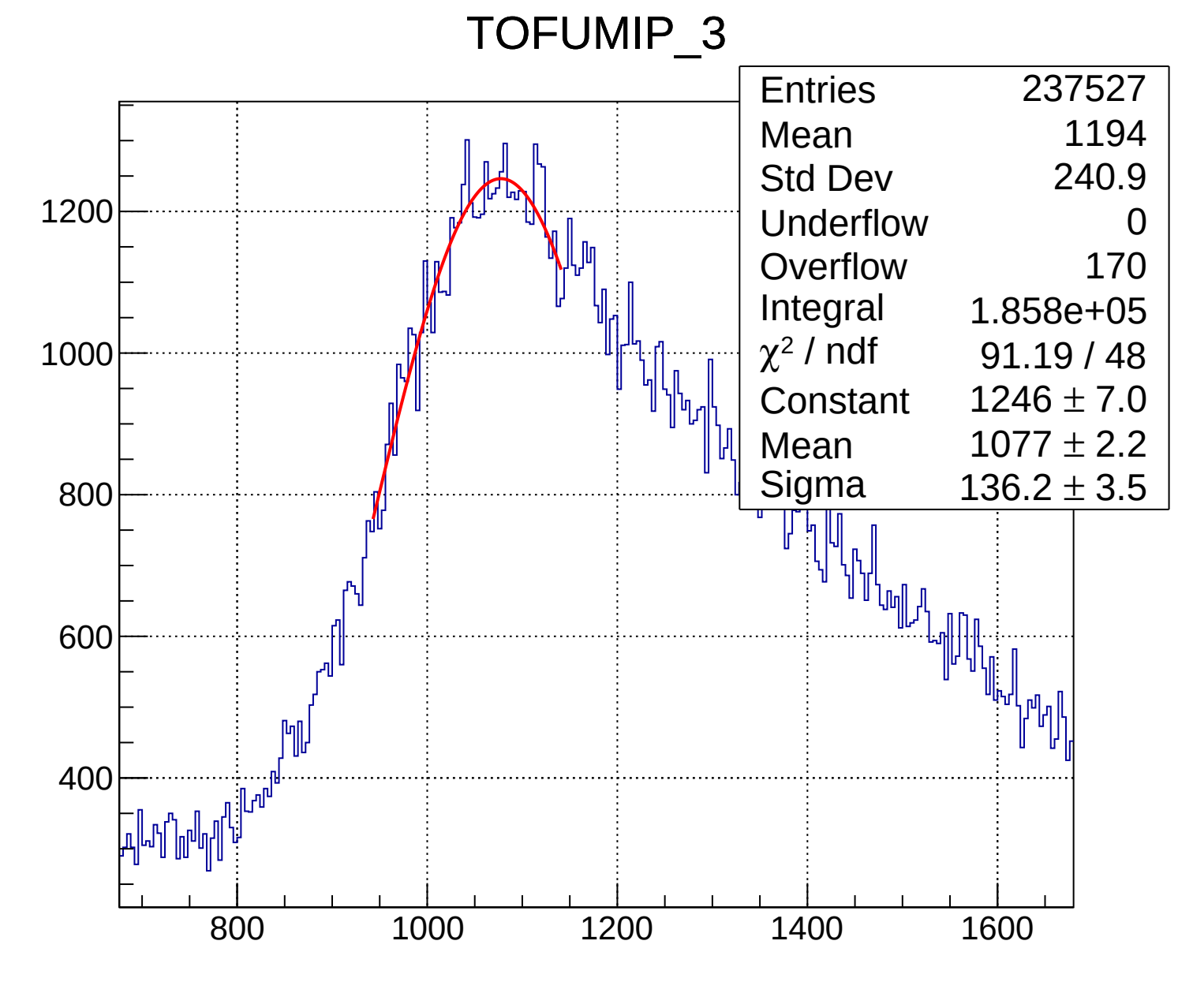

TOFDPEDE_22
×10^3
1600
1400
1200
1000
800
600
400
200
0
55
60
65
70
75
80
Entries 7372716
Mean 62.97
Std Dev 3.191
Underflow 0
Overflow 832
Integral 6.843e+06
χ² / ndf 8.481e+04 / 4
Constant 1.547e+06 ± 8.656e+02
Mean 62.31 ± 0.00
Sigma 1.577 ± 0.001

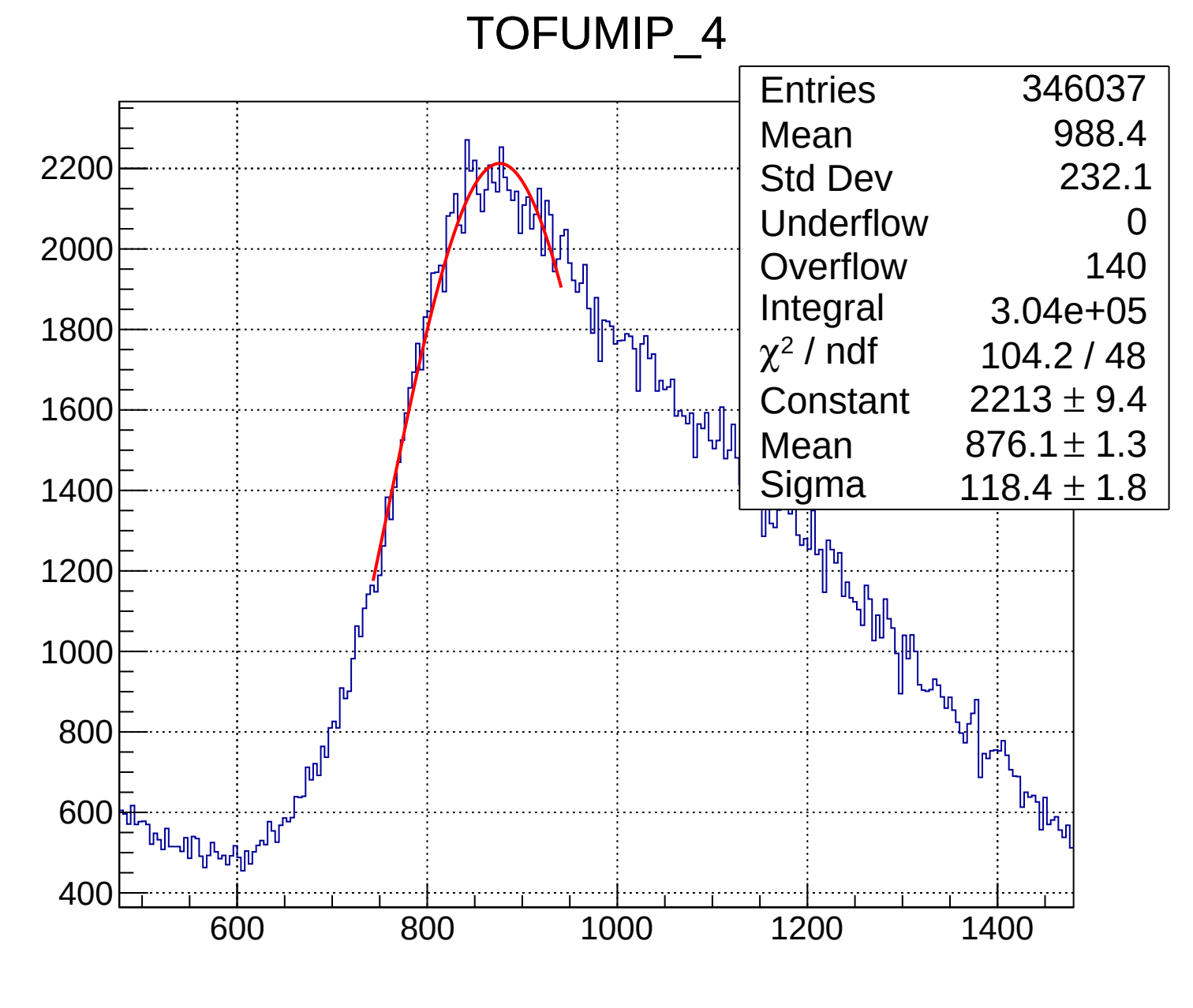

TOFDPEDE_23
×10^3
1600
1400
1200
1000
800
600
400
200
0
60
65
70
75
80
85
Entries 7430271
Mean 68.19
Std Dev 3.046
Underflow 0
Overflow 831
Integral 6.972e+06
χ² / ndf 1.128e+05 / 4
Constant 1.463e+06 ± 8.297e+02
Mean 67.72 ± 0.00
Sigma 1.729 ± 0.001

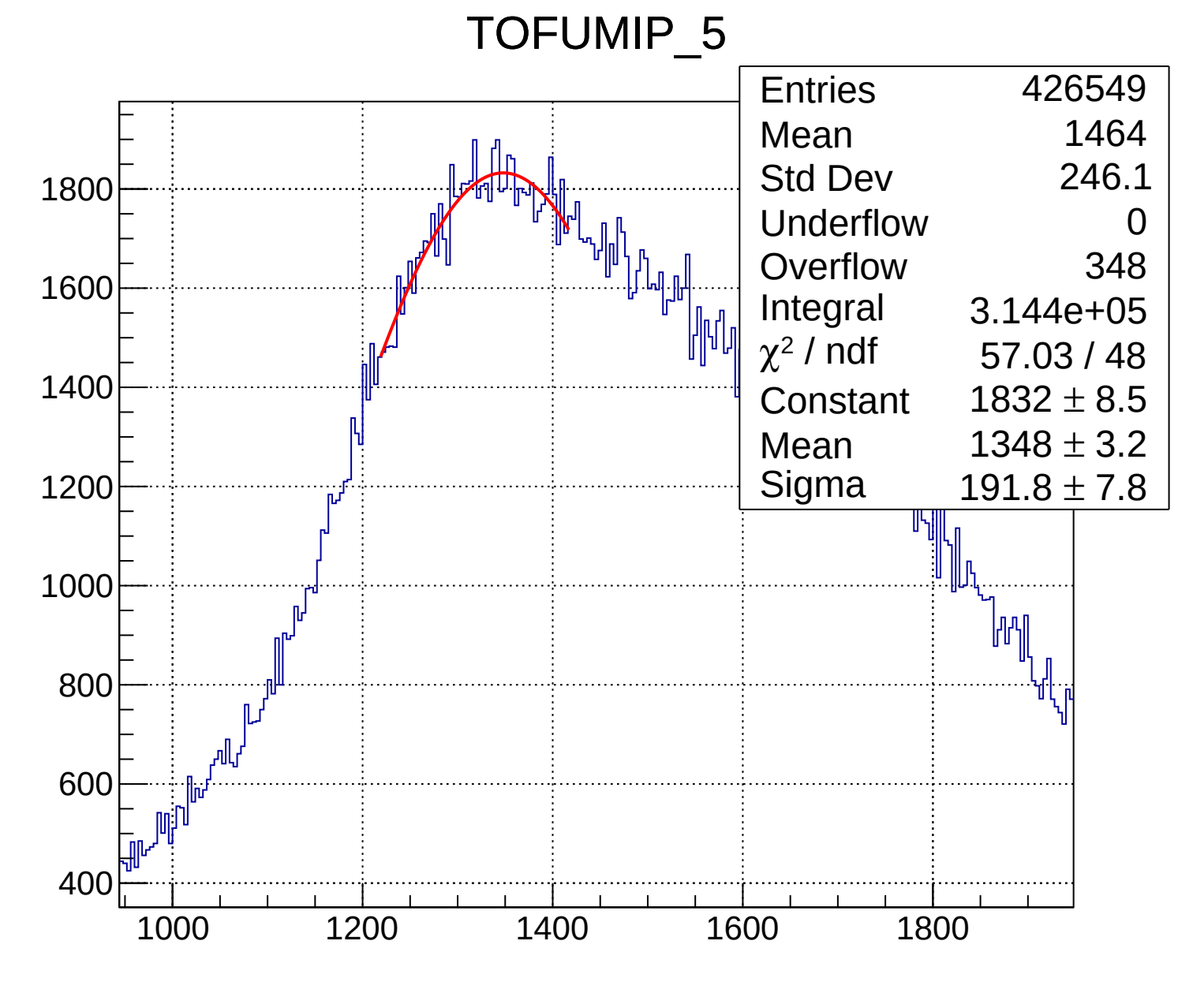

TOFDPEDE_24
×10^3
1400
1200
1000
800
600
400
200
0
90
95
100
105
110
115
Entries 7404621
Mean 98.24
Std Dev 2.899
Underflow 0
Overflow 497
Integral 7.054e+06
χ² / ndf 1.878e+04 / 4
Constant 1.494e+06 ± 7.982e+02
Mean 97.77 ± 0.00
Sigma 1.768 ± 0.001

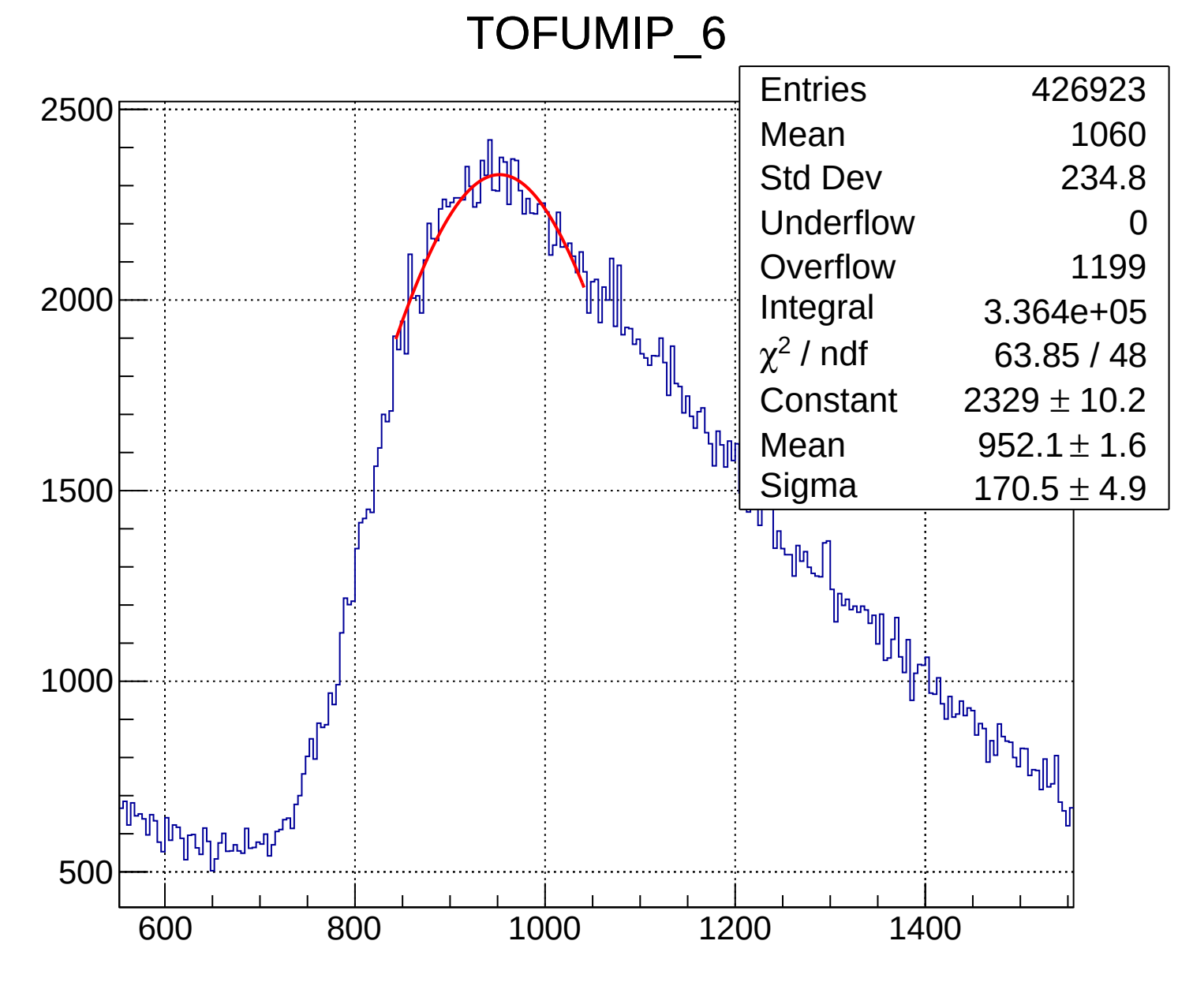

TOFUMIP_1
Entries 14945
Mean 1091
Std Dev 265.8
Underflow 0
Overflow 34
Integral 9587
χ² / ndf 59.75 / 48
Constant 49.06 ± 5.40
Mean 1020 ± 325.9
Sigma 468 ± 525.3
70
60
50
40
30
20
10
800
1000
1200
1400
1600

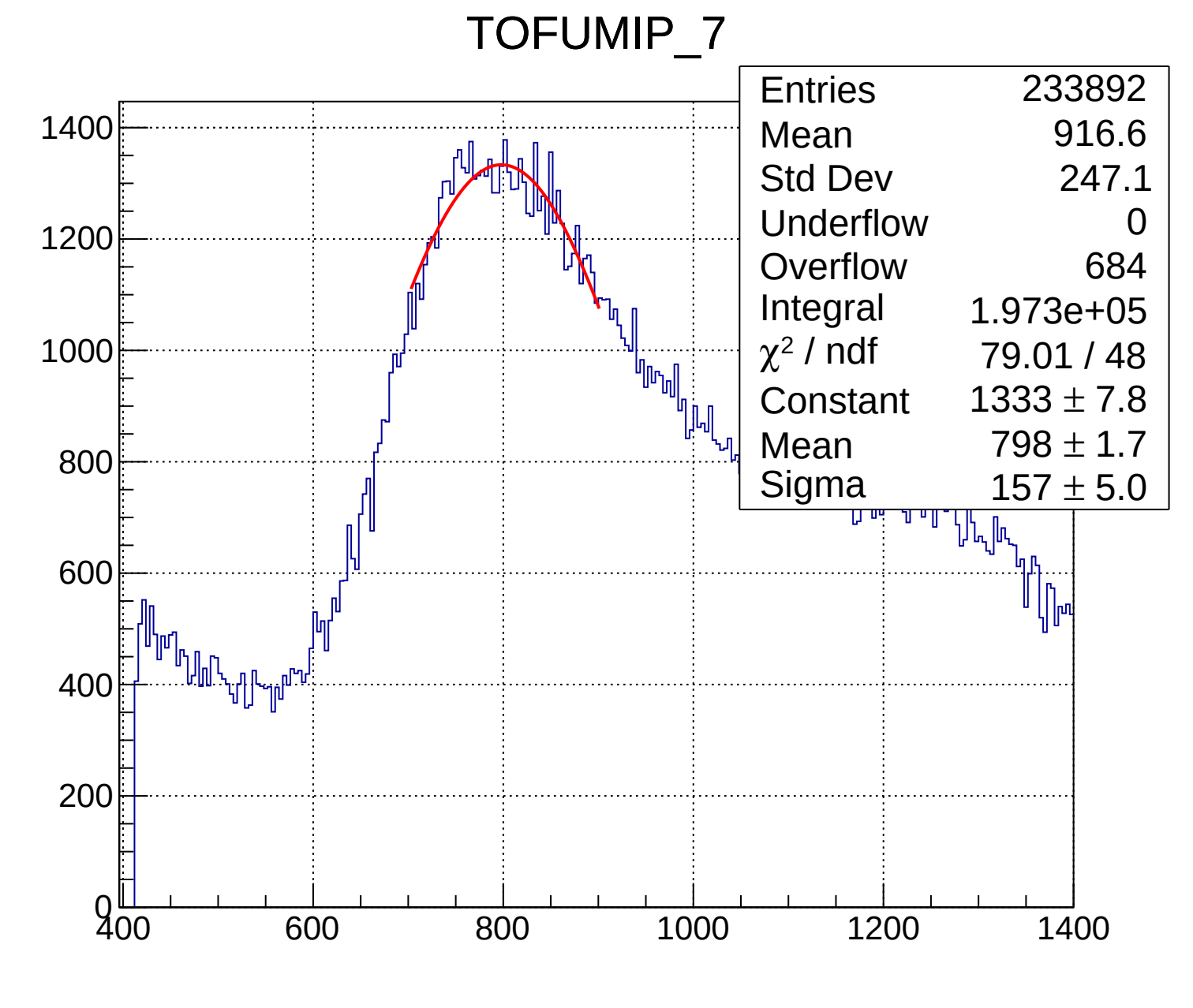

TOFUMIP_2
Entries 21887
Mean 841.7
Std Dev 239.8
Underflow 0
Overflow 17
Integral 1.789e+04
χ² / ndf 71.75 / 48
Constant 134 ± 2.4
Mean 796.7 ± 4.3
Sigma 112.1 ± 6.3
160
140
120
100
80
60
40
20
400
600
800
1000
1200
1400

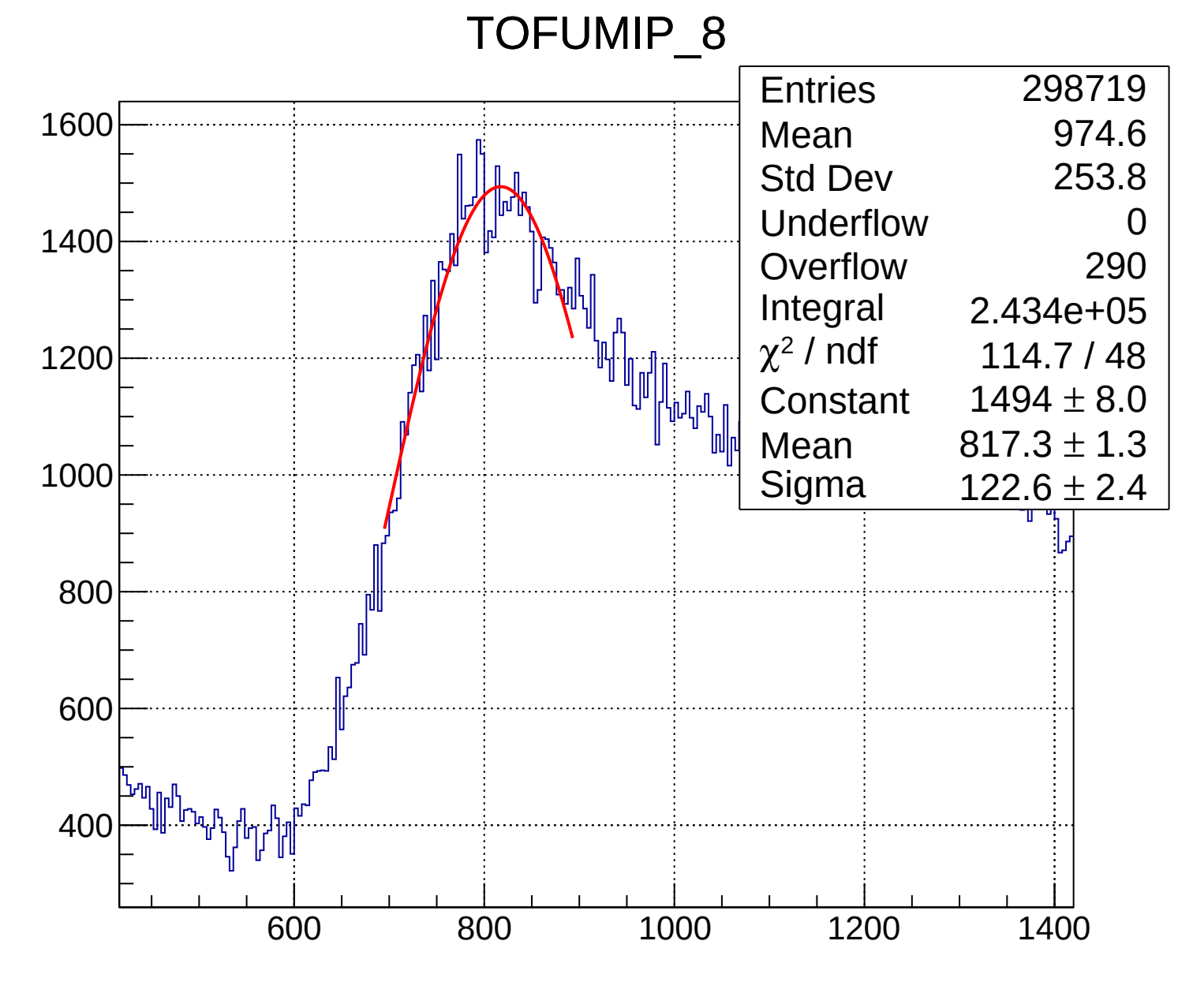

TOFUMIP_3
Entries 237527
Mean 1194
Std Dev 240.9
Underflow 0
Overflow 170
Integral 1.858e+05
χ² / ndf 91.19 / 48
Constant 1246 ± 7.0
Mean 1077 ± 2.2
Sigma 136.2 ± 3.5
1200
1000
800
600
400
800
1000
1200
1400
1600

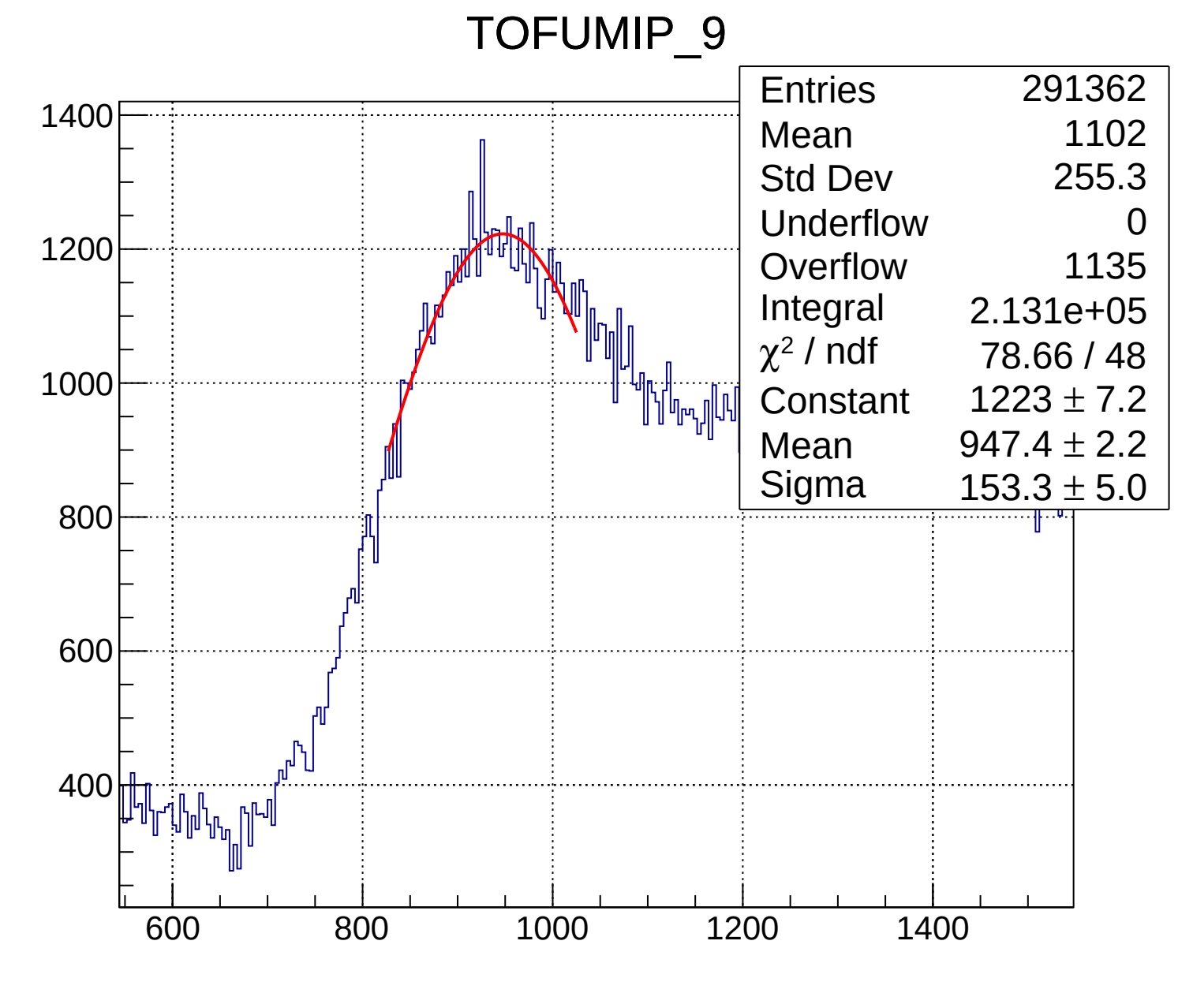

TOFUMIP_4
Entries 346037
Mean 988.4
Std Dev 232.1
Underflow 0
Overflow 140
Integral 3.04e+05
χ² / ndf 104.2 / 48
Constant 2213 ± 9.4
Mean 876.1 ± 1.3
Sigma 118.4 ± 1.8
2200
2000
1800
1600
1400
1200
1000
800
600
400
600
800
1000
1200
1400

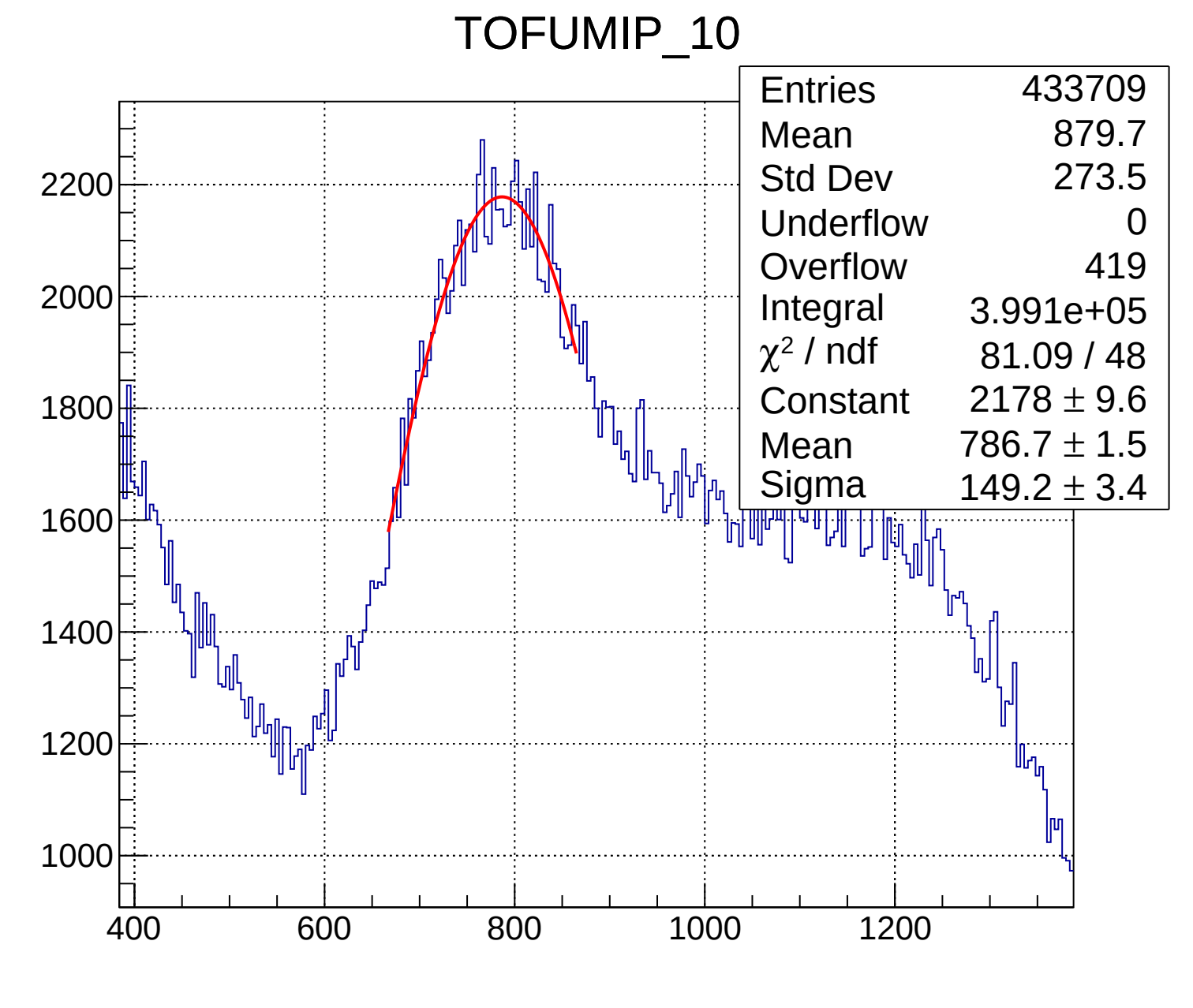

TOFUMIP_5
Entries 426549
Mean 1464
Std Dev 246.1
Underflow 0
Overflow 348
Integral 3.144e+05
χ² / ndf 57.03 / 48
Constant 1832 ± 8.5
Mean 1348 ± 3.2
Sigma 191.8 ± 7.8
1800
1600
1400
1200
1000
800
600
400
1000
1200
1400
1600
1800

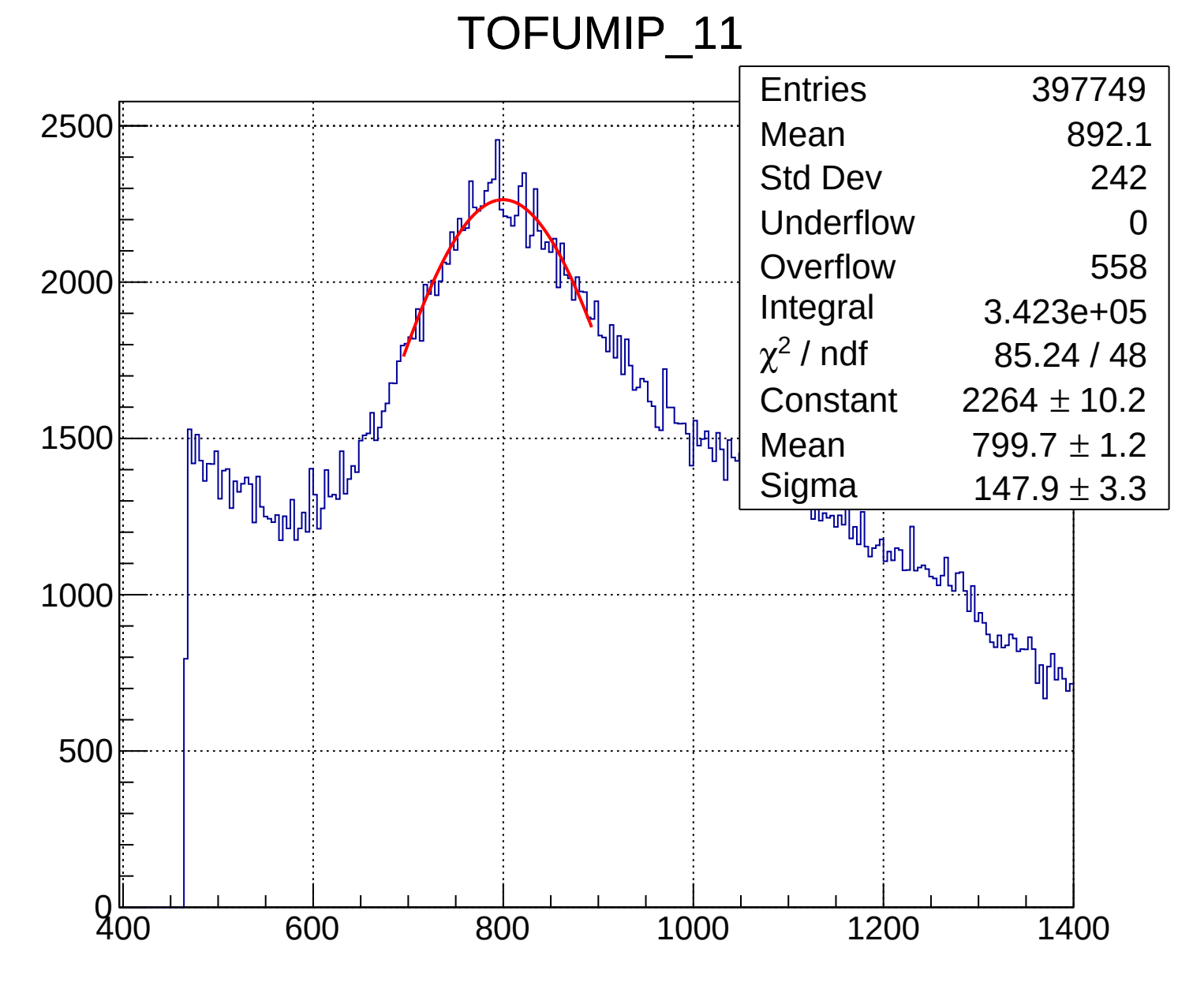

TOFUMIP_6
Entries 426923
Mean 1060
Std Dev 234.8
Underflow 0
Overflow 1199
Integral 3.364e+05
χ² / ndf 63.85 / 48
Constant 2329 ± 10.2
Mean 952.1 ± 1.6
Sigma 170.5 ± 4.9
2500
2000
1500
1000
500
600
800
1000
1200
1400

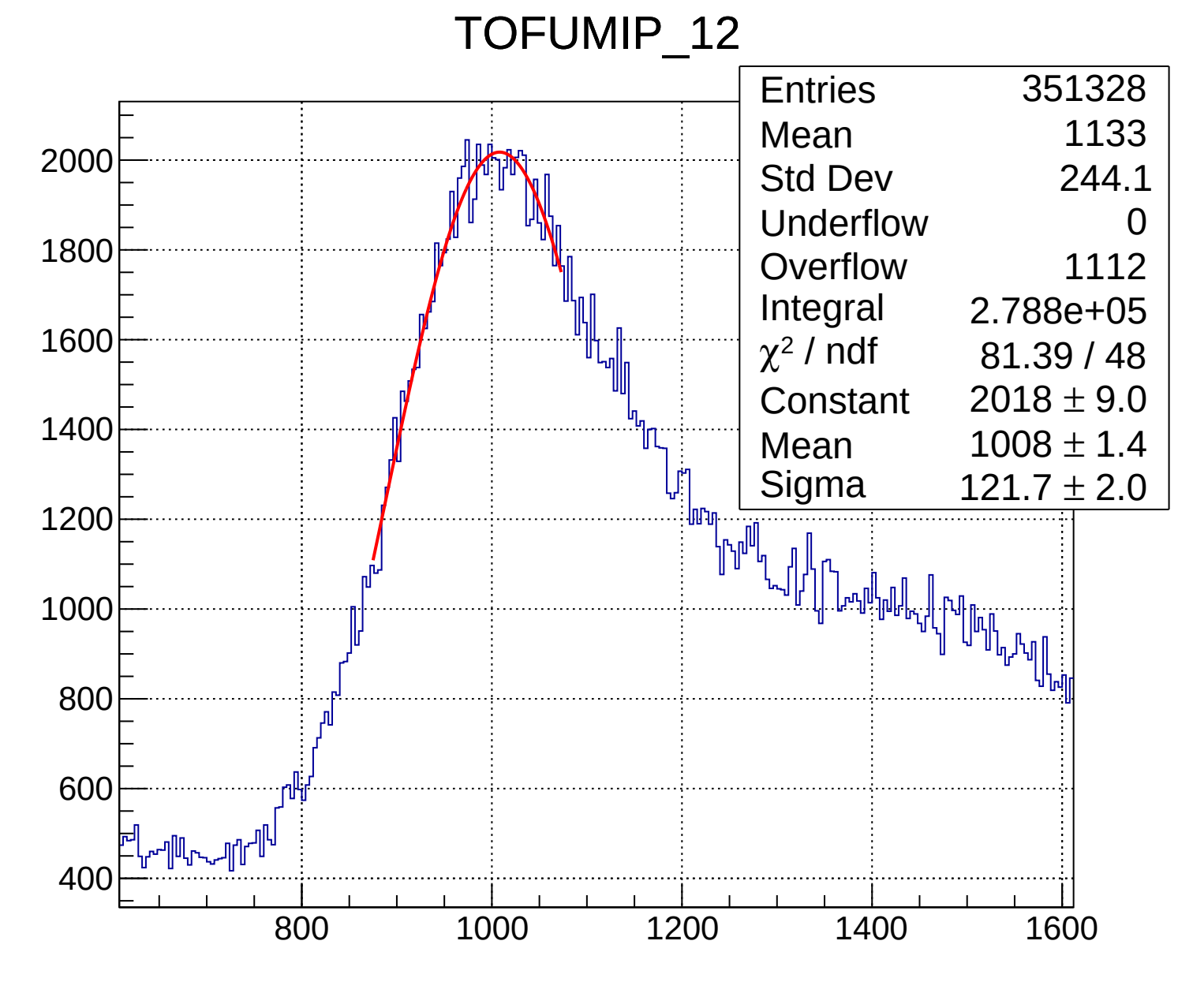

TOFUMIP_7
Entries 233892
Mean 916.6
Std Dev 247.1
Underflow 0
Overflow 684
Integral 1.973e+05
χ² / ndf 79.01 / 48
Constant 1333 ± 7.8
Mean 798 ± 1.7
Sigma 157 ± 5.0
1400
1200
1000
800
600
400
200
0
400
600
800
1000
1200
1400

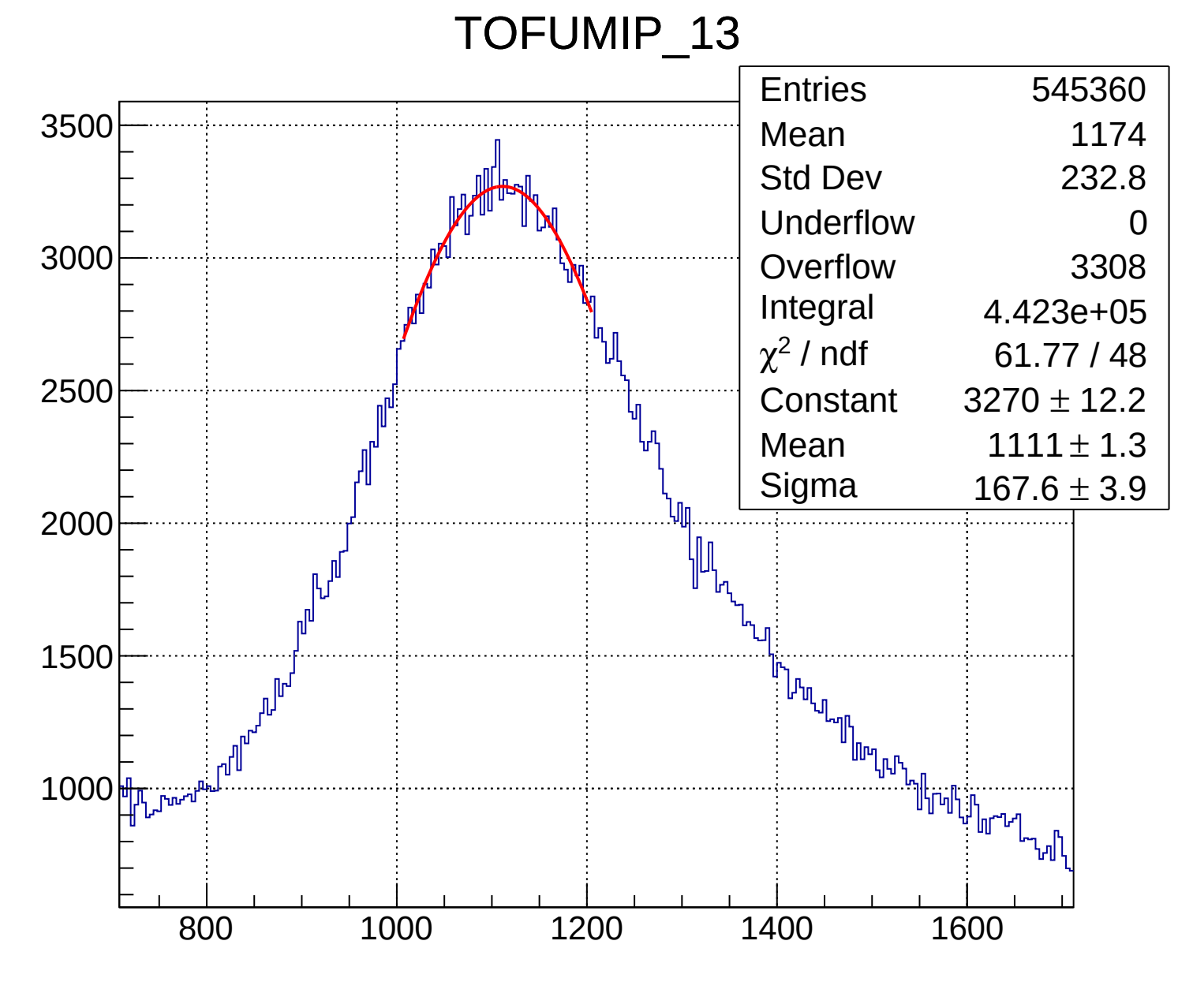

TOFUMIP_8
Entries 298719
Mean 974.6
Std Dev 253.8
Underflow 0
Overflow 290
Integral 2.434e+05
χ² / ndf 114.7 / 48
Constant 1494 ± 8.0
Mean 817.3 ± 1.3
Sigma 122.6 ± 2.4
1600
1400
1200
1000
800
600
400
600
800
1000
1200
1400

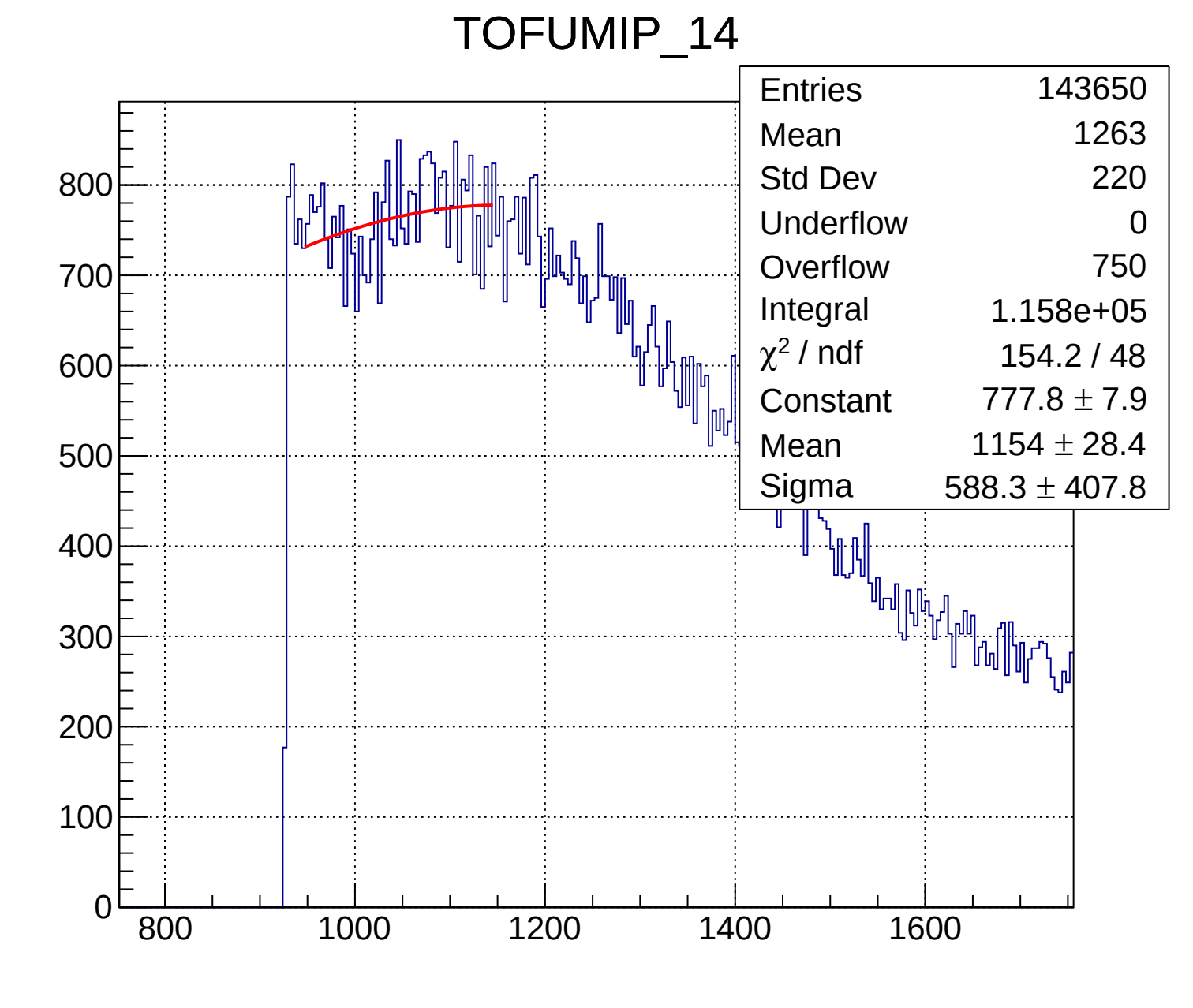

TOFUMIP_9
Entries 291362
Mean 1102
Std Dev 255.3
Underflow 0
Overflow 1135
Integral 2.131e+05
χ² / ndf 78.66 / 48
Constant 1223 ± 7.2
Mean 947.4 ± 2.2
Sigma 153.3 ± 5.0
1400
1200
1000
800
600
400
600
800
1000
1200
1400

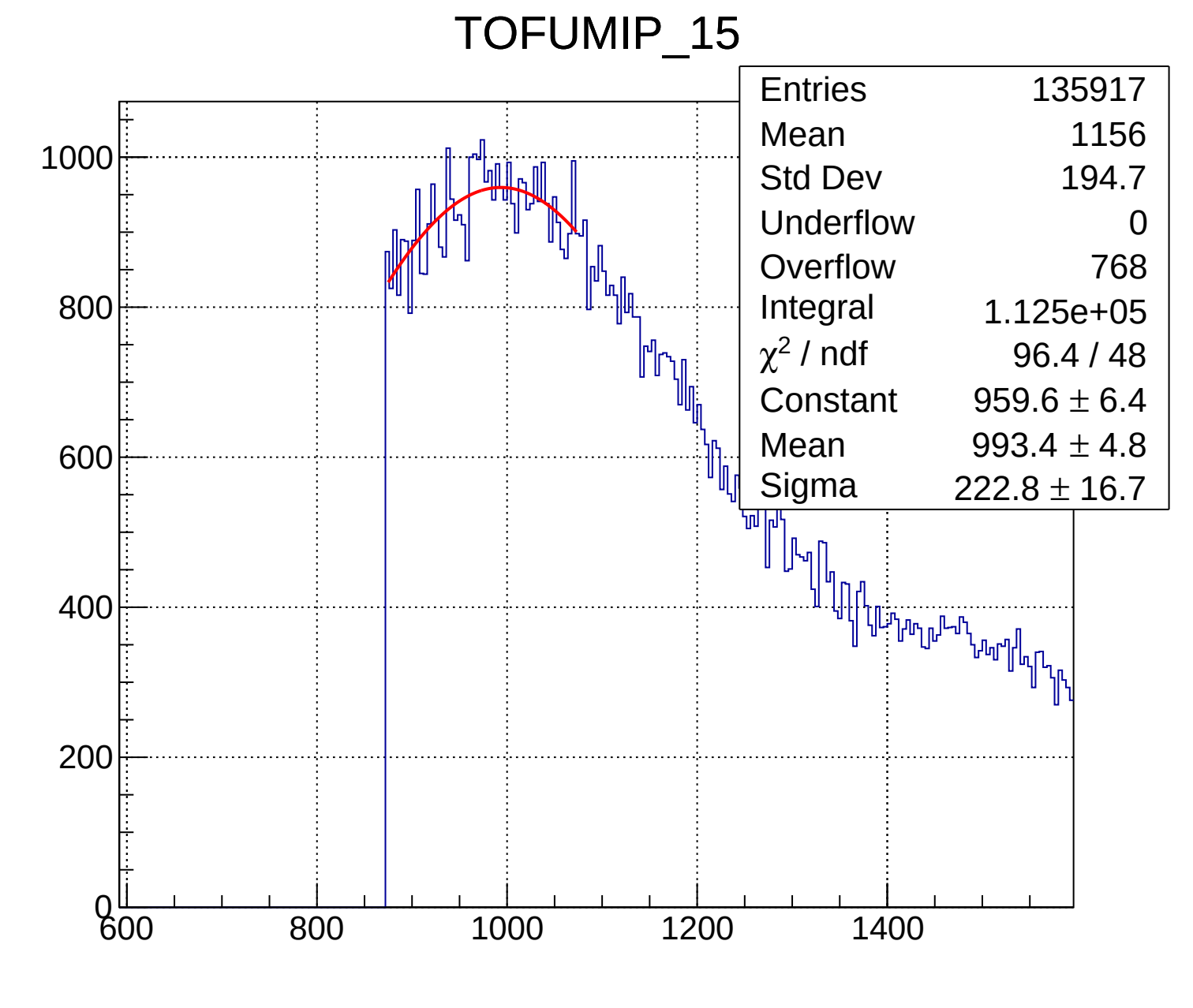

TOFUMIP_10
Entries 433709
Mean 879.7
Std Dev 273.5
Underflow 0
Overflow 419
Integral 3.991e+05
χ² / ndf 81.09 / 48
Constant 2178 ± 9.6
Mean 786.7 ± 1.5
Sigma 149.2 ± 3.4
2200
2000
1800
1600
1400
1200
1000
400
600
800
1000
1200

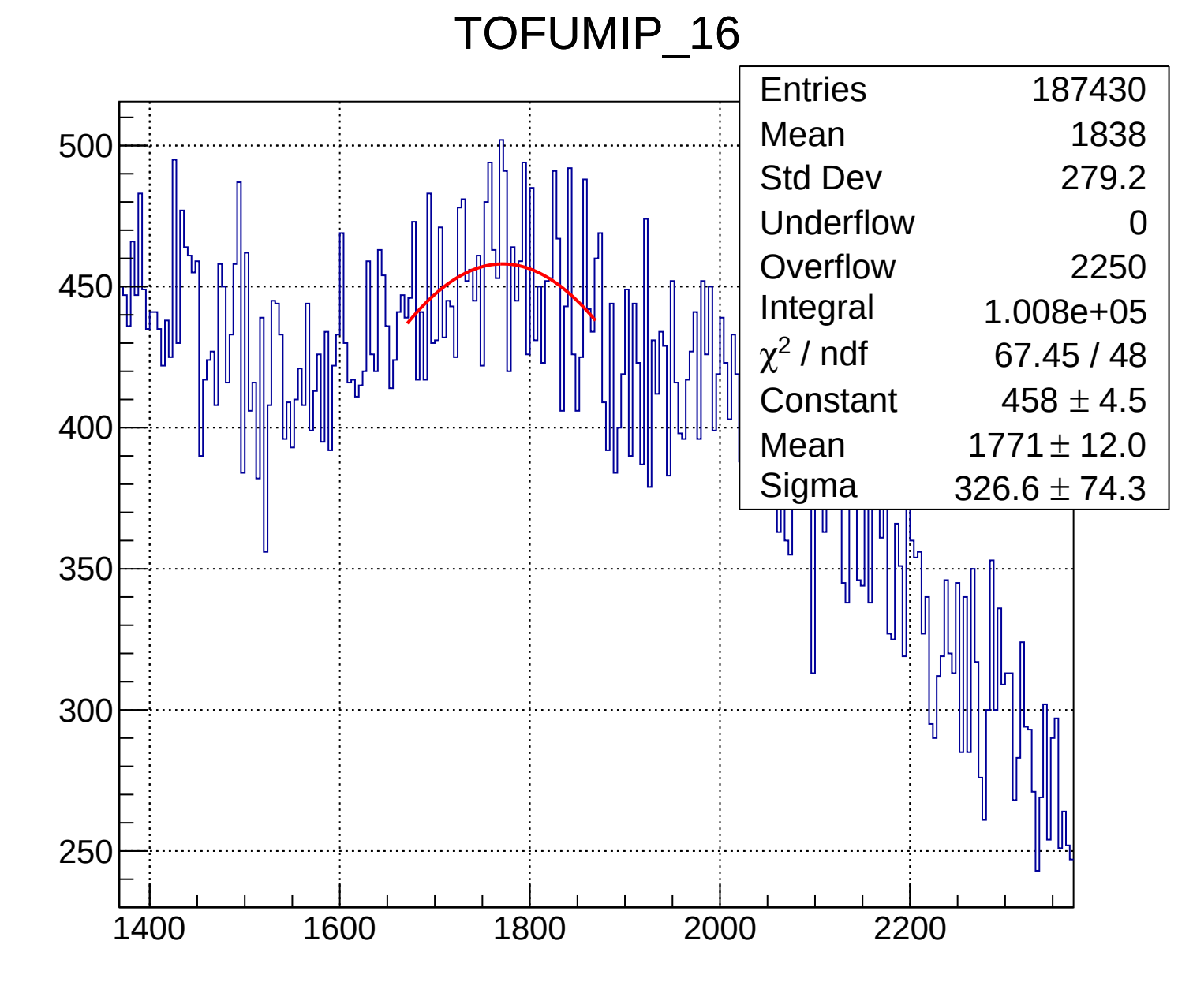

TOFUMIP_11
Entries 397749
Mean 892.1
Std Dev 242
Underflow 0
Overflow 558
Integral 3.423e+05
χ² / ndf 85.24 / 48
Constant 2264 ± 10.2
Mean 799.7 ± 1.2
Sigma 147.9 ± 3.3
2500
2000
1500
1000
500
0
400
600
800
1000
1200
1400

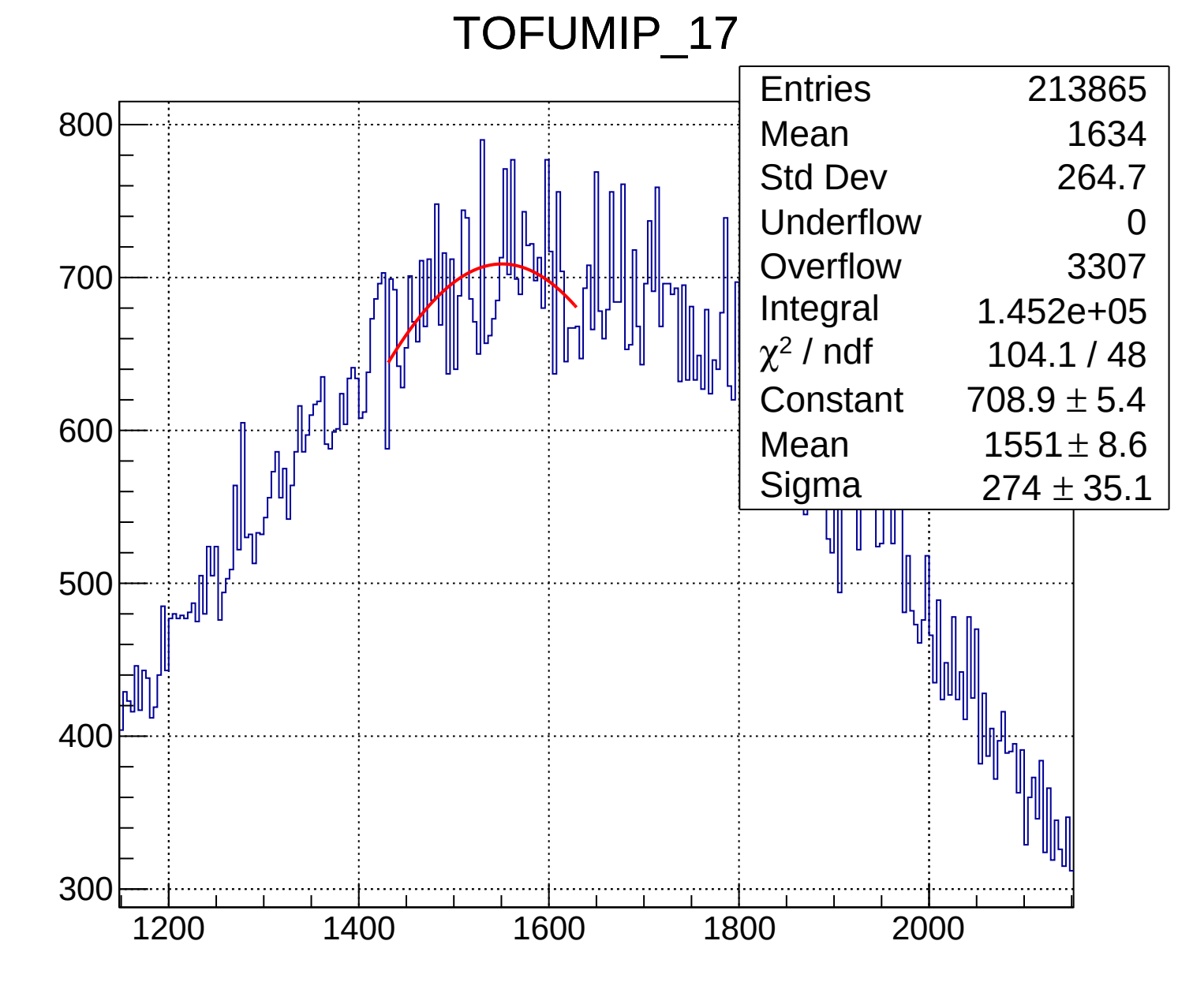

TOFUMIP_12
Entries 351328
Mean 1133
Std Dev 244.1
Underflow 0
Overflow 1112
Integral 2.788e+05
χ² / ndf 81.39 / 48
Constant 2018 ± 9.0
Mean 1008 ± 1.4
Sigma 121.7 ± 2.0
2000
1800
1600
1400
1200
1000
800
600
400
800
1000
1200
1400
1600

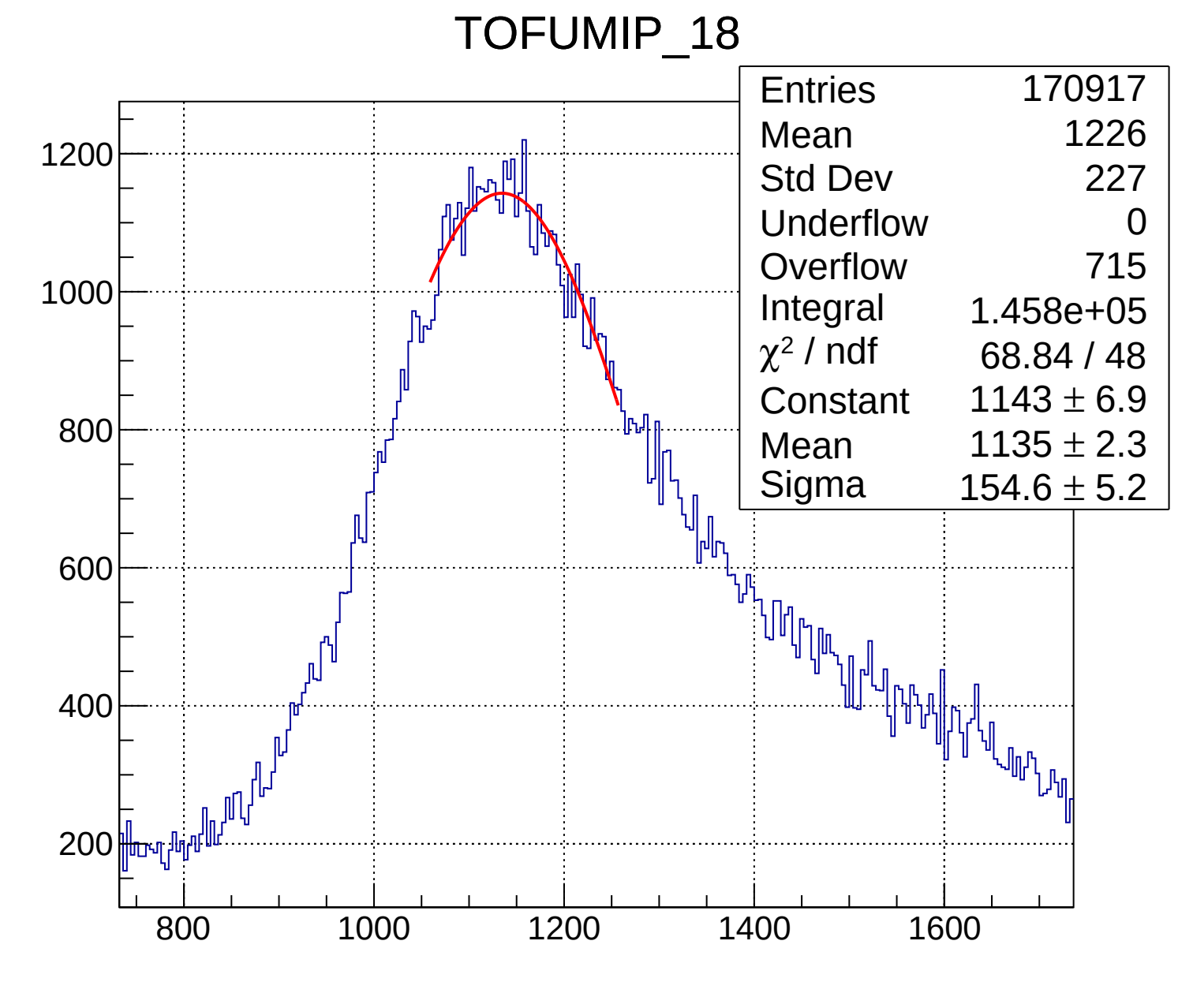

TOFUMIP_13
Entries 545360
Mean 1174
Std Dev 232.8
Underflow 0
Overflow 3308
Integral 4.423e+05
χ² / ndf 61.77 / 48
Constant 3270 ± 12.2
Mean 1111 ± 1.3
Sigma 167.6 ± 3.9
3500
3000
2500
2000
1500
1000
800
1000
1200
1400
1600

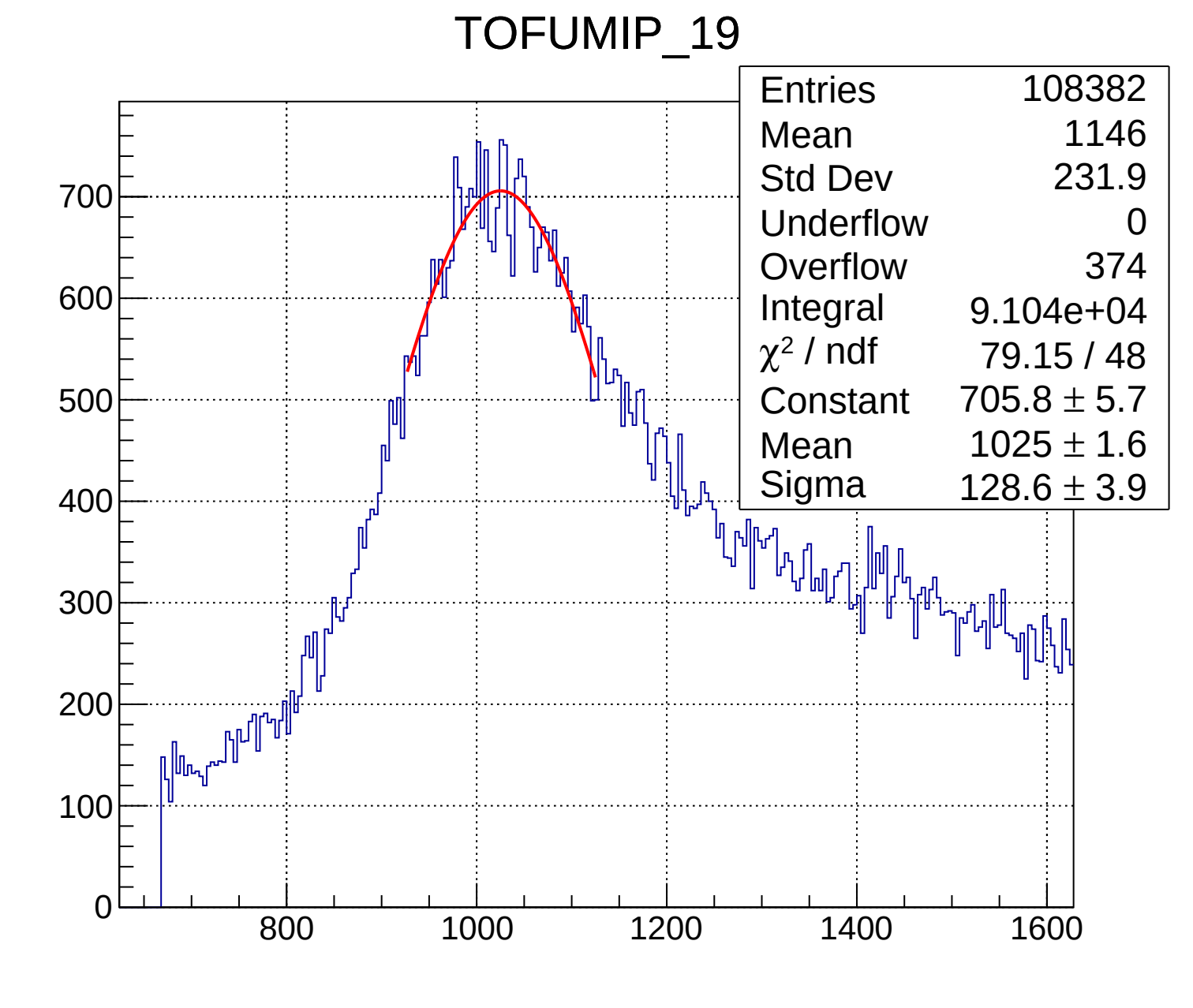

TOFUMIP_14
Entries 143650
Mean 1263
Std Dev 220
Underflow 0
Overflow 750
Integral 1.158e+05
χ² / ndf 154.2 / 48
Constant 777.8 ± 7.9
Mean 1154 ± 28.4
Sigma 588.3 ± 407.8
0
100
200
300
400
500
600
700
800
800
1000
1200
1400
1600

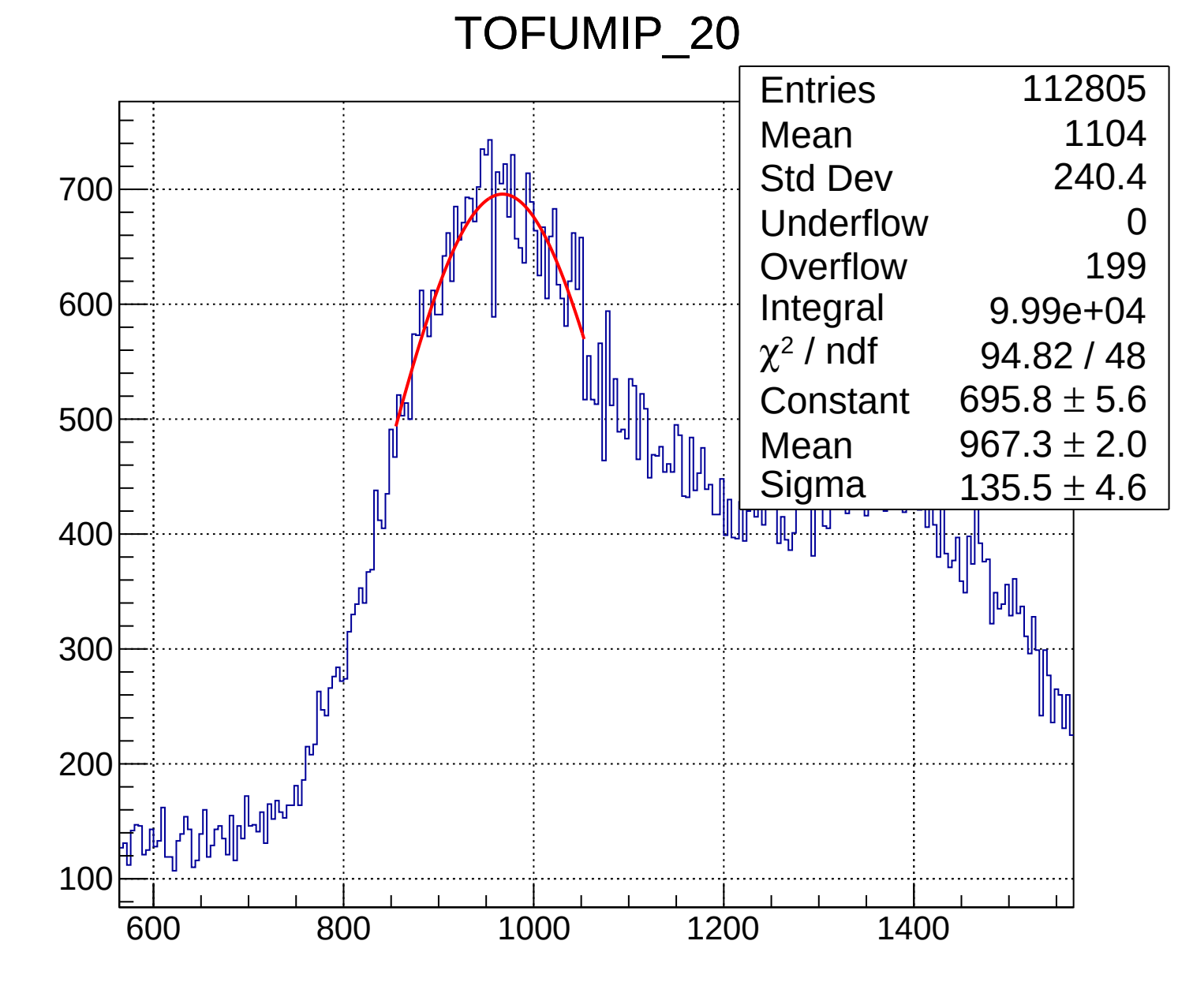

TOFUMIP_15
Entries 135917
Mean 1156
Std Dev 194.7
Underflow 0
Overflow 768
Integral 1.125e+05
χ² / ndf 96.4 / 48
Constant 959.6 ± 6.4
Mean 993.4 ± 4.8
Sigma 222.8 ± 16.7
1000
800
600
400
200
0
600
800
1000
1200
1400

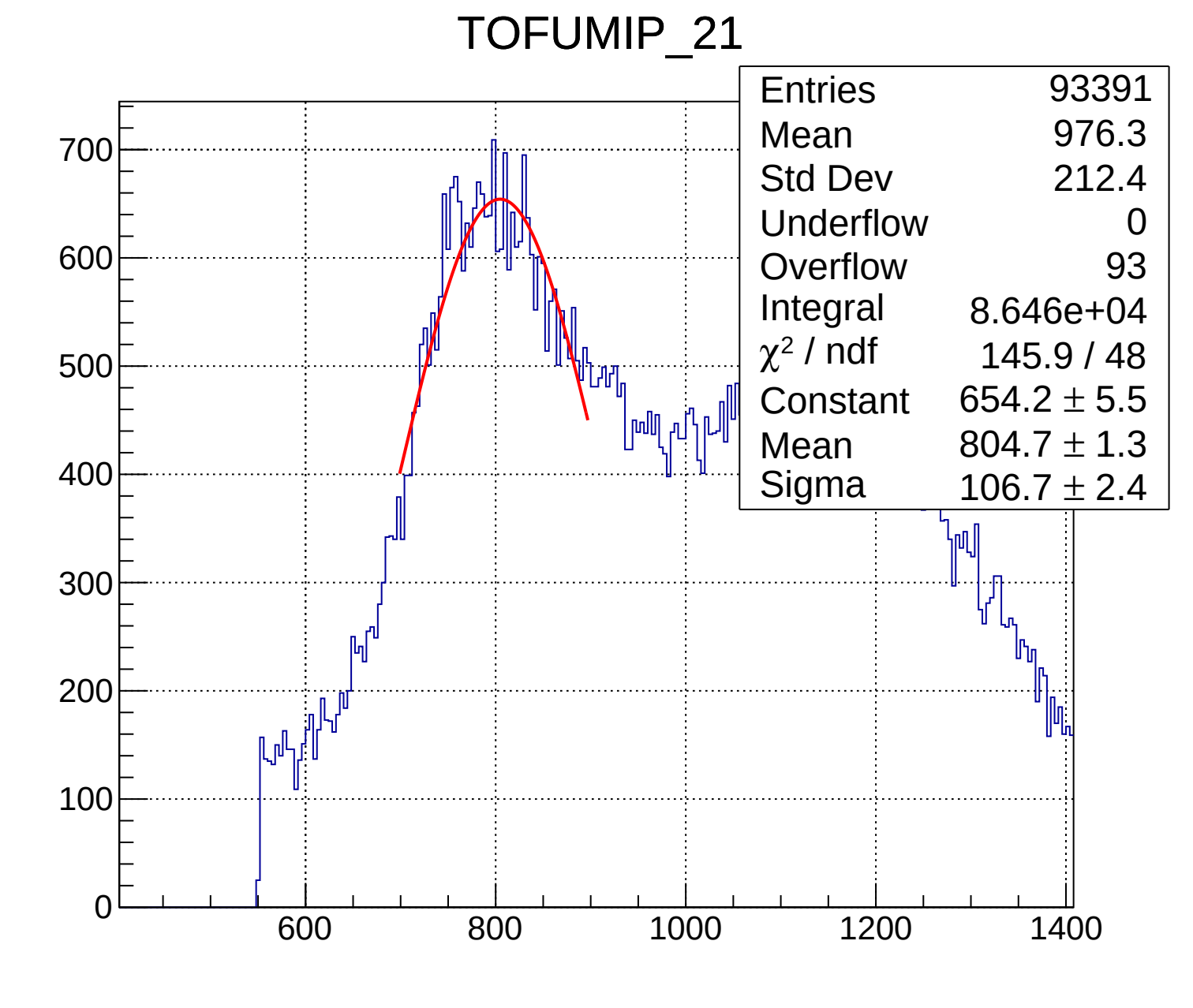

TOFUMIP_16
Entries 187430
Mean 1838
Std Dev 279.2
Underflow 0
Overflow 2250
Integral 1.008e+05
χ² / ndf 67.45 / 48
Constant 458 ± 4.5
Mean 1771 ± 12.0
Sigma 326.6 ± 74.3
500
450
400
350
300
250
1400
1600
1800
2000
2200

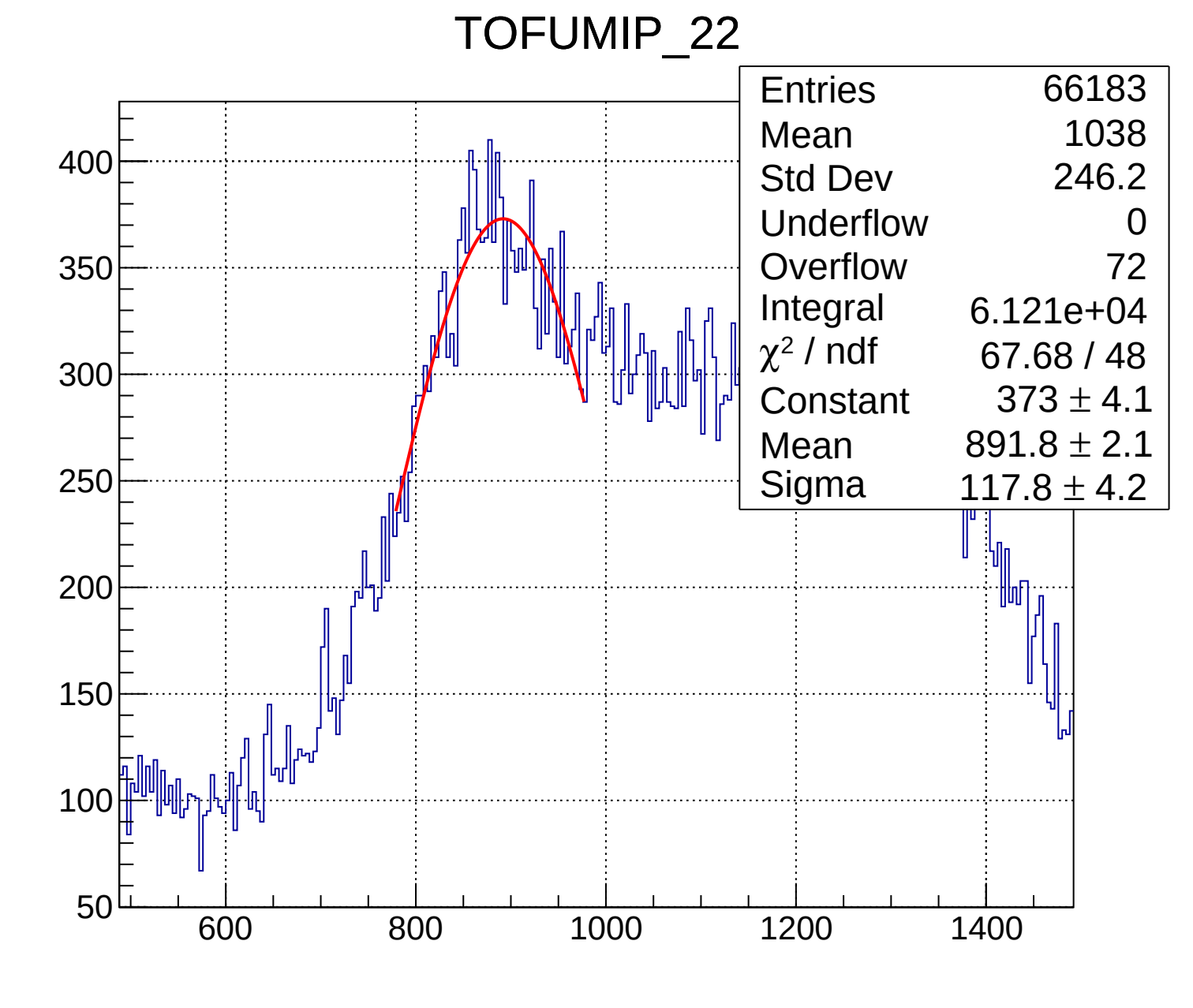

TOFUMIP_17
Entries 213865
Mean 1634
Std Dev 264.7
Underflow 0
Overflow 3307
Integral 1.452e+05
χ² / ndf 104.1 / 48
Constant 708.9 ± 5.4
Mean 1551 ± 8.6
Sigma 274 ± 35.1
800
700
600
500
400
300
1200
1400
1600
1800
2000

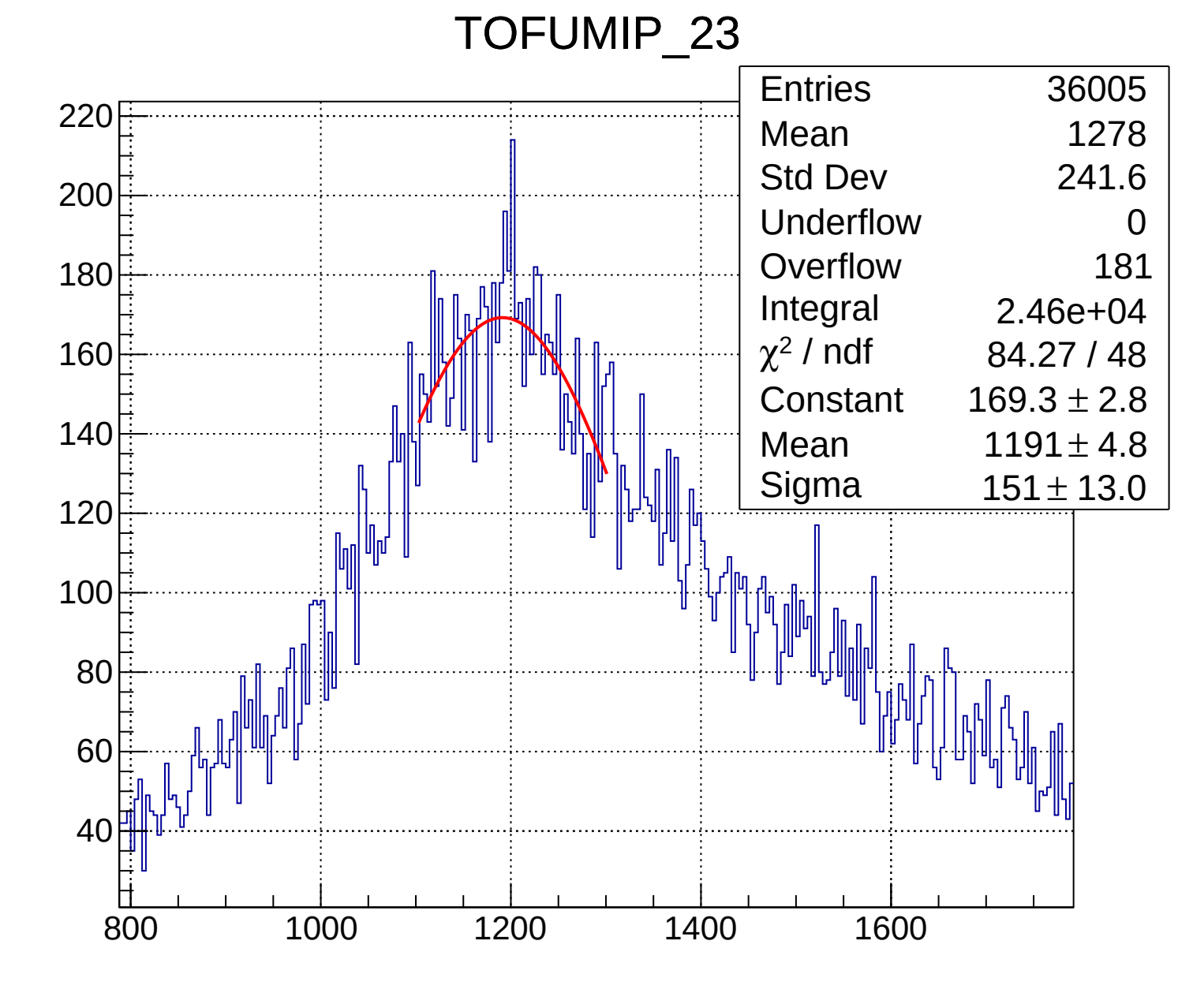

TOFUMIP_18
Entries 170917
Mean 1226
Std Dev 227
Underflow 0
Overflow 715
Integral 1.458e+05
χ² / ndf 68.84 / 48
Constant 1143 ± 6.9
Mean 1135 ± 2.3
Sigma 154.6 ± 5.2
1200
1000
800
600
400
200
800
1000
1200
1400
1600

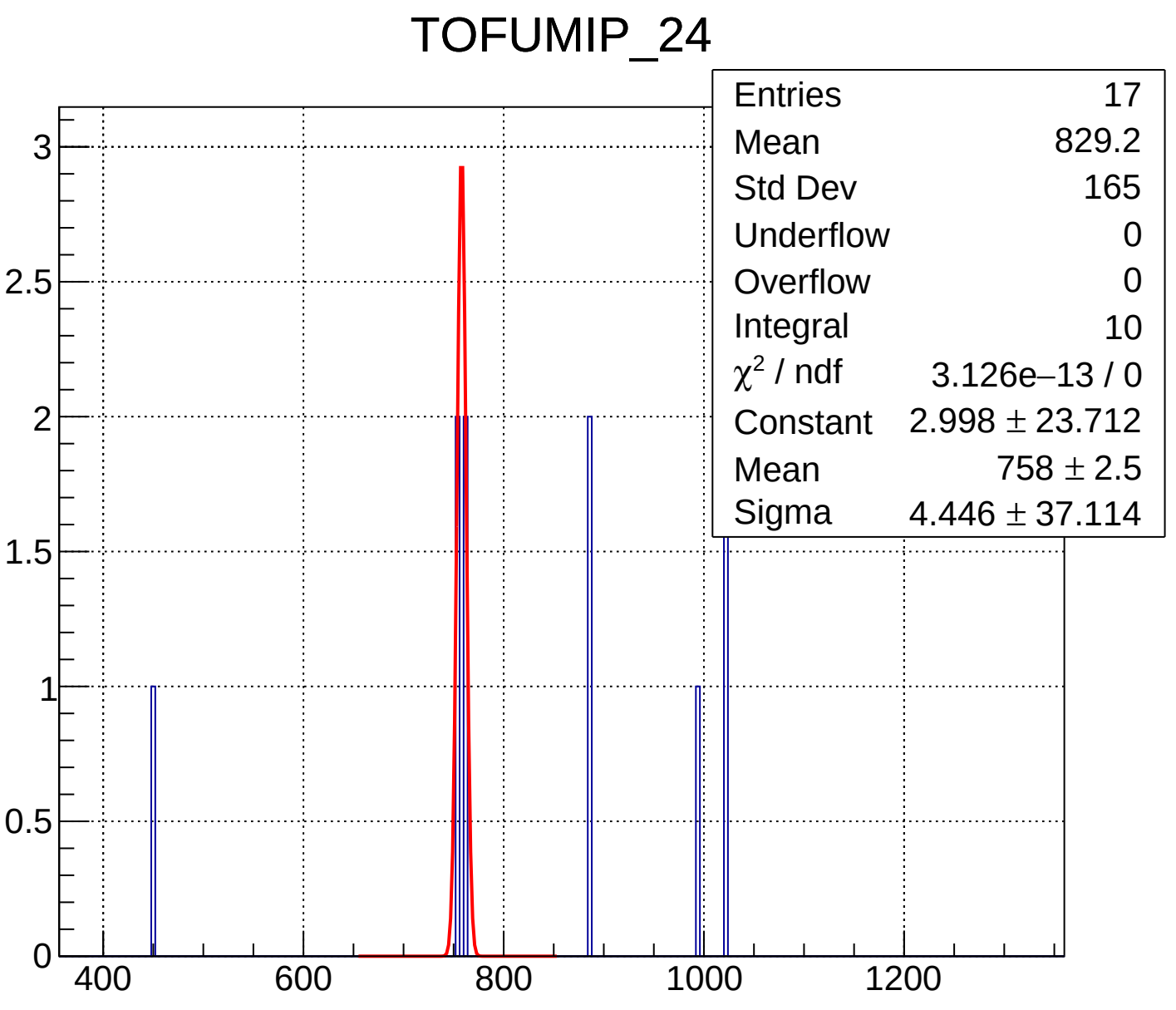

TOFUMIP_19
Entries 108382
Mean 1146
Std Dev 231.9
Underflow 0
Overflow 374
Integral 9.104e+04
χ² / ndf 79.15 / 48
Constant 705.8 ± 5.7
Mean 1025 ± 1.6
Sigma 128.6 ± 3.9
0
100
200
300
400
500
600
700
800
1000
1200
1400
1600

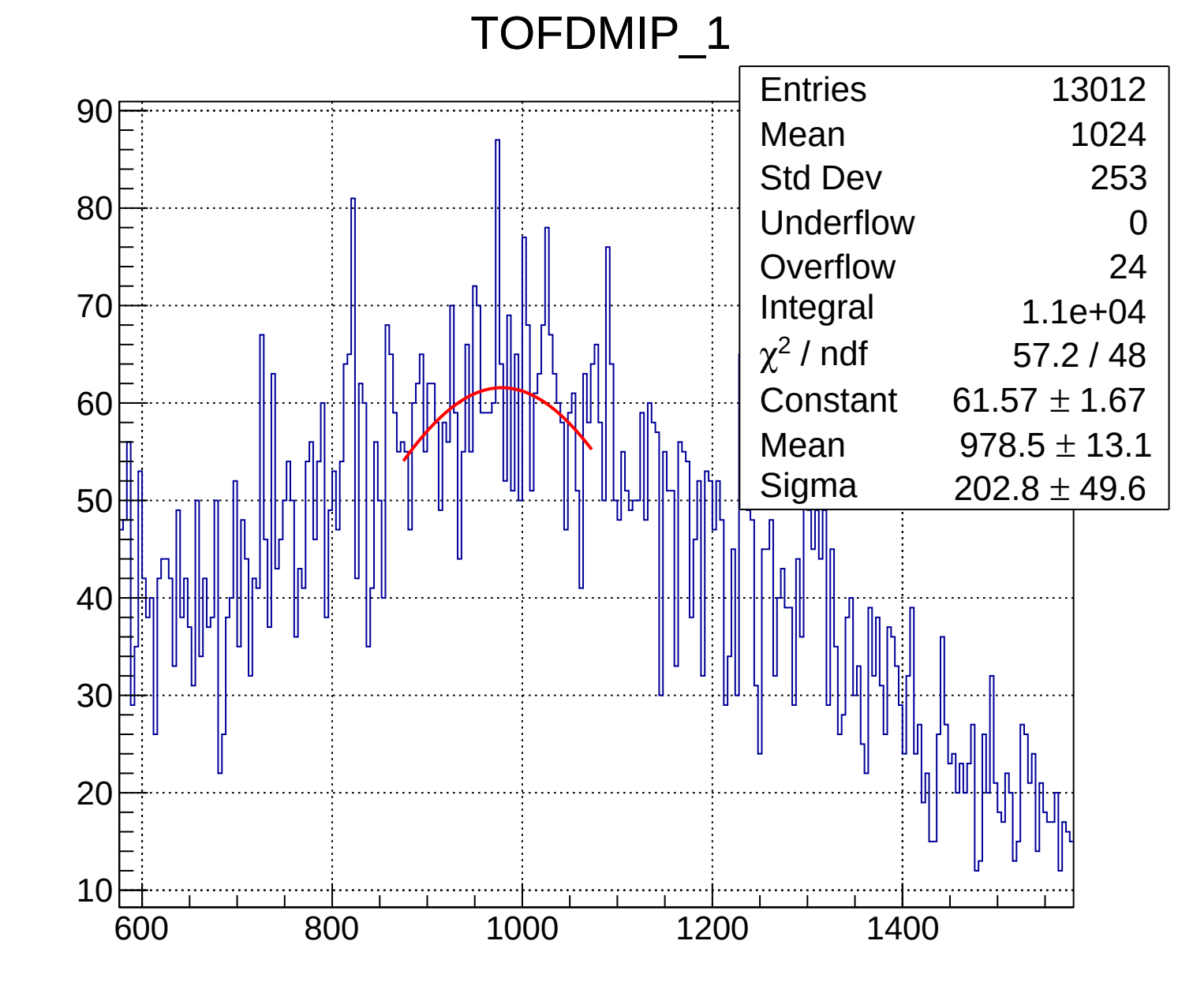

TOFUMIP_20
Entries 112805
Mean 1104
Std Dev 240.4
Underflow 0
Overflow 199
Integral 9.99e+04
χ² / ndf 94.82 / 48
Constant 695.8 ± 5.6
Mean 967.3 ± 2.0
Sigma 135.5 ± 4.6
700
600
500
400
300
200
100
600
800
1000
1200
1400

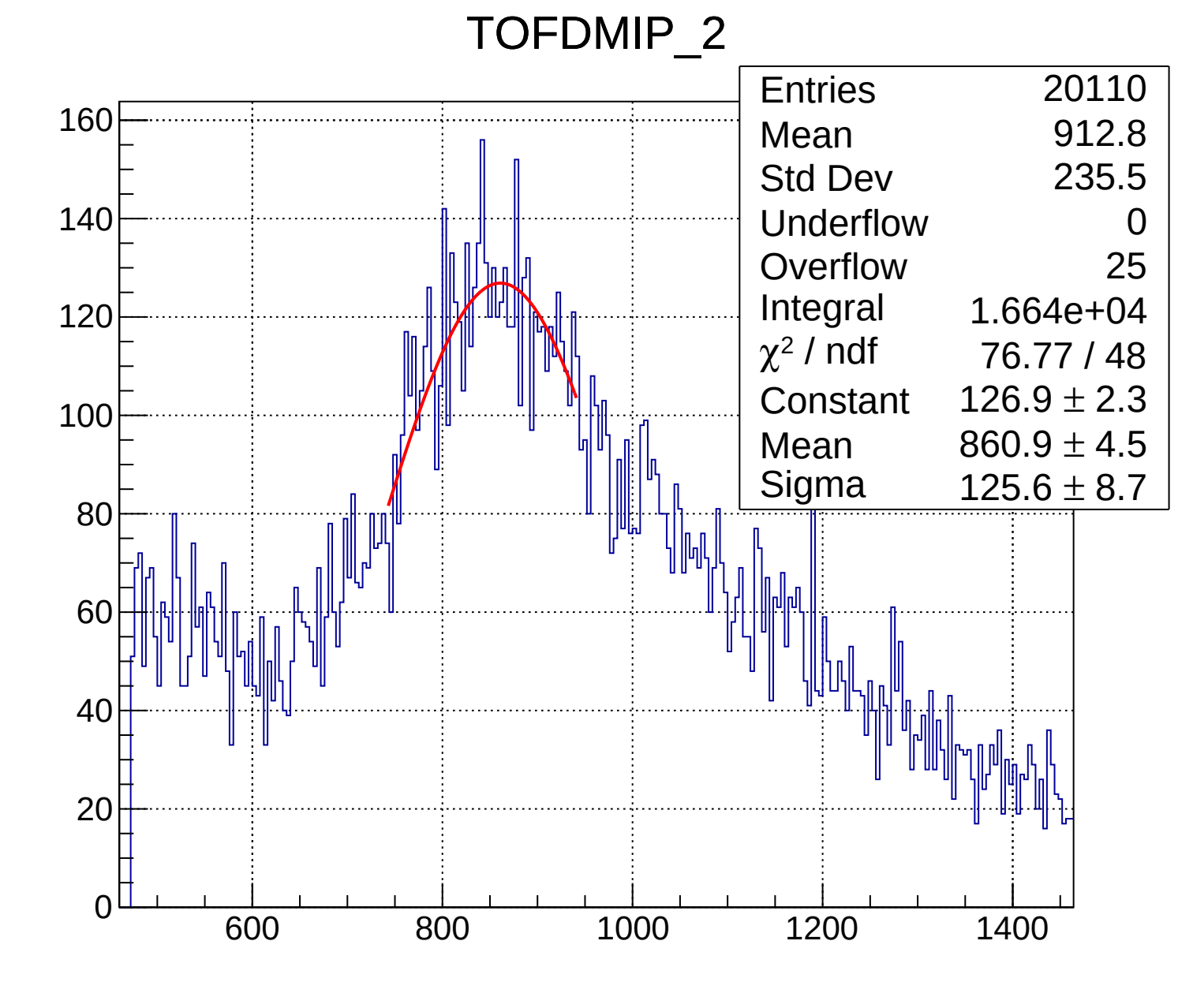

TOFUMIP_21
Entries 93391
Mean 976.3
Std Dev 212.4
Underflow 0
Overflow 93
Integral 8.646e+04
χ² / ndf 145.9 / 48
Constant 654.2 ± 5.5
Mean 804.7 ± 1.3
Sigma 106.7 ± 2.4
700
600
500
400
300
200
100
0
600
800
1000
1200
1400

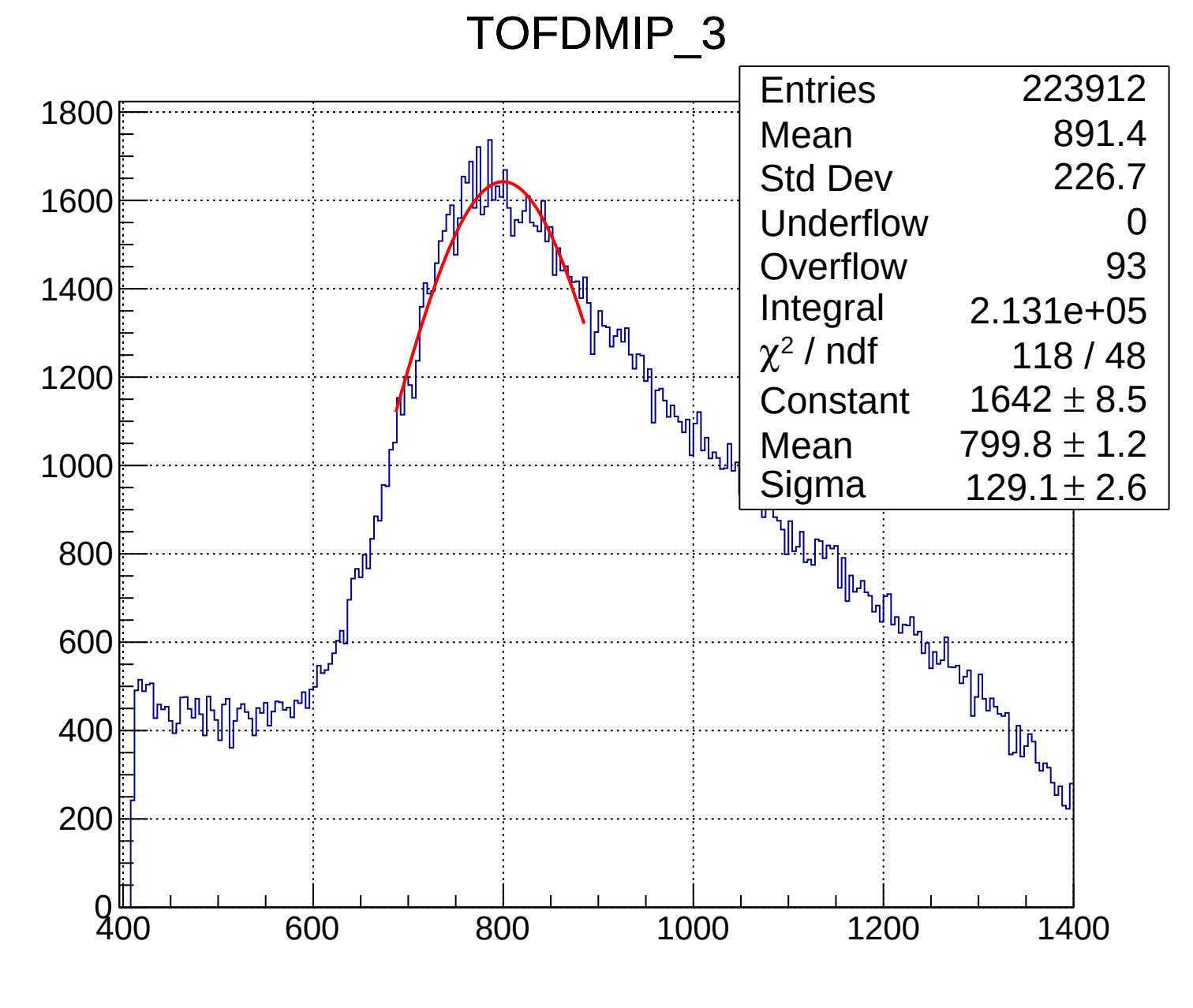

TOFUMIP_22
Entries 66183
Mean 1038
Std Dev 246.2
Underflow 0
Overflow 72
Integral 6.121e+04
χ² / ndf 67.68 / 48
Constant 373 ± 4.1
Mean 891.8 ± 2.1
Sigma 117.8 ± 4.2
400
350
300
250
200
150
100
50
600
800
1000
1200
1400

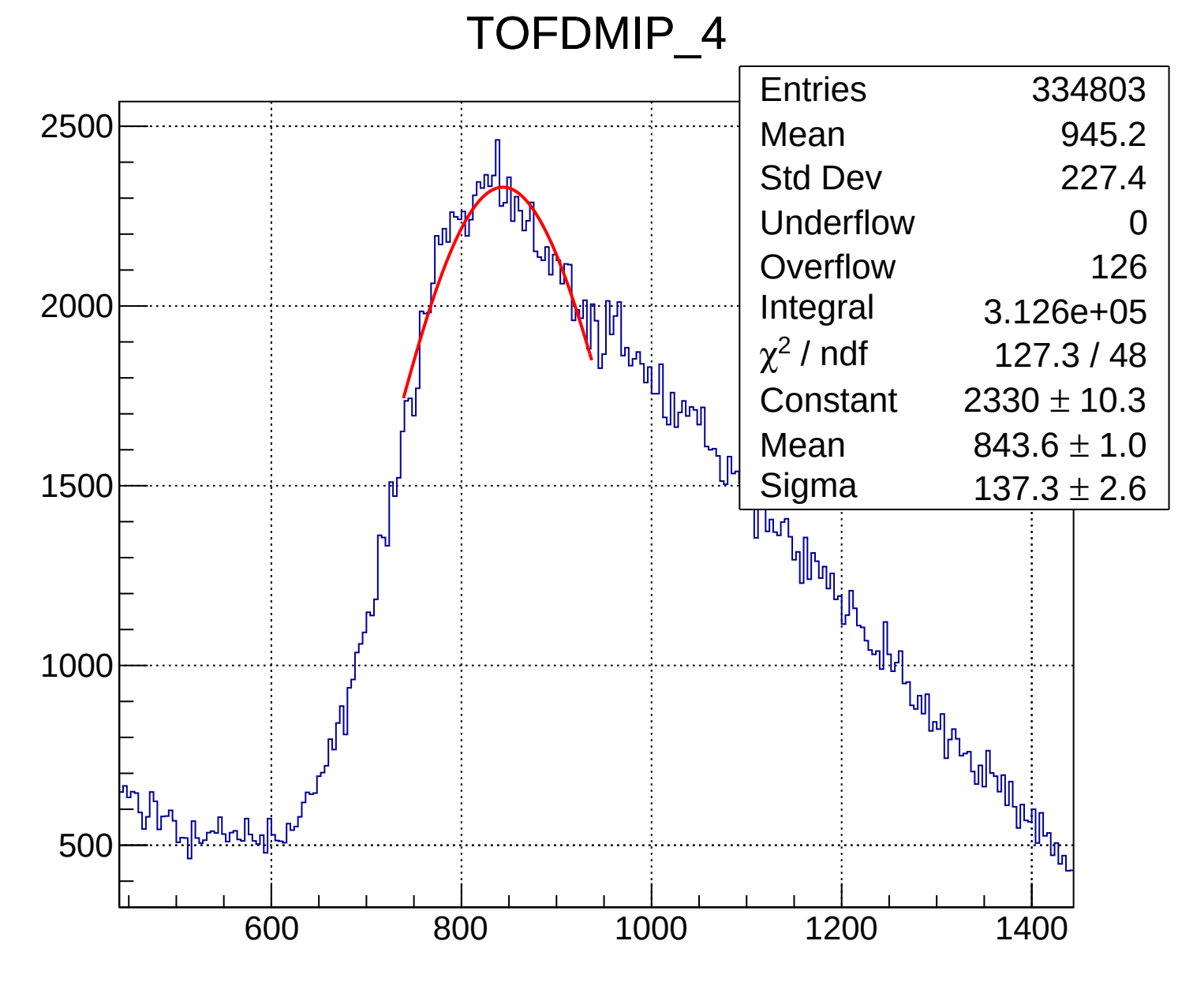

TOFUMIP_23
Entries 36005
Mean 1278
Std Dev 241.6
Underflow 0
Overflow 181
Integral 2.46e+04
χ² / ndf 84.27 / 48
Constant 169.3 ± 2.8
Mean 1191 ± 4.8
Sigma 151 ± 13.0
220
200
180
160
140
120
100
80
60
40
800
1000
1200
1400
1600

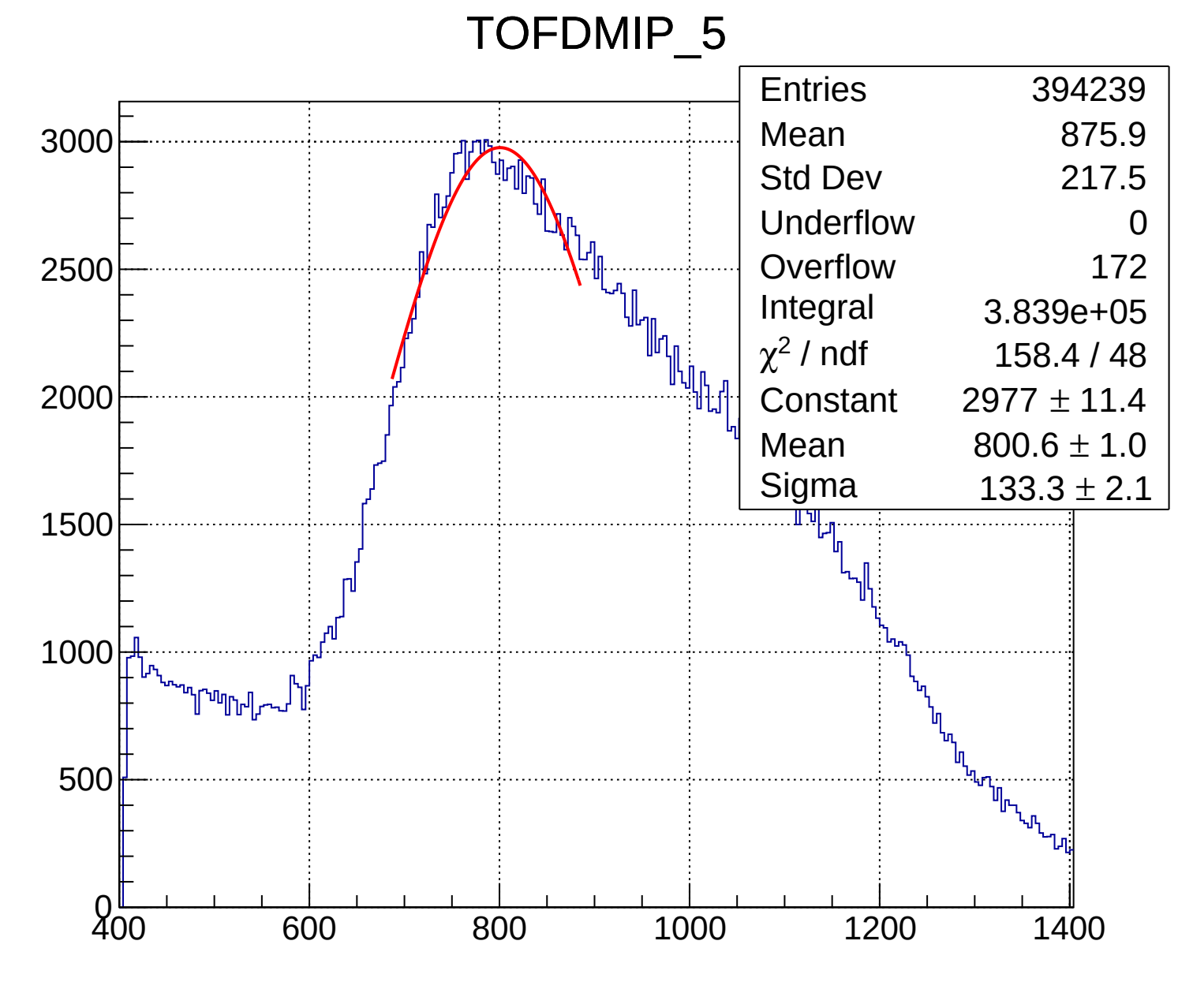

TOFUMIP_24
Entries 17
Mean 829.2
Std Dev 165
Underflow 0
Overflow 0
Integral 10
χ² / ndf 3.126e–13 / 0
Constant 2.998 ± 23.712
Mean 758 ± 2.5
Sigma 4.446 ± 37.114
3
2.5
2
1.5
1
0.5
0
400
600
800
1000
1200

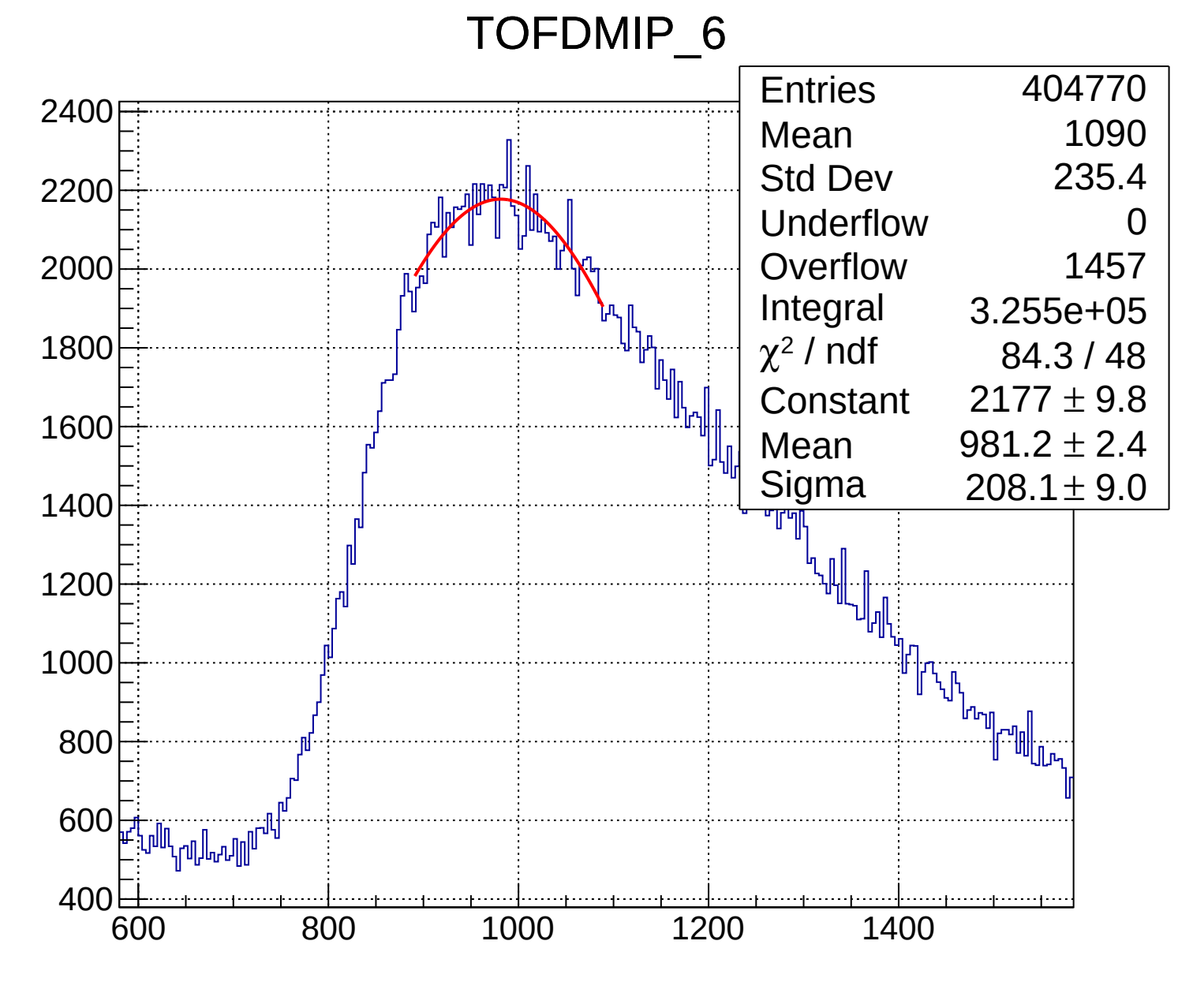

TOFDMIP_1
Entries 13012
Mean 1024
Std Dev 253
Underflow 0
Overflow 24
Integral 1.1e+04
χ² / ndf 57.2 / 48
Constant 61.57 ± 1.67
Mean 978.5 ± 13.1
Sigma 202.8 ± 49.6
90
80
70
60
50
40
30
20
10
600
800
1000
1200
1400

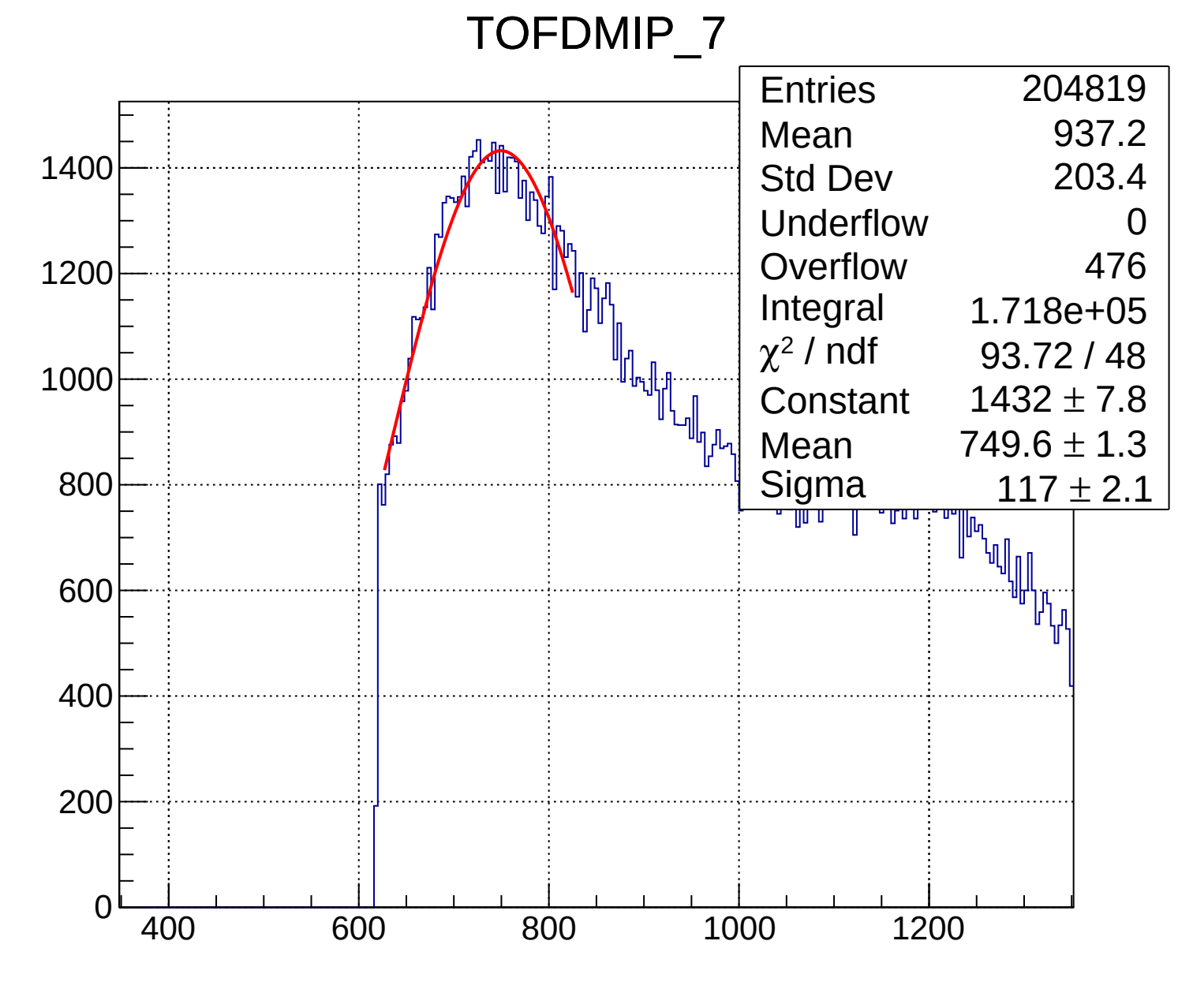

TOFDMIP_2
Entries 20110
Mean 912.8
Std Dev 235.5
Underflow 0
Overflow 25
Integral 1.664e+04
χ² / ndf 76.77 / 48
Constant 126.9 ± 2.3
Mean 860.9 ± 4.5
Sigma 125.6 ± 8.7
160
140
120
100
80
60
40
20
0
600
800
1000
1200
1400

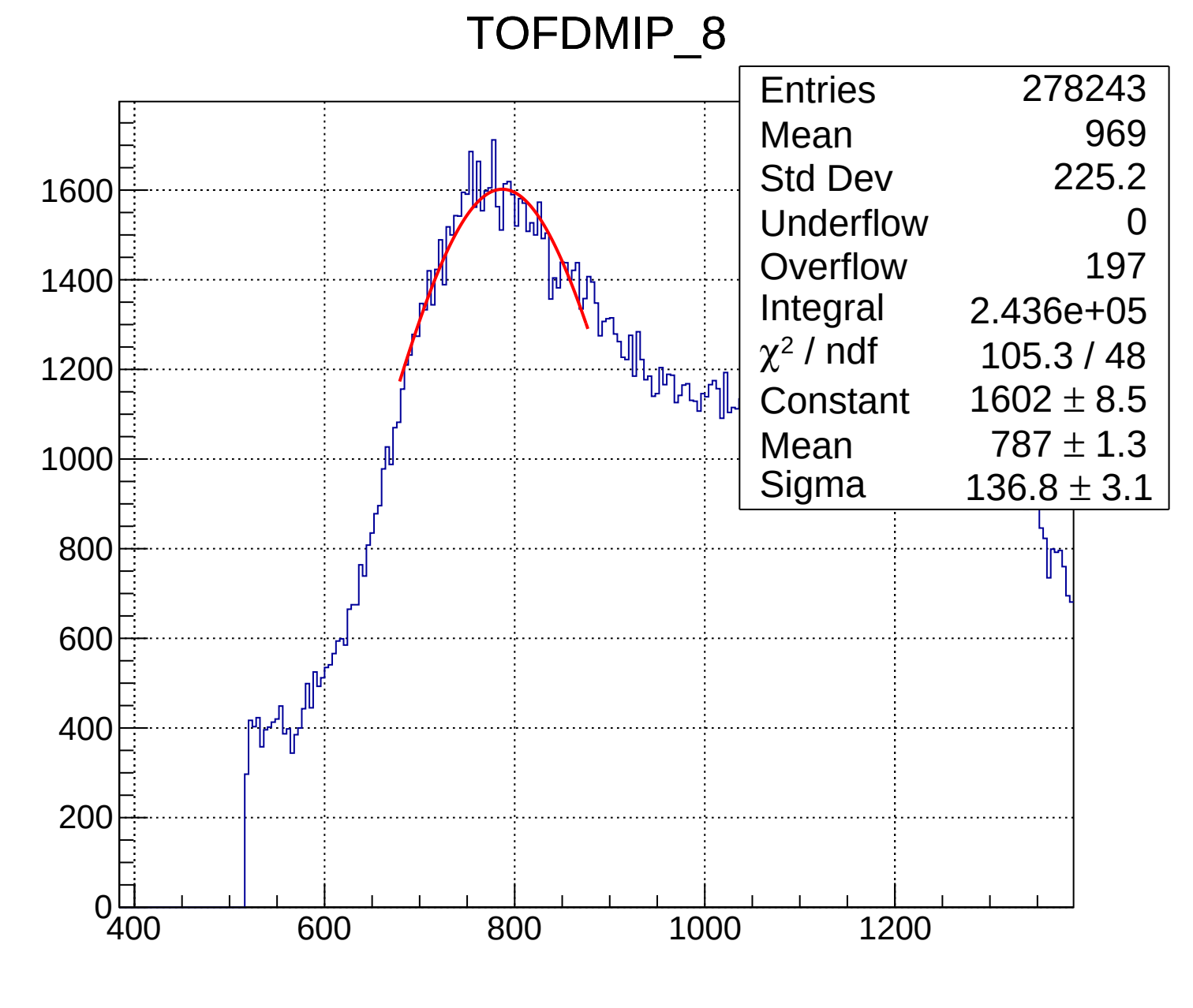

TOFDMIP_3
Entries 223912
Mean 891.4
Std Dev 226.7
Underflow 0
Overflow 93
Integral 2.131e+05
χ² / ndf 118 / 48
Constant 1642 ± 8.5
Mean 799.8 ± 1.2
Sigma 129.1 ± 2.6
1800
1600
1400
1200
1000
800
600
400
200
0
400
600
800
1000
1200
1400

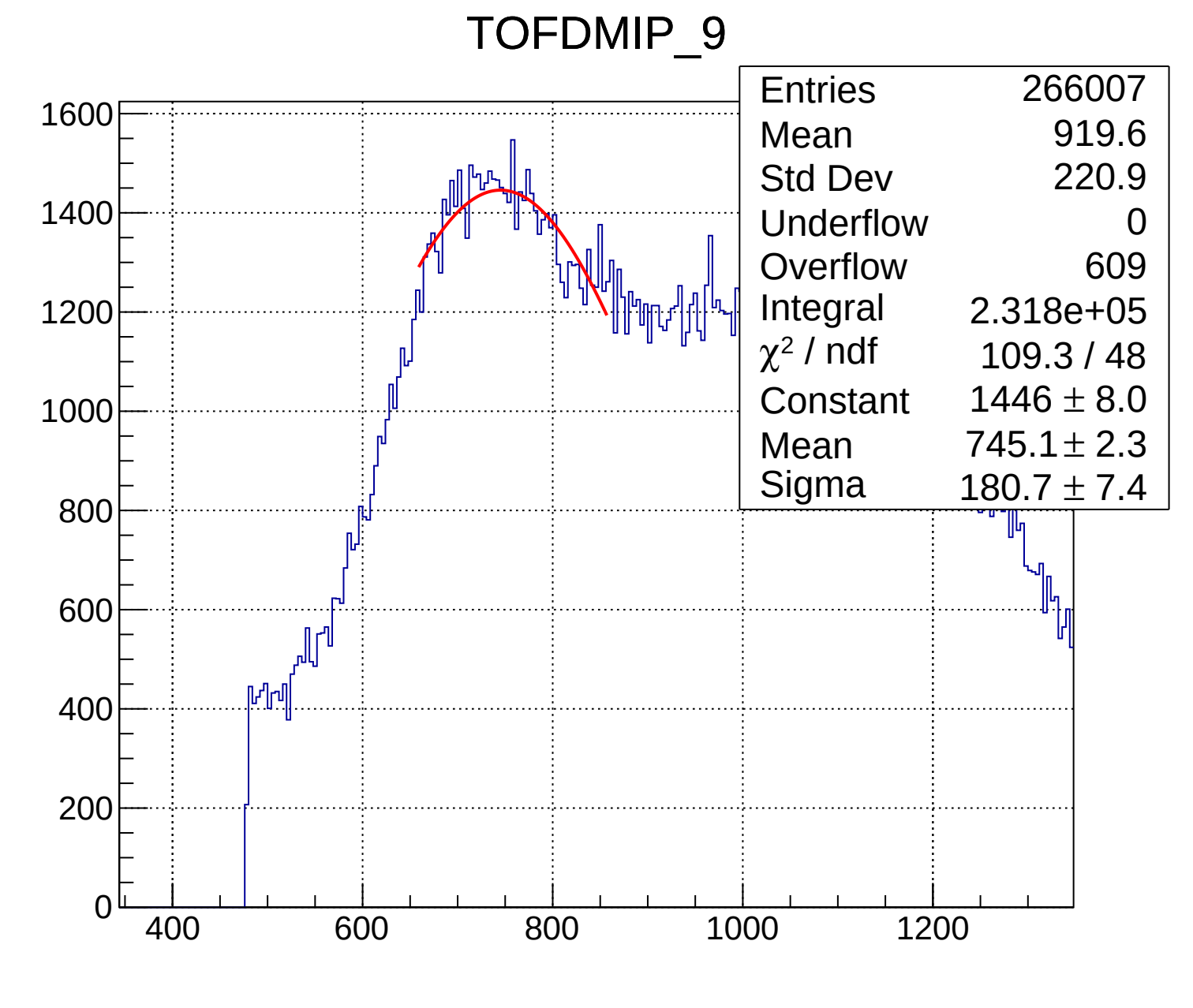

TOFDMIP_4
Entries 334803
Mean 945.2
Std Dev 227.4
Underflow 0
Overflow 126
Integral 3.126e+05
χ² / ndf 127.3 / 48
Constant 2330 ± 10.3
Mean 843.6 ± 1.0
Sigma 137.3 ± 2.6
2500
2000
1500
1000
500
600
800
1000
1200
1400

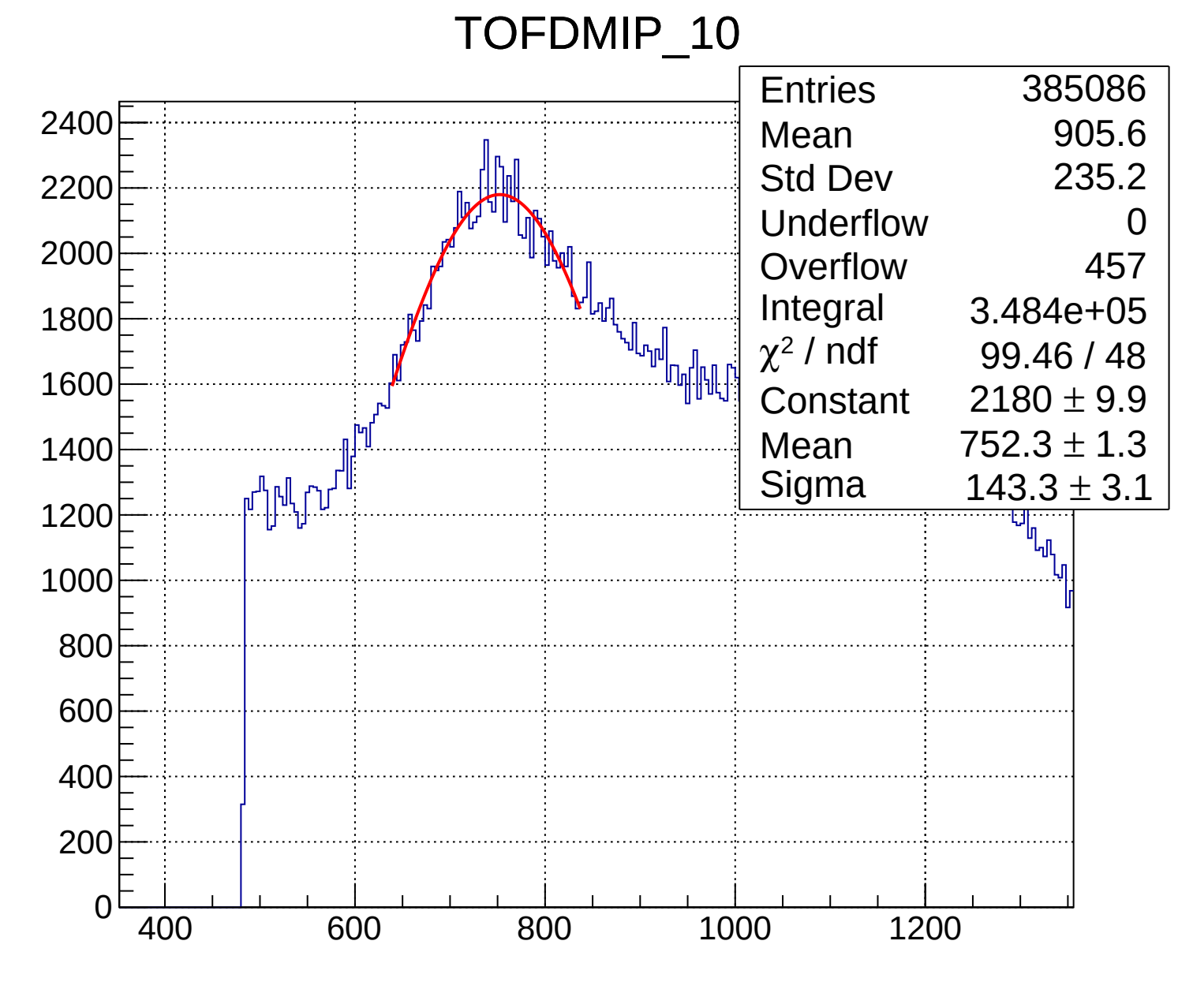

TOFDMIP_5
Entries 394239
Mean 875.9
Std Dev 217.5
Underflow 0
Overflow 172
Integral 3.839e+05
χ2 / ndf 158.4 / 48
Constant 2977 ± 11.4
Mean 800.6 ± 1.0
Sigma 133.3 ± 2.1
3000
2500
2000
1500
1000
500
0
400
600
800
1000
1200
1400

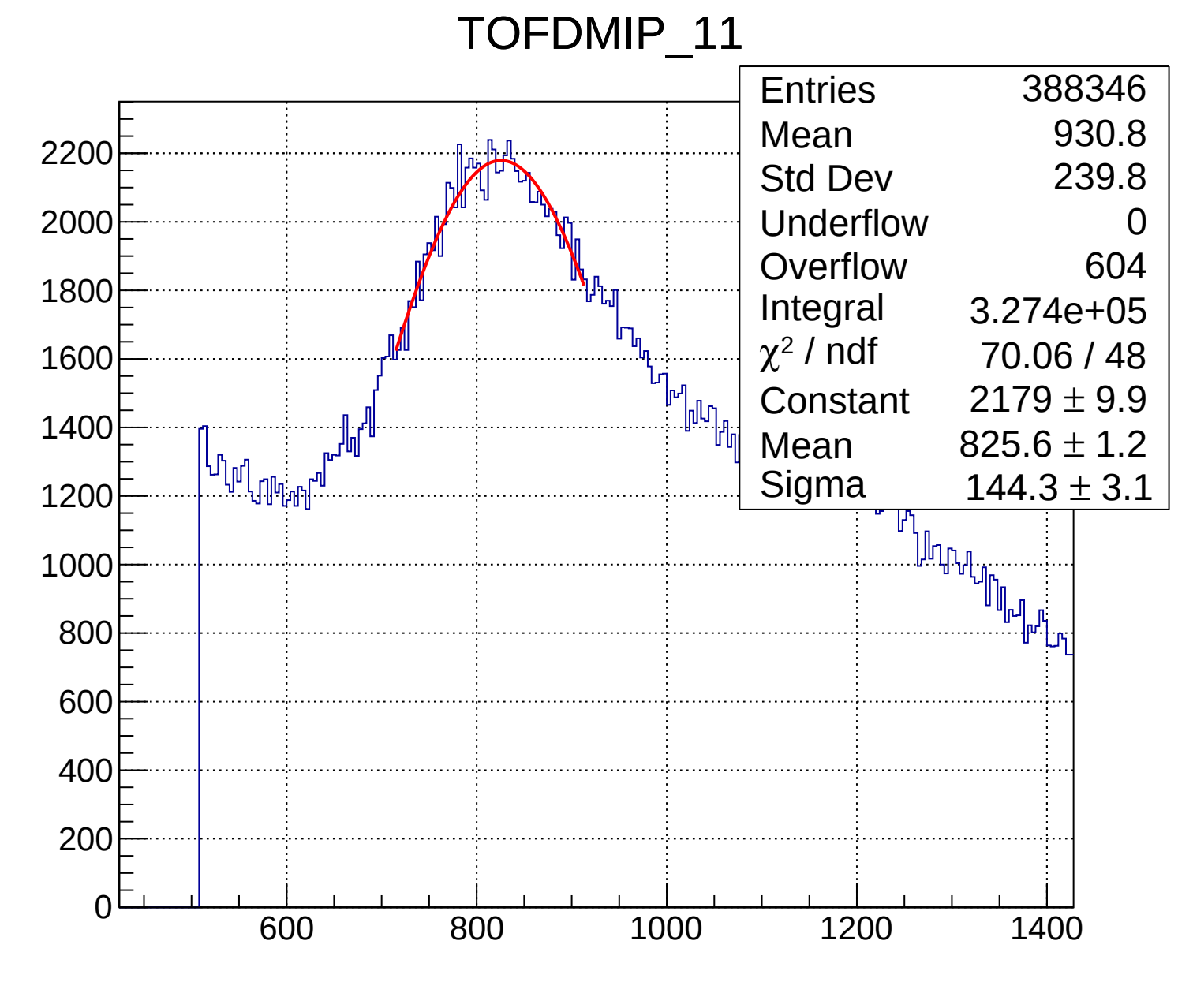

TOFDMIP_6
Entries 404770
Mean 1090
Std Dev 235.4
Underflow 0
Overflow 1457
Integral 3.255e+05
χ² / ndf 84.3 / 48
Constant 2177 ± 9.8
Mean 981.2 ± 2.4
Sigma 208.1 ± 9.0
2400
2200
2000
1800
1600
1400
1200
1000
800
600
400
600
800
1000
1200
1400

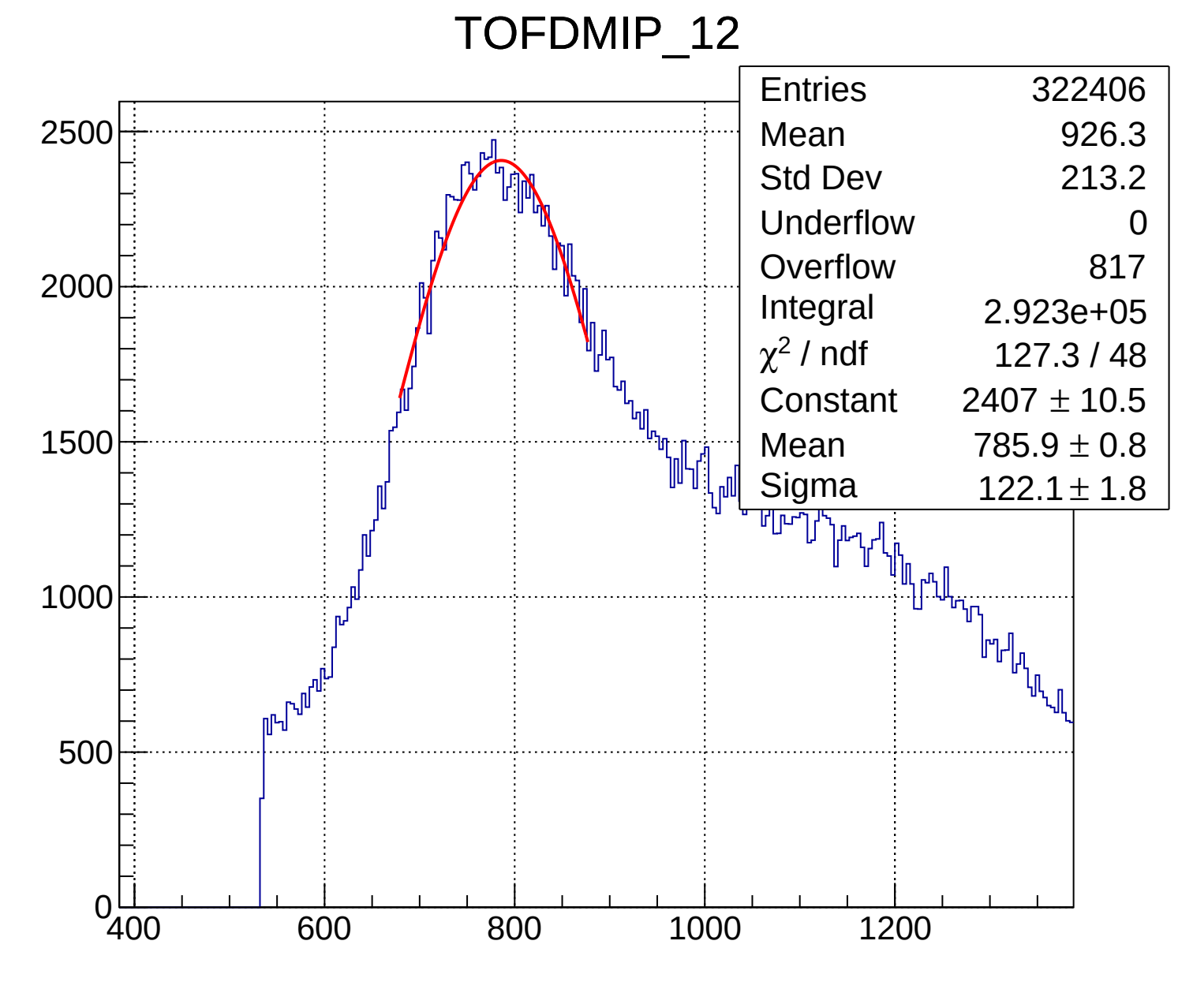

TOFDMIP_7
Entries 204819
Mean 937.2
Std Dev 203.4
Underflow 0
Overflow 476
Integral 1.718e+05
χ² / ndf 93.72 / 48
Constant 1432 ± 7.8
Mean 749.6 ± 1.3
Sigma 117 ± 2.1
0
200
400
600
800
1000
1200
1400
400
600
800
1000
1200

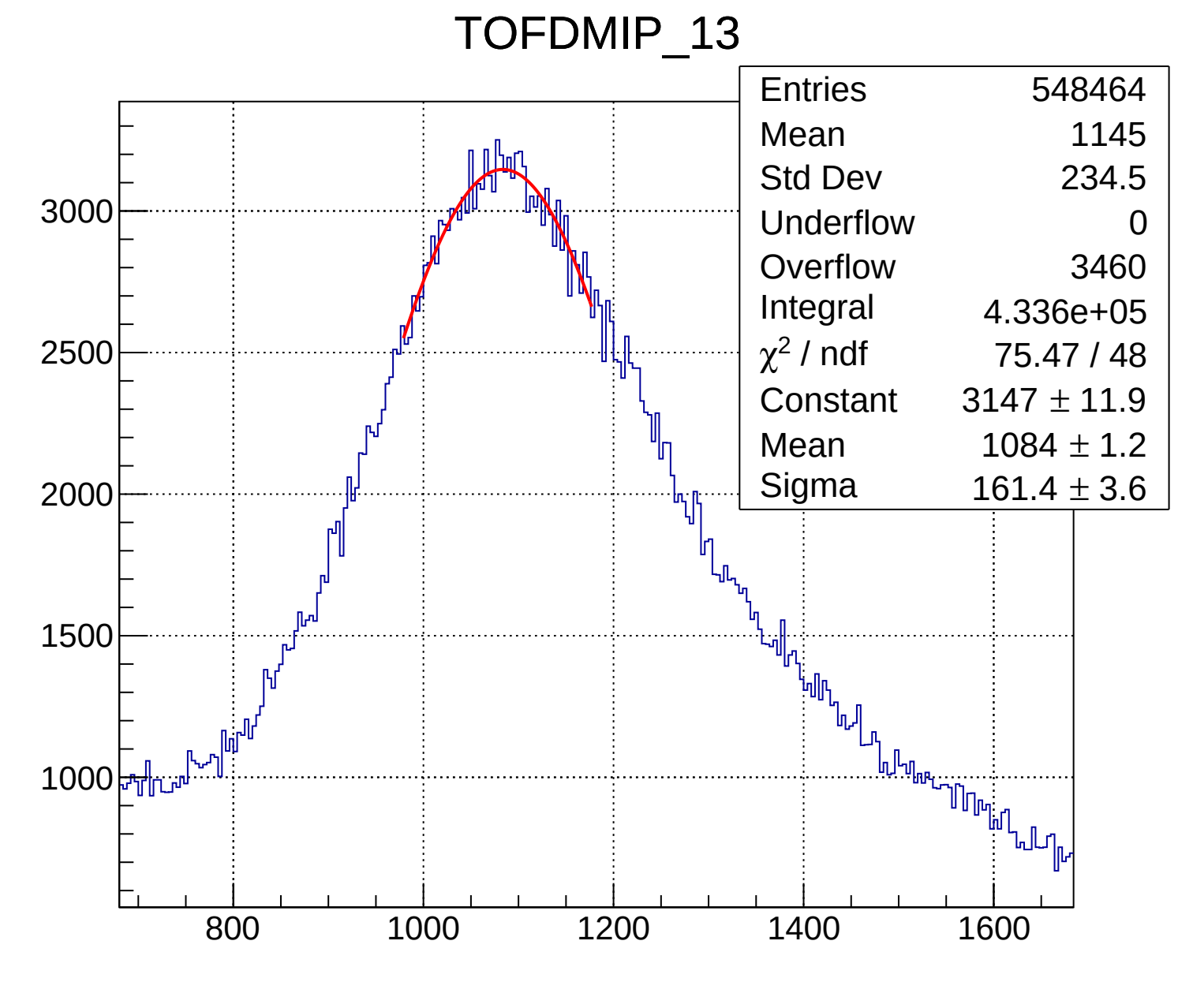

TOFDMIP_8
Entries 278243
Mean 969
Std Dev 225.2
Underflow 0
Overflow 197
Integral 2.436e+05
χ² / ndf 105.3 / 48
Constant 1602 ± 8.5
Mean 787 ± 1.3
Sigma 136.8 ± 3.1
0
200
400
600
800
1000
1200
1400
1600
400
600
800
1000
1200

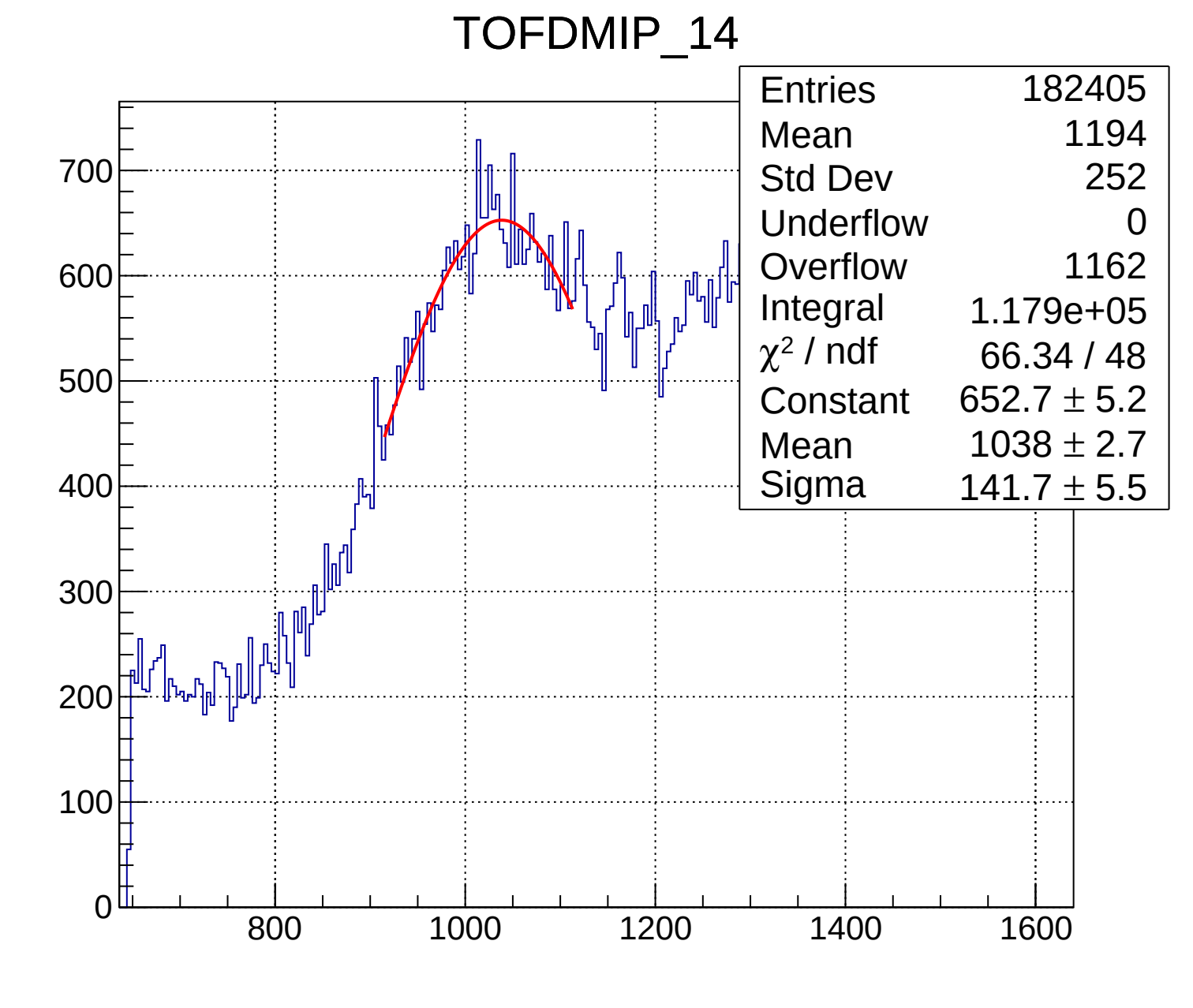

TOFDMIP_9
Entries 266007
Mean 919.6
Std Dev 220.9
Underflow 0
Overflow 609
Integral 2.318e+05
χ² / ndf 109.3 / 48
Constant 1446 ± 8.0
Mean 745.1 ± 2.3
Sigma 180.7 ± 7.4
1600
1400
1200
1000
800
600
400
200
0
400
600
800
1000
1200

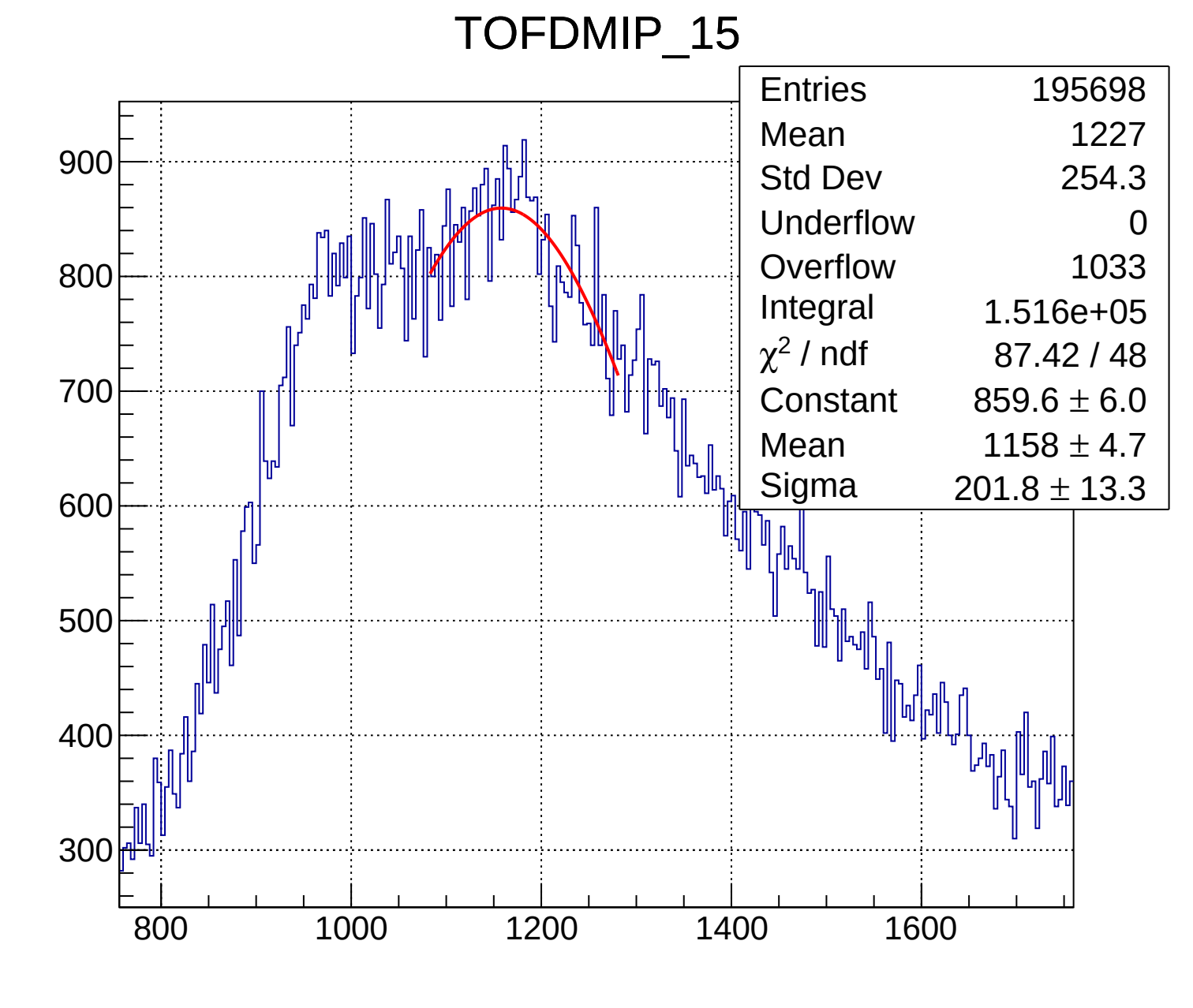

TOFDMIP_10
Entries 385086
Mean 905.6
Std Dev 235.2
Underflow 0
Overflow 457
Integral 3.484e+05
χ² / ndf 99.46 / 48
Constant 2180 ± 9.9
Mean 752.3 ± 1.3
Sigma 143.3 ± 3.1
2400
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
400
600
800
1000
1200

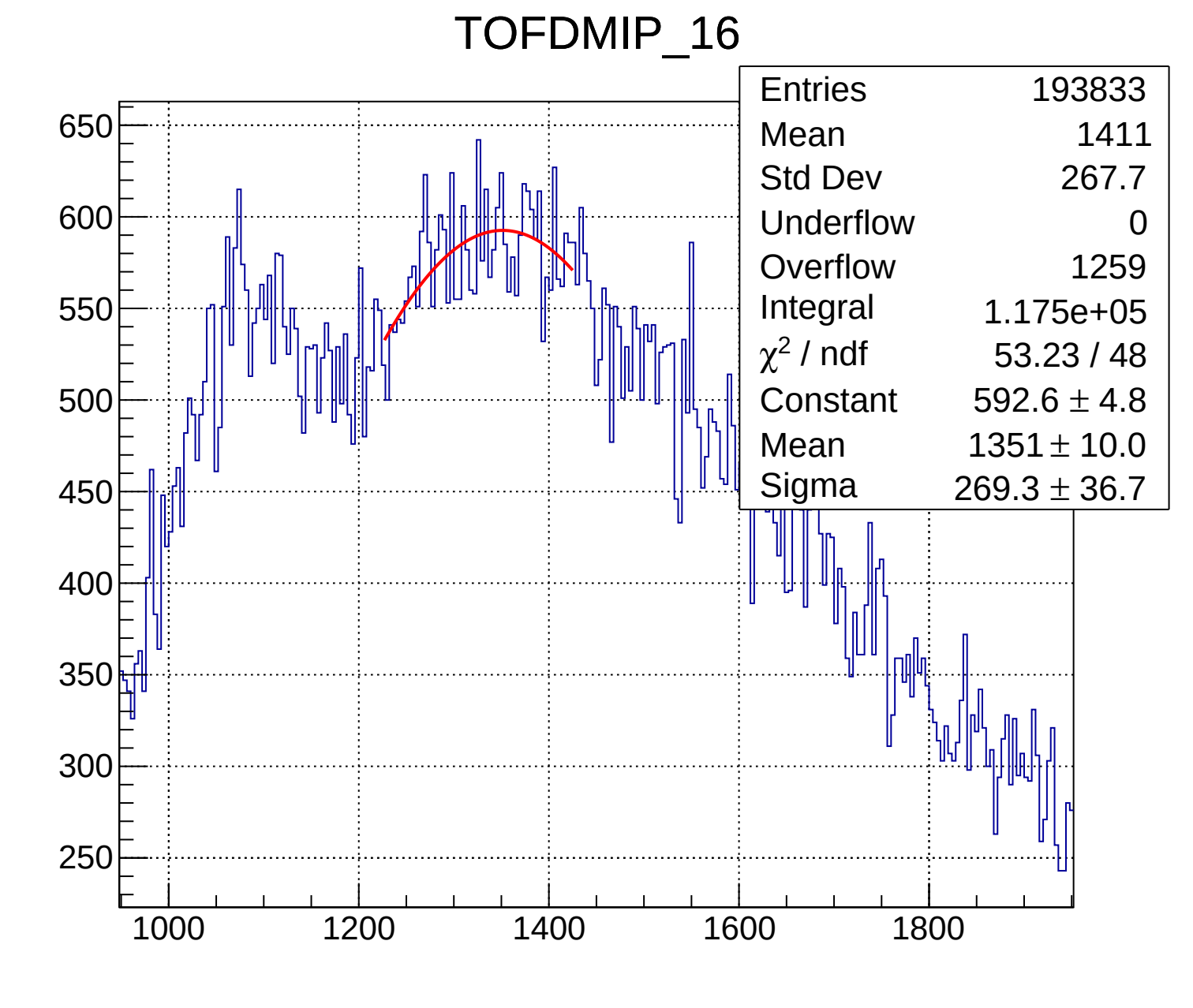

TOFDMIP_11
Entries 388346
Mean 930.8
Std Dev 239.8
Underflow 0
Overflow 604
Integral 3.274e+05
χ² / ndf 70.06 / 48
Constant 2179 ± 9.9
Mean 825.6 ± 1.2
Sigma 144.3 ± 3.1
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
600
800
1000
1200
1400

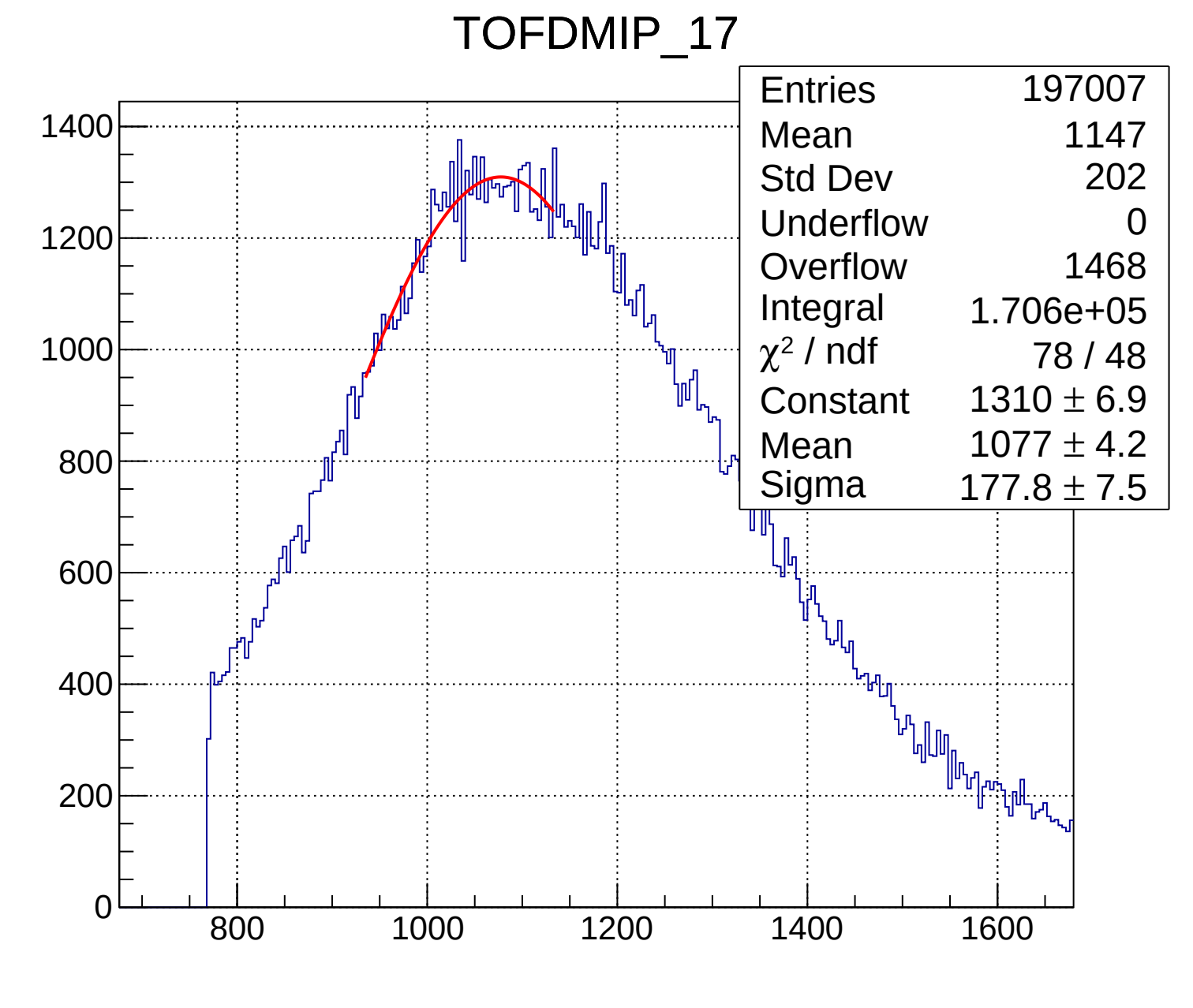

TOFDMIP_12
Entries 322406
Mean 926.3
Std Dev 213.2
Underflow 0
Overflow 817
Integral 2.923e+05
χ² / ndf 127.3 / 48
Constant 2407 ± 10.5
Mean 785.9 ± 0.8
Sigma 122.1 ± 1.8
2500
2000
1500
1000
500
0
400
600
800
1000
1200

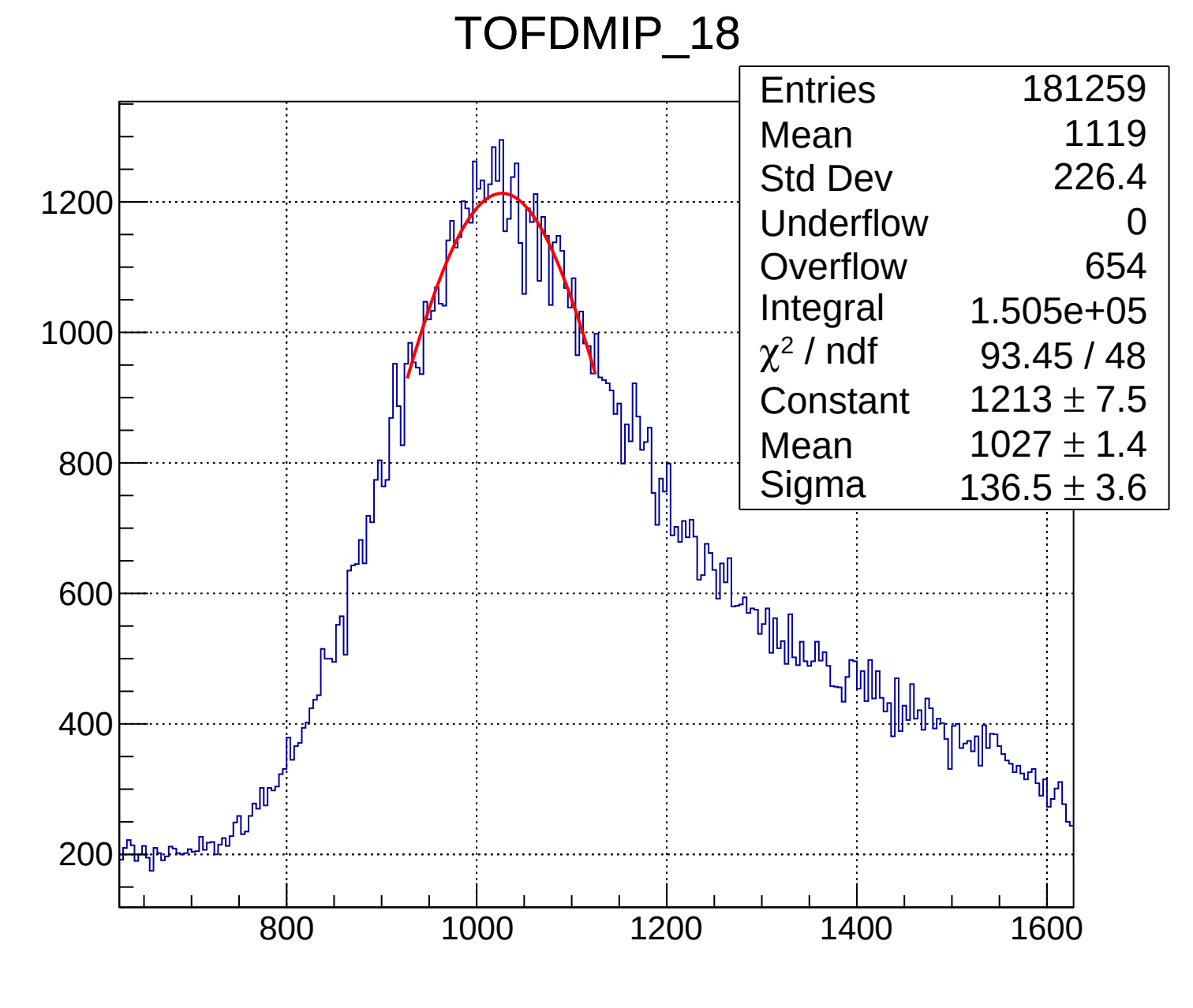

TOFDMIP_13
Entries 548464
Mean 1145
Std Dev 234.5
Underflow 0
Overflow 3460
Integral 4.336e+05
χ² / ndf 75.47 / 48
Constant 3147 ± 11.9
Mean 1084 ± 1.2
Sigma 161.4 ± 3.6
3000
2500
2000
1500
1000
800
1000
1200
1400
1600

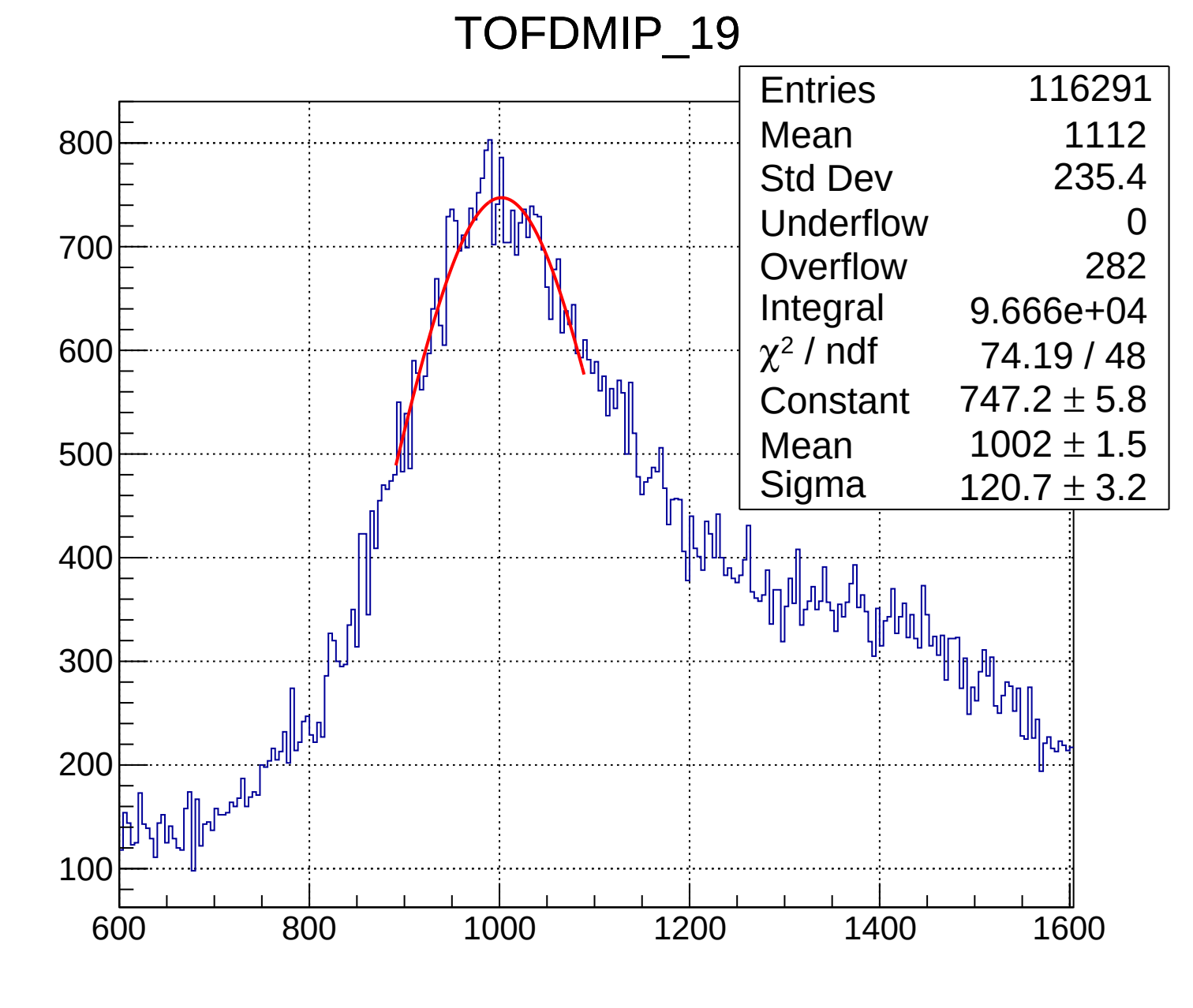

TOFDMIP_14
Entries 182405
Mean 1194
Std Dev 252
Underflow 0
Overflow 1162
Integral 1.179e+05
χ² / ndf 66.34 / 48
Constant 652.7 ± 5.2
Mean 1038 ± 2.7
Sigma 141.7 ± 5.5
0
100
200
300
400
500
600
700
800
1000
1200
1400
1600

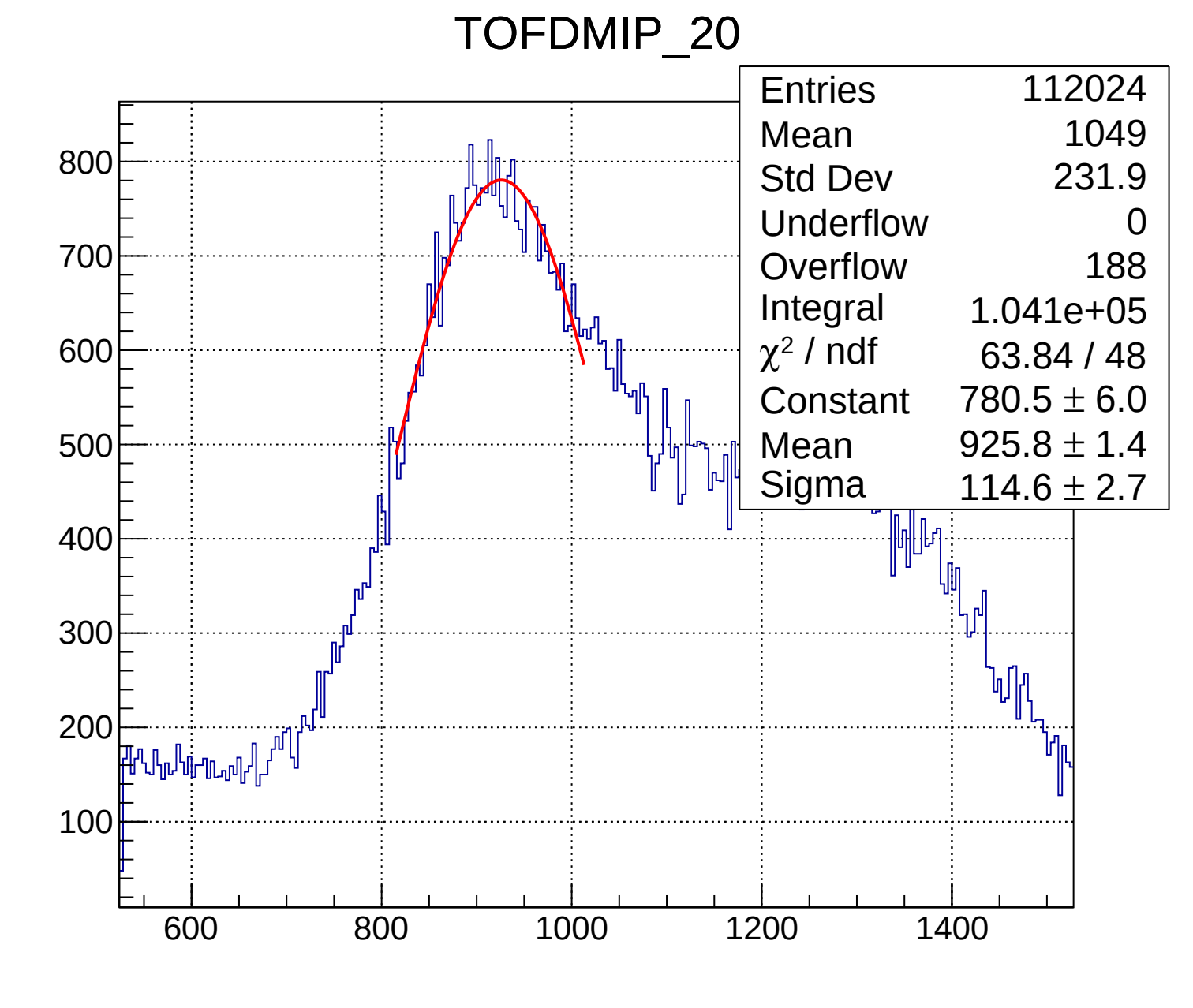

TOFDMIP_15
Entries 195698
Mean 1227
Std Dev 254.3
Underflow 0
Overflow 1033
Integral 1.516e+05
χ² / ndf 87.42 / 48
Constant 859.6 ± 6.0
Mean 1158 ± 4.7
Sigma 201.8 ± 13.3
900
800
700
600
500
400
300
800
1000
1200
1400
1600

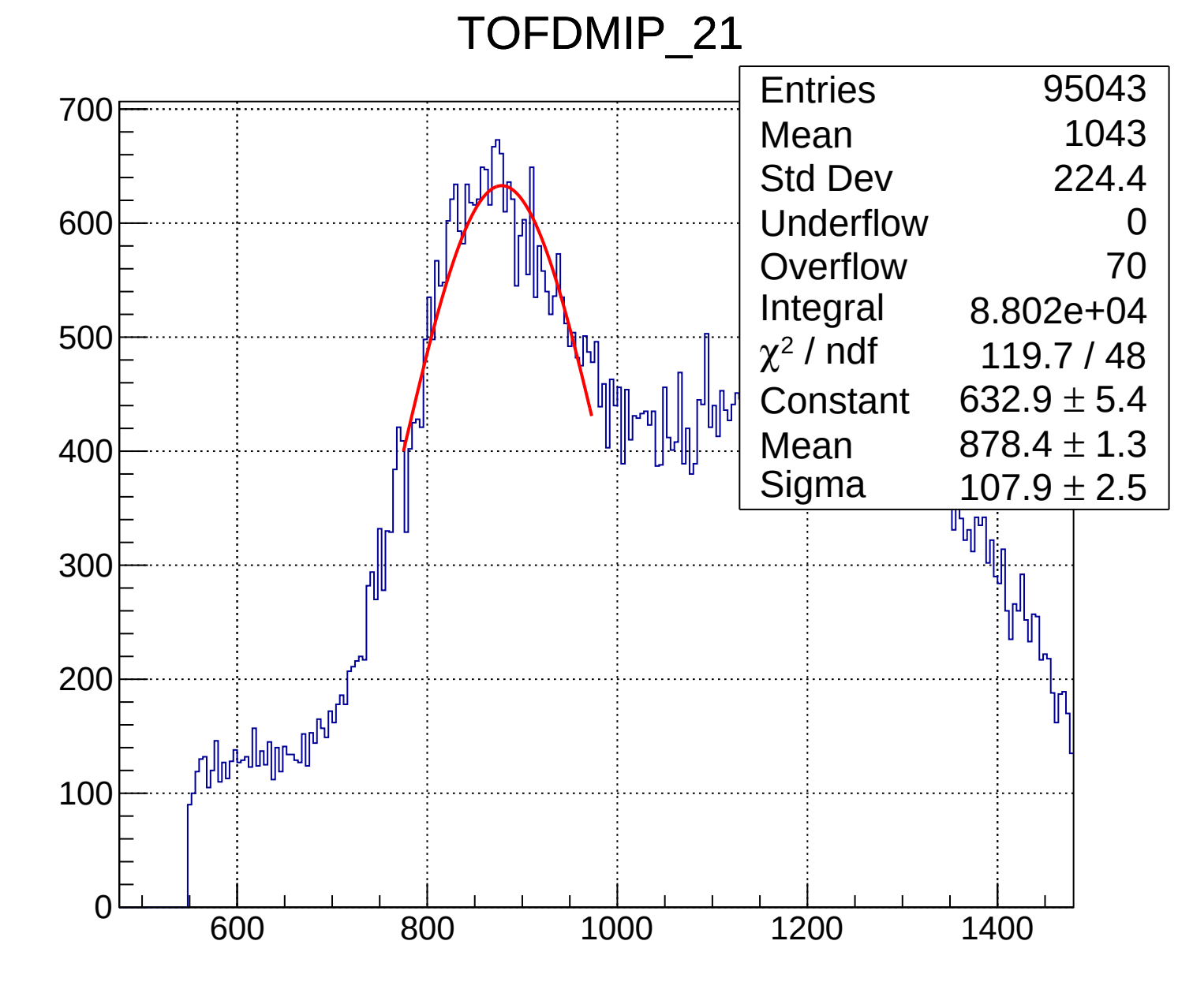

TOFDMIP_16
Entries 193833
Mean 1411
Std Dev 267.7
Underflow 0
Overflow 1259
Integral 1.175e+05
χ² / ndf 53.23 / 48
Constant 592.6 ± 4.8
Mean 1351 ± 10.0
Sigma 269.3 ± 36.7
650
600
550
500
450
400
350
300
250
1000
1200
1400
1600
1800

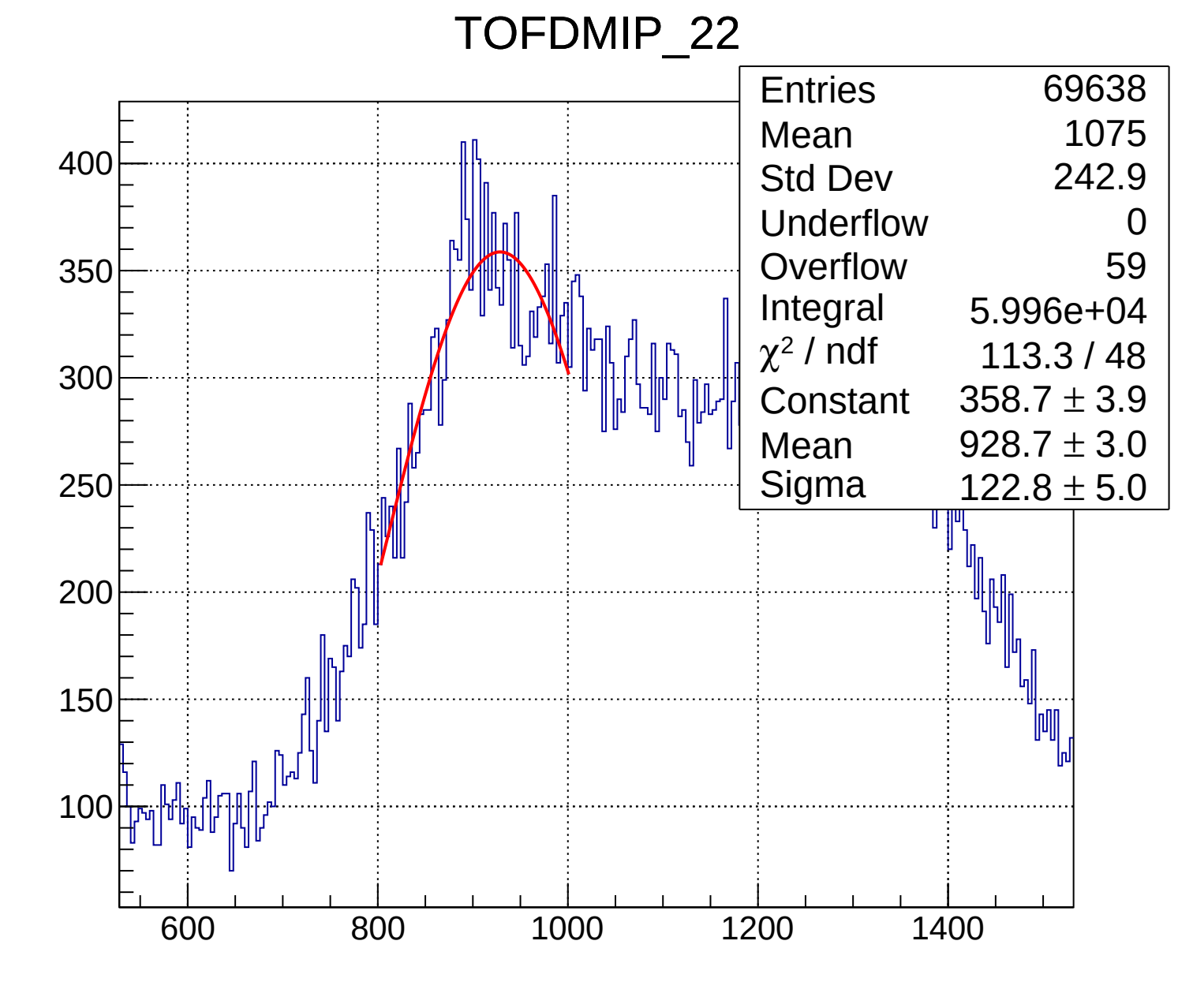

TOFDMIP_17
Entries 197007
Mean 1147
Std Dev 202
Underflow 0
Overflow 1468
Integral 1.706e+05
χ² / ndf 78 / 48
Constant 1310 ± 6.9
Mean 1077 ± 4.2
Sigma 177.8 ± 7.5
1400
1200
1000
800
600
400
200
0
800
1000
1200
1400
1600

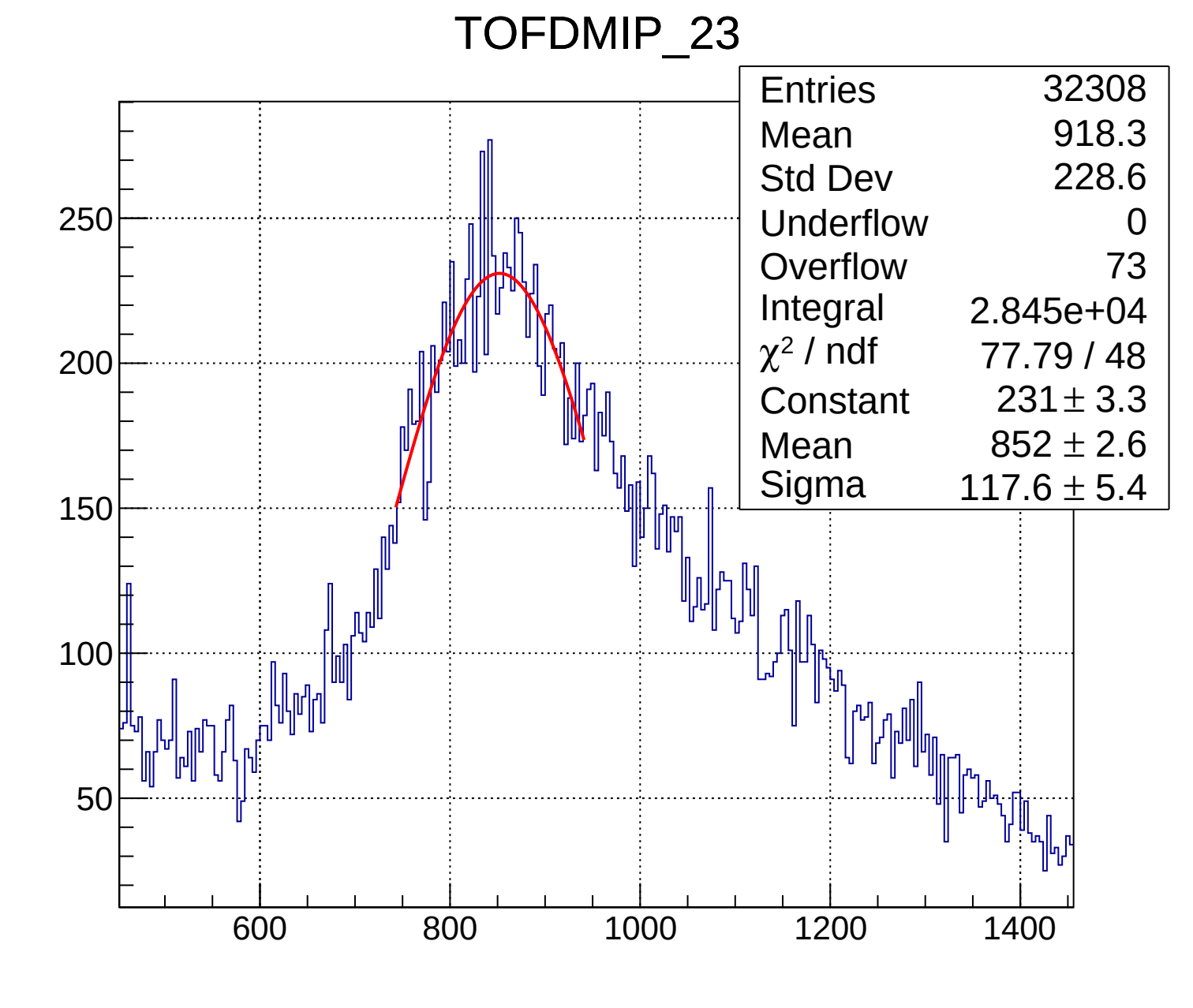

TOFDMIP_18
Entries 181259
Mean 1119
Std Dev 226.4
Underflow 0
Overflow 654
Integral 1.505e+05
χ² / ndf 93.45 / 48
Constant 1213 ± 7.5
Mean 1027 ± 1.4
Sigma 136.5 ± 3.6
1200
1000
800
600
400
200
800
1000
1200
1400
1600

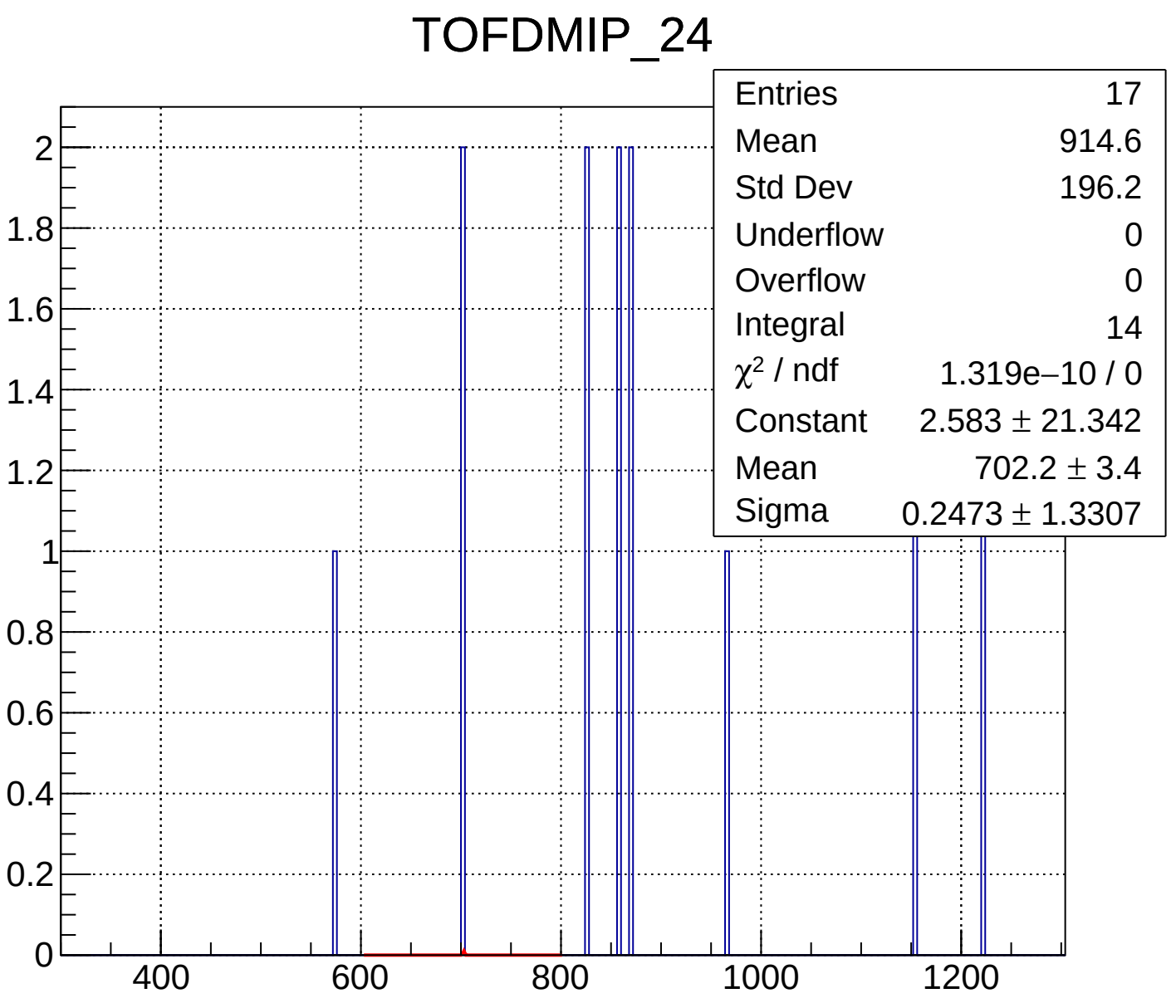

TOFDMIP_19
Entries 116291
Mean 1112
Std Dev 235.4
Underflow 0
Overflow 282
Integral 9.666e+04
χ² / ndf 74.19 / 48
Constant 747.2 ± 5.8
Mean 1002 ± 1.5
Sigma 120.7 ± 3.2
800
700
600
500
400
300
200
100
600
800
1000
1200
1400
1600

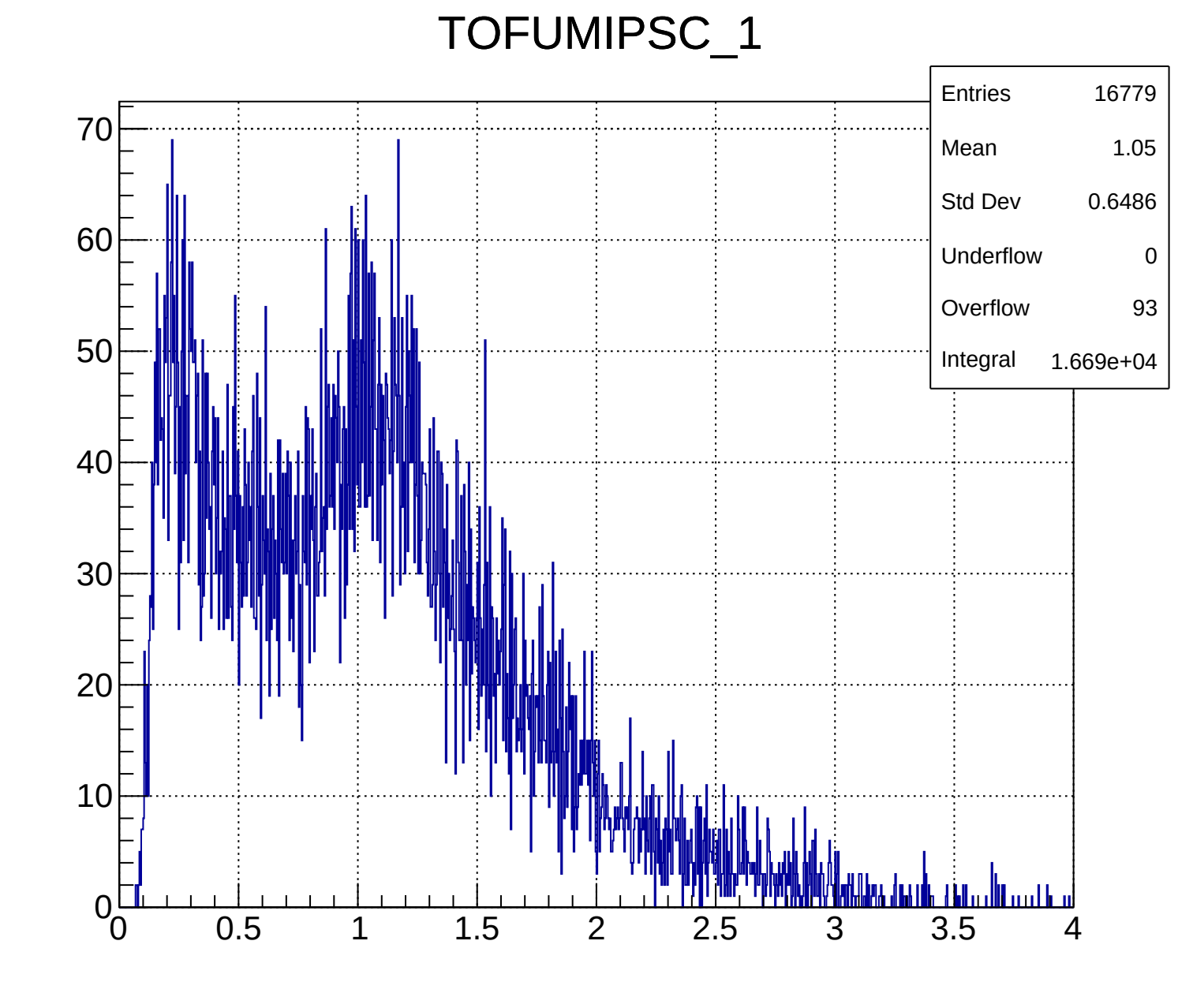

TOFDMIP_20
Entries 112024
Mean 1049
Std Dev 231.9
Underflow 0
Overflow 188
Integral 1.041e+05
χ² / ndf 63.84 / 48
Constant 780.5 ± 6.0
Mean 925.8 ± 1.4
Sigma 114.6 ± 2.7
800
700
600
500
400
300
200
100
600
800
1000
1200
1400

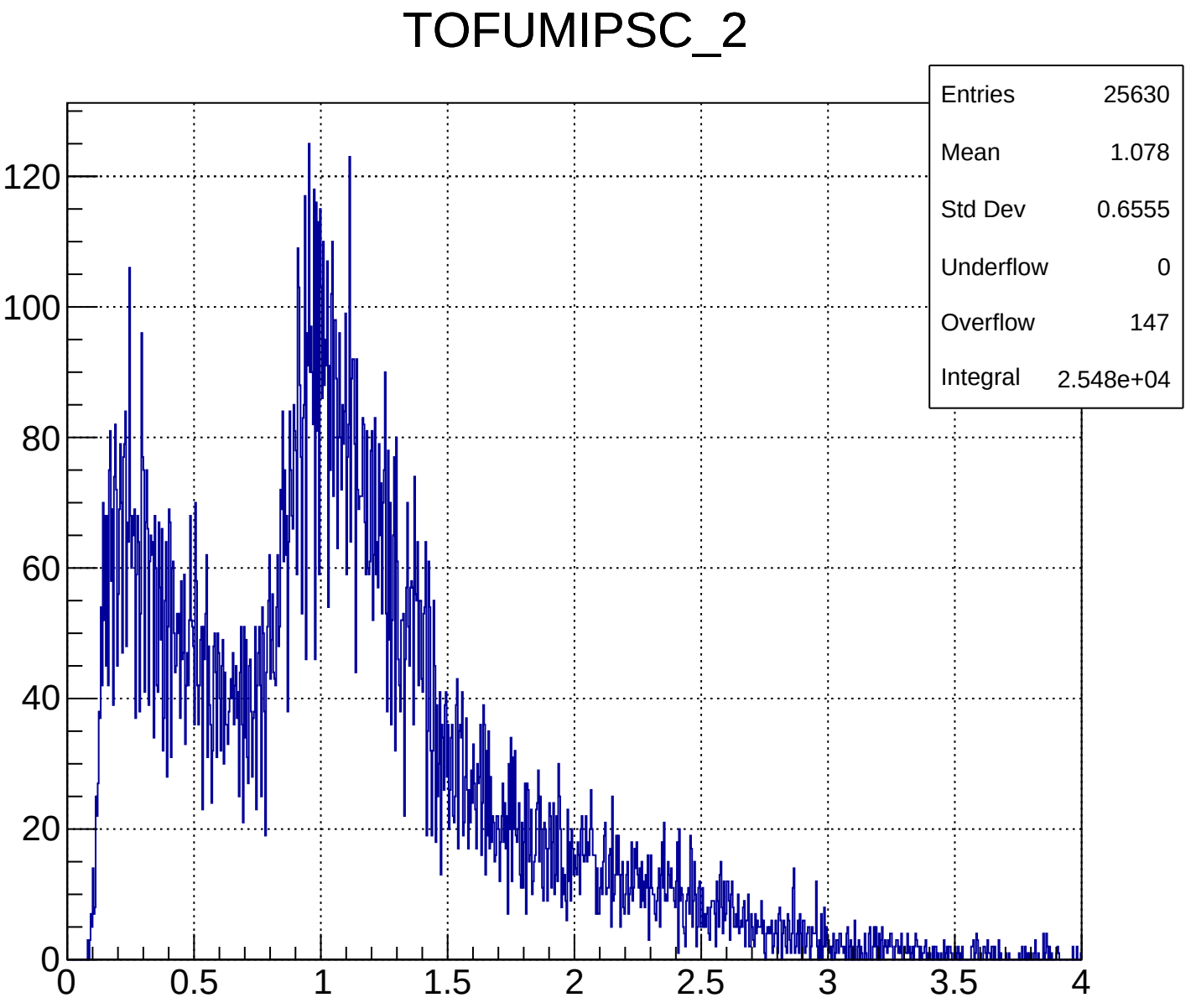

TOFDMIP_21
Entries 95043
Mean 1043
Std Dev 224.4
Underflow 0
Overflow 70
Integral 8.802e+04
χ² / ndf 119.7 / 48
Constant 632.9 ± 5.4
Mean 878.4 ± 1.3
Sigma 107.9 ± 2.5
700
600
500
400
300
200
100
0
600
800
1000
1200
1400

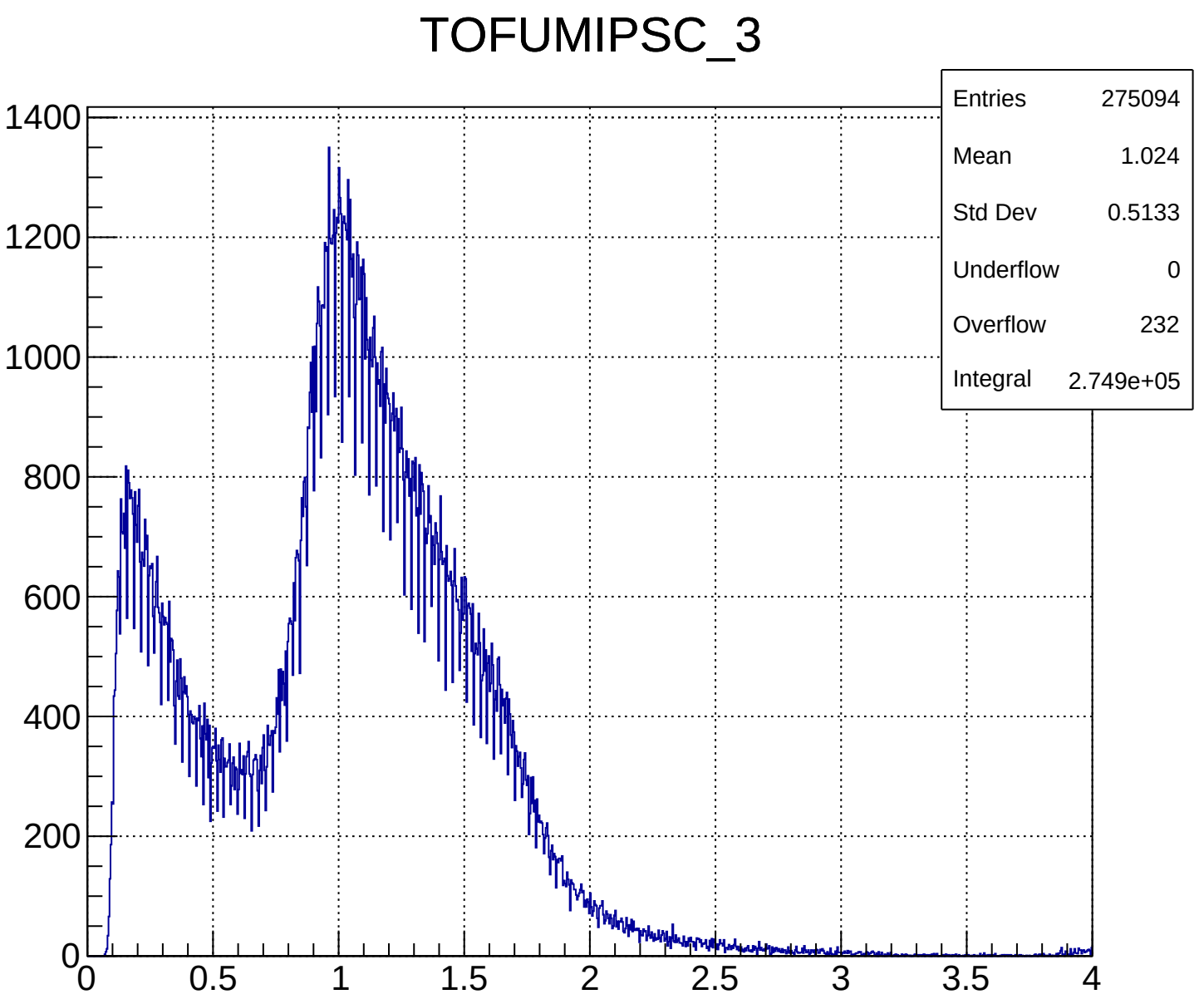

TOFDMIP_22
Entries 69638
Mean 1075
Std Dev 242.9
Underflow 0
Overflow 59
Integral 5.996e+04
χ² / ndf 113.3 / 48
Constant 358.7 ± 3.9
Mean 928.7 ± 3.0
Sigma 122.8 ± 5.0
400
350
300
250
200
150
100
600
800
1000
1200
1400

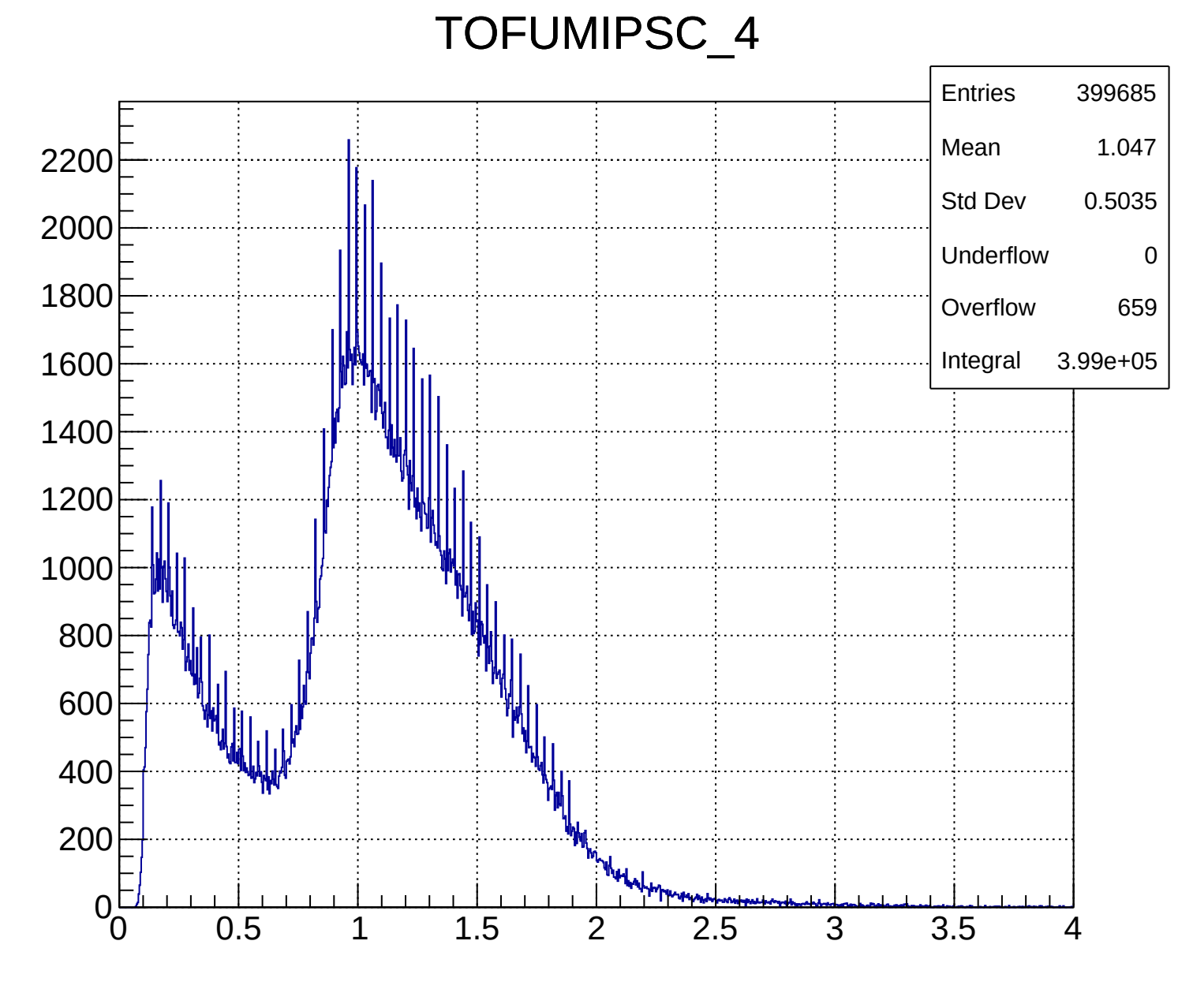

TOFDMIP_23
Entries 32308
Mean 918.3
Std Dev 228.6
Underflow 0
Overflow 73
Integral 2.845e+04
χ² / ndf 77.79 / 48
Constant 231 ± 3.3
Mean 852 ± 2.6
Sigma 117.6 ± 5.4
250
200
150
100
50
600
800
1000
1200
1400

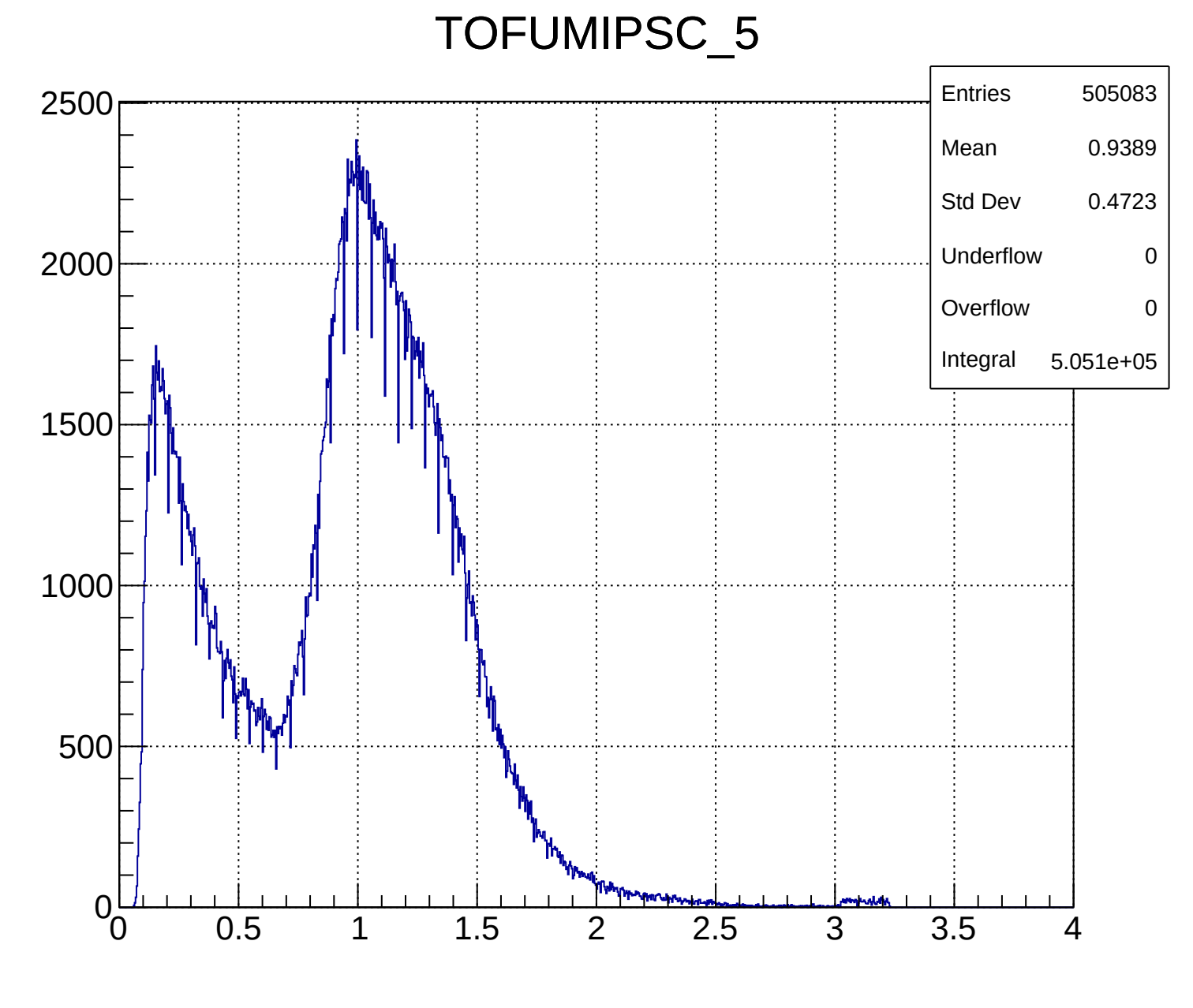

TOFDMIP_24
Entries 17
Mean 914.6
Std Dev 196.2
Underflow 0
Overflow 0
Integral 14
χ² / ndf 1.319e−10 / 0
Constant 2.583 ± 21.342
Mean 702.2 ± 3.4
Sigma 0.2473 ± 1.3307
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
400
600
800
1000
1200

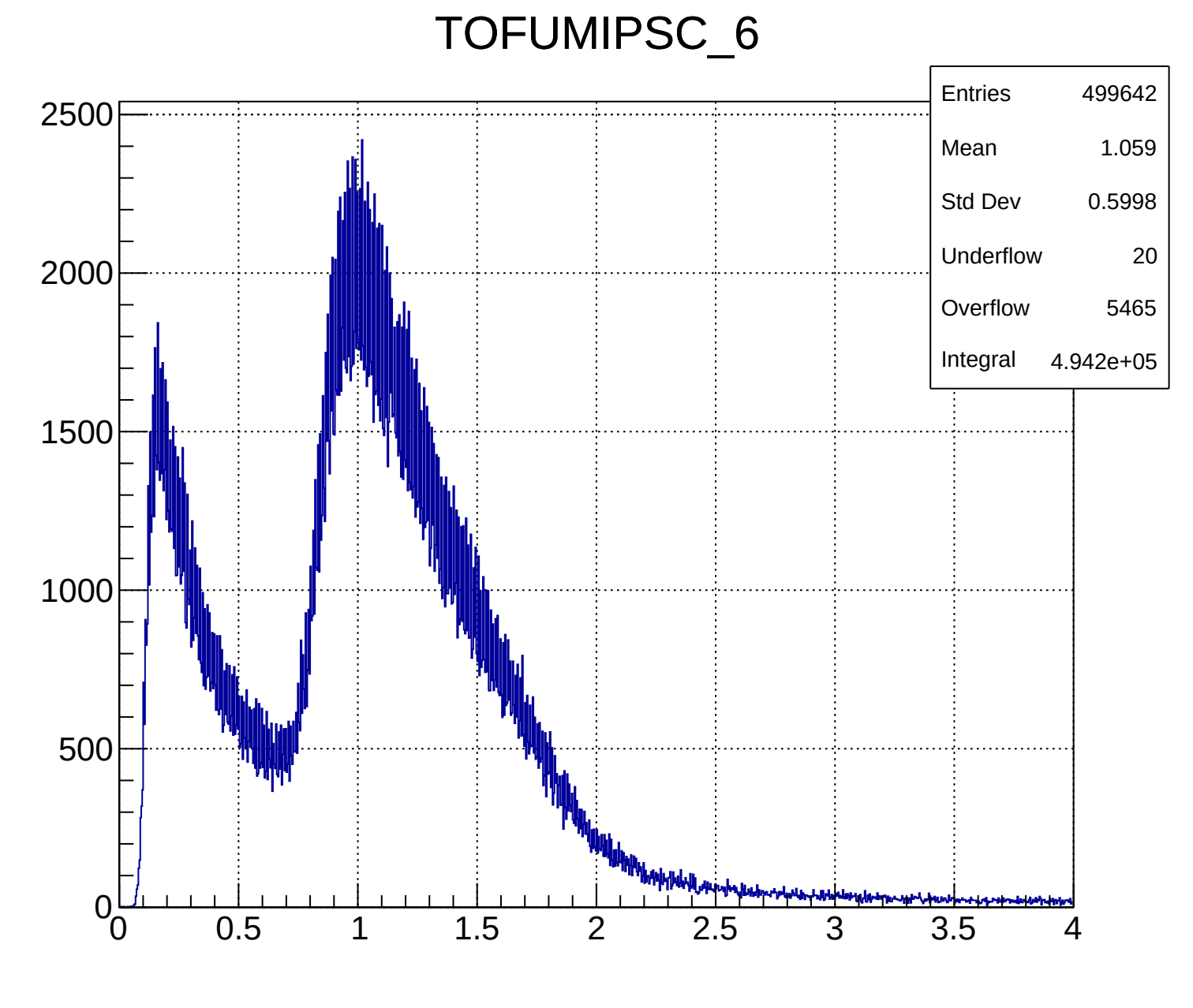

TOFUMIPSC_1
Entries 16779
Mean 1.05
Std Dev 0.6486
Underflow 0
Overflow 93
Integral 1.669e+04
0
10
20
30
40
50
60
70
0
0.5
1
1.5
2
2.5
3
3.5
4


TOFUMIPSC_2
Entries 25630
Mean 1.078
Std Dev 0.6555
Underflow 0
Overflow 147
Integral 2.548e+04
120
100
80
60
40
20
0
0
0.5
1
1.5
2
2.5
3
3.5
4


TOFUMIPSC_3
Entries 275094
Mean 1.024
Std Dev 0.5133
Underflow 0
Overflow 232
Integral 2.749e+05
1400
1200
1000
800
600
400
200
0
0
0.5
1
1.5
2
2.5
3
3.5
4


TOFUMIPSC_4
Entries 399685
Mean 1.047
Std Dev 0.5035
Underflow 0
Overflow 659
Integral 3.99e+05
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
0
0.5
1
1.5
2
2.5
3
3.5
4


TOFUMIPSC_5
Entries 505083
Mean 0.9389
Std Dev 0.4723
Underflow 0
Overflow 0
Integral 5.051e+05
2500
2000
1500
1000
500
0
0
0.5
1
1.5
2
2.5
3
3.5
4


TOFUMIPSC_6
Entries 499642
Mean 1.059
Std Dev 0.5998
Underflow 20
Overflow 5465
Integral 4.942e+05
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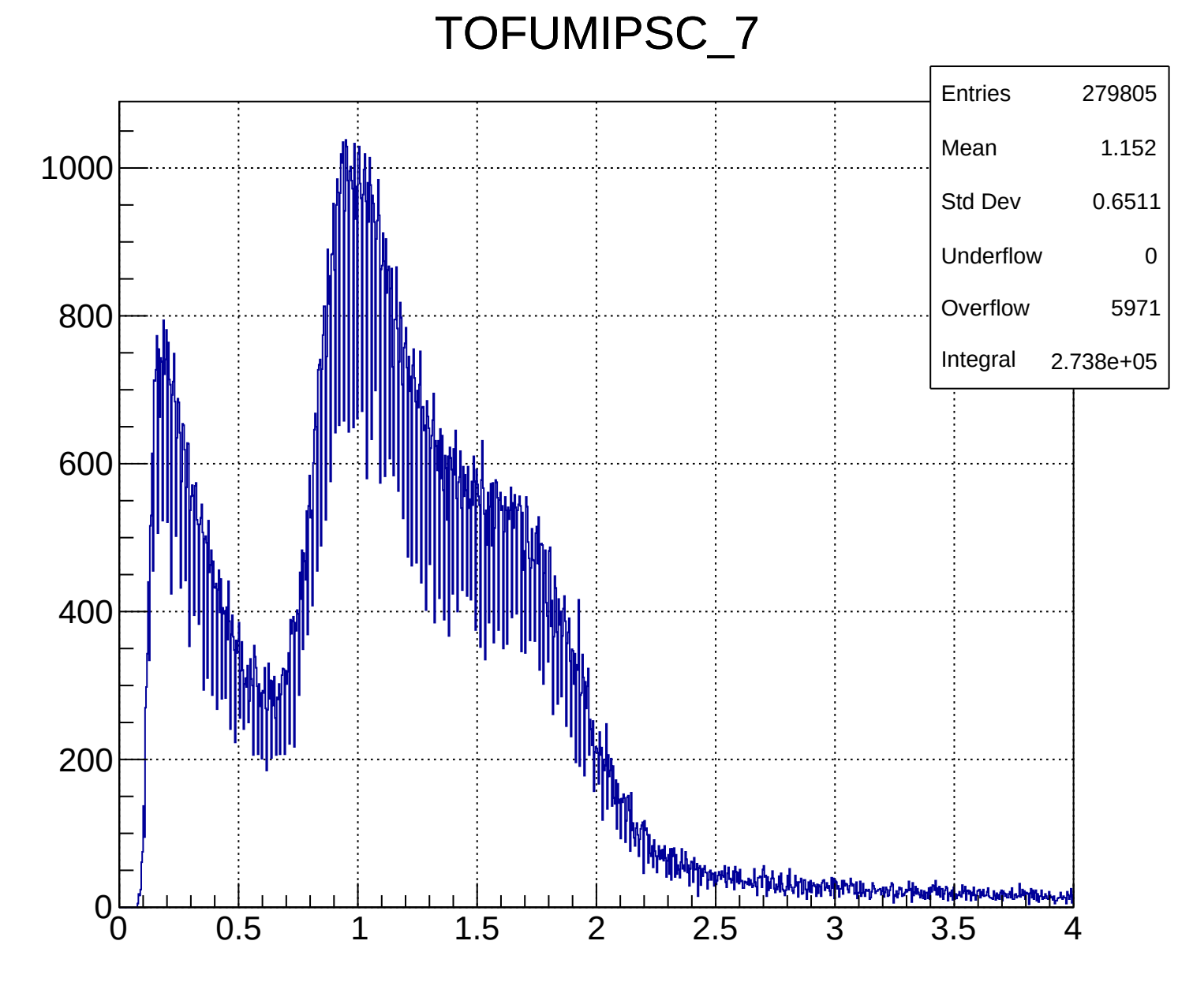
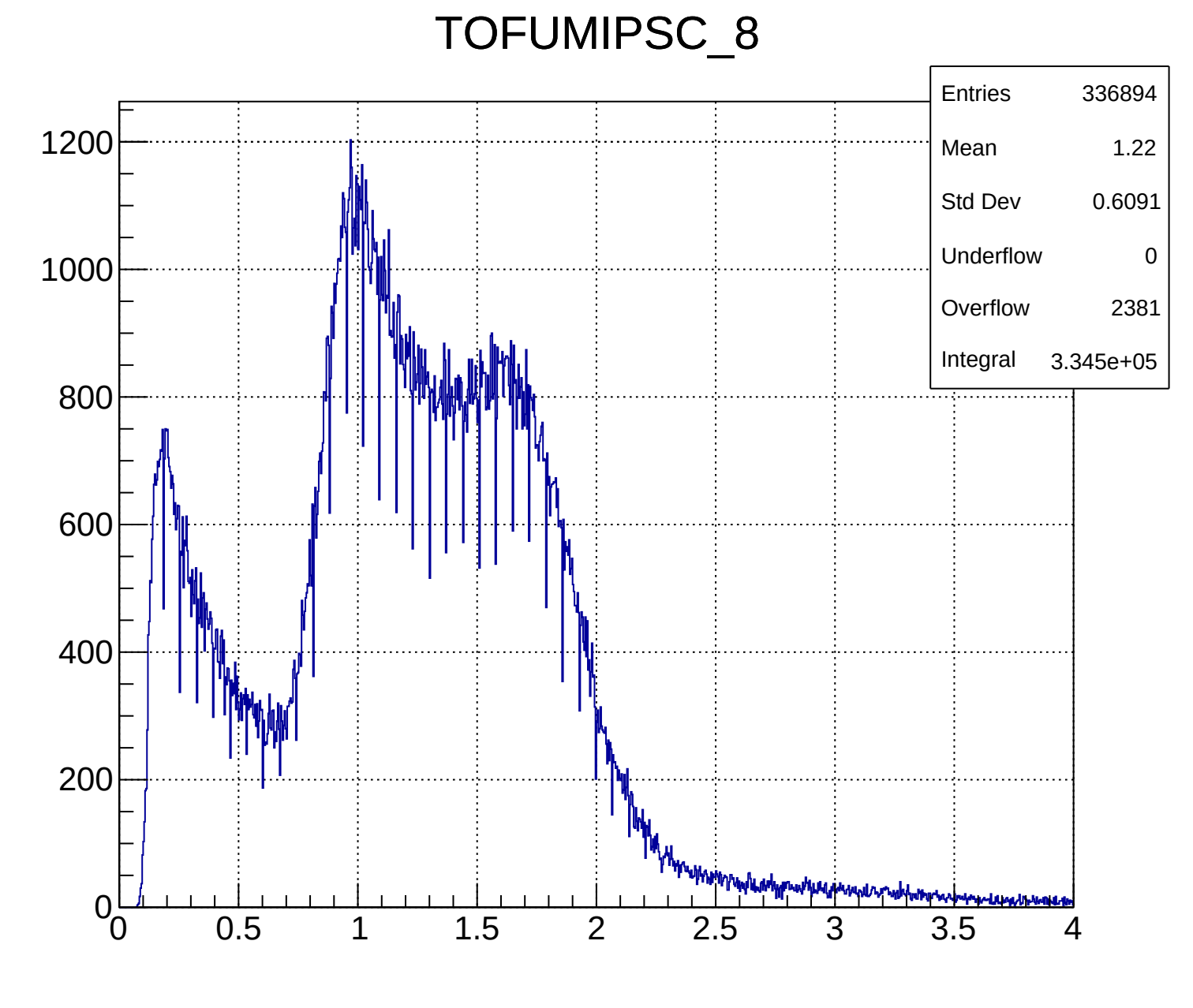
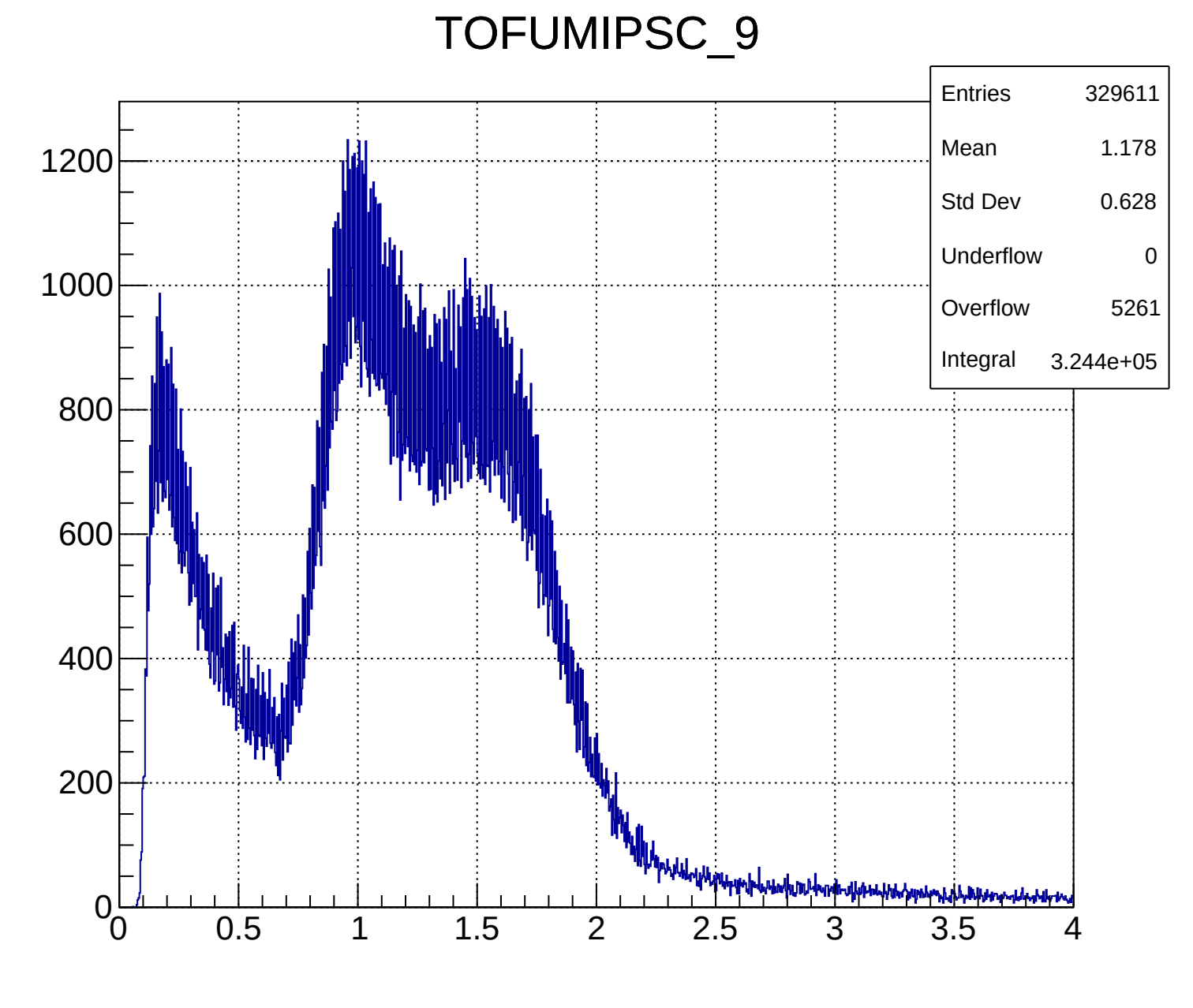
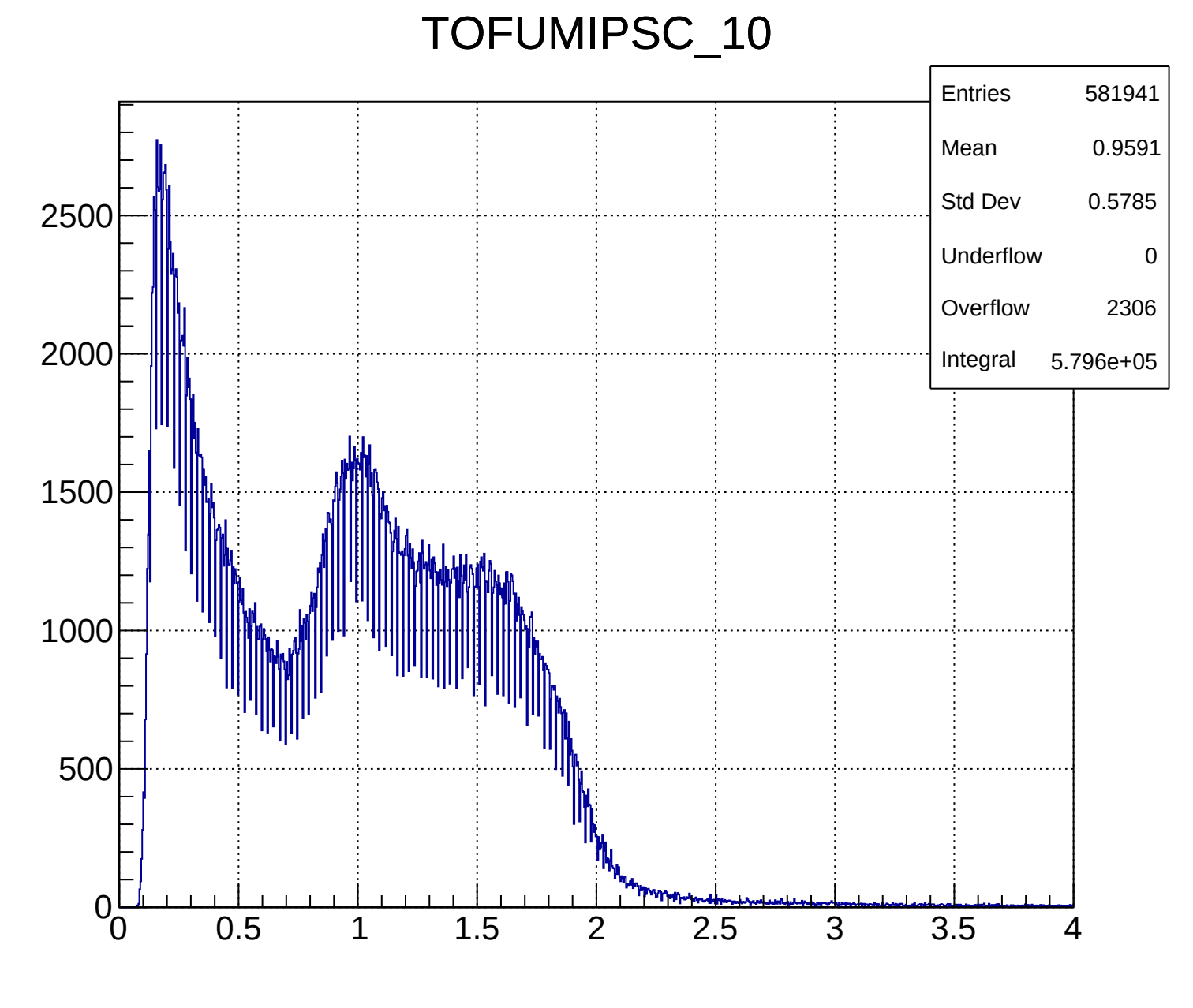
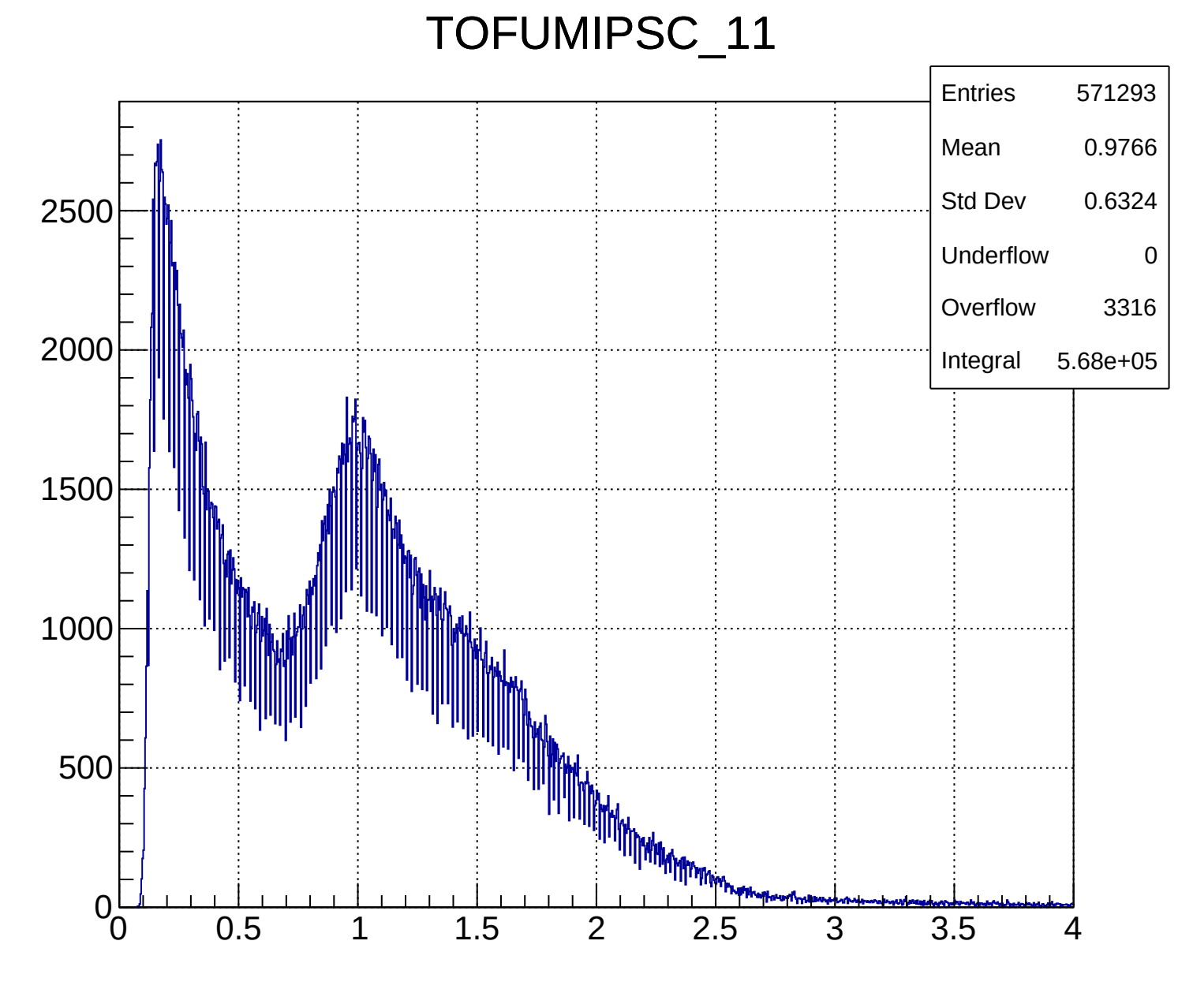
2000
1500
1000
500
0
0
0.5
1
1.5
2
2.5
3
3.5
4

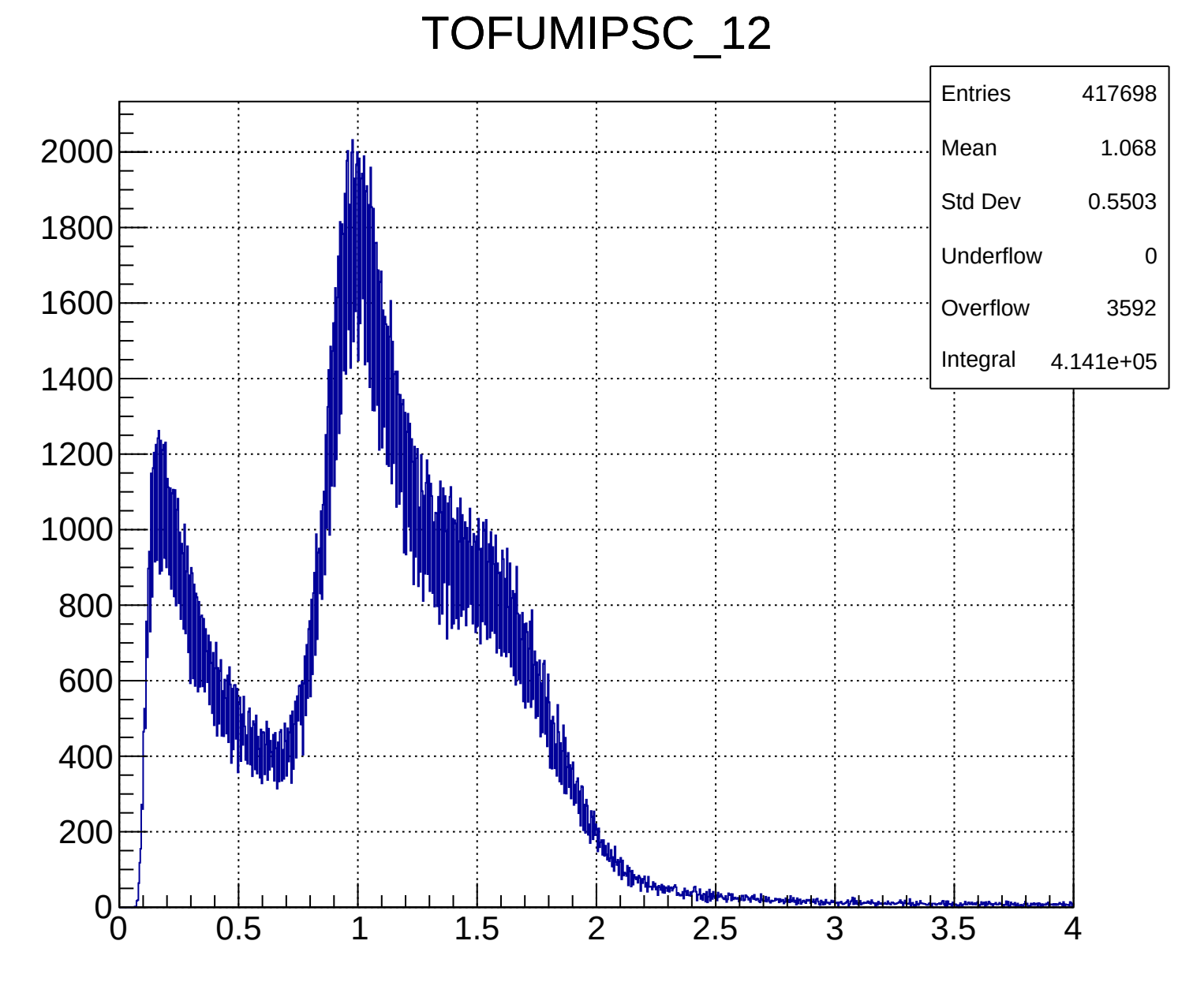

TOFUMIPSC_7
Entries 279805
Mean 1.152
Std Dev 0.6511
Underflow 0
Overflow 5971
Integral 2.738e+05
1000
800
600
400
200
0
0
0.5
1
1.5
2
2.5
3
3.5
4

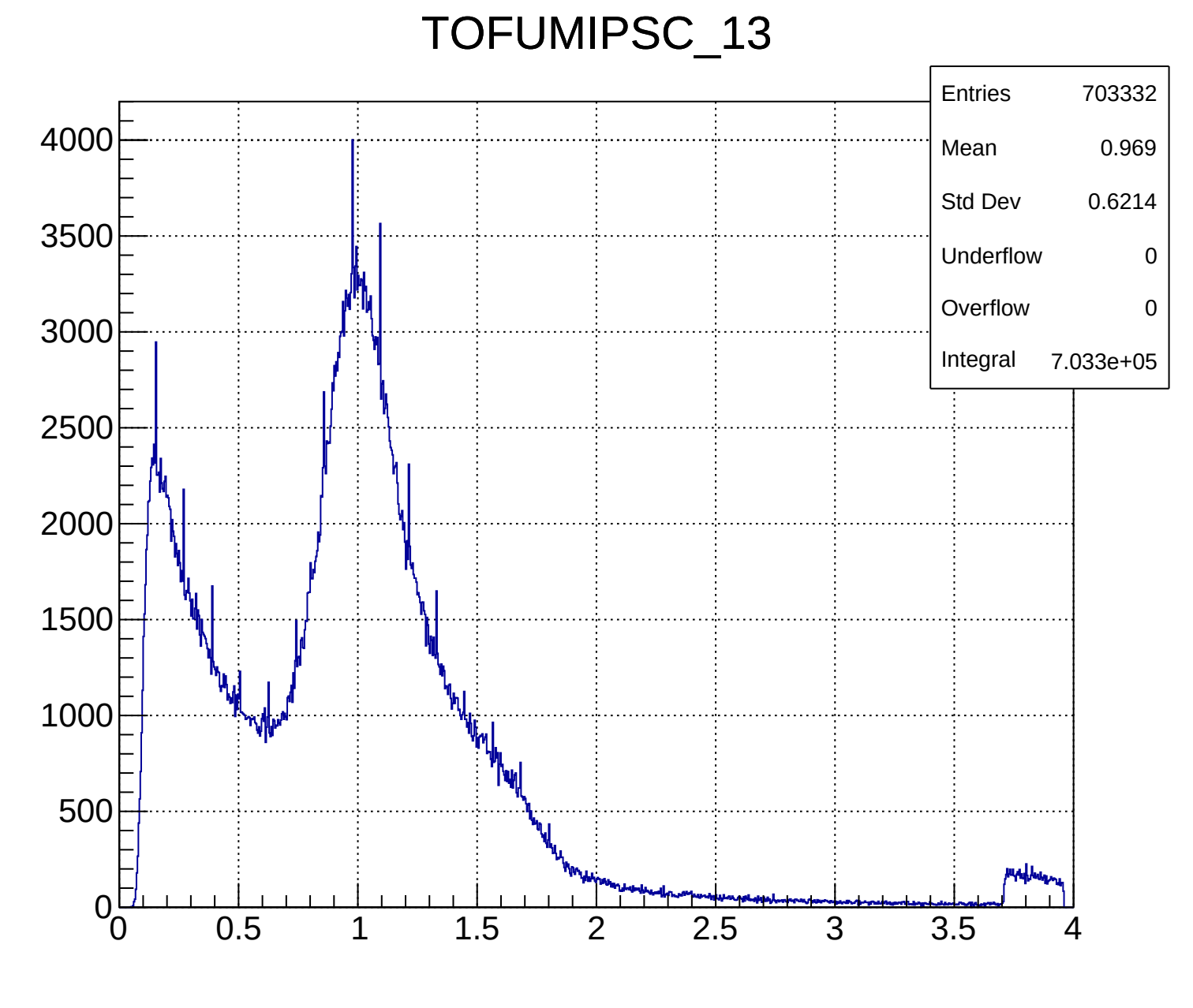

TOFUMIPSC_8
Entries 336894
Mean 1.22
Std Dev 0.6091
Underflow 0
Overflow 2381
Integral 3.345e+05
1200
1000
800
600
400
200
0
0
0.5
1
1.5
2
2.5
3
3.5
4

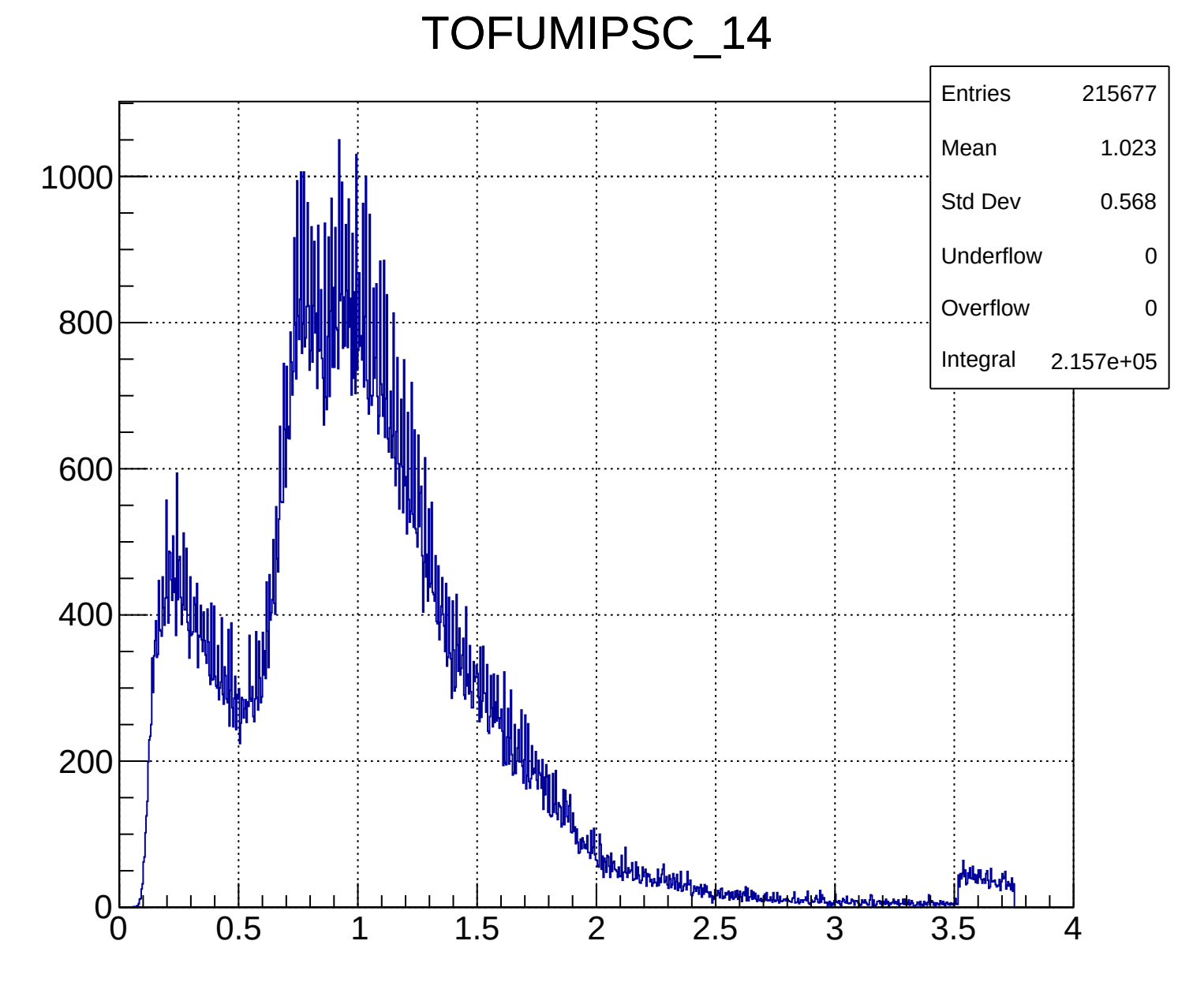

TOFUMIPSC_9
Entries 329611
Mean 1.178
Std Dev 0.628
Underflow 0
Overflow 5261
Integral 3.244e+05
1200
1000
800
600
400
200
0
0
0.5
1
1.5
2
2.5
3
3.5
4


TOFUMIPSC_10
Entries 581941
Mean 0.9591
Std Dev 0.5785
Underflow 0
Overflow 2306
Integral 5.796e+05
2500
2000
1500
1000
500
0
0
0.5
1
1.5
2
2.5
3
3.5
4


TOFUMIPSC_11
Entries 571293
Mean 0.9766
Std Dev 0.6324
Underflow 0
Overflow 3316
Integral 5.68e+05
2500
2000
1500
1000
500
0
0
0.5
1
1.5
2
2.5
3
3.5
4


TOFUMIPSC_12
Entries 417698
Mean 1.068
Std Dev 0.5503
Underflow 0
Overflow 3592
Integral 4.141e+05
2000
1800
1600
1400
1200
1000
800
600
400
200
0
0
0.5
1
1.5
2
2.5
3
3.5
4


TOFUMIPSC_13
Entries 703332
Mean 0.969
Std Dev 0.6214
Underflow 0
Overflow 0
Integral 7.033e+05
4000
3500
3000
2500
2000
1500
1000
500
0
0
0.5
1
1.5
2
2.5
3
3.5
4


TOFUMIPSC_14
Entries 215677
Mean 1.023
Std Dev 0.568
Underflow 0
Overflow 0
Integral 2.157e+05
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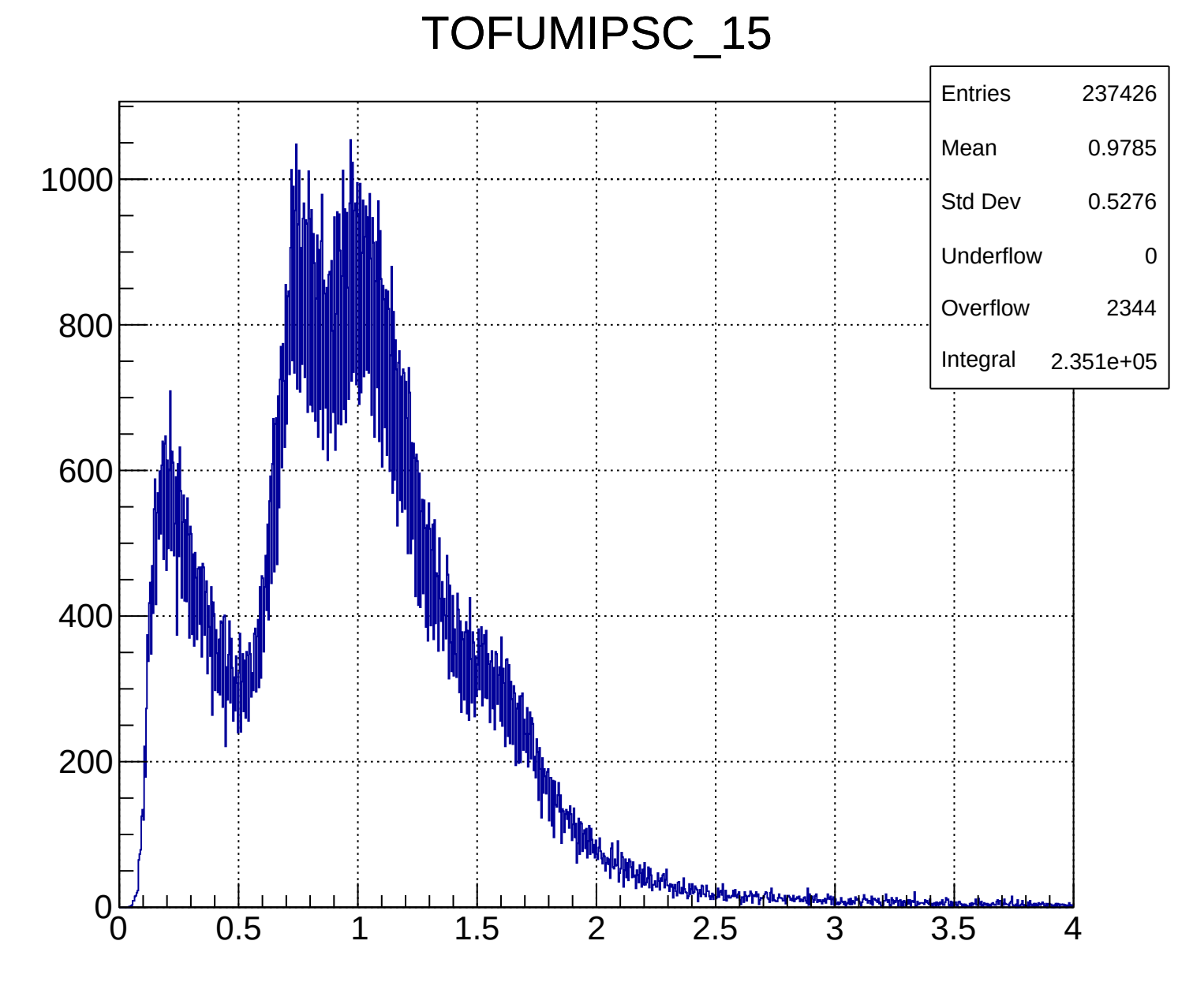
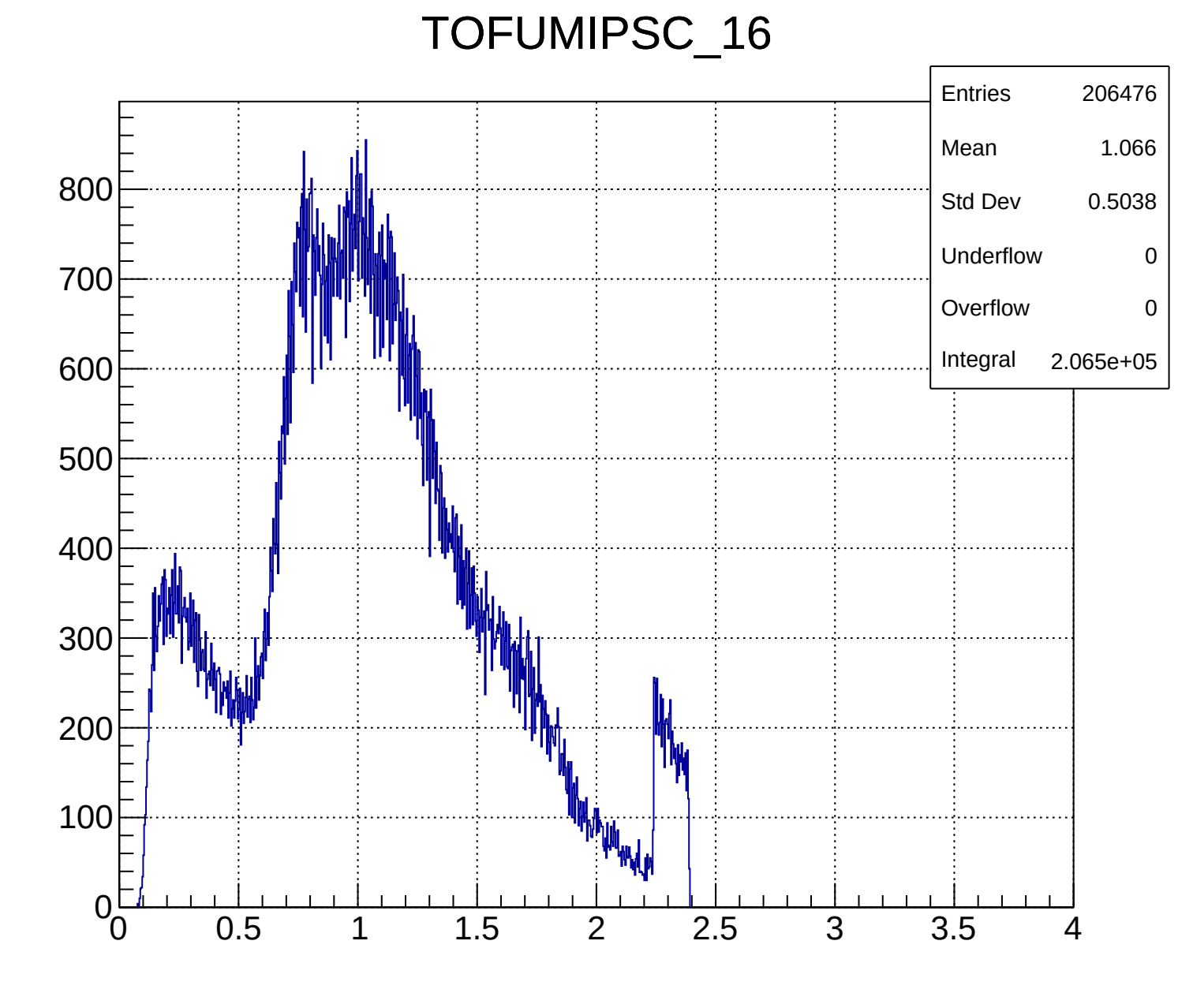
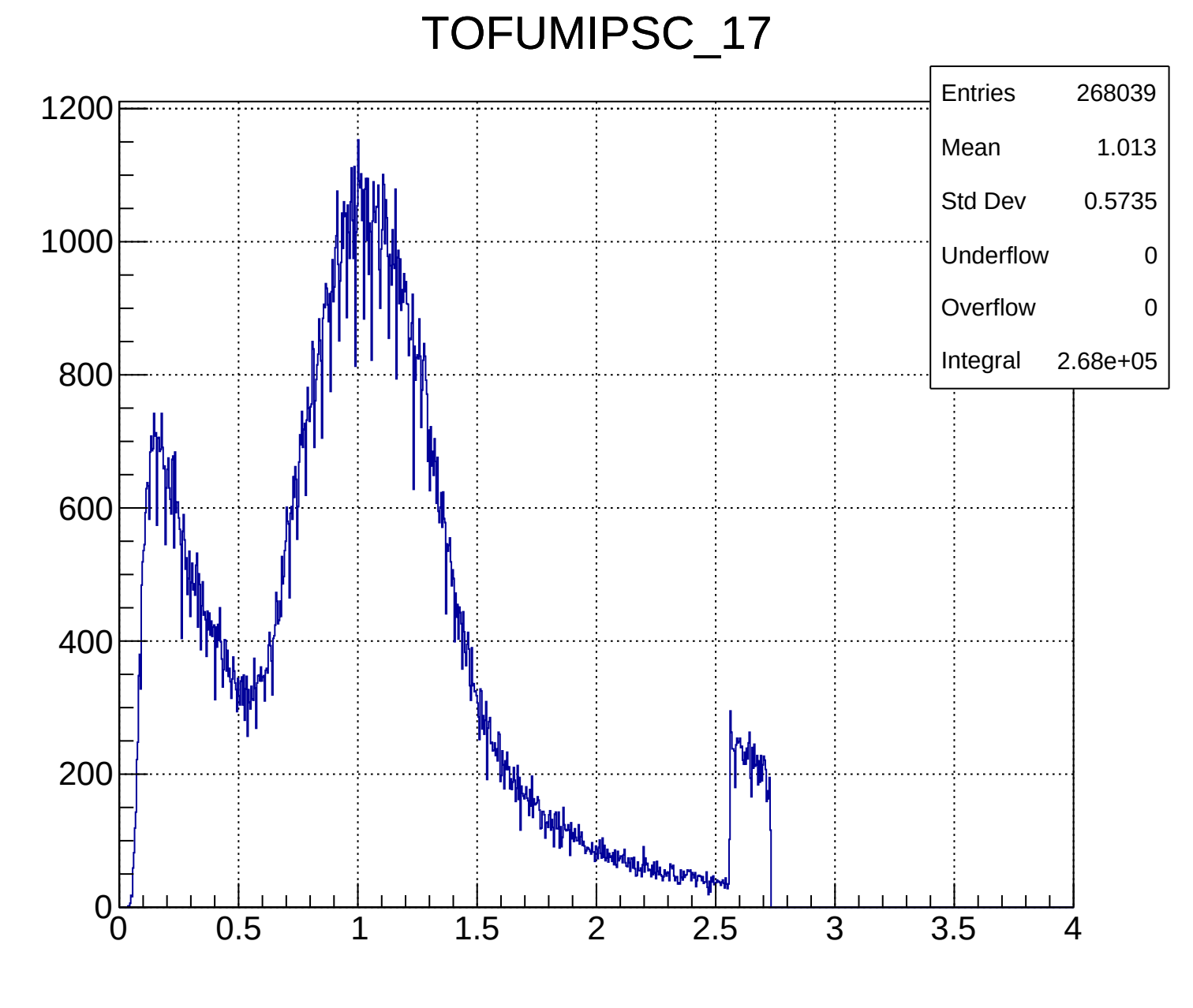
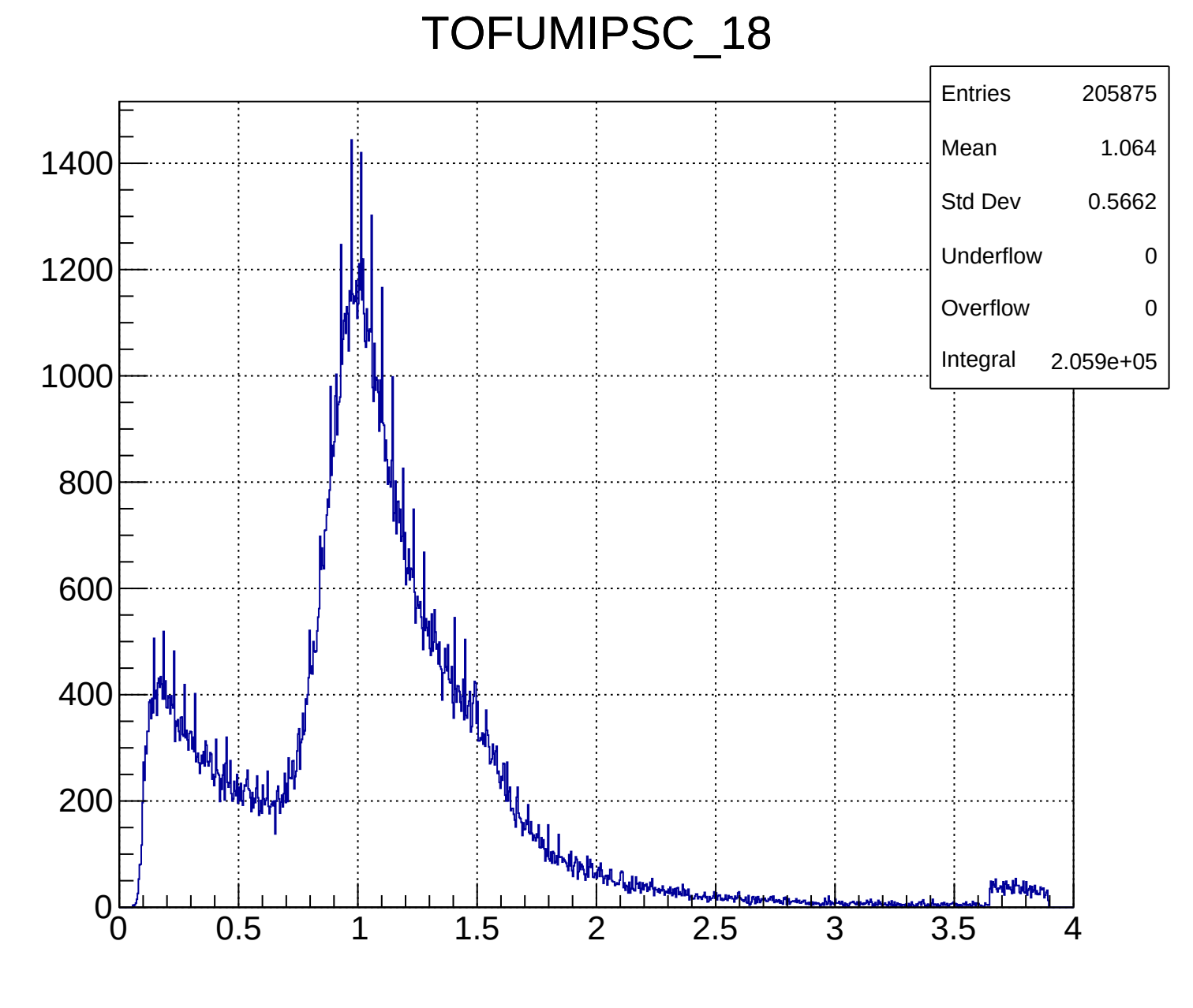
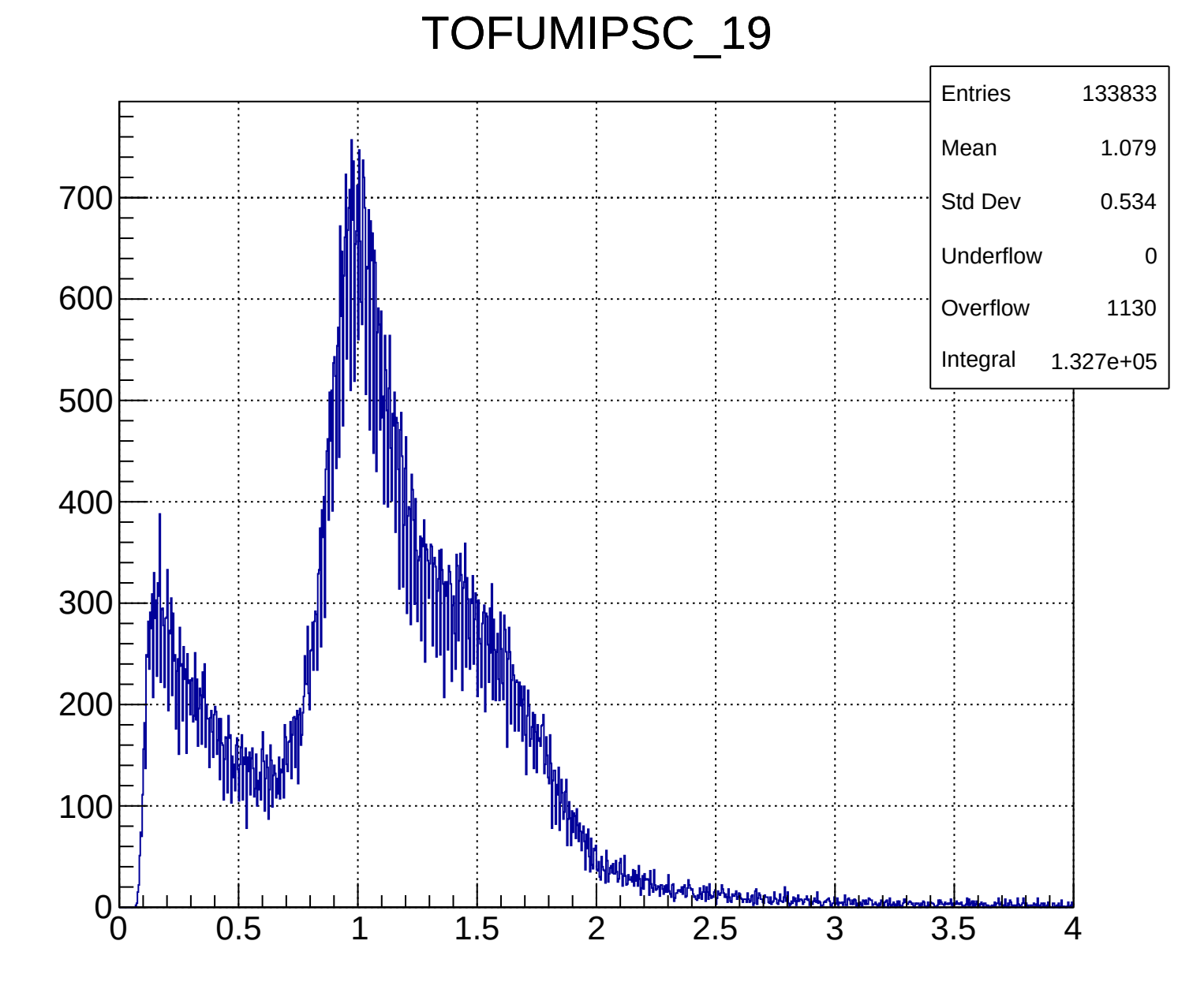
800
600
400
200
0
0
0.5
1
1.5
2
2.5
3
3.5
4

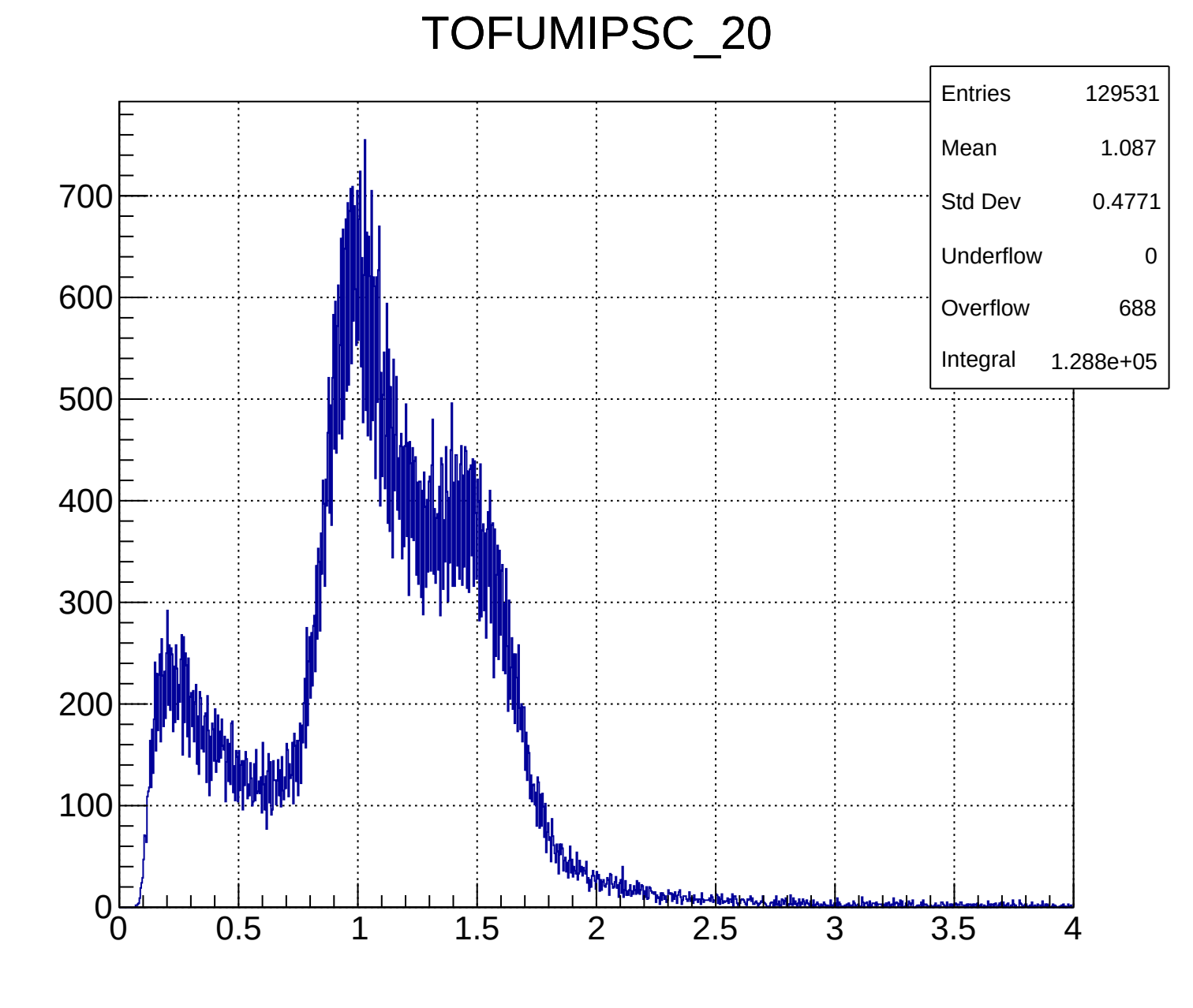

TOFUMIPSC_15
Entries 237426
Mean 0.9785
Std Dev 0.5276
Underflow 0
Overflow 2344
Integral 2.351e+05
1000
800
600
400
200
0
0
0.5
1
1.5
2
2.5
3
3.5
4


TOFUMIPSC_16
Entries 206476
Mean 1.066
Std Dev 0.5038
Underflow 0
Overflow 0
Integral 2.065e+05
800
700
600
500
400
300
200
100
0
0
0.5
1
1.5
2
2.5
3
3.5
4


TOFUMIPSC_17
Entries 268039
Mean 1.013
Std Dev 0.5735
Underflow 0
Overflow 0
Integral 2.68e+05
1200
1000
800
600
400
200
0
0
0.5
1
1.5
2
2.5
3
3.5
4


TOFUMIPSC_18
Entries 205875
Mean 1.064
Std Dev 0.5662
Underflow 0
Overflow 0
Integral 2.059e+05
1400
1200
1000
800
600
400
200
0
0
0.5
1
1.5
2
2.5
3
3.5
4


TOFUMIPSC_19
Entries 133833
Mean 1.079
Std Dev 0.534
Underflow 0
Overflow 1130
Integral 1.327e+05
0
100
200
300
400
500
600
700
0
0.5
1
1.5
2
2.5
3
3.5
4


TOFUMIPSC_20
Entries 129531
Mean 1.087
Std Dev 0.4771
Underflow 0
Overflow 688
Integral 1.288e+05
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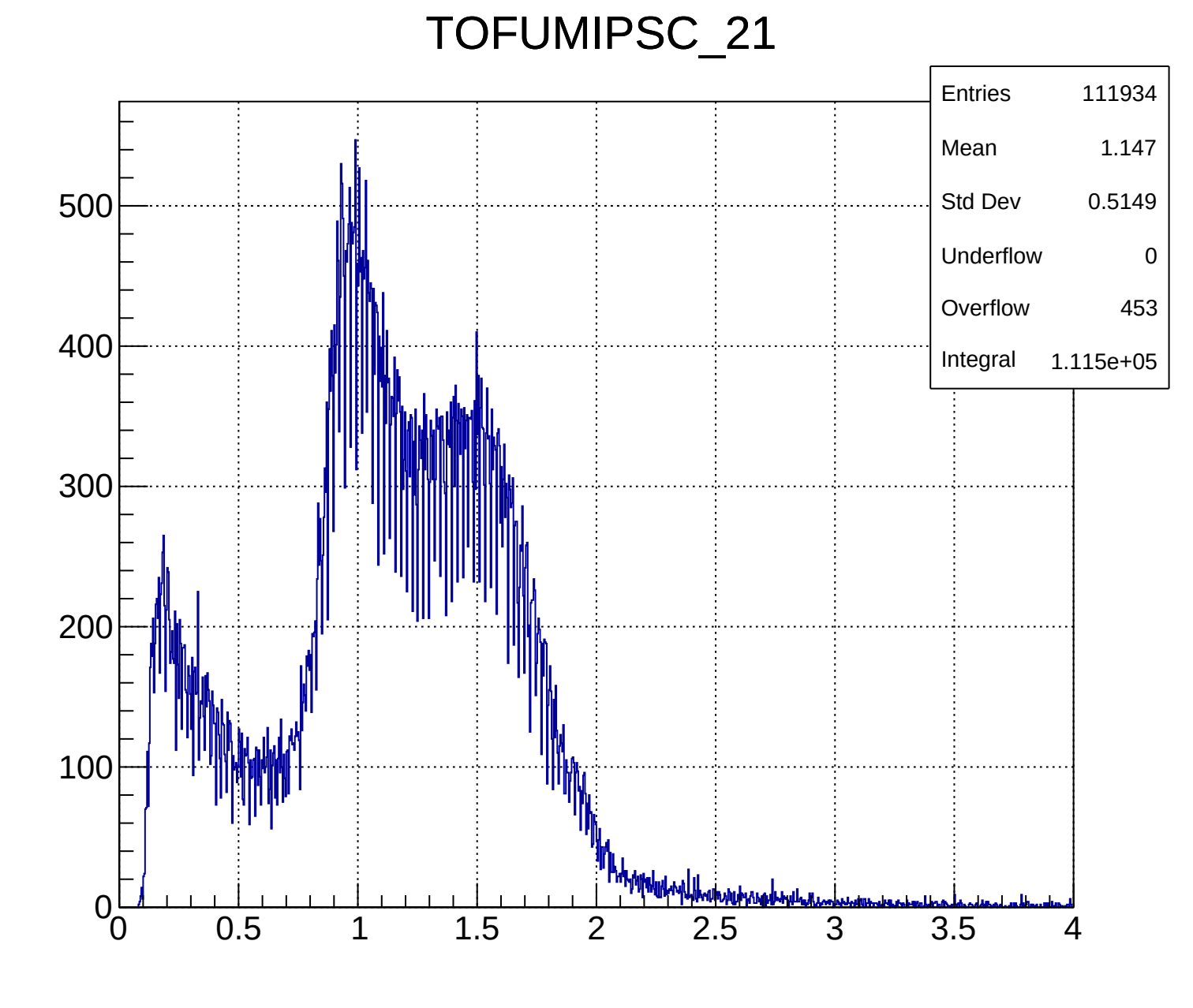
100
200
300
400
500
600
700
0
0.5
1
1.5
2
2.5
3
3.5
4


TOFUMIPSC_21
Entries 111934
Mean 1.147
Std Dev 0.5149
Underflow 0
Overflow 453
Integral 1.115e+05
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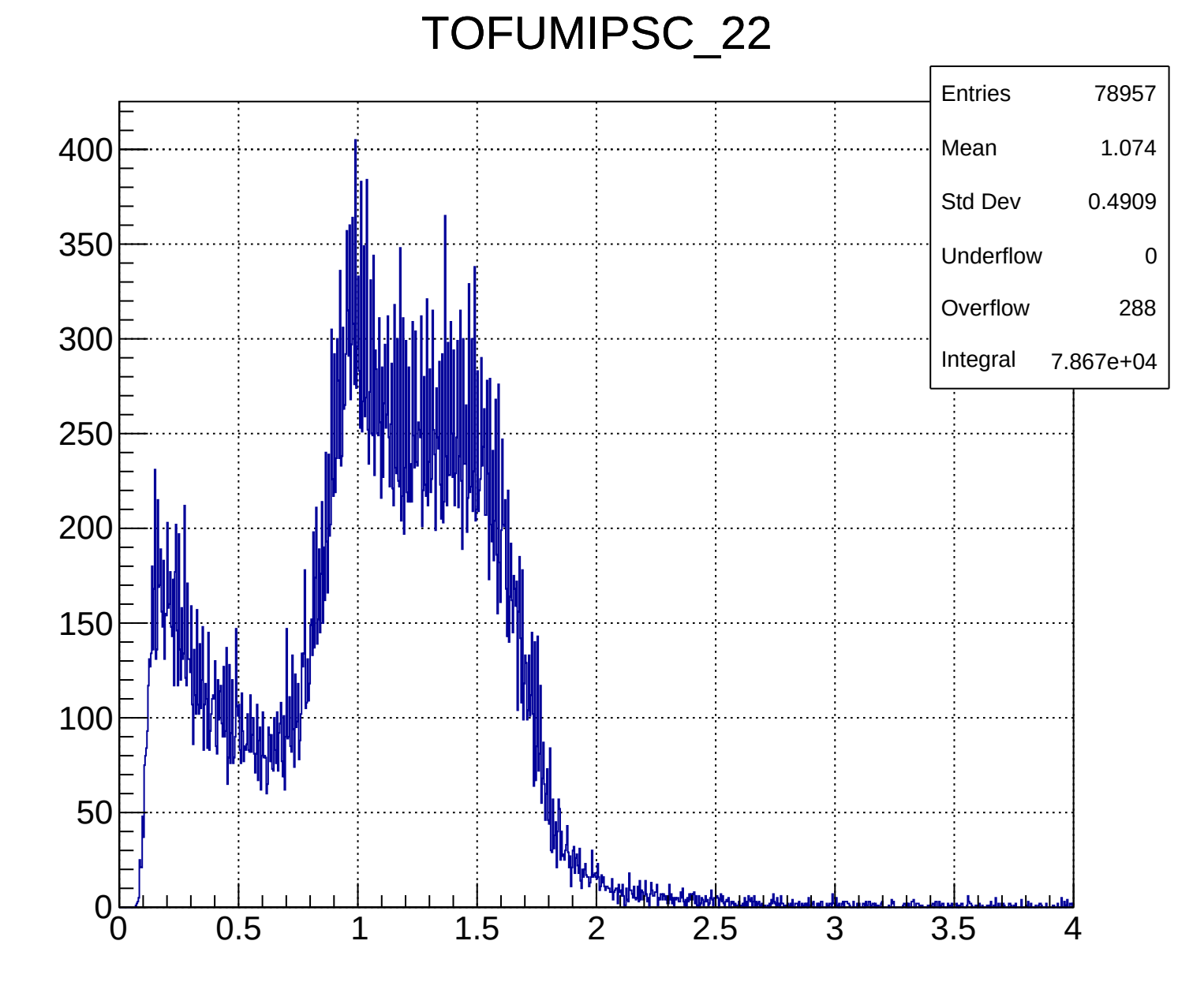
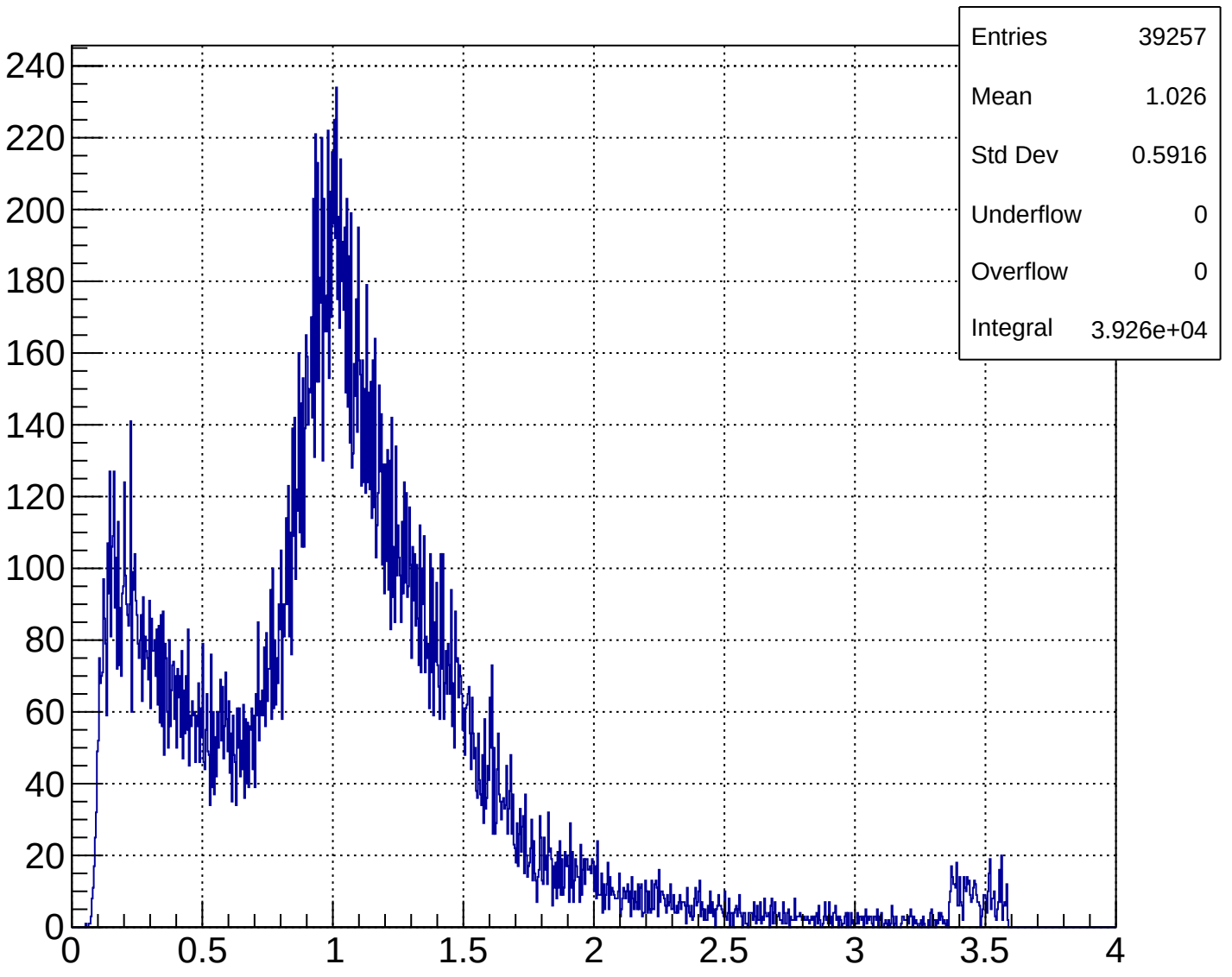
100
200
300
400
500
0
0.5
1
1.5
2
2.5
3
3.5
4


TOFUMIPSC_22
Entries 78957
Mean 1.074
Std Dev 0.4909
Underflow 0
Overflow 288
Integral 7.867e+04
400
350
300
250
200
150
100
50
0
0
0.5
1
1.5
2
2.5
3
3.5
4


TOFUMIPSC_23
Entries 39257
Mean 1.026
Std Dev 0.5916
Underflow 0
Overflow 0
Integral 3.926e+04
240
220
200
180
160
140
120
100
80
60
40
20
0
0
0.5
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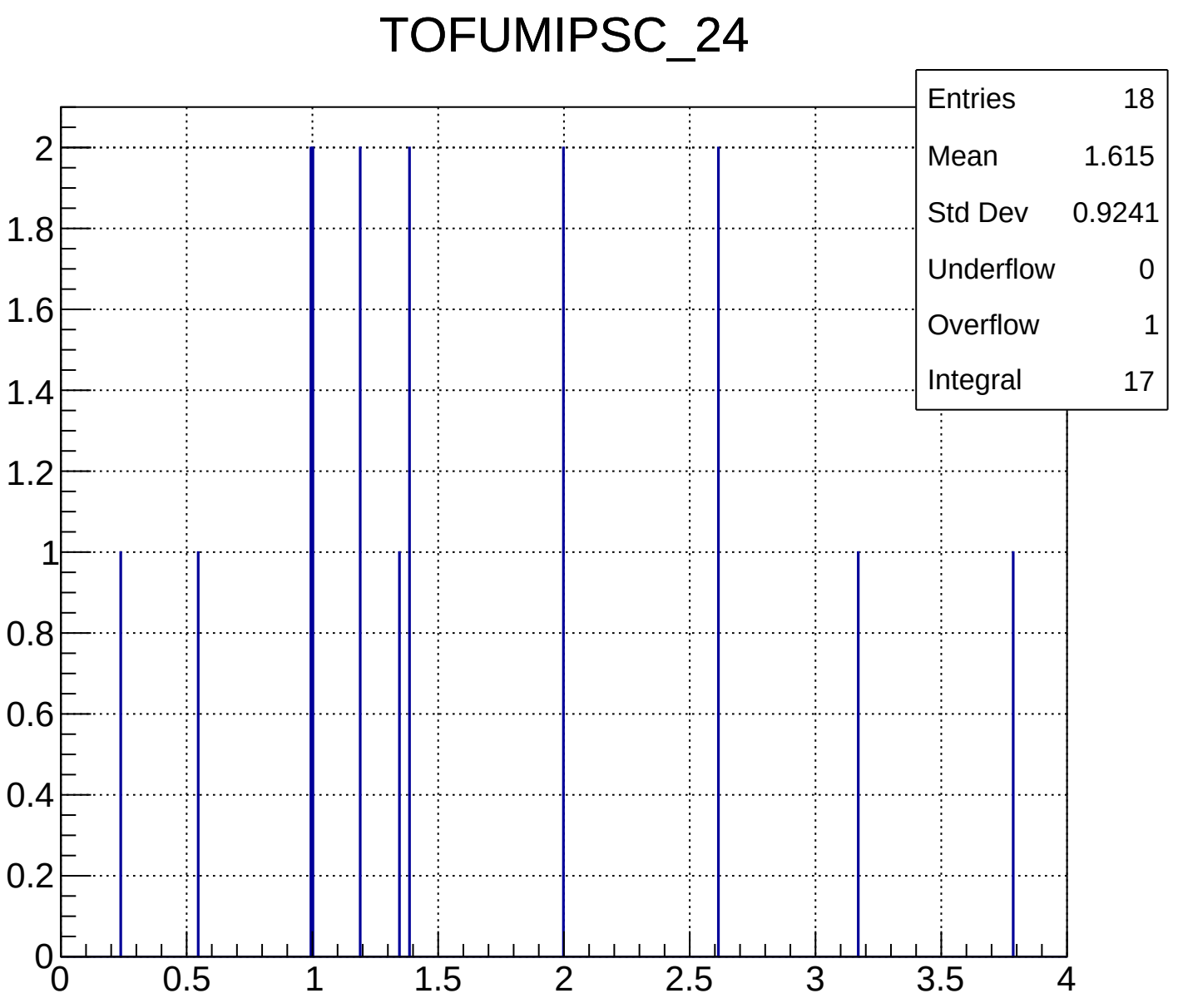
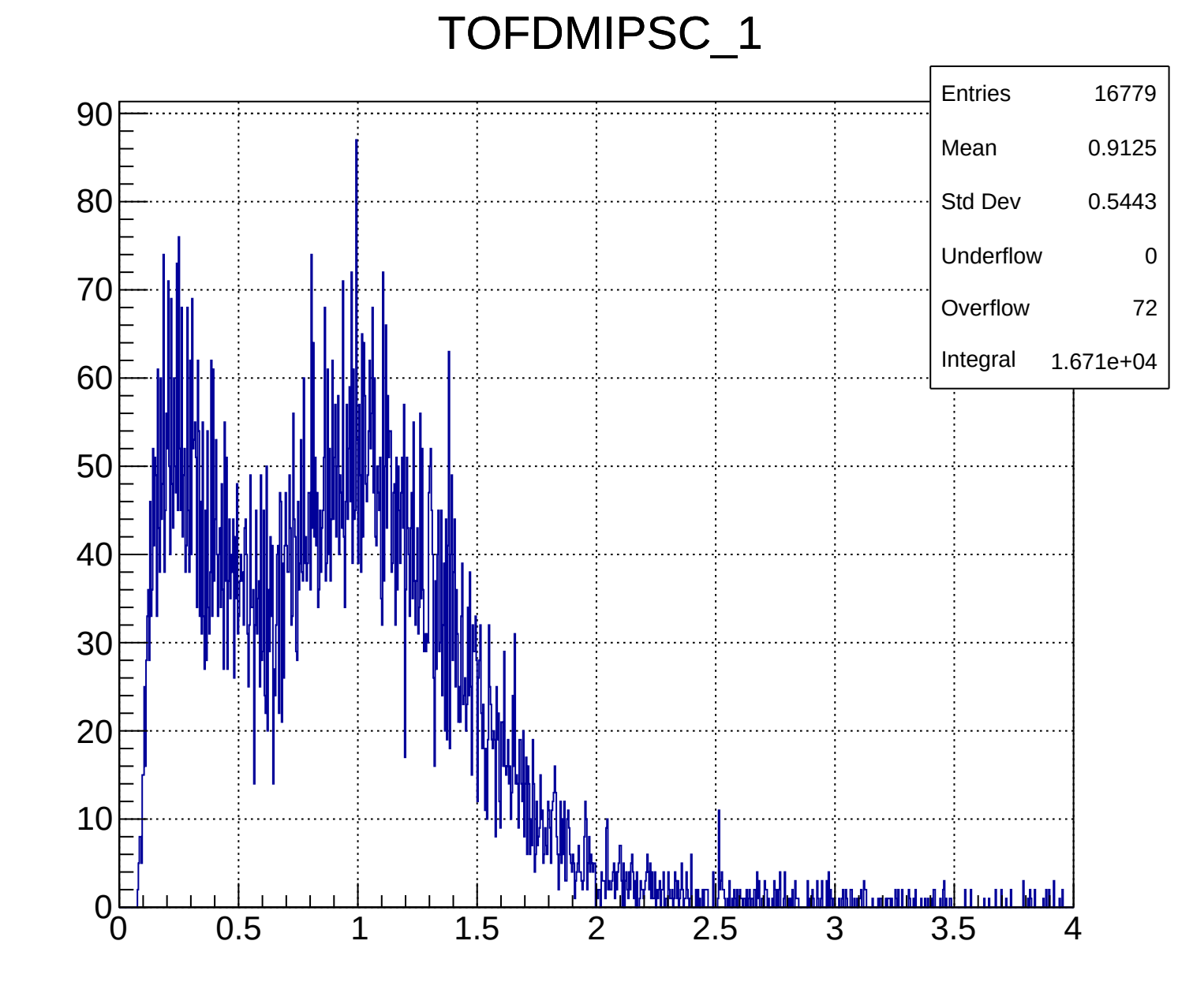
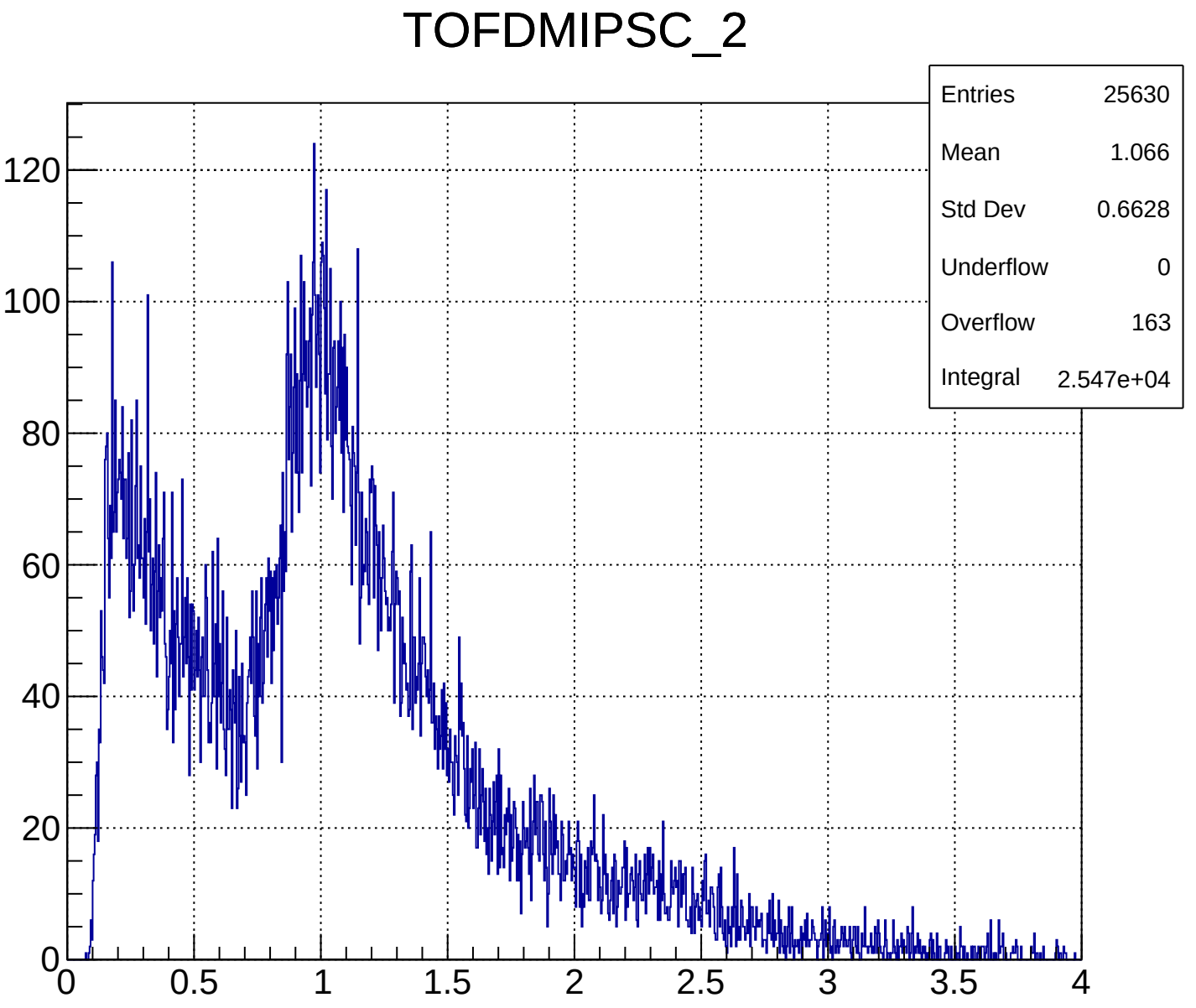
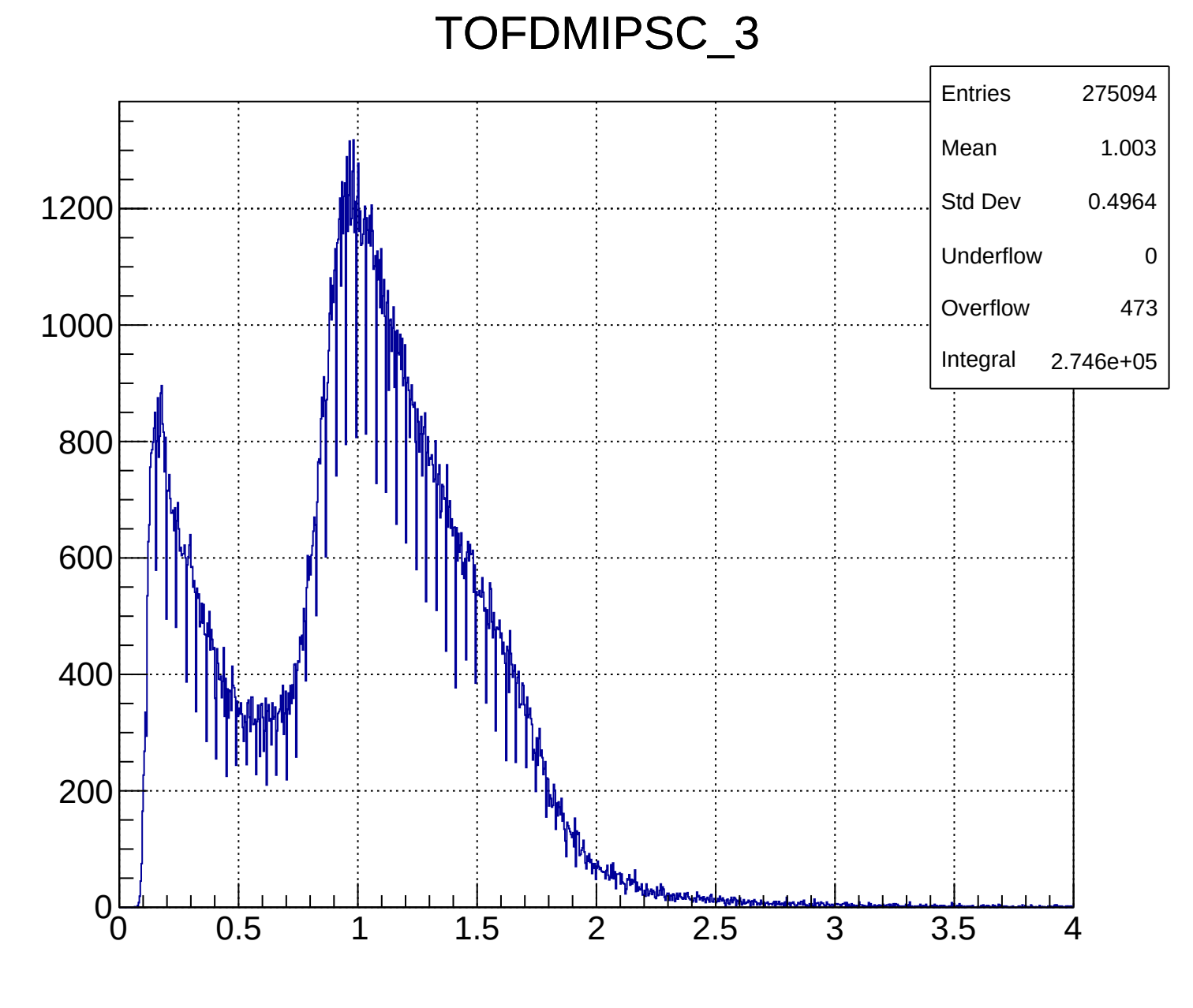
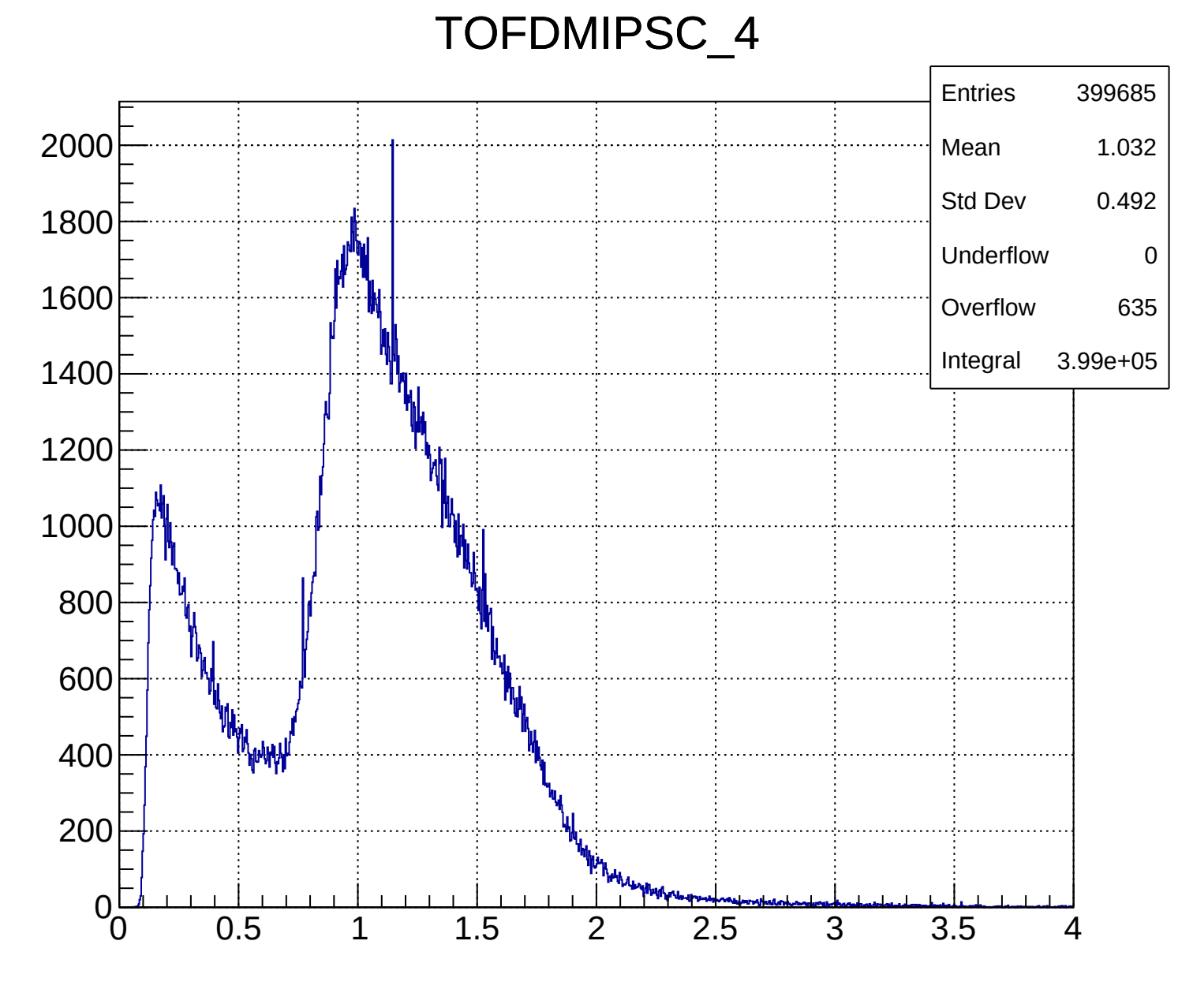
1.5
2
2.5
3
3.5
4

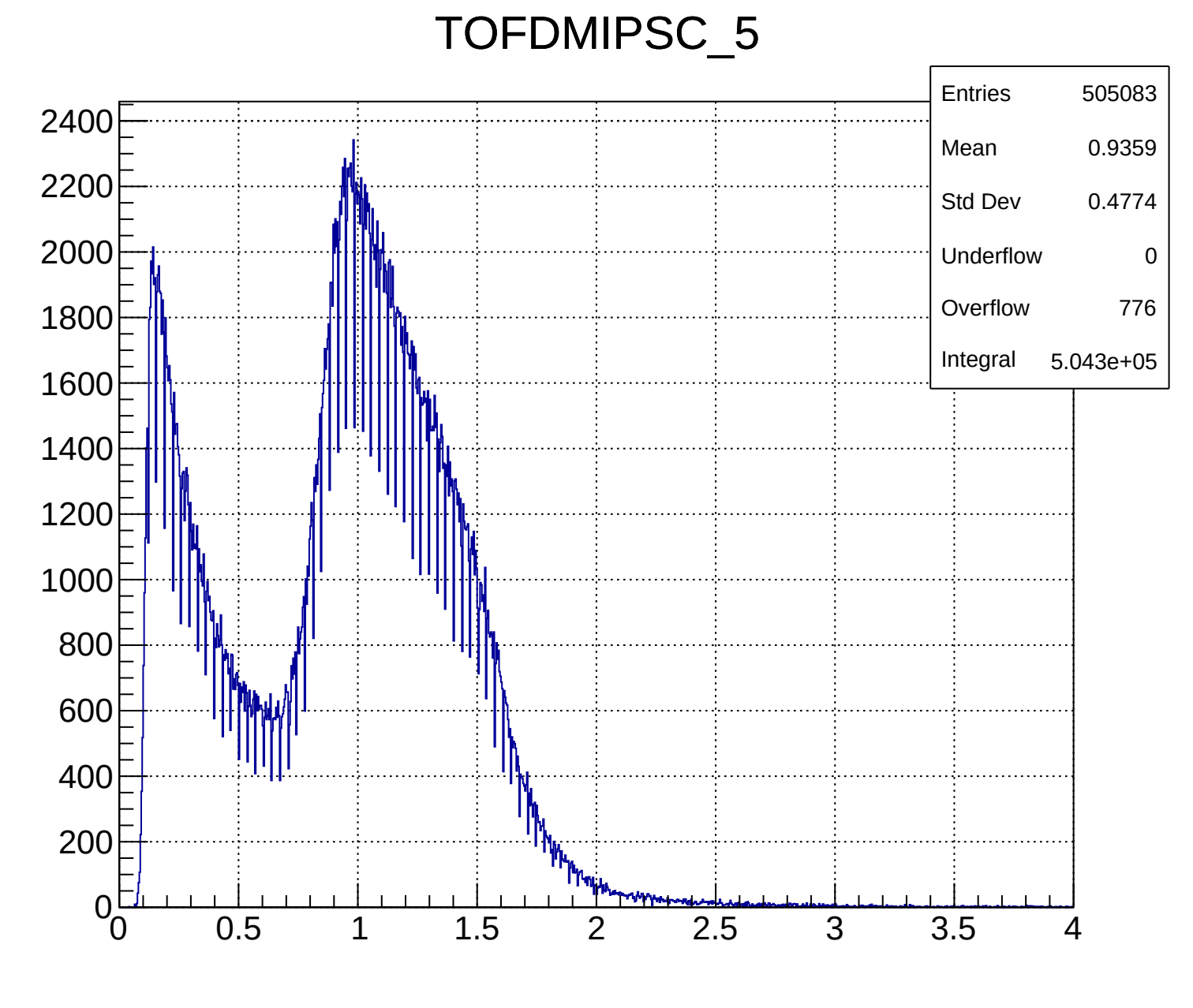

TOFUMIPSC_24
Entries 18
Mean 1.615
Std Dev 0.9241
Underflow 0
Overflow 1
Integral 17
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2
0
0.5
1
1.5
2
2.5
3
3.5
4

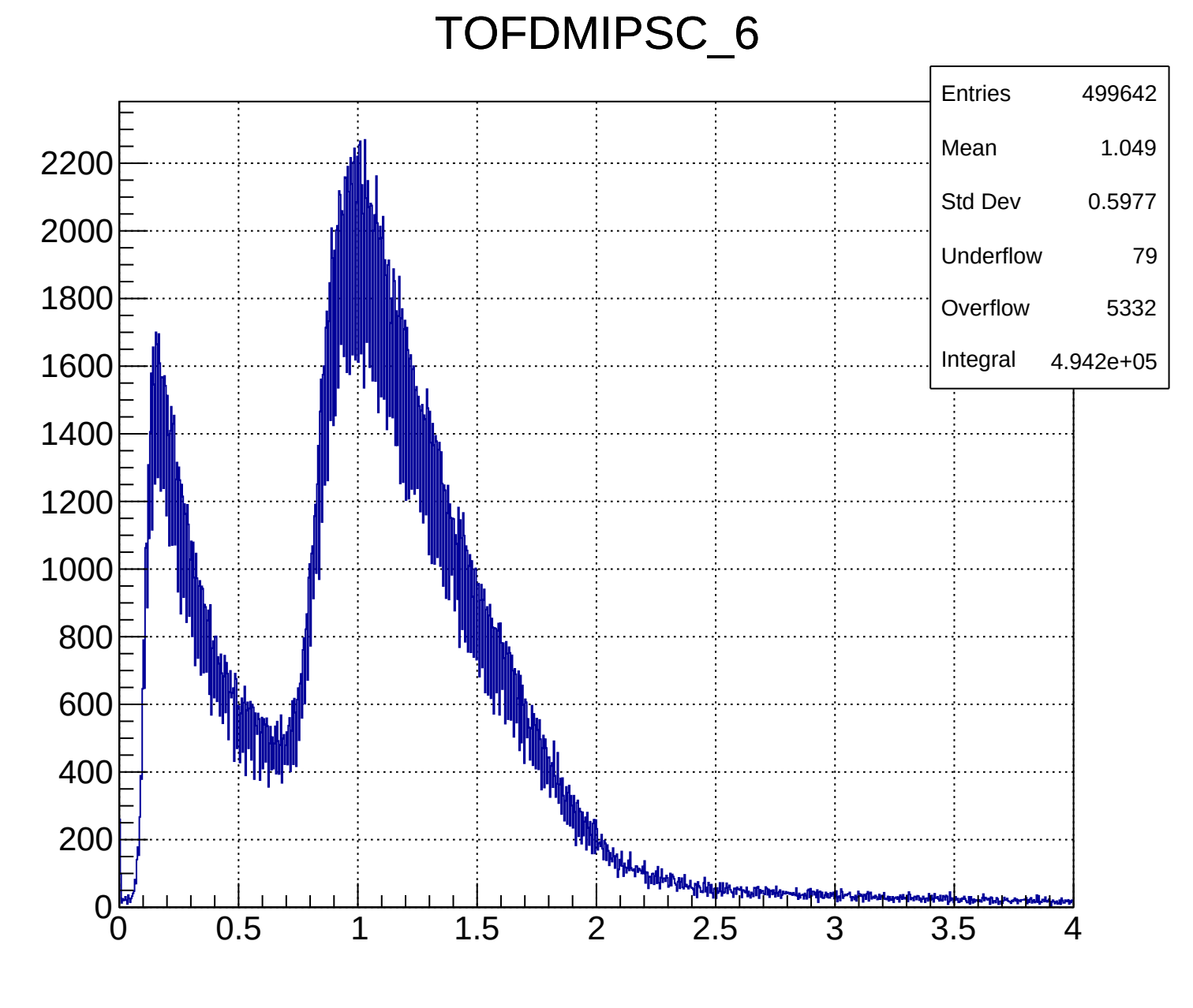

TOFDMIPSC_1
Entries 16779
Mean 0.9125
Std Dev 0.5443
Underflow 0
Overflow 72
Integral 1.671e+04
90
80
70
60
50
40
30
20
10
0
0
0.5
1
1.5
2
2.5
3
3.5
4

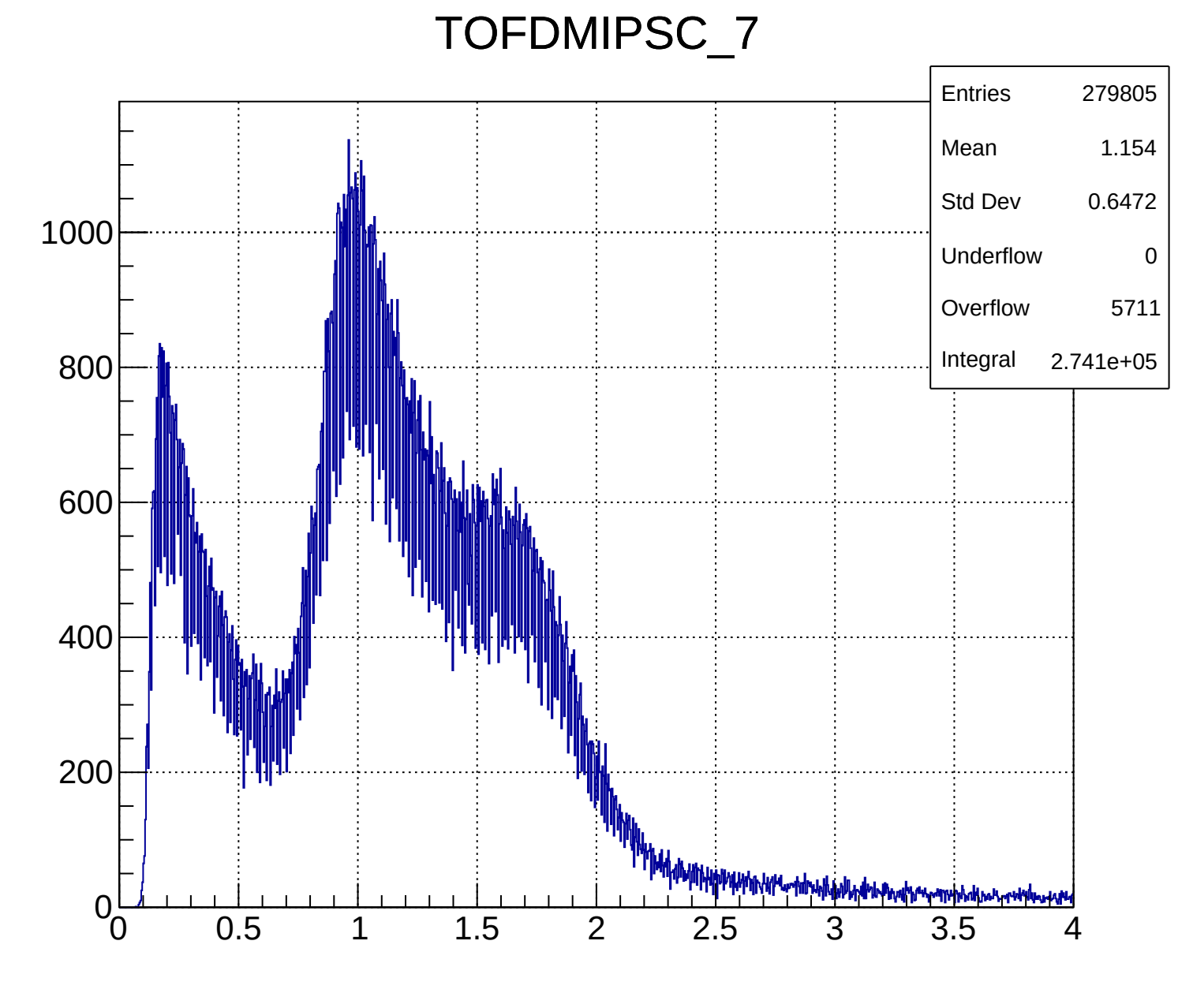

TOFDMIPSC_2
Entries 25630
Mean 1.066
Std Dev 0.6628
Underflow 0
Overflow 163
Integral 2.547e+04
120
100
80
60
40
20
0
0
0.5
1
1.5
2
2.5
3
3.5
4

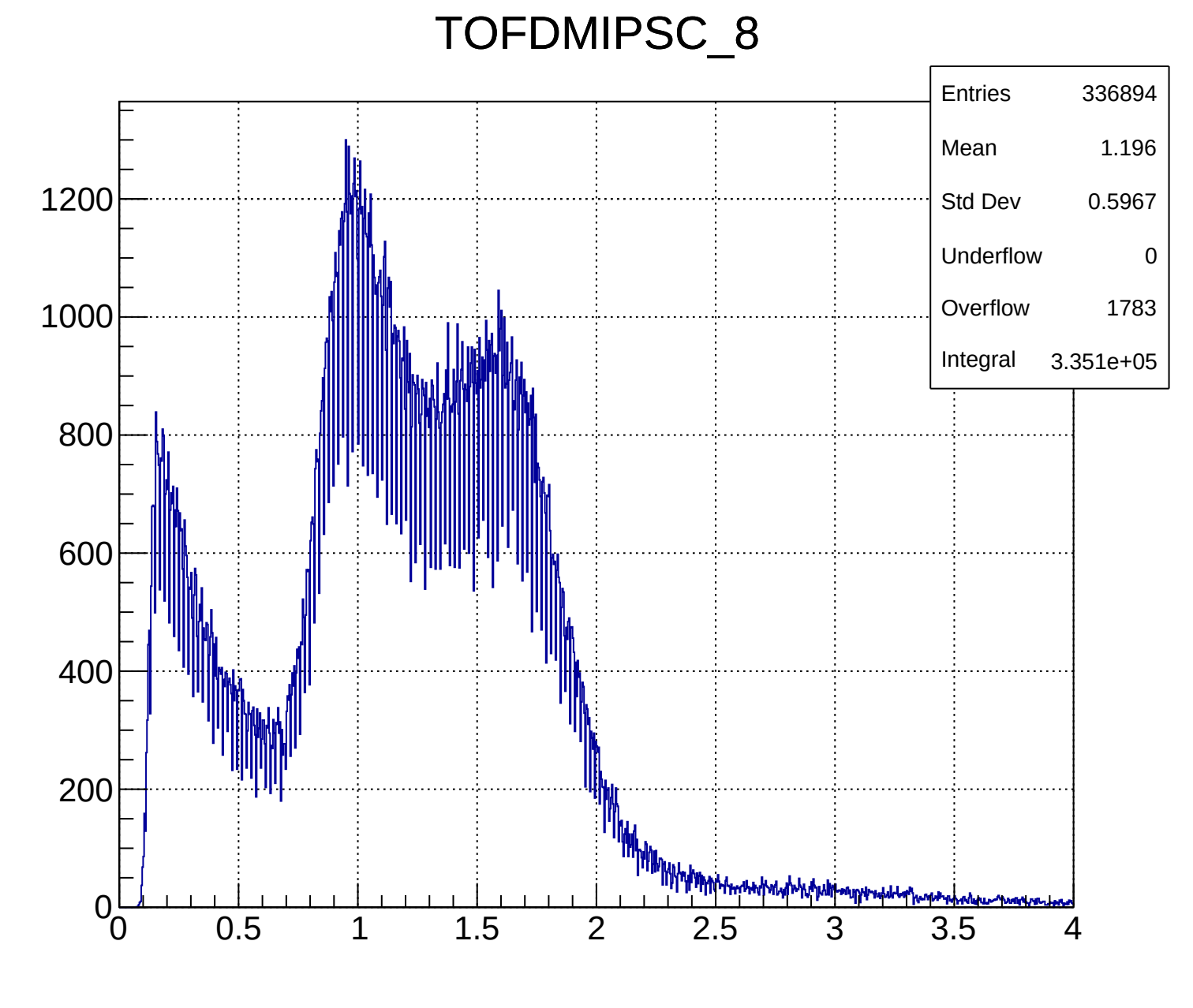

TOFDMIPSC_3
Entries 275094
Mean 1.003
Std Dev 0.4964
Underflow 0
Overflow 473
Integral 2.746e+05
0
200
400
600
800
1000
1200
0
0.5
1
1.5
2
2.5
3
3.5
4

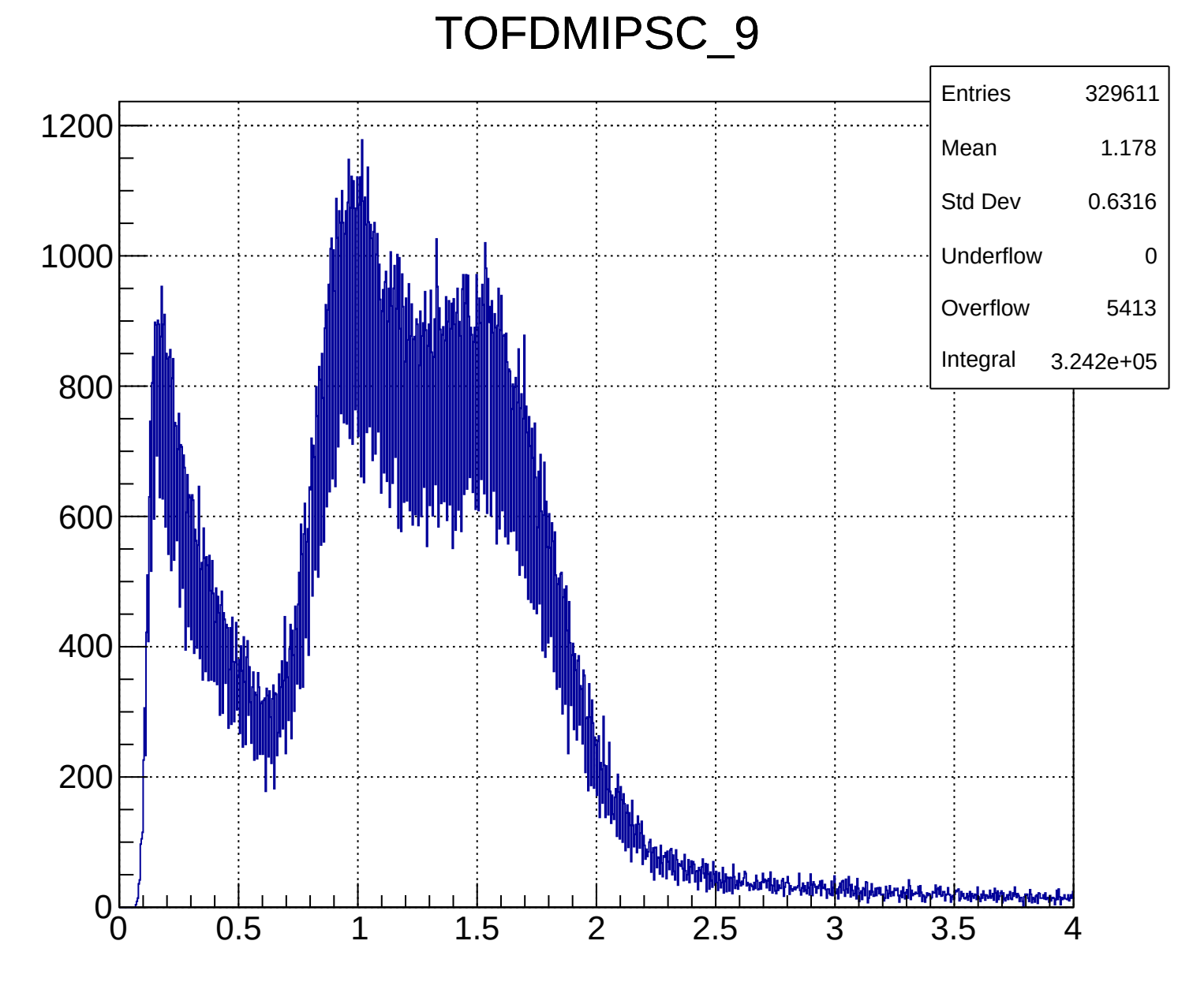

TOFDMIPSC_4
Entries 399685
Mean 1.032
Std Dev 0.492
Underflow 0
Overflow 635
Integral 3.99e+05
2000
1800
1600
1400
1200
1000
800
600
400
200
0
0
0.5
1
1.5
2
2.5
3
3.5
4

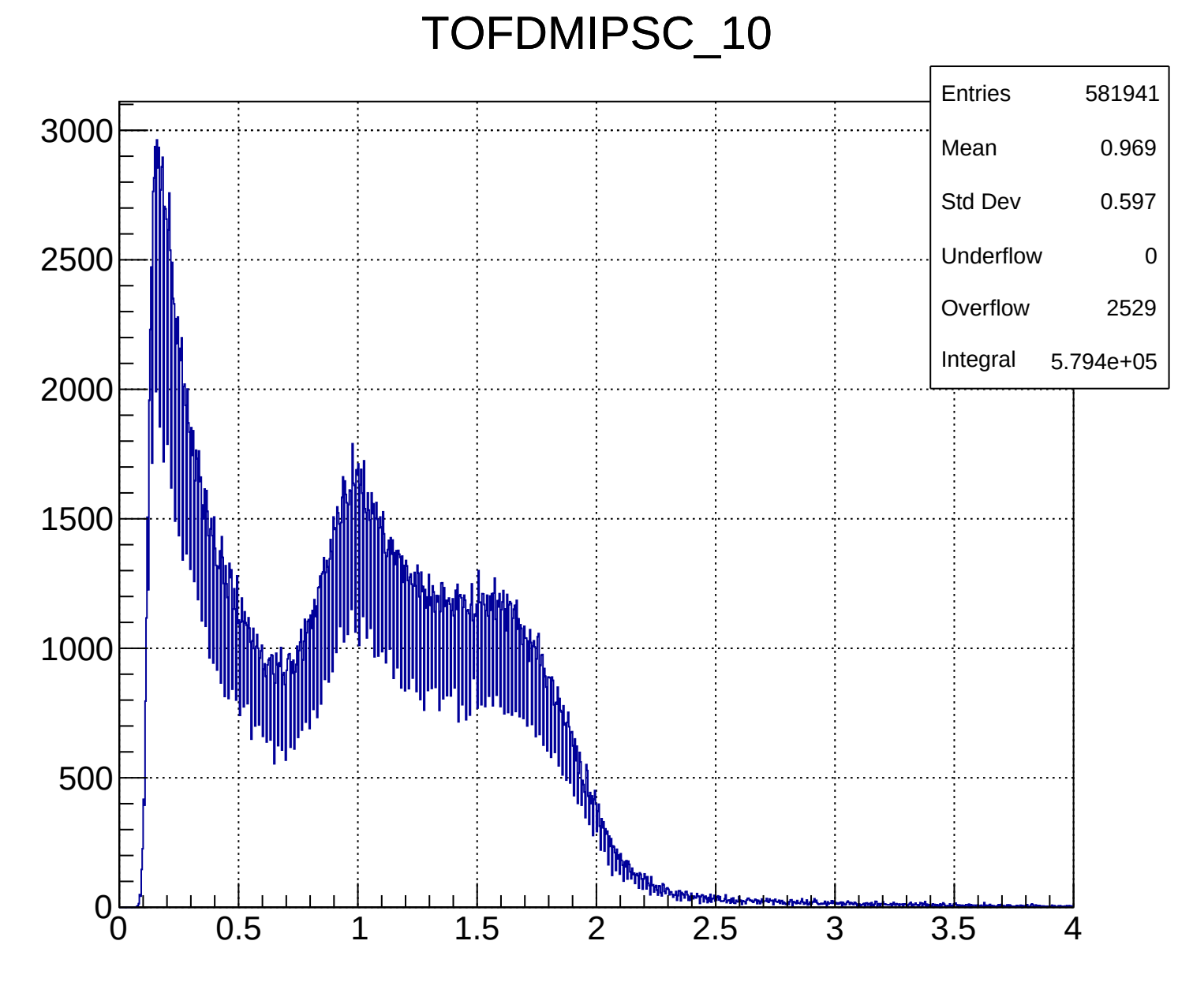

TOFDMIPSC_5
Entries 505083
Mean 0.9359
Std Dev 0.4774
Underflow 0
Overflow 776
Integral 5.043e+05
2400
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
0
0.5
1
1.5
2
2.5
3
3.5
4

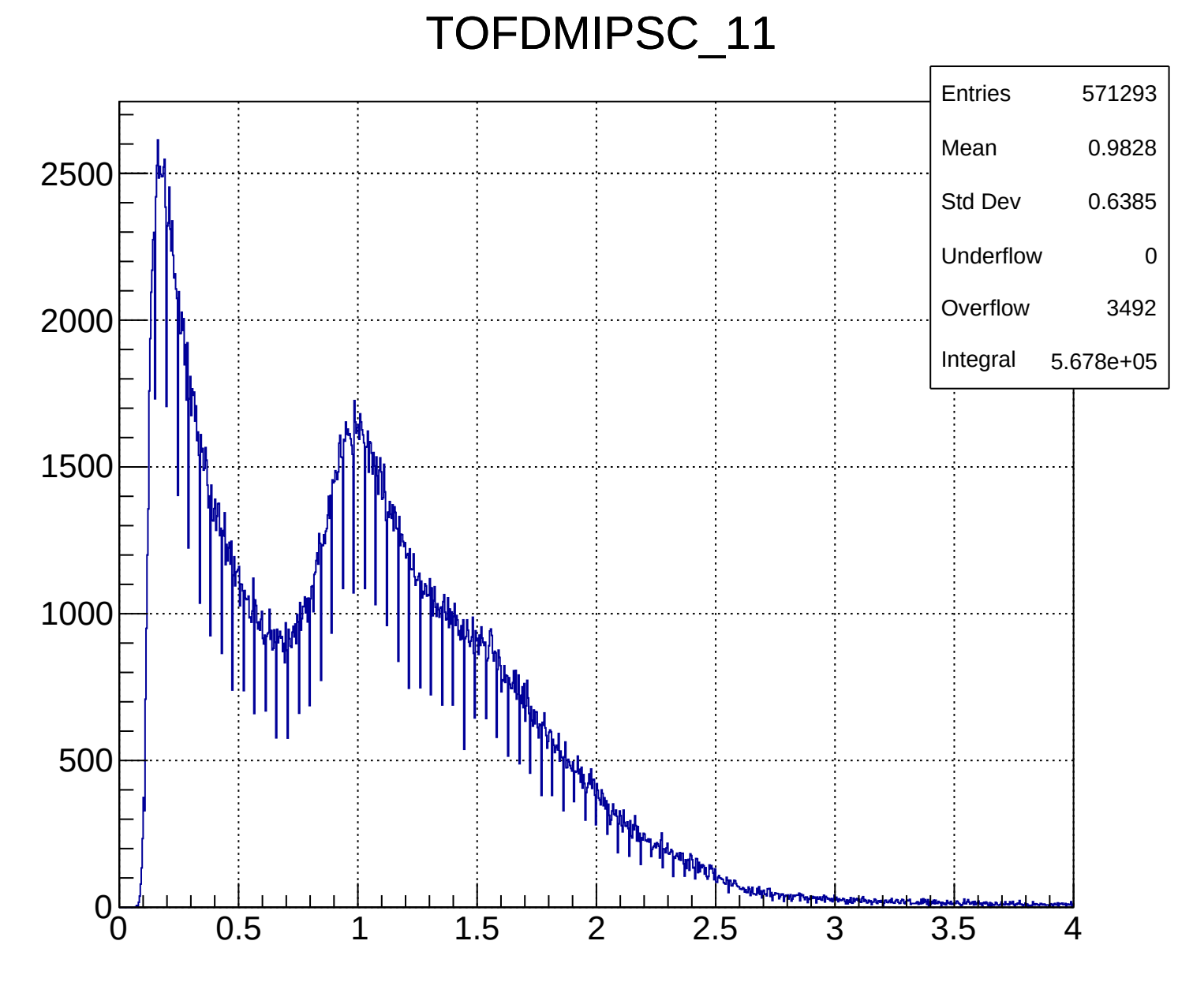

TOFDMIPSC_6
Entries 499642
Mean 1.049
Std Dev 0.5977
Underflow 79
Overflow 5332
Integral 4.942e+05
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
0
0.5
1
1.5
2
2.5
3
3.5
4

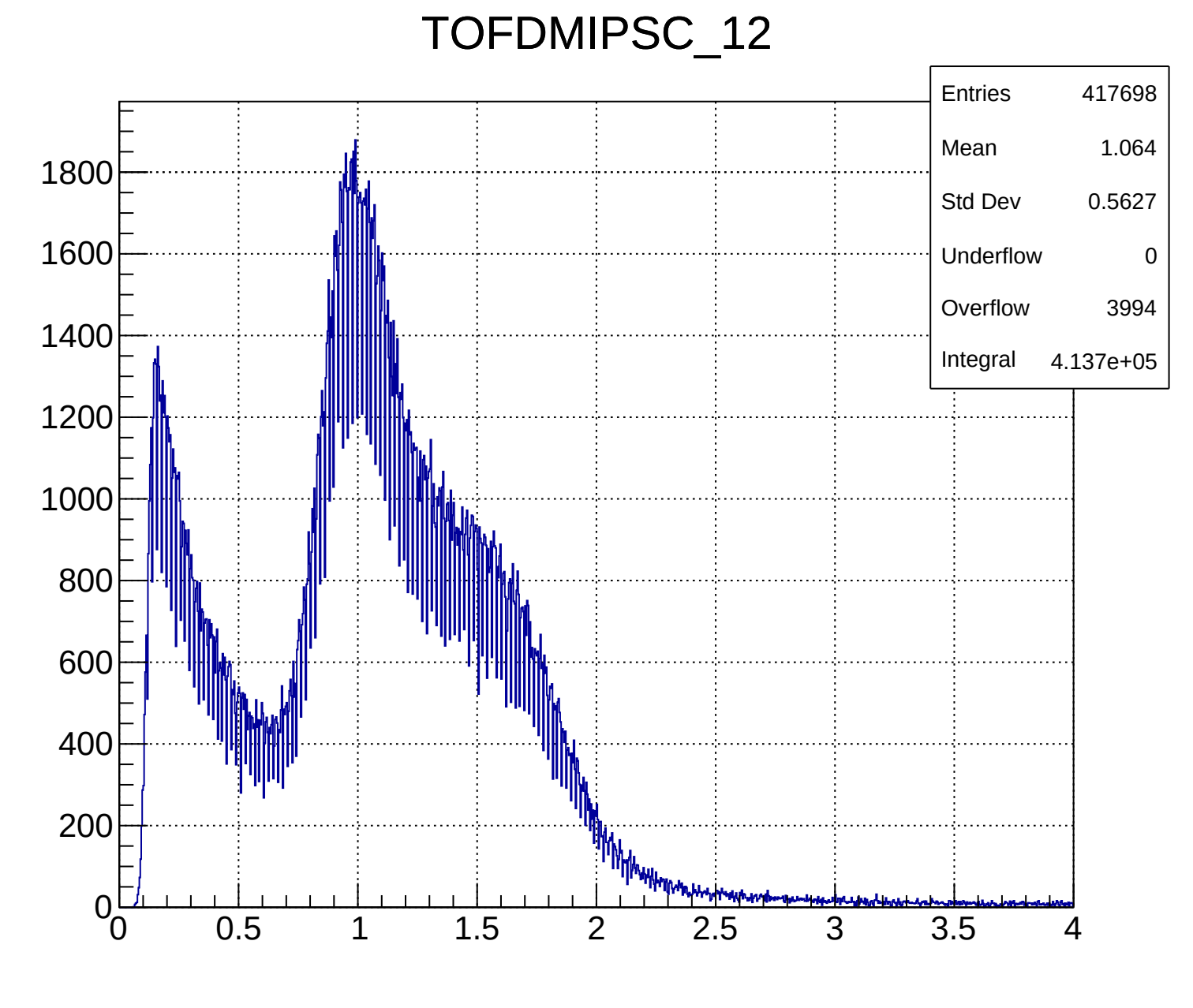

TOFDMIPSC_7
Entries 279805
Mean 1.154
Std Dev 0.6472
Underflow 0
Overflow 5711
Integral 2.741e+05
1000
800
600
400
200
0
0
0.5
1
1.5
2
2.5
3
3.5
4

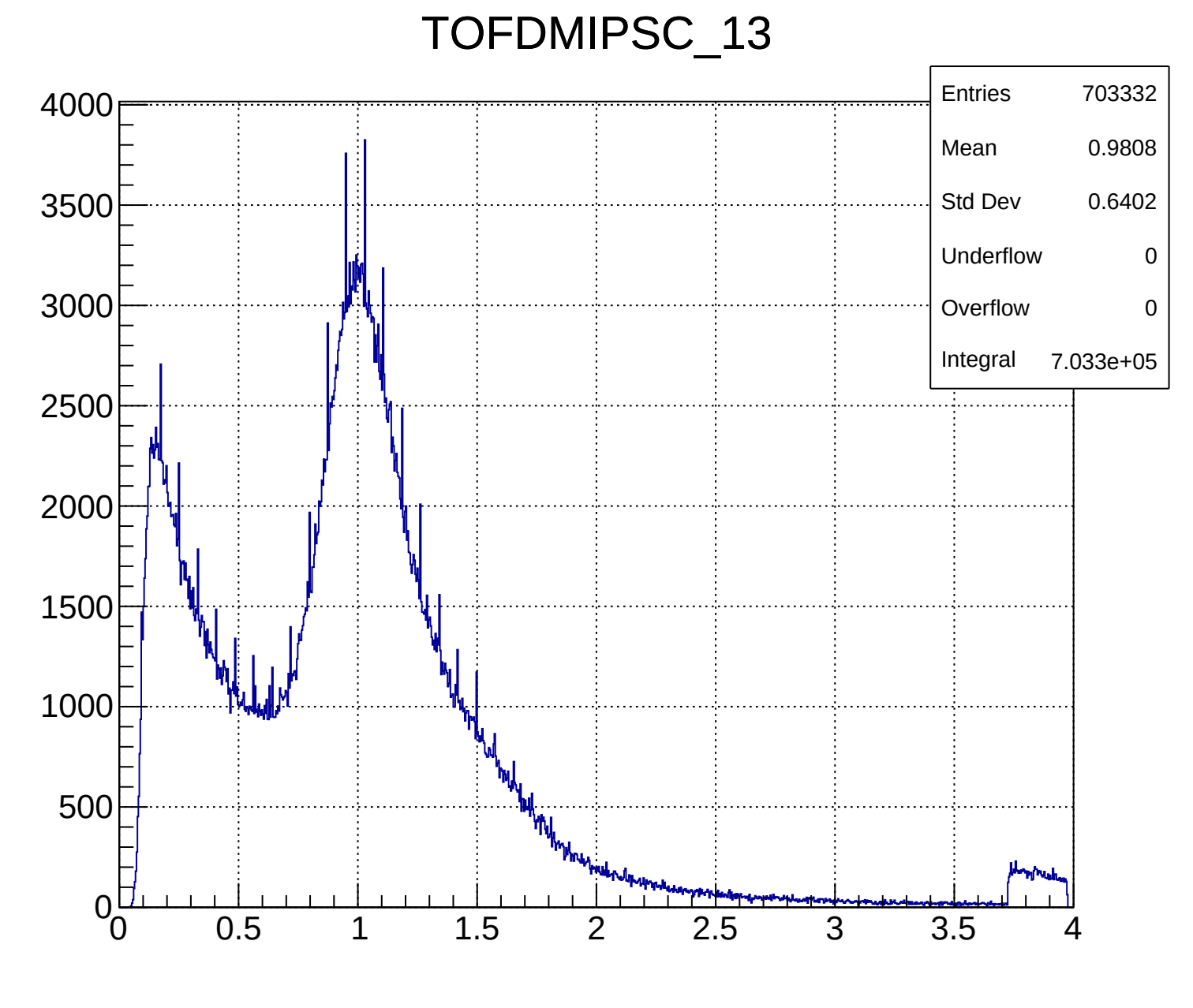

TOFDMIPSC_8
Entries 336894
Mean 1.196
Std Dev 0.5967
Underflow 0
Overflow 1783
Integral 3.351e+05
0
200
400
600
800
1000
1200
0
0.5
1
1.5
2
2.5
3
3.5
4

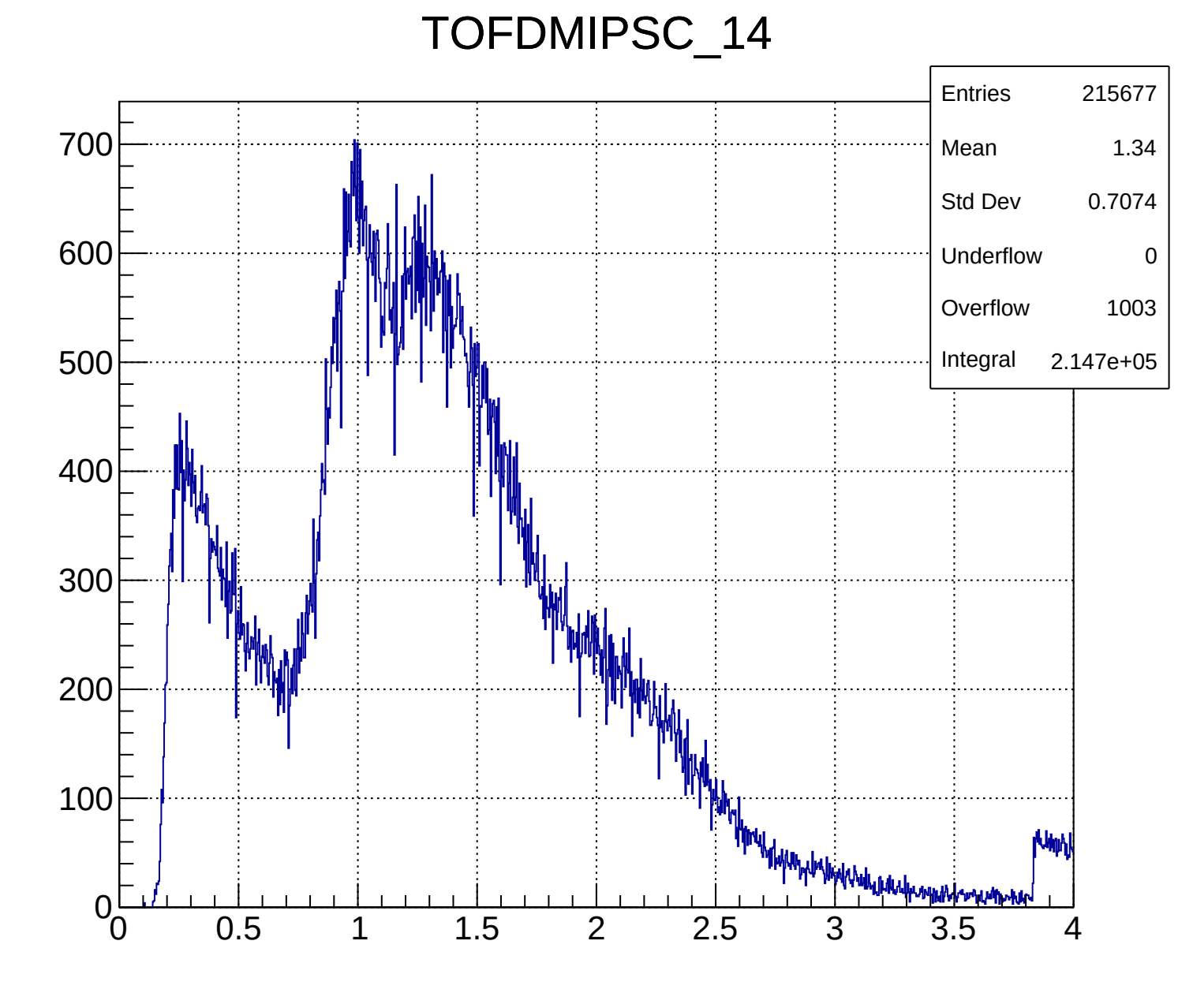

TOFDMIPSC_9
Entries 329611
Mean 1.178
Std Dev 0.6316
Underflow 0
Overflow 5413
Integral 3.242e+05
1200
1000
800
600
400
200
0
0
0.5
1
1.5
2
2.5
3
3.5
4

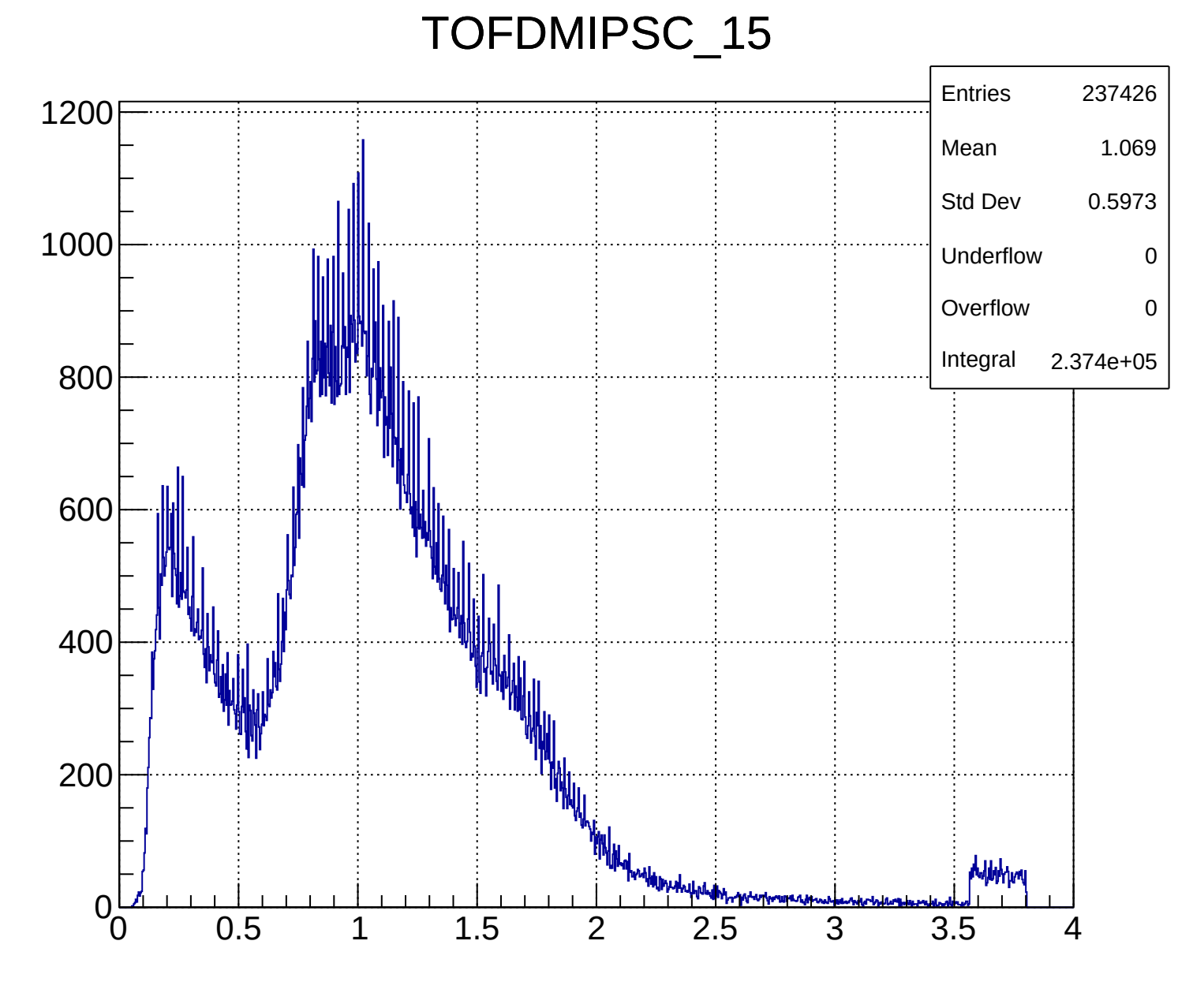

TOFDMIPSC_10
Entries 581941
Mean 0.969
Std Dev 0.597
Underflow 0
Overflow 2529
Integral 5.794e+05
3000
2500
2000
1500
1000
500
0
0
0.5
1
1.5
2
2.5
3
3.5
4

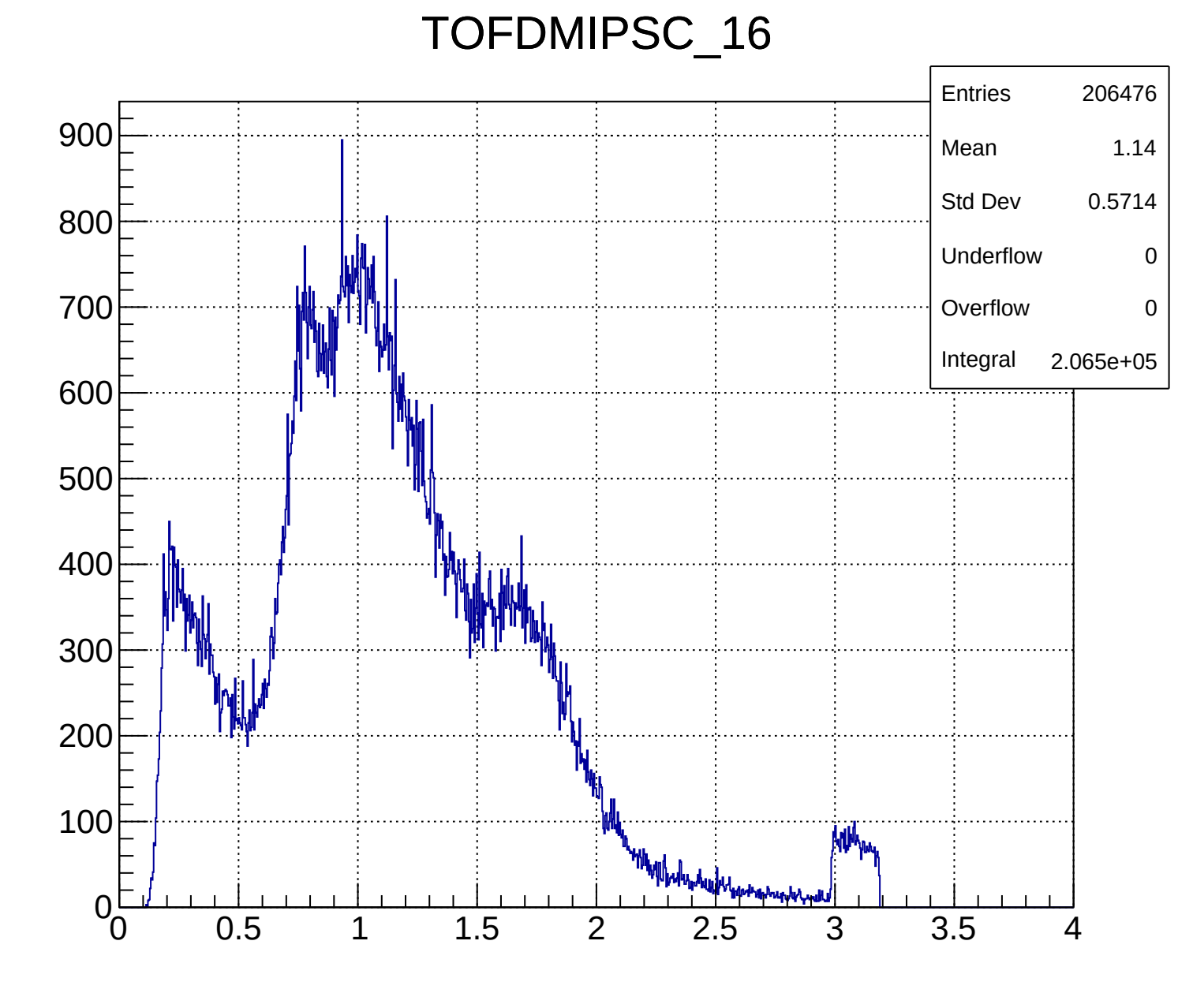

TOFDMIPSC_11
Entries 571293
Mean 0.9828
Std Dev 0.6385
Underflow 0
Overflow 3492
Integral 5.678e+05
2500
2000
1500
1000
500
0
0
0.5
1
1.5
2
2.5
3
3.5
4

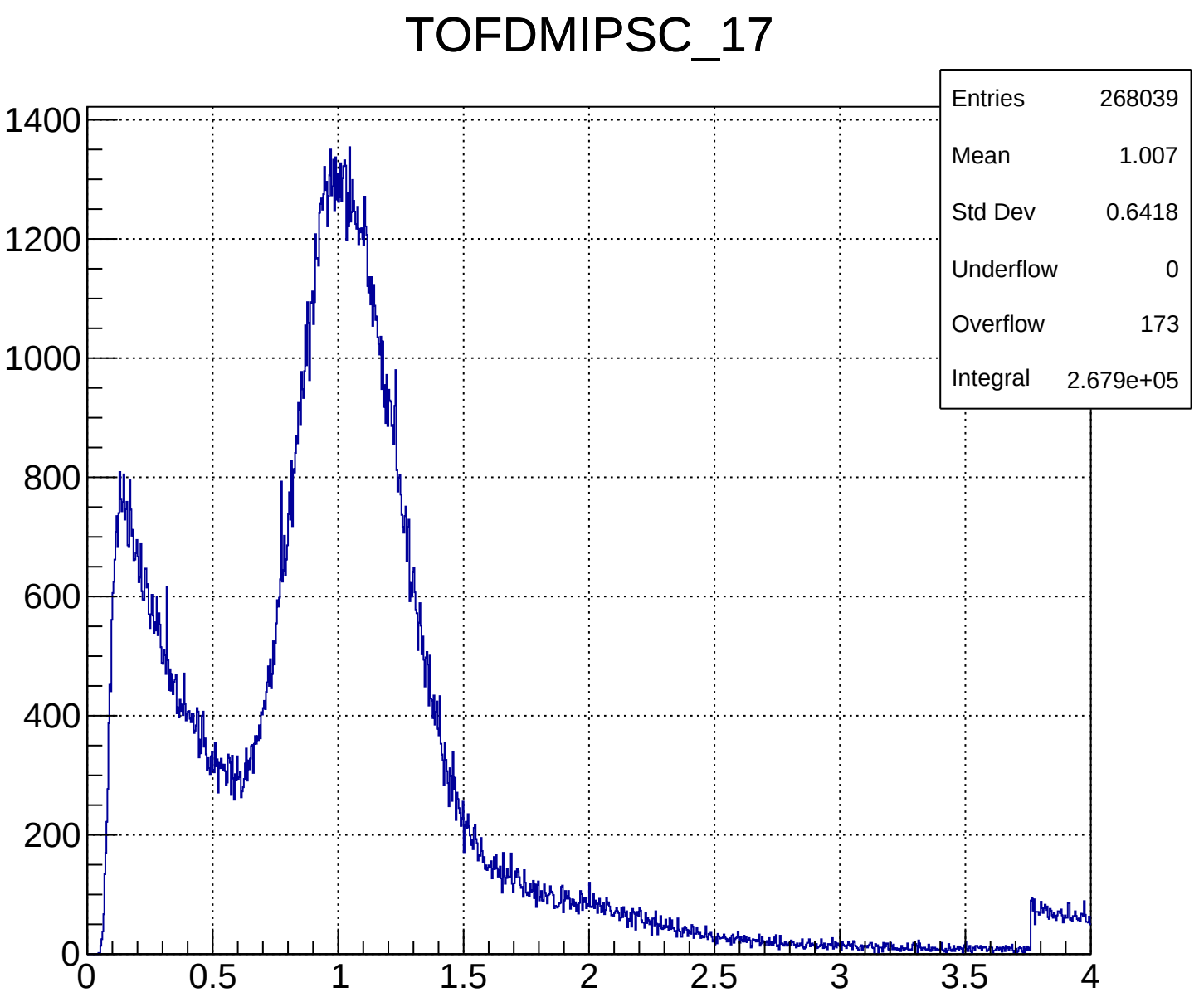

TOFDMIPSC_12
Entries 417698
Mean 1.064
Std Dev 0.5627
Underflow 0
Overflow 3994
Integral 4.137e+05
1800
1600
1400
1200
1000
800
600
400
200
0
0
0.5
1
1.5
2
2.5
3
3.5
4

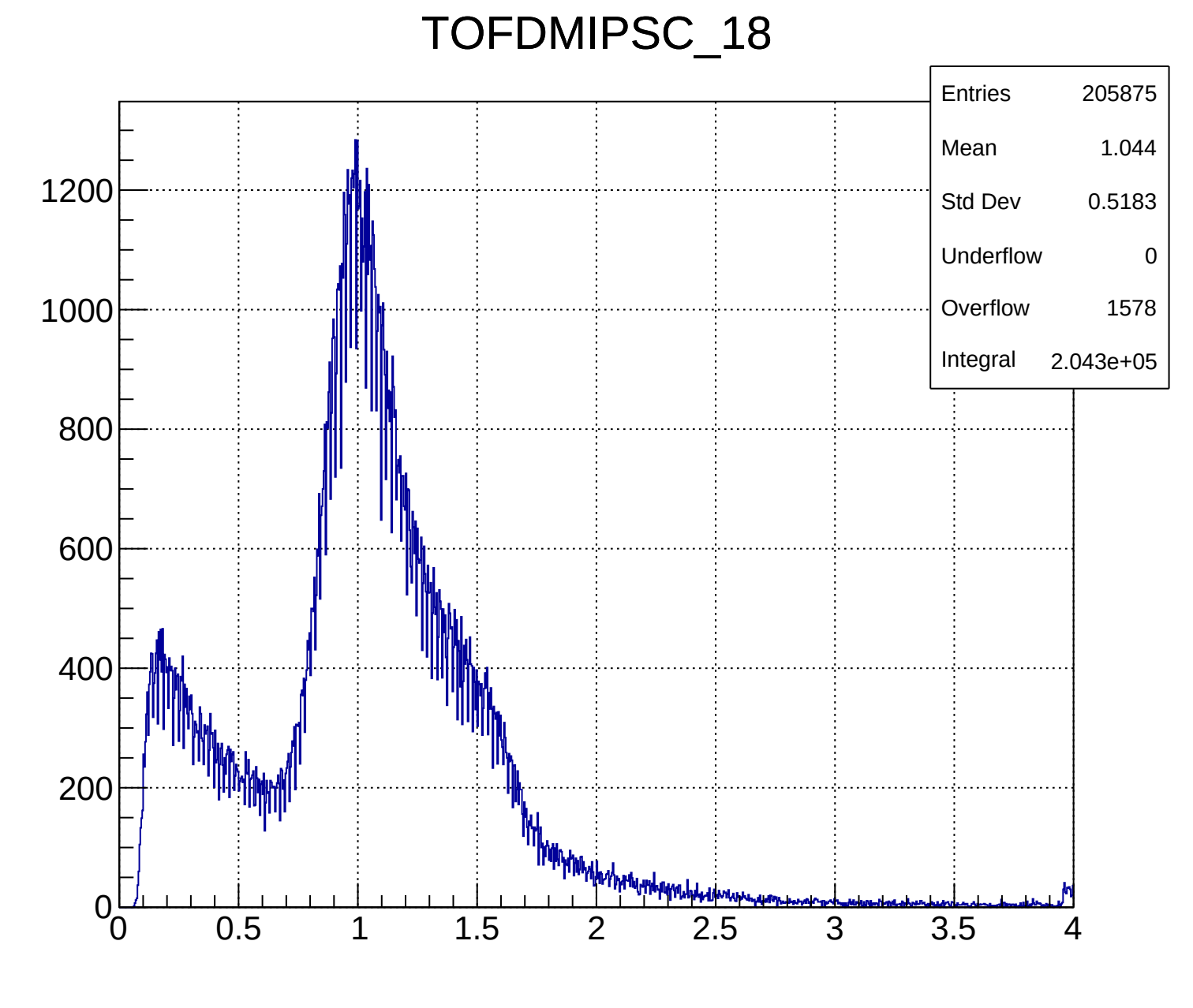

TOFDMIPSC_13
Entries 703332
Mean 0.9808
Std Dev 0.6402
Underflow 0
Overflow 0
Integral 7.033e+05
4000
3500
3000
2500
2000
1500
1000
500
0
0
0.5
1
1.5
2
2.5
3
3.5
4

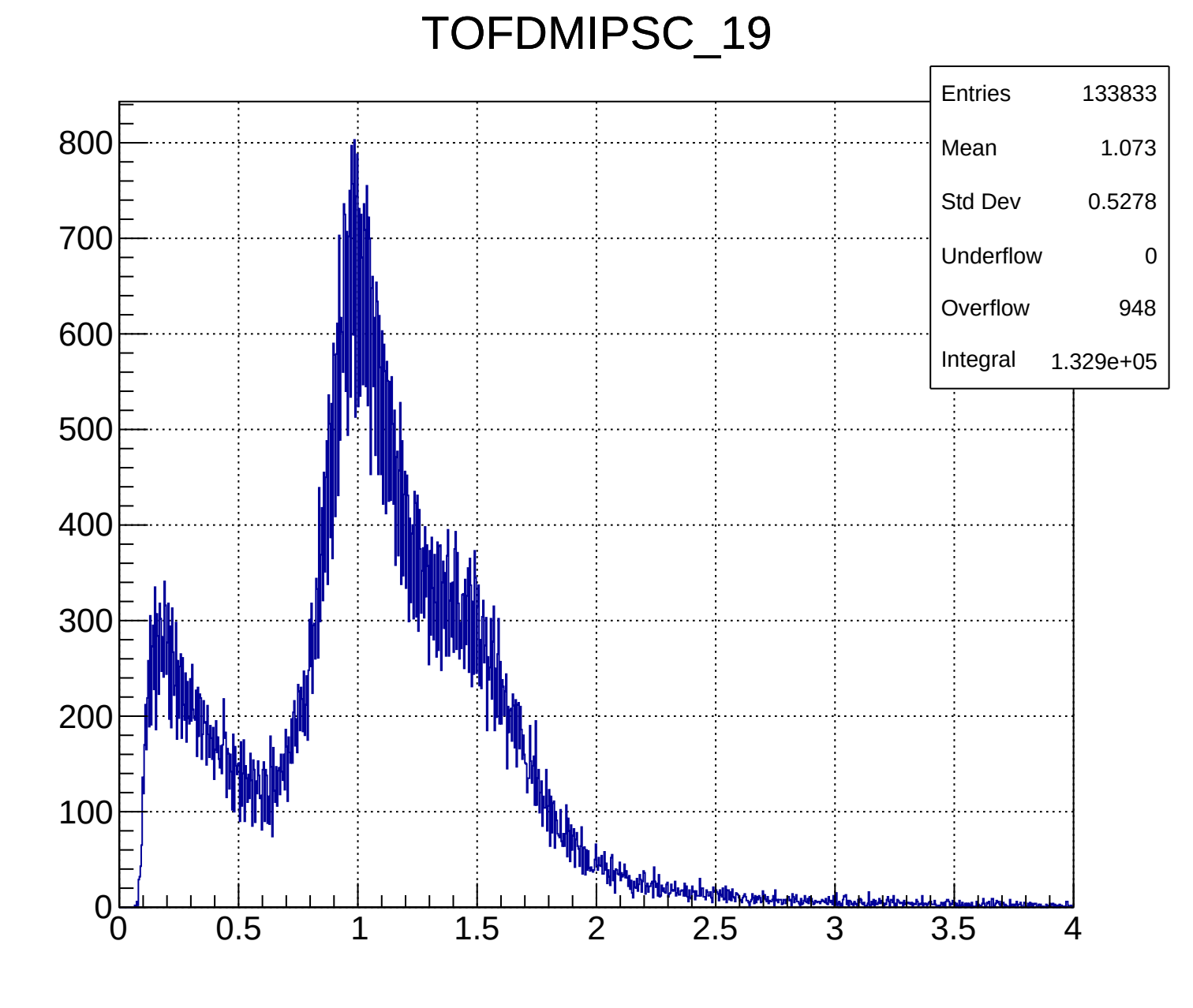

TOFDMIPSC_14
Entries 215677
Mean 1.34
Std Dev 0.7074
Underflow 0
Overflow 1003
Integral 2.147e+05
700
600
500
400
300
200
100
0
0
0.5
1
1.5
2
2.5
3
3.5
4

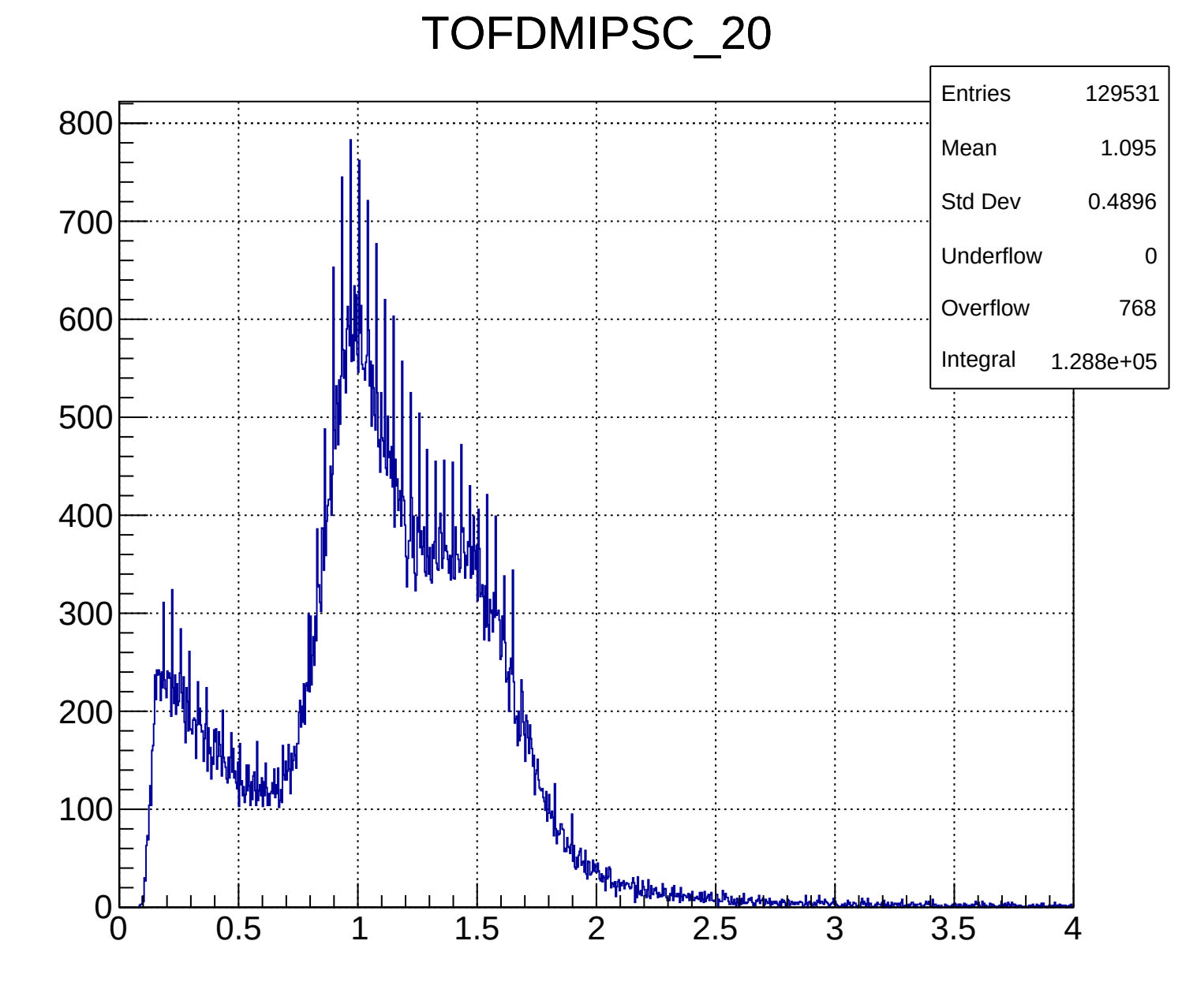

TOFDMIPSC_15
Entries 237426
Mean 1.069
Std Dev 0.5973
Underflow 0
Overflow 0
Integral 2.374e+05
1200
1000
800
600
400
200
0
0
0.5
1
1.5
2
2.5
3
3.5
4

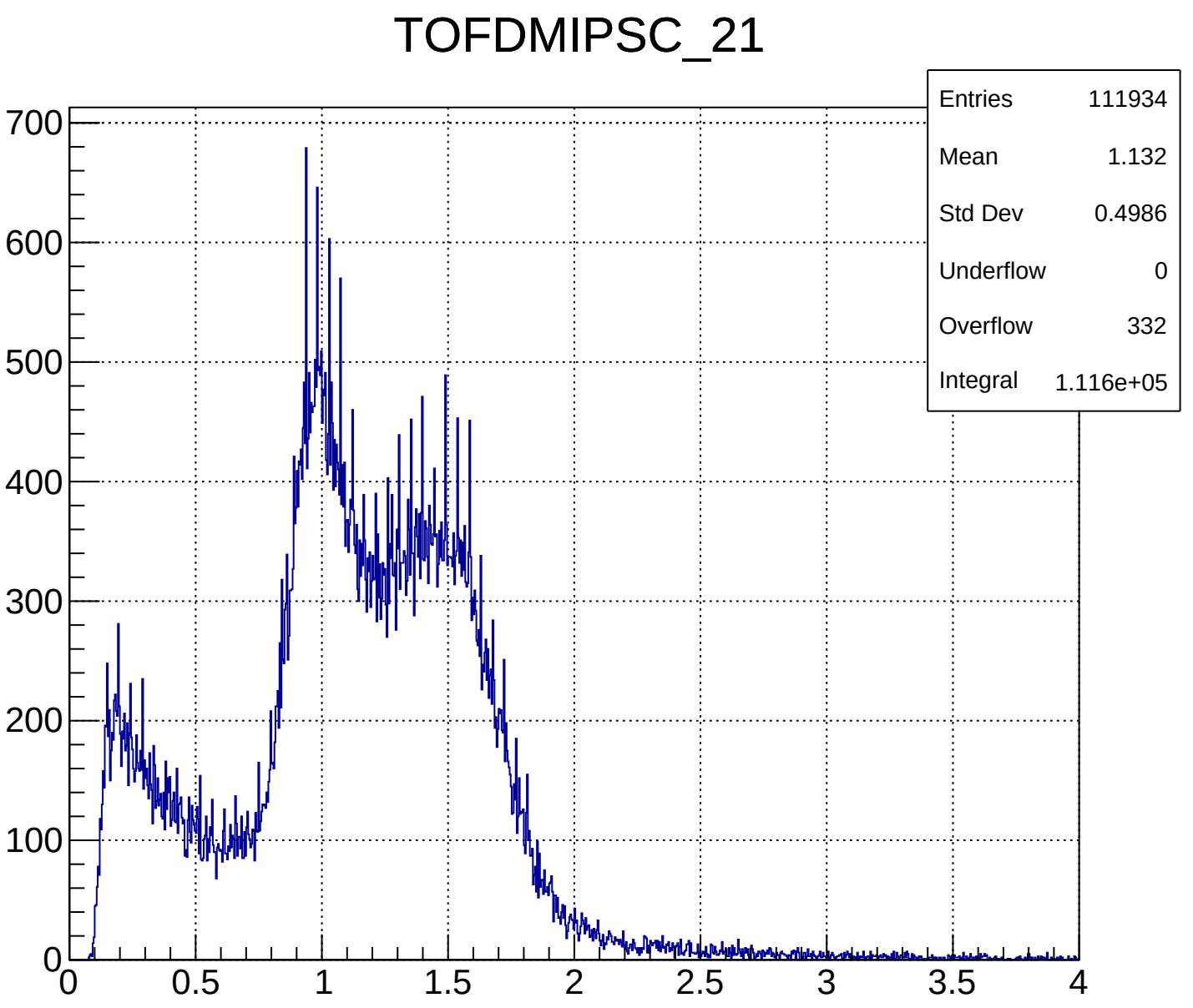

TOFDMIPSC_16
Entries 206476
Mean 1.14
Std Dev 0.5714
Underflow 0
Overflow 0
Integral 2.065e+05
900
800
700
600
500
400
300
200
100
0
0
0.5
1
1.5
2
2.5
3
3.5
4

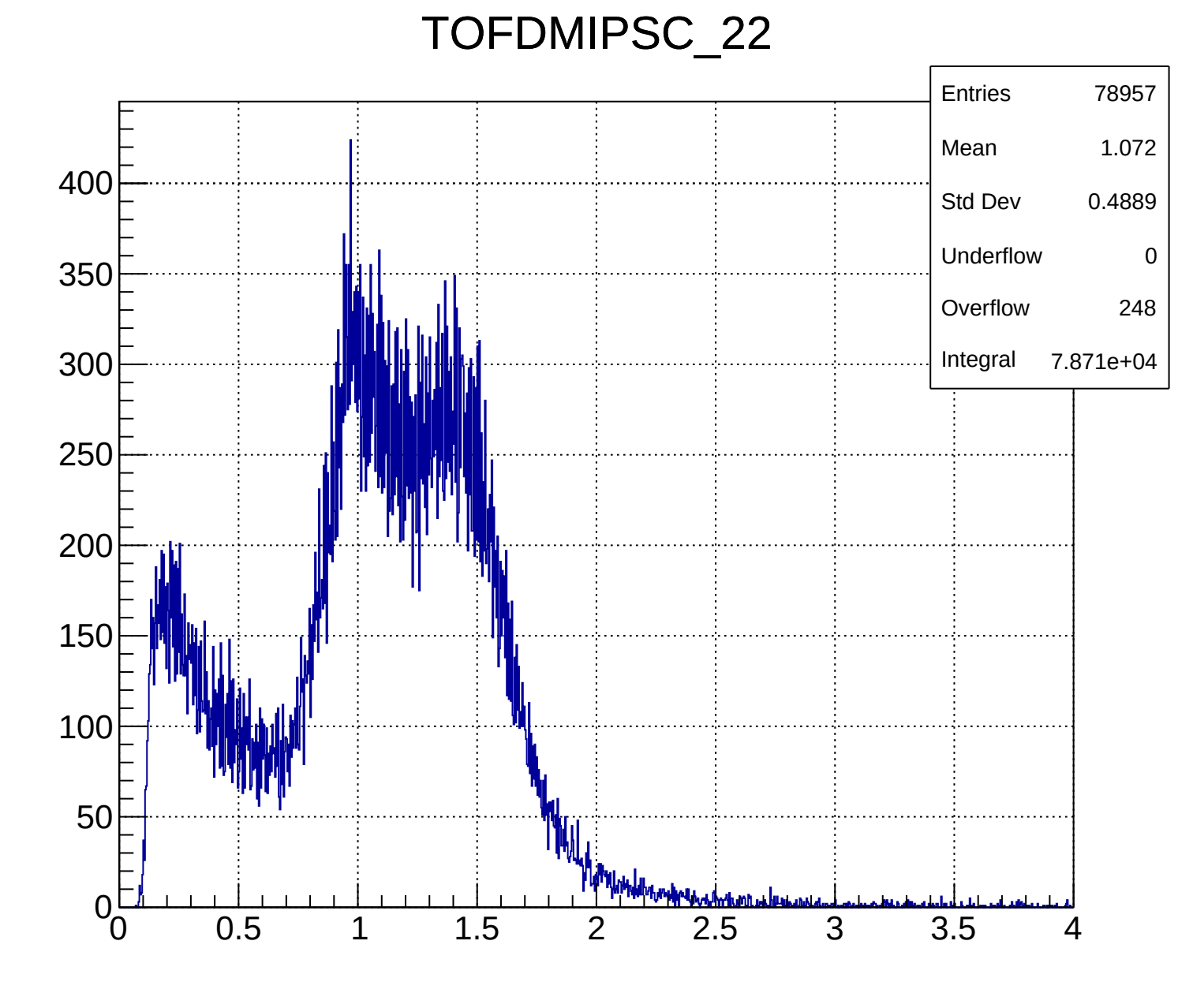

TOFDMIPSC_17
Entries 268039
Mean 1.007
Std Dev 0.6418
Underflow 0
Overflow 173
Integral 2.679e+05
1400
1200
1000
800
600
400
200
0
0
0.5
1
1.5
2
2.5
3
3.5
4

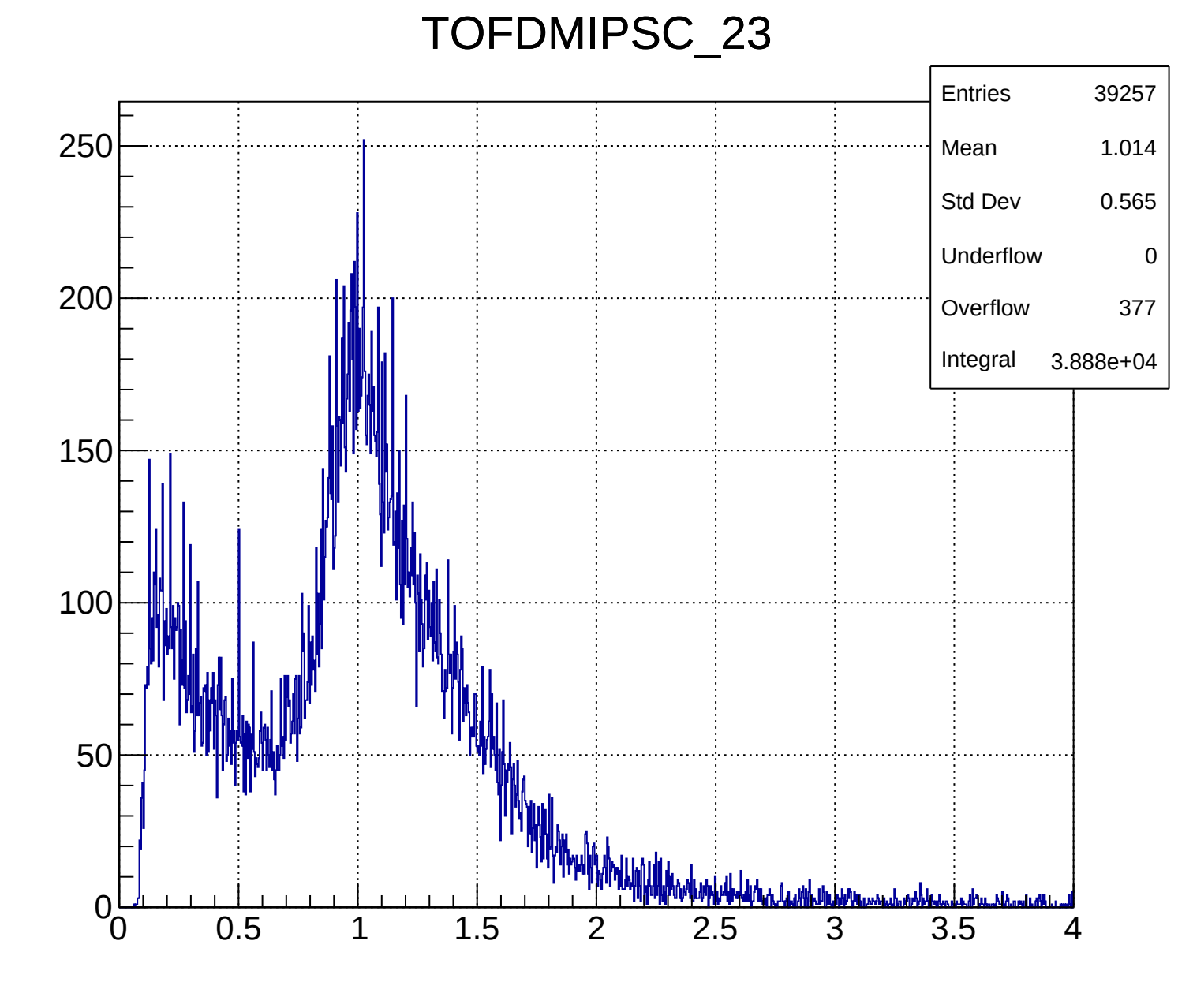

TOFDMIPSC_18
Entries 205875
Mean 1.044
Std Dev 0.5183
Underflow 0
Overflow 1578
Integral 2.043e+05
1200
1000
800
600
400
200
0
0
0.5
1
1.5
2
2.5
3
3.5
4

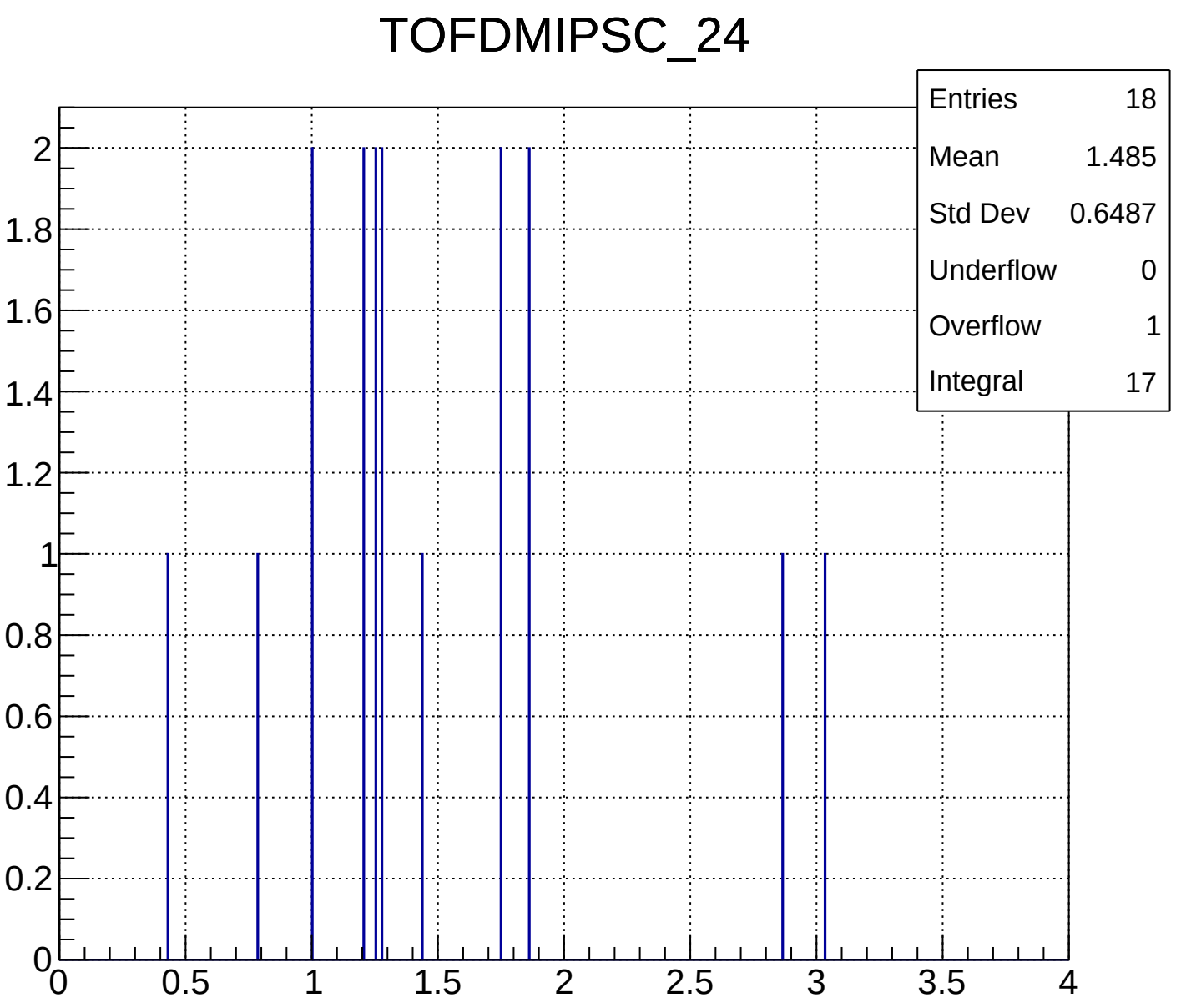

TOFDMIPSC_19
Entries 133833
Mean 1.073
Std Dev 0.5278
Underflow 0
Overflow 948
Integral 1.329e+05
800
700
600
500
400
300
200
100
0
0
0.5
1
1.5
2
2.5
3
3.5
4

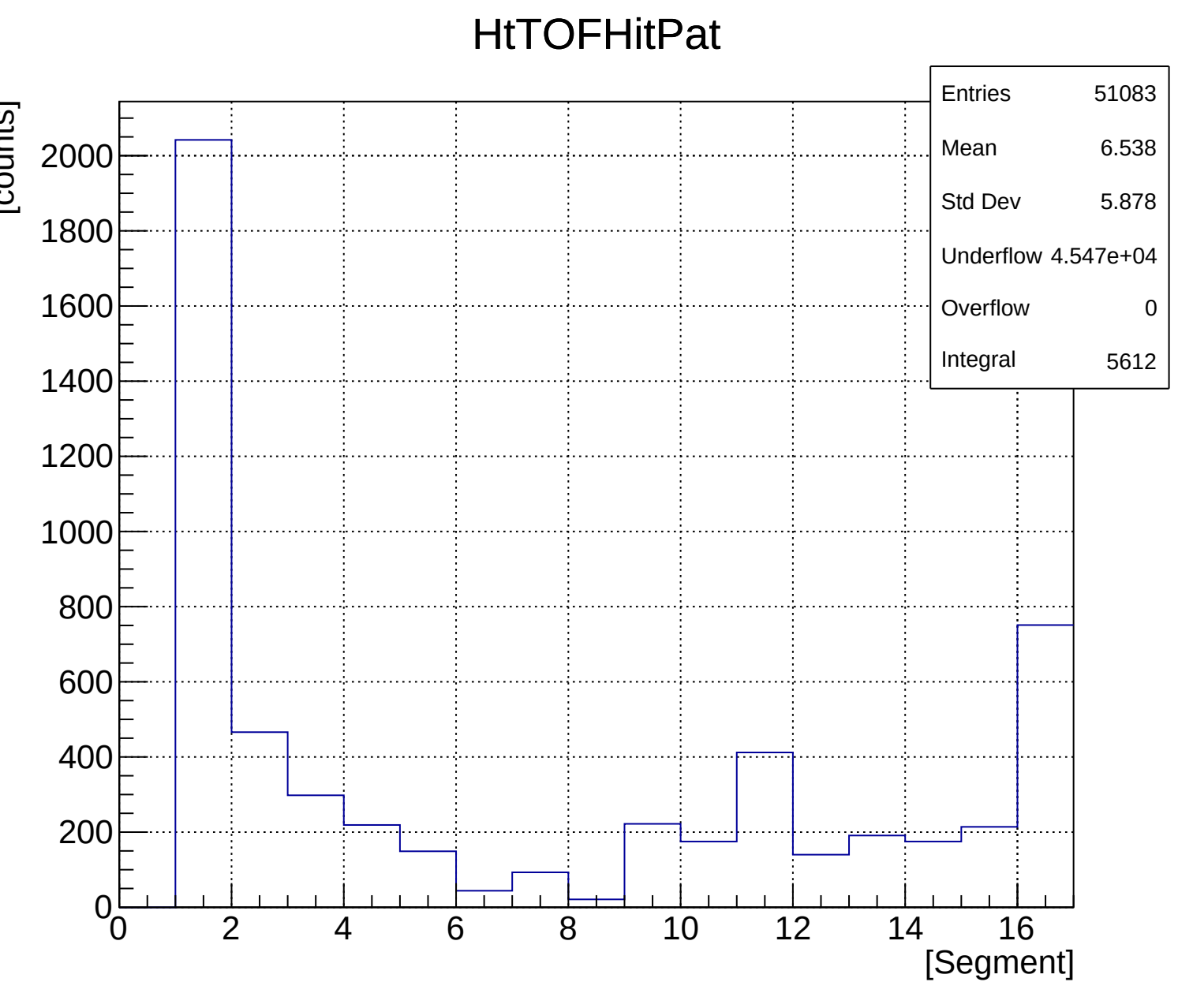

TOFDMIPSC_20
Entries 129531
Mean 1.095
Std Dev 0.4896
Underflow 0
Overflow 768
Integral 1.288e+05
800
700
600
500
400
300
200
100
0
0
0.5
1
1.5
2
2.5
3
3.5
4

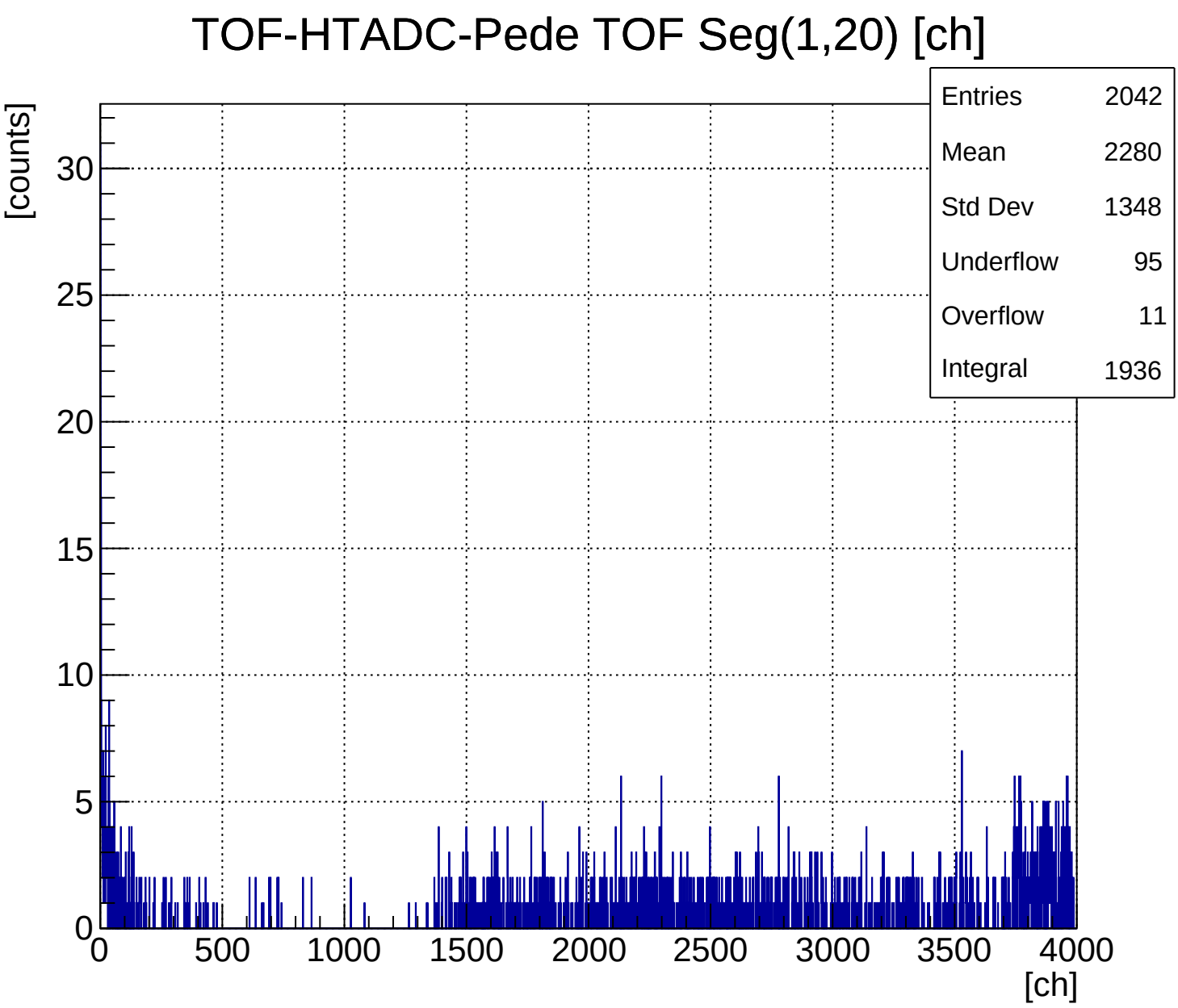

TOFDMIPSC_21
Entries 111934
Mean 1.132
Std Dev 0.4986
Underflow 0
Overflow 332
Integral 1.116e+05
700
600
500
400
300
200
100
0
0
0.5
1
1.5
2
2.5
3
3.5
4


TOFDMIPSC_22
Entries 78957
Mean 1.072
Std Dev 0.4889
Underflow 0
Overflow 248
Integral 7.871e+04
400
350
300
250
200
150
100
50
0
0
0.5
1
1.5
2
2.5
3
3.5
4


TOFDMIPSC_23
Entries 39257
Mean 1.014
Std Dev 0.565
Underflow 0
Overflow 377
Integral 3.888e+04
250
200
150
100
50
0
0
0.5
1
1.5
2
2.5
3
3.5
4


TOFDMIPSC_24
Entries 18
Mean 1.485
Std Dev 0.6487
Underflow 0
Overflow 1
Integral 17
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2
0
0.5
1
1.5
2
2.5
3
3.5
4


HtTOFHitPat
Entries 51083
Mean 6.538
Std Dev 5.878
Underflow 4.547e+04
Overflow 0
Integral 5612
[counts]
2000
1800
1600
1400
1200
1000
800
600
400
200
0
0
2
4
6
8
10
12
14
16
[Segment]


TOF-HTADC-Pede TOF Seg(1,20) [ch]
Entries 2042
Mean 2280
Std Dev 1348
Underflow 95
Overflow 11
Integral 1936
[counts]
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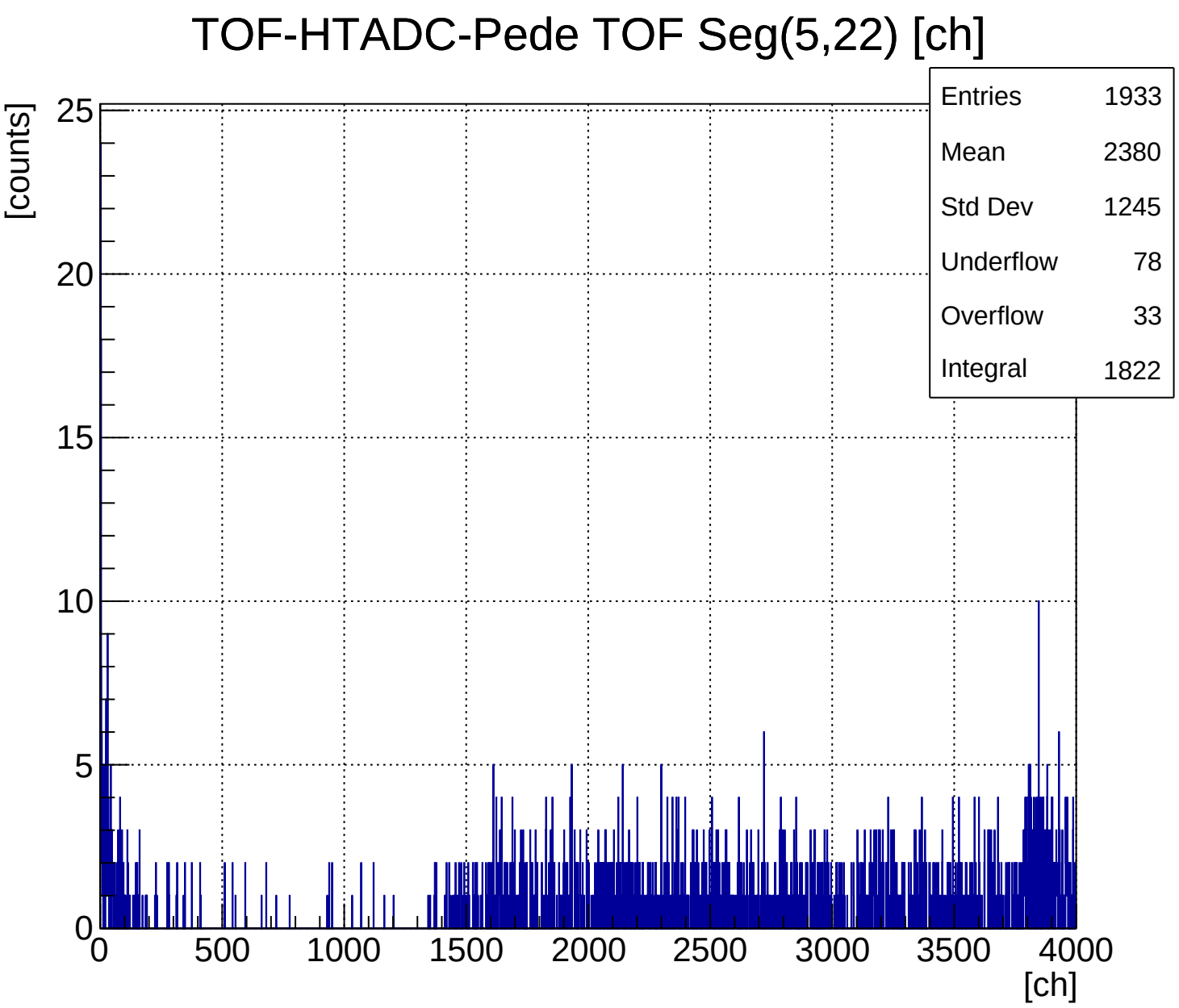
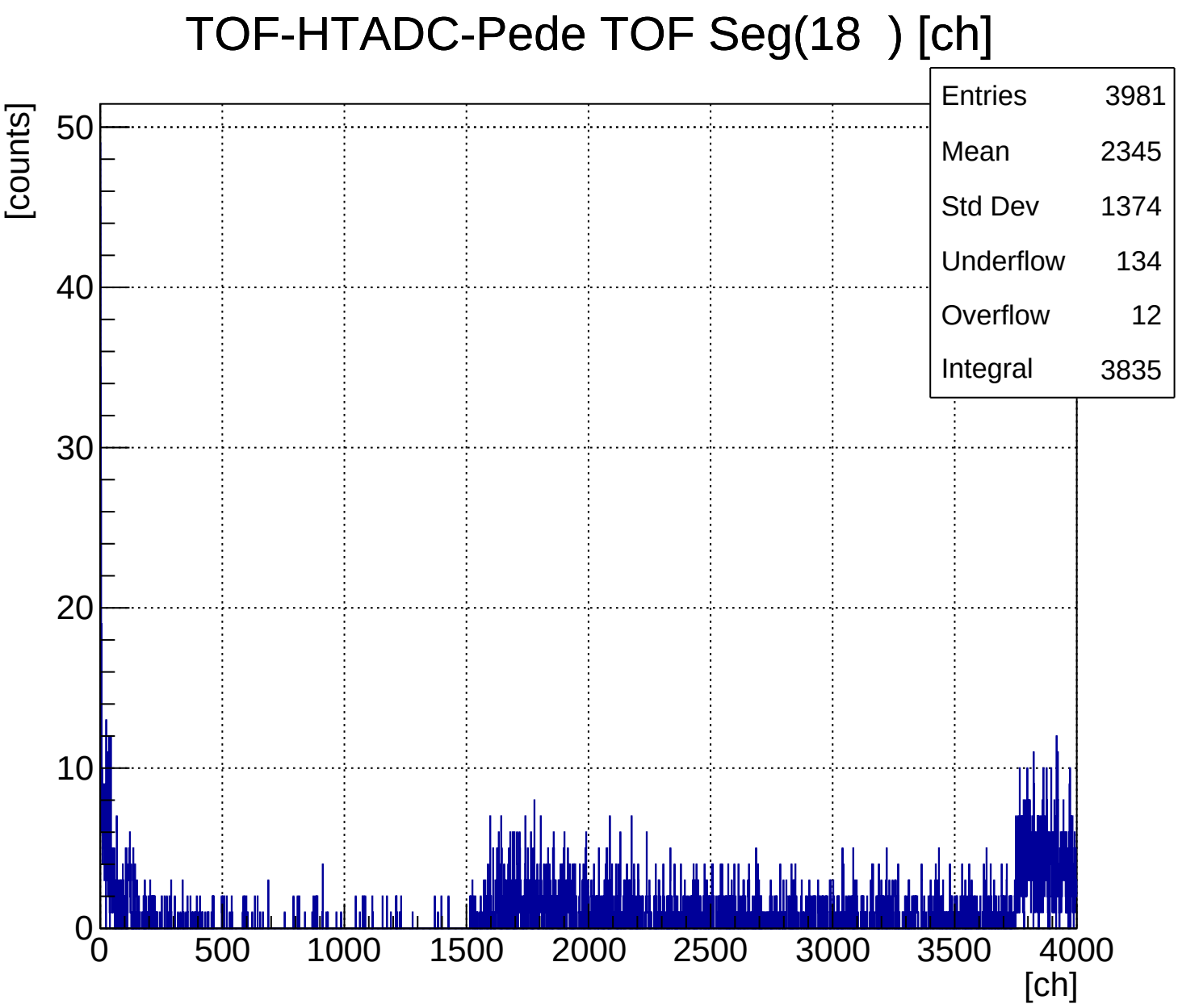
5
10
15
20
25
30
0
500
1000
1500
2000
2500
3000
3500
4000
[ch]


TOF-HTADC-Pede TOF Seg(5,22) [ch]
Entries 1933
Mean 2380
Std Dev 1245
Underflow 78
Overflow 33
Integral 1822
[counts]
25
20
15
10
5
0
0
500
1000
1500
2000
2500
3000
3500
4000
[ch]


TOF-HTADC-Pede TOF Seg(18) [ch]
Entries 3981
Mean 2345
Std Dev 1374
Underflow 134
Overflow 12
Integral 3835
[counts]
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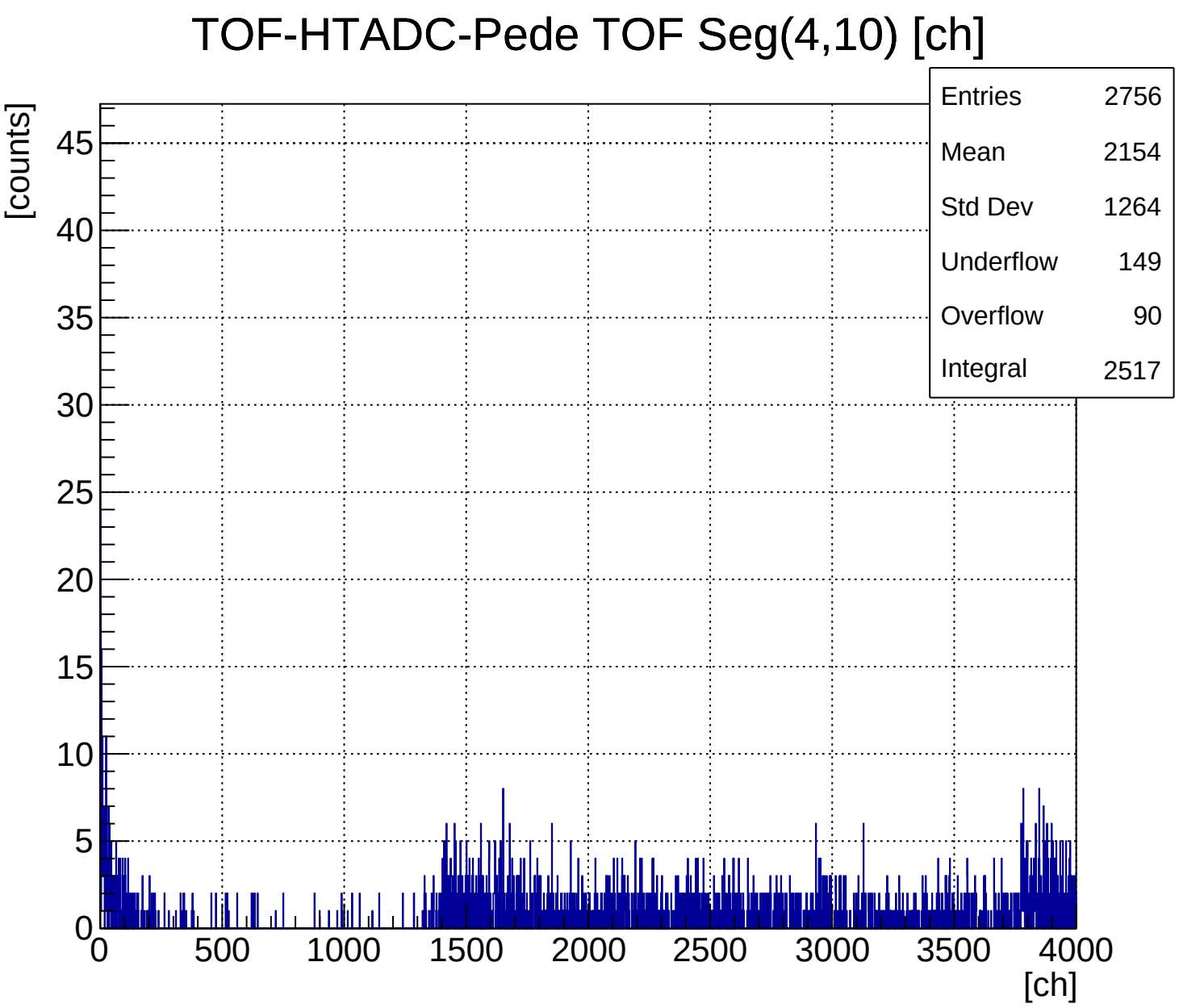
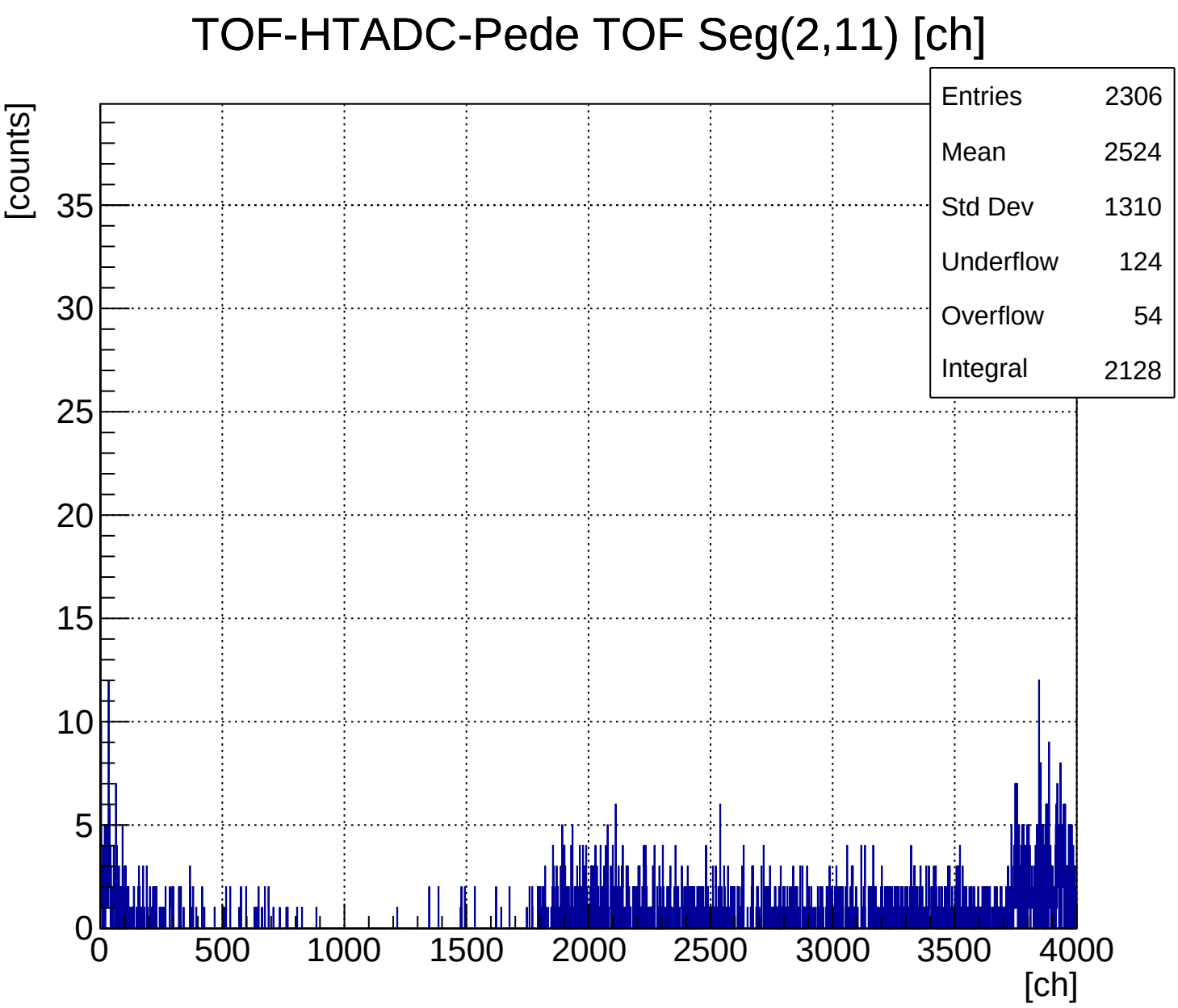
10
20
30
40
50
0
500
1000
1500
2000
2500
3000
3500
4000
[ch]


TOF-HTADC-Pede TOF Seg(4,10) [ch]
Entries 2756
Mean 2154
Std Dev 1264
Underflow 149
Overflow 90
Integral 2517
[counts]
0
5
10
15
20
25
30
35
40
45
0
500
1000
1500
2000
2500
3000
3500
4000
[ch]


TOF-HTADC-Pede TOF Seg(2,11) [ch]
Entries 2306
Mean 2524
Std Dev 1310
Underflow 124
Overflow 54
Integral 2128
[counts]
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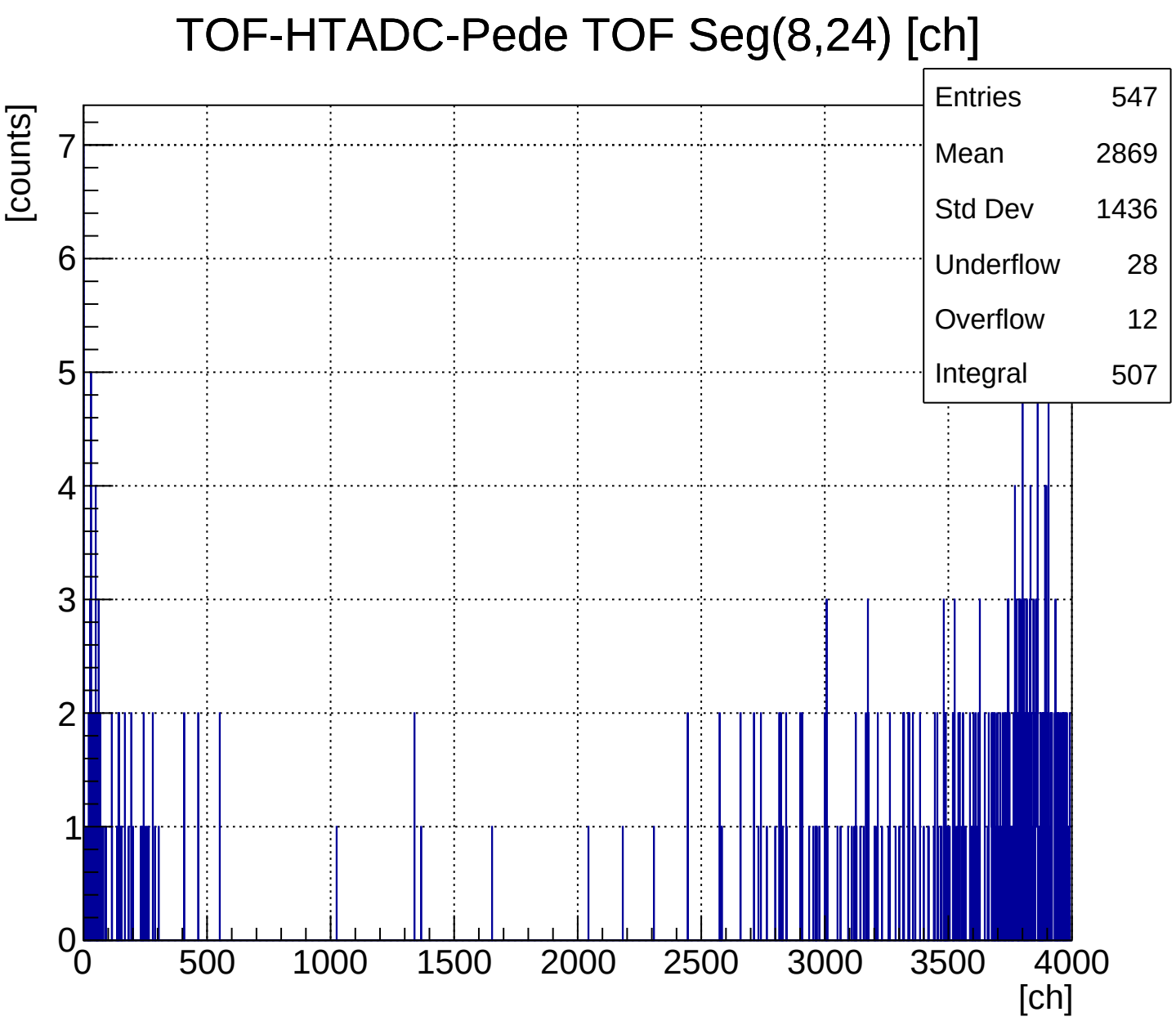
5
10
15
20
25
30
35
0
500
1000
1500
2000
2500
3000
3500
4000
[ch]


TOF-HTADC-Pede TOF Seg(8,24) [ch]
Entries 547
Mean 2869
Std Dev 1436
Underflow 28
Overflow 12
Integral 507
[counts]
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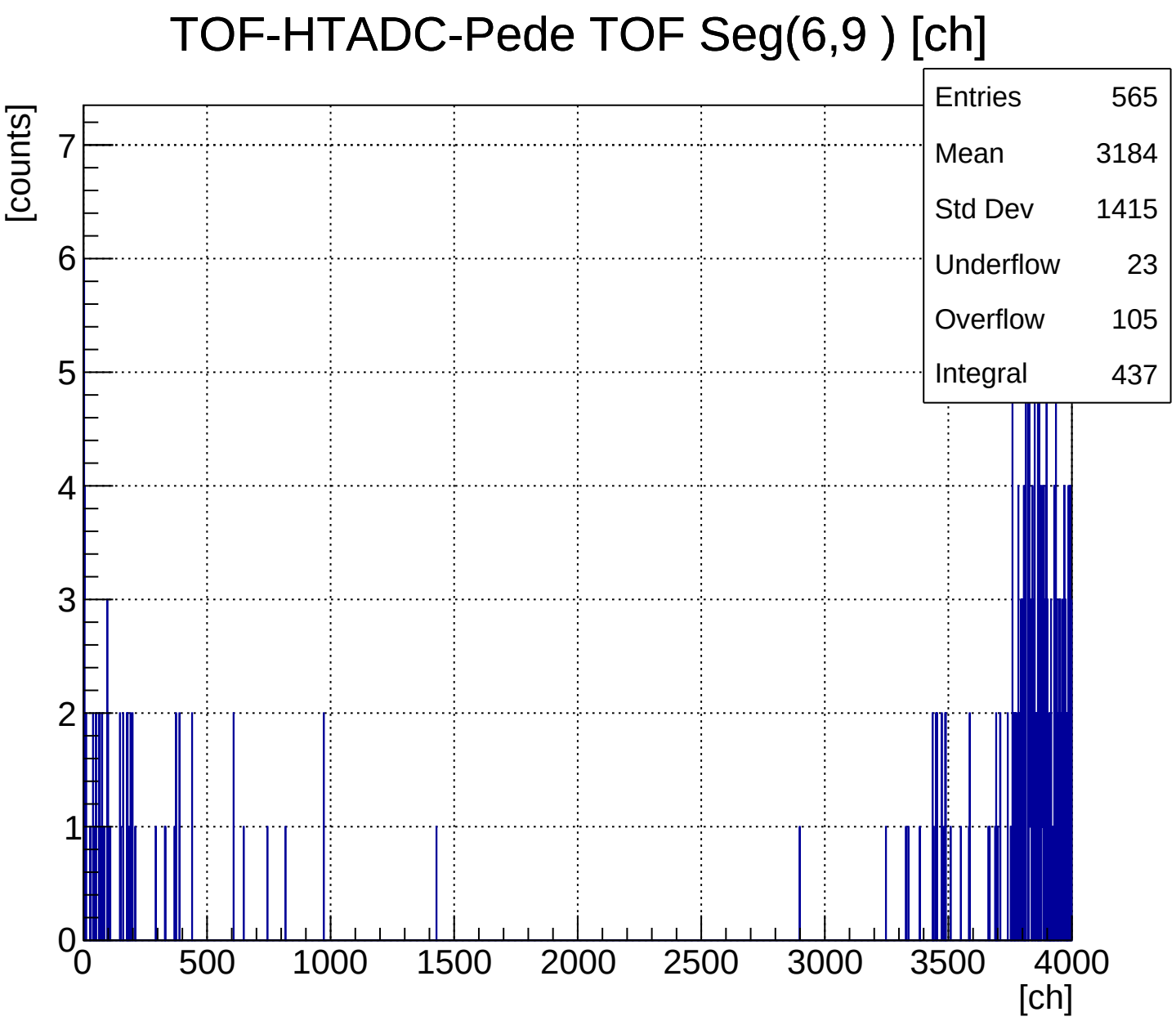
1
2
3
4
5
6
7
0
500
1000
1500
2000
2500
3000
3500
4000
[ch]


TOF-HTADC-Pede TOF Seg(6,9) [ch]
Entries 565
Mean 3184
Std Dev 1415
Underflow 23
Overflow 105
Integral 437
[counts]
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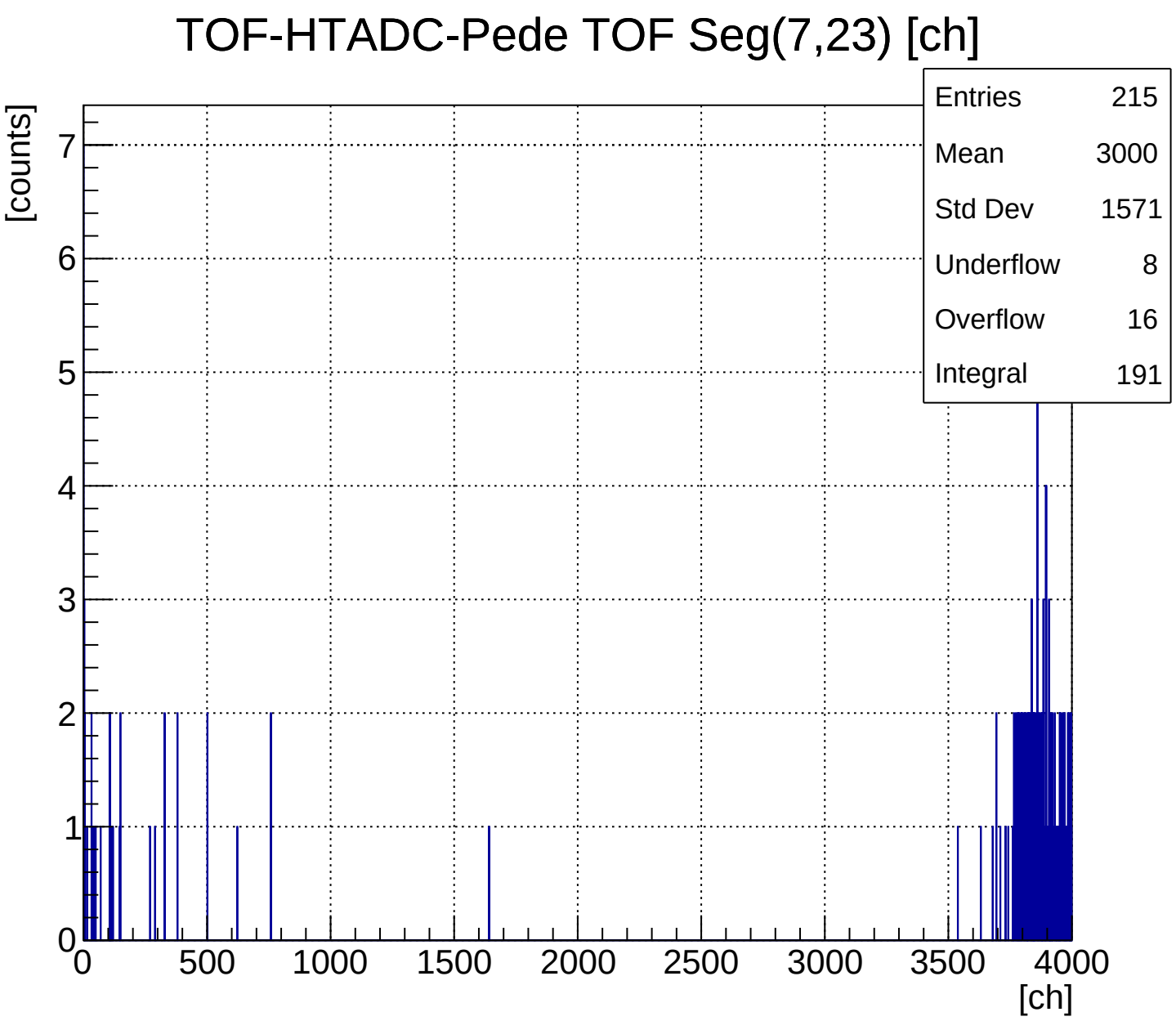
1
2
3
4
5
6
7
0
500
1000
1500
2000
2500
3000
3500
4000
[ch]


TOF-HTADC-Pede TOF Seg(7,23) [ch]
Entries 215
Mean 3000
Std Dev 1571
Underflow 8
Overflow 16
Integral 191
[counts]
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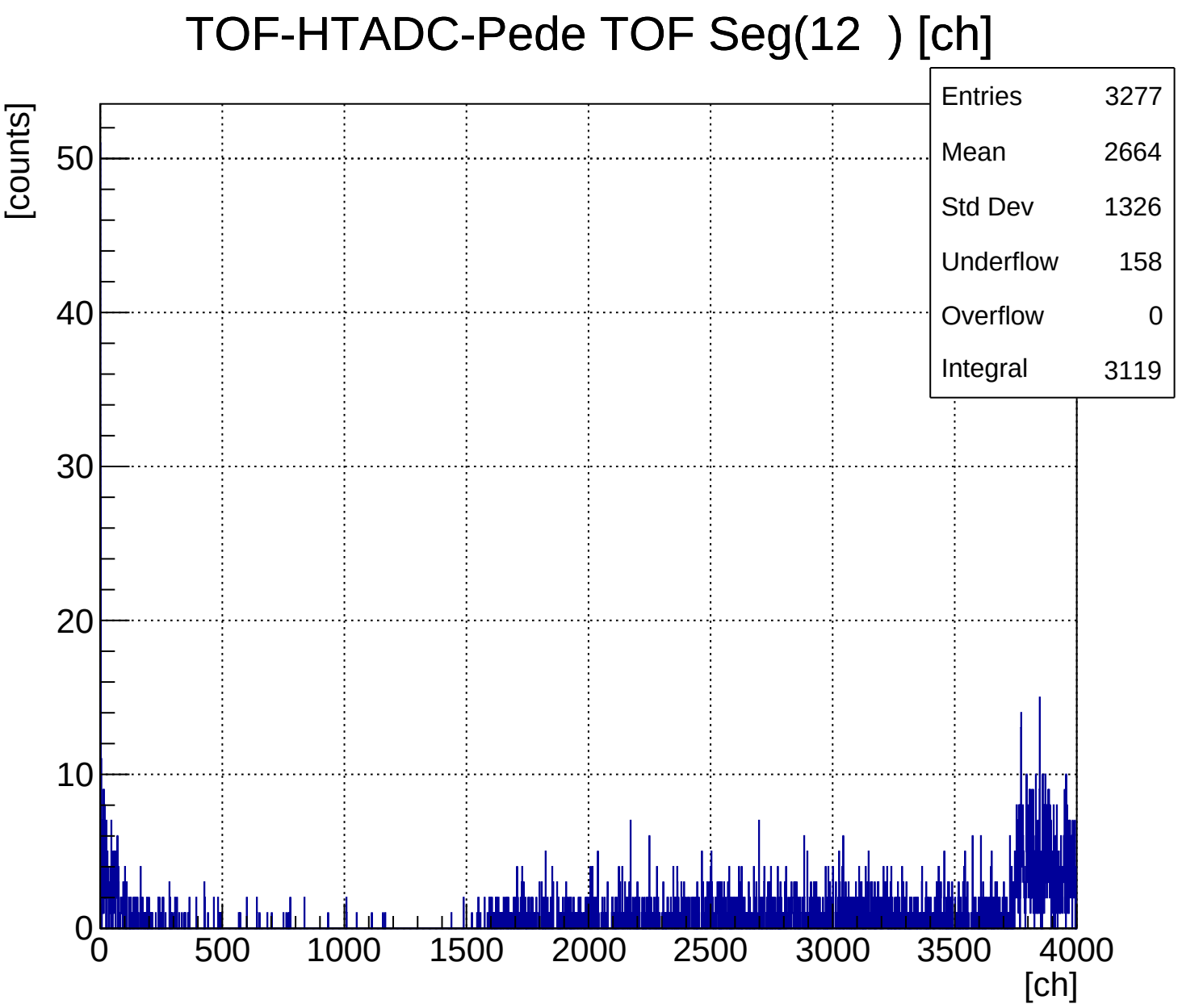
1
2
3
4
5
6
7
0
500
1000
1500
2000
2500
3000
3500
4000
[ch]


TOF-HTADC-Pede TOF Seg(12) [ch]
Entries 3277
Mean 2664
Std Dev 1326
Underflow 158
Overflow 0
Integral 3119
[counts]
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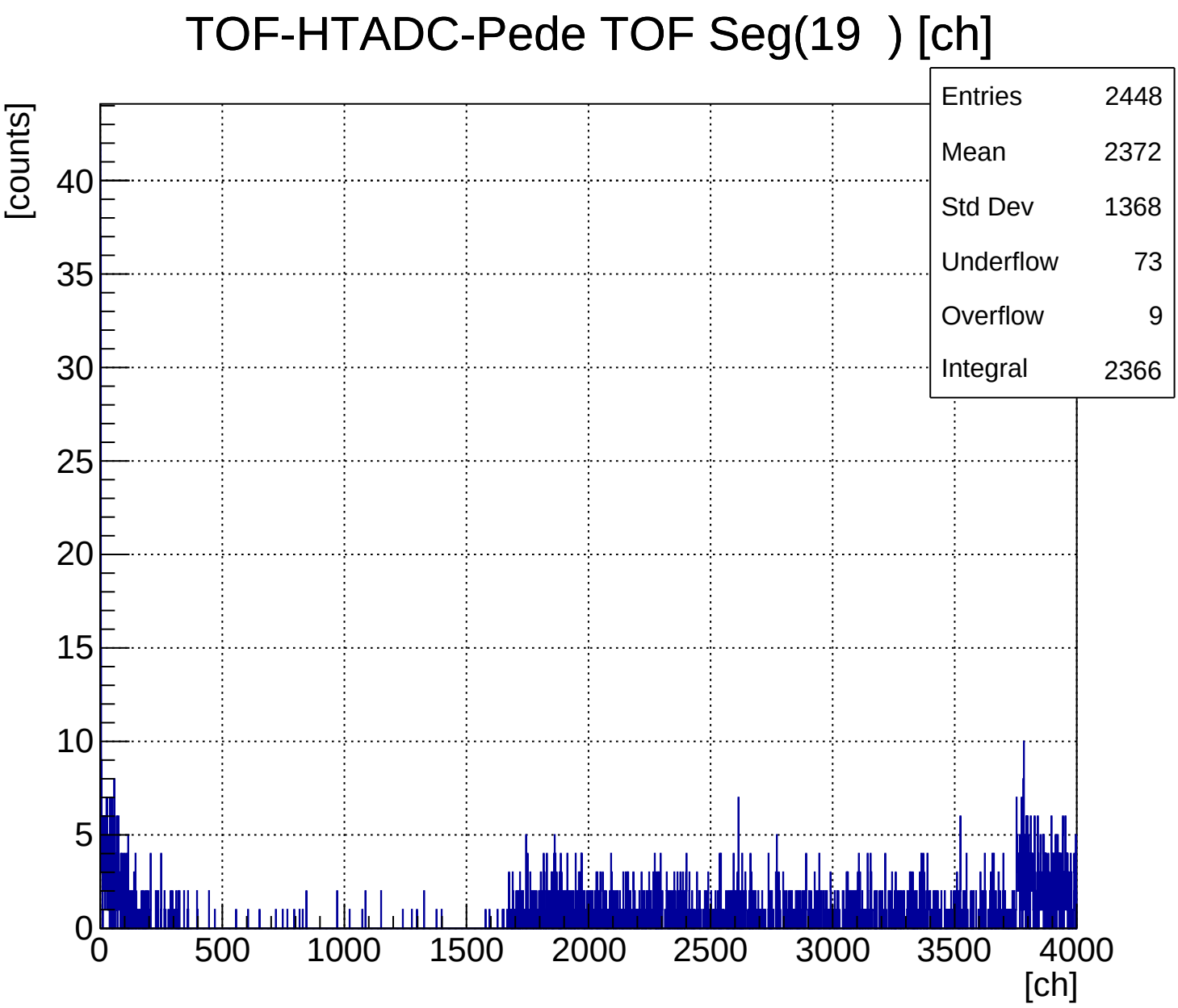
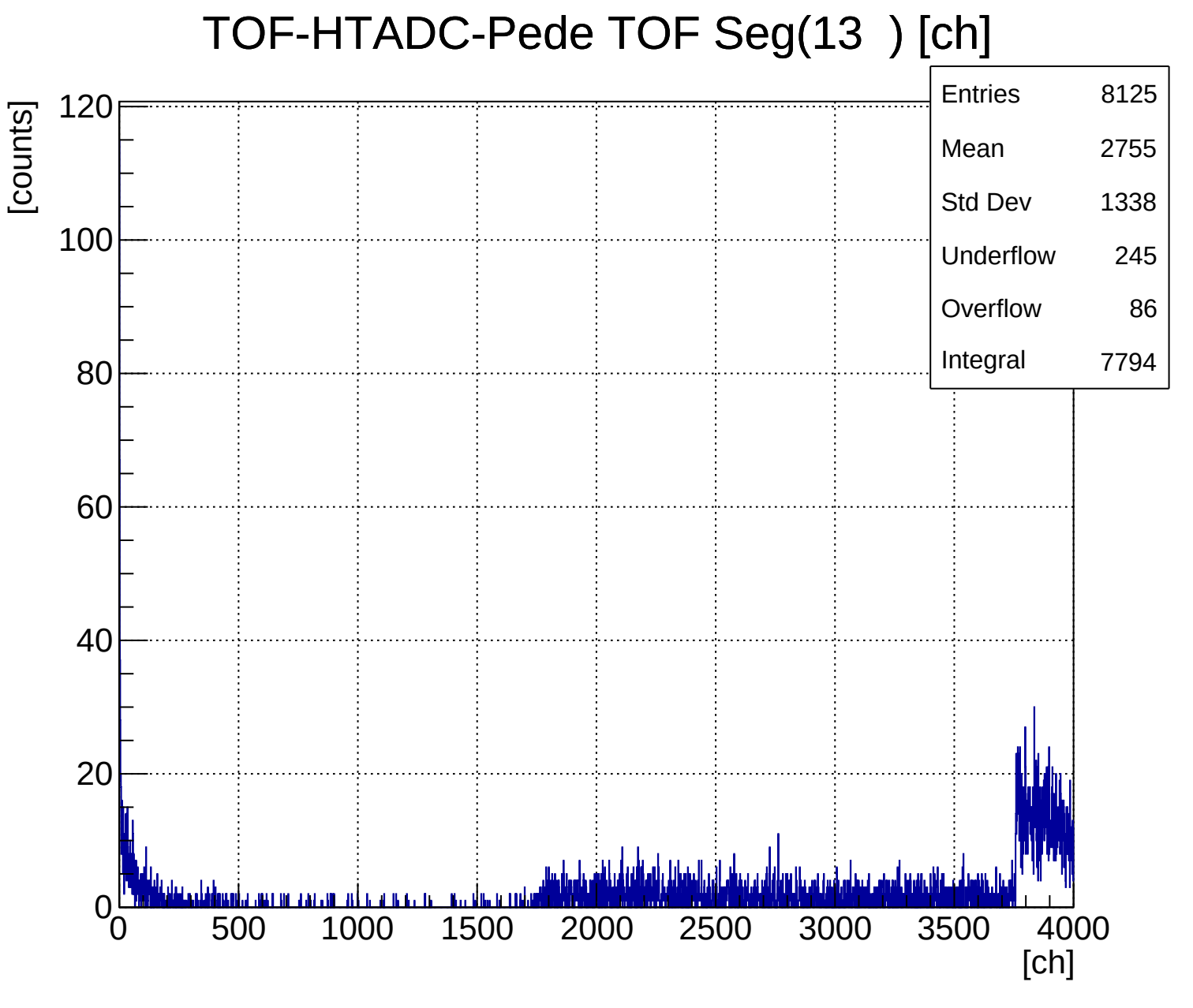
10
20
30
40
50
0
500
1000
1500
2000
2500
3000
3500
4000
[ch]


TOF-HTADC-Pede TOF Seg(19) [ch]
Entries 2448
Mean 2372
Std Dev 1368
Underflow 73
Overflow 9
Integral 2366
[counts]
0
5
10
15
20
25
30
35
40
0
500
1000
1500
2000
2500
3000
3500
4000
[ch]


TOF-HTADC-Pede TOF Seg(13) [ch]
Entries 8125
Mean 2755
Std Dev 1338
Underflow 245
Overflow 86
Integral 7794
[counts]
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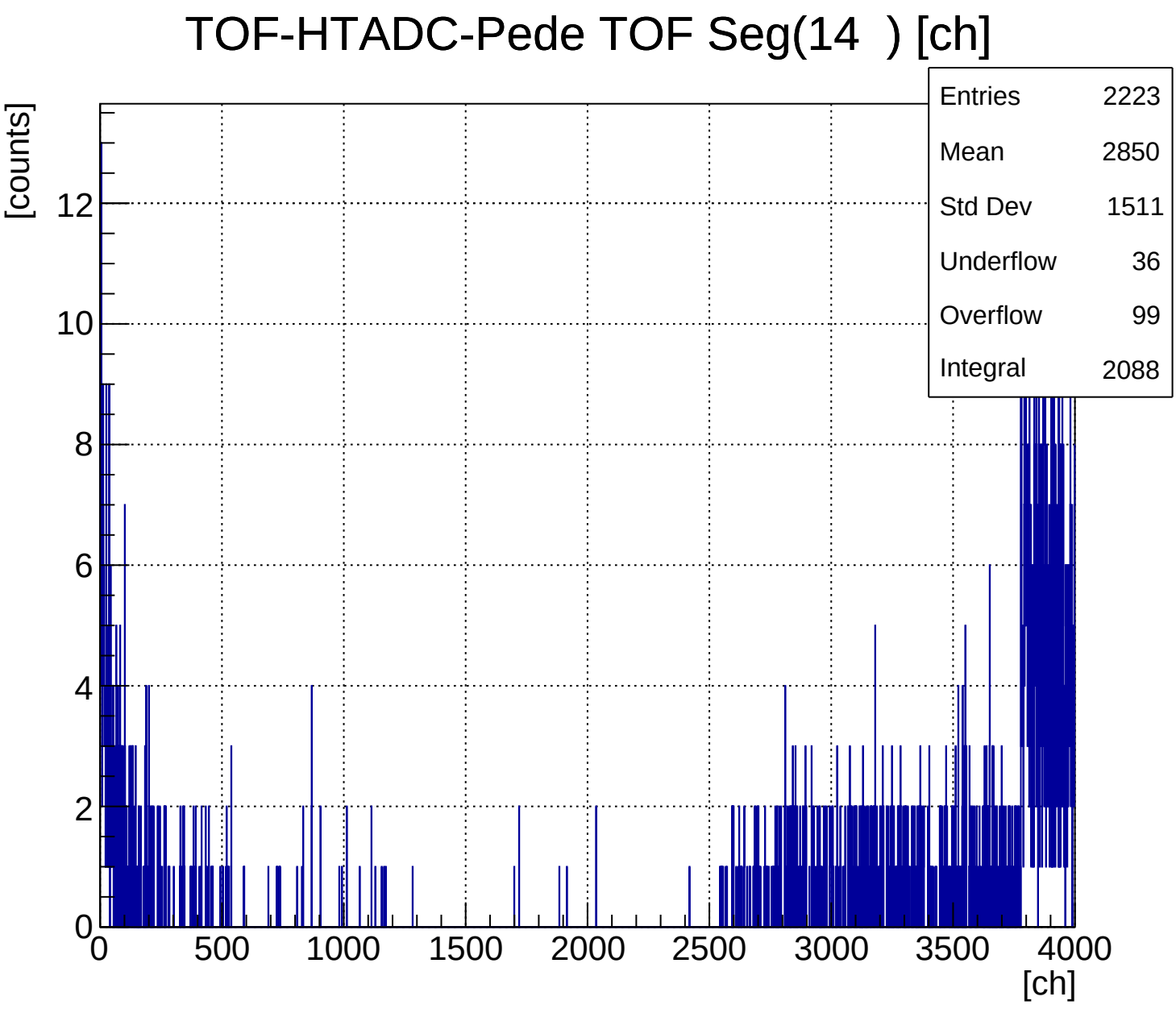
100
80
60
40
20
0
0
500
1000
1500
2000
2500
3000
3500
4000
[ch]


TOF-HTADC-Pede TOF Seg(14) [ch]
Entries 2223
Mean 2850
Std Dev 1511
Underflow 36
Overflow 99
Integral 2088
[counts]
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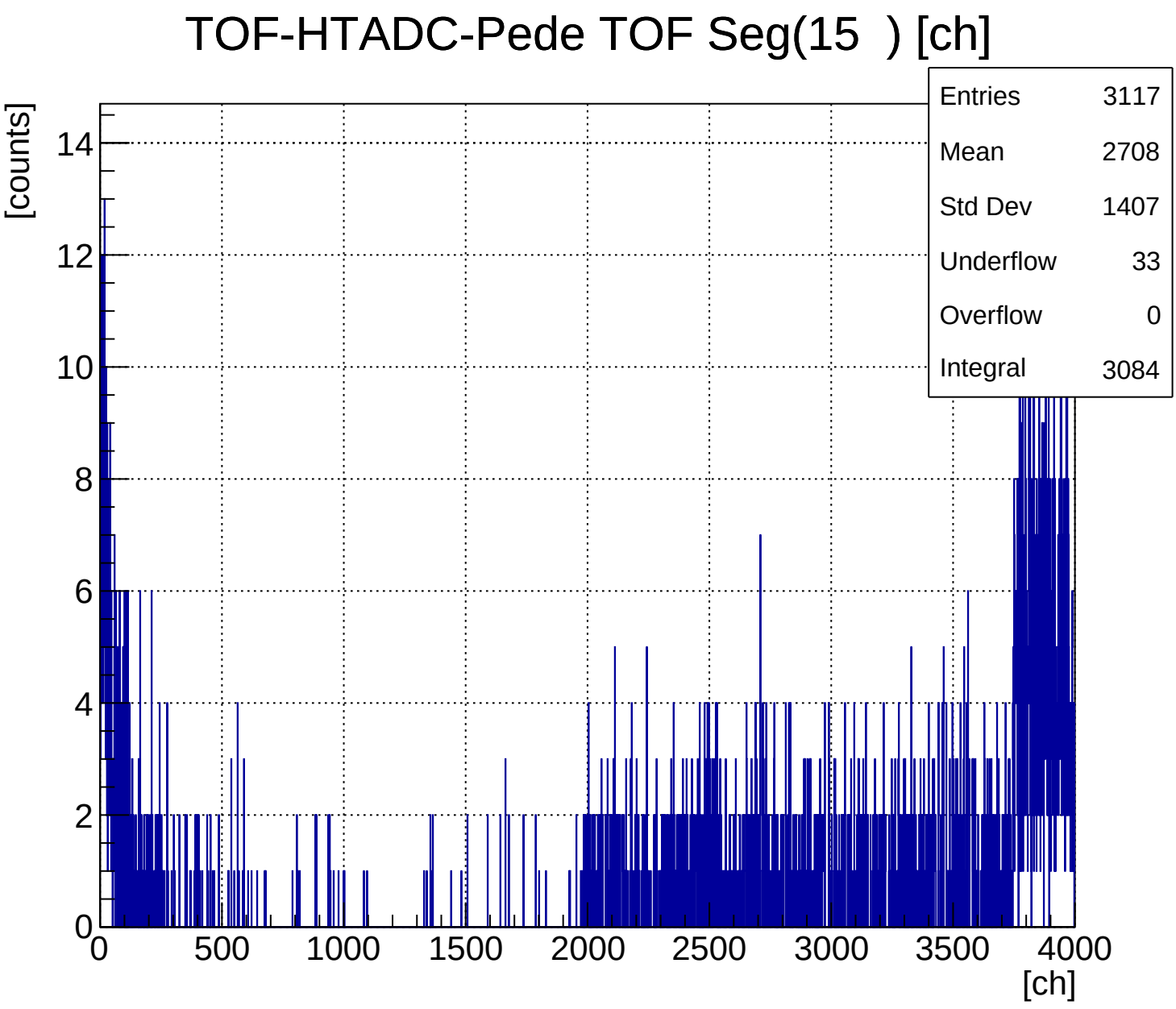
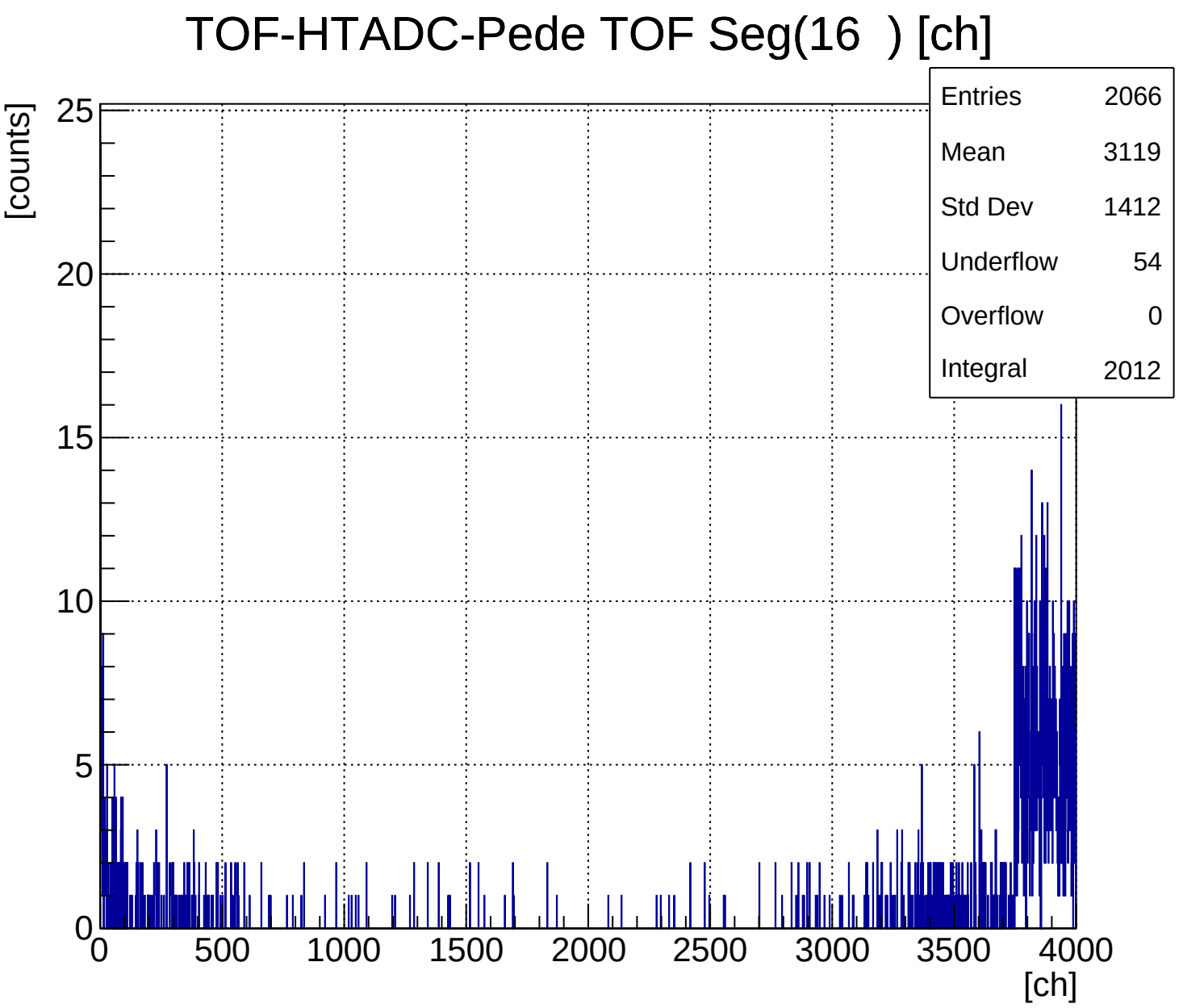
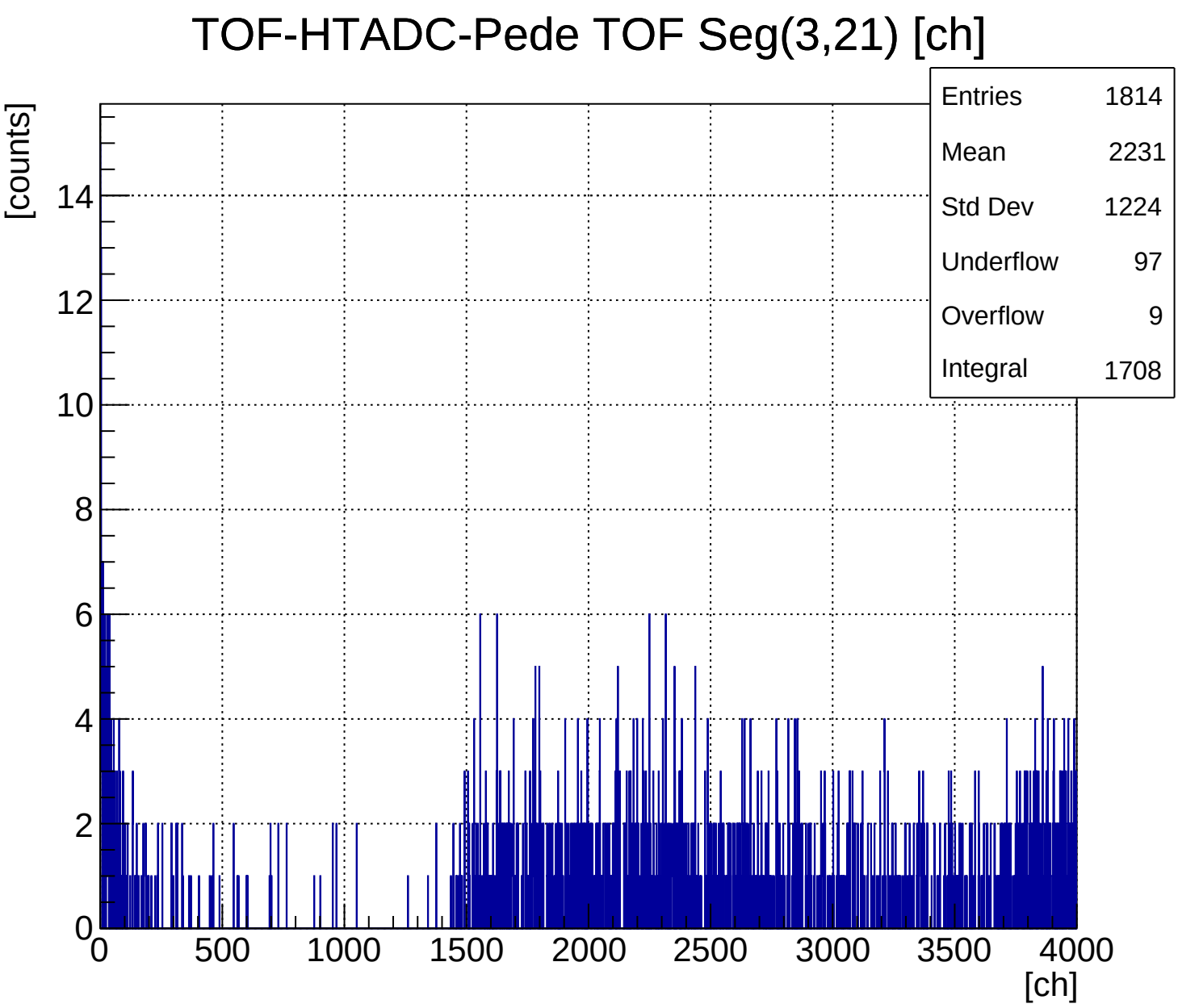
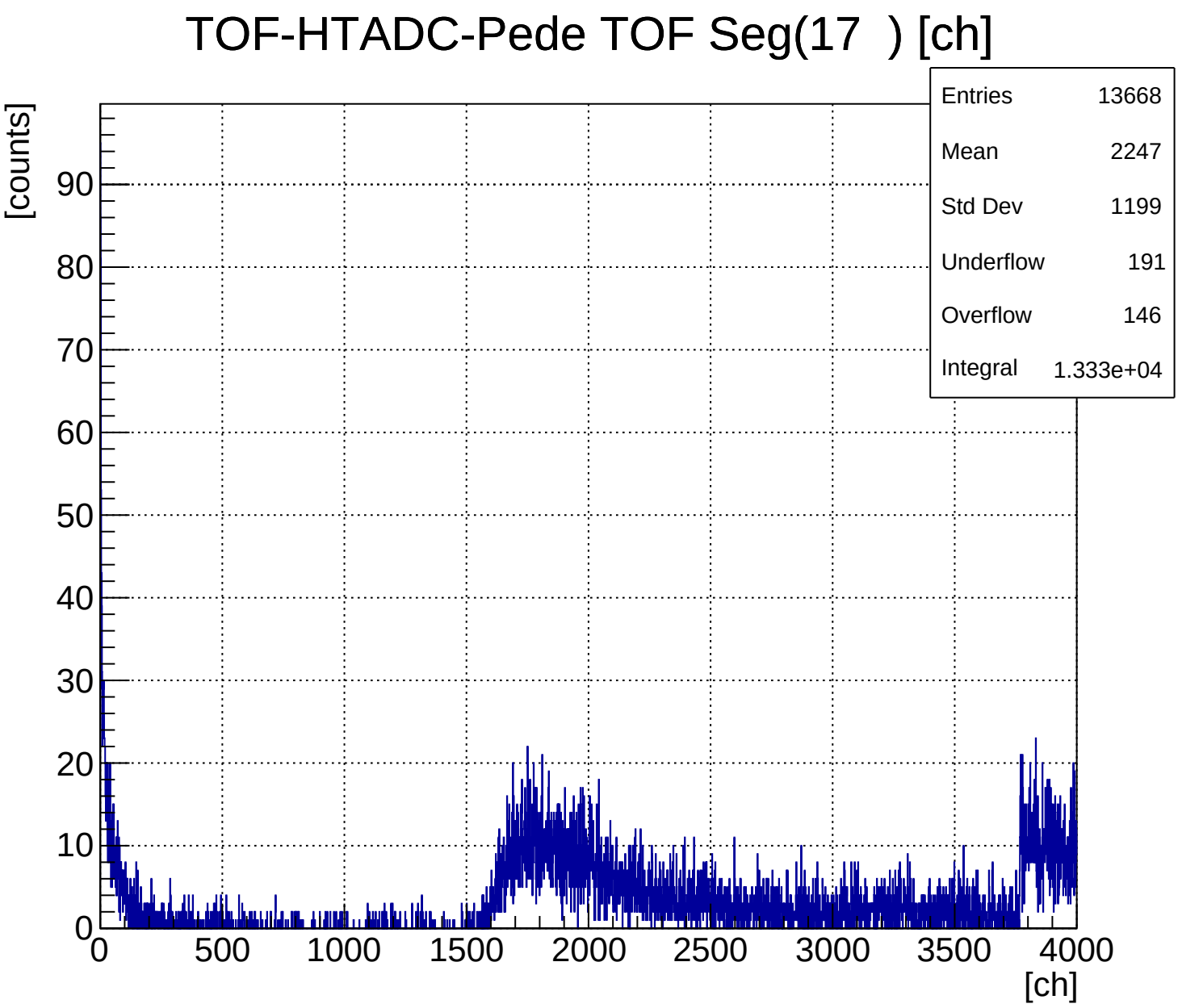
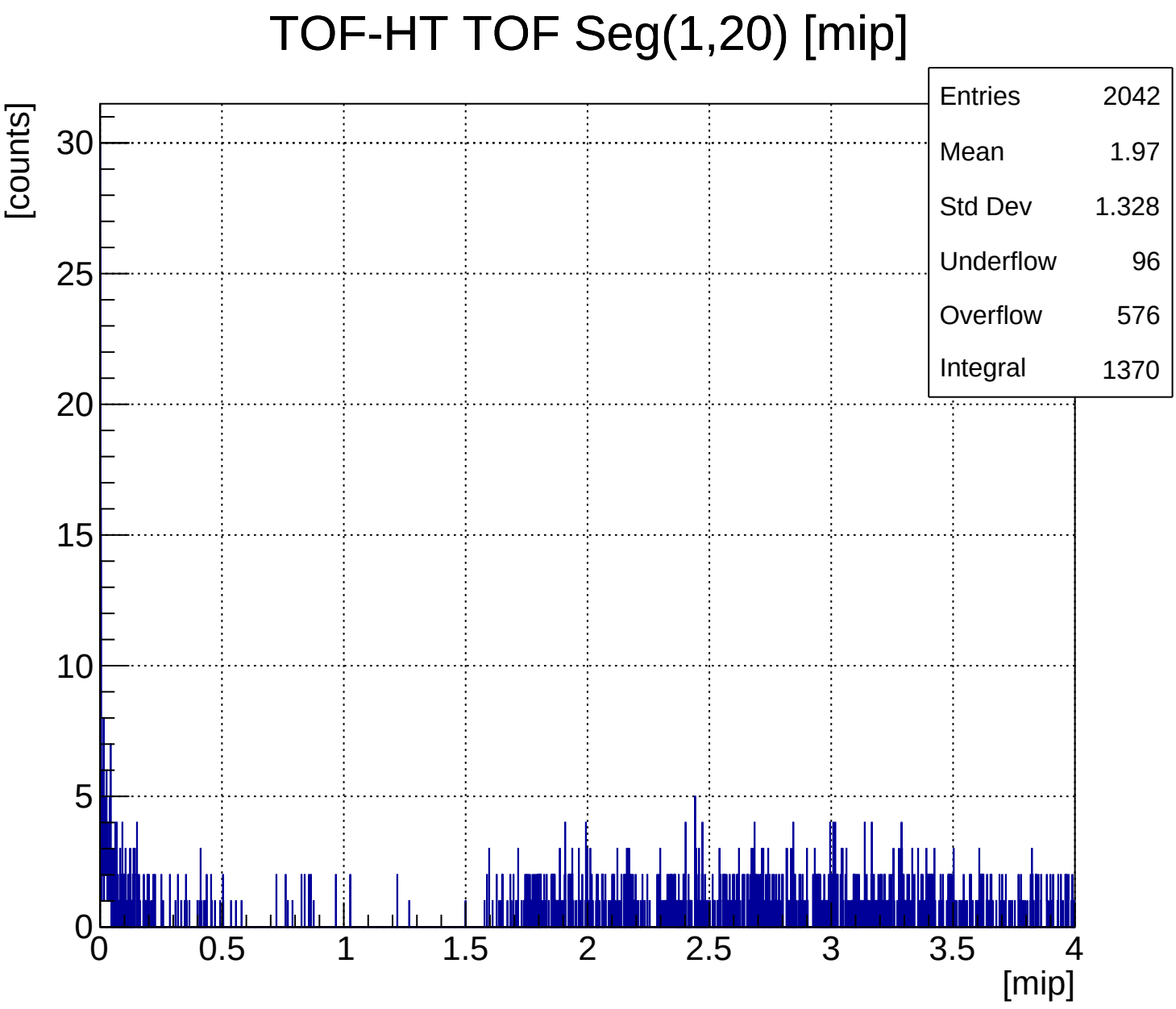
2
4
6
8
10
12
0
500
1000
1500
2000
2500
3000
3500
4000
[ch]

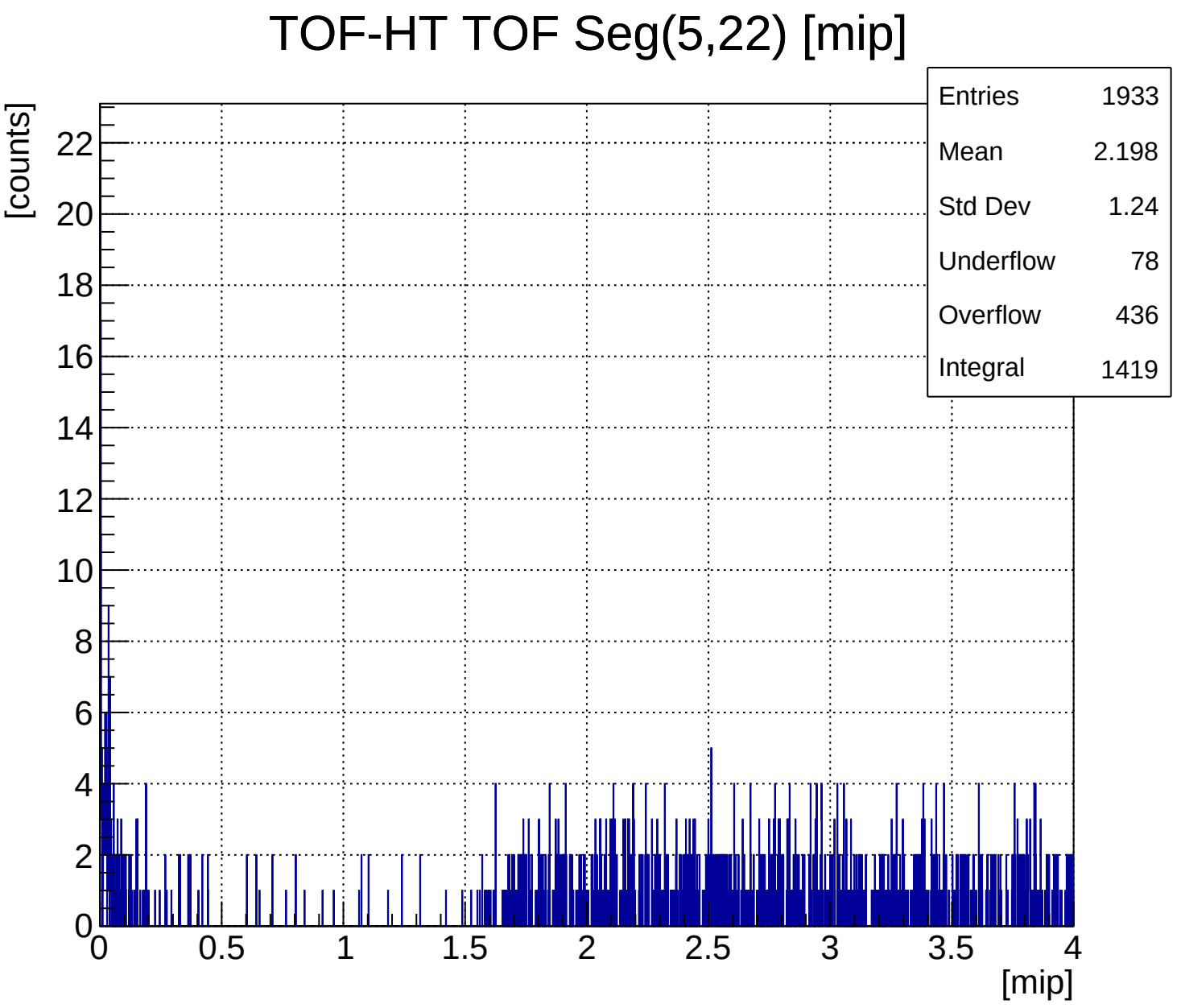

TOF-HTADC-Pede TOF Seg(15) [ch]
Entries 3117
Mean 2708
Std Dev 1407
Underflow 33
Overflow 0
Integral 3084
[counts]
0
2
4
6
8
10
12
14
0
500
1000
1500
2000
2500
3000
3500
4000
[ch]

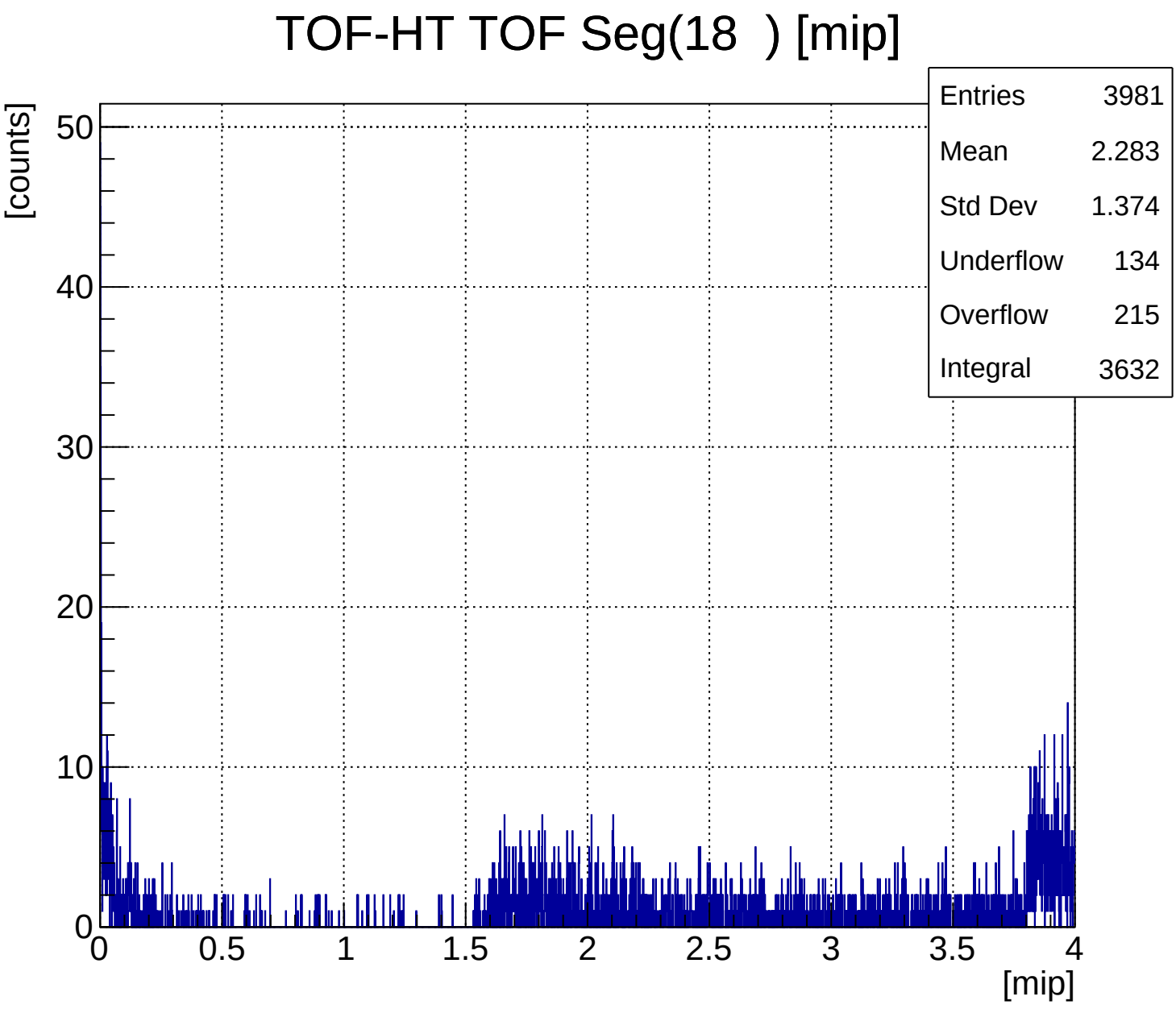

TOF-HTADC-Pede TOF Seg(16) [ch]
Entries 2066
Mean 3119
Std Dev 1412
Underflow 54
Overflow 0
Integral 2012
[counts]
0
5
10
15
20
25
0
500
1000
1500
2000
2500
3000
3500
4000
[ch]

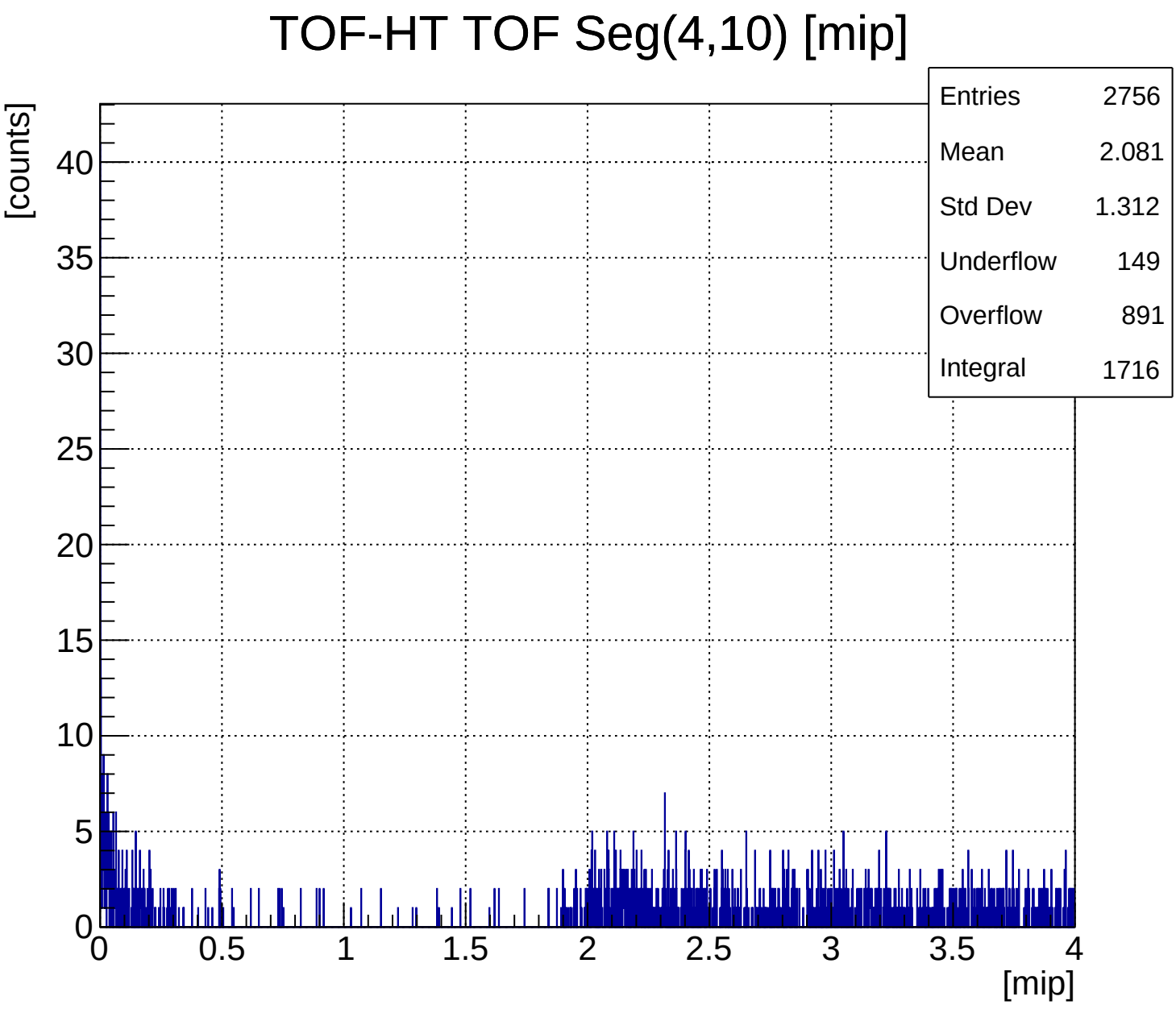

TOF-HTADC-Pede TOF Seg(3,21) [ch]
Entries 1814
Mean 2231
Std Dev 1224
Underflow 97
Overflow 9
Integral 1708
[counts]
0
2
4
6
8
10
12
14
0
500
1000
1500
2000
2500
3000
3500
4000
[ch]

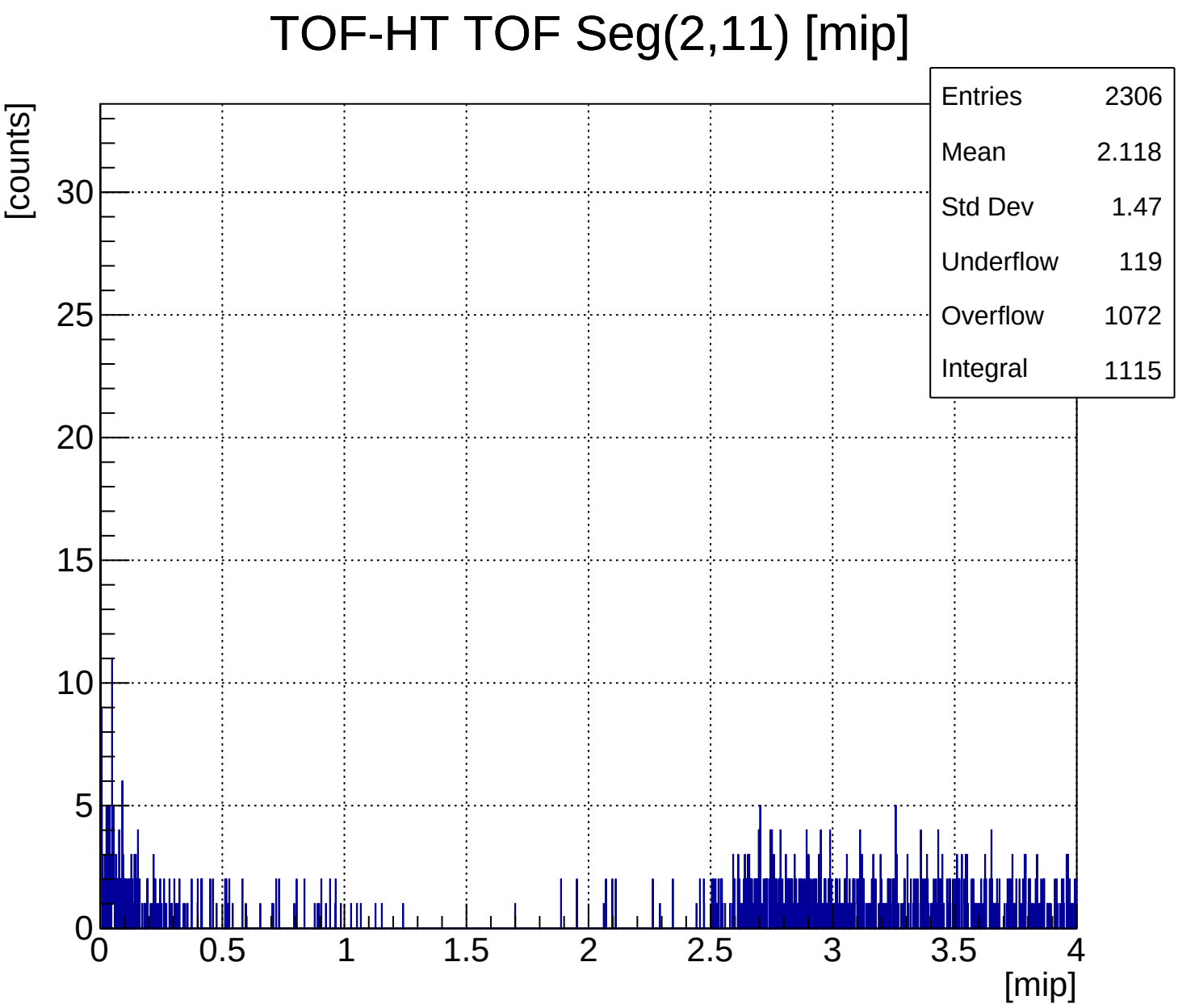

TOF-HTADC-Pede TOF Seg(17) [ch]
Entries 13668
Mean 2247
Std Dev 1199
Underflow 191
Overflow 146
Integral 1.333e+04
[counts]
0
10
20
30
40
50
60
70
80
90
0
500
1000
1500
2000
2500
3000
3500
4000
[ch]

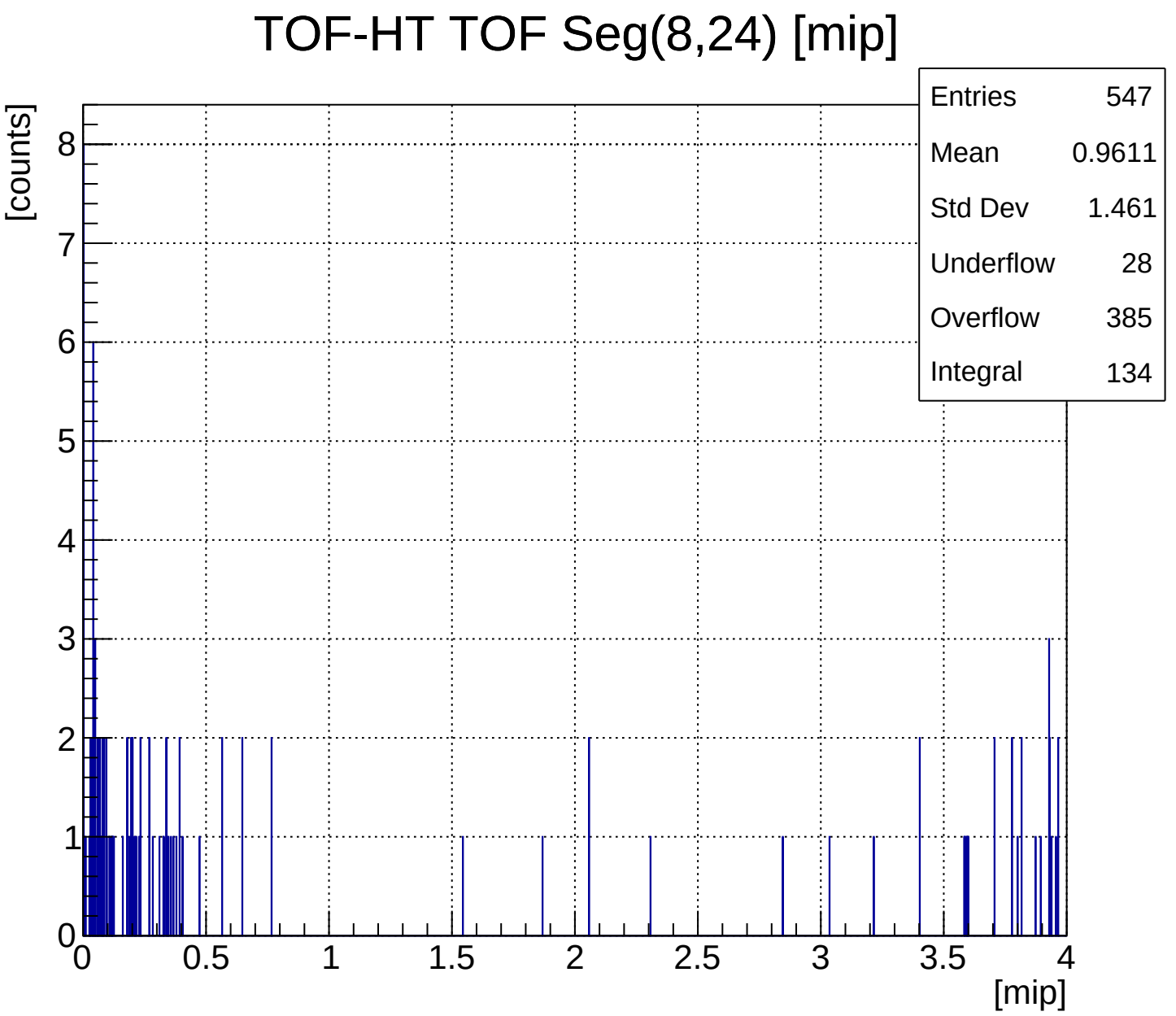

TOF-HT TOF Seg(1,20) [mip]
Entries 2042
Mean 1.97
Std Dev 1.328
Underflow 96
Overflow 576
Integral 1370
[counts]
30
25
20
15
10
5
0
0
0.5
1
1.5
2
2.5
3
3.5
4
[mip]

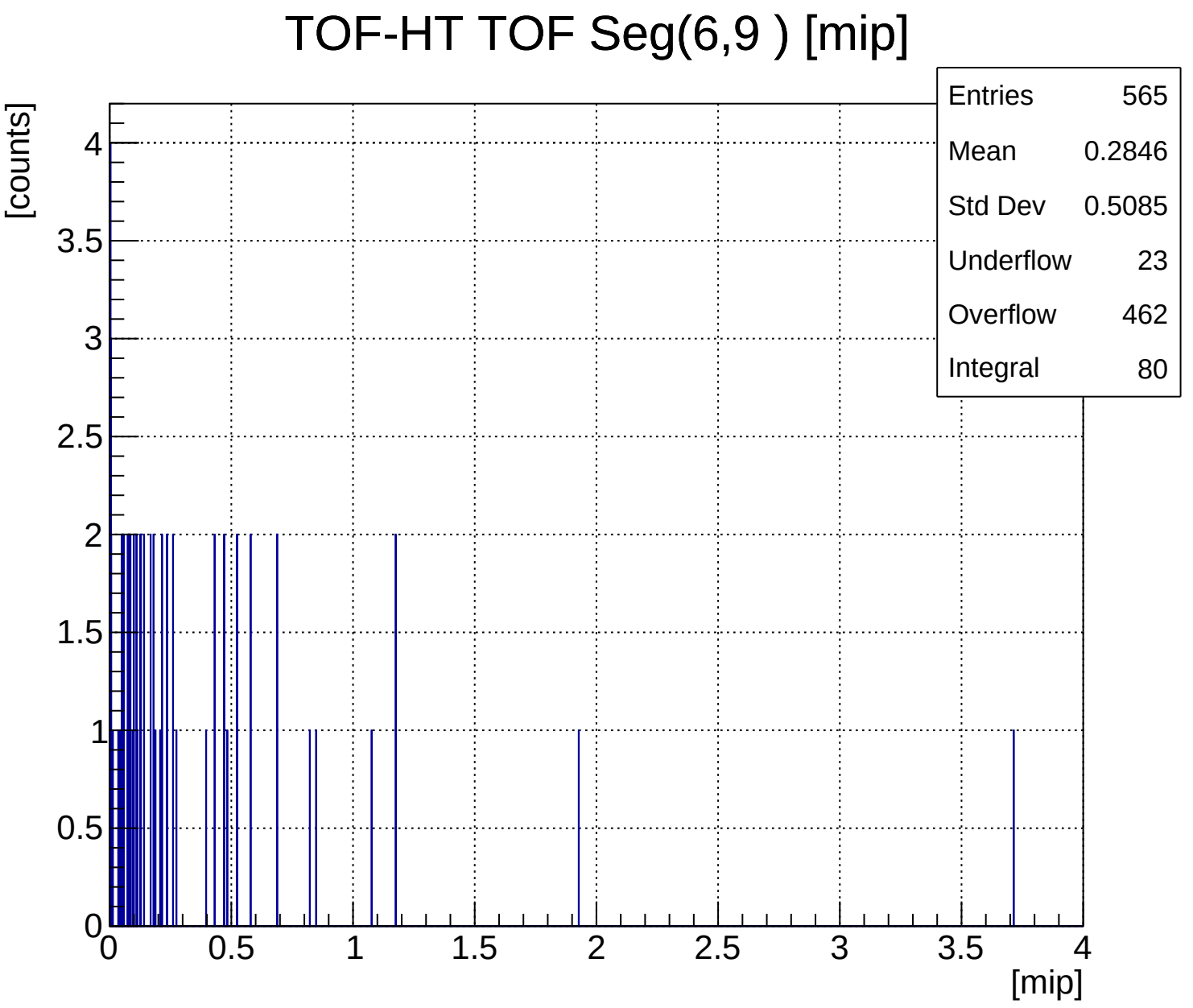

TOF-HT TOF Seg(5,22) [mip]
Entries 1933
Mean 2.198
Std Dev 1.24
Underflow 78
Overflow 436
Integral 1419
[counts]
0
2
4
6
8
10
12
14
16
18
20
22
0
0.5
1
1.5
2
2.5
3
3.5
4
[mip]

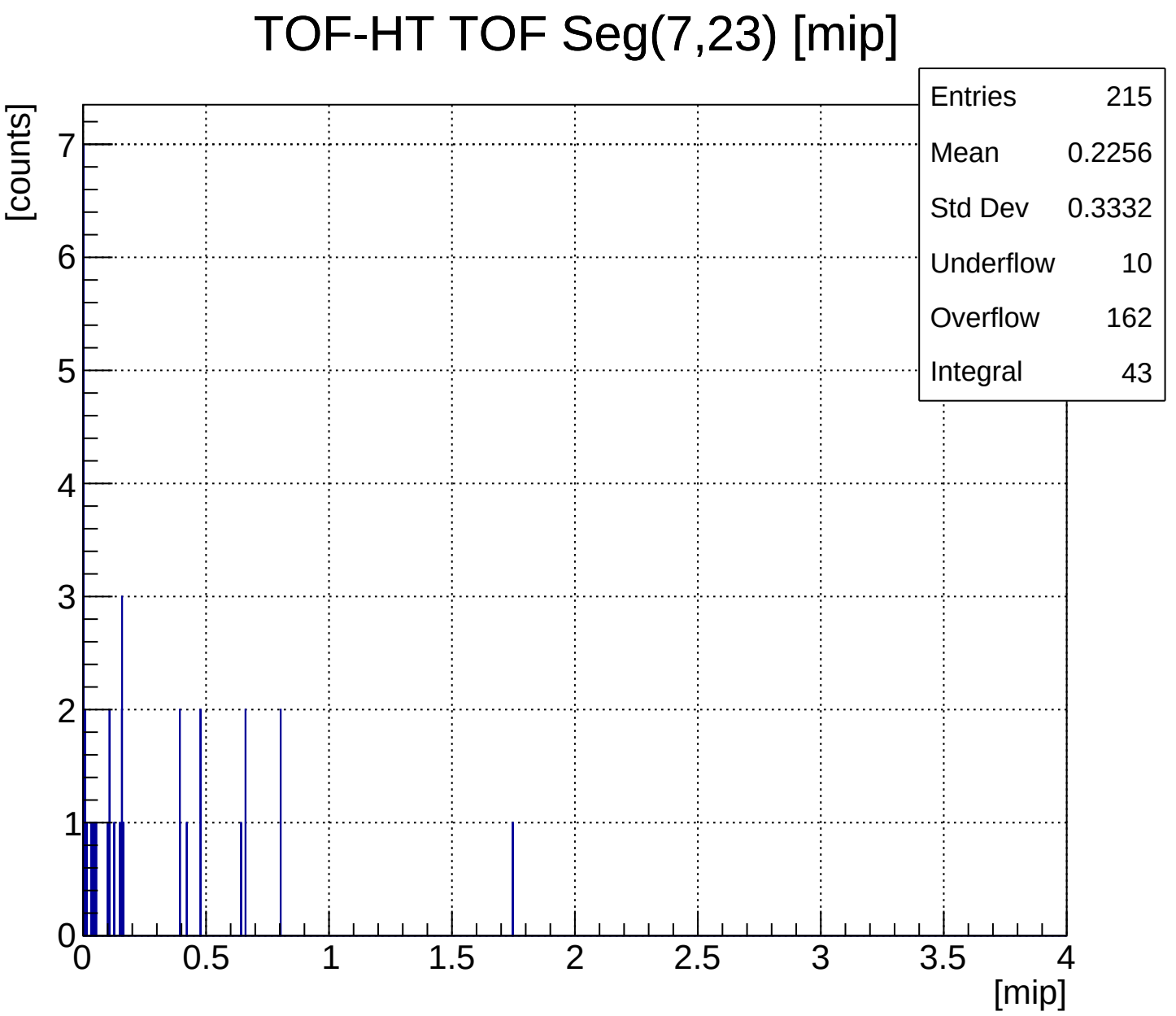

TOF-HT TOF Seg(18) [mip]
Entries 3981
Mean 2.283
Std Dev 1.374
Underflow 134
Overflow 215
Integral 3632
[counts]
50
40
30
20
10
0
0
0.5
1
1.5
2
2.5
3
3.5
4
[mip]

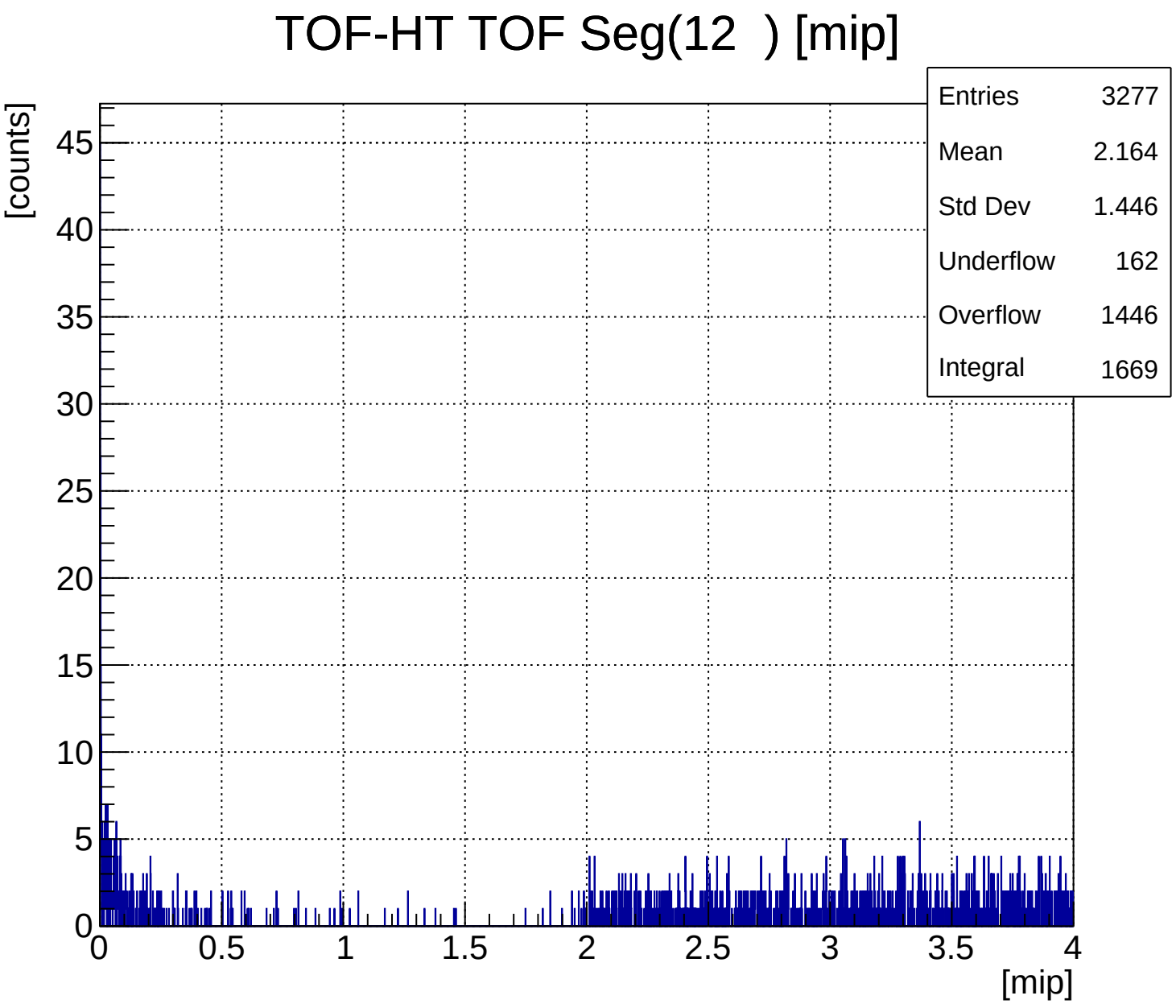

TOF-HT TOF Seg(4,10) [mip]
Entries 2756
Mean 2.081
Std Dev 1.312
Underflow 149
Overflow 891
Integral 1716
[counts]
0
5
10
15
20
25
30
35
40
0
0.5
1
1.5
2
2.5
3
3.5
4
[mip]

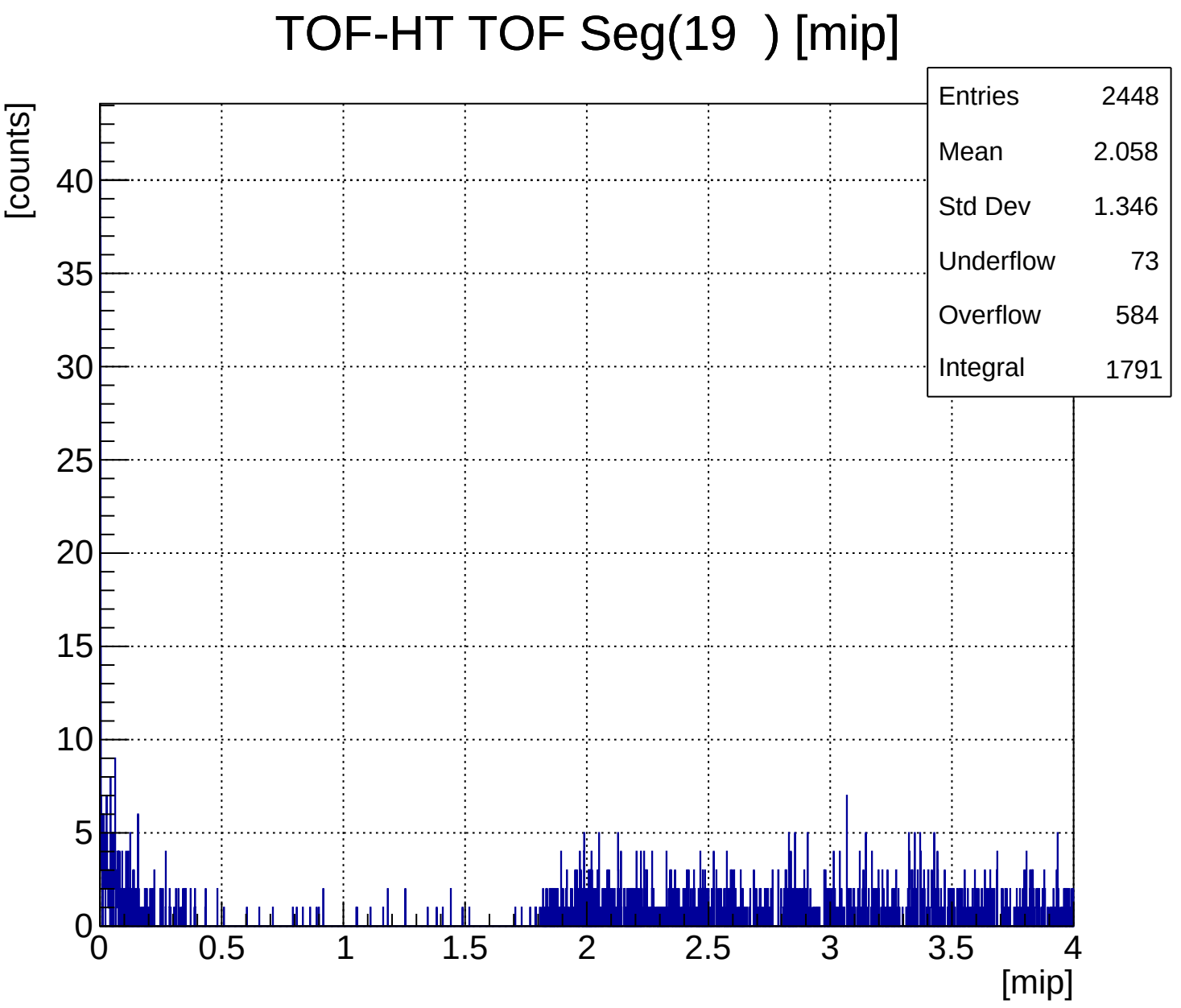

TOF-HT TOF Seg(2,11) [mip]
Entries 2306
Mean 2.118
Std Dev 1.47
Underflow 119
Overflow 1072
Integral 1115
[counts]
0
5
10
15
20
25
30
0
0.5
1
1.5
2
2.5
3
3.5
4
[mip]

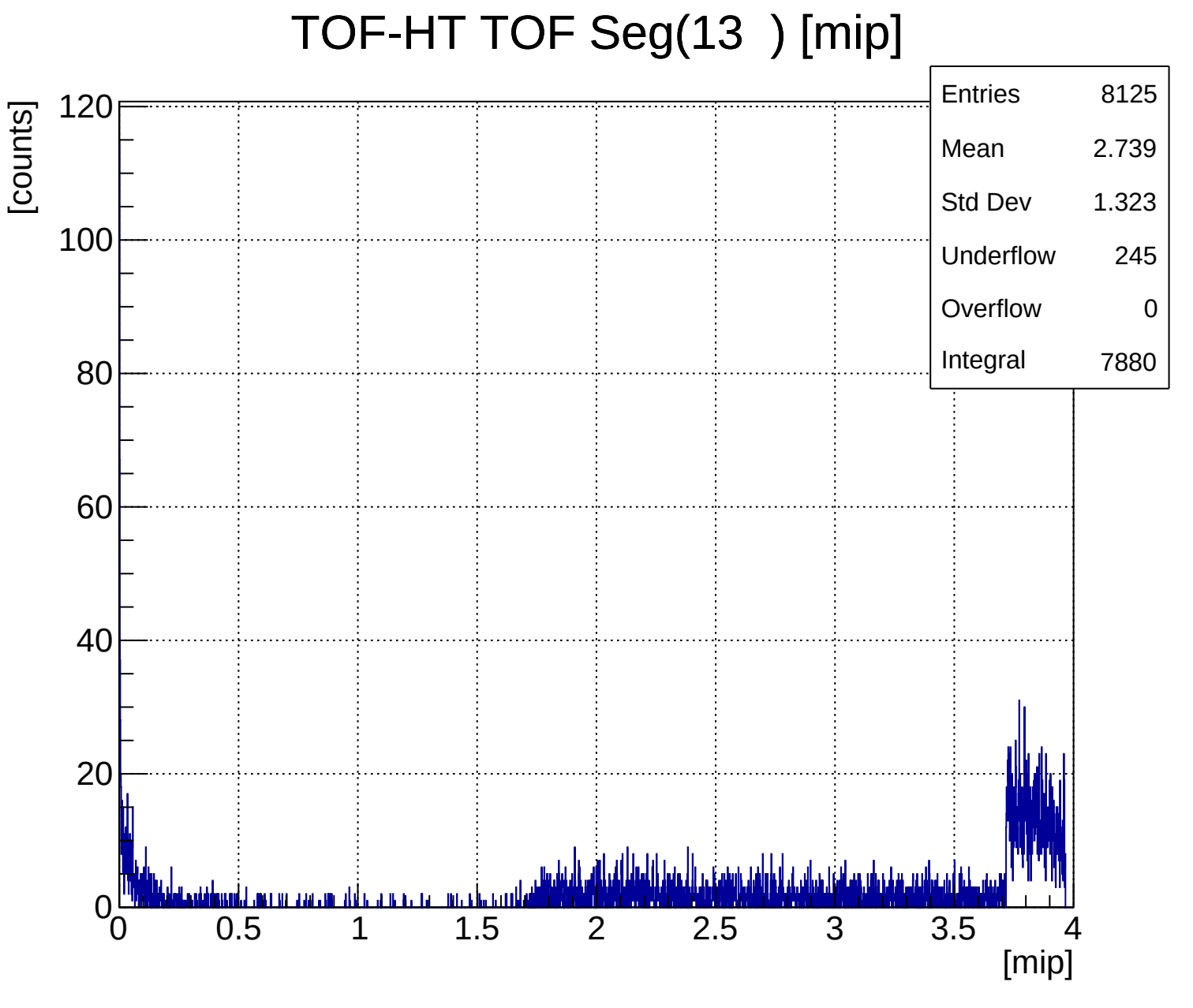

TOF-HT TOF Seg(8,24) [mip]
Entries 547
Mean 0.9611
Std Dev 1.461
Underflow 28
Overflow 385
Integral 134
[counts]
0
1
2
3
4
5
6
7
8
0
0.5
1
1.5
2
2.5
3
3.5
4
[mip]

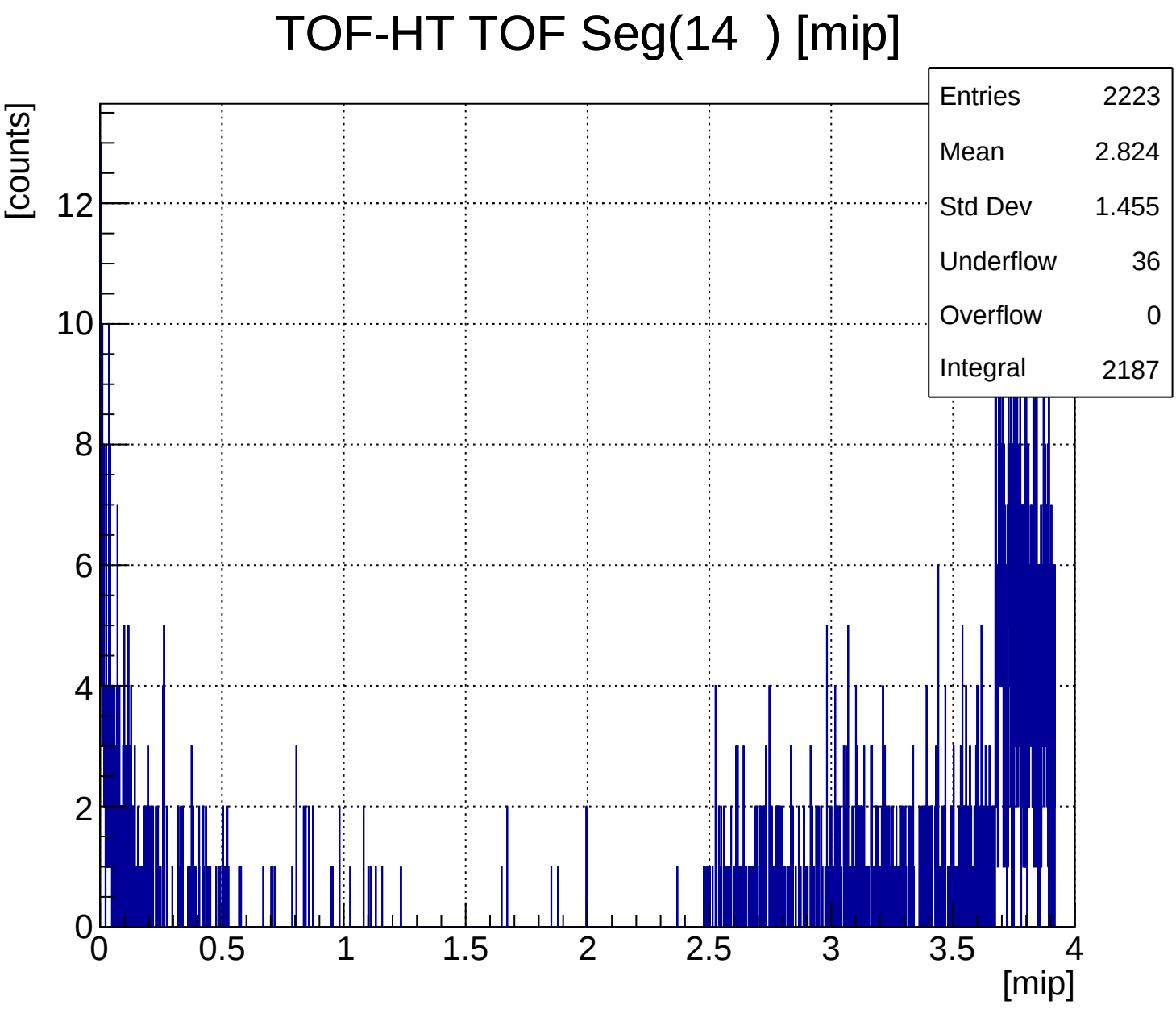

TOF-HT TOF Seg(6,9) [mip]
Entries 565
Mean 0.2846
Std Dev 0.5085
Underflow 23
Overflow 462
Integral 80
[counts]
[mip]
0
0.5
1
1.5
2
2.5
3
3.5
4

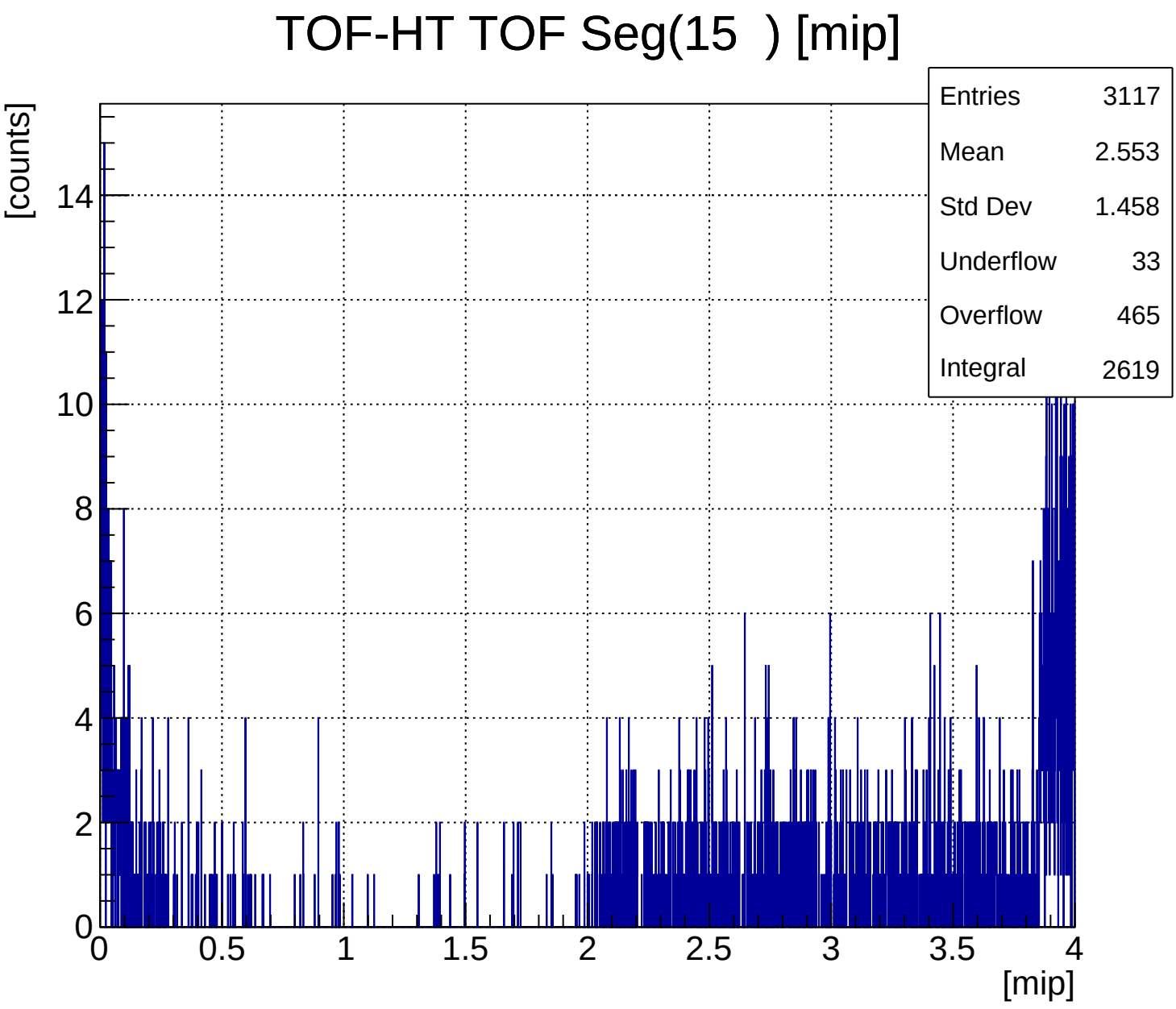

TOF-HT TOF Seg(7,23) [mip]
Entries 215
Mean 0.2256
Std Dev 0.3332
Underflow 10
Overflow 162
Integral 43
[counts]
0
1
2
3
4
5
6
7
0
0.5
1
1.5
2
2.5
3
3.5
4
[mip]

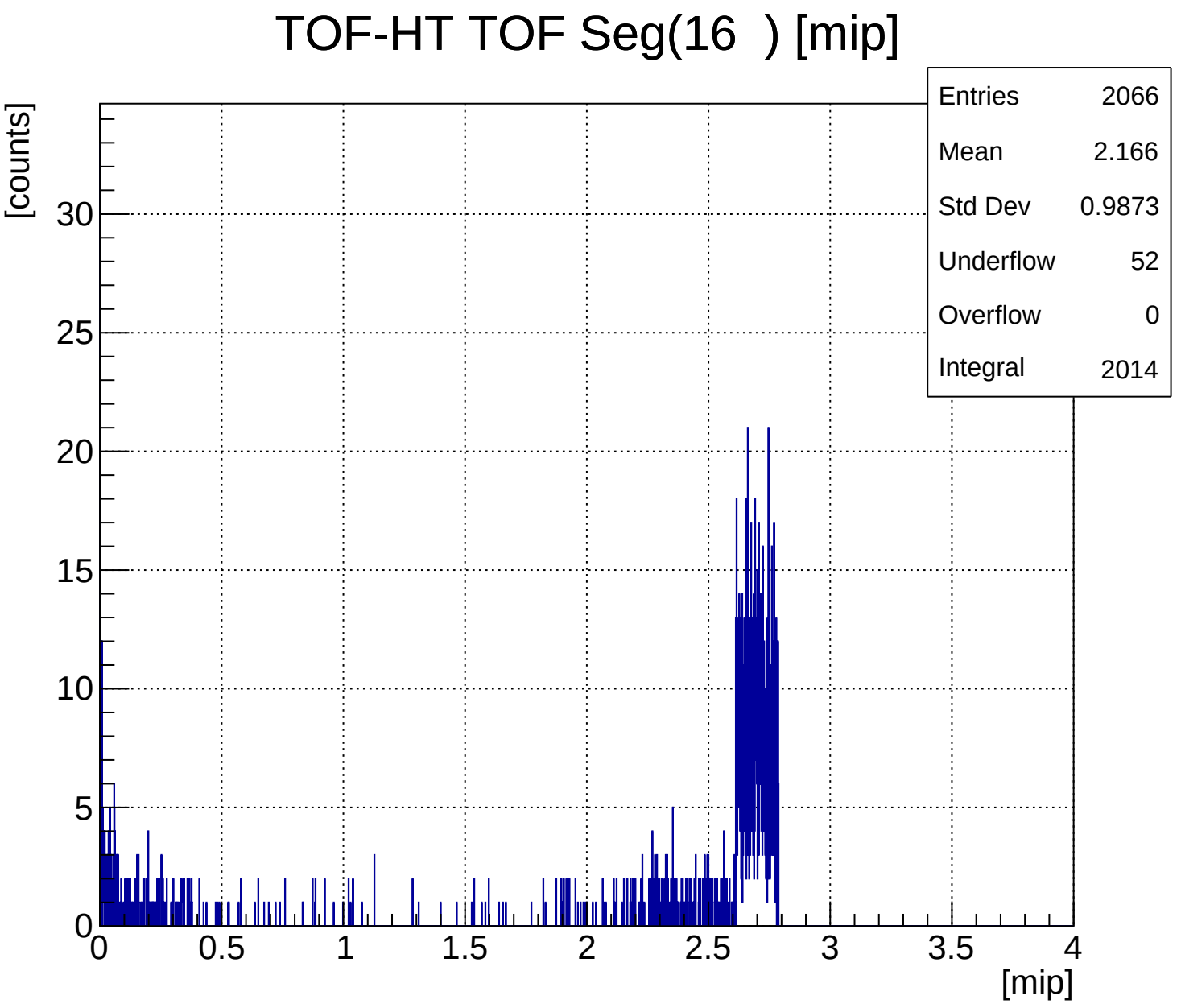

TOF-HT TOF Seg(12) [mip]
Entries 3277
Mean 2.164
Std Dev 1.446
Underflow 162
Overflow 1446
Integral 1669
[counts]
0
5
10
15
20
25
30
35
40
45
0
0.5
1
1.5
2
2.5
3
3.5
4
[mip]

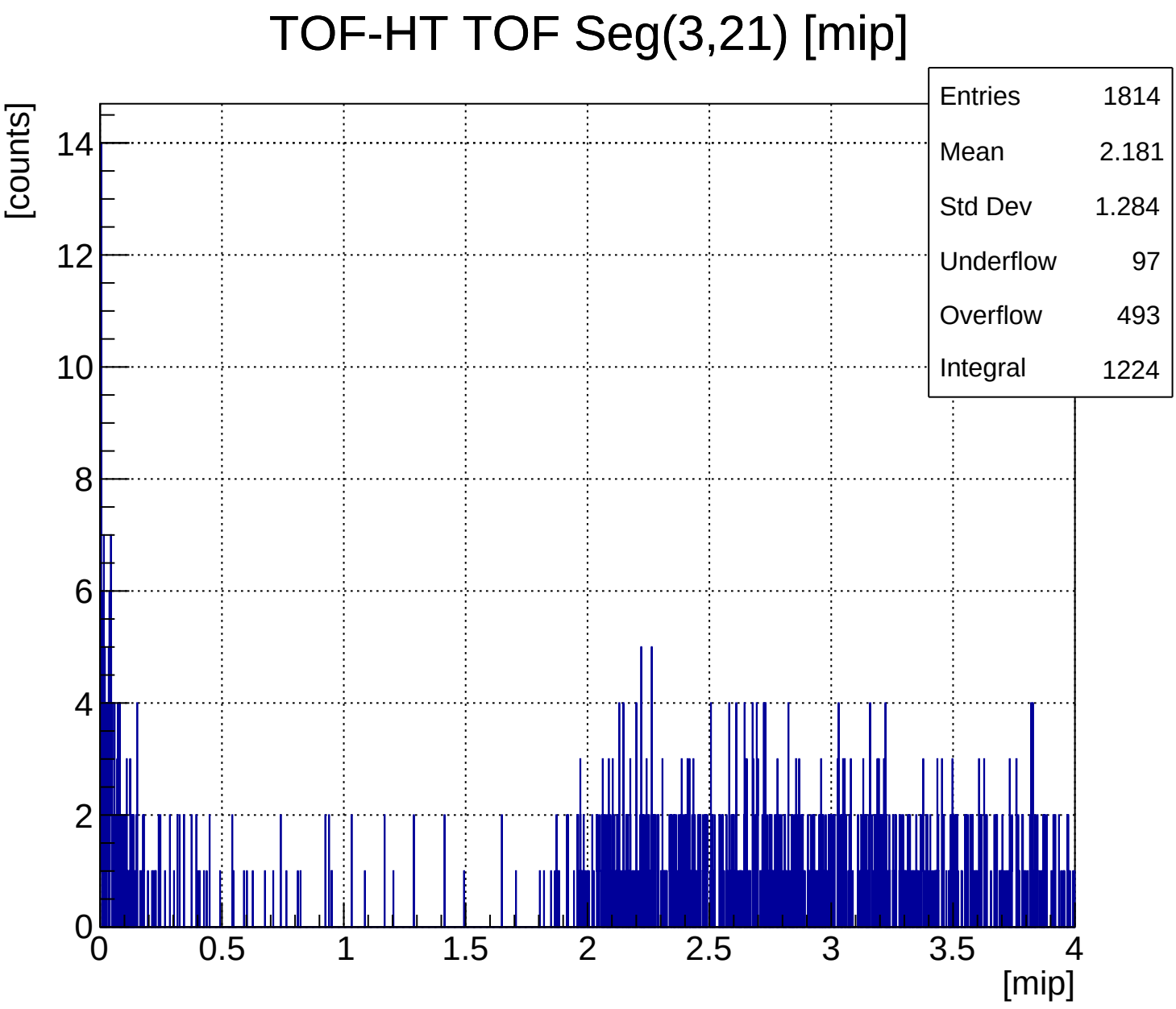

TOF-HT TOF Seg(19) [mip]
Entries 2448
Mean 2.058
Std Dev 1.346
Underflow 73
Overflow 584
Integral 1791
[counts]
0
5
10
15
20
25
30
35
40
0
0.5
1
1.5
2
2.5
3
3.5
4
[mip]

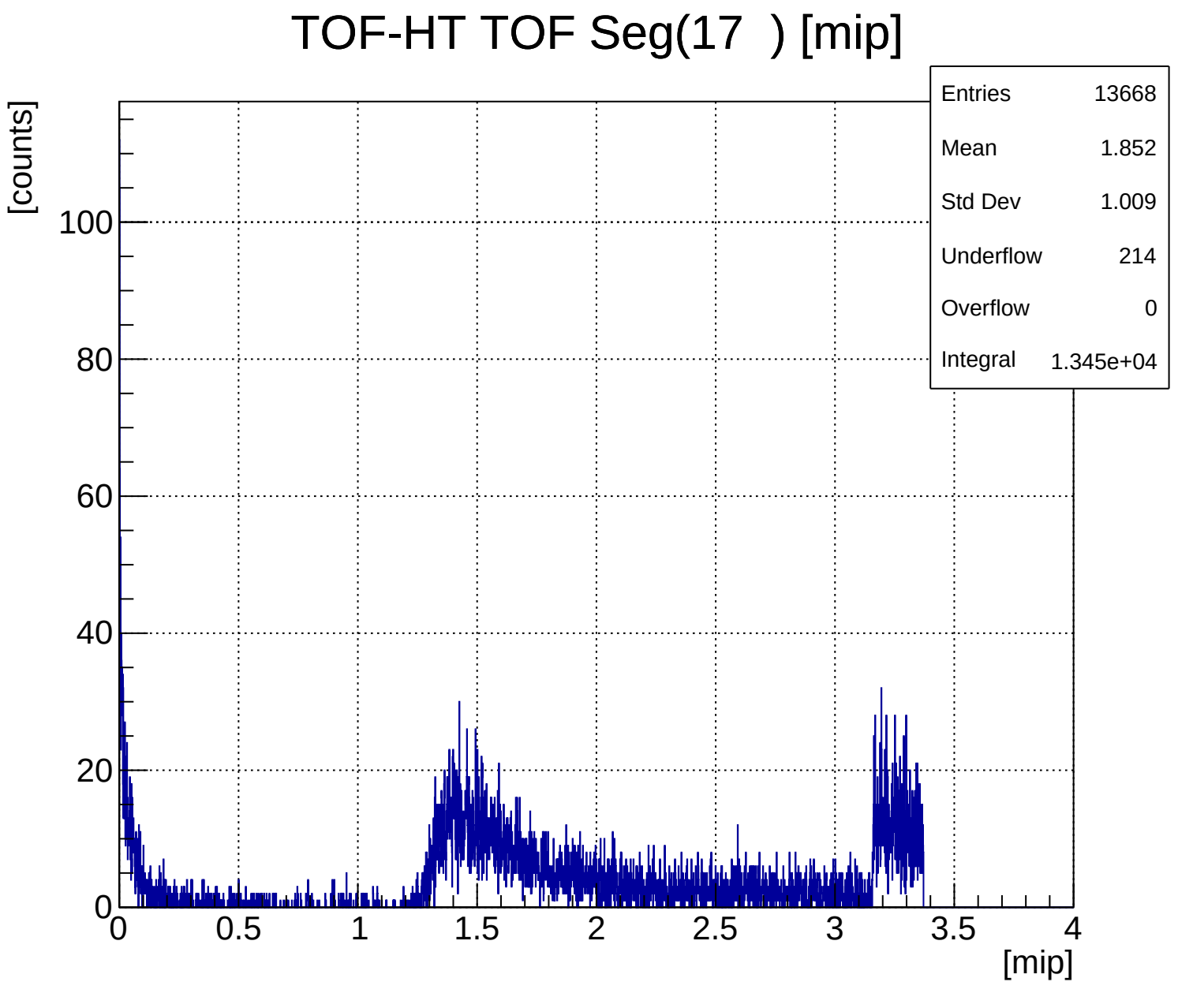

TOF-HT TOF Seg(13) [mip]
Entries 8125
Mean 2.739
Std Dev 1.323
Underflow 245
Overflow 0
Integral 7880
[counts]
120
100
80
60
40
20
0
0
0.5
1
1.5
2
2.5
3
3.5
4
[mip]


TOF-HT TOF Seg(14) [mip]
Entries 2223
Mean 2.824
Std Dev 1.455
Underflow 36
Overflow 0
Integral 2187
[counts]
0
2
4
6
8
10
12
0
0.5
1
1.5
2
2.5
3
3.5
4
[mip]


TOF-HT TOF Seg(15) [mip]
Entries 3117
Mean 2.553
Std Dev 1.458
Underflow 33
Overflow 465
Integral 2619
[counts]
0
2
4
6
8
10
12
14
0
0.5
1
1.5
2
2.5
3
3.5
4
[mip]


TOF-HT TOF Seg(16) [mip]
Entries 2066
Mean 2.166
Std Dev 0.9873
Underflow 52
Overflow 0
Integral 2014
[counts]
0
5
10
15
20
25
30
0
0.5
1
1.5
2
2.5
3
3.5
4
[mip]


TOF-HT TOF Seg(3,21) [mip]
Entries 1814
Mean 2.181
Std Dev 1.284
Underflow 97
Overflow 493
Integral 1224
[counts]
0
2
4
6
8
10
12
14
0
0.5
1
1.5
2
2.5
3
3.5
4
[mip]


TOF-HT TOF Seg(17) [mip]
Entries 13668
Mean 1.852
Std Dev 1.009
Underflow 214
Overflow 0
Integral 1.345e+04
[counts]
[mip]
0
20
40
60
80
100
0
0.5
1
1.5
2
2.5
3
3.5
4