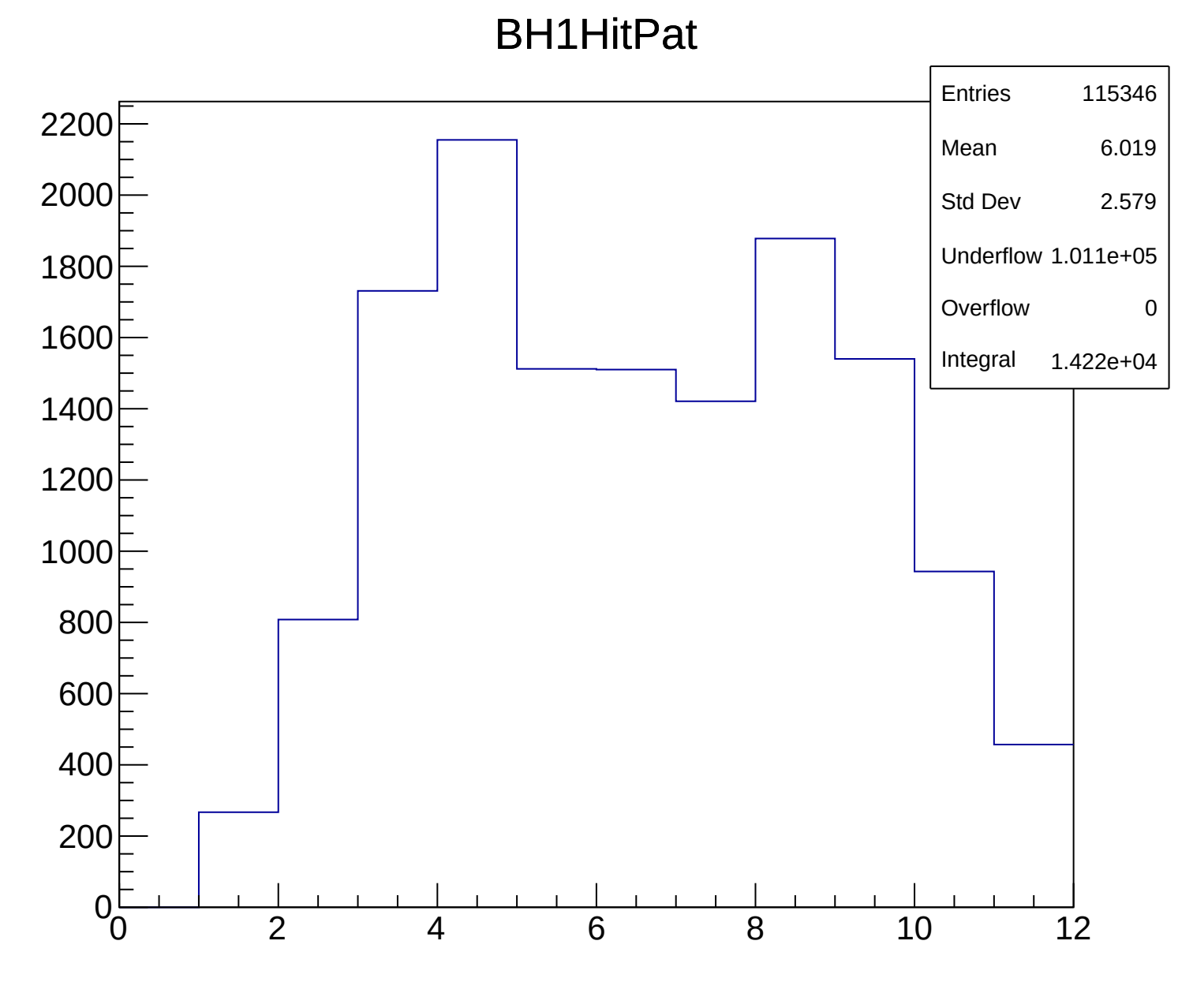
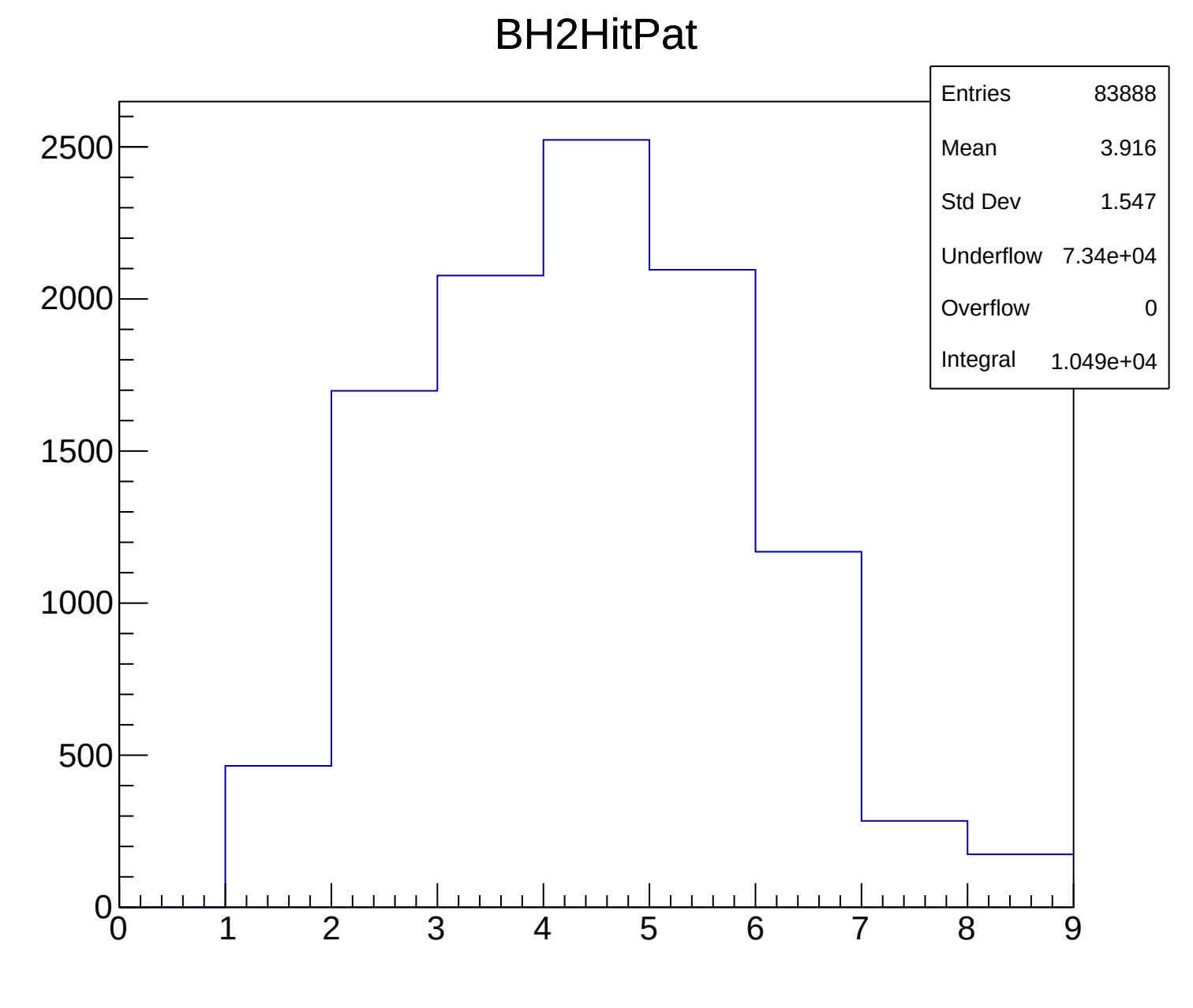
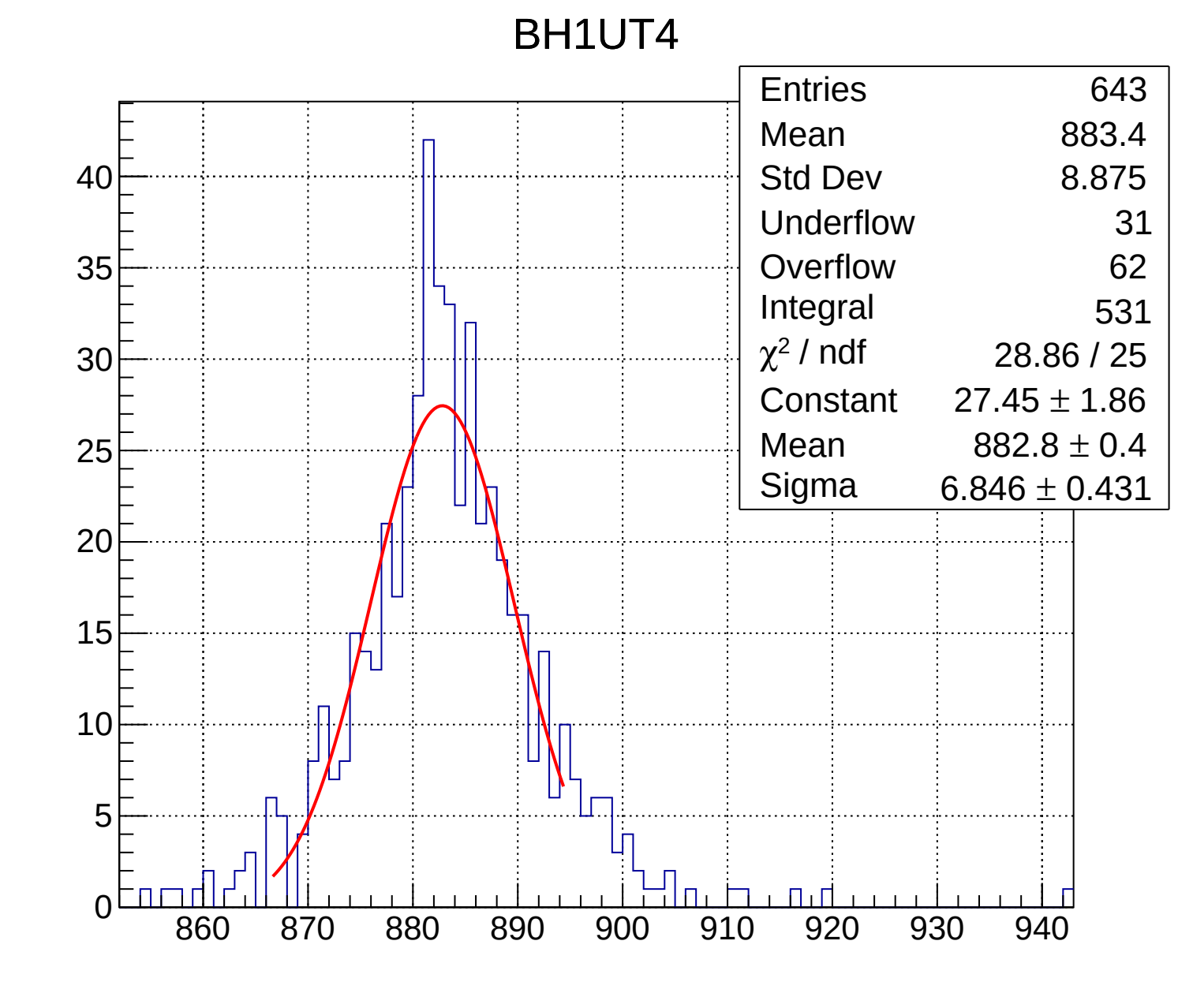
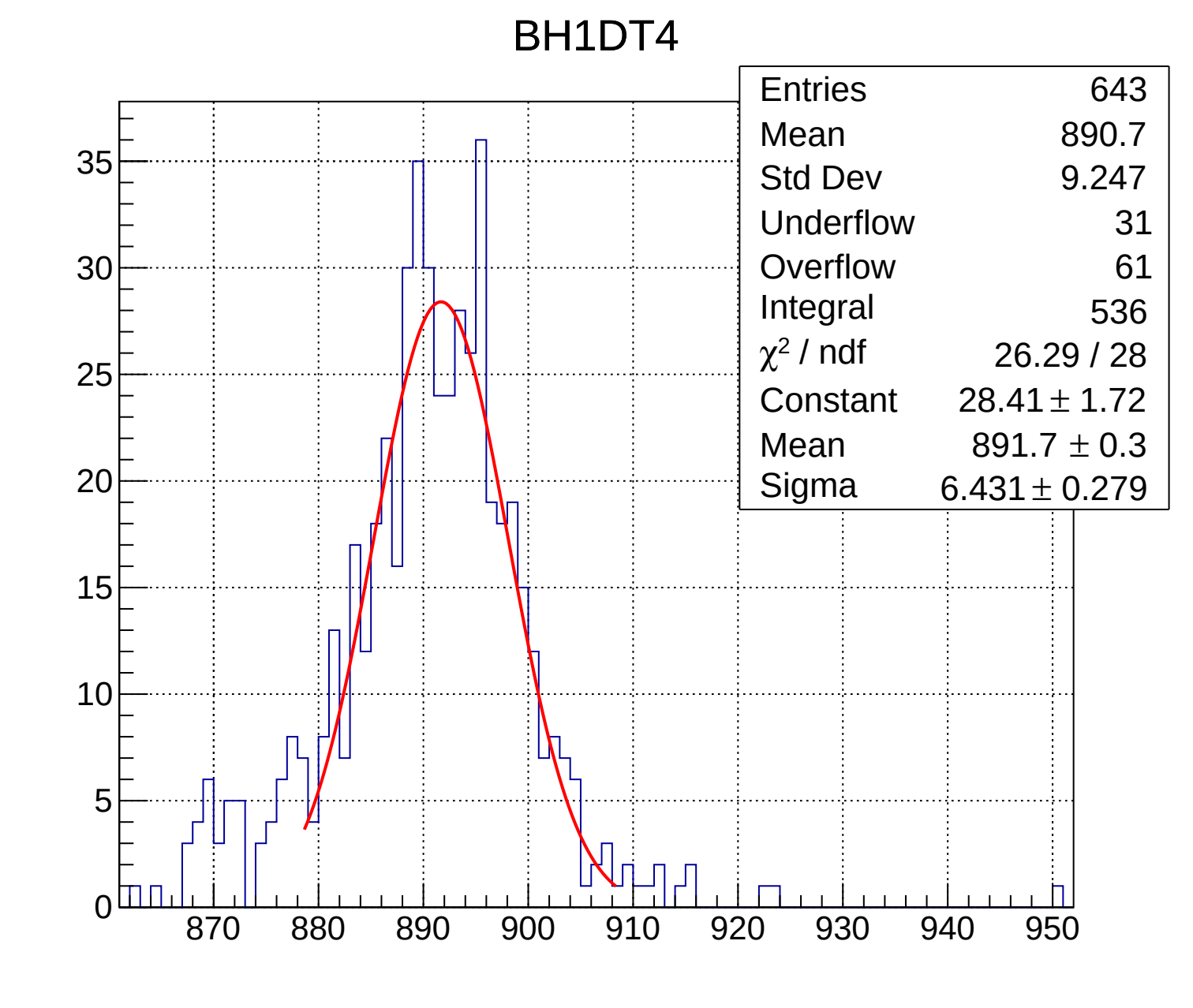
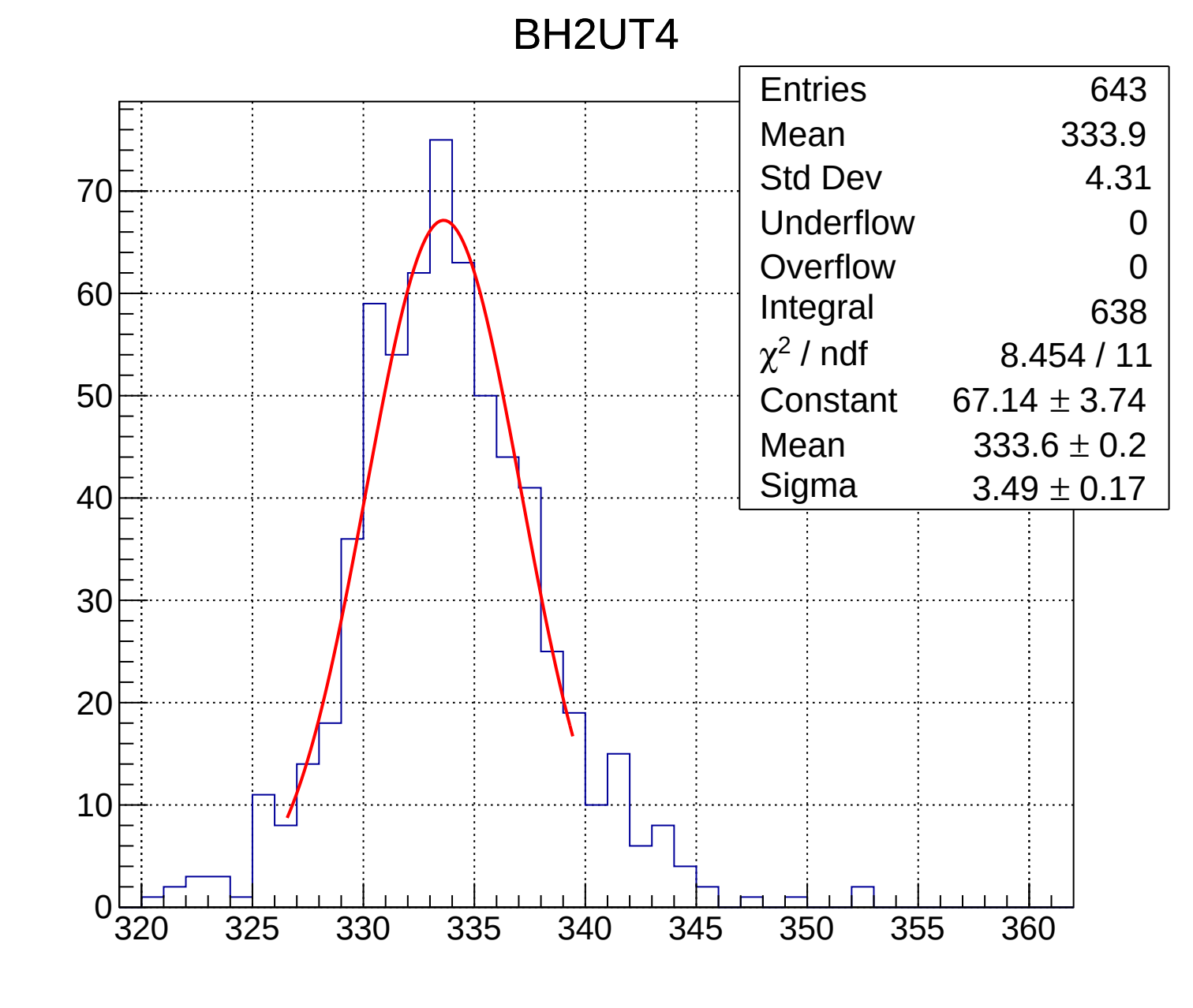
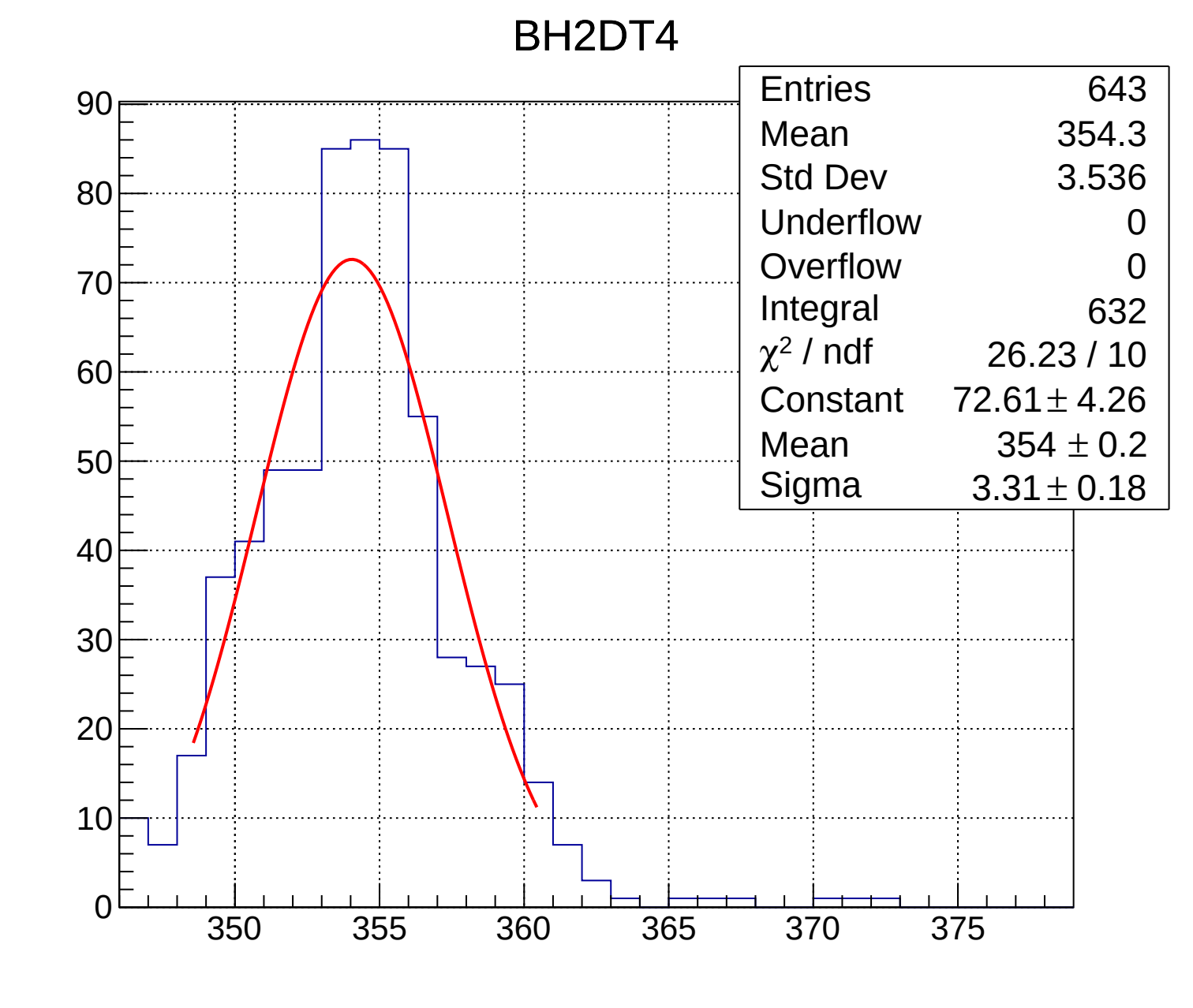

BH1HitPat
Entries 115346
Mean 6.019
Std Dev 2.579
Underflow 1.011e+05
Overflow 0
Integral 1.422e+04
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
0
2
4
6
8
10
12

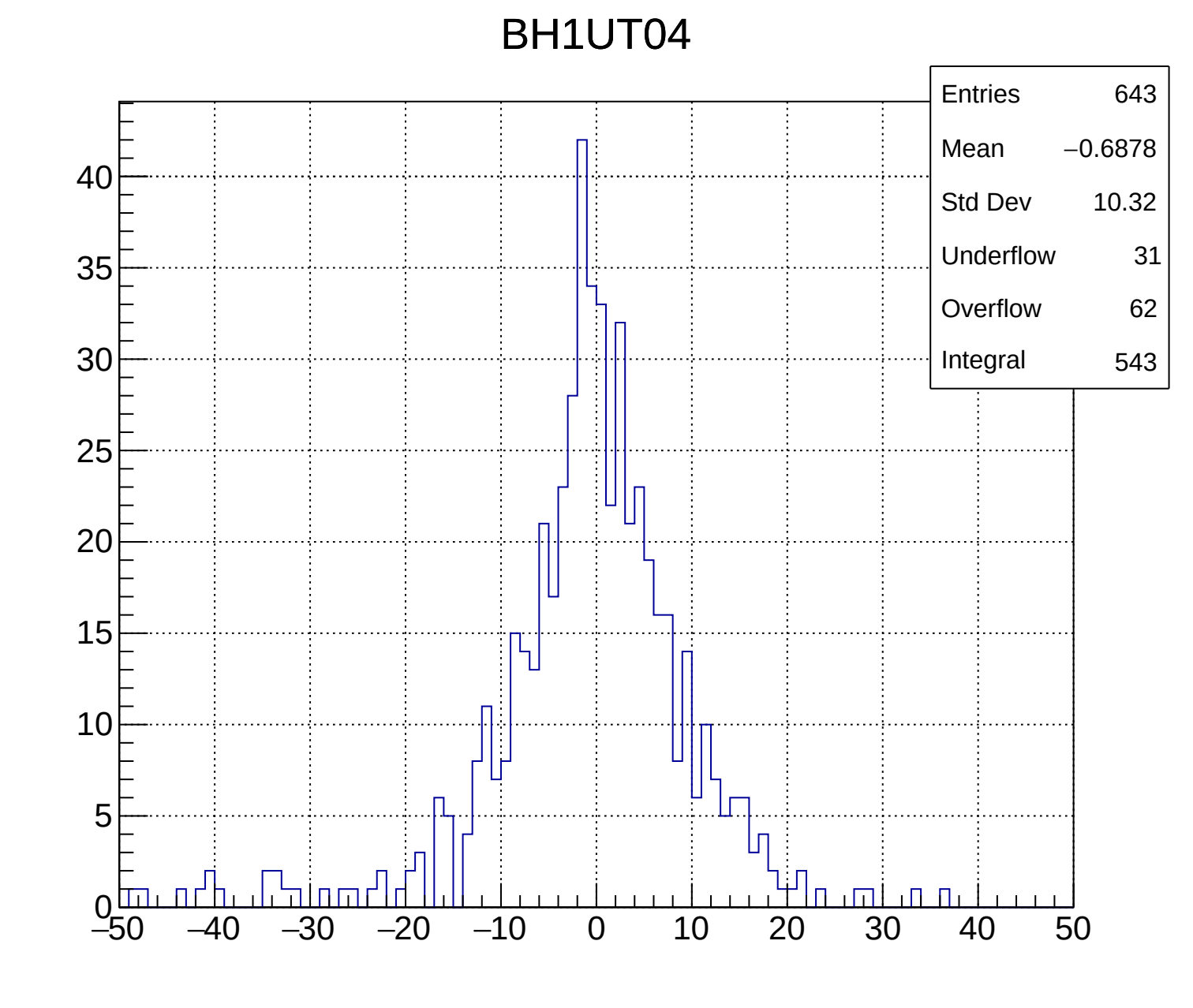

BH2HitPat
Entries 83888
Mean 3.916
Std Dev 1.547
Underflow 7.34e+04
Overflow 0
Integral 1.049e+04
2500
2000
1500
1000
500
0
0
1
2
3
4
5
6
7
8
9

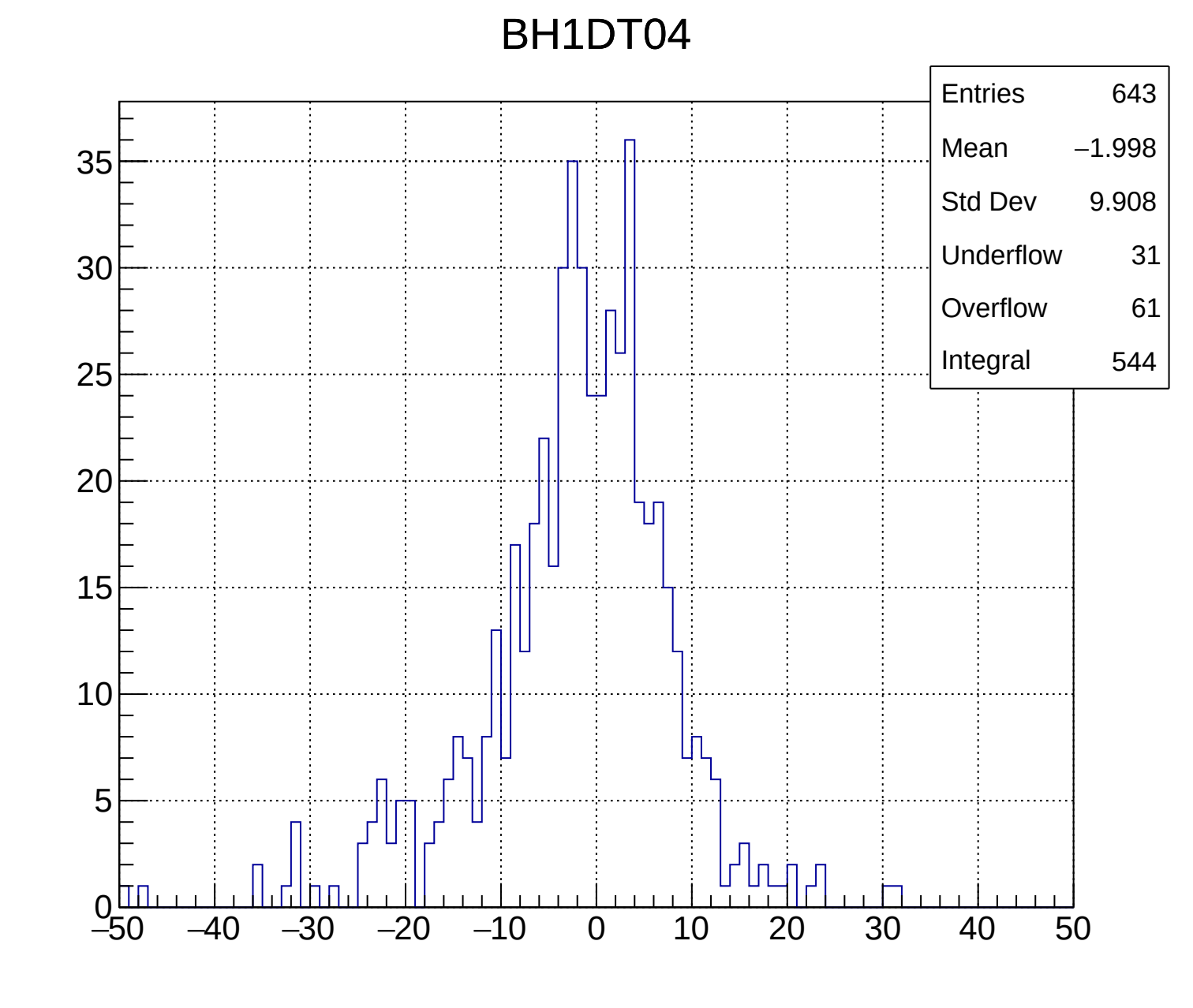

BH1UT4
Entries 643
Mean 883.4
Std Dev 8.875
Underflow 31
Overflow 62
Integral 531
χ² / ndf 28.86 / 25
Constant 27.45 ± 1.86
Mean 882.8 ± 0.4
Sigma 6.846 ± 0.431
0
5
10
15
20
25
30
35
40
860
870
880
890
900
910
920
930
940

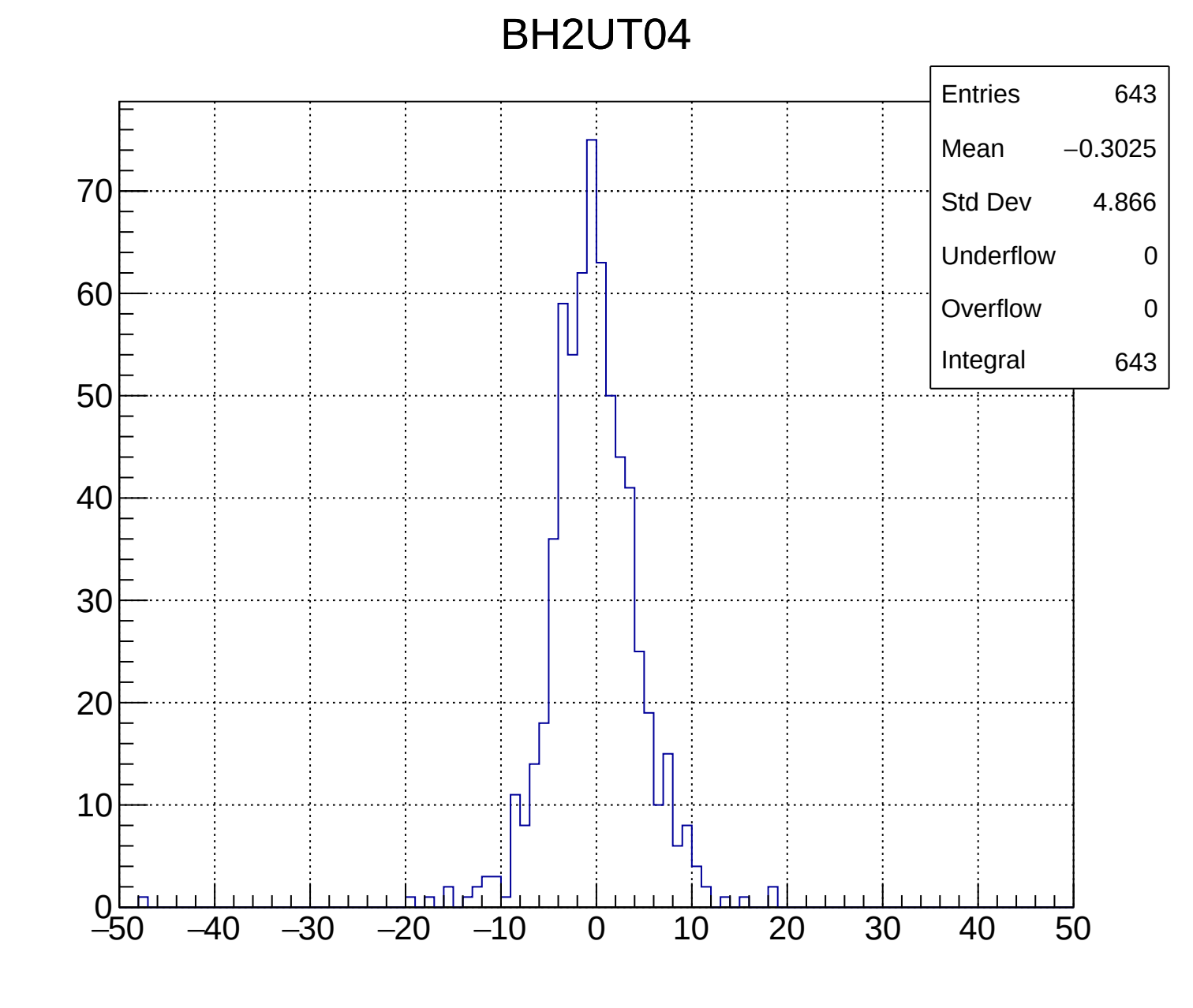

BH1DT4
Entries 643
Mean 890.7
Std Dev 9.247
Underflow 31
Overflow 61
Integral 536
χ² / ndf 26.29 / 28
Constant 28.41 ± 1.72
Mean 891.7 ± 0.3
Sigma 6.431 ± 0.279
0
5
10
15
20
25
30
35
870
880
890
900
910
920
930
940
950

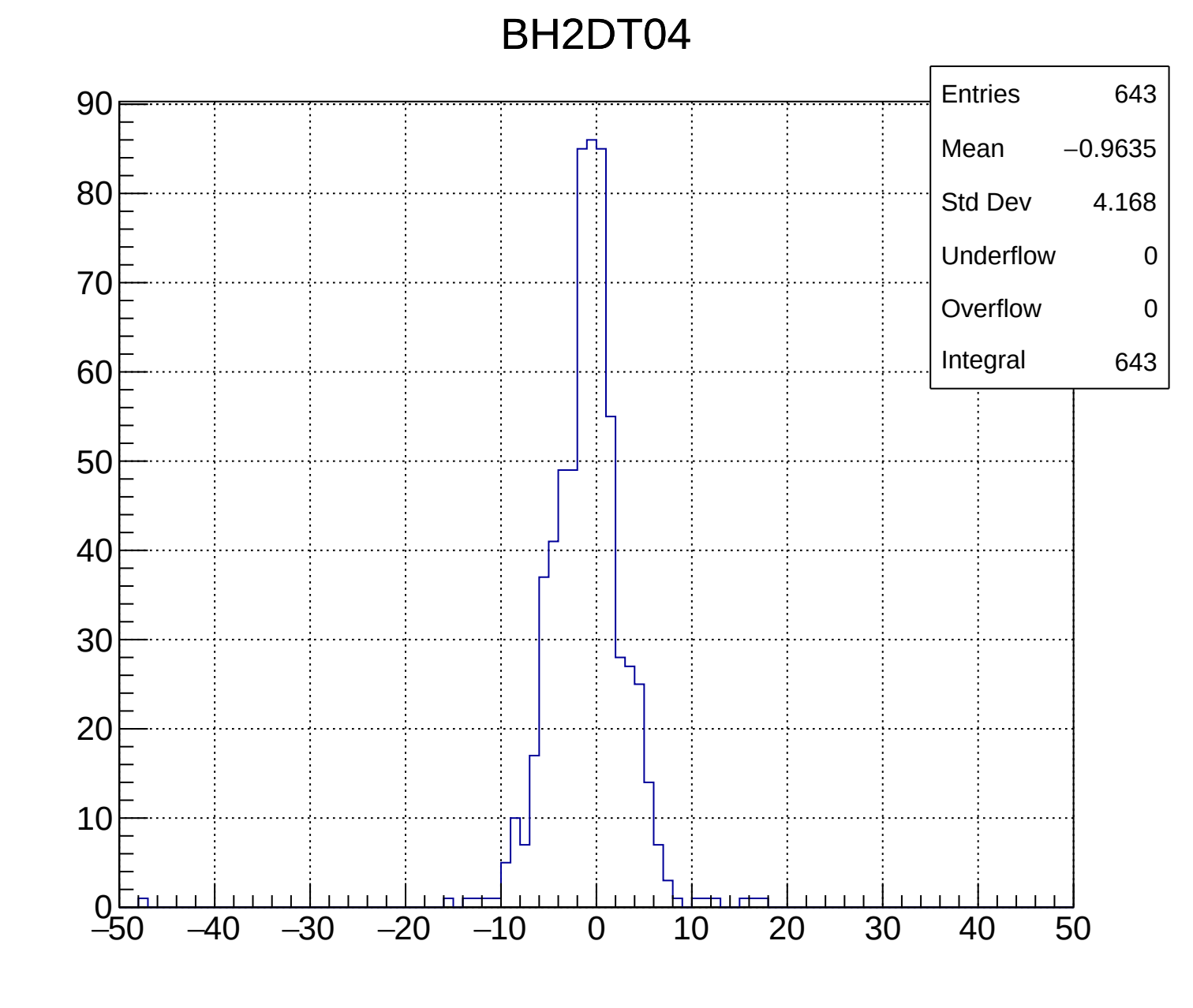

BH2UT4
Entries 643
Mean 333.9
Std Dev 4.31
Underflow 0
Overflow 0
Integral 638
χ2 / ndf 8.454 / 11
Constant 67.14 ± 3.74
Mean 333.6 ± 0.2
Sigma 3.49 ± 0.17
0
10
20
30
40
50
60
70
320
325
330
335
340
345
350
355
360

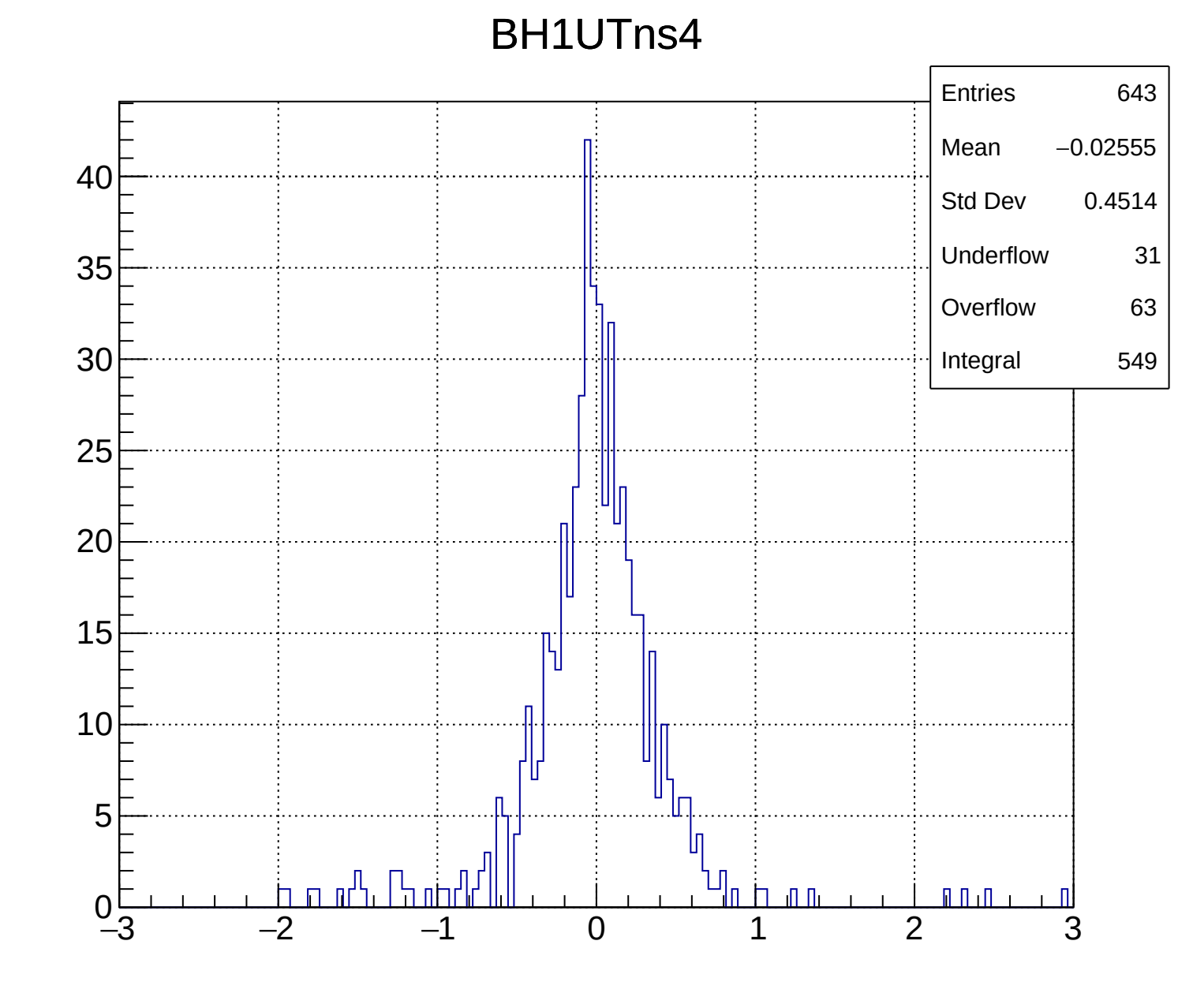

BH2DT4
Entries 643
Mean 354.3
Std Dev 3.536
Underflow 0
Overflow 0
Integral 632
χ² / ndf 26.23 / 10
Constant 72.61 ± 4.26
Mean 354 ± 0.2
Sigma 3.31 ± 0.18
90
80
70
60
50
40
30
20
10
0
350
355
360
365
370
375

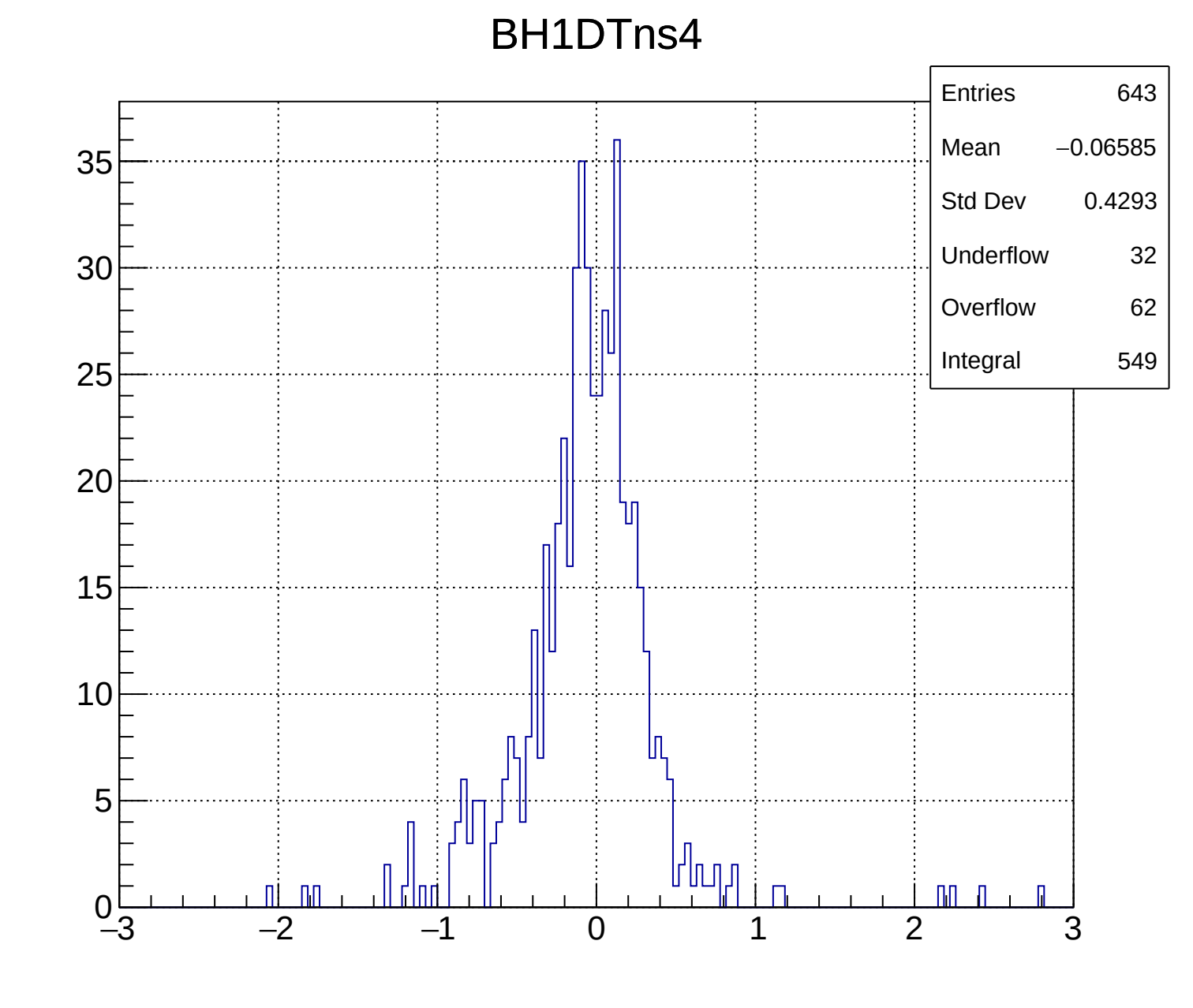

BH1UT04
Entries 643
Mean −0.6878
Std Dev 10.32
Underflow 31
Overflow 62
Integral 543
40
35
30
25
20
15
10
5
0
−50
−40
−30
−20
−10
0
10
20
30
40
50

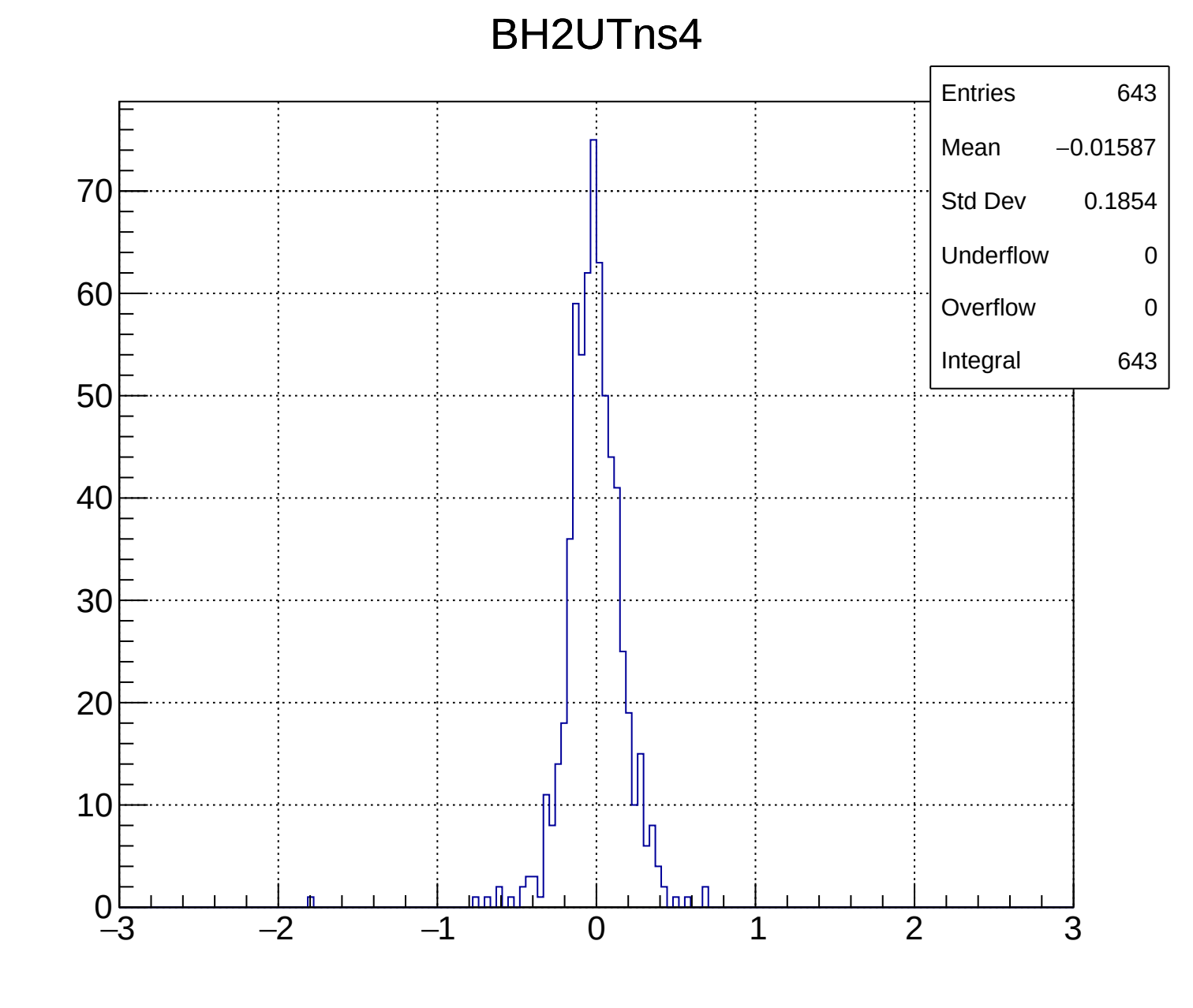

BH1DT04
Entries 643
Mean –1.998
Std Dev 9.908
Underflow 31
Overflow 61
Integral 544
35
30
25
20
15
10
5
0
–50
–40
–30
–20
–10
0
10
20
30
40
50

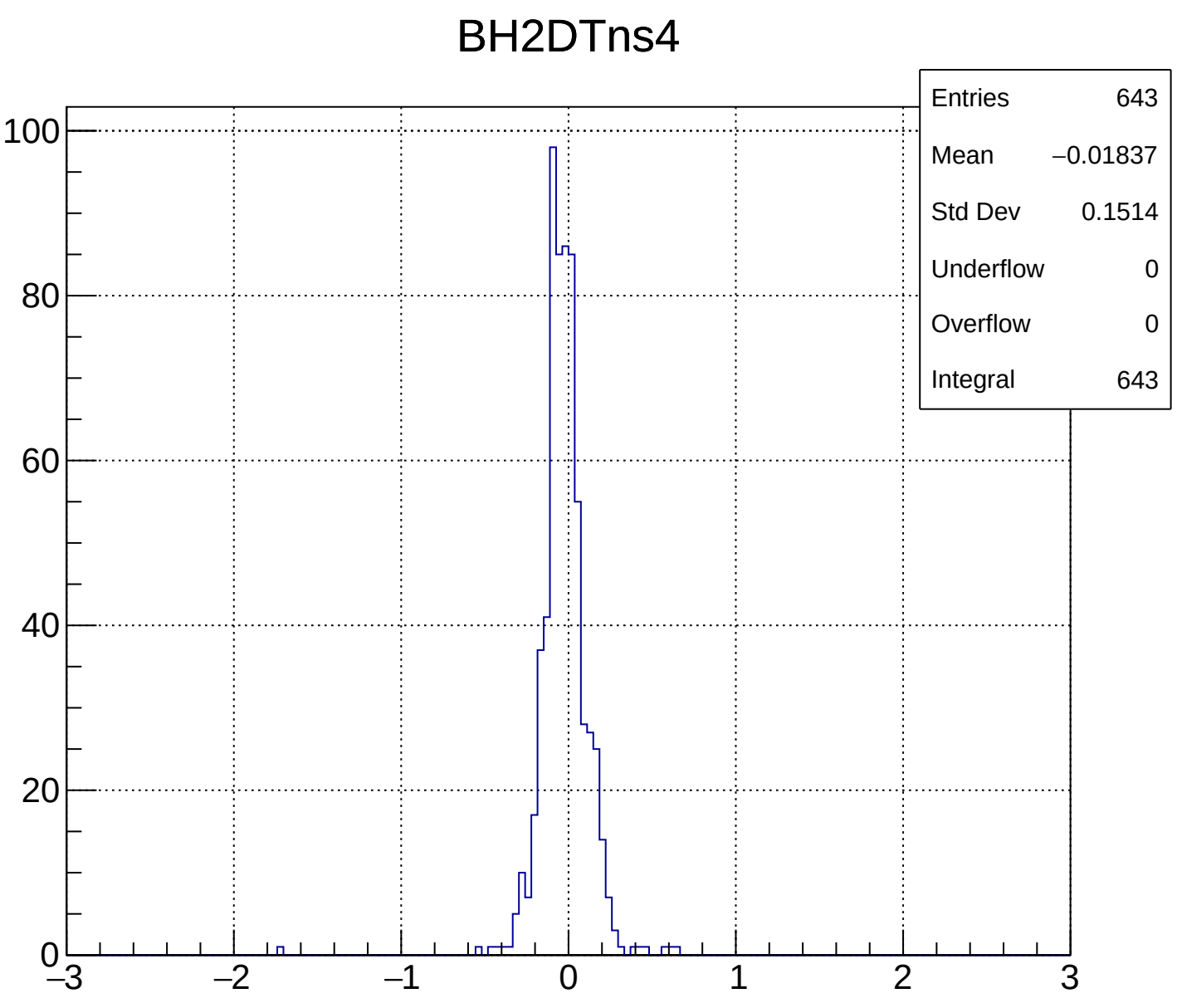

BH2UT04
Entries 643
Mean −0.3025
Std Dev 4.866
Underflow 0
Overflow 0
Integral 643
70
60
50
40
30
20
10
0
−50
−40
−30
−20
−10
0
10
20
30
40
50

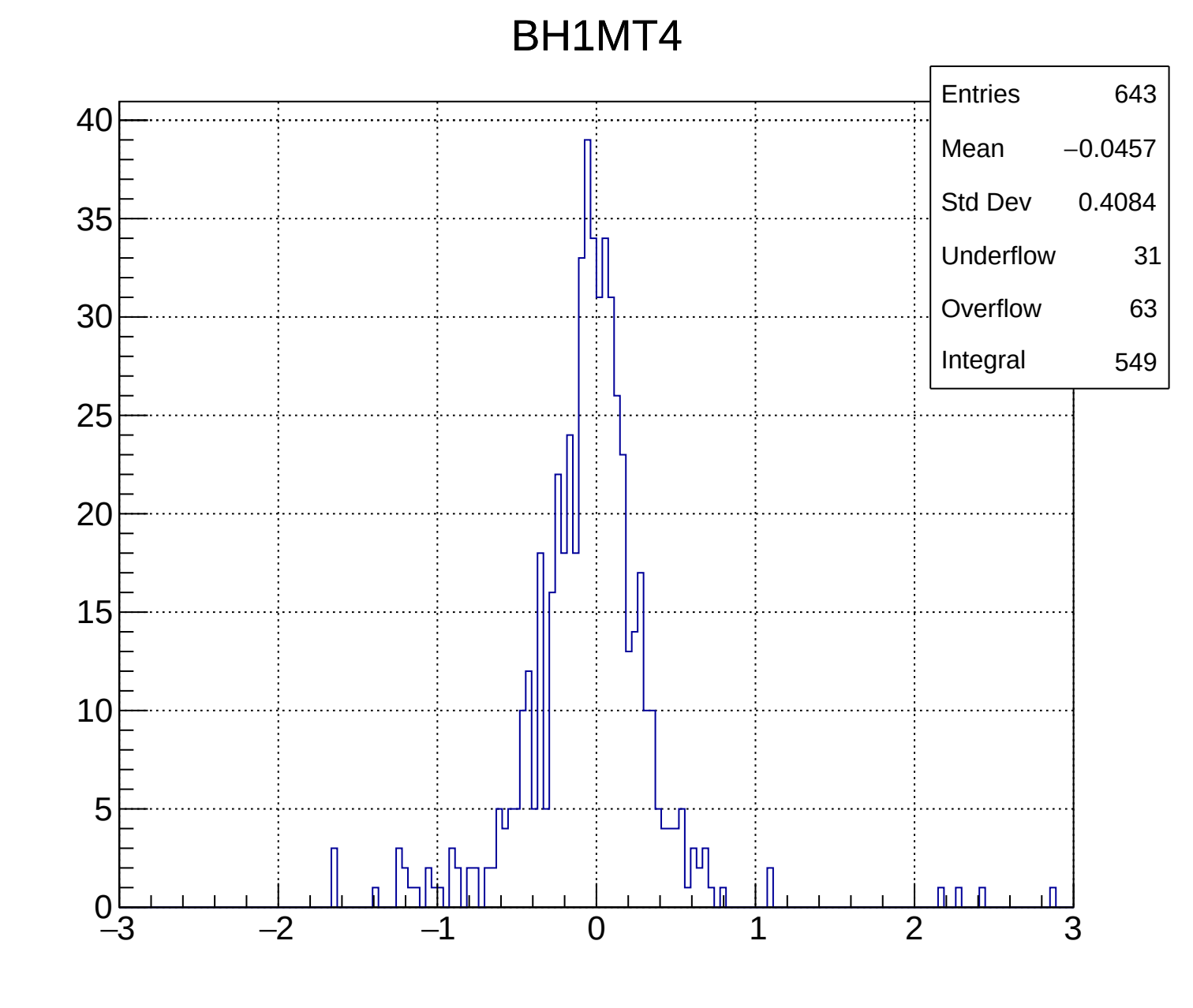

BH2DT04
Entries 643
Mean −0.9635
Std Dev 4.168
Underflow 0
Overflow 0
Integral 643
90
80
70
60
50
40
30
20
10
0
−50
−40
−30
−20
−10
0
10
20
30
40
50

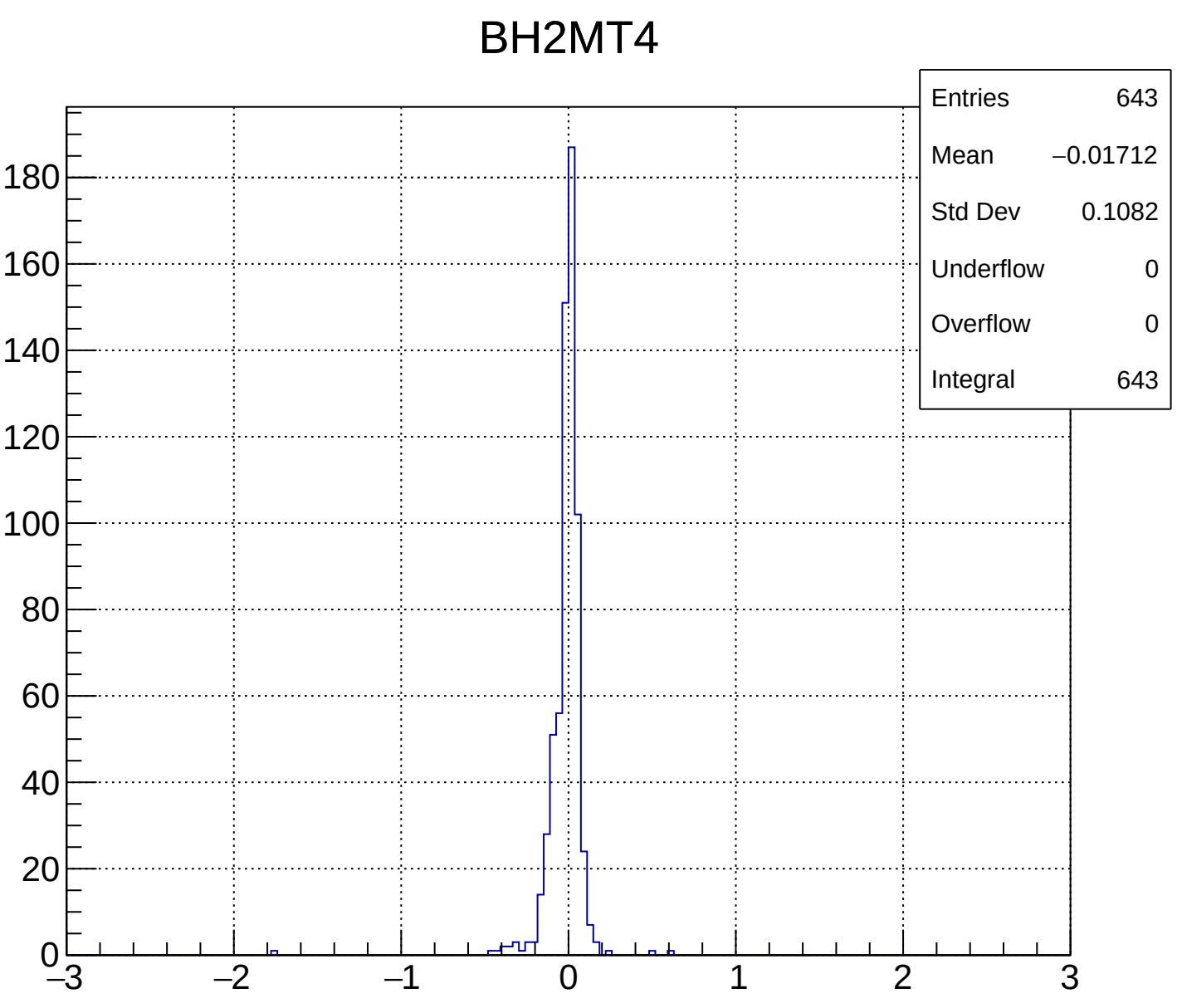

BH1UTns4
Entries 643
Mean −0.02555
Std Dev 0.4514
Underflow 31
Overflow 63
Integral 549
40
35
30
25
20
15
10
5
0
−3
−2
−1
0
1
2
3

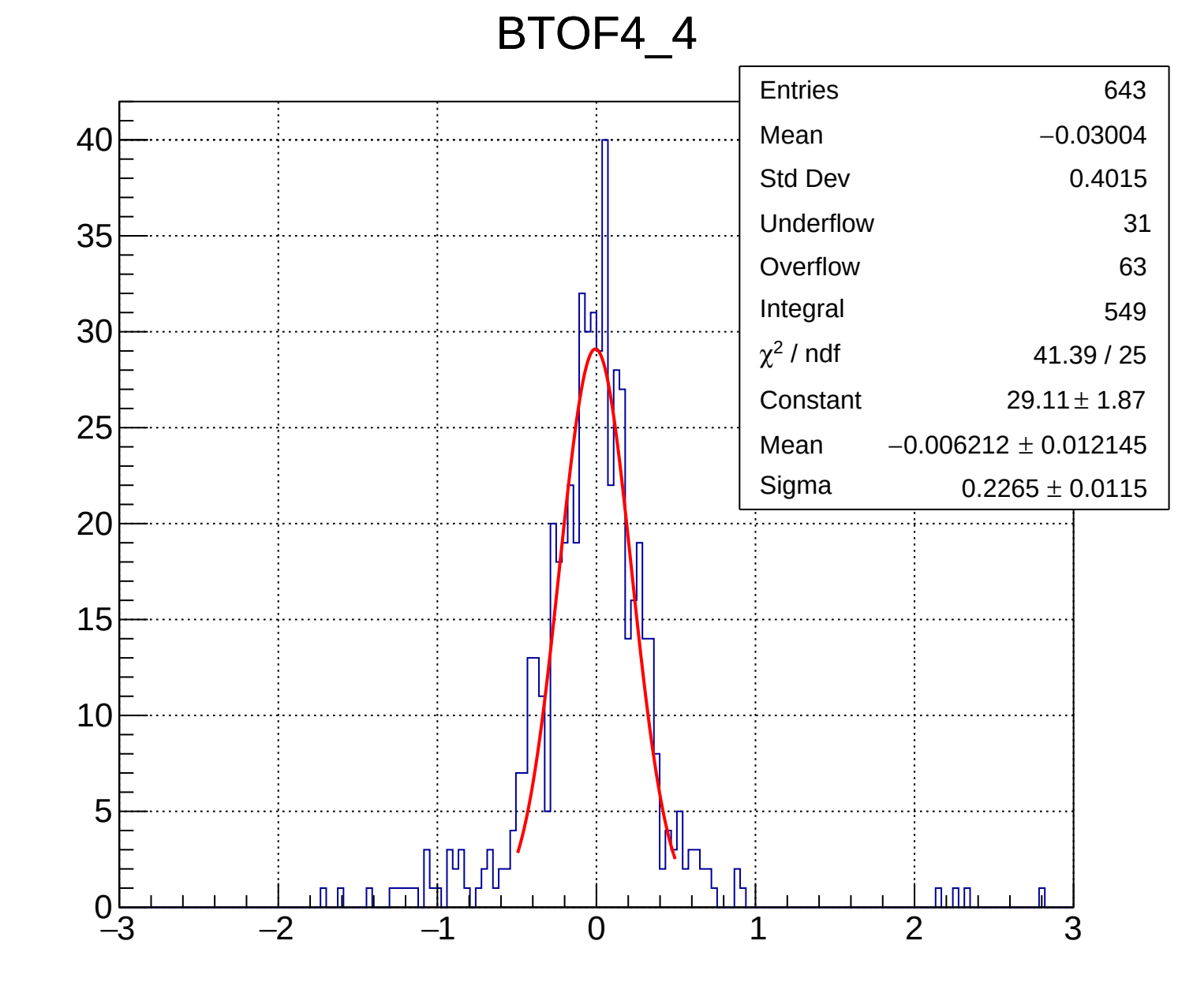

BH1DTns4
Entries 643
Mean −0.06585
Std Dev 0.4293
Underflow 32
Overflow 62
Integral 549
35
30
25
20
15
10
5
0
−3
−2
−1
0
1
2
3

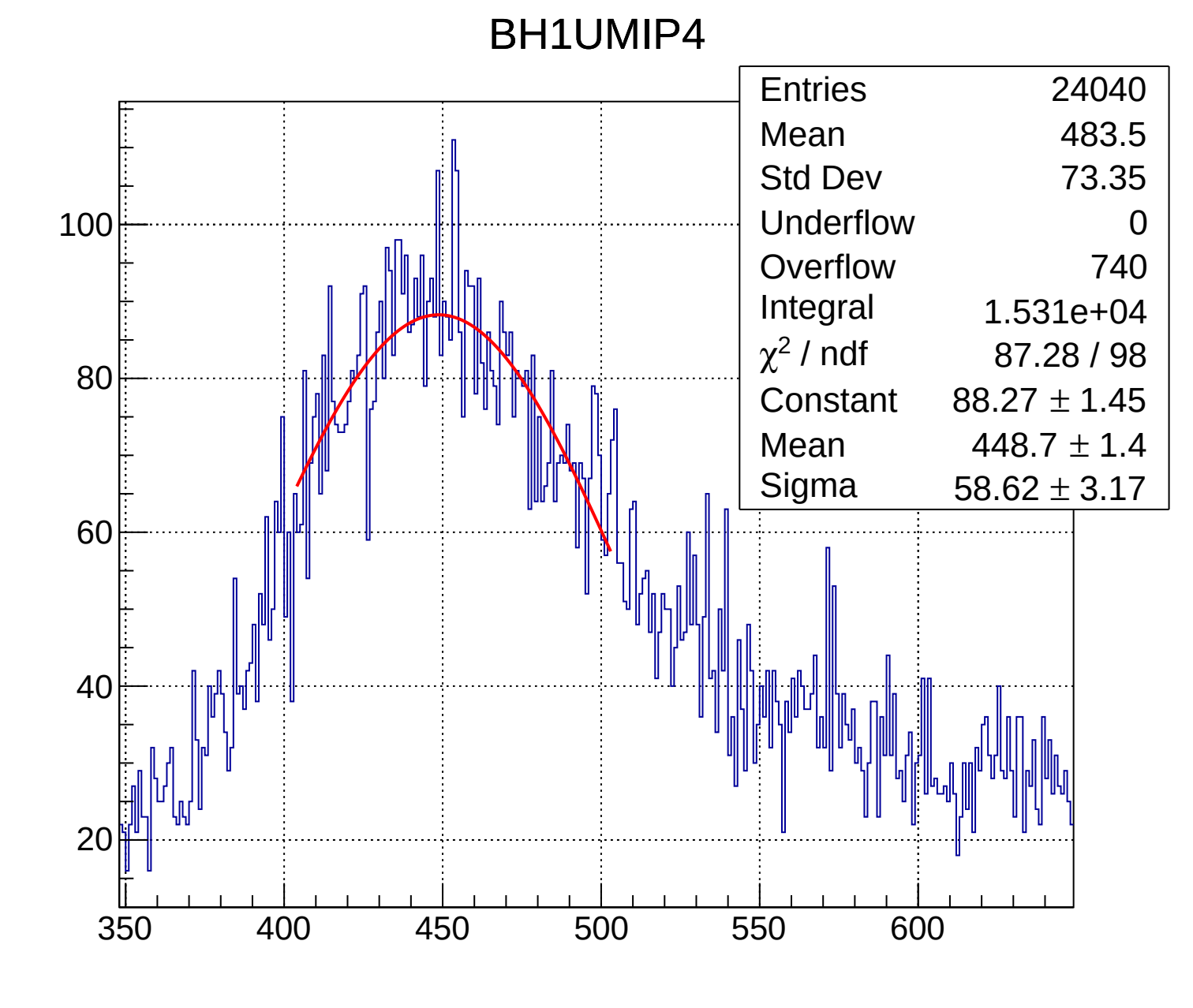

BH2UTns4
Entries 643
Mean −0.01587
Std Dev 0.1854
Underflow 0
Overflow 0
Integral 643
70
60
50
40
30
20
10
0
−3
−2
−1
0
1
2
3

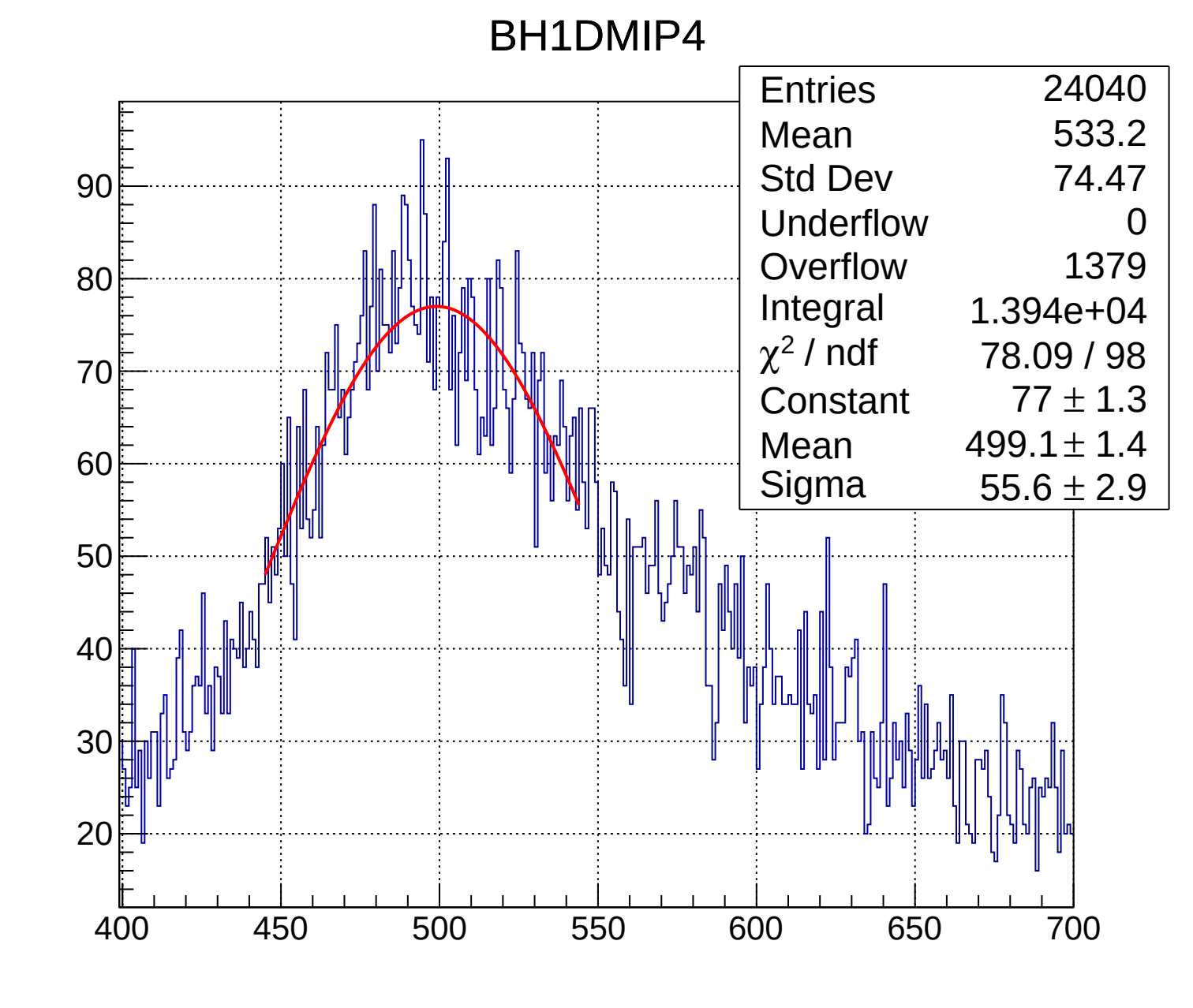

BH2DTns4
Entries 643
Mean −0.01837
Std Dev 0.1514
Underflow 0
Overflow 0
Integral 643
100
80
60
40
20
0
−3
−2
−1
0
1
2
3

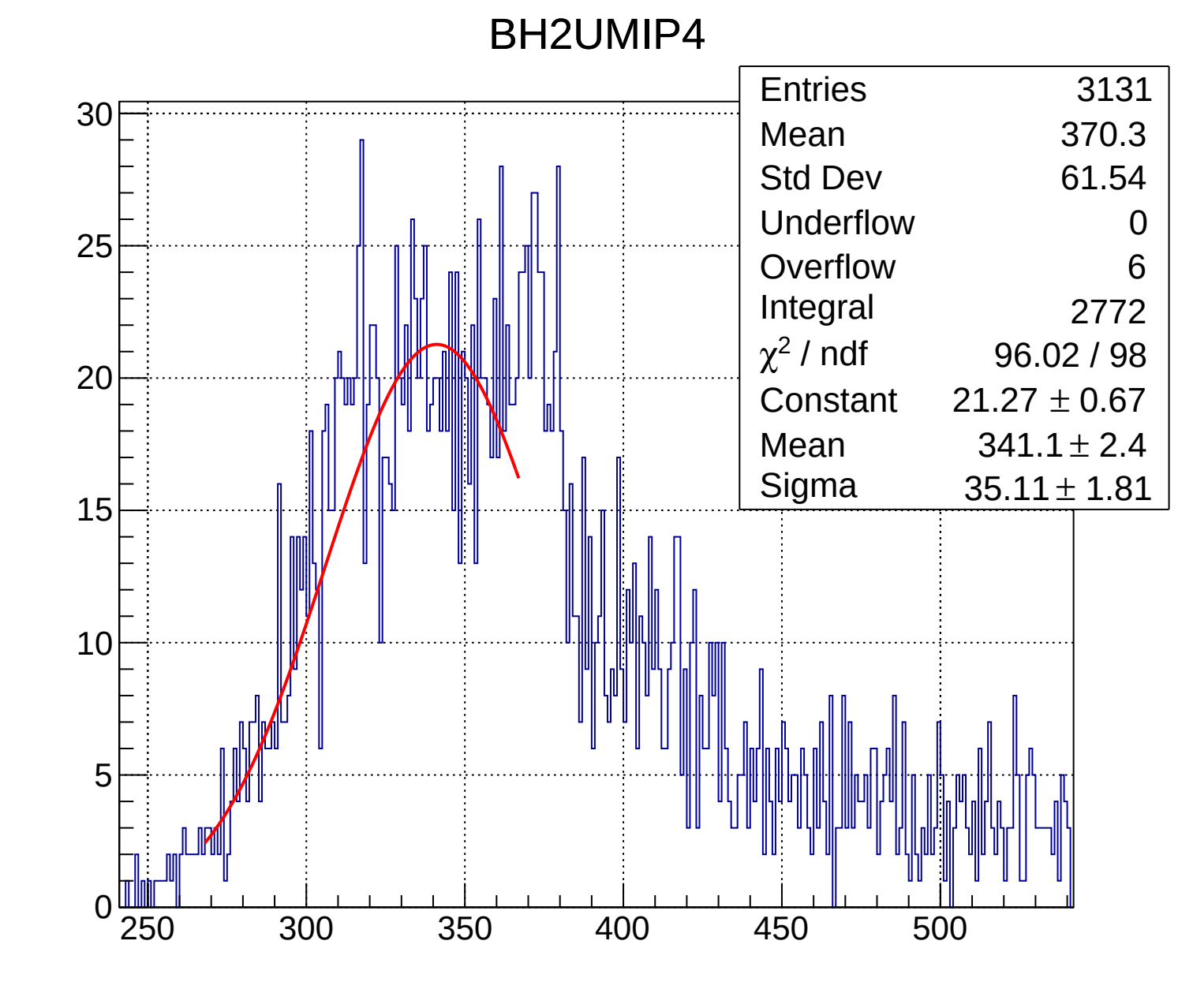

BH1MT4
Entries 643
Mean −0.0457
Std Dev 0.4084
Underflow 31
Overflow 63
Integral 549
40
35
30
25
20
15
10
5
0
−3
−2
−1
0
1
2
3

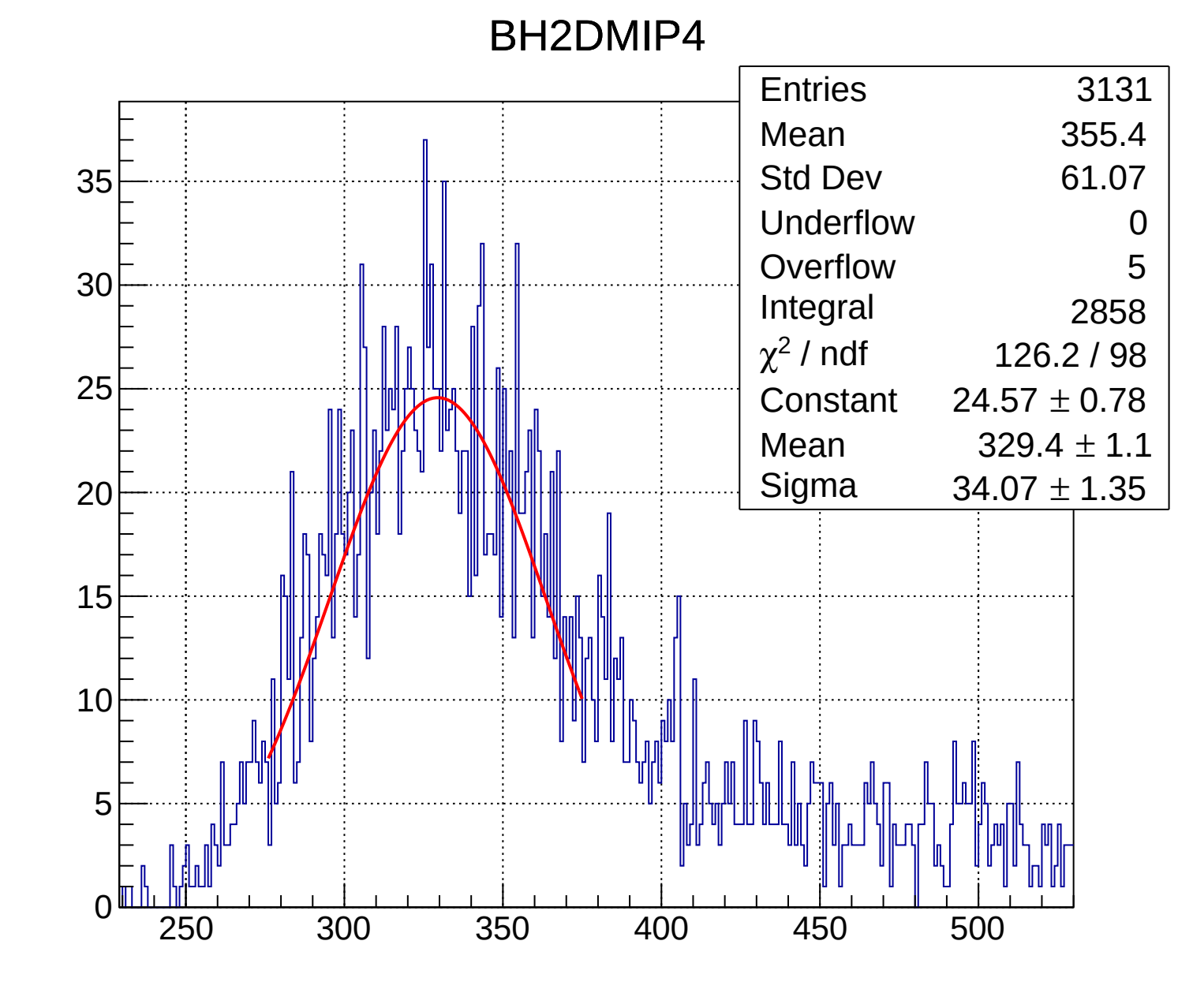

BH2MT4
Entries 643
Mean −0.01712
Std Dev 0.1082
Underflow 0
Overflow 0
Integral 643
180
160
140
120
100
80
60
40
20
0
−3
−2
−1
0
1
2
3

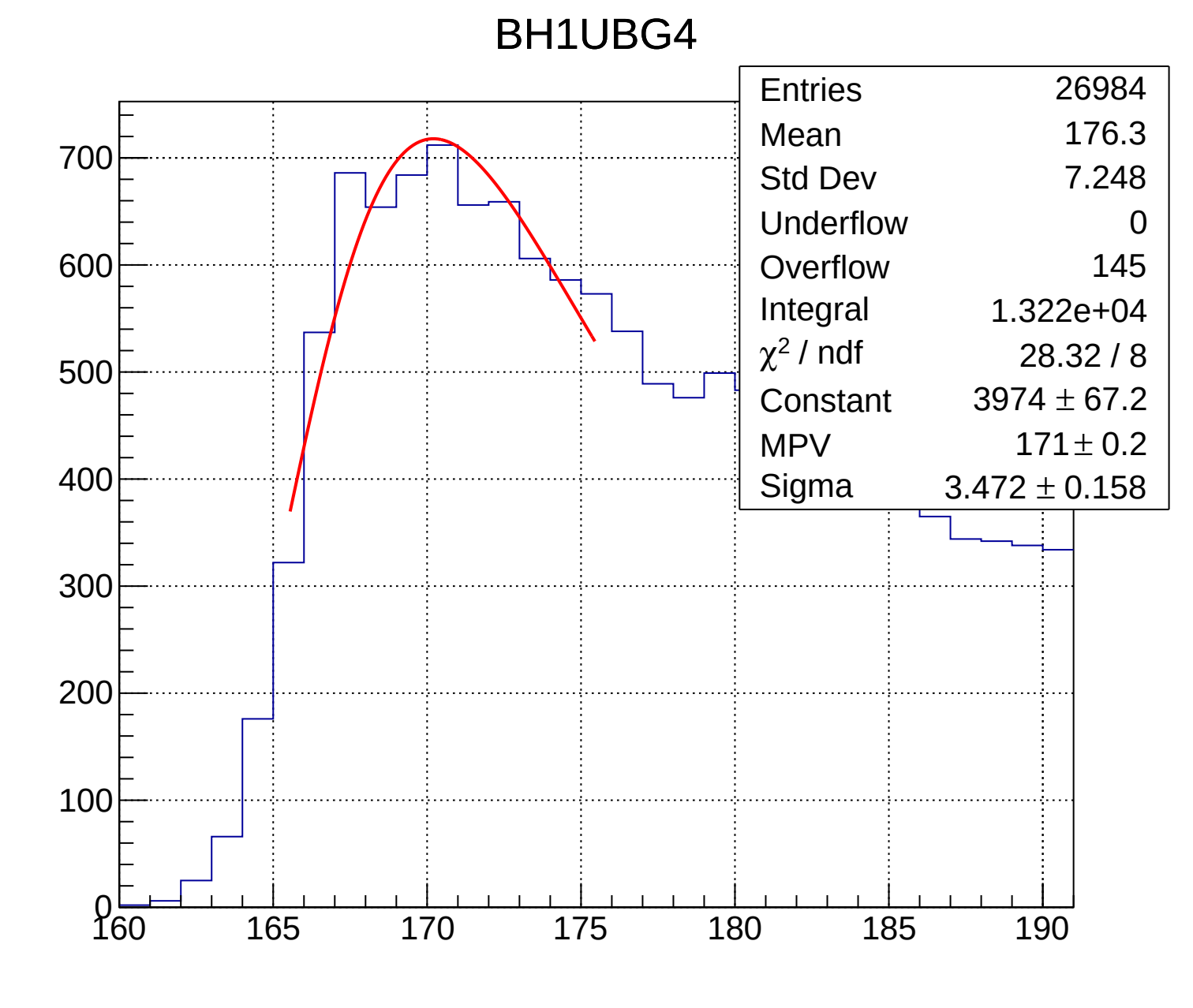

BTOF4_4
Entries 643
Mean −0.03004
Std Dev 0.4015
Underflow 31
Overflow 63
Integral 549
χ² / ndf 41.39 / 25
Constant 29.11 ± 1.87
Mean −0.006212 ± 0.012145
Sigma 0.2265 ± 0.0115
40
35
30
25
20
15
10
5
0
−3
−2
−1
0
1
2
3

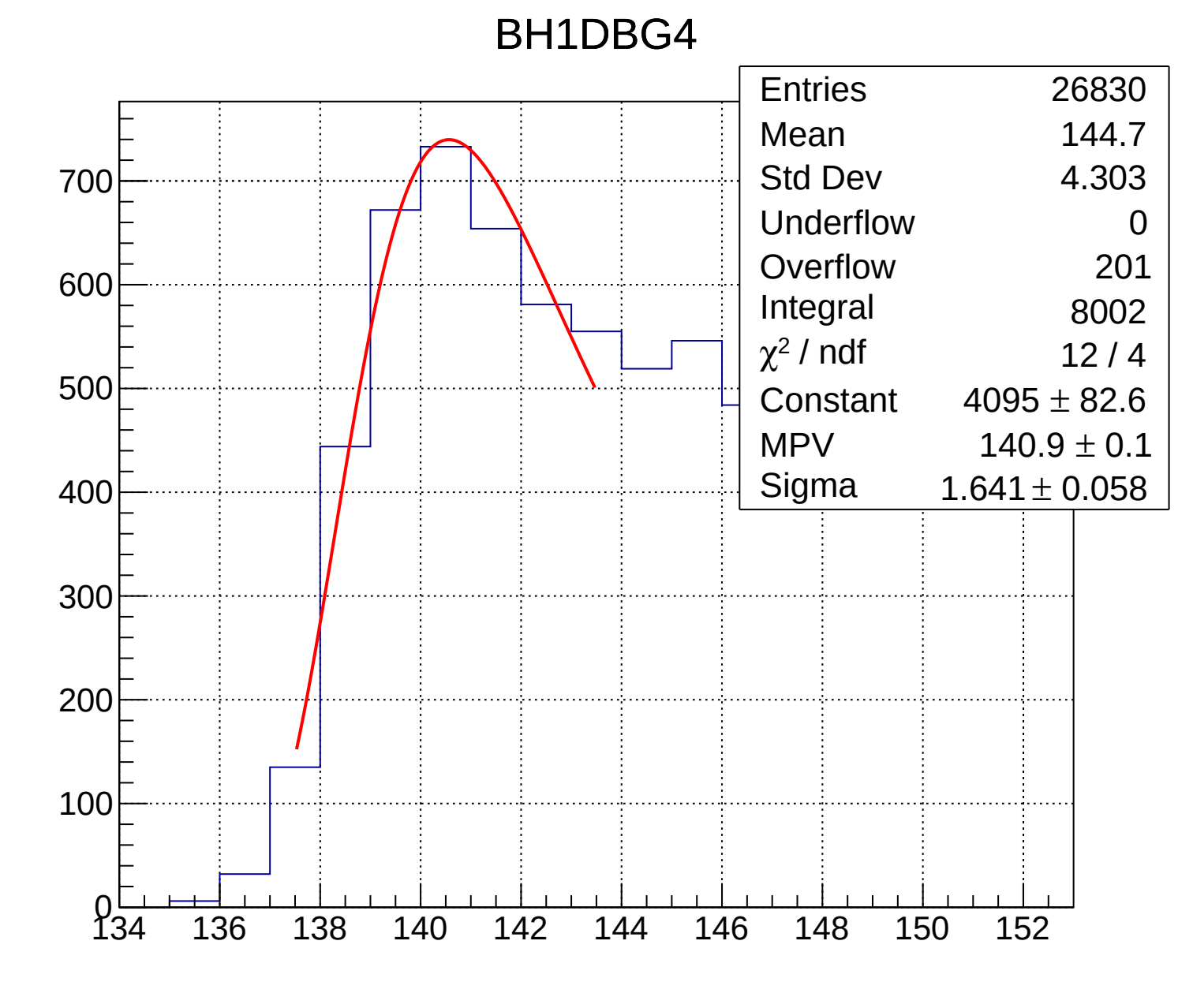

BH1UMIP4
Entries 24040
Mean 483.5
Std Dev 73.35
Underflow 0
Overflow 740
Integral 1.531e+04
χ² / ndf 87.28 / 98
Constant 88.27 ± 1.45
Mean 448.7 ± 1.4
Sigma 58.62 ± 3.17
100
80
60
40
20
350
400
450
500
550
600

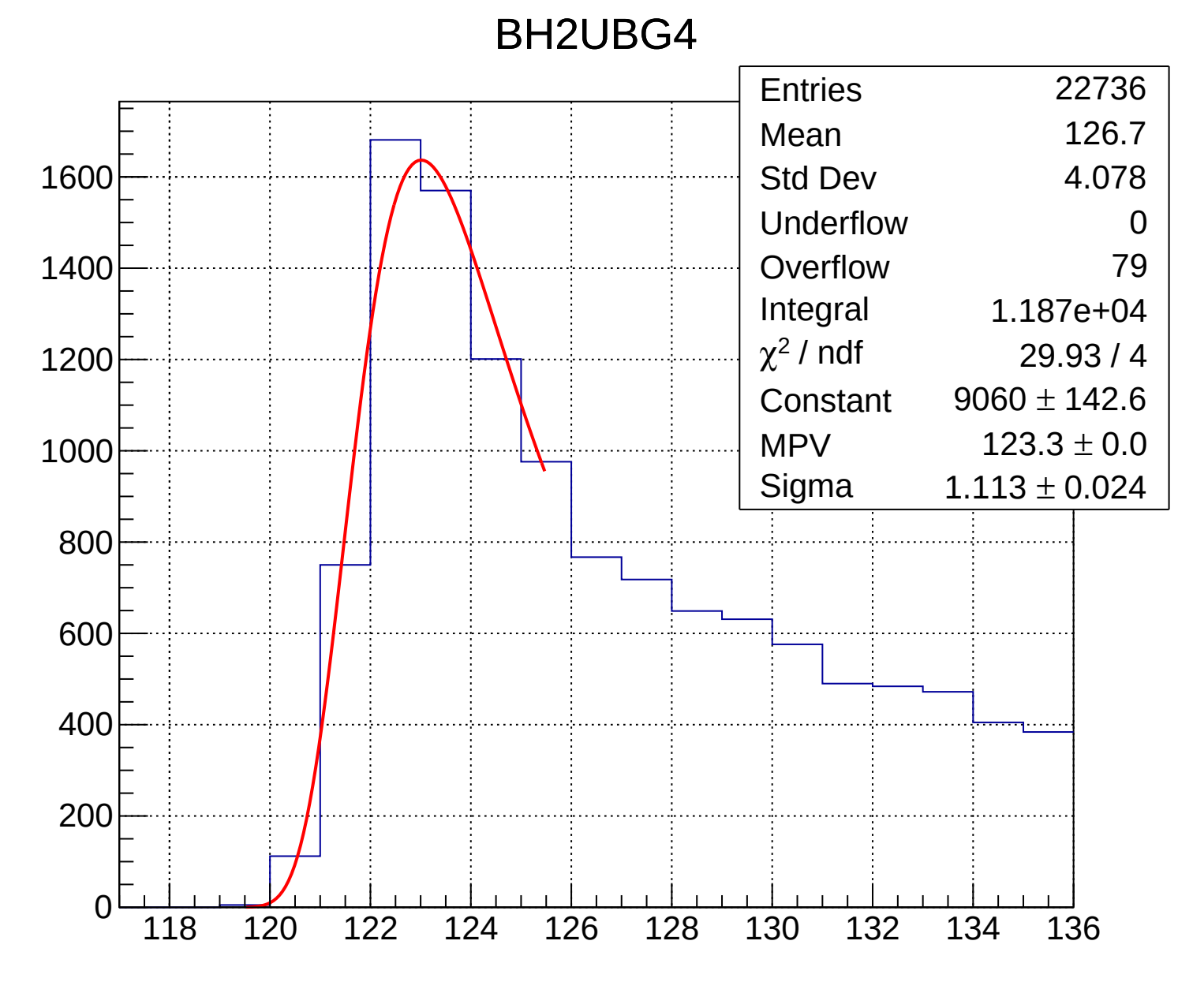

BH1DMIP4
Entries 24040
Mean 533.2
Std Dev 74.47
Underflow 0
Overflow 1379
Integral 1.394e+04
χ² / ndf 78.09 / 98
Constant 77 ± 1.3
Mean 499.1 ± 1.4
Sigma 55.6 ± 2.9
90
80
70
60
50
40
30
20
400
450
500
550
600
650
700

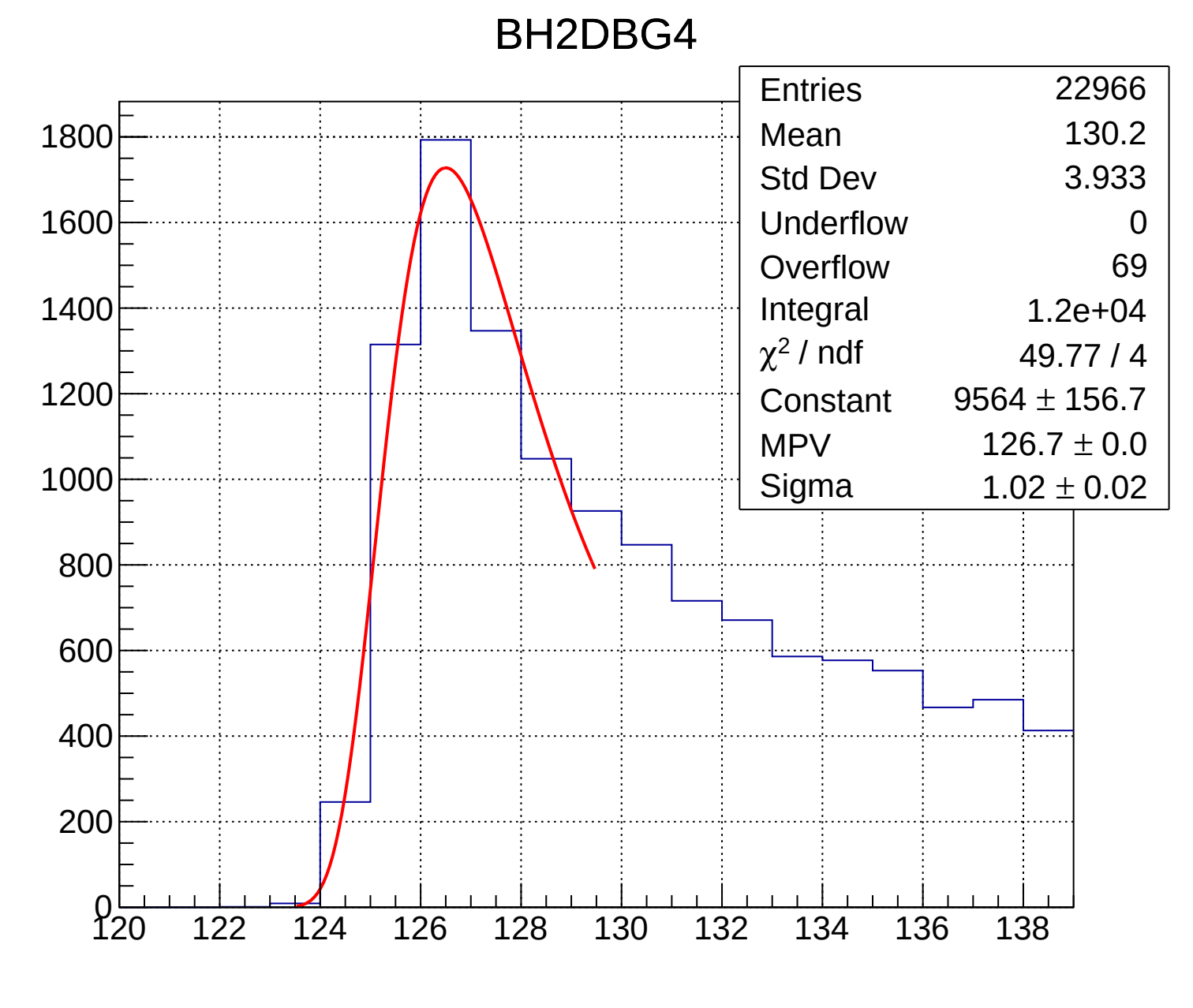

BH2UMIP4
Entries 3131
Mean 370.3
Std Dev 61.54
Underflow 0
Overflow 6
Integral 2772
χ2 / ndf 96.02 / 98
Constant 21.27 ± 0.67
Mean 341.1 ± 2.4
Sigma 35.11 ± 1.81
30
25
20
15
10
5
0
250
300
350
400
450
500

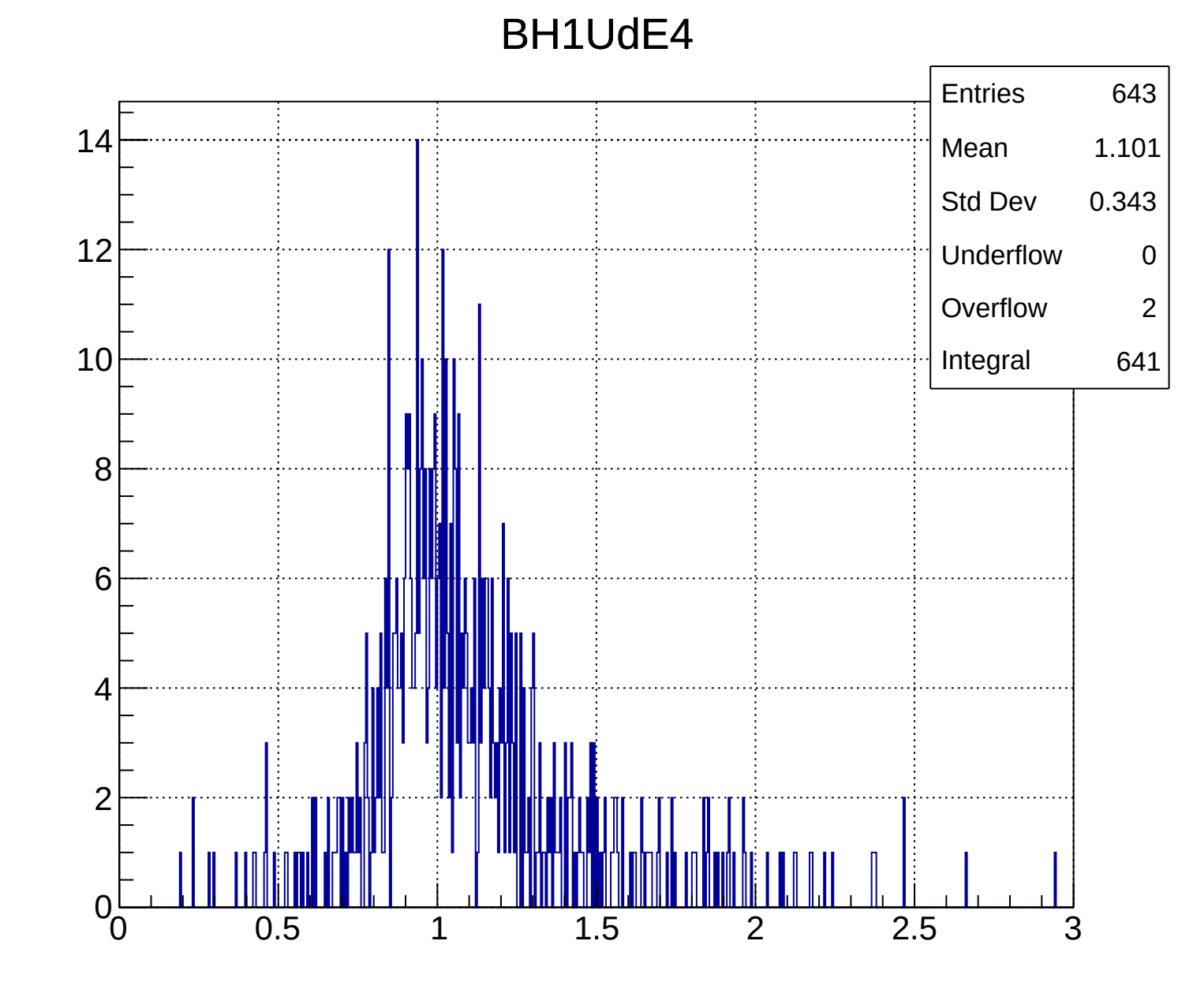

BH2DMIP4
Entries 3131
Mean 355.4
Std Dev 61.07
Underflow 0
Overflow 5
Integral 2858
χ² / ndf 126.2 / 98
Constant 24.57 ± 0.78
Mean 329.4 ± 1.1
Sigma 34.07 ± 1.35
0
5
10
15
20
25
30
35
250
300
350
400
450
500

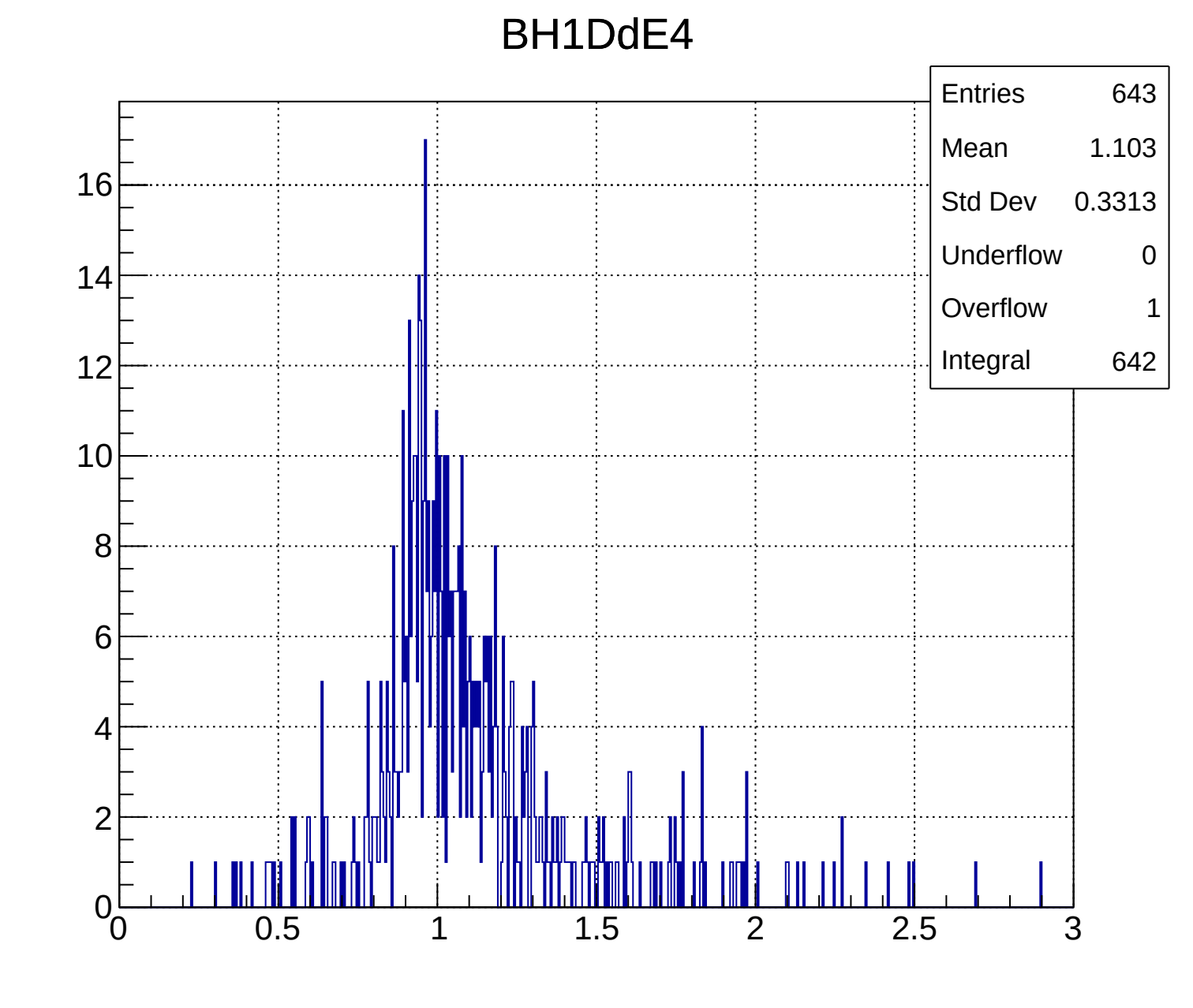

BH1UBG4
Entries 26984
Mean 176.3
Std Dev 7.248
Underflow 0
Overflow 145
Integral 1.322e+04
χ² / ndf 28.32 / 8
Constant 3974 ± 67.2
MPV 171 ± 0.2
Sigma 3.472 ± 0.158
0
100
200
300
400
500
600
700
160
165
170
175
180
185
190

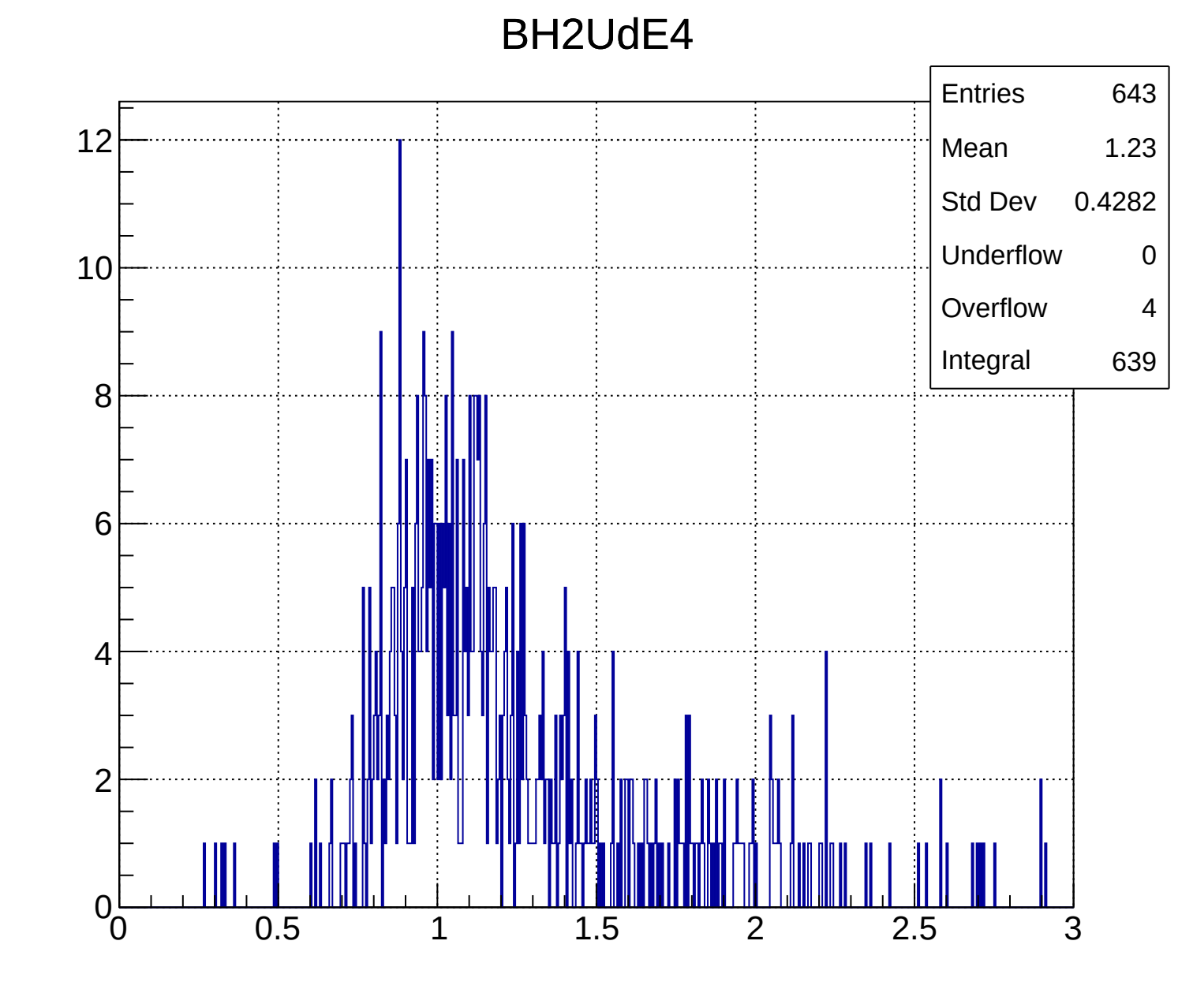

BH1DBG4
Entries 26830
Mean 144.7
Std Dev 4.303
Underflow 0
Overflow 201
Integral 8002
χ² / ndf 12 / 4
Constant 4095 ± 82.6
MPV 140.9 ± 0.1
Sigma 1.641 ± 0.058
0
100
200
300
400
500
600
700
134
136
138
140
142
144
146
148
150
152

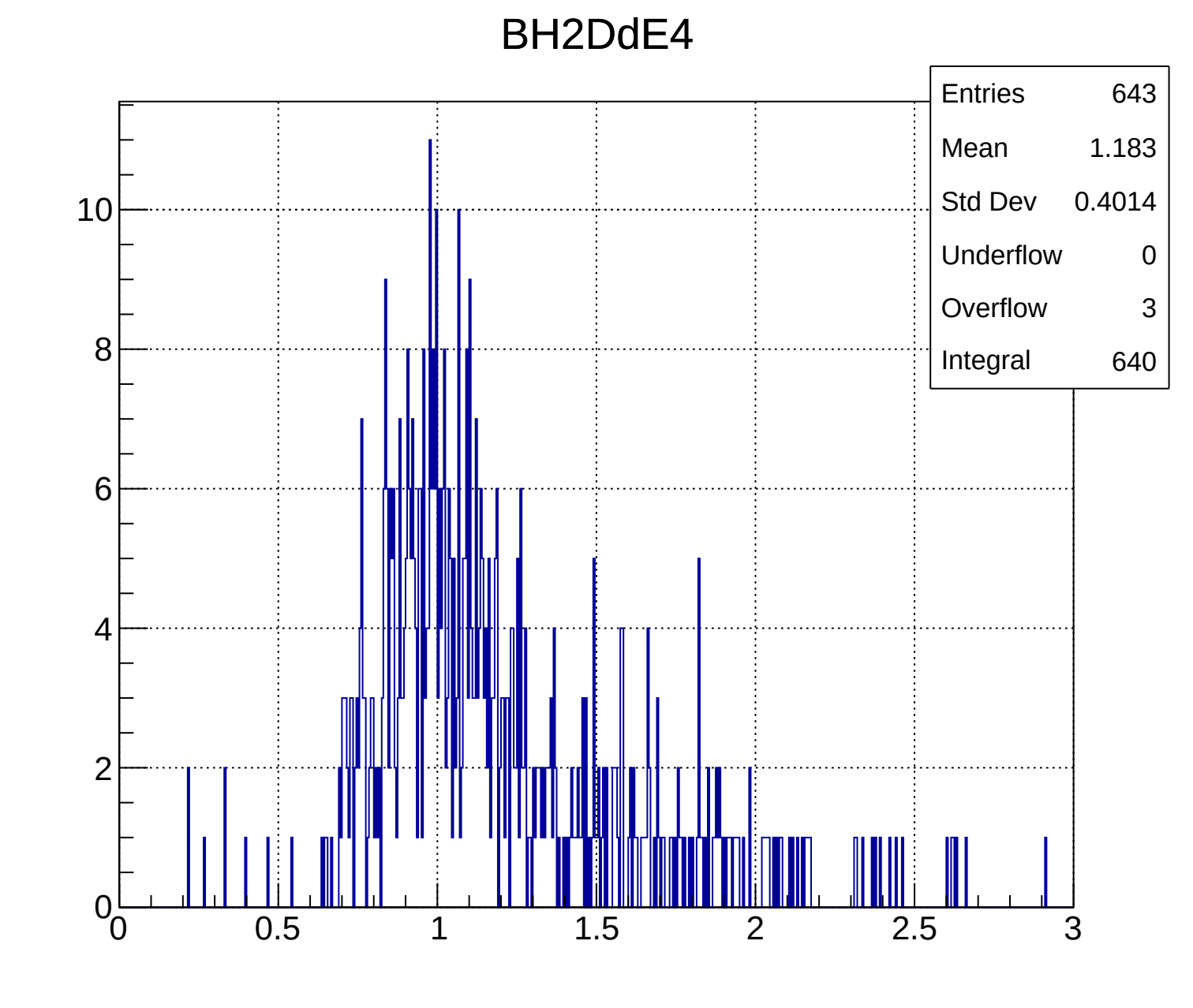

BH2UBG4
Entries 22736
Mean 126.7
Std Dev 4.078
Underflow 0
Overflow 79
Integral 1.187e+04
χ² / ndf 29.93 / 4
Constant 9060 ± 142.6
MPV 123.3 ± 0.0
Sigma 1.113 ± 0.024
0
200
400
600
800
1000
1200
1400
1600
118
120
122
124
126
128
130
132
134
136

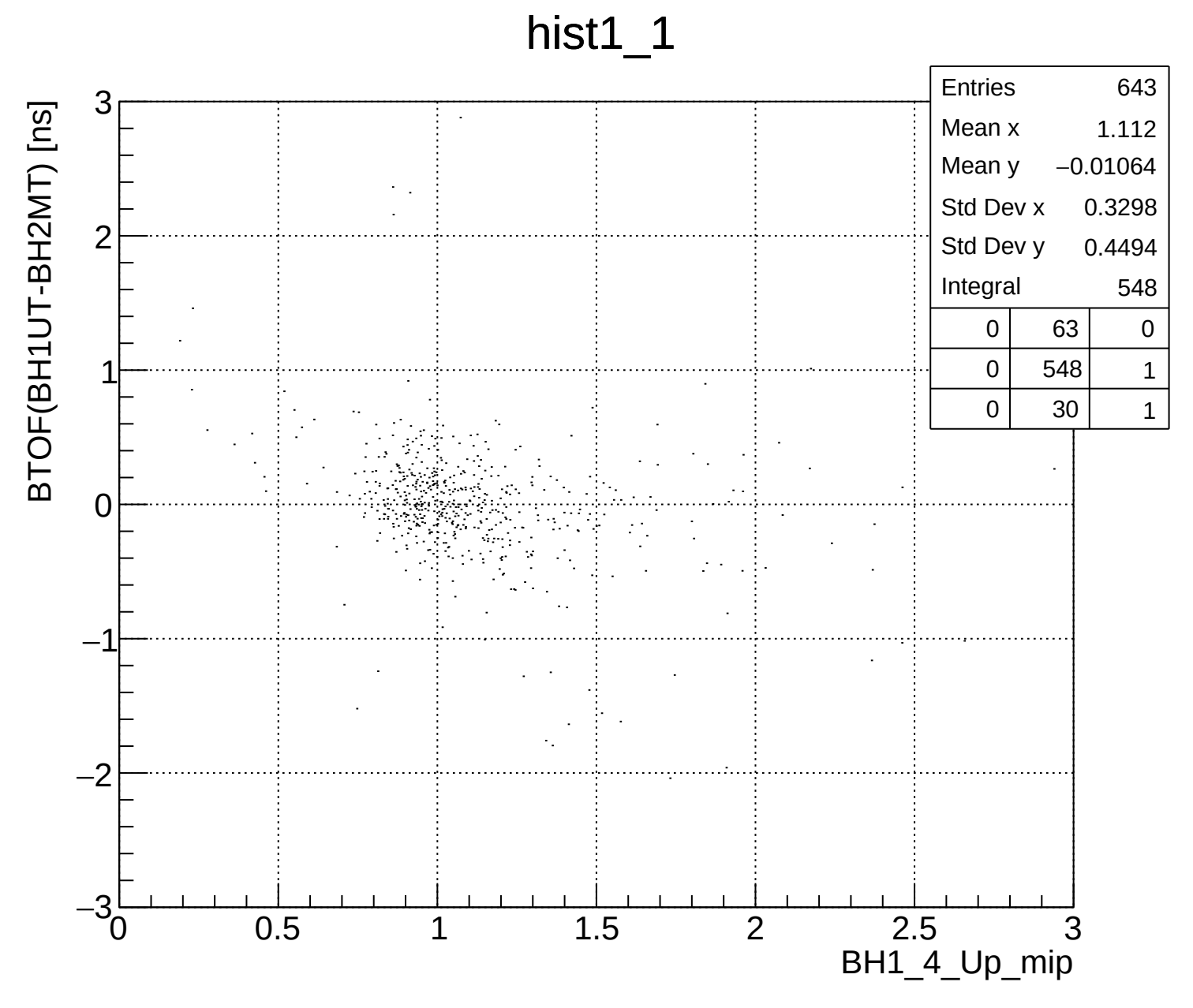

BH2DBG4
Entries 22966
Mean 130.2
Std Dev 3.933
Underflow 0
Overflow 69
Integral 1.2e+04
χ² / ndf 49.77 / 4
Constant 9564 ± 156.7
MPV 126.7 ± 0.0
Sigma 1.02 ± 0.02
1800
1600
1400
1200
1000
800
600
400
200
0
120
122
124
126
128
130
132
134
136
138

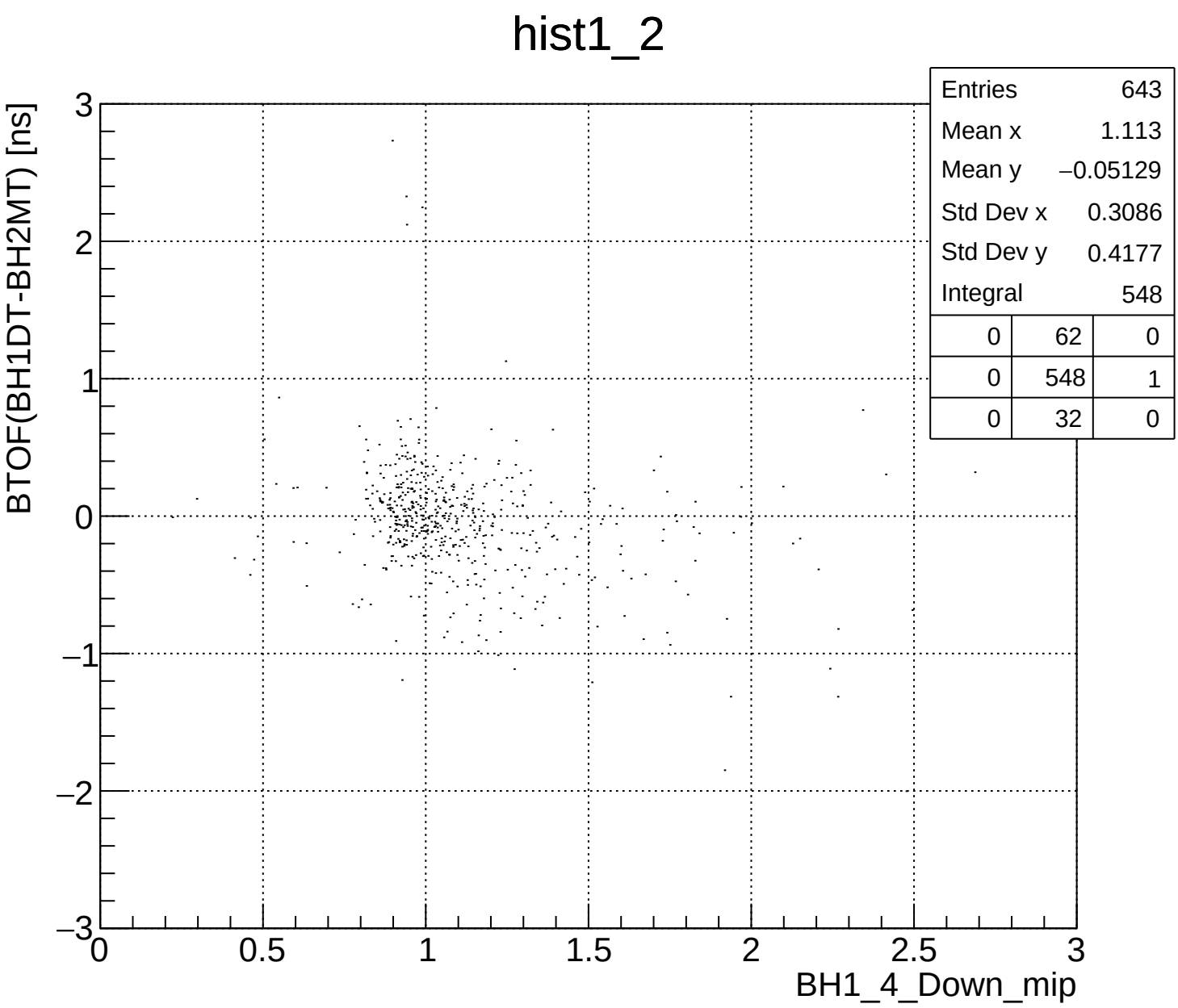

BH1UdE4
Entries 643
Mean 1.101
Std Dev 0.343
Underflow 0
Overflow 2
Integral 641
0
2
4
6
8
10
12
14
0
0.5
1
1.5
2
2.5
3

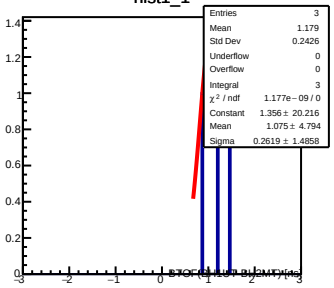

BH1DdE4
Entries 643
Mean 1.103
Std Dev 0.3313
Underflow 0
Overflow 1
Integral 642
0
2
4
6
8
10
12
14
16
0
0.5
1
1.5
2
2.5
3

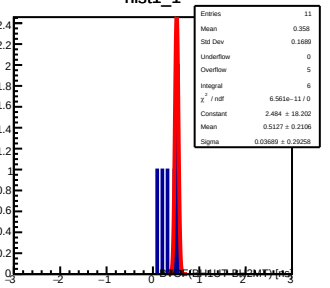

BH2UdE4
Entries 643
Mean 1.23
Std Dev 0.4282
Underflow 0
Overflow 4
Integral 639
0
2
4
6
8
10
12
0
0.5
1
1.5
2
2.5
3

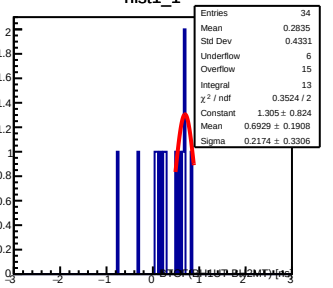

BH2DdE4
Entries 643
Mean 1.183
Std Dev 0.4014
Underflow 0
Overflow 3
Integral 640
0
2
4
6
8
10
0
0.5
1
1.5
2
2.5
3

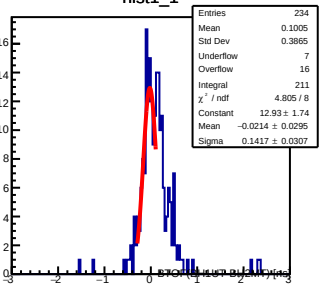

hist1_1
Entries 643
Mean x 1.112
Mean y −0.01064
Std Dev x 0.3298
Std Dev y 0.4494
Integral 548
0 63 0
0 548 1
0 30 1
BTOF(BH1UT-BH2MT) [ns]
BH1_4_Up_mip
3
2
1
0
−1
−2
−3
0
0.5
1
1.5
2
2.5
3

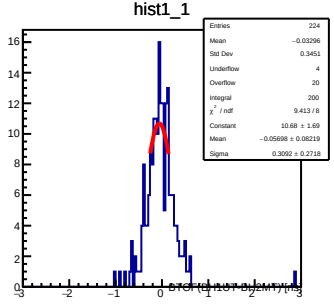

hist1_2
Entries 643
Mean x 1.113
Mean y −0.05129
Std Dev x 0.3086
Std Dev y 0.4177
Integral 548
0 62 0
0 548 1
0 32 0
BTOF(BH1DT-BH2MT) [ns]
BH1_4_Down_mip
3
2
1
0
−1
−2
−3
0
0.5
1
1.5
2
2.5
3

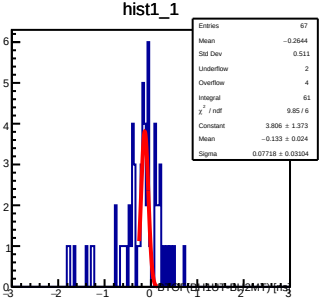

hist1_1
Entries 3
Mean 1.179
Std Dev 0.2426
Underflow 0
Overflow 0
Integral 3
χ² / ndf 1.177e−09 / 0
Constant 1.356 ± 20.216
Mean 1.075 ± 4.794
Sigma 0.2619 ± 1.4858

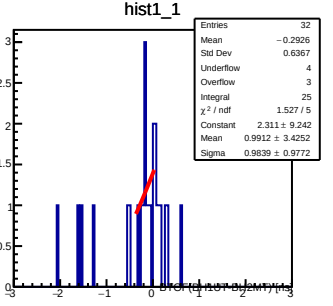

hist1_1
Entries 11
Mean 0.358
Std Dev 0.1689
Underflow 0
Overflow 5
Integral 6
χ² / ndf 6.561e−11 / 0
Constant 2.484 ± 18.202
Mean 0.5127 ± 0.2106
Sigma 0.03689 ± 0.29258

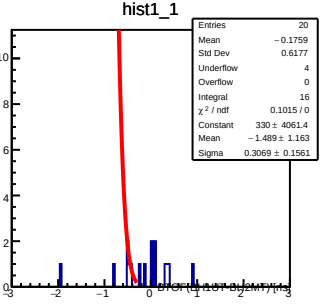

hist1_1
Entries 34
Mean 0.2835
Std Dev 0.4331
Underflow 6
Overflow 15
Integral 13
χ² / ndf 0.3524 / 2
Constant 1.305 ± 0.824
Mean 0.6929 ± 0.1908
Sigma 0.2174 ± 0.3306

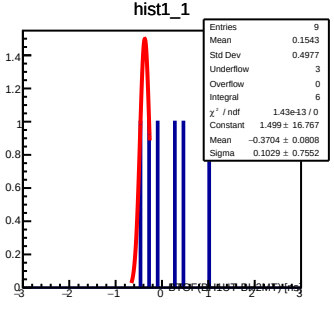

hist1_1
Entries 234
Mean 0.1005
Std Dev 0.3865
Underflow 7
Overflow 16
Integral 211
χ² / ndf 4.805 / 8
Constant 12.93 ± 1.74
Mean −0.0214 ± 0.0295
Sigma 0.1417 ± 0.0307

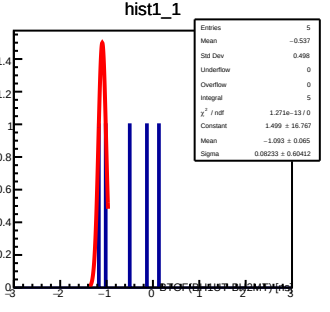

hist1_1
Entries 224
Mean −0.03296
Std Dev 0.3451
Underflow 4
Overflow 20
Integral 200
χ² / ndf 9.413 / 8
Constant 10.68 ± 1.69
Mean −0.05698 ± 0.08219
Sigma 0.3092 ± 0.2718

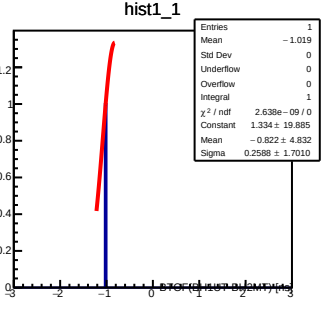

hist1_1
Entries 67
Mean −0.2644
Std Dev 0.511
Underflow 2
Overflow 4
Integral 61
χ² / ndf 9.85 / 6
Constant 3.806 ± 1.373
Mean −0.133 ± 0.024
Sigma 0.07718 ± 0.03104

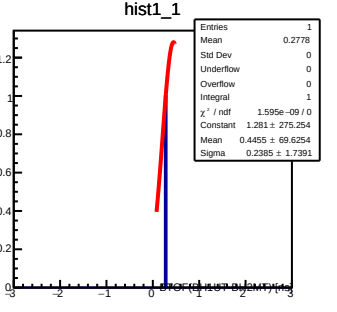

hist1_1
Entries 32
Mean −0.2926
Std Dev 0.6367
Underflow 4
Overflow 3
Integral 25
χ² / ndf 1.527 / 5
Constant 2.311 ± 9.242
Mean 0.9912 ± 3.4252
Sigma 0.9839 ± 0.9772

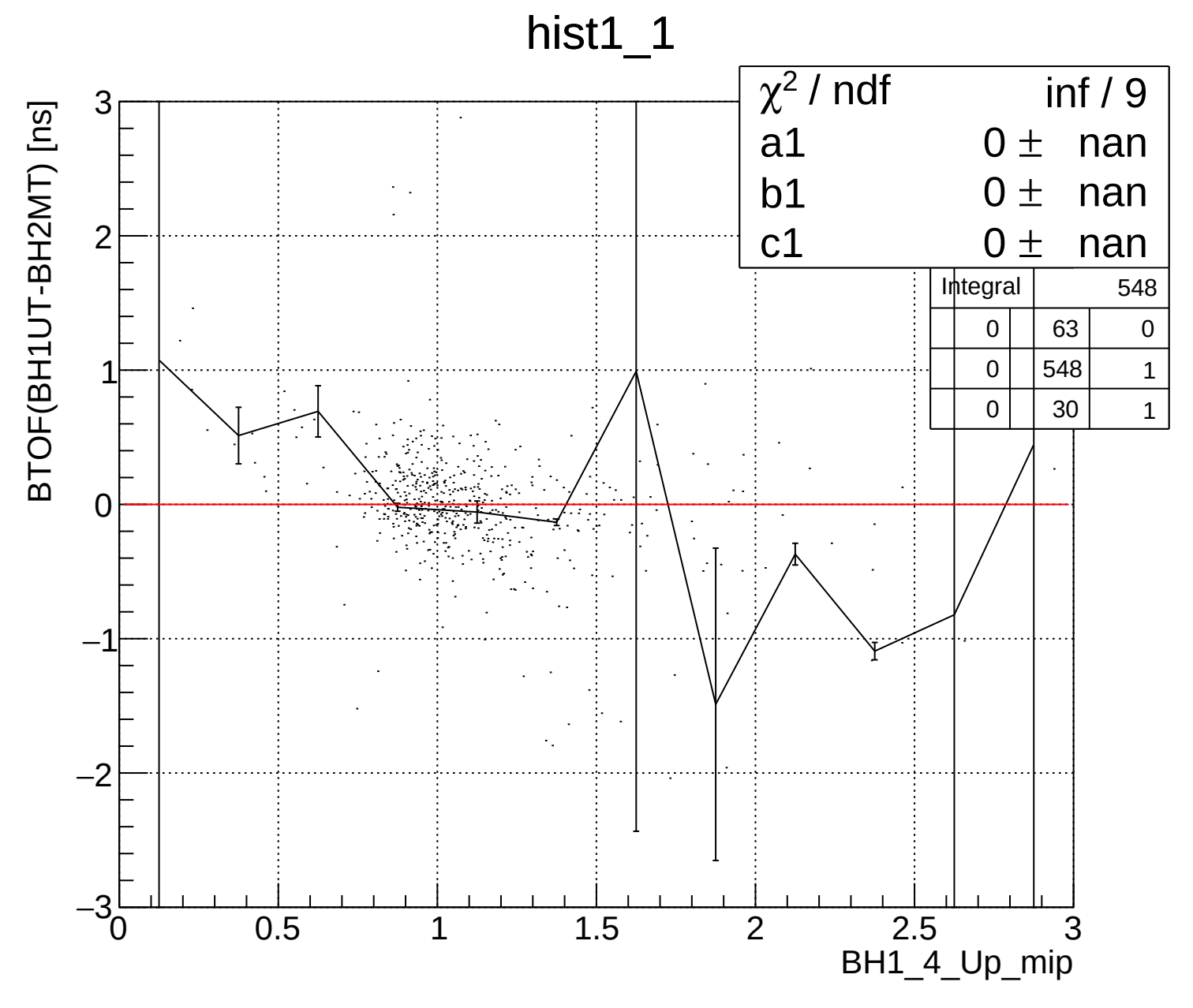

hist1_1
Entries 20
Mean −0.1759
Std Dev 0.6177
Underflow 4
Overflow 0
Integral 16
χ² / ndf 0.1015 / 0
Constant 330 ± 4061.4
Mean −1.489 ± 1.163
Sigma 0.3069 ± 0.1561


hist1_1
Entries 9
Mean 0.1543
Std Dev 0.4977
Underflow 3
Overflow 0
Integral 6
χ² / ndf 1.43e−13 / 0
Constant 1.499 ± 16.767
Mean −0.3704 ± 0.0808
Sigma 0.1029 ± 0.7552


hist1_1
Entries 5
Mean −0.537
Std Dev 0.498
Underflow 0
Overflow 0
Integral 5
χ² / ndf 1.271e−13 / 0
Constant 1.499 ± 16.767
Mean −1.093 ± 0.065
Sigma 0.08233 ± 0.60412


hist1_1
Entries 1
Mean −1.019
Std Dev 0
Underflow 0
Overflow 0
Integral 1
χ² / ndf 2.638e−09 / 0
Constant 1.334 ± 19.885
Mean −0.822 ± 4.832
Sigma 0.2588 ± 1.7010


hist1_1
Entries 1
Mean 0.2778
Std Dev 0
Underflow 0
Overflow 0
Integral 1
χ² / ndf 1.595e−09 / 0
Constant 1.281 ± 275.254
Mean 0.4455 ± 69.6254
Sigma 0.2385 ± 1.7391


hist1_1
χ² / ndf inf / 9
a1 0 ± nan
b1 0 ± nan
c1 0 ± nan
Integral 548
0 63 0
0 548 1
0 30 1
BTOF(BH1UT-BH2MT) [ns]
BH1_4_Up_mip
3
2
1
0
−1
−2
−3
0
0.5
1
1.5
2
2.5
3