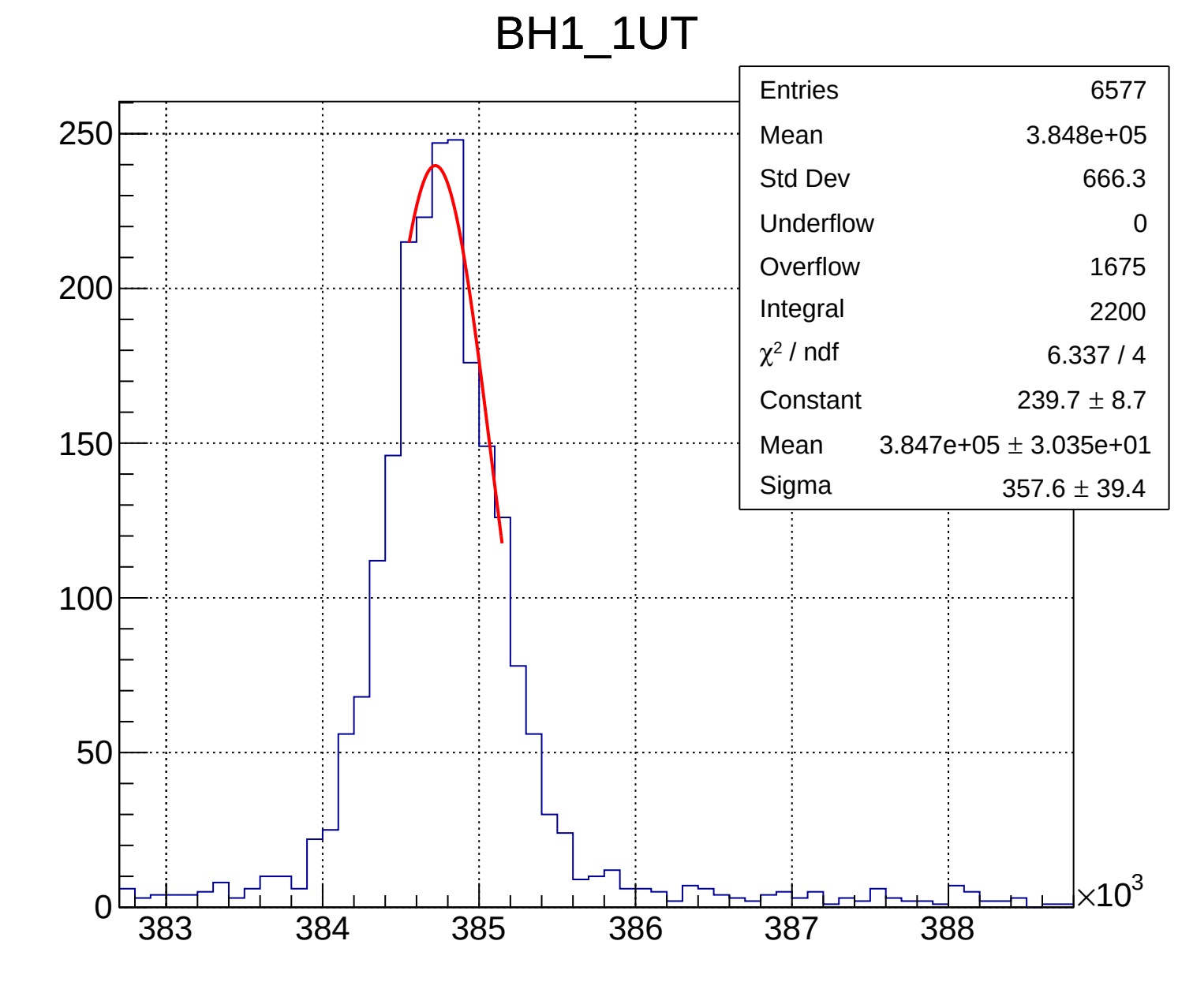
BH1_1UT
Entries 6577
Mean 3.848e+05
Std Dev 666.3
Underflow 0
Overflow 1675
Integral 2200
χ² / ndf 6.337 / 4
Constant 239.7 ± 8.7
Mean 3.847e+05 ± 3.035e+01
Sigma 357.6 ± 39.4
250
200
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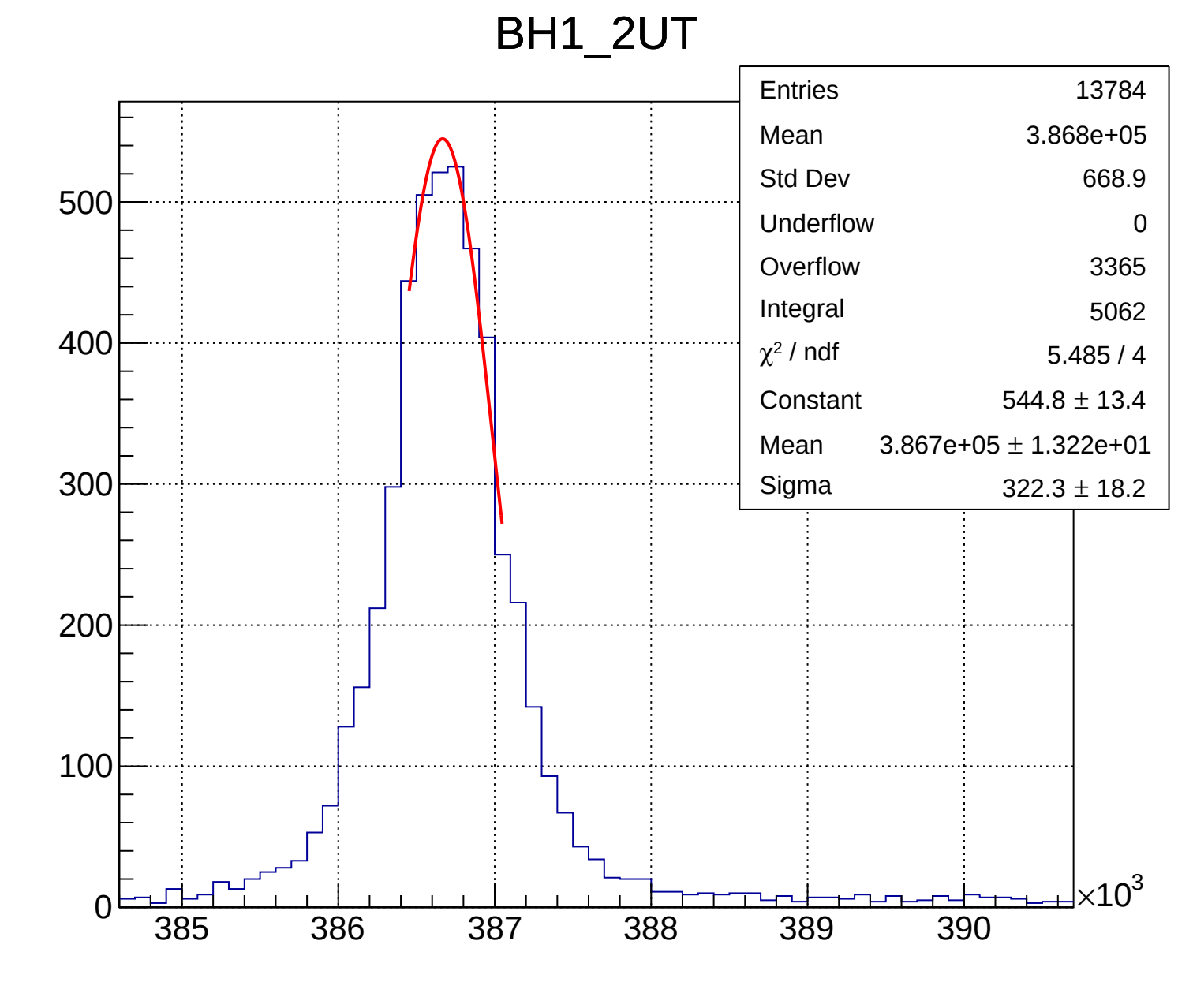
0
383
384
385
386
387
388
×10³


BH1_2UT
Entries 13784
Mean 3.868e+05
Std Dev 668.9
Underflow 0
Overflow 3365
Integral 5062
χ² / ndf 5.485 / 4
Constant 544.8 ± 13.4
Mean 3.867e+05 ± 1.322e+01
Sigma 322.3 ± 18.2
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300
200
100
0
385
386
387
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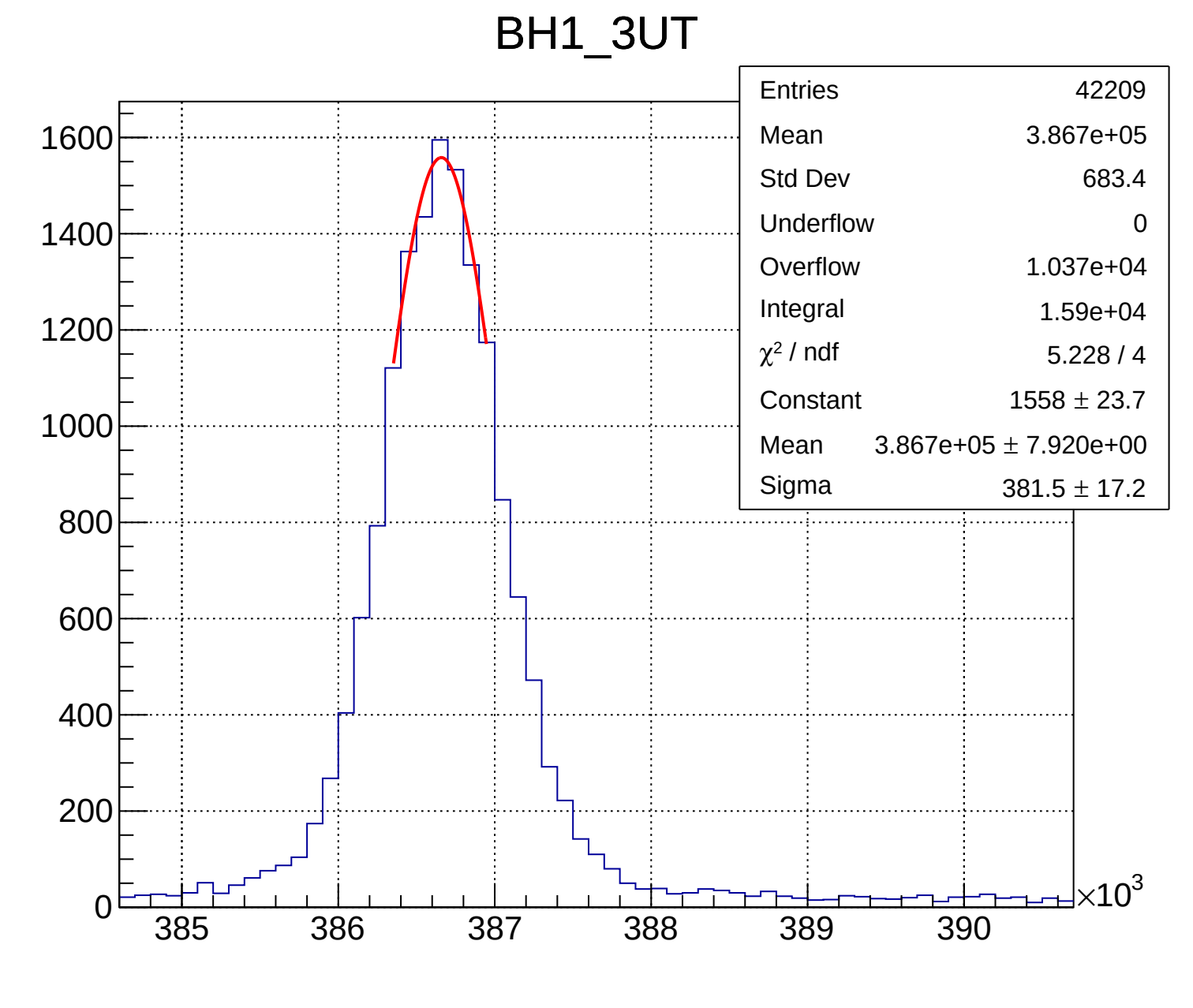
389
390
×10³


BH1_3UT
Entries 42209
Mean 3.867e+05
Std Dev 683.4
Underflow 0
Overflow 1.037e+04
Integral 1.59e+04
χ² / ndf 5.228 / 4
Constant 1558 ± 23.7
Mean 3.867e+05 ± 7.920e+00
Sigma 381.5 ± 17.2
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1400
1200
1000
800
600
400
200
0
385
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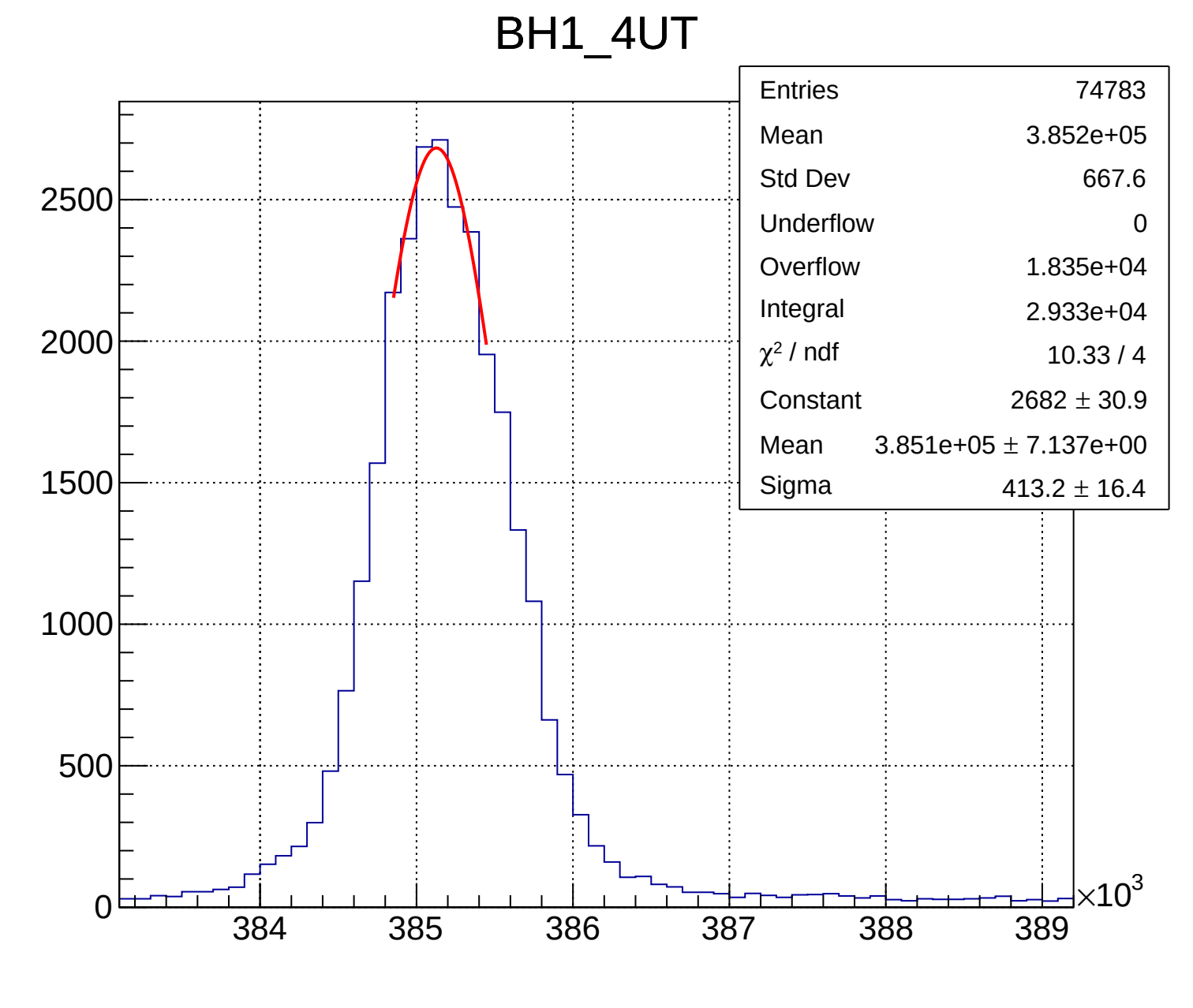
387
388
389
390
×10³


BH1_4UT
Entries 74783
Mean 3.852e+05
Std Dev 667.6
Underflow 0
Overflow 1.835e+04
Integral 2.933e+04
χ² / ndf 10.33 / 4
Constant 2682 ± 30.9
Mean 3.851e+05 ± 7.137e+00
Sigma 413.2 ± 16.4
2500
2000
1500
1000
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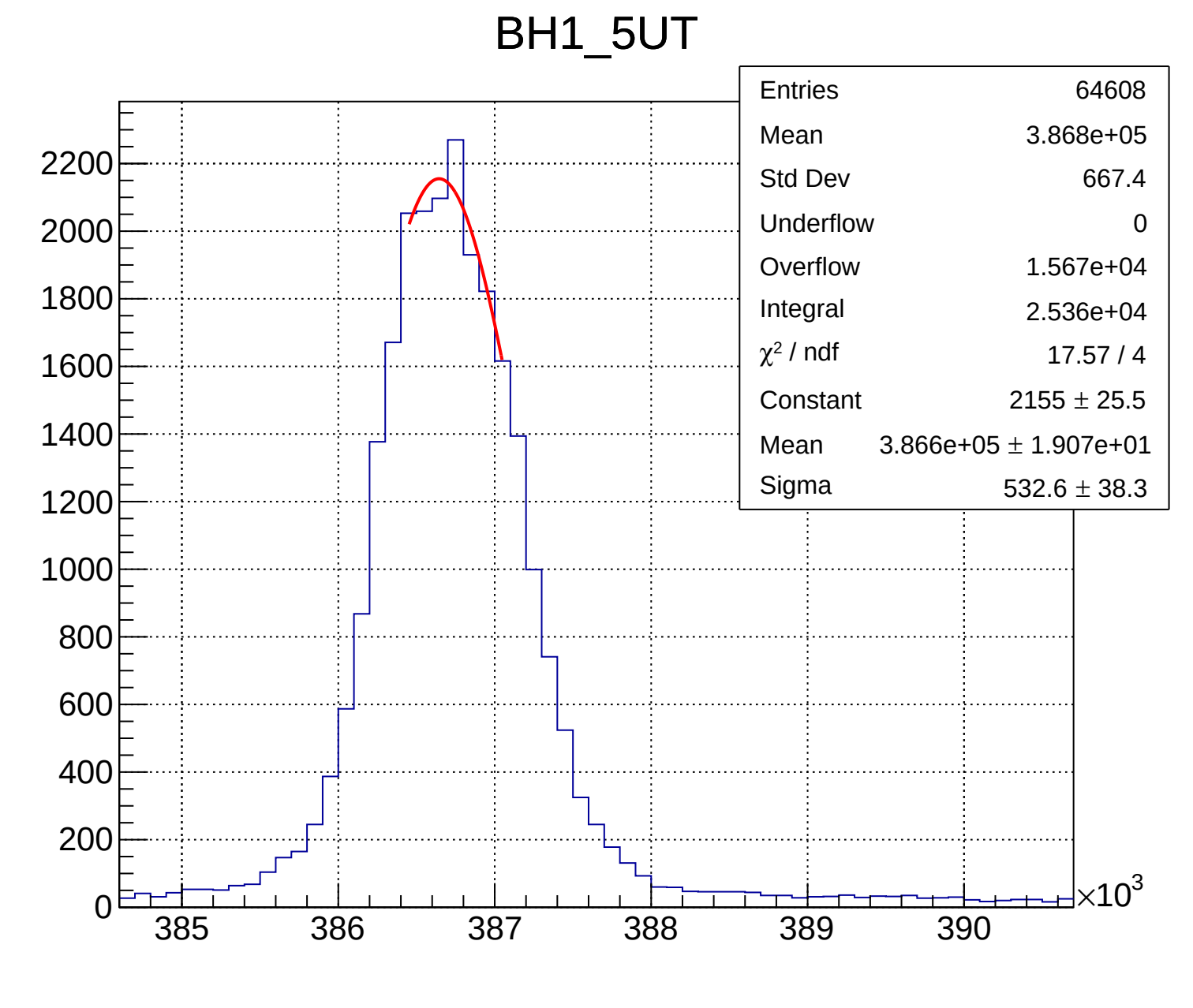
0
384
385
386
387
388
389
×10³


BH1_5UT
Entries 64608
Mean 3.868e+05
Std Dev 667.4
Underflow 0
Overflow 1.567e+04
Integral 2.536e+04
χ² / ndf 17.57 / 4
Constant 2155 ± 25.5
Mean 3.866e+05 ± 1.907e+01
Sigma 532.6 ± 38.3
2200
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1400
1200
1000
800
600
400
200
0
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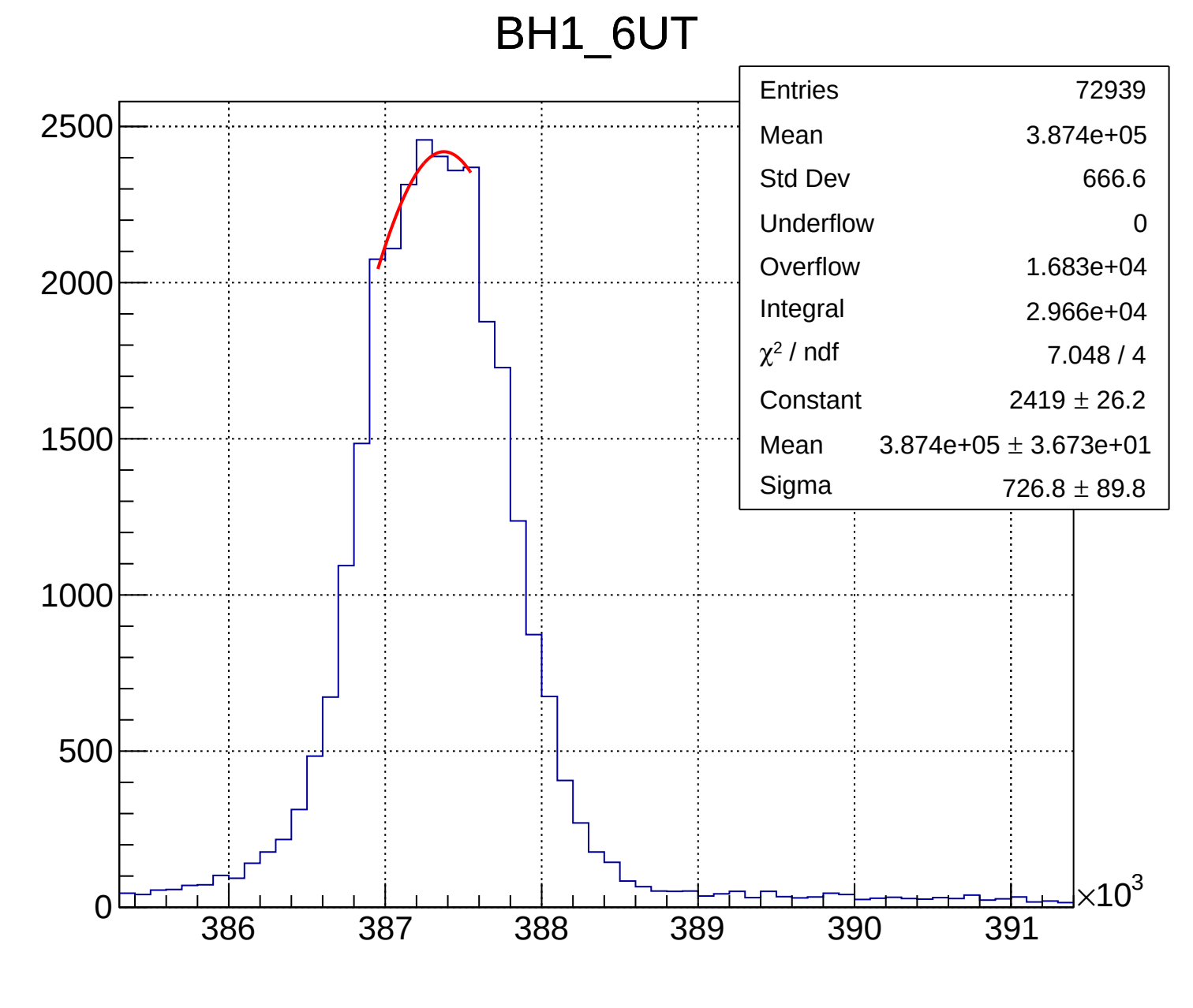
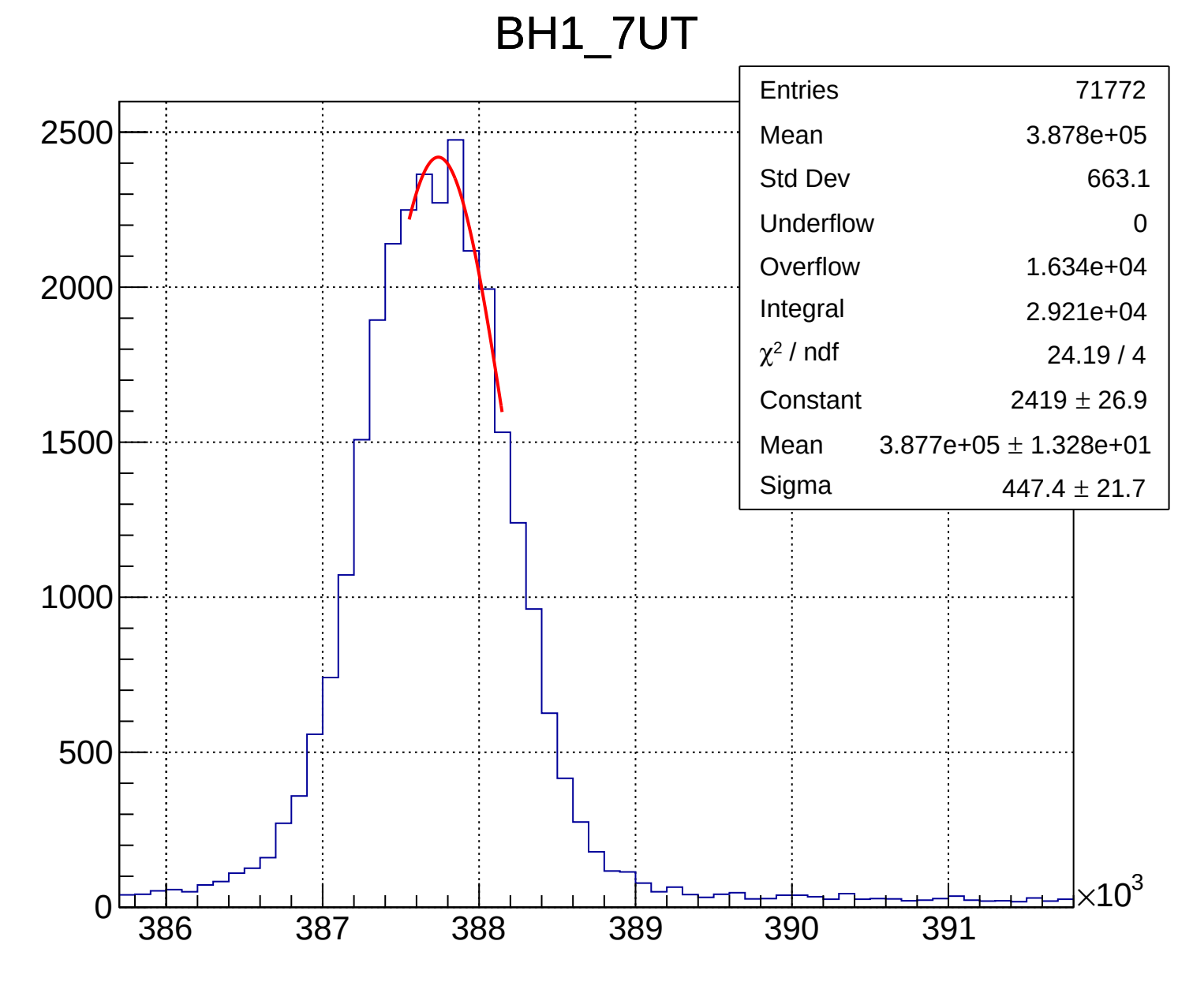
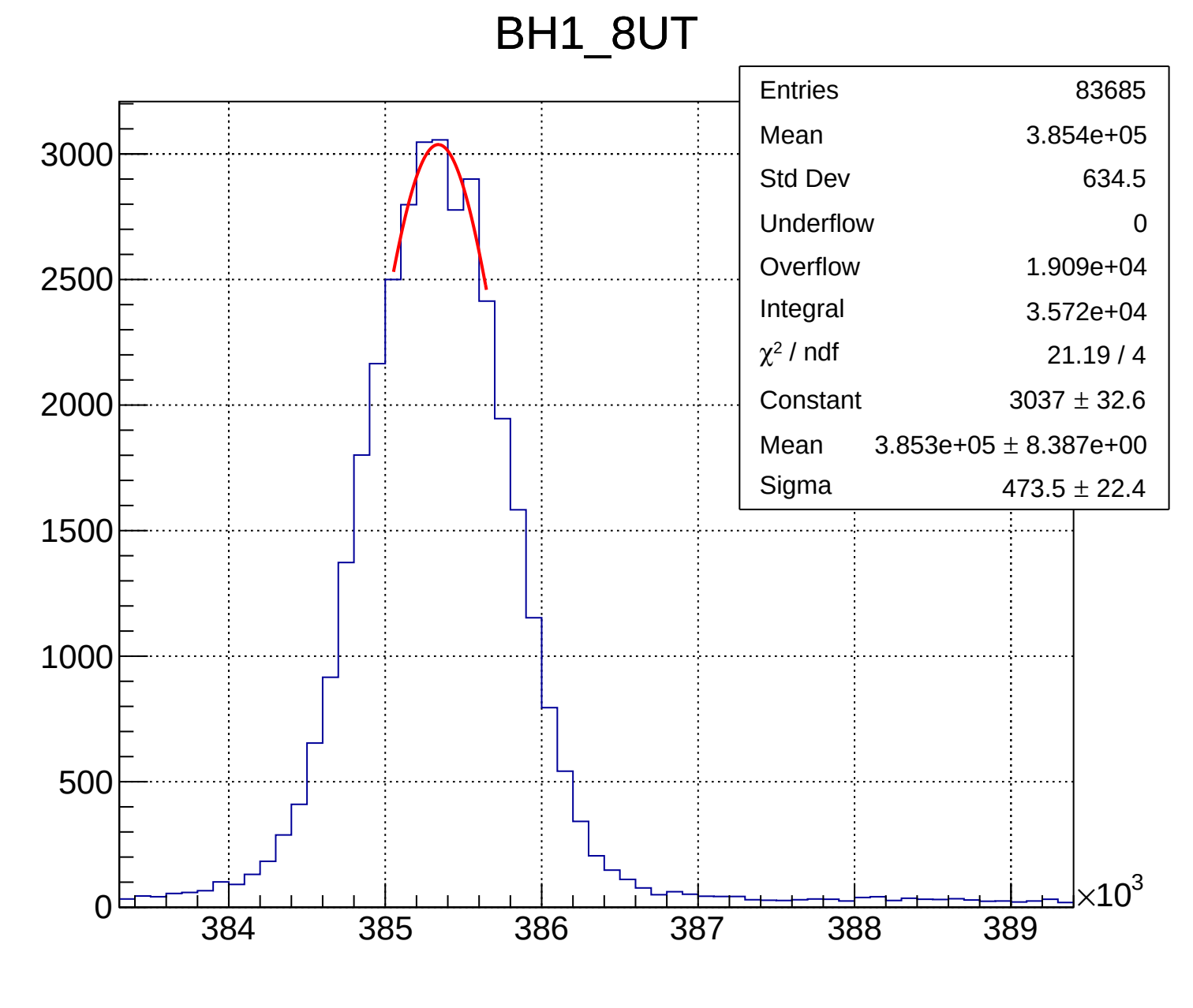
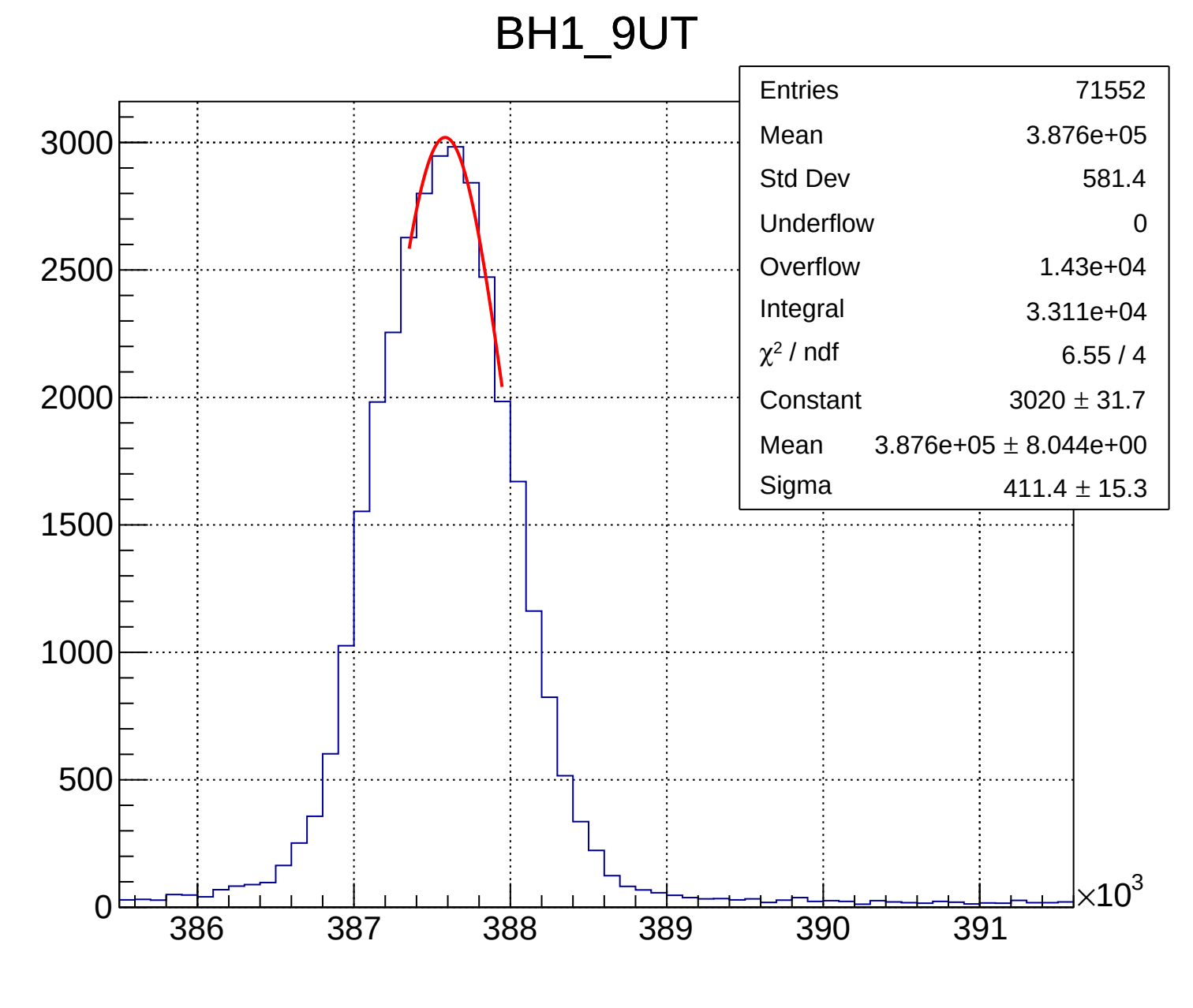
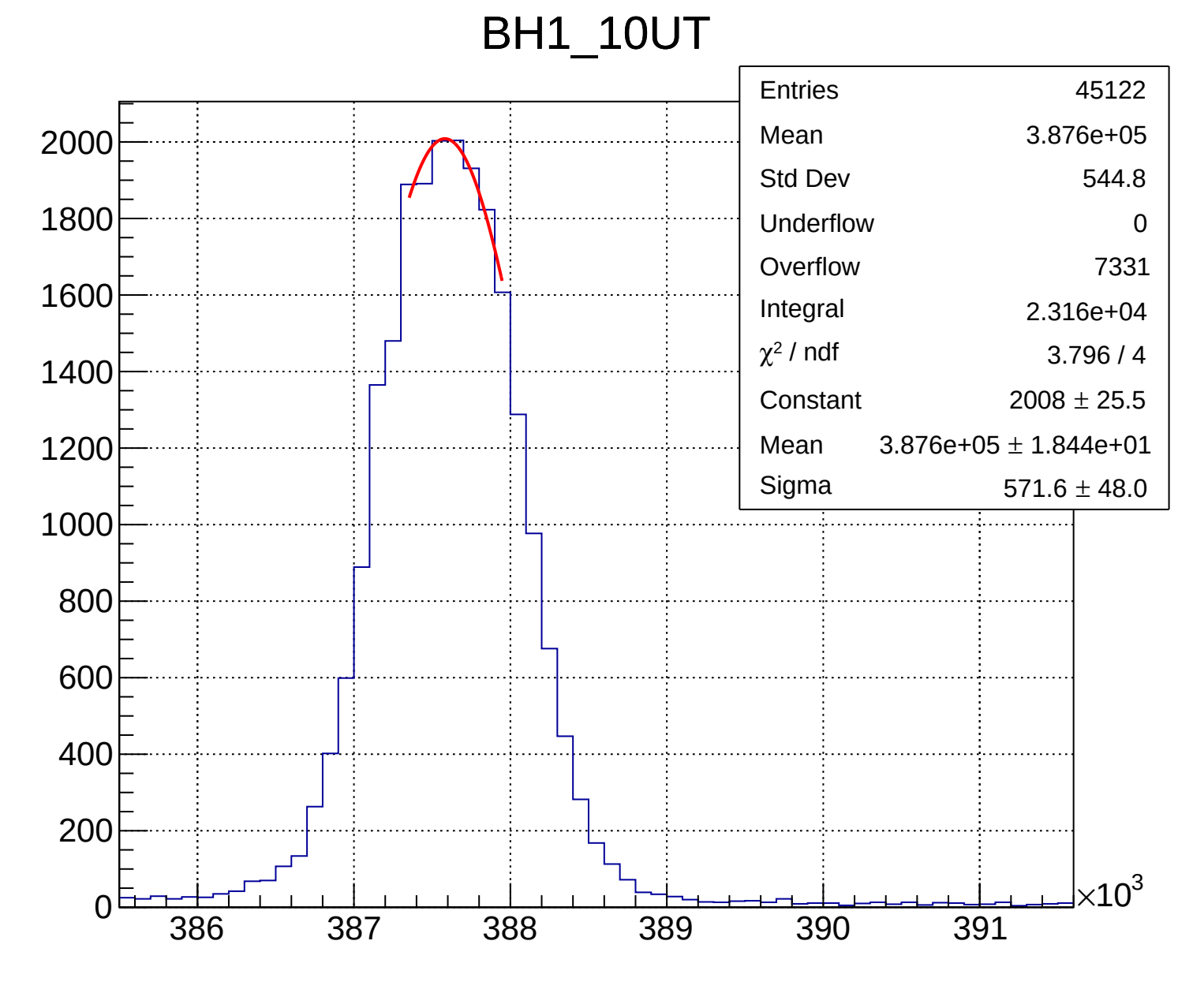
386
387
388
389
390
×10³


BH1_6UT
Entries 72939
Mean 3.874e+05
Std Dev 666.6
Underflow 0
Overflow 1.683e+04
Integral 2.966e+04
χ² / ndf 7.048 / 4
Constant 2419 ± 26.2
Mean 3.874e+05 ± 3.673e+01
Sigma 726.8 ± 89.8
2500
2000
1500
1000
500
0
386
387
388
389
390
391
×10³


BH1_7UT
Entries 71772
Mean 3.878e+05
Std Dev 663.1
Underflow 0
Overflow 1.634e+04
Integral 2.921e+04
χ² / ndf 24.19 / 4
Constant 2419 ± 26.9
Mean 3.877e+05 ± 1.328e+01
Sigma 447.4 ± 21.7
2500
2000
1500
1000
500
0
386
387
388
389
390
391
×10³


BH1_8UT
Entries 83685
Mean 3.854e+05
Std Dev 634.5
Underflow 0
Overflow 1.909e+04
Integral 3.572e+04
χ² / ndf 21.19 / 4
Constant 3037 ± 32.6
Mean 3.853e+05 ± 8.387e+00
Sigma 473.5 ± 22.4
3000
2500
2000
1500
1000
500
0
384
385
386
387
388
389
×10³


BH1_9UT
Entries 71552
Mean 3.876e+05
Std Dev 581.4
Underflow 0
Overflow 1.43e+04
Integral 3.311e+04
χ² / ndf 6.55 / 4
Constant 3020 ± 31.7
Mean 3.876e+05 ± 8.044e+00
Sigma 411.4 ± 15.3
3000
2500
2000
1500
1000
500
0
386
387
388
389
390
391
×10³


BH1_10UT
Entries 45122
Mean 3.876e+05
Std Dev 544.8
Underflow 0
Overflow 7331
Integral 2.316e+04
χ² / ndf 3.796 / 4
Constant 2008 ± 25.5
Mean 3.876e+05 ± 1.844e+01
Sigma 571.6 ± 48.0
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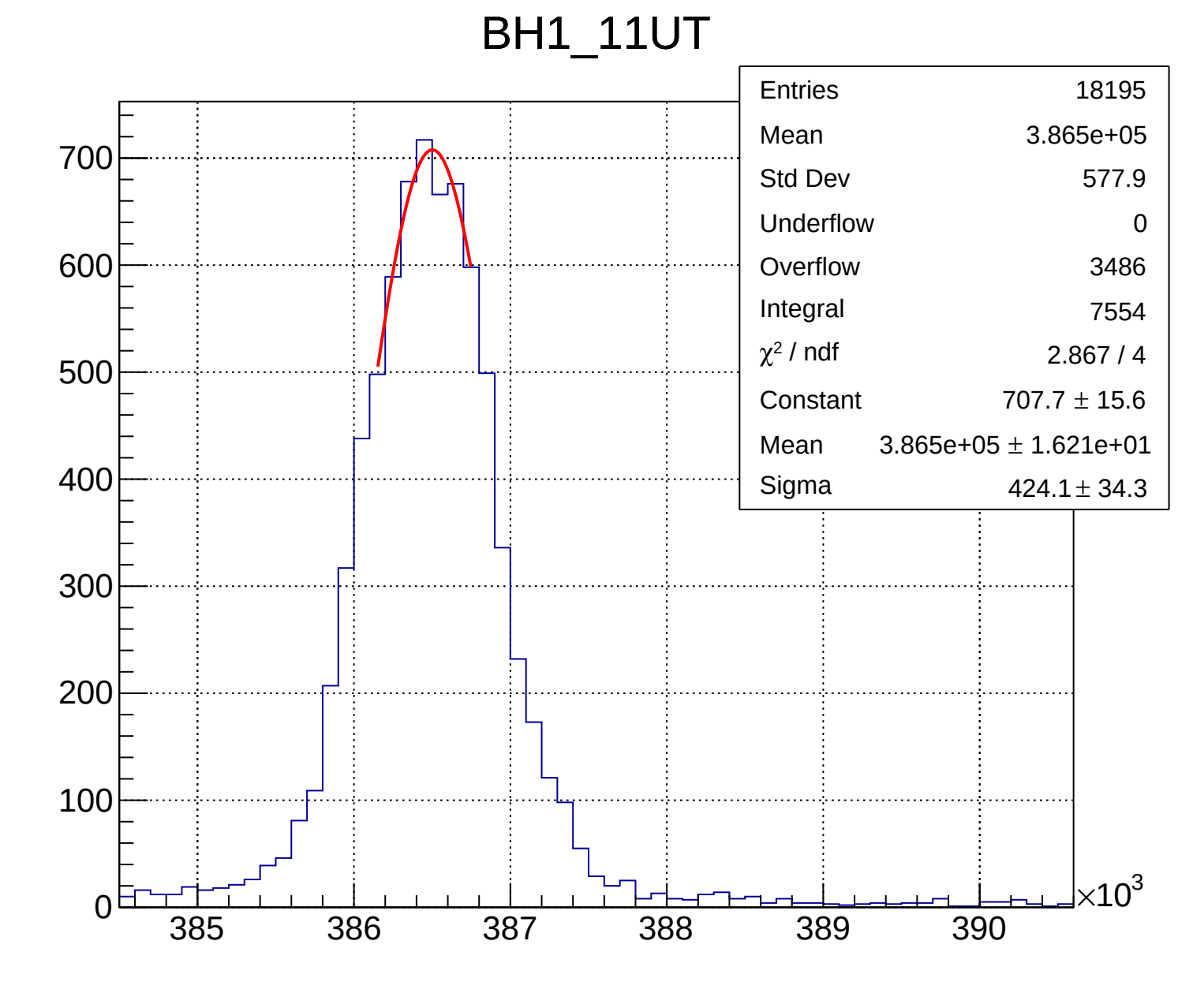
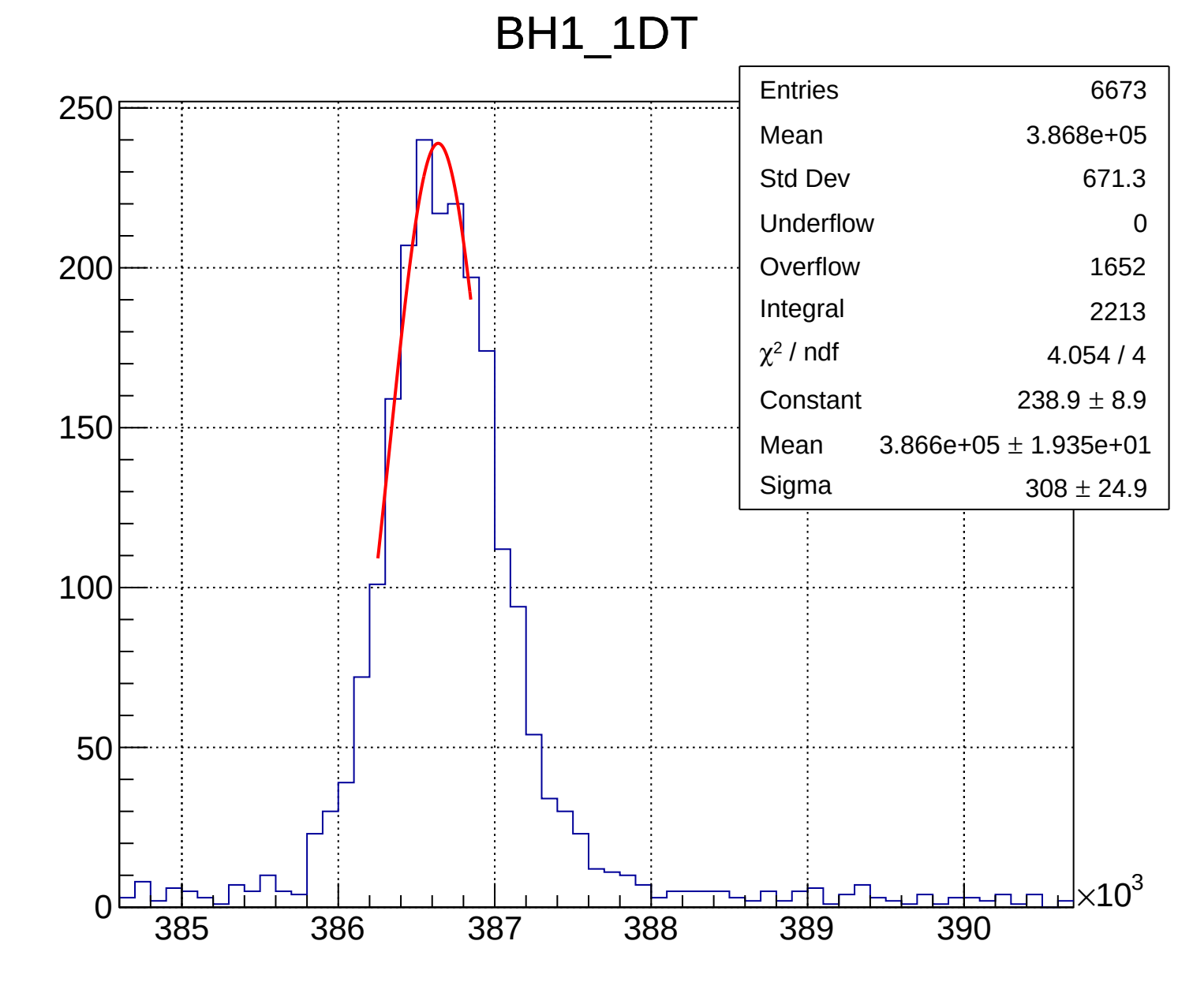
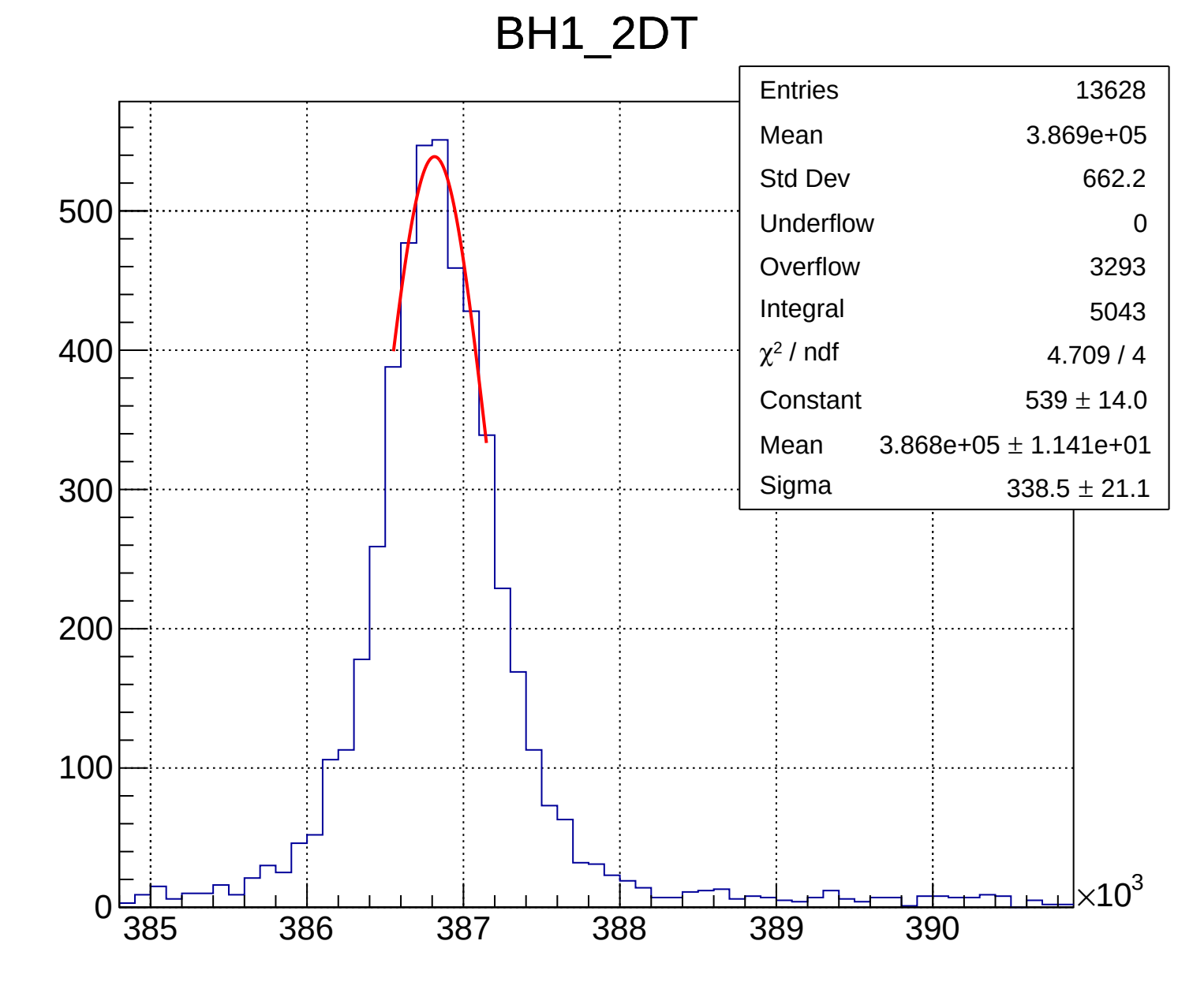
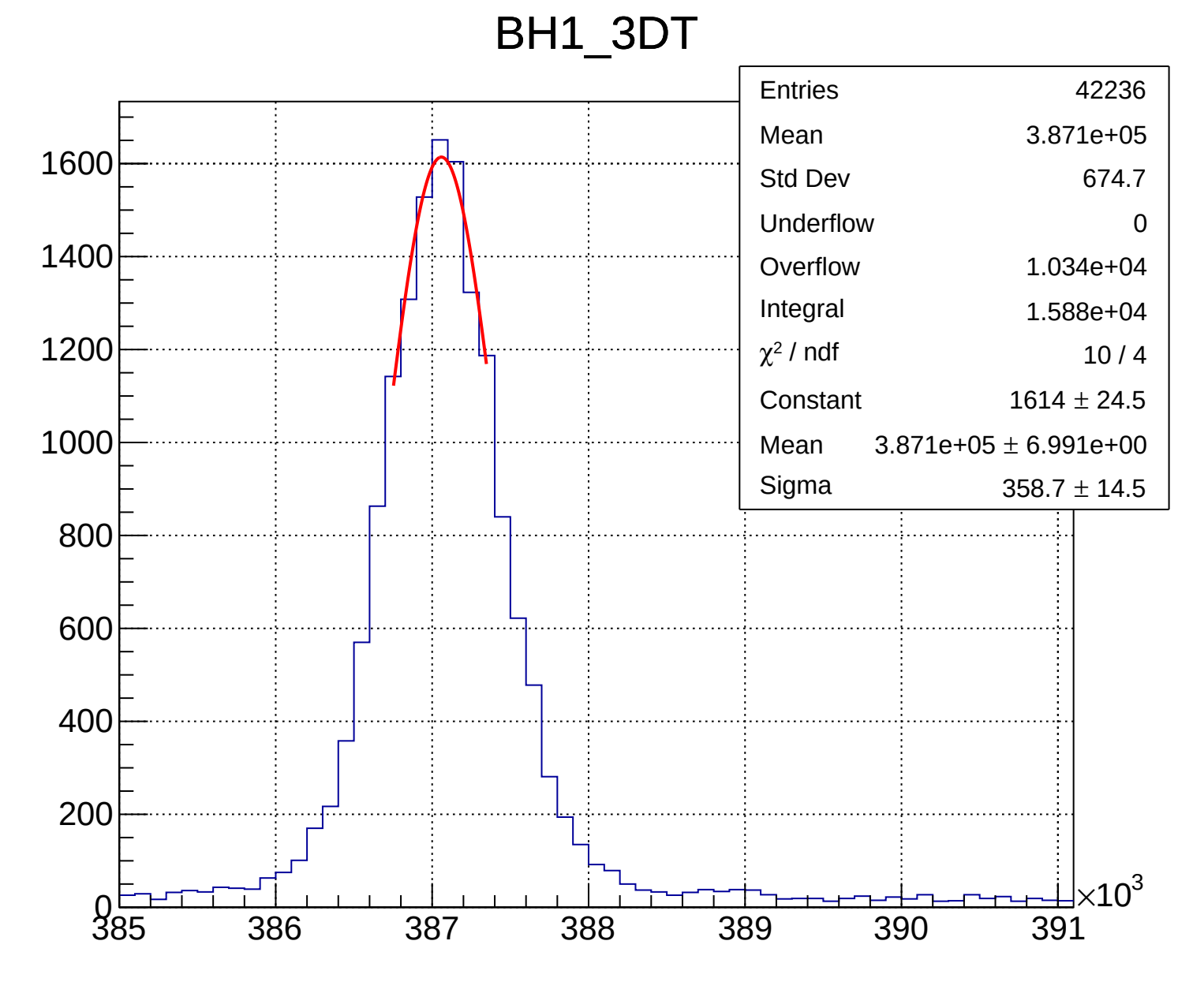
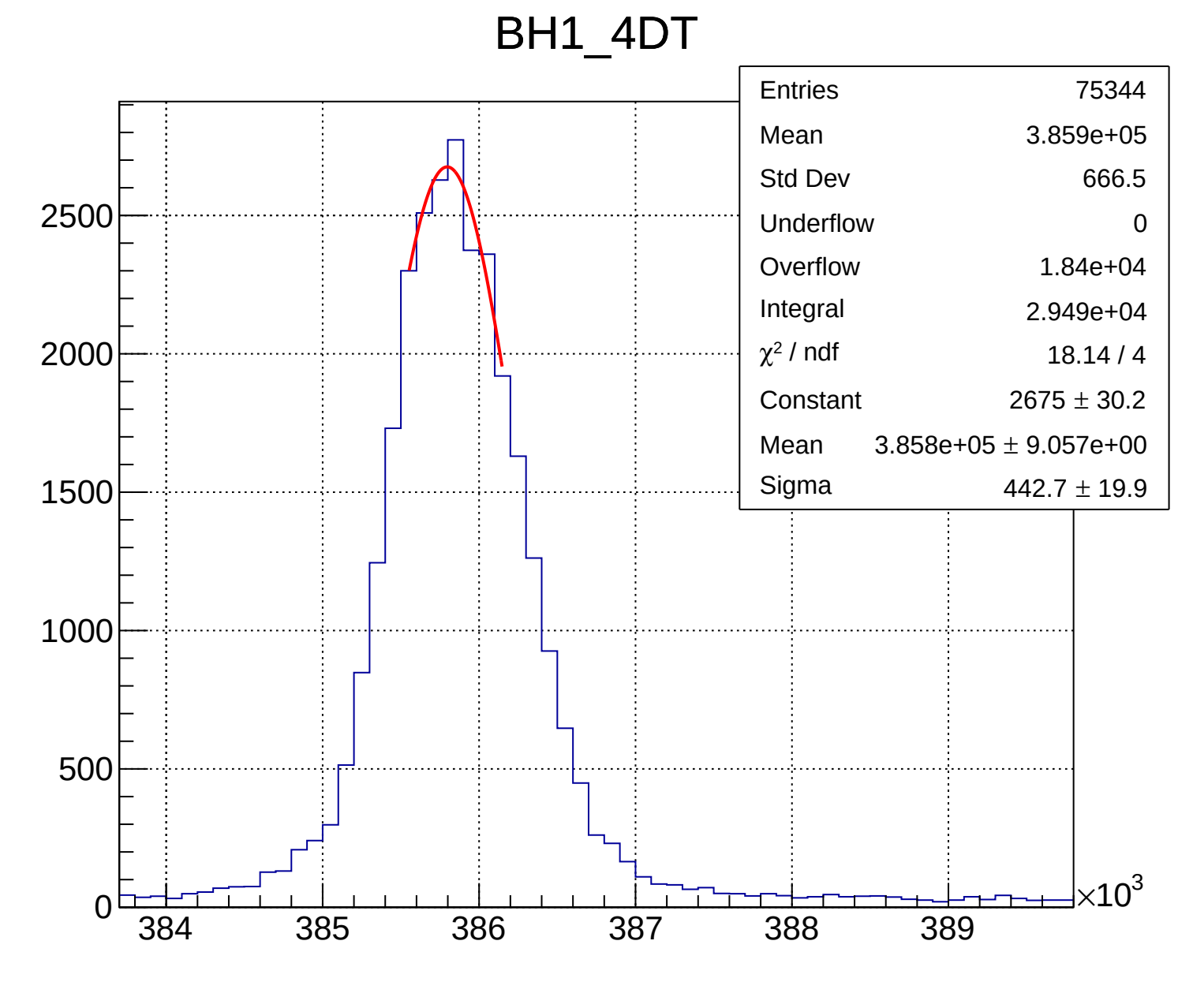
1800
1600
1400
1200
1000
800
600
400
200
0
386
387
388
389
390
391
×10³

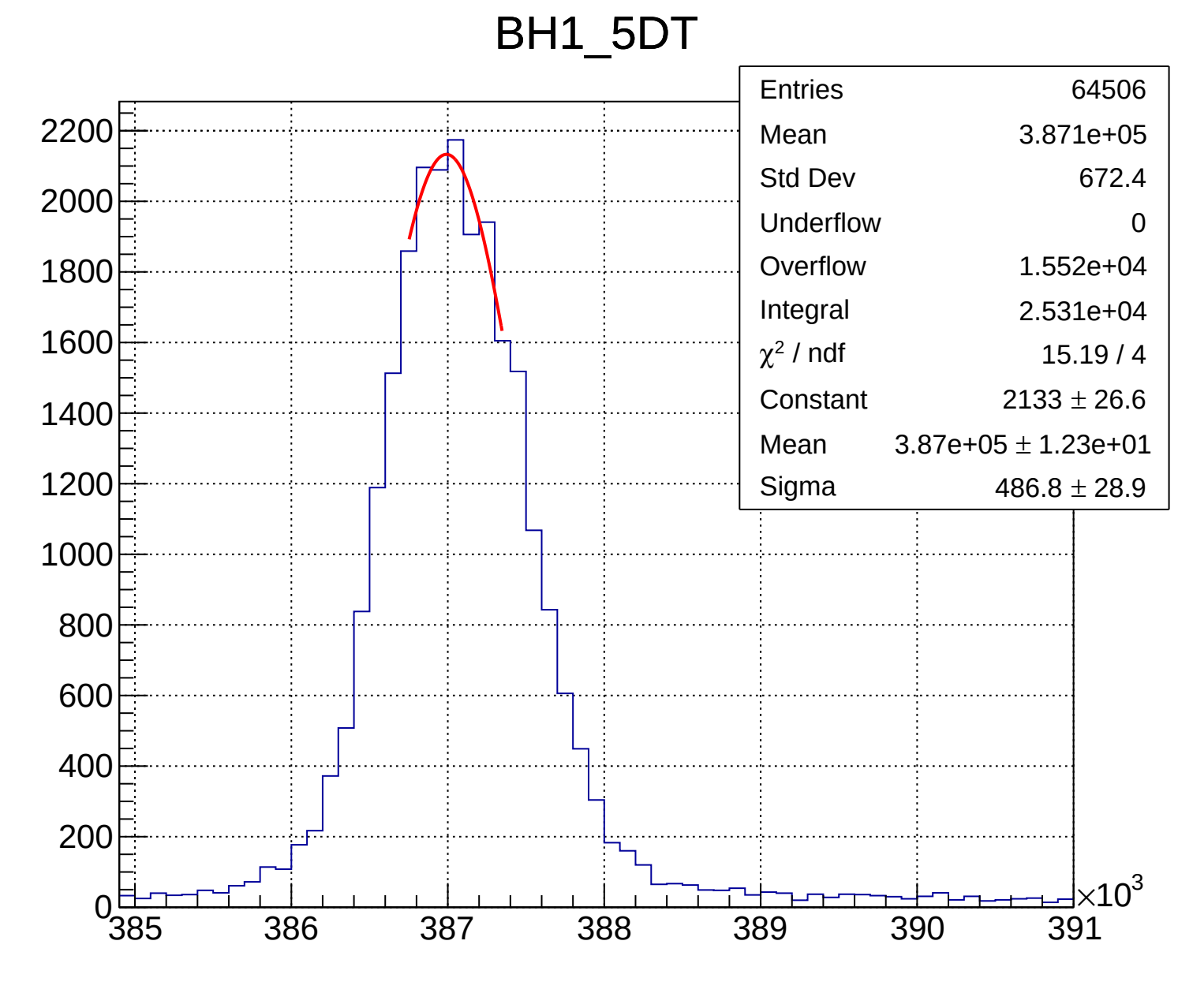

BH1_11UT
Entries 18195
Mean 3.865e+05
Std Dev 577.9
Underflow 0
Overflow 3486
Integral 7554
χ² / ndf 2.867 / 4
Constant 707.7 ± 15.6
Mean 3.865e+05 ± 1.621e+01
Sigma 424.1 ± 34.3
700
600
500
400
300
200
100
0
385
386
387
388
389
390
×10³


BH1_1DT
Entries 6673
Mean 3.868e+05
Std Dev 671.3
Underflow 0
Overflow 1652
Integral 2213
χ² / ndf 4.054 / 4
Constant 238.9 ± 8.9
Mean 3.866e+05 ± 1.935e+01
Sigma 308 ± 24.9
250
200
150
100
50
0
385
386
387
388
389
390
×10³


BH1_2DT
Entries 13628
Mean 3.869e+05
Std Dev 662.2
Underflow 0
Overflow 3293
Integral 5043
χ² / ndf 4.709 / 4
Constant 539 ± 14.0
Mean 3.868e+05 ± 1.141e+01
Sigma 338.5 ± 21.1
500
400
300
200
100
0
385
386
387
388
389
390
×10³


BH1_3DT
Entries 42236
Mean 3.871e+05
Std Dev 674.7
Underflow 0
Overflow 1.034e+04
Integral 1.588e+04
χ² / ndf 10 / 4
Constant 1614 ± 24.5
Mean 3.871e+05 ± 6.991e+00
Sigma 358.7 ± 14.5
1600
1400
1200
1000
800
600
400
200
0
385
386
387
388
389
390
391
×10³


BH1_4DT
Entries 75344
Mean 3.859e+05
Std Dev 666.5
Underflow 0
Overflow 1.84e+04
Integral 2.949e+04
χ² / ndf 18.14 / 4
Constant 2675 ± 30.2
Mean 3.858e+05 ± 9.057e+00
Sigma 442.7 ± 19.9
2500
2000
1500
1000
500
0
384
385
386
387
388
389
×10³


BH1_5DT
Entries 64506
Mean 3.871e+05
Std Dev 672.4
Underflow 0
Overflow 1.552e+04
Integral 2.531e+04
χ² / ndf 15.19 / 4
Constant 2133 ± 26.6
Mean 3.87e+05 ± 1.23e+01
Sigma 486.8 ± 28.9
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
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386
387
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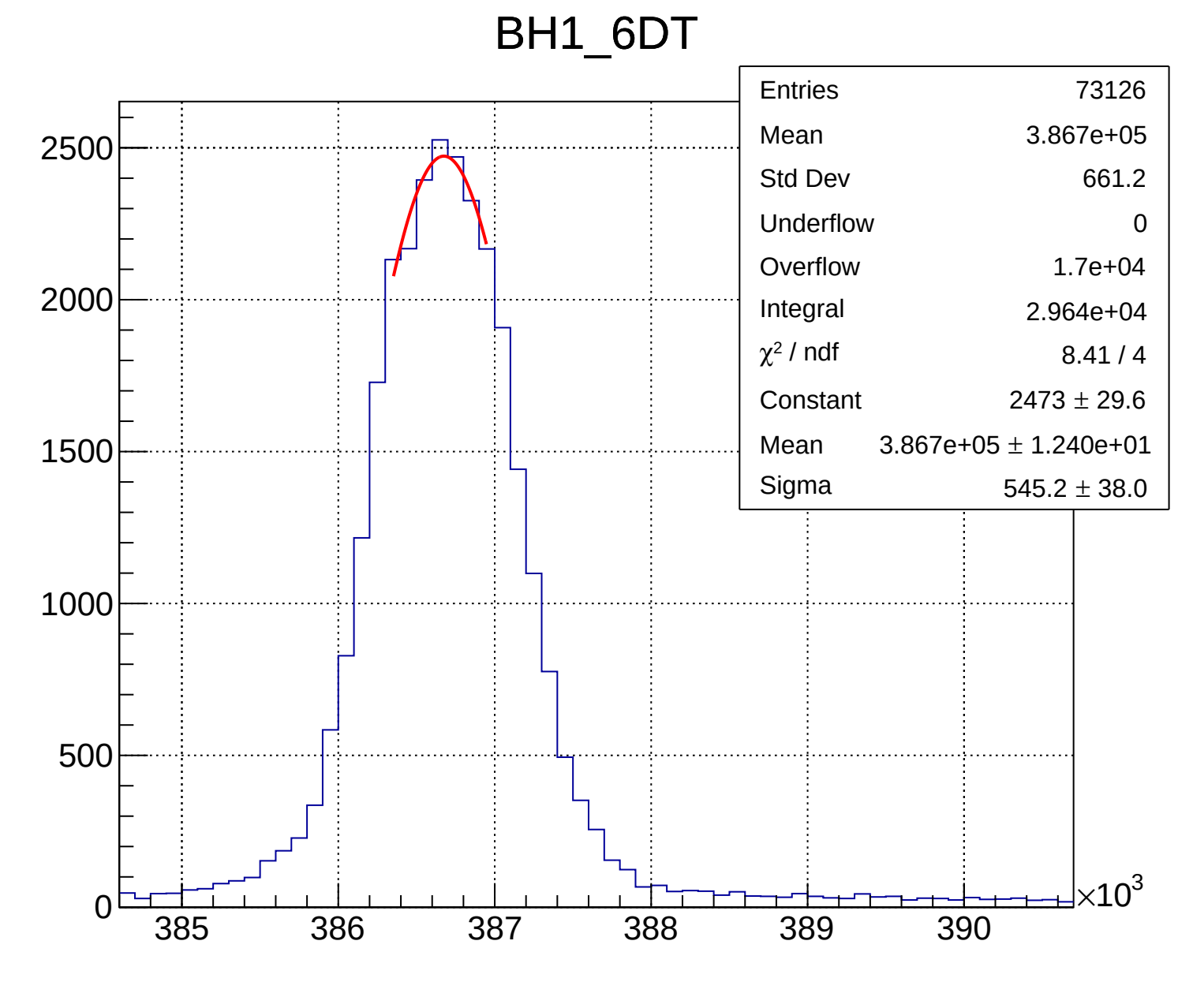
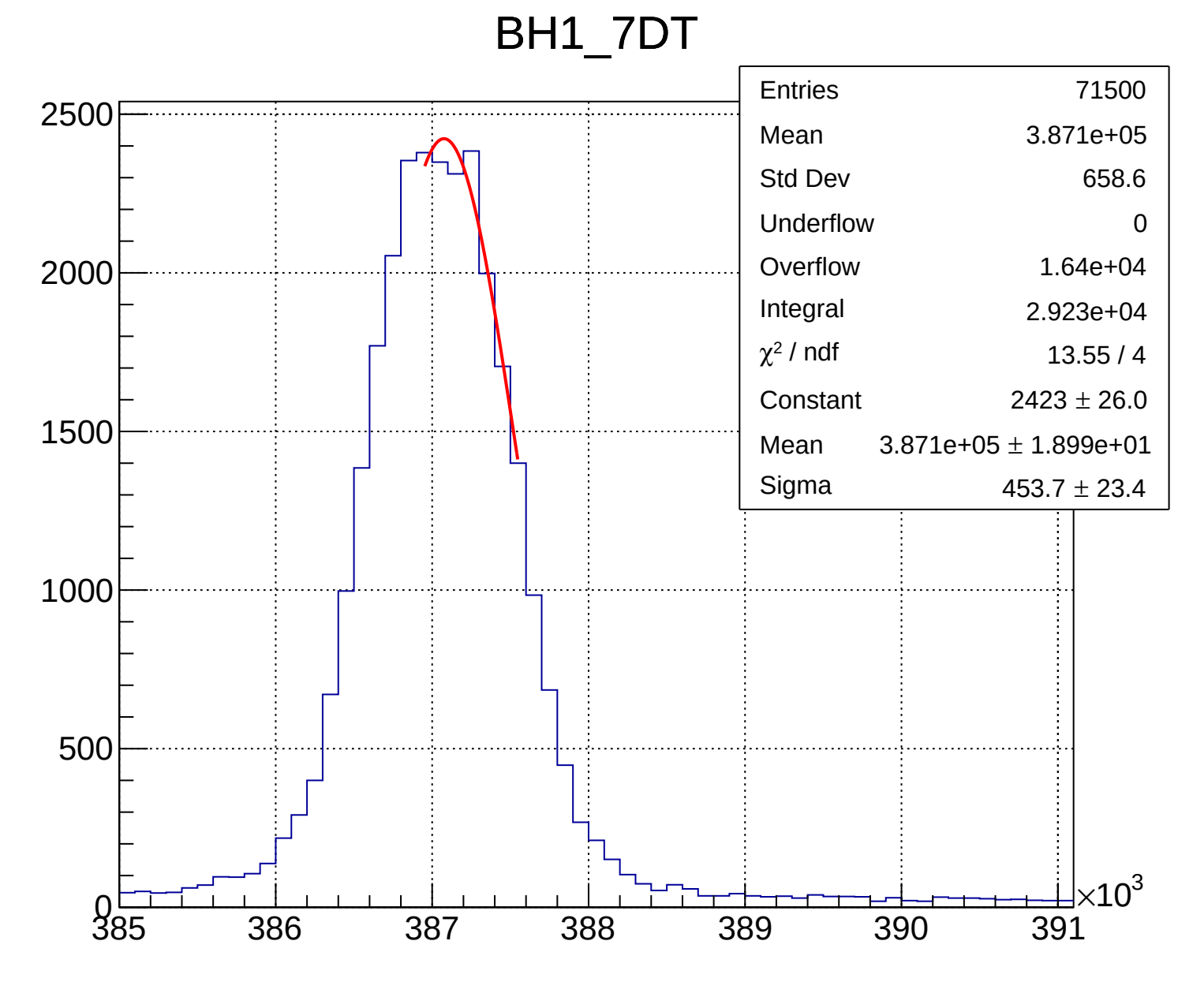
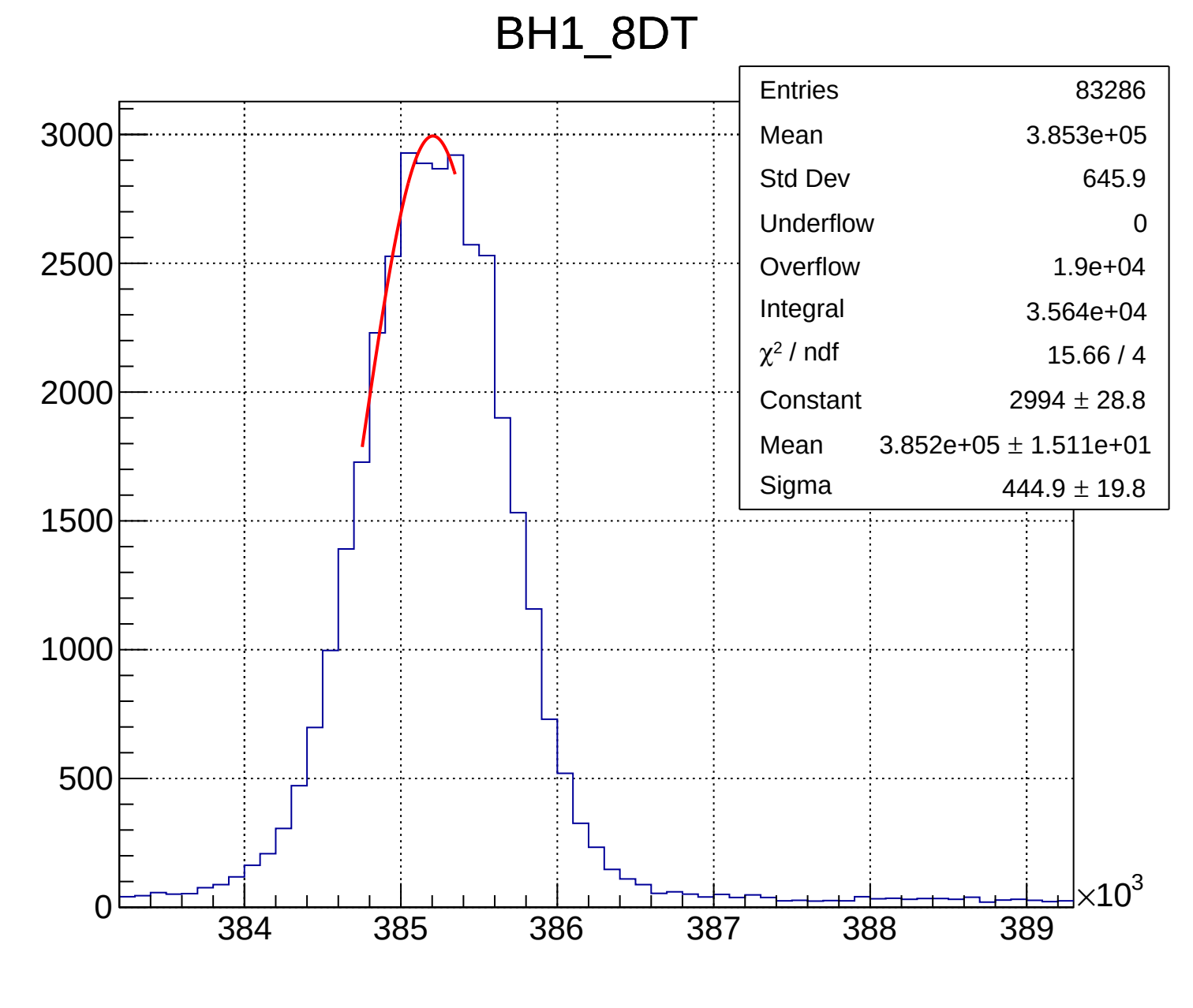
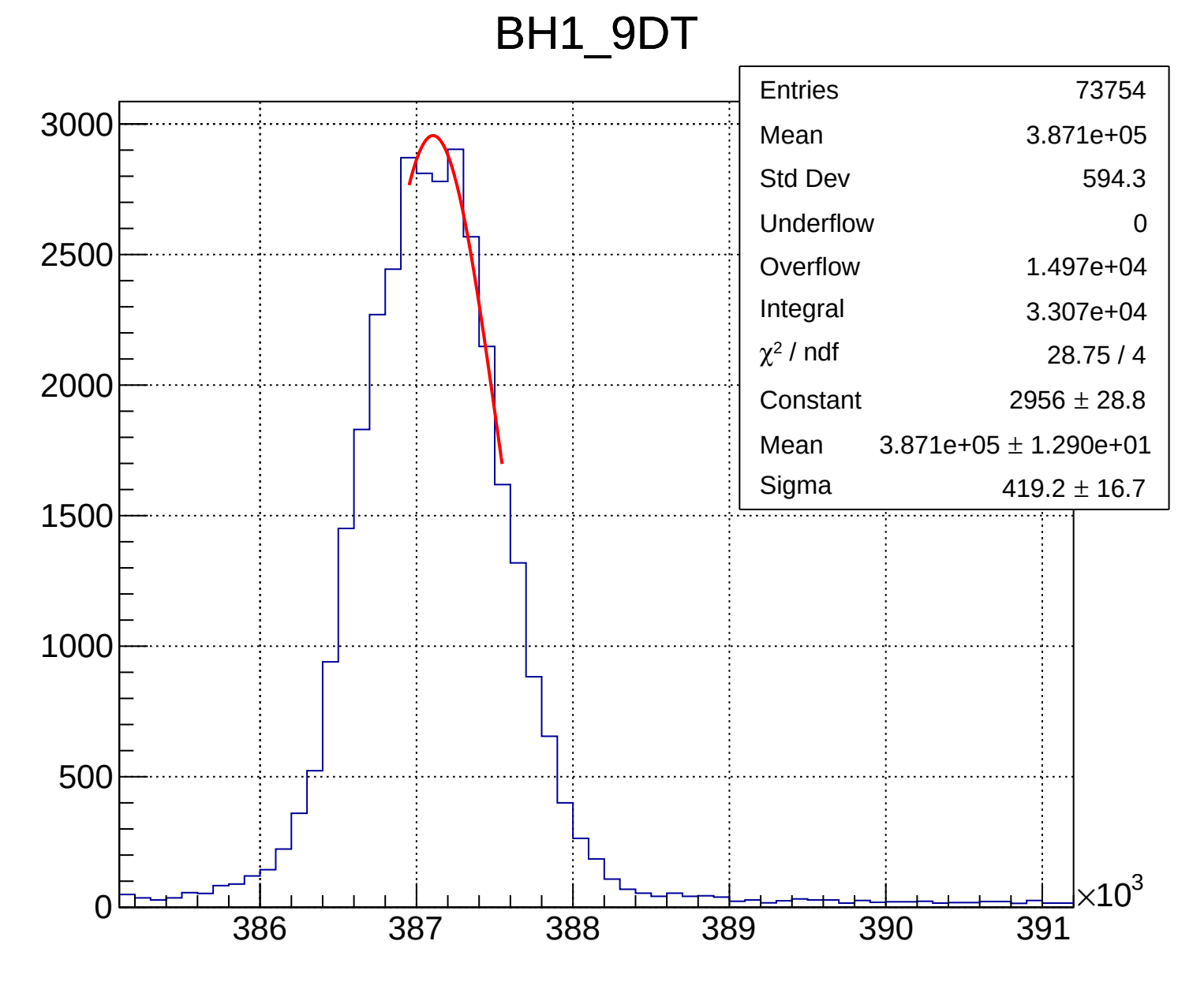
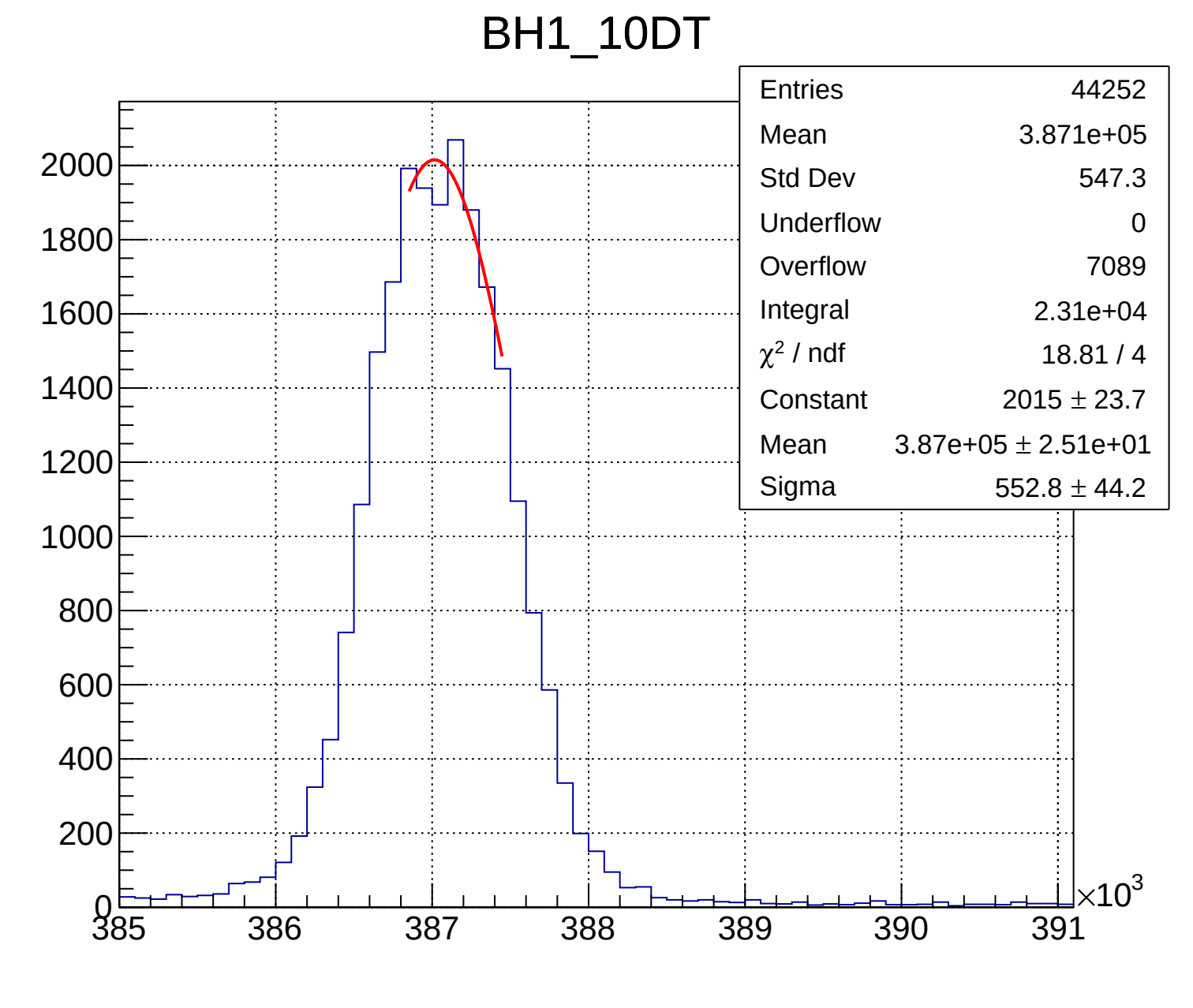
390
391
×10³

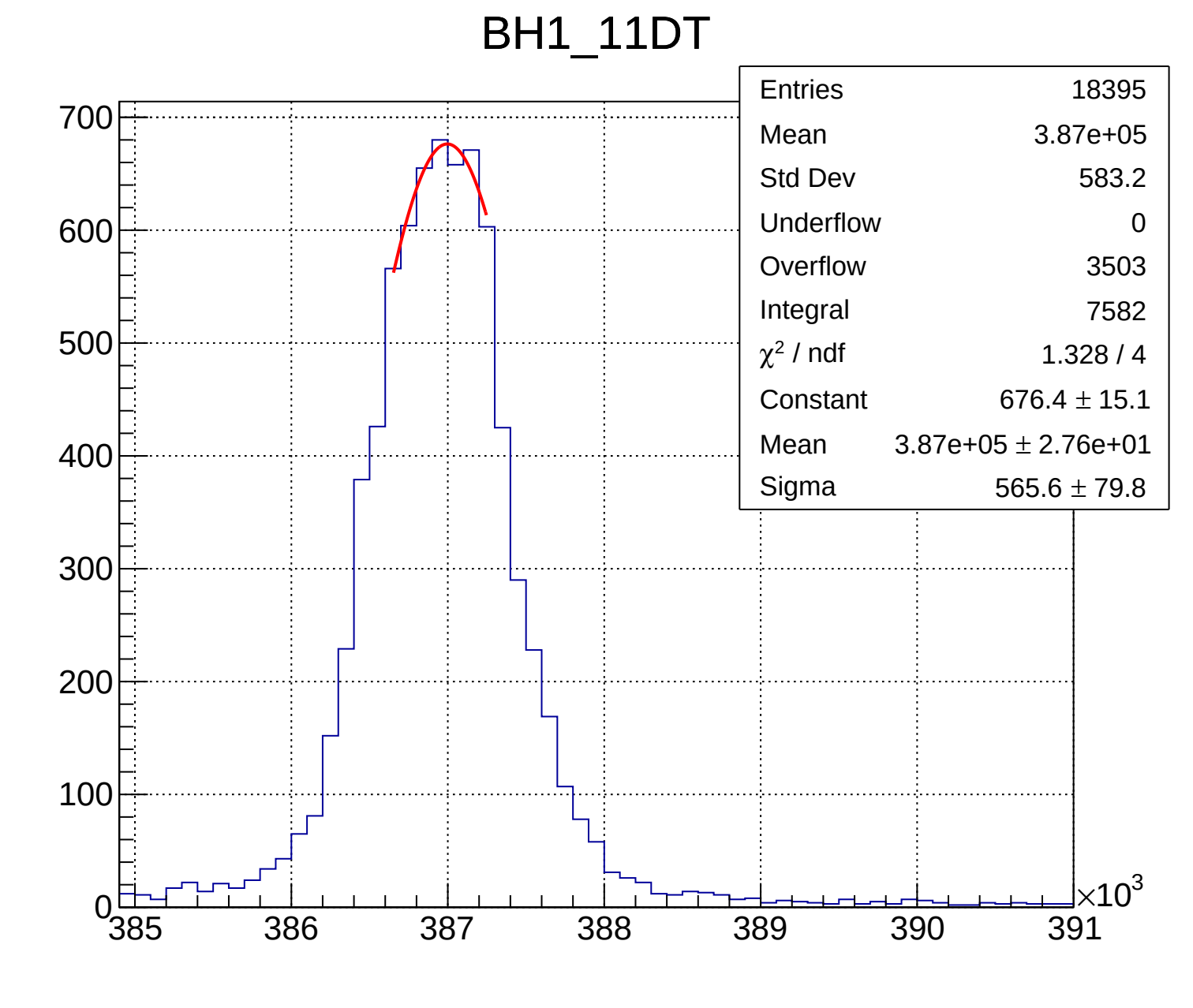

BH1_6DT
Entries 73126
Mean 3.867e+05
Std Dev 661.2
Underflow 0
Overflow 1.7e+04
Integral 2.964e+04
χ² / ndf 8.41 / 4
Constant 2473 ± 29.6
Mean 3.867e+05 ± 1.240e+01
Sigma 545.2 ± 38.0
2500
2000
1500
1000
500
0
385
386
387
388
389
390
×10³

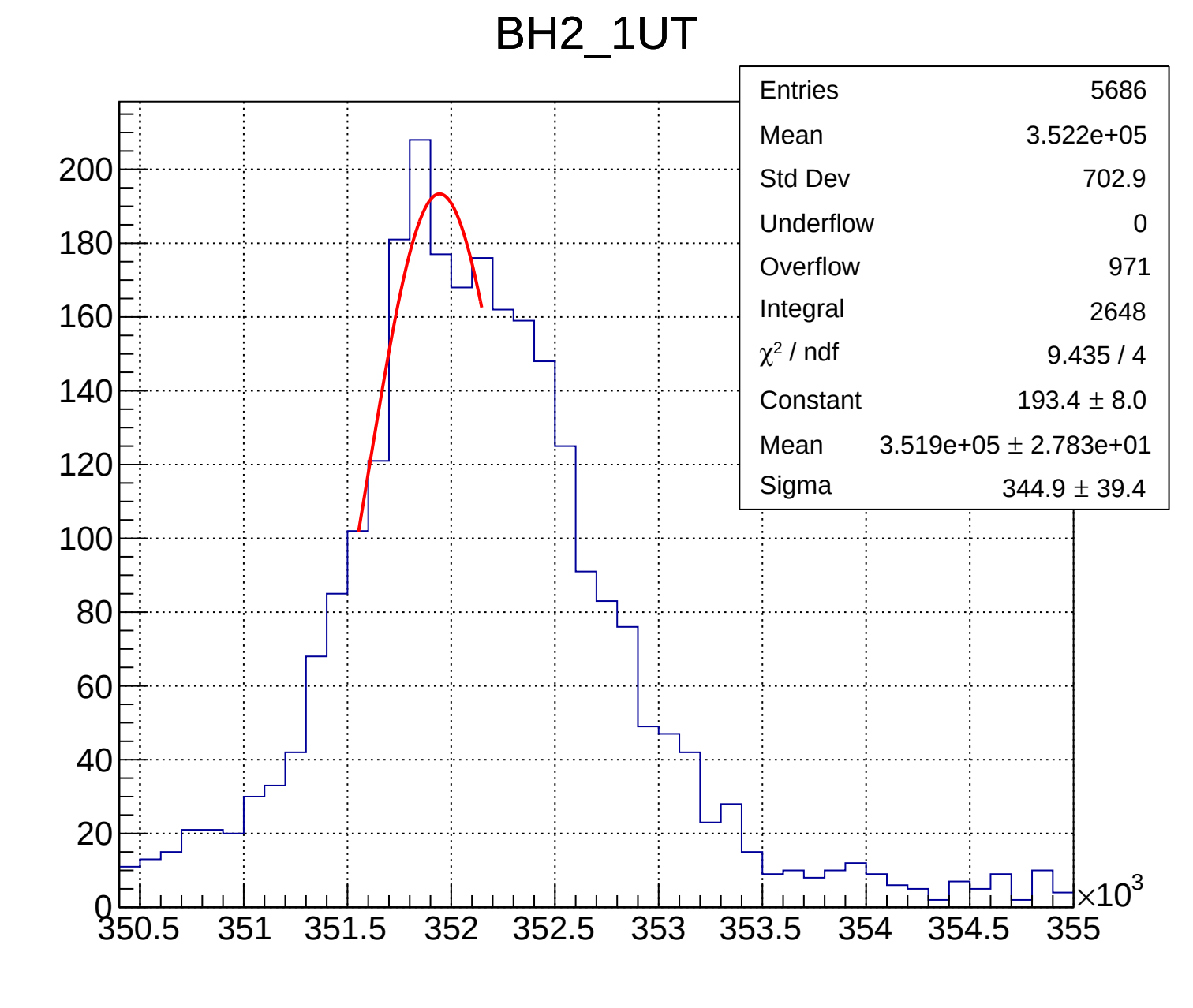

BH1_7DT
Entries 71500
Mean 3.871e+05
Std Dev 658.6
Underflow 0
Overflow 1.64e+04
Integral 2.923e+04
χ² / ndf 13.55 / 4
Constant 2423 ± 26.0
Mean 3.871e+05 ± 1.899e+01
Sigma 453.7 ± 23.4
2500
2000
1500
1000
500
0
385
386
387
388
389
390
391
×10³


BH1_8DT
Entries 83286
Mean 3.853e+05
Std Dev 645.9
Underflow 0
Overflow 1.9e+04
Integral 3.564e+04
χ² / ndf 15.66 / 4
Constant 2994 ± 28.8
Mean 3.852e+05 ± 1.511e+01
Sigma 444.9 ± 19.8
3000
2500
2000
1500
1000
500
0
384
385
386
387
388
389
×10³


BH1_9DT
Entries 73754
Mean 3.871e+05
Std Dev 594.3
Underflow 0
Overflow 1.497e+04
Integral 3.307e+04
χ² / ndf 28.75 / 4
Constant 2956 ± 28.8
Mean 3.871e+05 ± 1.290e+01
Sigma 419.2 ± 16.7
3000
2500
2000
1500
1000
500
0
386
387
388
389
390
391
×10³


BH1_10DT
Entries 44252
Mean 3.871e+05
Std Dev 547.3
Underflow 0
Overflow 7089
Integral 2.31e+04
χ² / ndf 18.81 / 4
Constant 2015 ± 23.7
Mean 3.87e+05 ± 2.51e+01
Sigma 552.8 ± 44.2
2000
1800
1600
1400
1200
1000
800
600
400
200
0
385
386
387
388
389
390
391
×10³


BH1_11DT
Entries 18395
Mean 3.87e+05
Std Dev 583.2
Underflow 0
Overflow 3503
Integral 7582
χ² / ndf 1.328 / 4
Constant 676.4 ± 15.1
Mean 3.87e+05 ± 2.76e+01
Sigma 565.6 ± 79.8
700
600
500
400
300
200
100
0
385
386
387
388
389
390
391
×10³


BH2_1UT
Entries 5686
Mean 3.522e+05
Std Dev 702.9
Underflow 0
Overflow 971
Integral 2648
χ² / ndf 9.435 / 4
Constant 193.4 ± 8.0
Mean 3.519e+05 ± 2.783e+01
Sigma 344.9 ± 39.4
200
180
160
140
120
100
80
60
40
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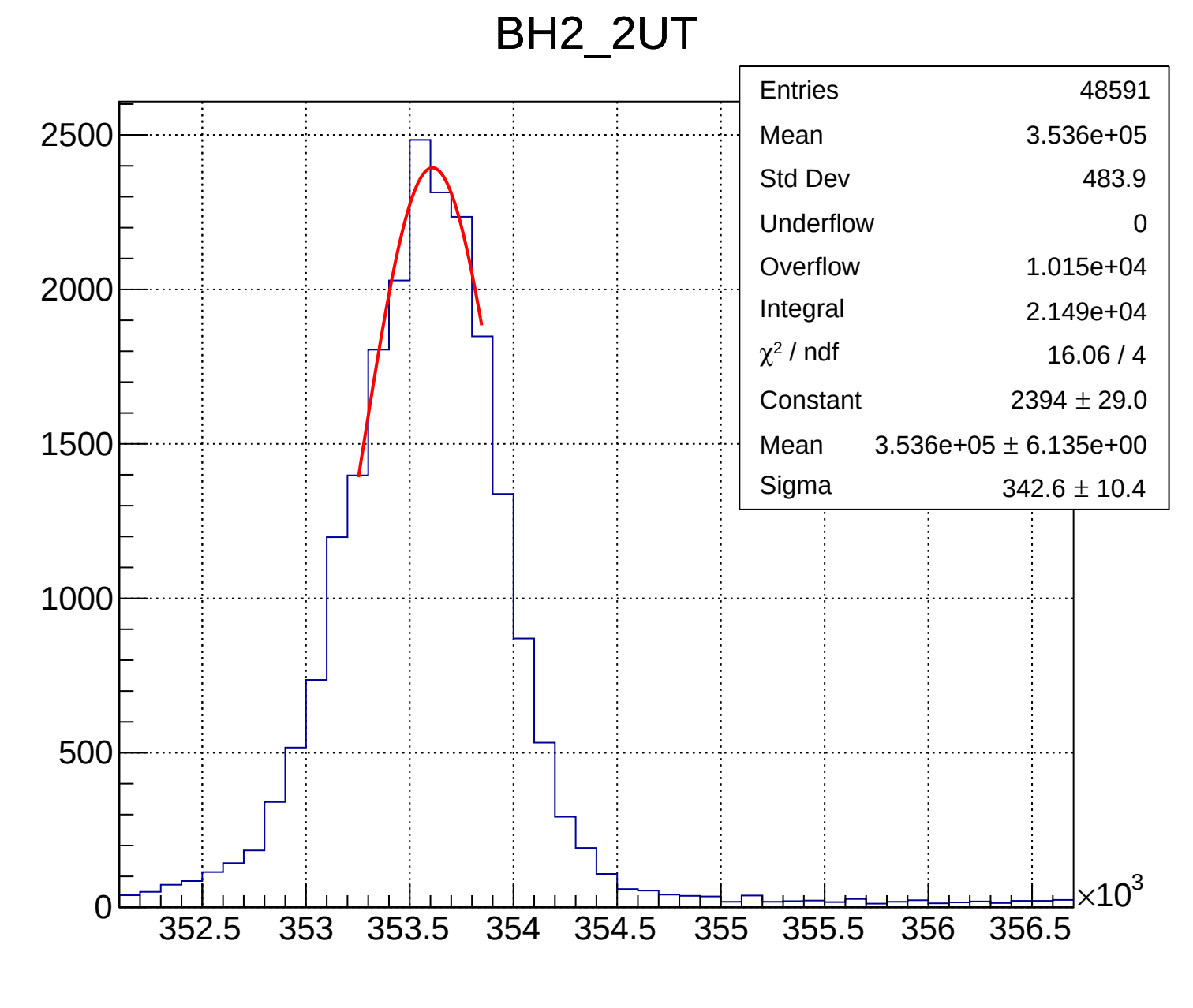
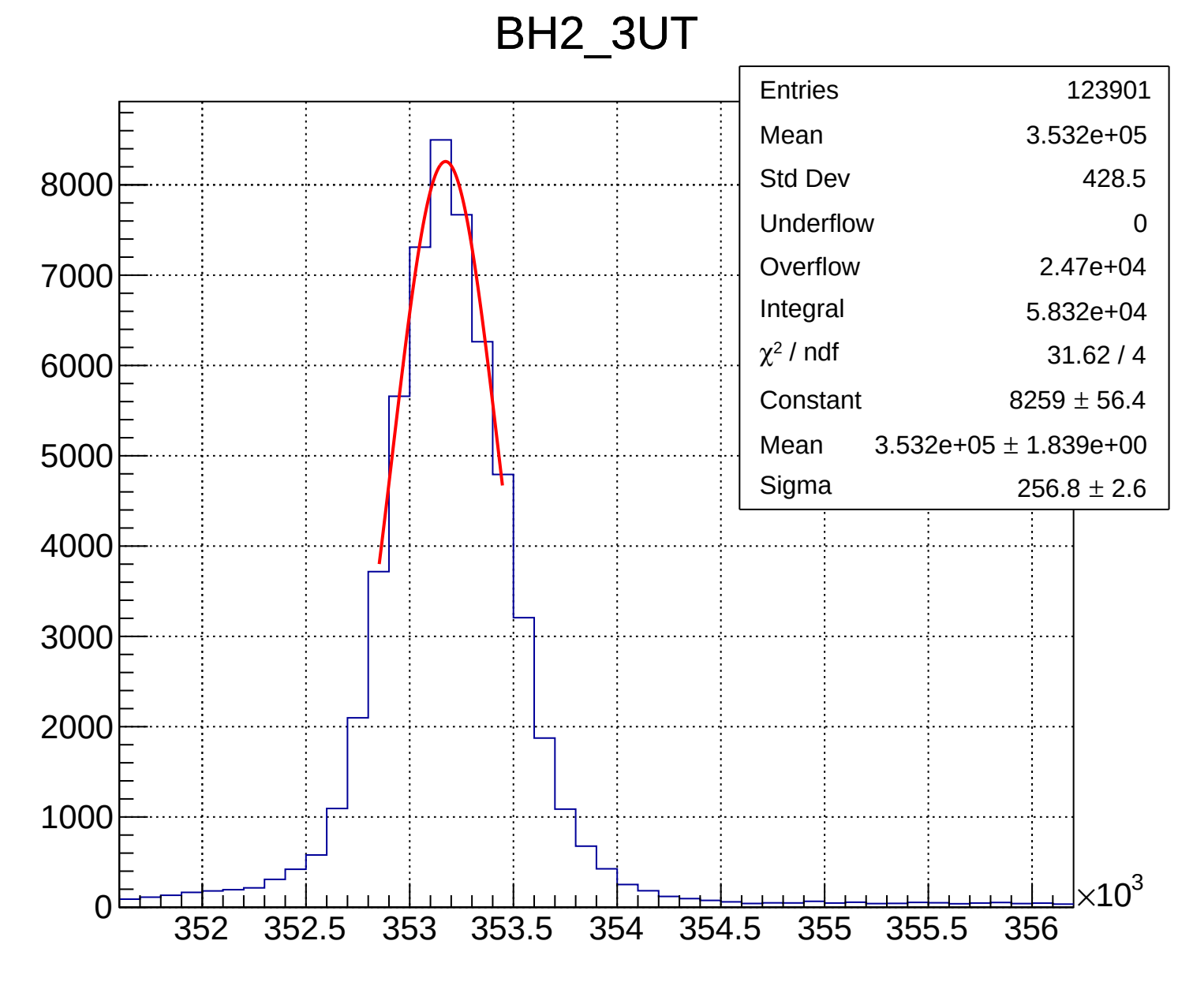
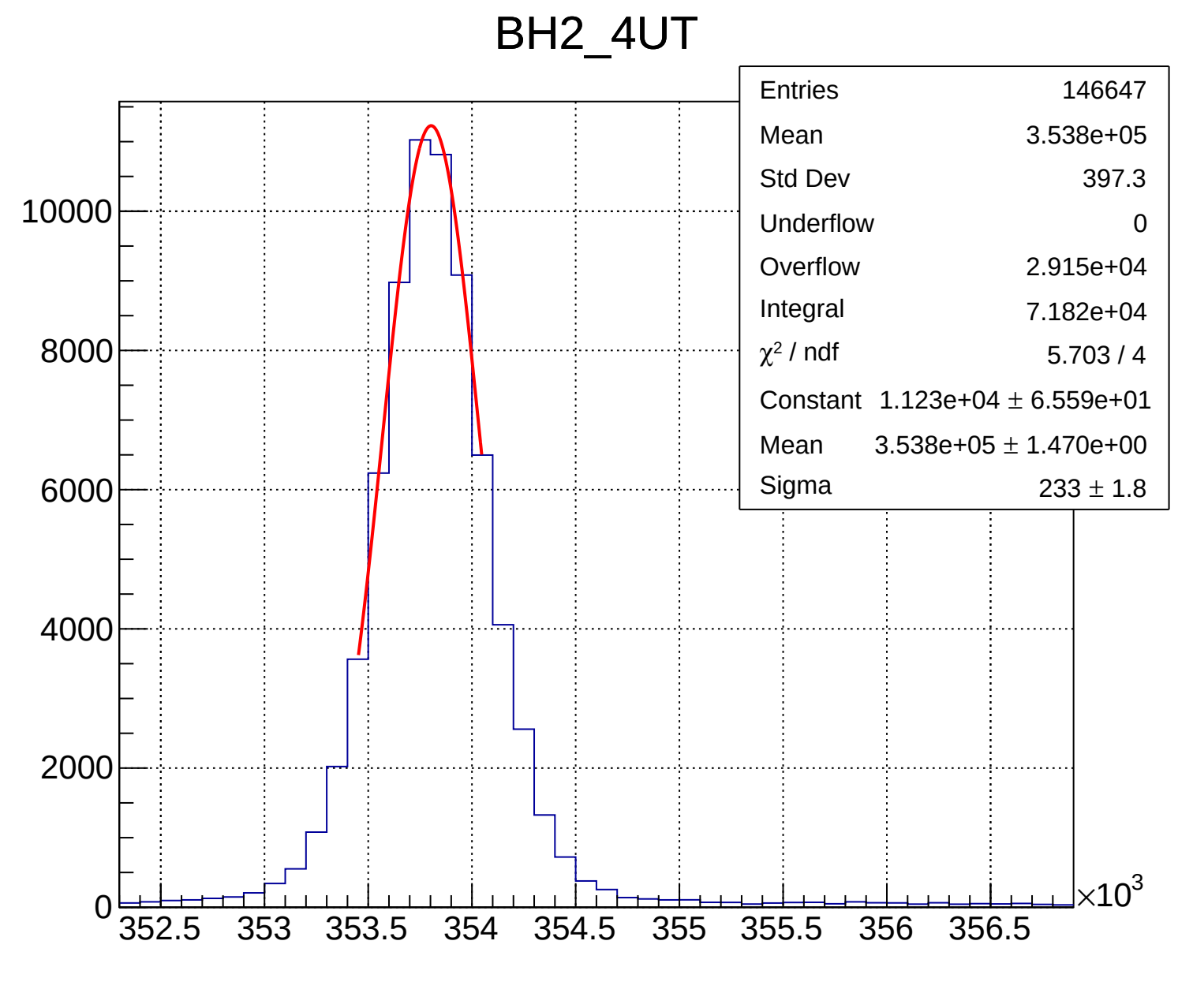
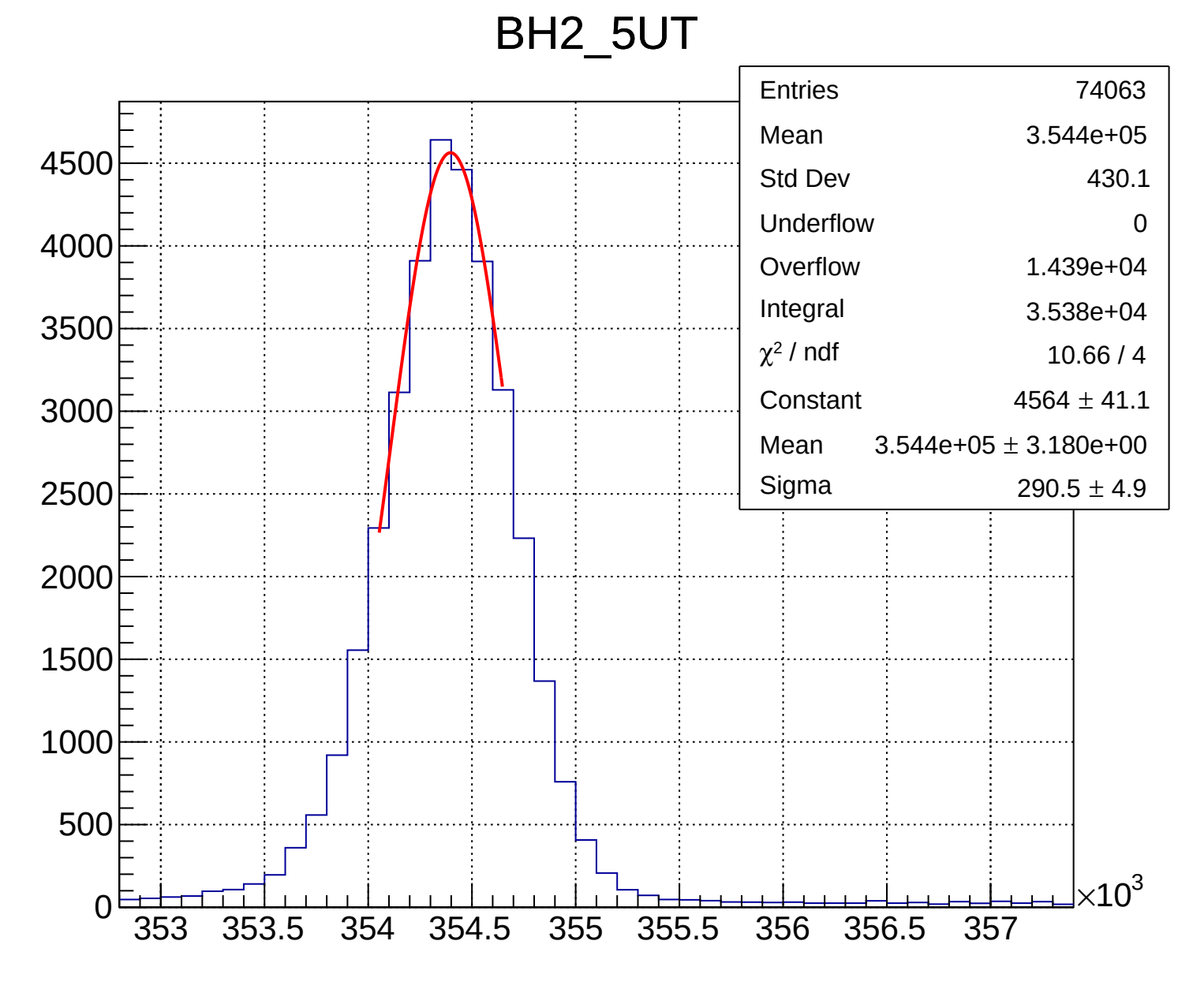
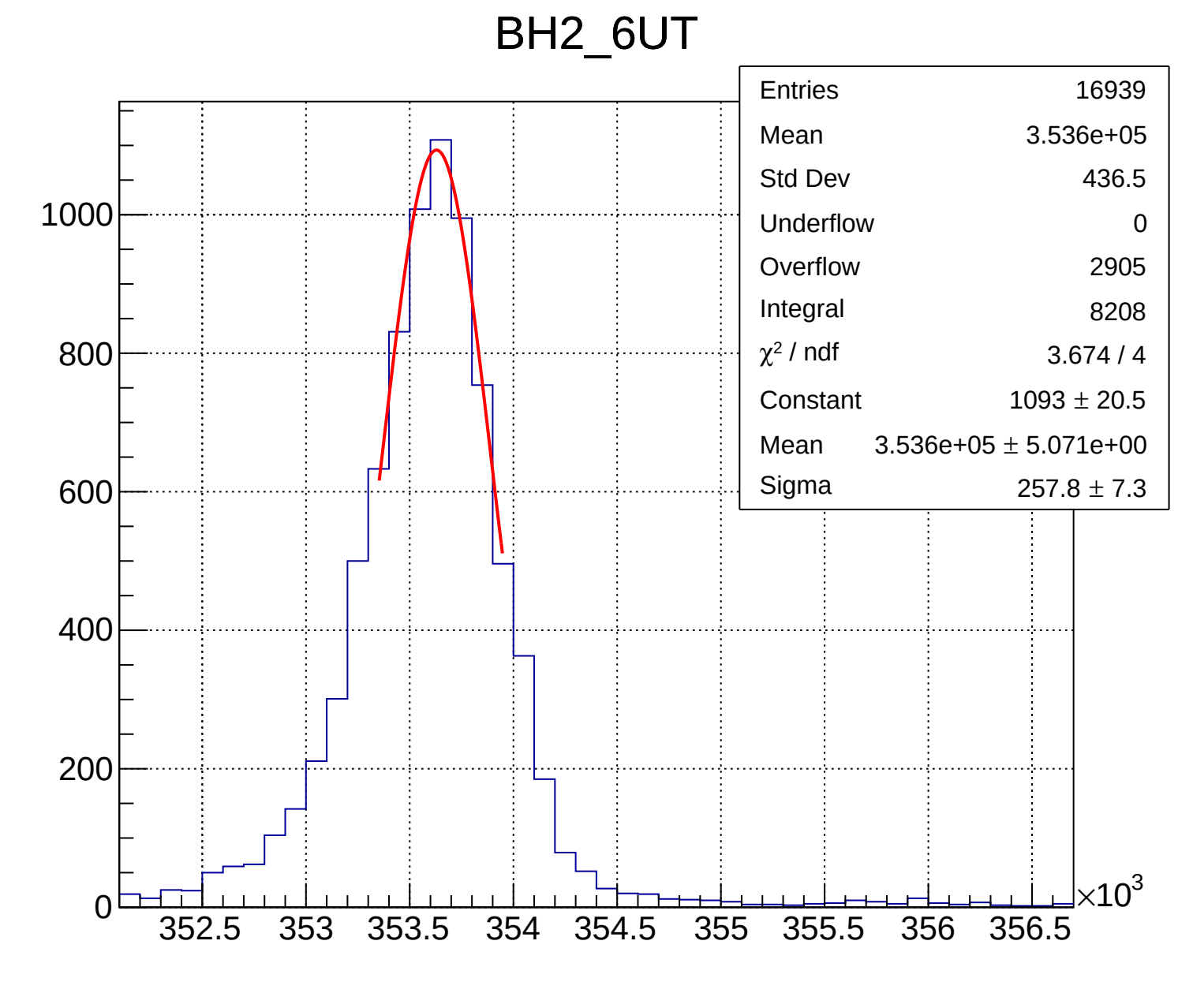
0
350.5
351
351.5
352
352.5
353
353.5
354
354.5
355
×10³

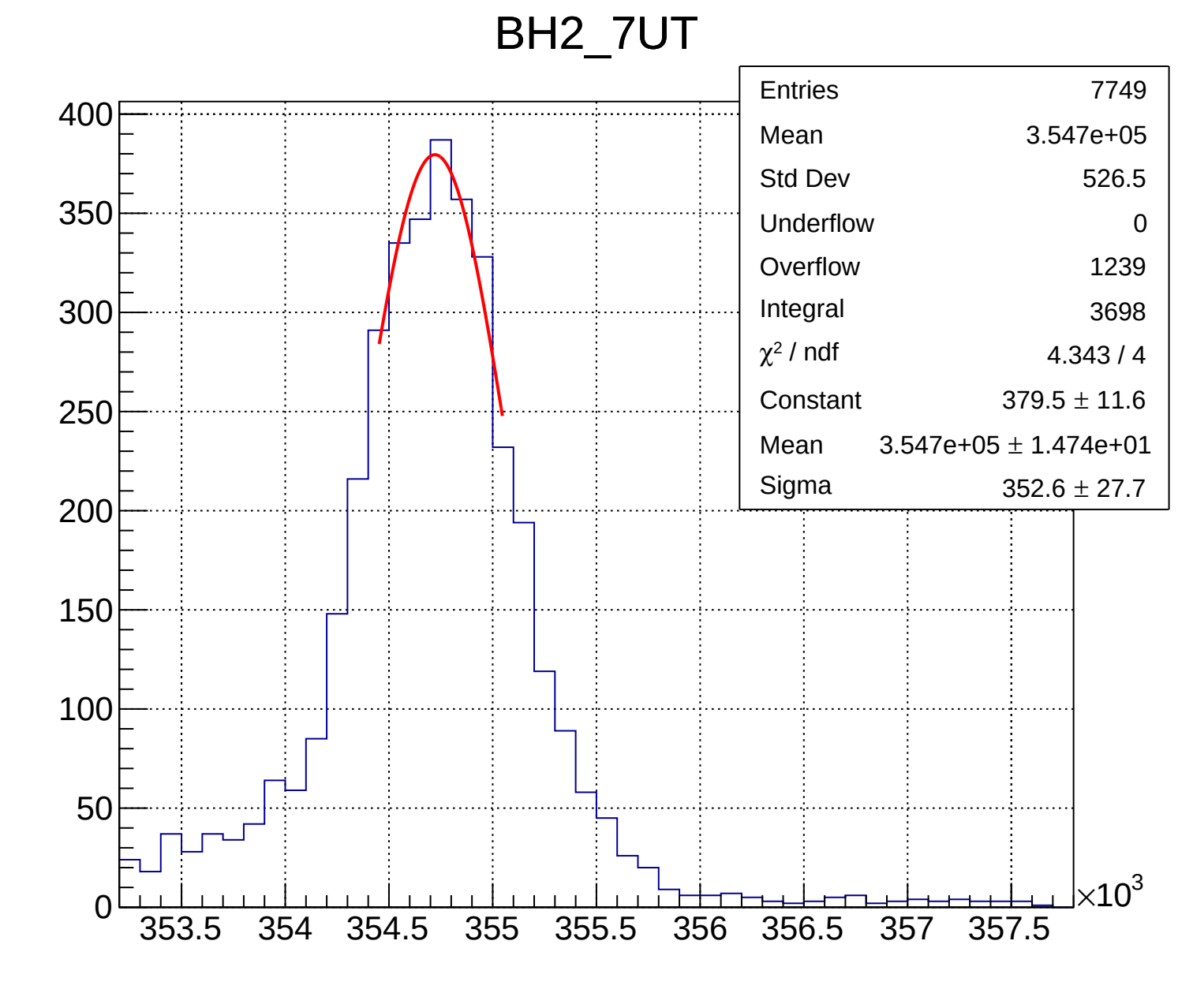

BH2_2UT
Entries 48591
Mean 3.536e+05
Std Dev 483.9
Underflow 0
Overflow 1.015e+04
Integral 2.149e+04
χ² / ndf 16.06 / 4
Constant 2394 ± 29.0
Mean 3.536e+05 ± 6.135e+00
Sigma 342.6 ± 10.4
2500
2000
1500
1000
500
0
352.5
353
353.5
354
354.5
355
355.5
356
356.5
×10³

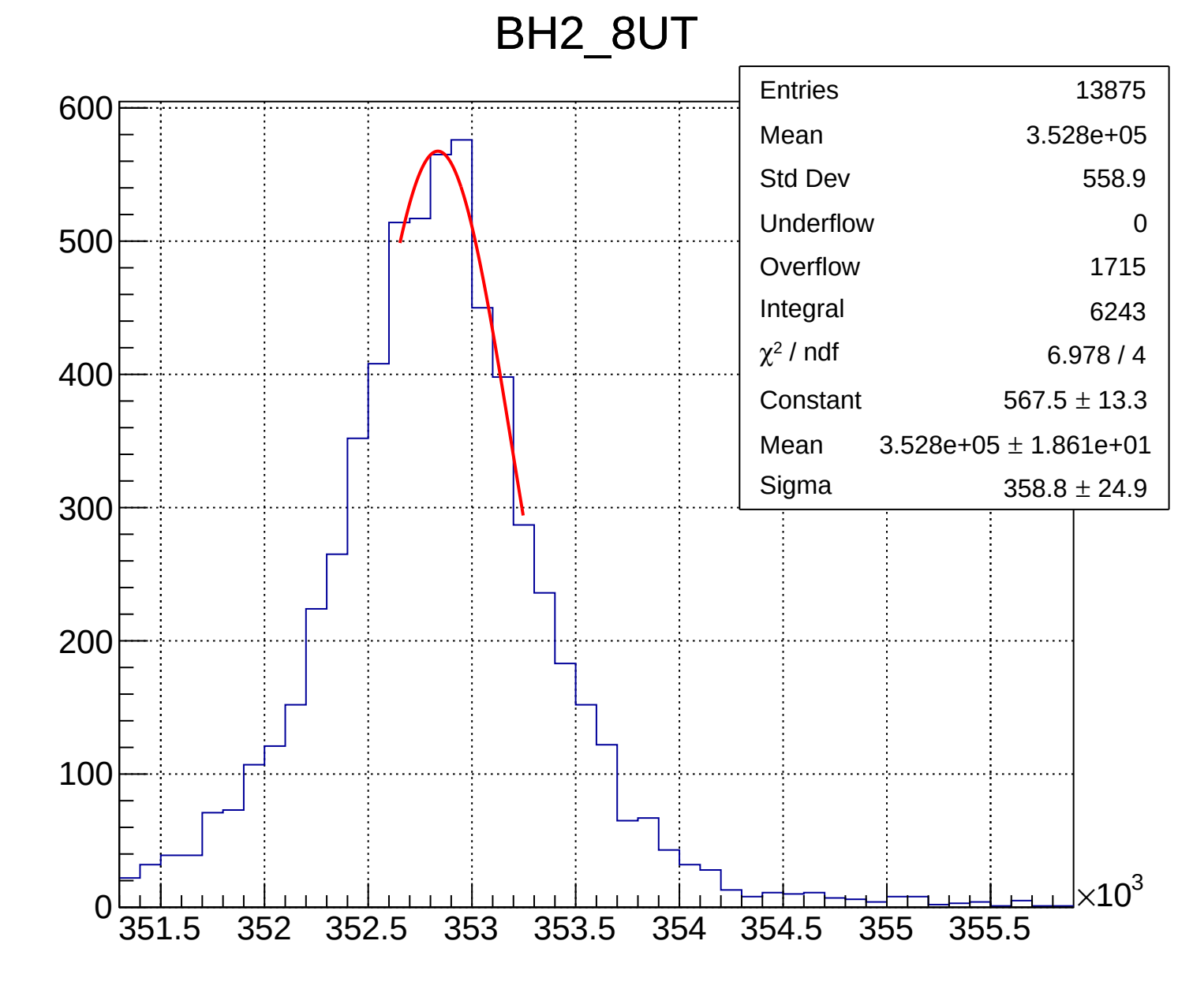

BH2_3UT
Entries 123901
Mean 3.532e+05
Std Dev 428.5
Underflow 0
Overflow 2.47e+04
Integral 5.832e+04
χ² / ndf 31.62 / 4
Constant 8259 ± 56.4
Mean 3.532e+05 ± 1.839e+00
Sigma 256.8 ± 2.6
8000
7000
6000
5000
4000
3000
2000
1000
0
352
352.5
353
353.5
354
354.5
355
355.5
356
×10³

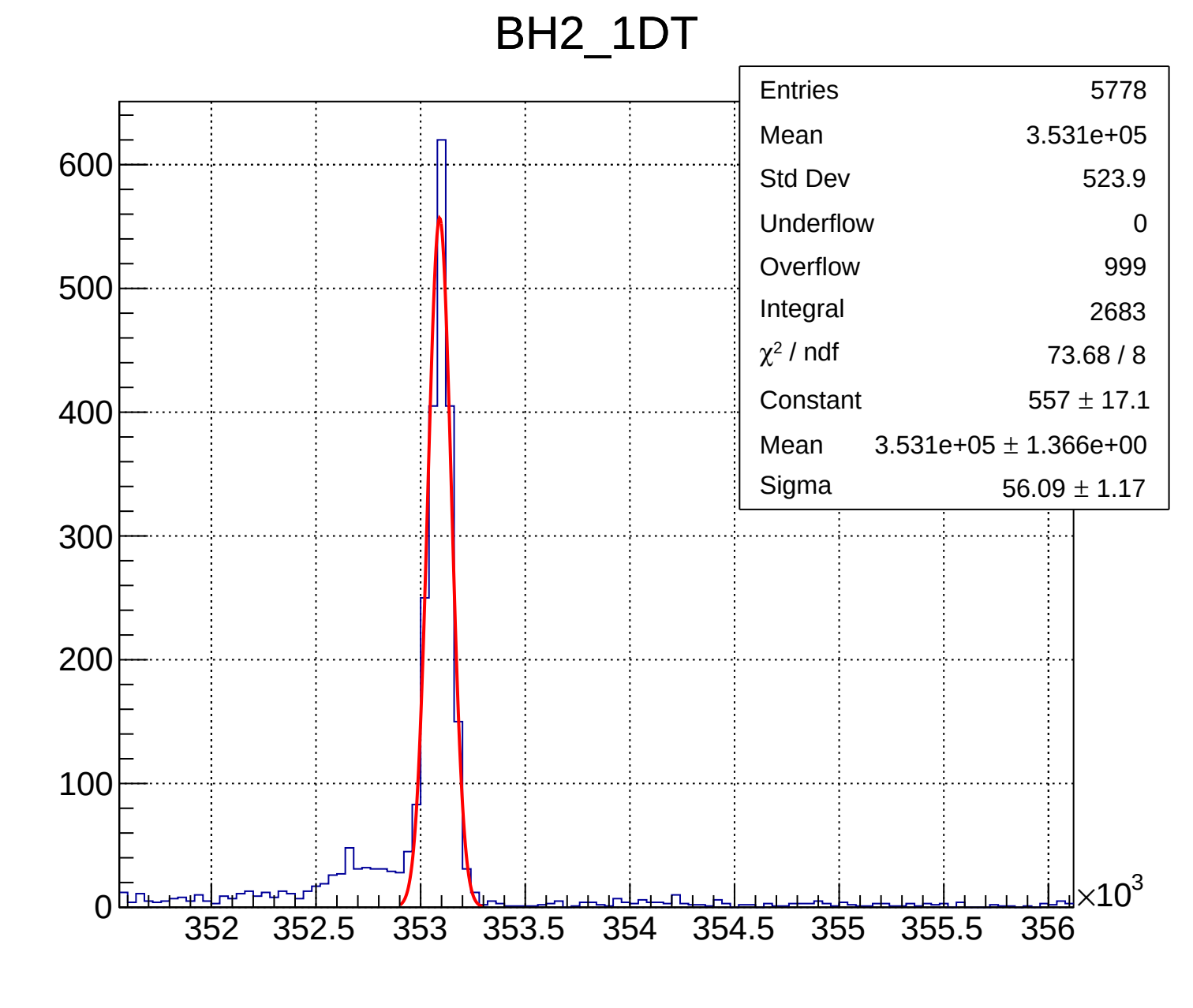

BH2_4UT
Entries 146647
Mean 3.538e+05
Std Dev 397.3
Underflow 0
Overflow 2.915e+04
Integral 7.182e+04
χ² / ndf 5.703 / 4
Constant 1.123e+04 ± 6.559e+01
Mean 3.538e+05 ± 1.470e+00
Sigma 233 ± 1.8
10000
8000
6000
4000
2000
0
352.5
353
353.5
354
354.5
355
355.5
356
356.5
×10³

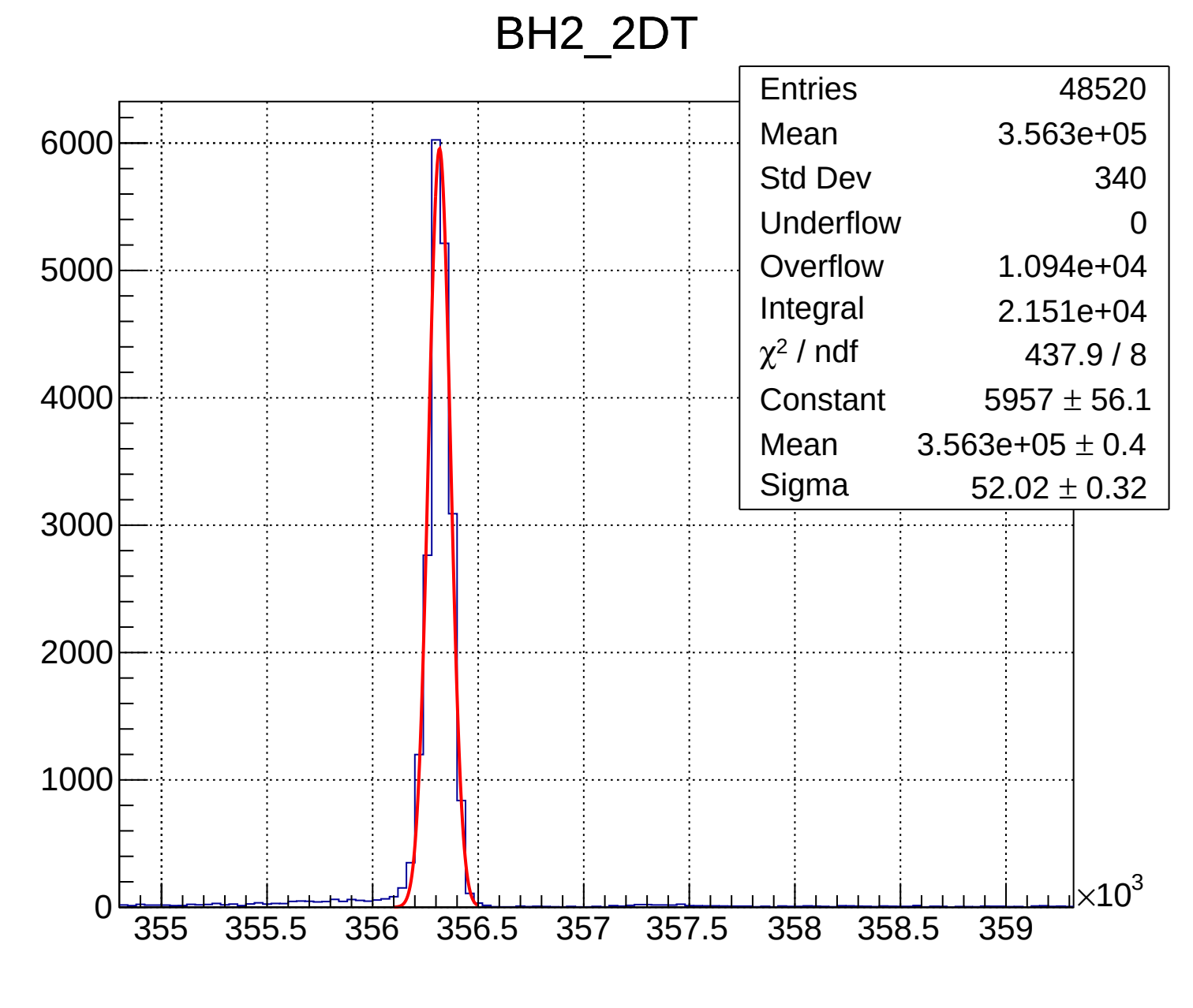

BH2_5UT
Entries 74063
Mean 3.544e+05
Std Dev 430.1
Underflow 0
Overflow 1.439e+04
Integral 3.538e+04
χ² / ndf 10.66 / 4
Constant 4564 ± 41.1
Mean 3.544e+05 ± 3.180e+00
Sigma 290.5 ± 4.9
4500
4000
3500
3000
2500
2000
1500
1000
500
0
353
353.5
354
354.5
355
355.5
356
356.5
357
×10³

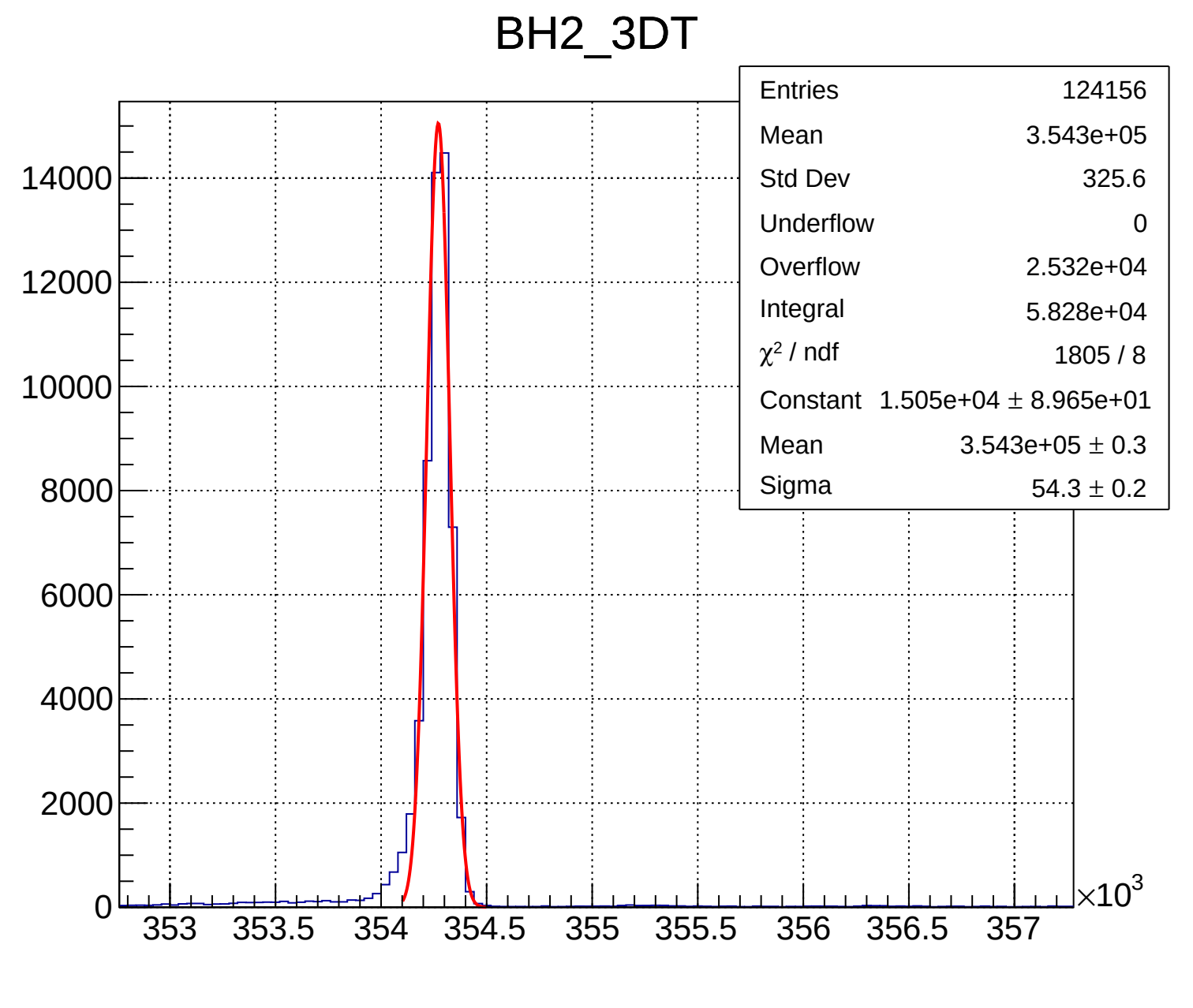

BH2_6UT
Entries 16939
Mean 3.536e+05
Std Dev 436.5
Underflow 0
Overflow 2905
Integral 8208
χ² / ndf 3.674 / 4
Constant 1093 ± 20.5
Mean 3.536e+05 ± 5.071e+00
Sigma 257.8 ± 7.3
1000
800
600
400
200
0
352.5
353
353.5
354
354.5
355
355.5
356
356.5
×10³

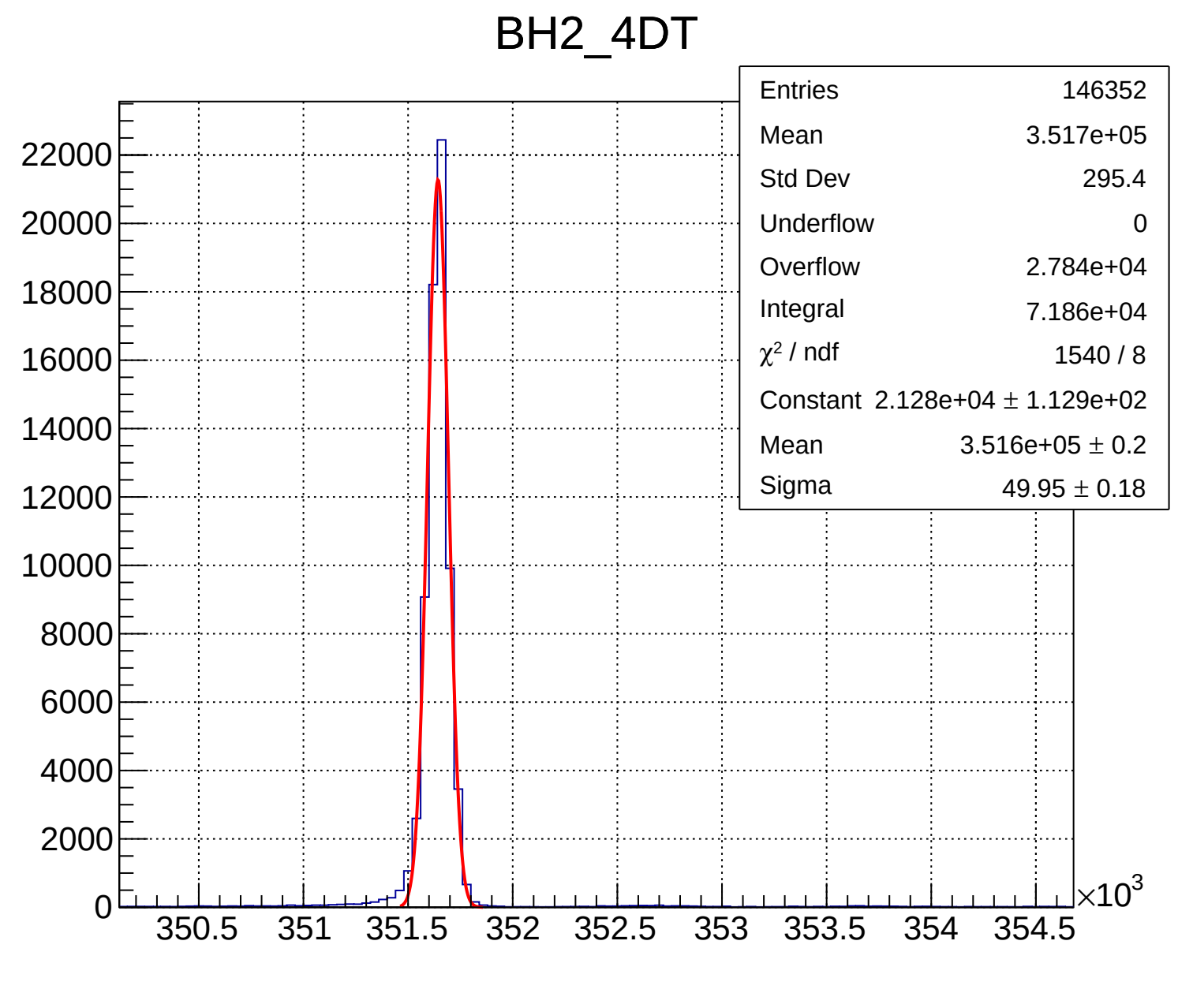

BH2_7UT
Entries 7749
Mean 3.547e+05
Std Dev 526.5
Underflow 0
Overflow 1239
Integral 3698
χ² / ndf 4.343 / 4
Constant 379.5 ± 11.6
Mean 3.547e+05 ± 1.474e+01
Sigma 352.6 ± 27.7
400
350
300
250
200
150
100
50
0
353.5
354
354.5
355
355.5
356
356.5
357
357.5
×10³

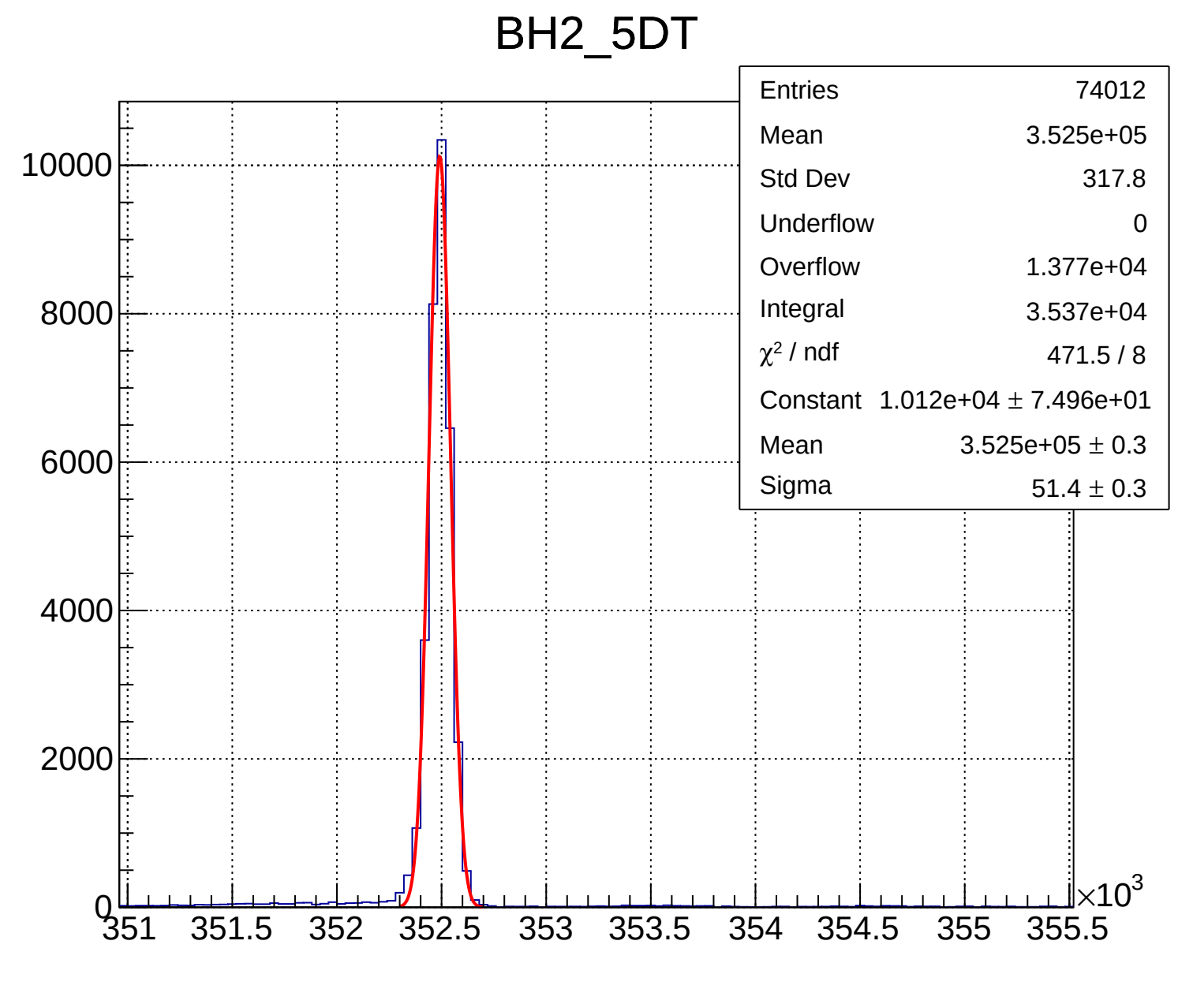

BH2_8UT
Entries 13875
Mean 3.528e+05
Std Dev 558.9
Underflow 0
Overflow 1715
Integral 6243
χ² / ndf 6.978 / 4
Constant 567.5 ± 13.3
Mean 3.528e+05 ± 1.861e+01
Sigma 358.8 ± 24.9
600
500
400
300
200
100
0
351.5
352
352.5
353
353.5
354
354.5
355
355.5
×10³

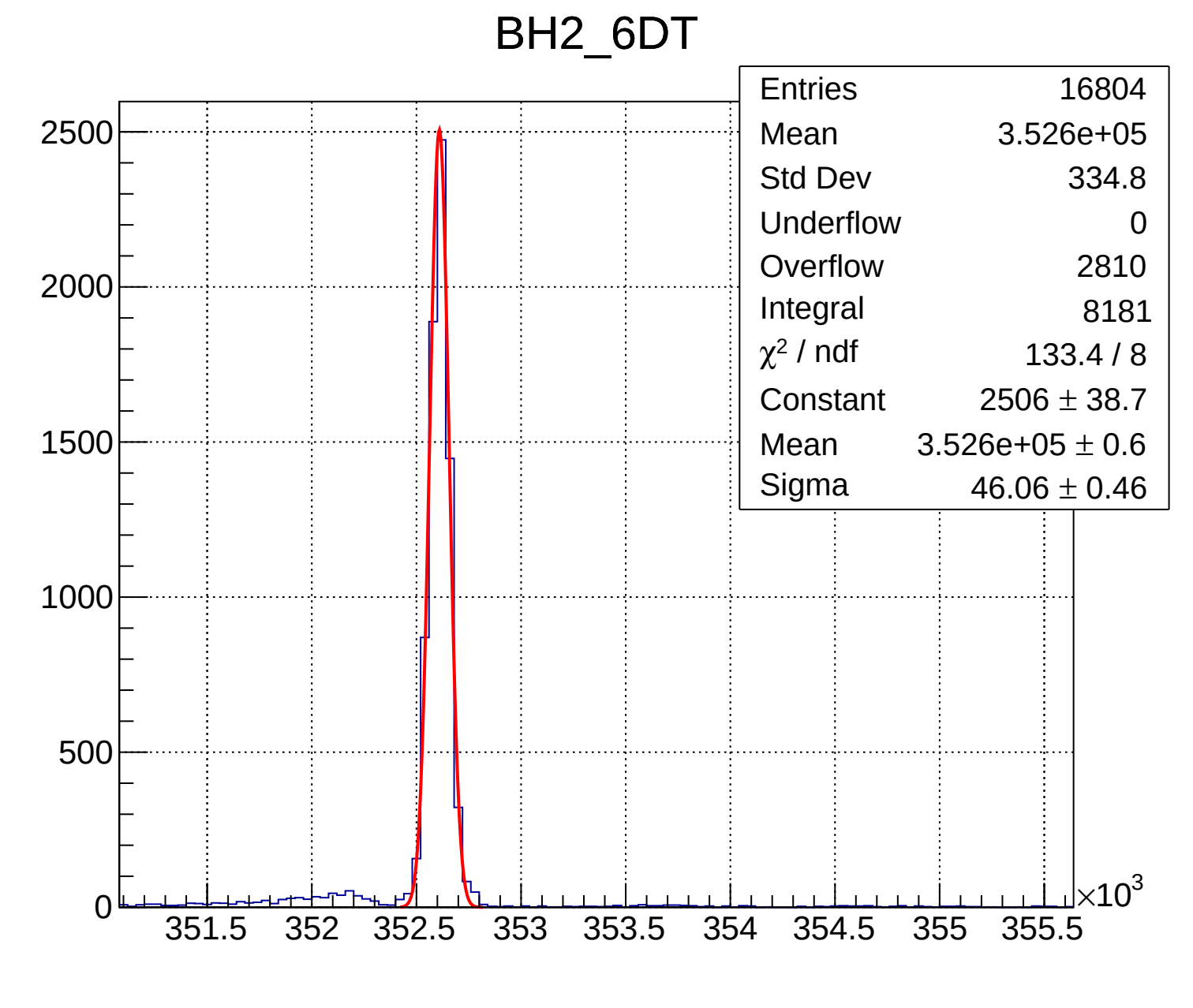

BH2_1DT
Entries 5778
Mean 3.531e+05
Std Dev 523.9
Underflow 0
Overflow 999
Integral 2683
χ² / ndf 73.68 / 8
Constant 557 ± 17.1
Mean 3.531e+05 ± 1.366e+00
Sigma 56.09 ± 1.17
600
500
400
300
200
100
0
352
352.5
353
353.5
354
354.5
355
355.5
356
×10³

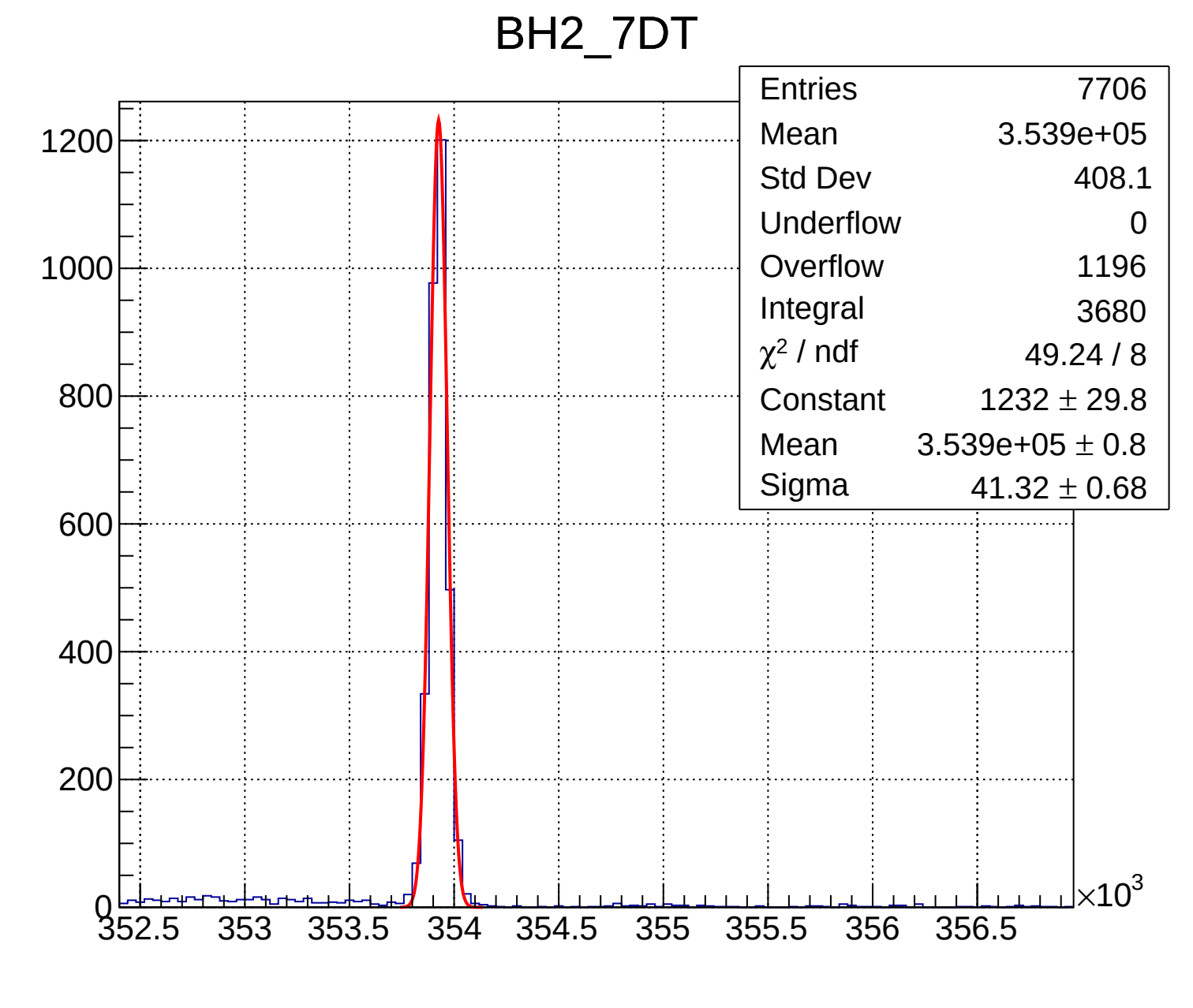

BH2_2DT
Entries 48520
Mean 3.563e+05
Std Dev 340
Underflow 0
Overflow 1.094e+04
Integral 2.151e+04
χ² / ndf 437.9 / 8
Constant 5957 ± 56.1
Mean 3.563e+05 ± 0.4
Sigma 52.02 ± 0.32
6000
5000
4000
3000
2000
1000
0
355
355.5
356
356.5
357
357.5
358
358.5
359
×10³

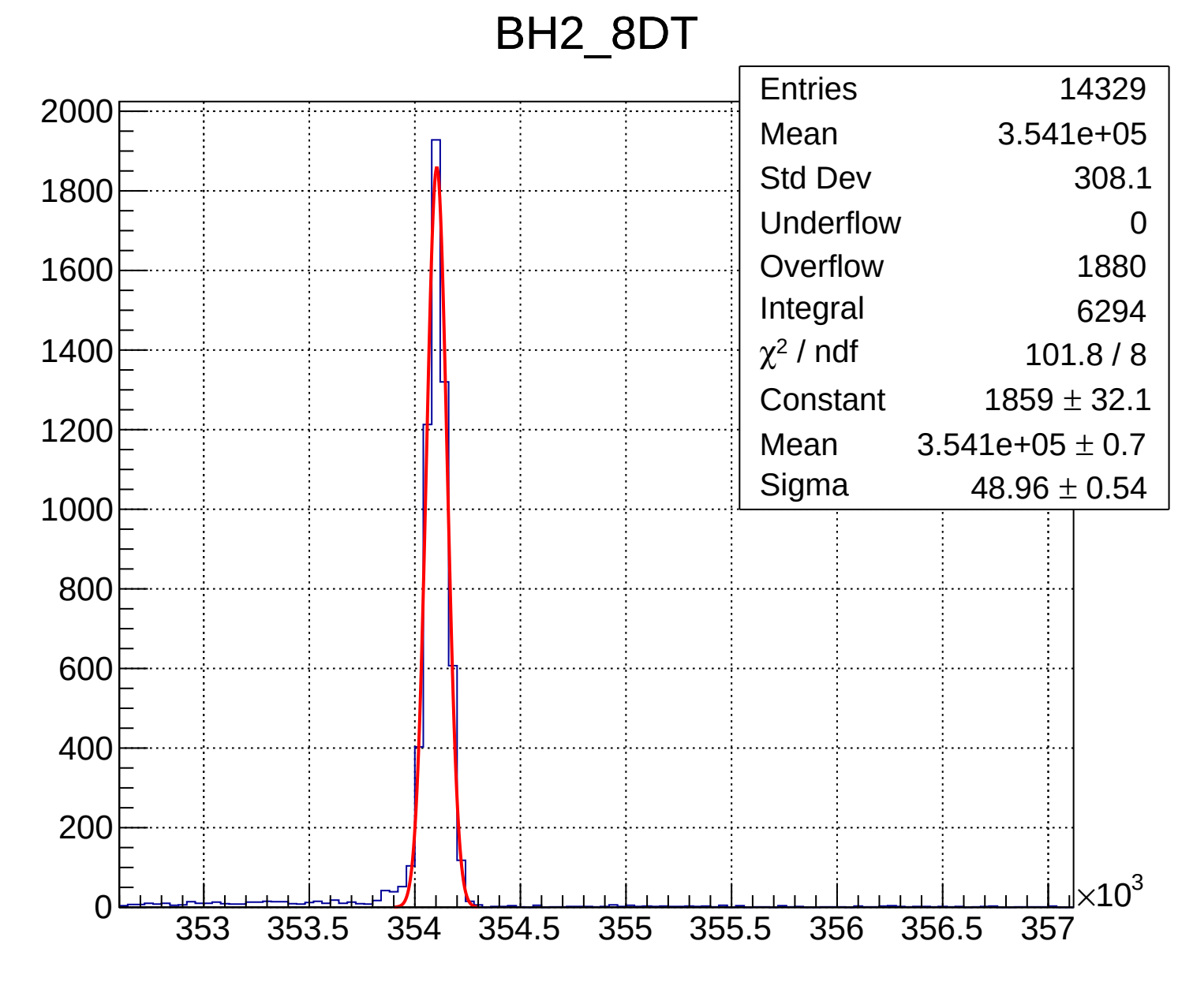

BH2_3DT
Entries 124156
Mean 3.543e+05
Std Dev 325.6
Underflow 0
Overflow 2.532e+04
Integral 5.828e+04
χ² / ndf 1805 / 8
Constant 1.505e+04 ± 8.965e+01
Mean 3.543e+05 ± 0.3
Sigma 54.3 ± 0.2
14000
12000
10000
8000
6000
4000
2000
0
353
353.5
354
354.5
355
355.5
356
356.5
357
×10³

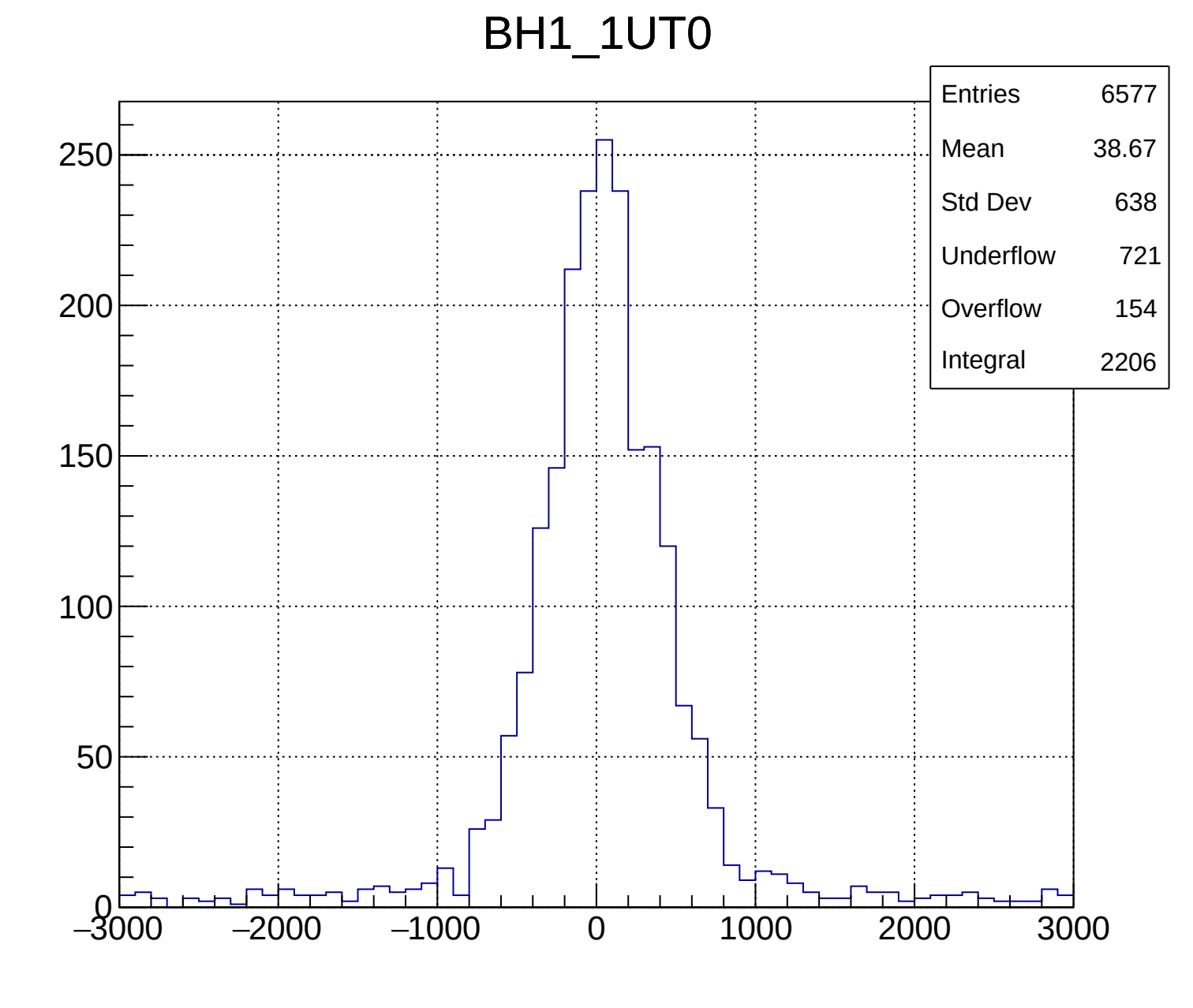

BH2_4DT
Entries 146352
Mean 3.517e+05
Std Dev 295.4
Underflow 0
Overflow 2.784e+04
Integral 7.186e+04
χ² / ndf 1540 / 8
Constant 2.128e+04 ± 1.129e+02
Mean 3.516e+05 ± 0.2
Sigma 49.95 ± 0.18
22000
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
350.5
351
351.5
352
352.5
353
353.5
354
354.5
×10³

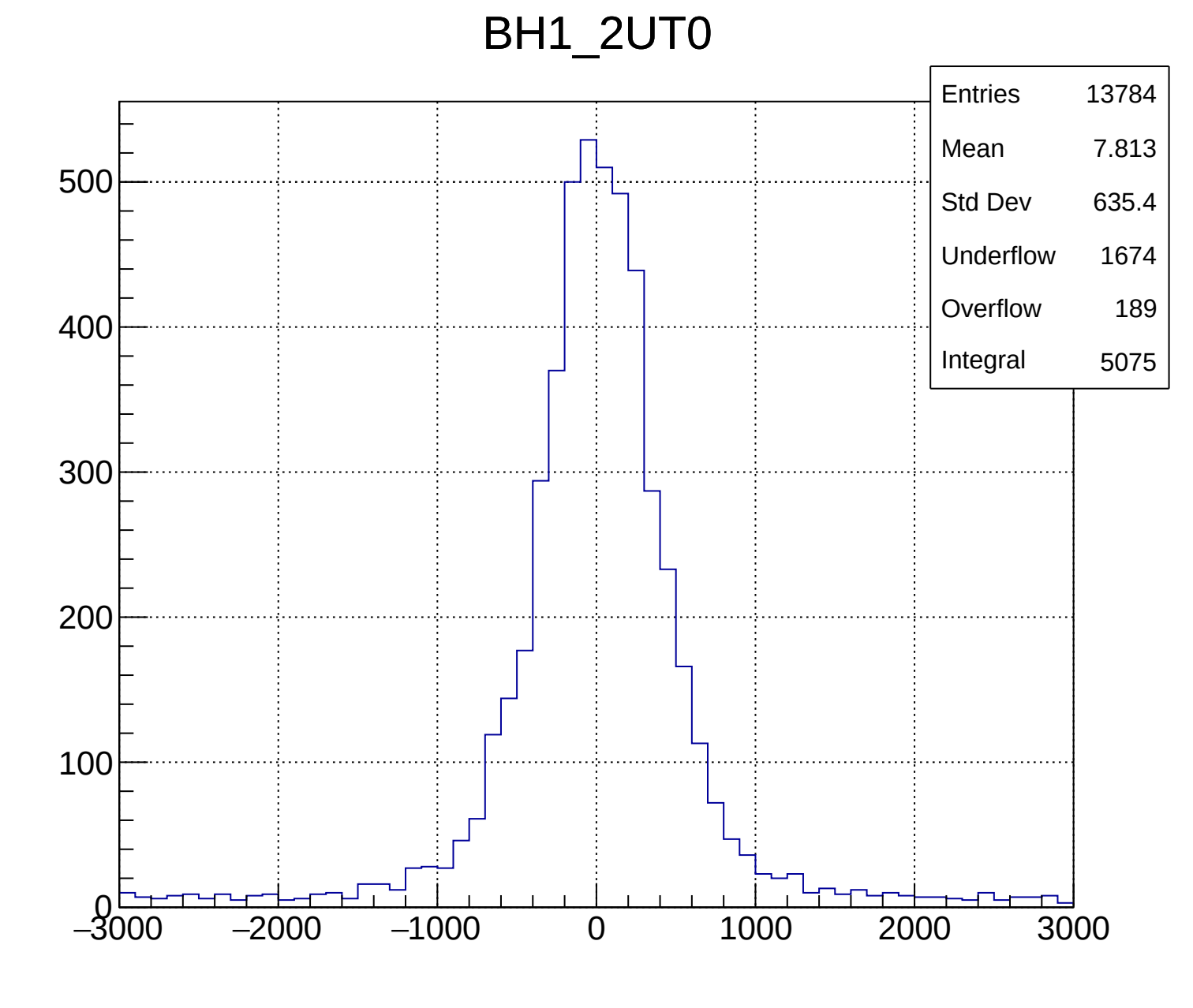

BH2_5DT
Entries 74012
Mean 3.525e+05
Std Dev 317.8
Underflow 0
Overflow 1.377e+04
Integral 3.537e+04
χ² / ndf 471.5 / 8
Constant 1.012e+04 ± 7.496e+01
Mean 3.525e+05 ± 0.3
Sigma 51.4 ± 0.3
10000
8000
6000
4000
2000
0
351
351.5
352
352.5
353
353.5
354
354.5
355
355.5
×10³

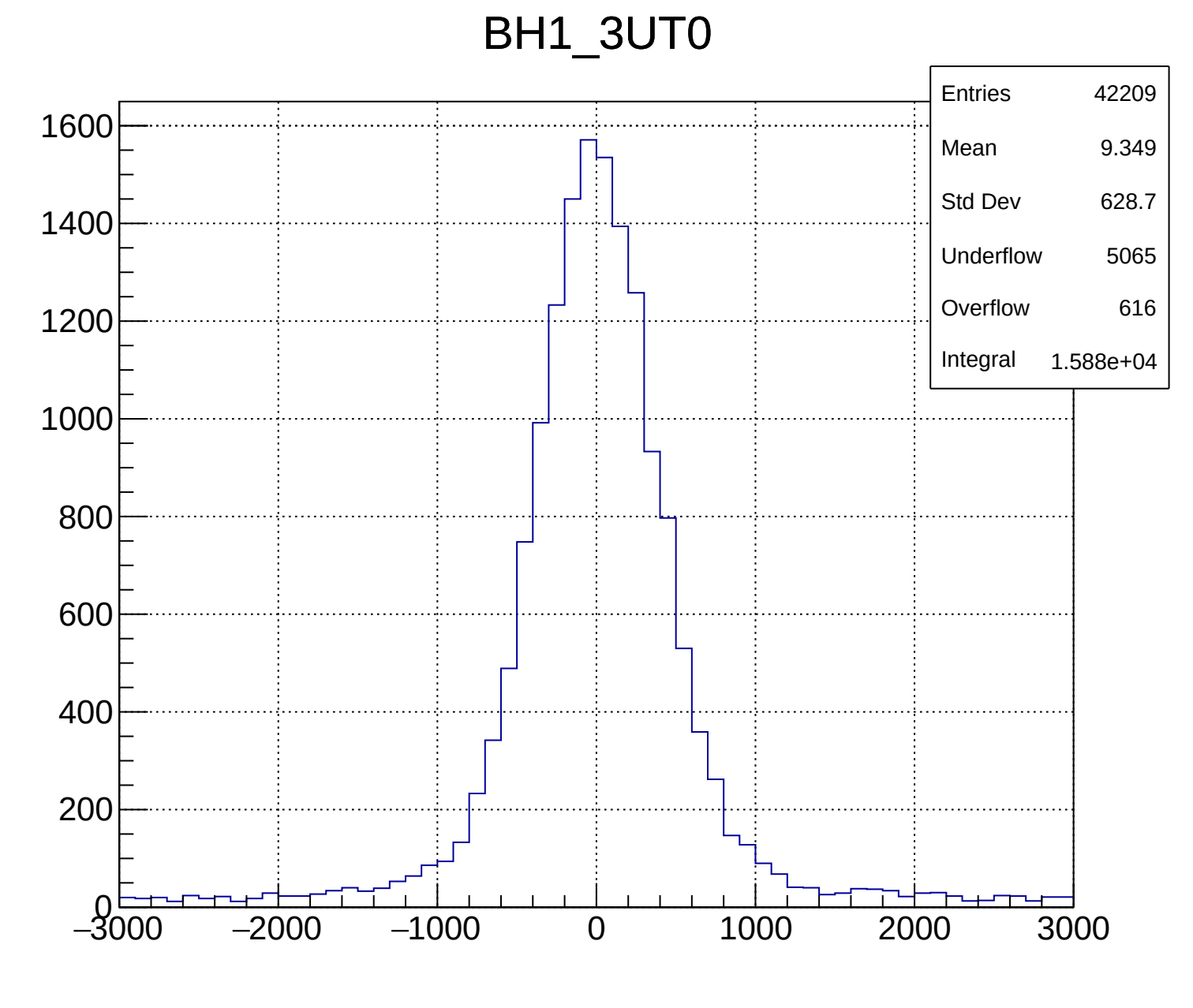

BH2_6DT
Entries 16804
Mean 3.526e+05
Std Dev 334.8
Underflow 0
Overflow 2810
Integral 8181
χ² / ndf 133.4 / 8
Constant 2506 ± 38.7
Mean 3.526e+05 ± 0.6
Sigma 46.06 ± 0.46
2500
2000
1500
1000
500
0
351.5
352
352.5
353
353.5
354
354.5
355
355.5
×10³

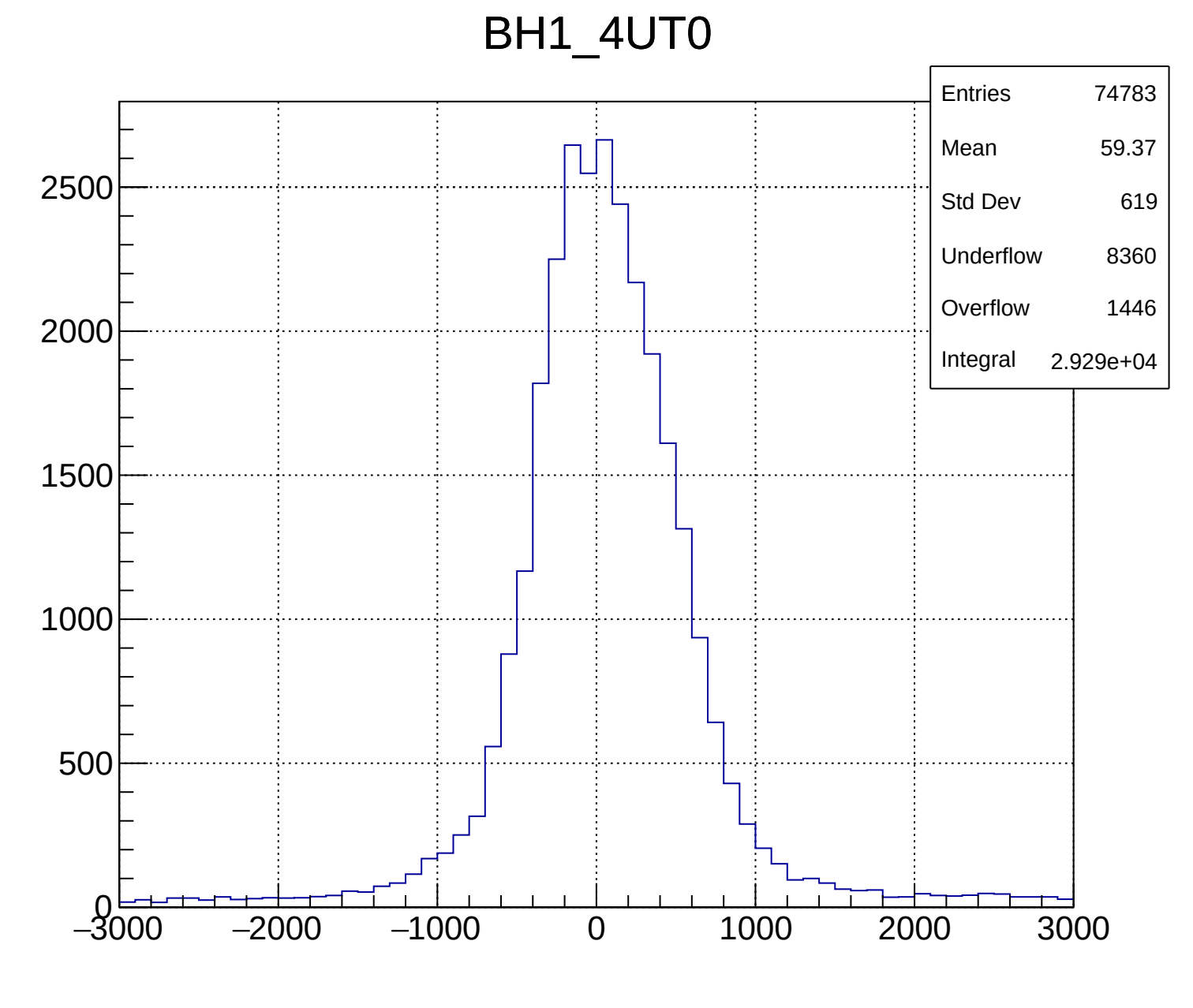

BH2_7DT
Entries 7706
Mean 3.539e+05
Std Dev 408.1
Underflow 0
Overflow 1196
Integral 3680
χ² / ndf 49.24 / 8
Constant 1232 ± 29.8
Mean 3.539e+05 ± 0.8
Sigma 41.32 ± 0.68
1200
1000
800
600
400
200
0
352.5
353
353.5
354
354.5
355
355.5
356
356.5
×10³

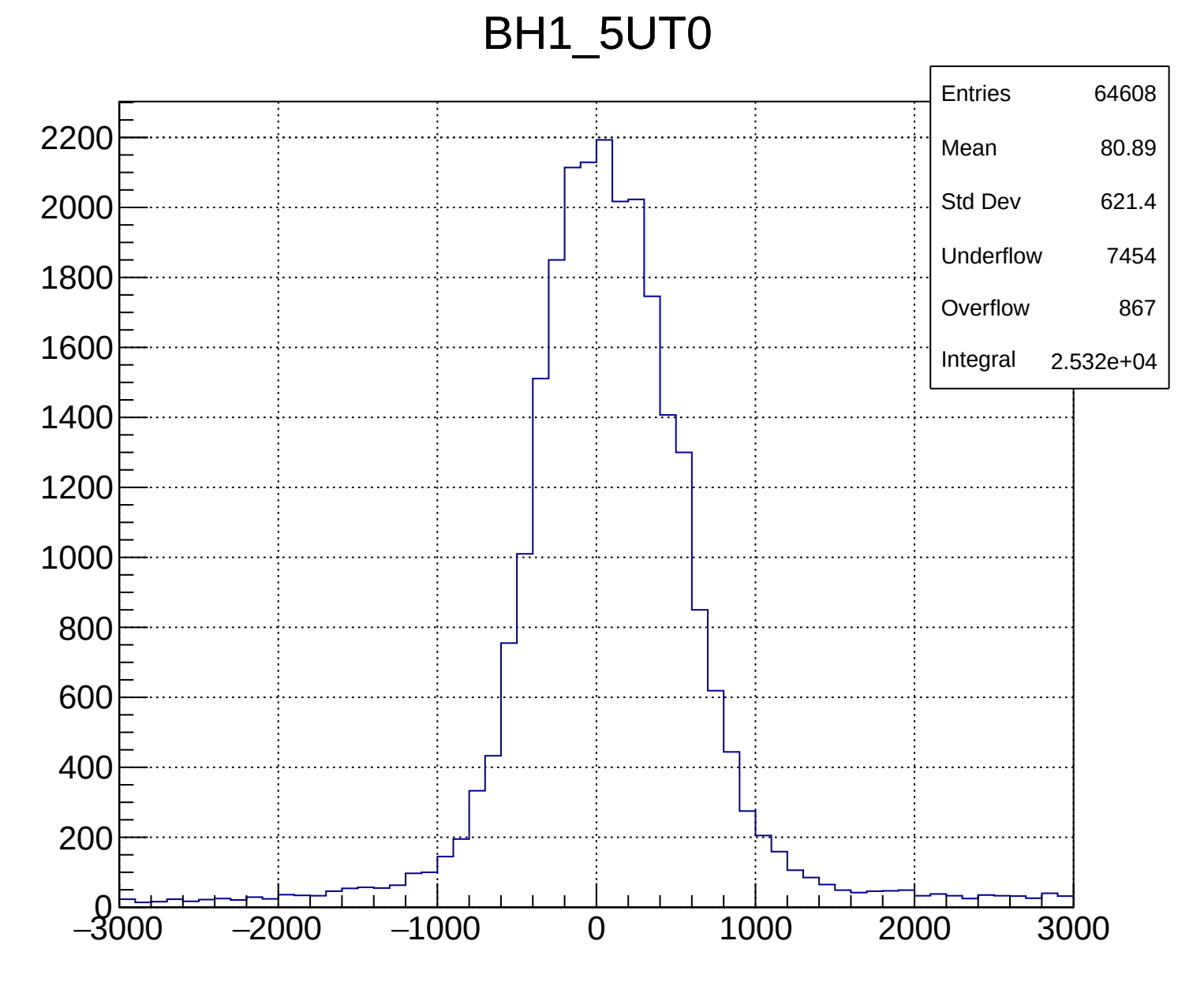

BH2_8DT
Entries 14329
Mean 3.541e+05
Std Dev 308.1
Underflow 0
Overflow 1880
Integral 6294
χ² / ndf 101.8 / 8
Constant 1859 ± 32.1
Mean 3.541e+05 ± 0.7
Sigma 48.96 ± 0.54
2000
1800
1600
1400
1200
1000
800
600
400
200
0
353
353.5
354
354.5
355
355.5
356
356.5
357
×10³

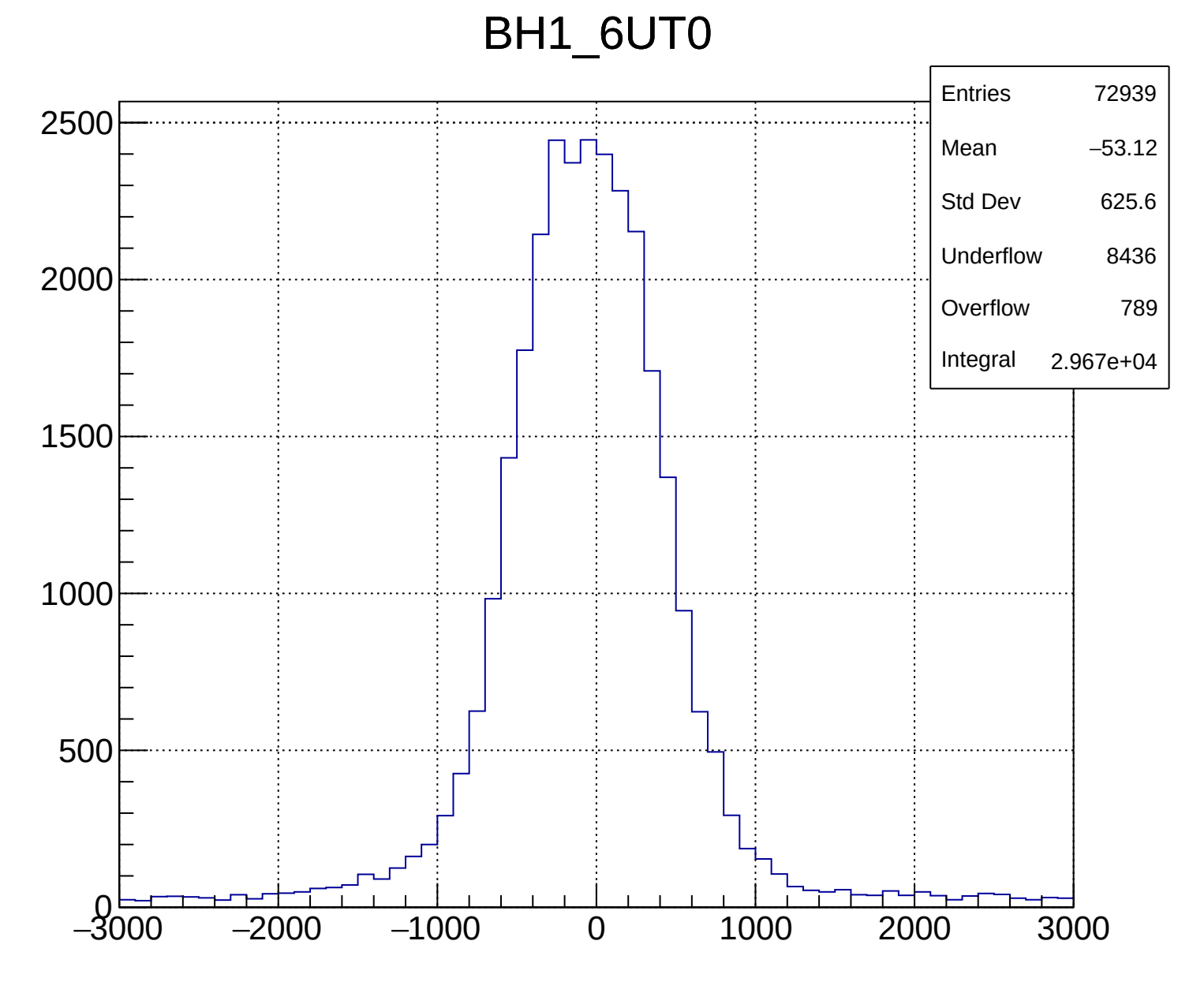

BH1_1UT0
Entries 6577
Mean 38.67
Std Dev 638
Underflow 721
Overflow 154
Integral 2206
250
200
150
100
50
0
–3000
–2000
–1000
0
1000
2000
3000

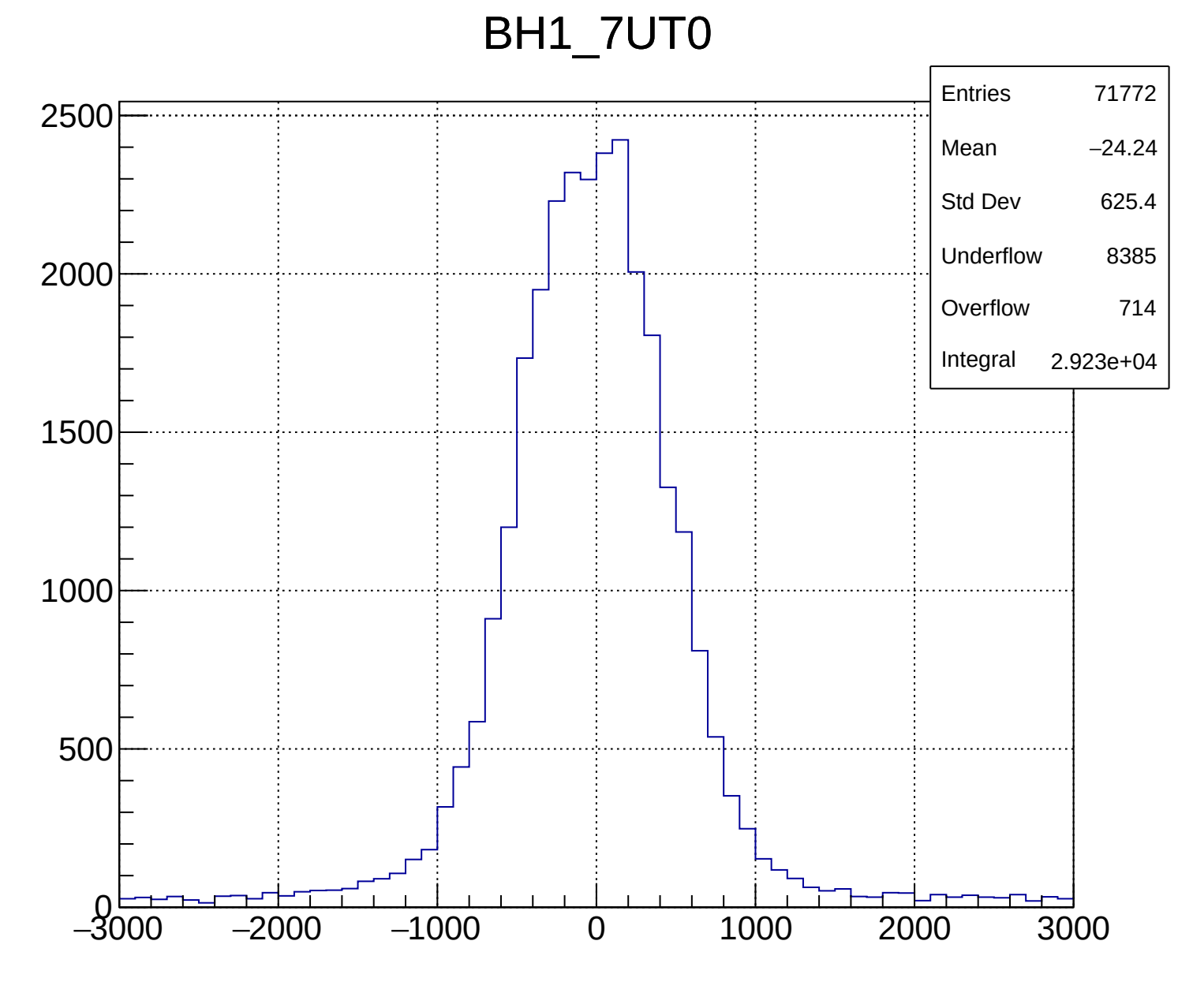

BH1_2UT0
Entries 13784
Mean 7.813
Std Dev 635.4
Underflow 1674
Overflow 189
Integral 5075
500
400
300
200
100
0
–3000
–2000
–1000
0
1000
2000
3000


BH1_3UT0
Entries 42209
Mean 9.349
Std Dev 628.7
Underflow 5065
Overflow 616
Integral 1.588e+04
1600
1400
1200
1000
800
600
400
200
0
–3000
–2000
–1000
0
1000
2000
3000


BH1_4UT0
Entries 74783
Mean 59.37
Std Dev 619
Underflow 8360
Overflow 1446
Integral 2.929e+04
2500
2000
1500
1000
500
0
–3000
–2000
–1000
0
1000
2000
3000


BH1_5UT0
Entries 64608
Mean 80.89
Std Dev 621.4
Underflow 7454
Overflow 867
Integral 2.532e+04
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
–3000
–2000
–1000
0
1000
2000
3000


BH1_6UT0
Entries 72939
Mean –53.12
Std Dev 625.6
Underflow 8436
Overflow 789
Integral 2.967e+04
2500
2000
1500
1000
500
0
–3000
–2000
–1000
0
1000
2000
3000


BH1_7UT0
Entries 71772
Mean –24.24
Std Dev 625.4
Underflow 8385
Overflow 714
Integral 2.923e+04
2500
2000
1500
1000
500
0
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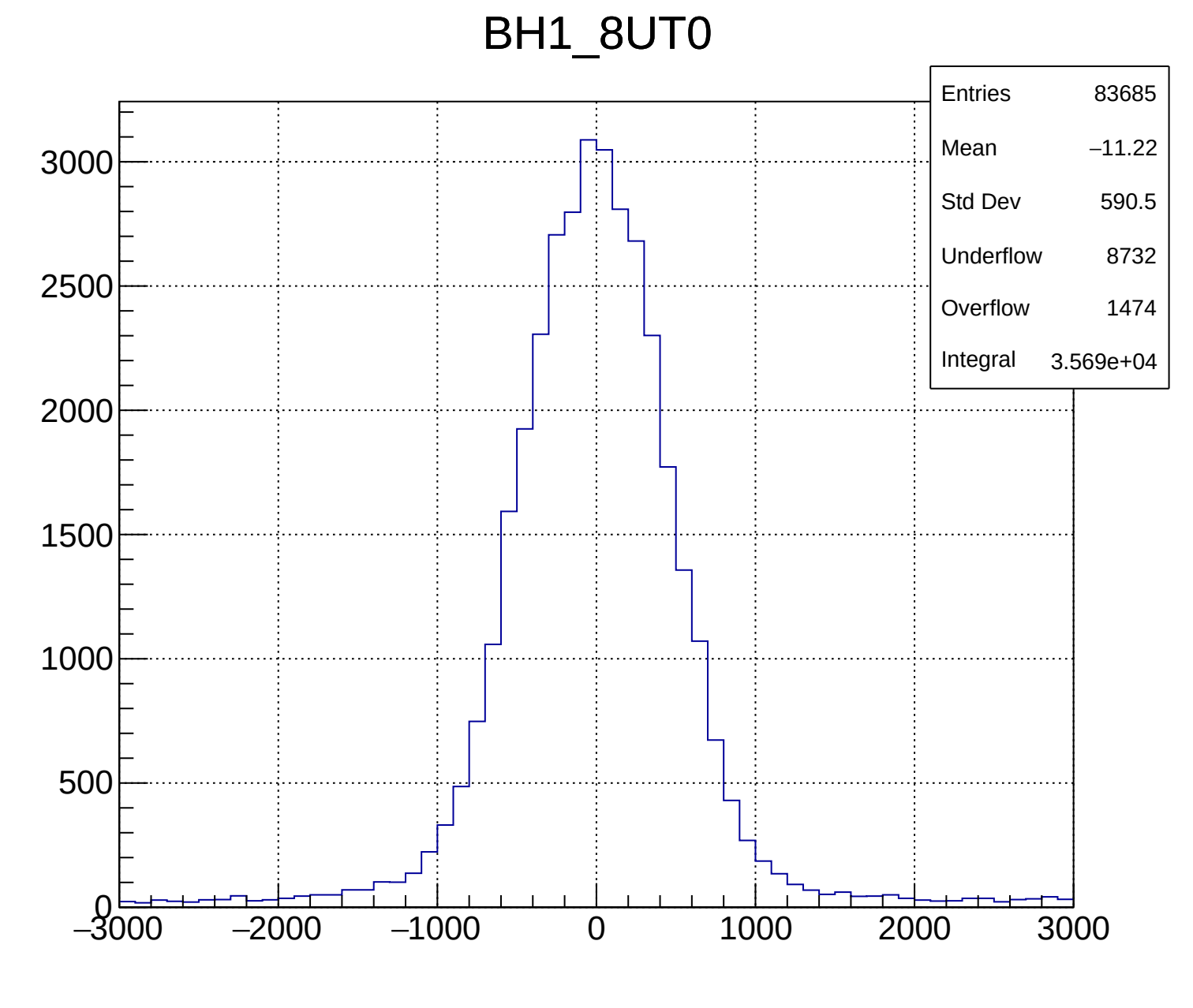
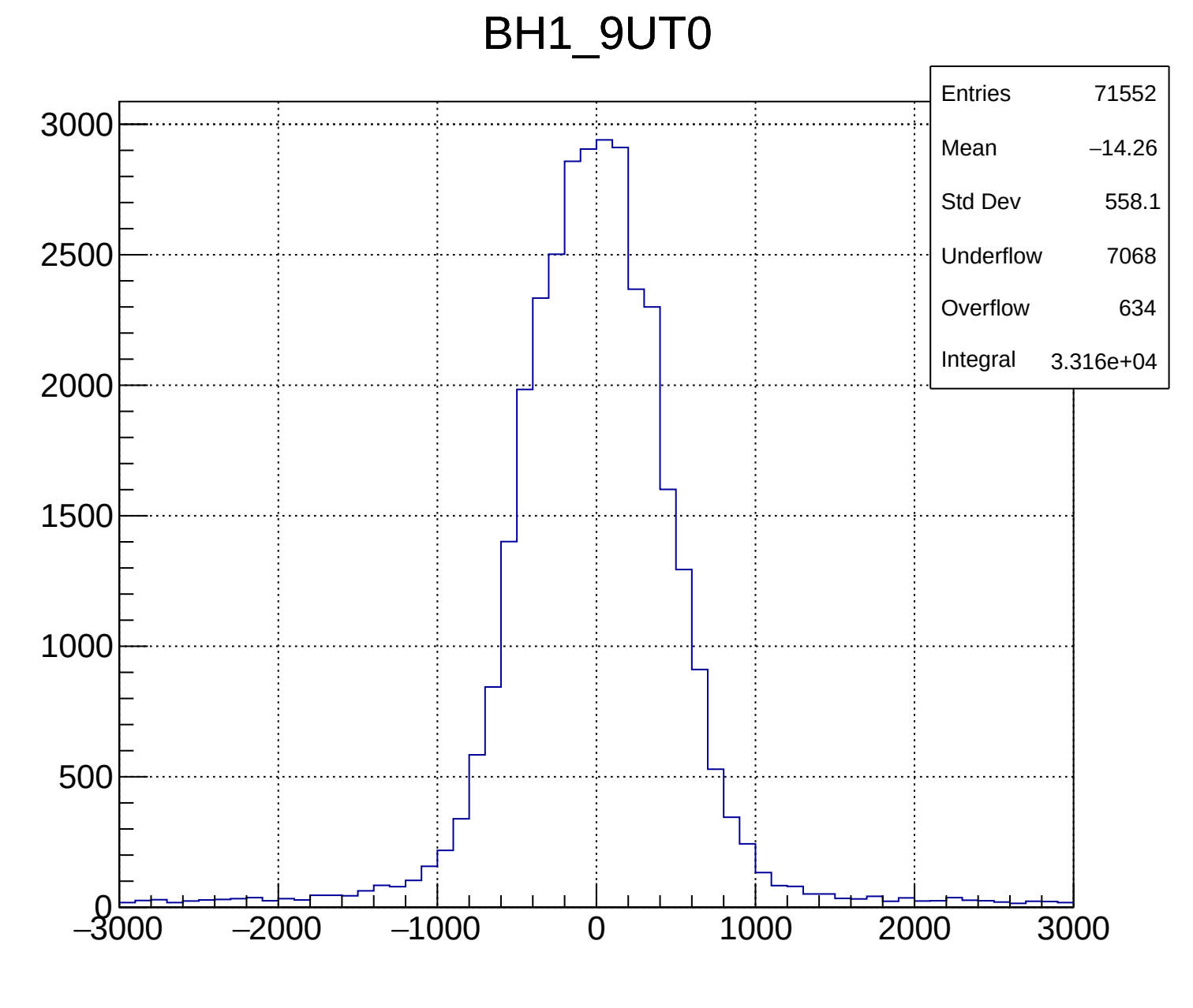
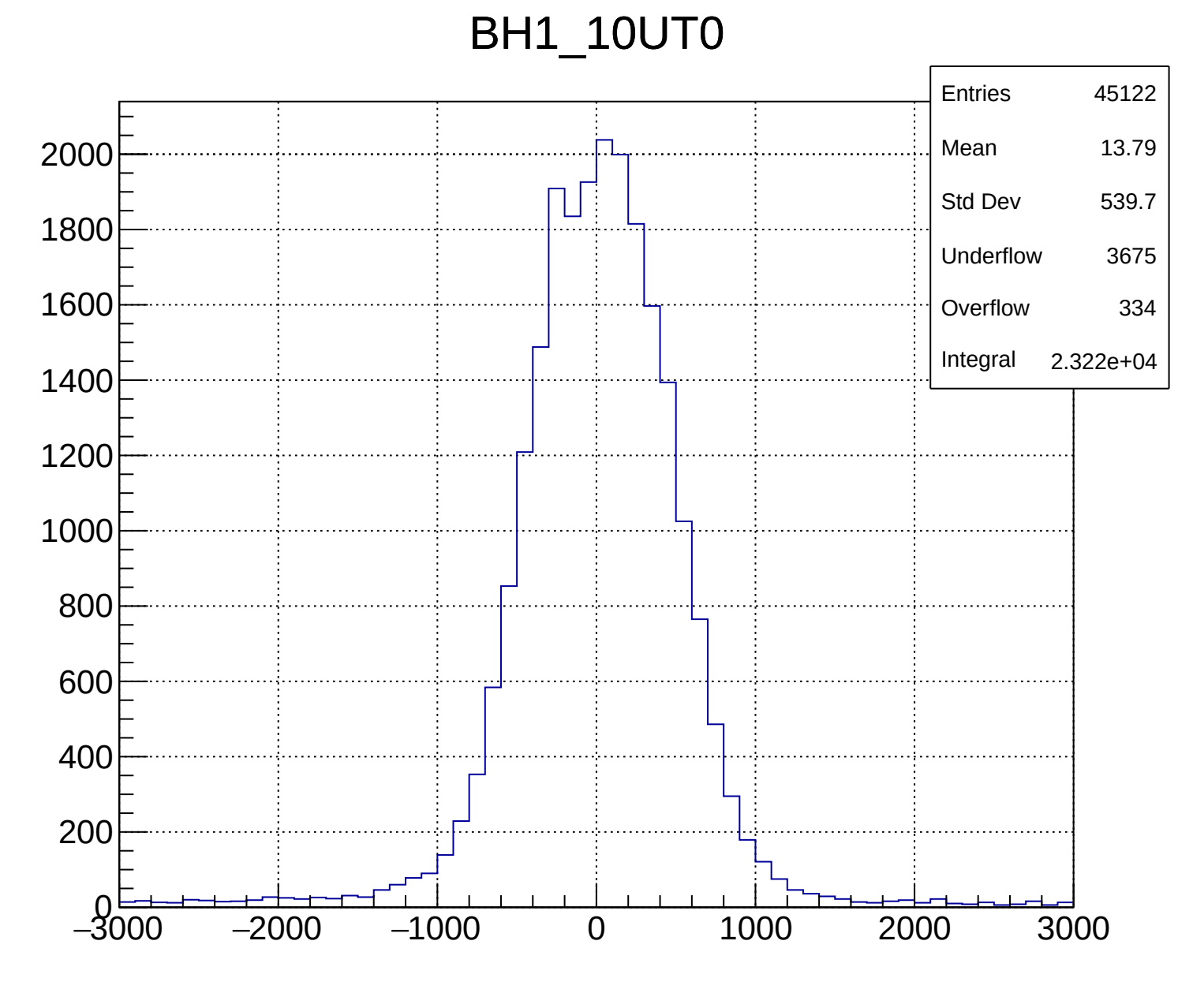
–2000
–1000
0
1000
2000
3000


BH1_8UT0
Entries 83685
Mean –11.22
Std Dev 590.5
Underflow 8732
Overflow 1474
Integral 3.569e+04
3000
2500
2000
1500
1000
500
0
–3000
–2000
–1000
0
1000
2000
3000


BH1_9UT0
Entries 71552
Mean –14.26
Std Dev 558.1
Underflow 7068
Overflow 634
Integral 3.316e+04
3000
2500
2000
1500
1000
500
0
–3000
–2000
–1000
0
1000
2000
3000


BH1_10UT0
Entries 45122
Mean 13.79
Std Dev 539.7
Underflow 3675
Overflow 334
Integral 2.322e+04
2000
1800
1600
1400
1200
1000
800
600
400
200
0
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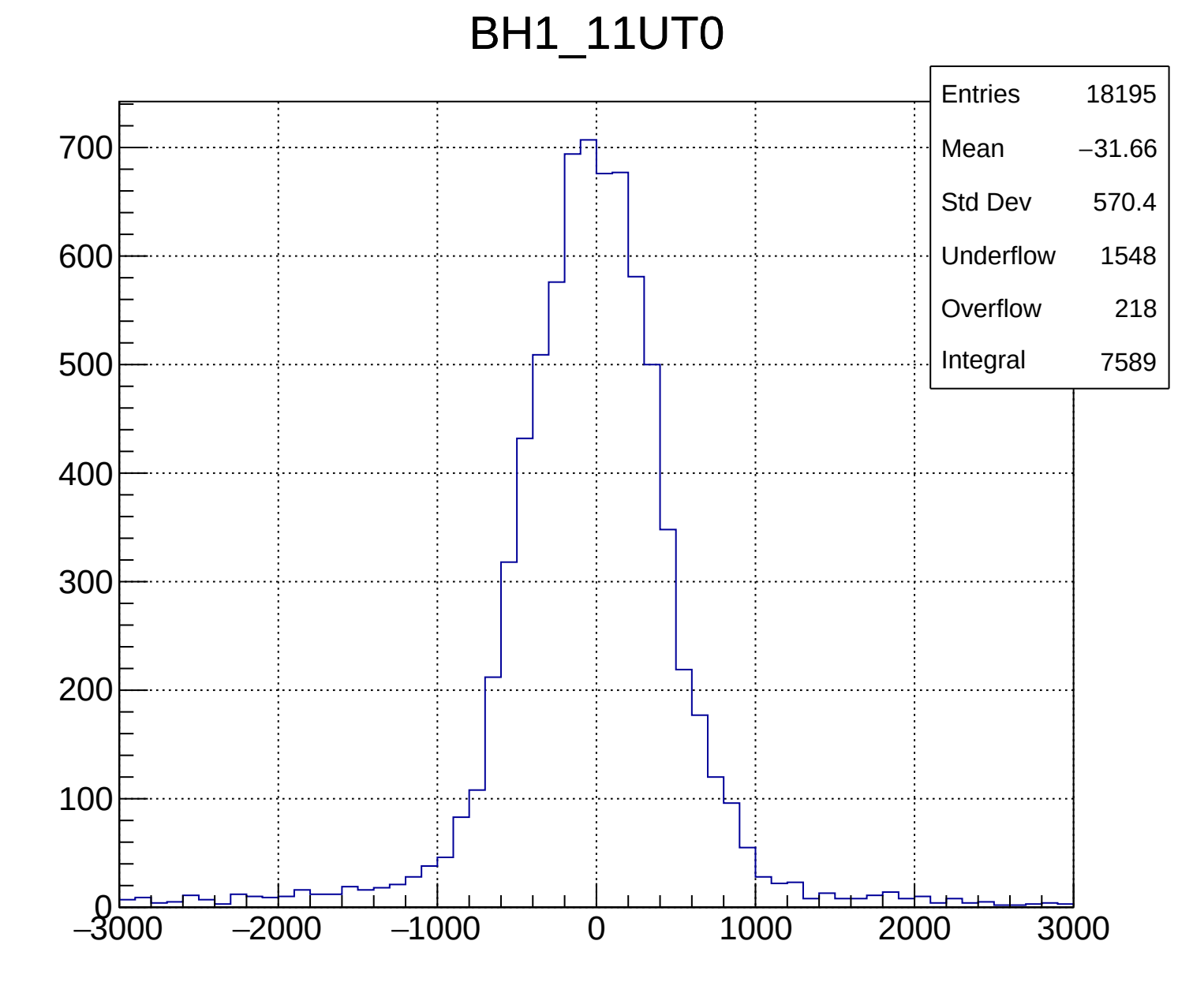
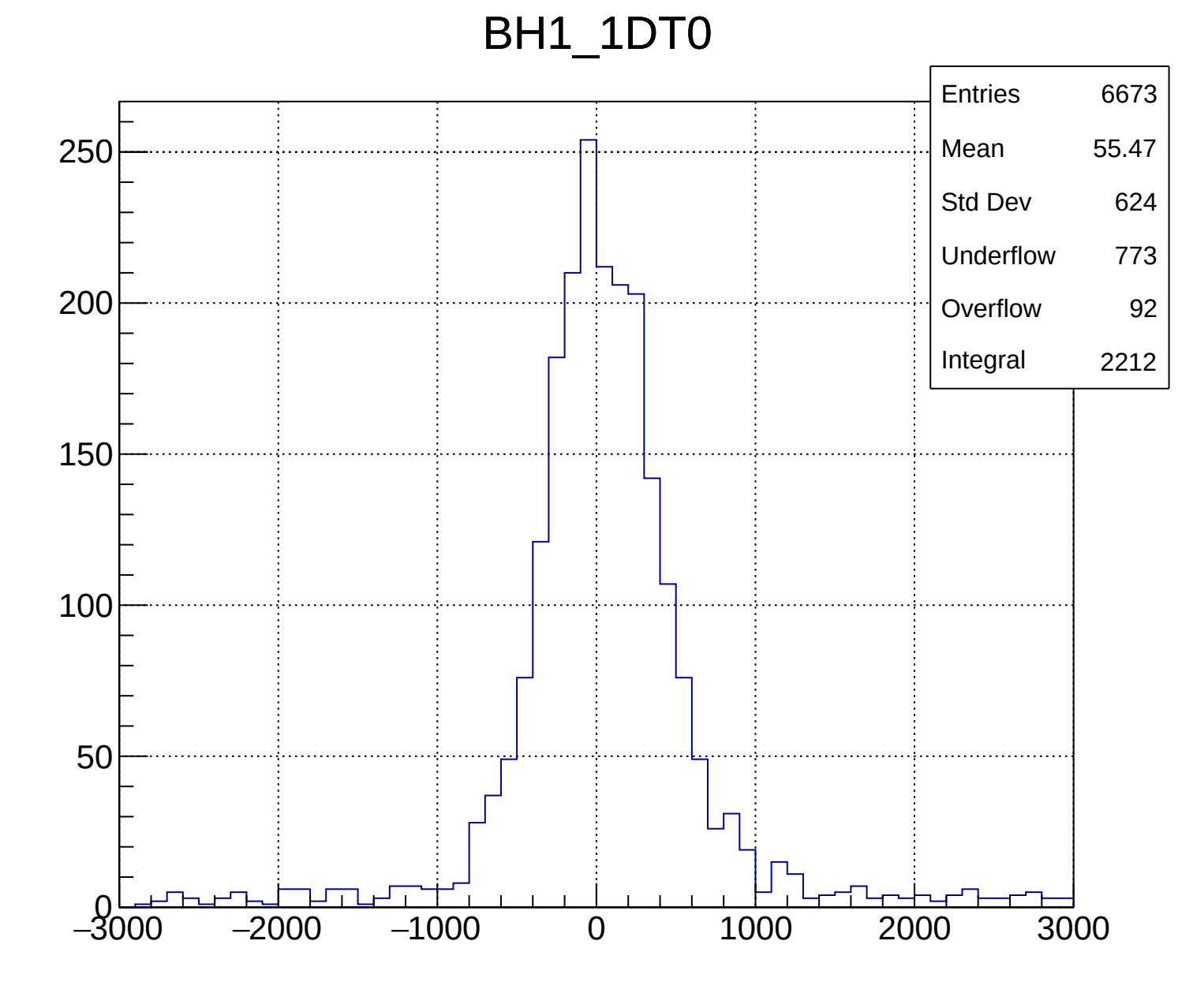
–2000
–1000
0
1000
2000
3000


BH1_11UT0
Entries 18195
Mean −31.66
Std Dev 570.4
Underflow 1548
Overflow 218
Integral 7589
700
600
500
400
300
200
100
0
−3000
−2000
−1000
0
1000
2000
3000


BH1_1DT0
Entries 6673
Mean 55.47
Std Dev 624
Underflow 773
Overflow 92
Integral 2212
250
200
150
100
50
0
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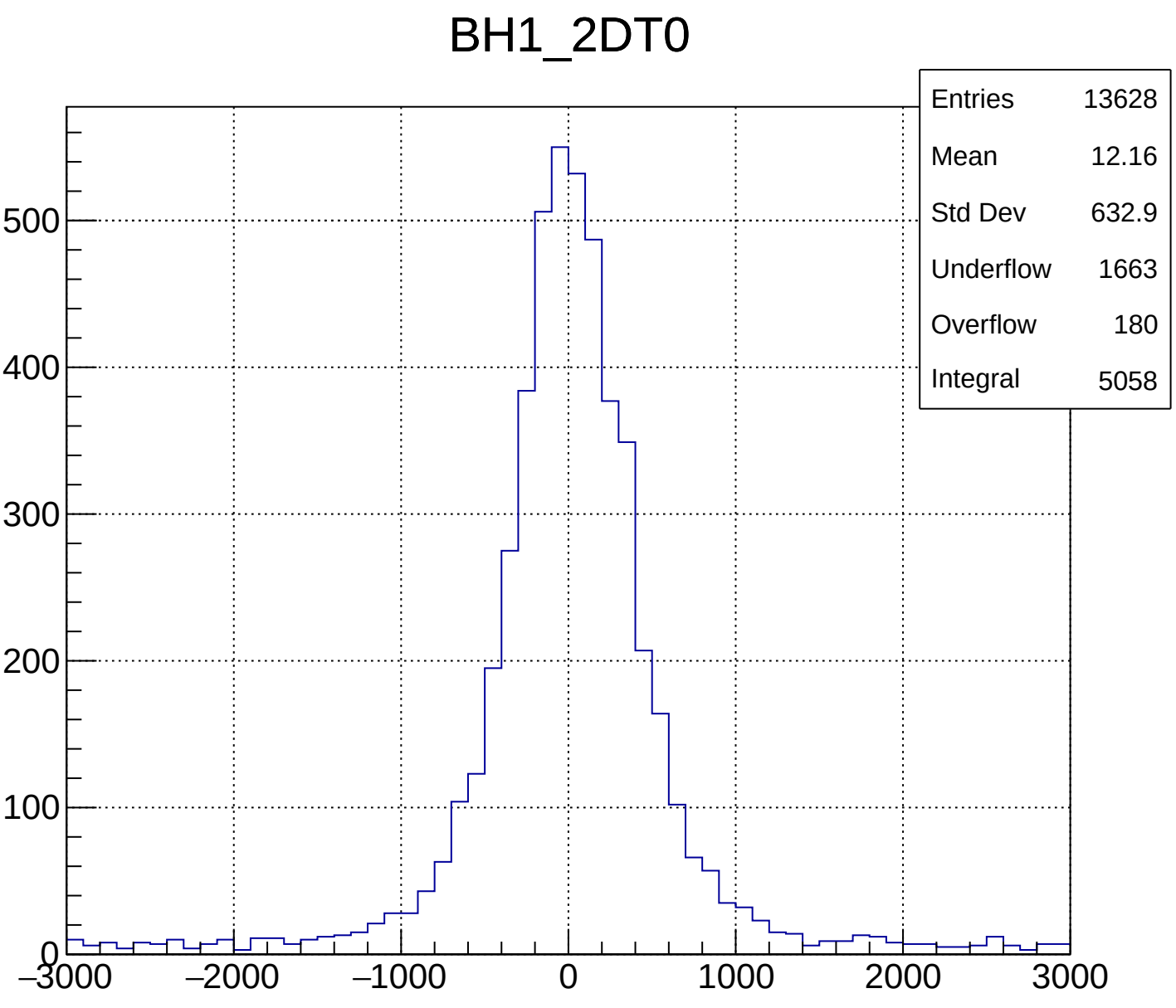
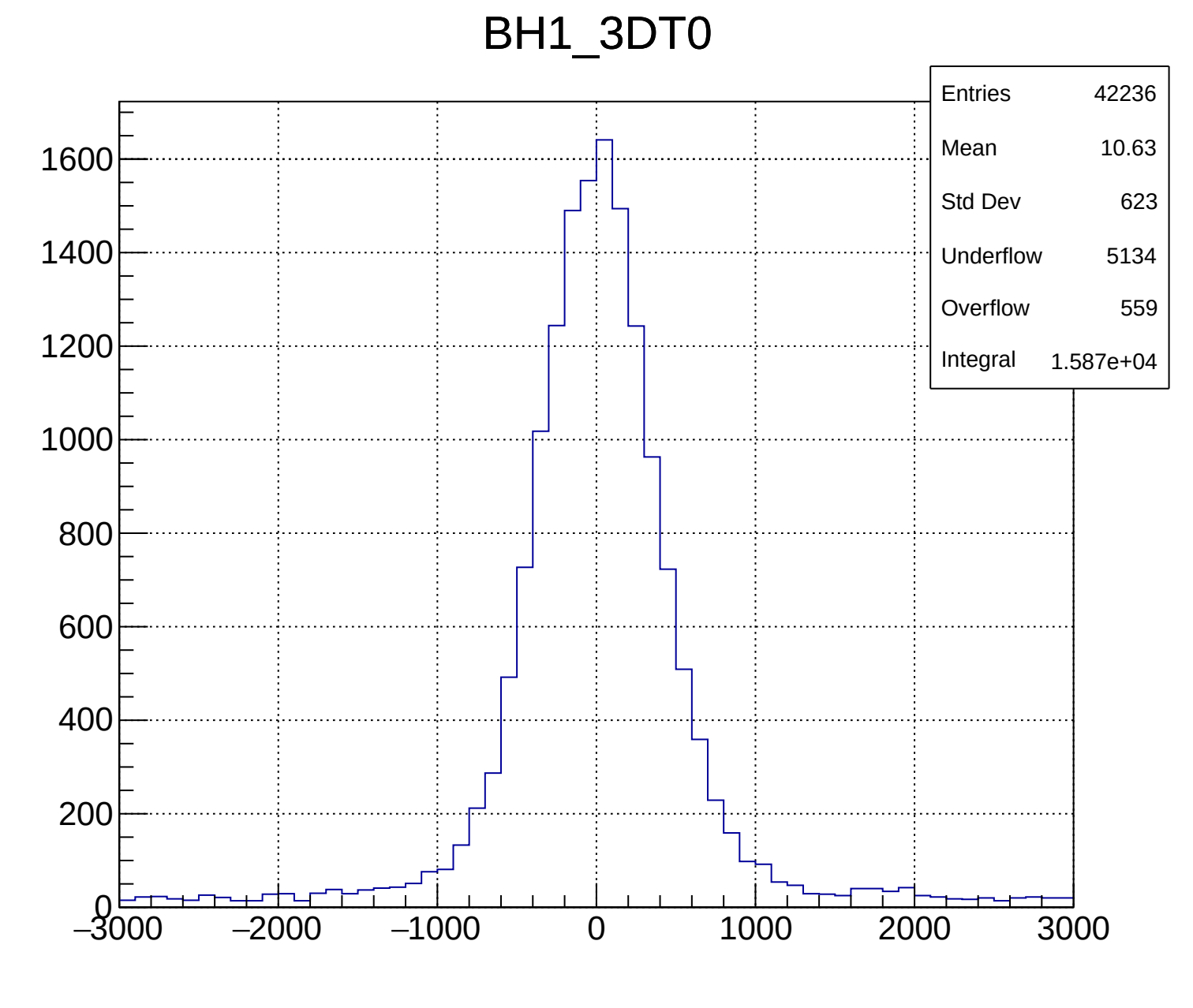
0
1000
2000
3000


BH1_2DT0
Entries 13628
Mean 12.16
Std Dev 632.9
Underflow 1663
Overflow 180
Integral 5058
500
400
300
200
100
0
–3000
–2000
–1000
0
1000
2000
3000


BH1_3DT0
Entries 42236
Mean 10.63
Std Dev 623
Underflow 5134
Overflow 559
Integral 1.587e+04
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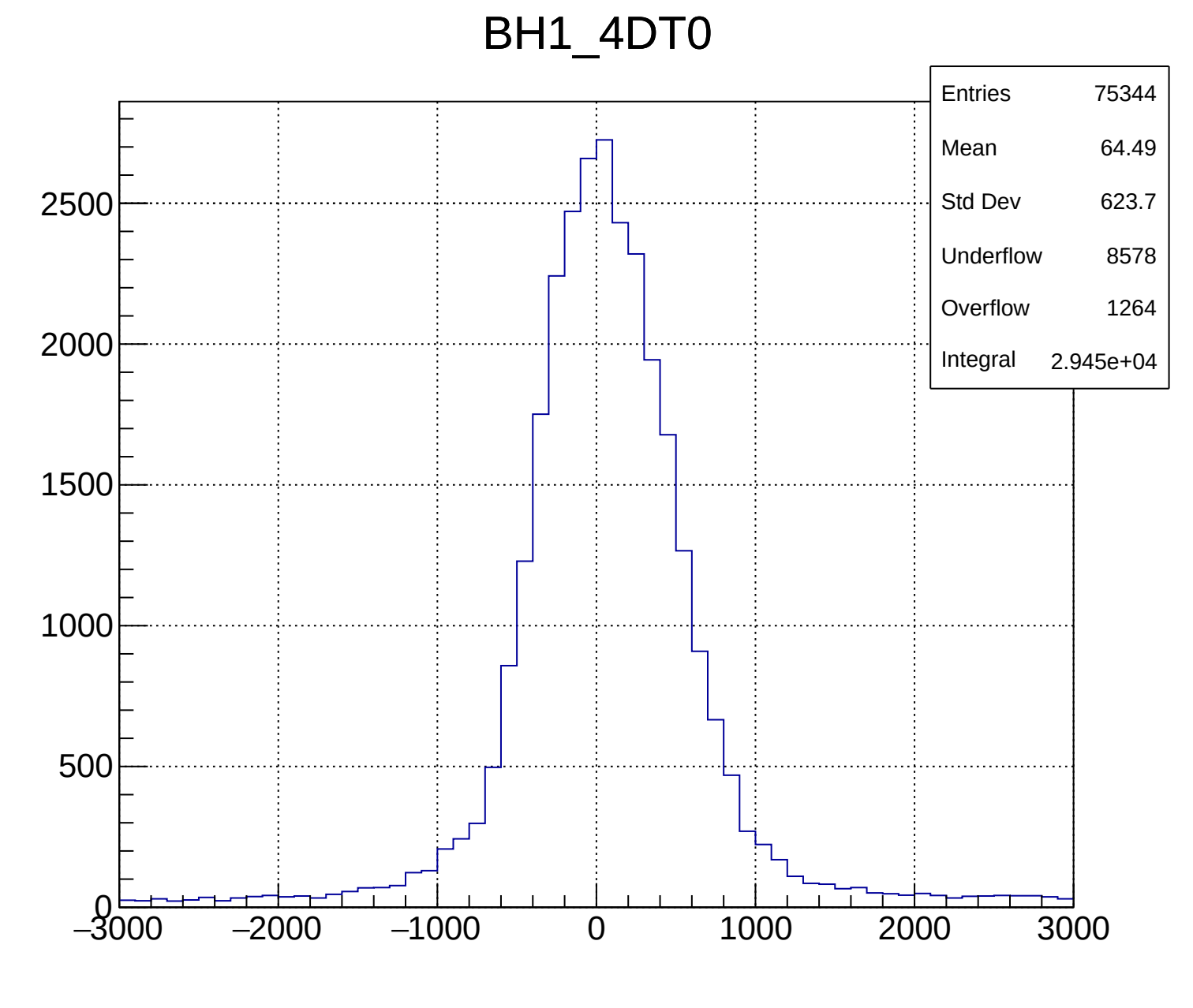
1400
1200
1000
800
600
400
200
0
–3000
–2000
–1000
0
1000
2000
3000


BH1_4DT0
Entries 75344
Mean 64.49
Std Dev 623.7
Underflow 8578
Overflow 1264
Integral 2.945e+04
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2000
1500
1000
500
0
–3000
–2000
–1000
0
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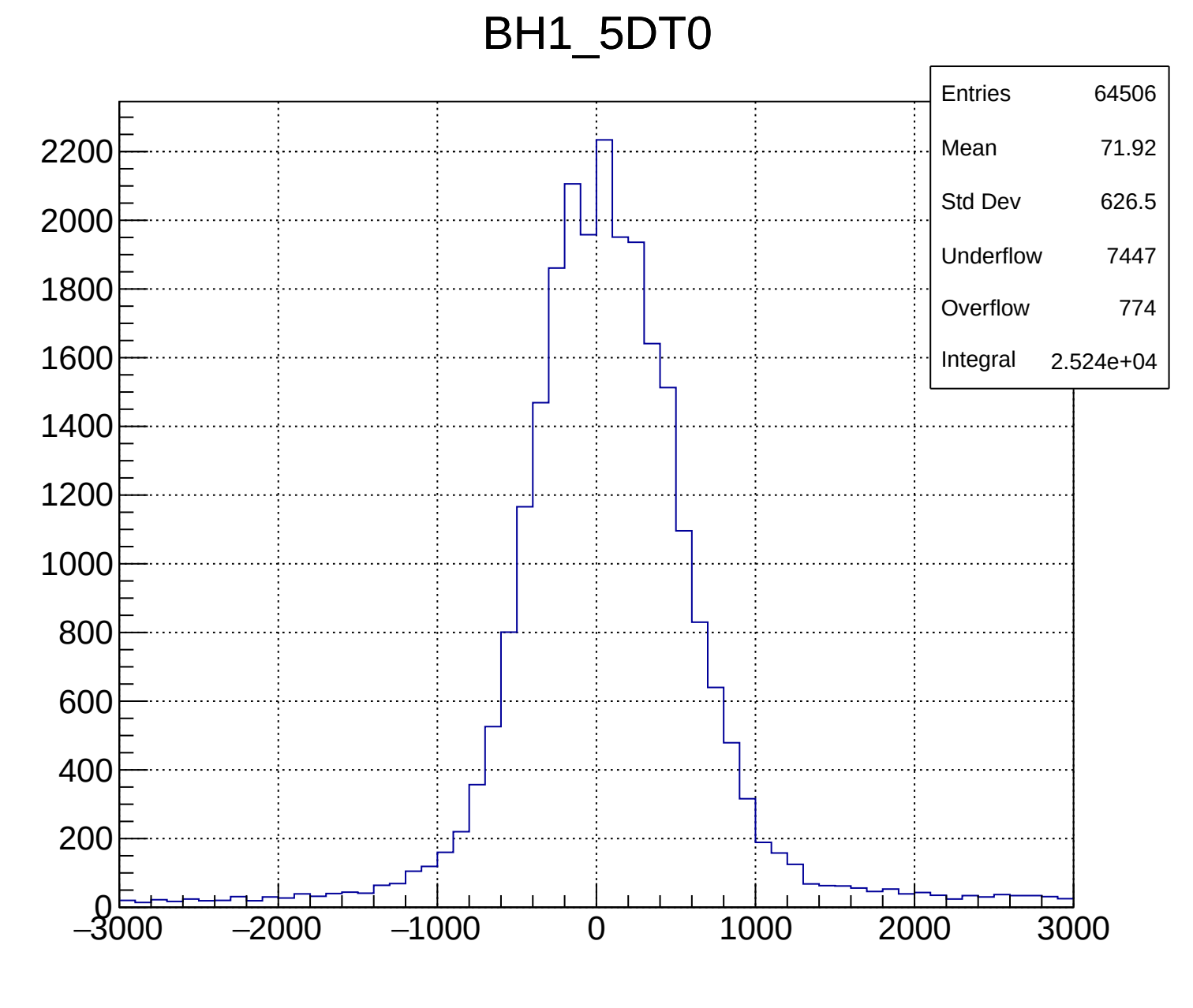
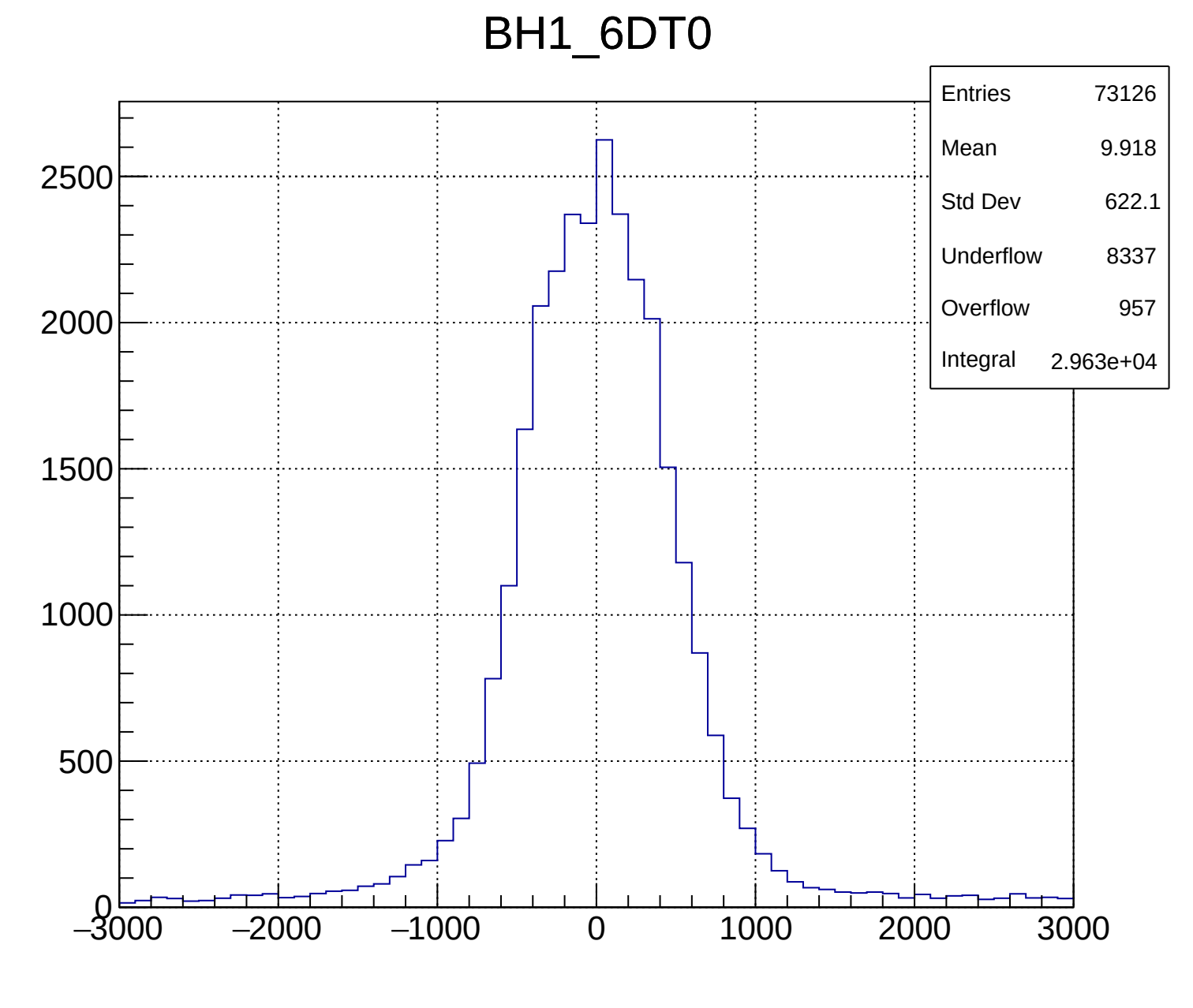
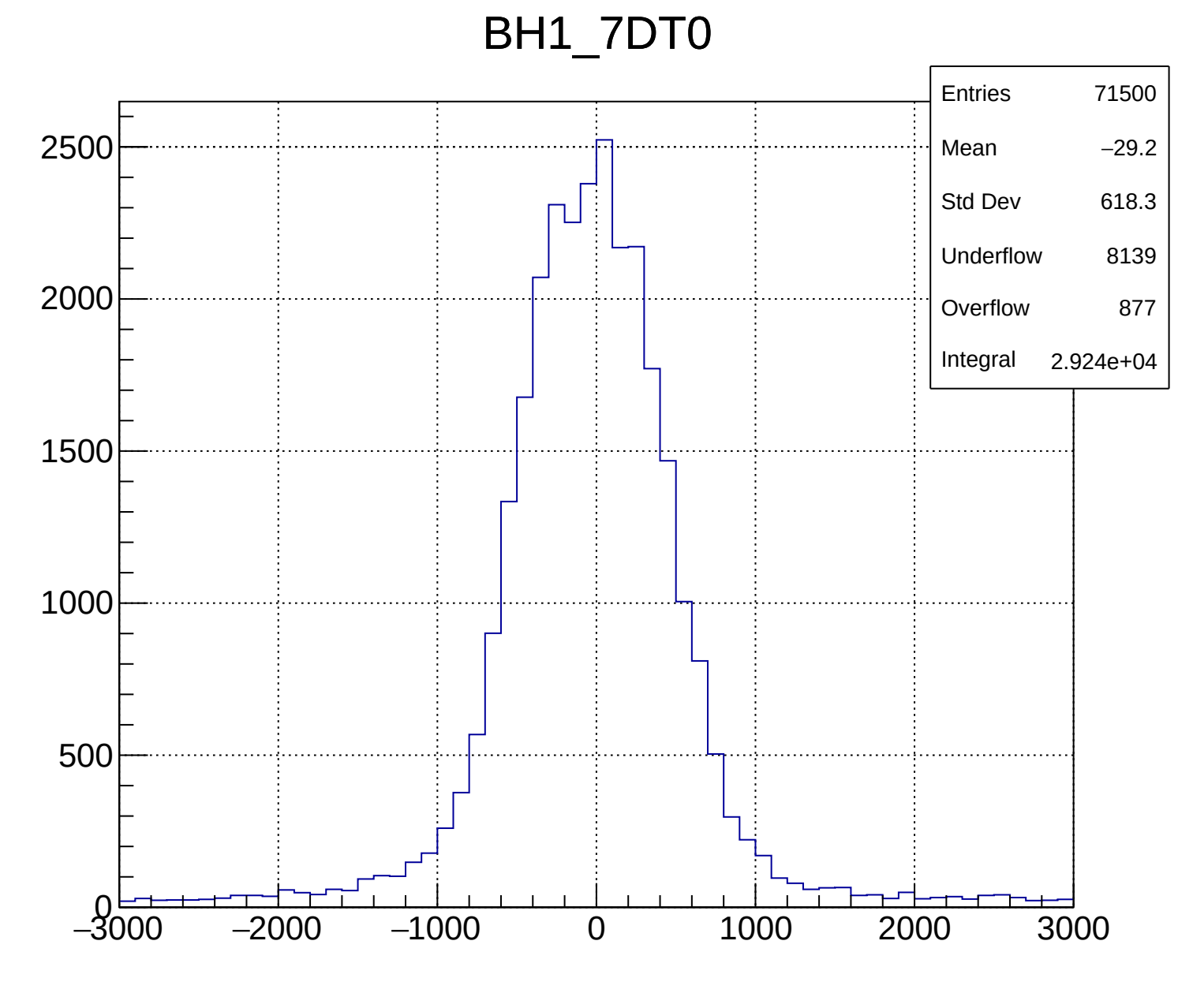
2000
3000


BH1_5DT0
Entries 64506
Mean 71.92
Std Dev 626.5
Underflow 7447
Overflow 774
Integral 2.524e+04
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
–3000
–2000
–1000
0
1000
2000
3000


BH1_6DT0
Entries 73126
Mean 9.918
Std Dev 622.1
Underflow 8337
Overflow 957
Integral 2.963e+04
2500
2000
1500
1000
500
0
–3000
–2000
–1000
0
1000
2000
3000


BH1_7DT0
Entries 71500
Mean −29.2
Std Dev 618.3
Underflow 8139
Overflow 877
Integral 2.924e+04
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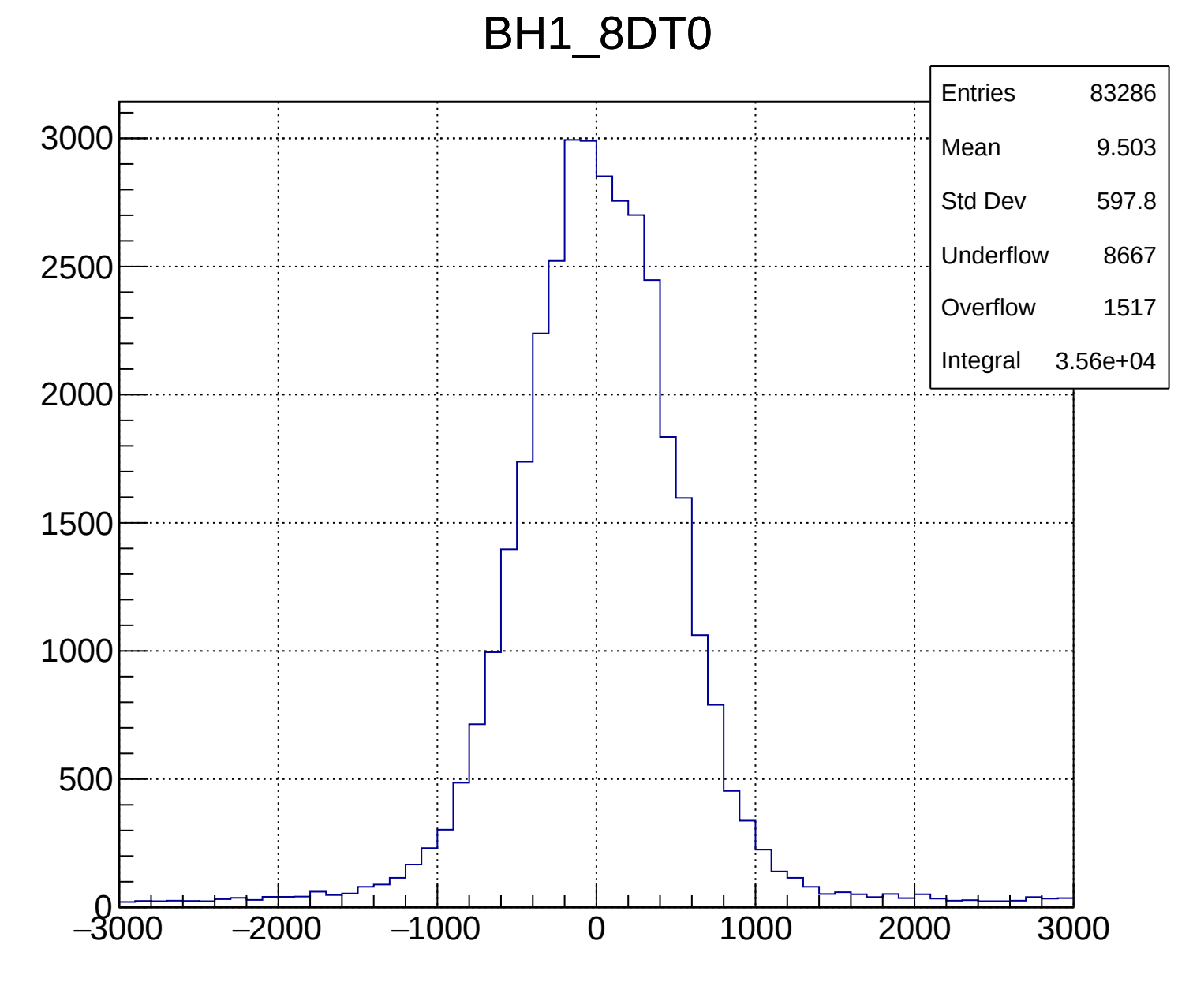
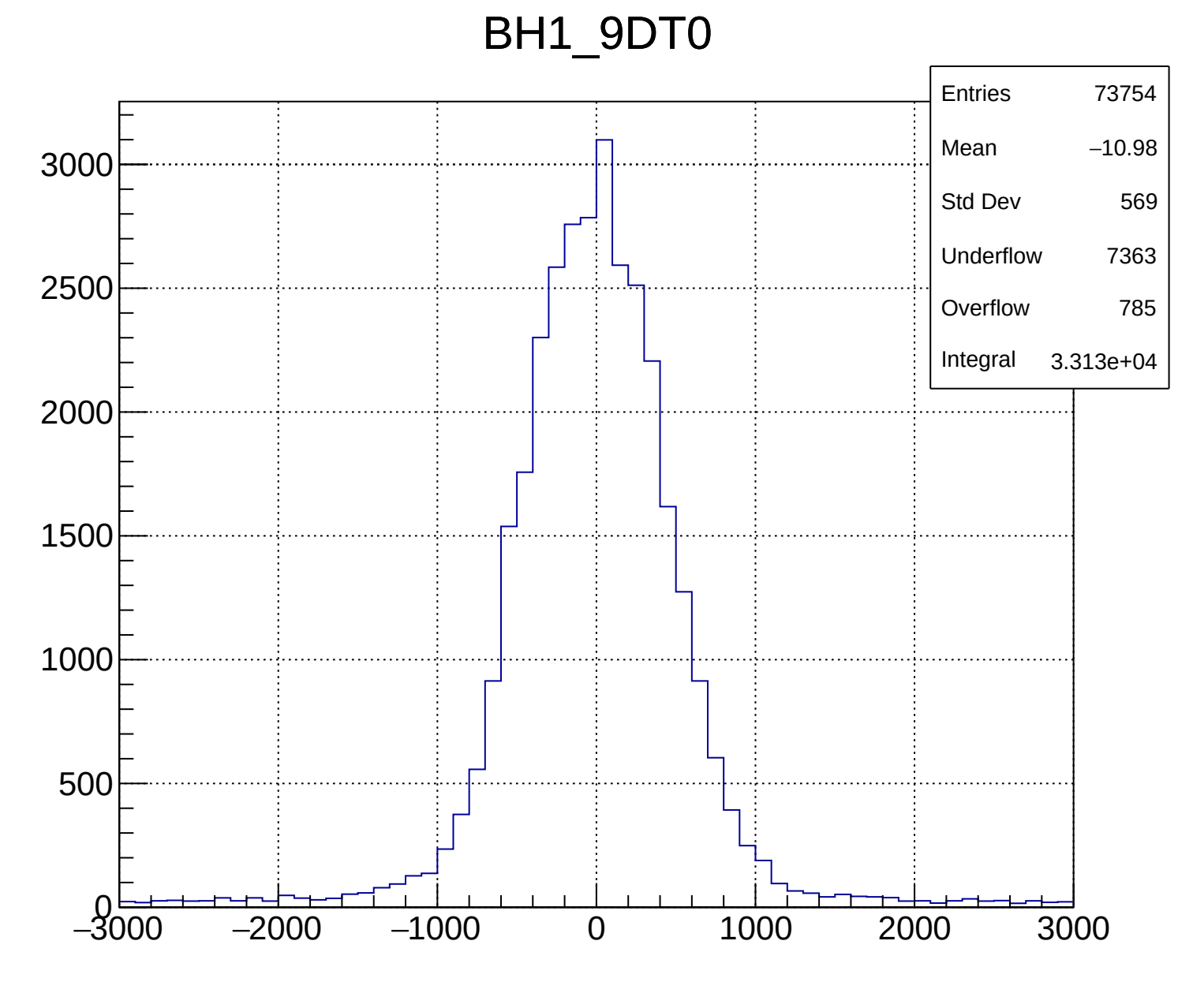
2000
1500
1000
500
0
−3000
−2000
−1000
0
1000
2000
3000


BH1_8DT0
Entries 83286
Mean 9.503
Std Dev 597.8
Underflow 8667
Overflow 1517
Integral 3.56e+04
3000
2500
2000
1500
1000
500
0
–3000
–2000
–1000
0
1000
2000
3000


BH1_9DT0
Entries 73754
Mean –10.98
Std Dev 569
Underflow 7363
Overflow 785
Integral 3.313e+04
3000
2500
2000
1500
1000
500
0
–3000
–2000
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0
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2000
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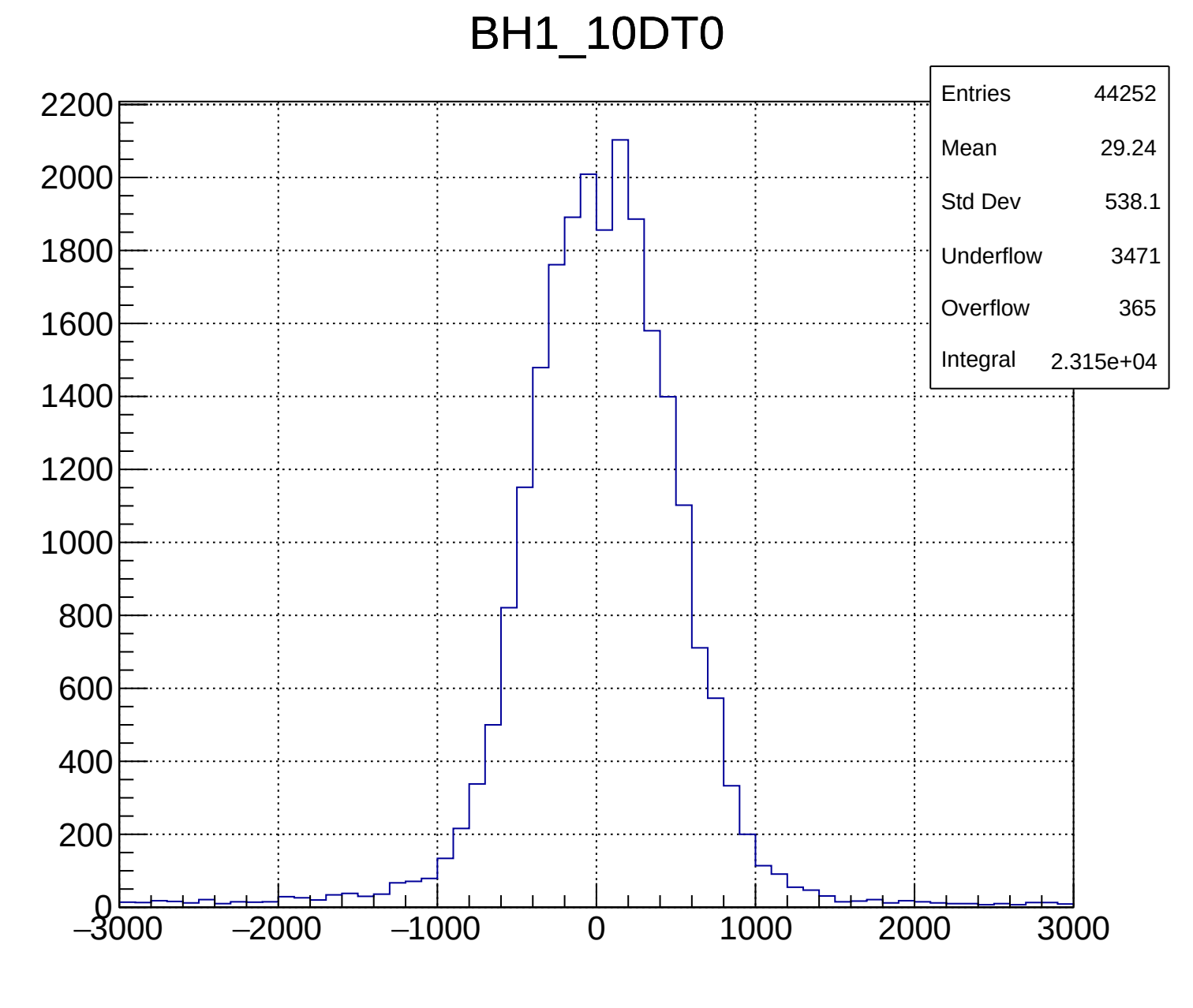
BH1_10DT0
Entries 44252
Mean 29.24
Std Dev 538.1
Underflow 3471
Overflow 365
Integral 2.315e+04
2200
2000
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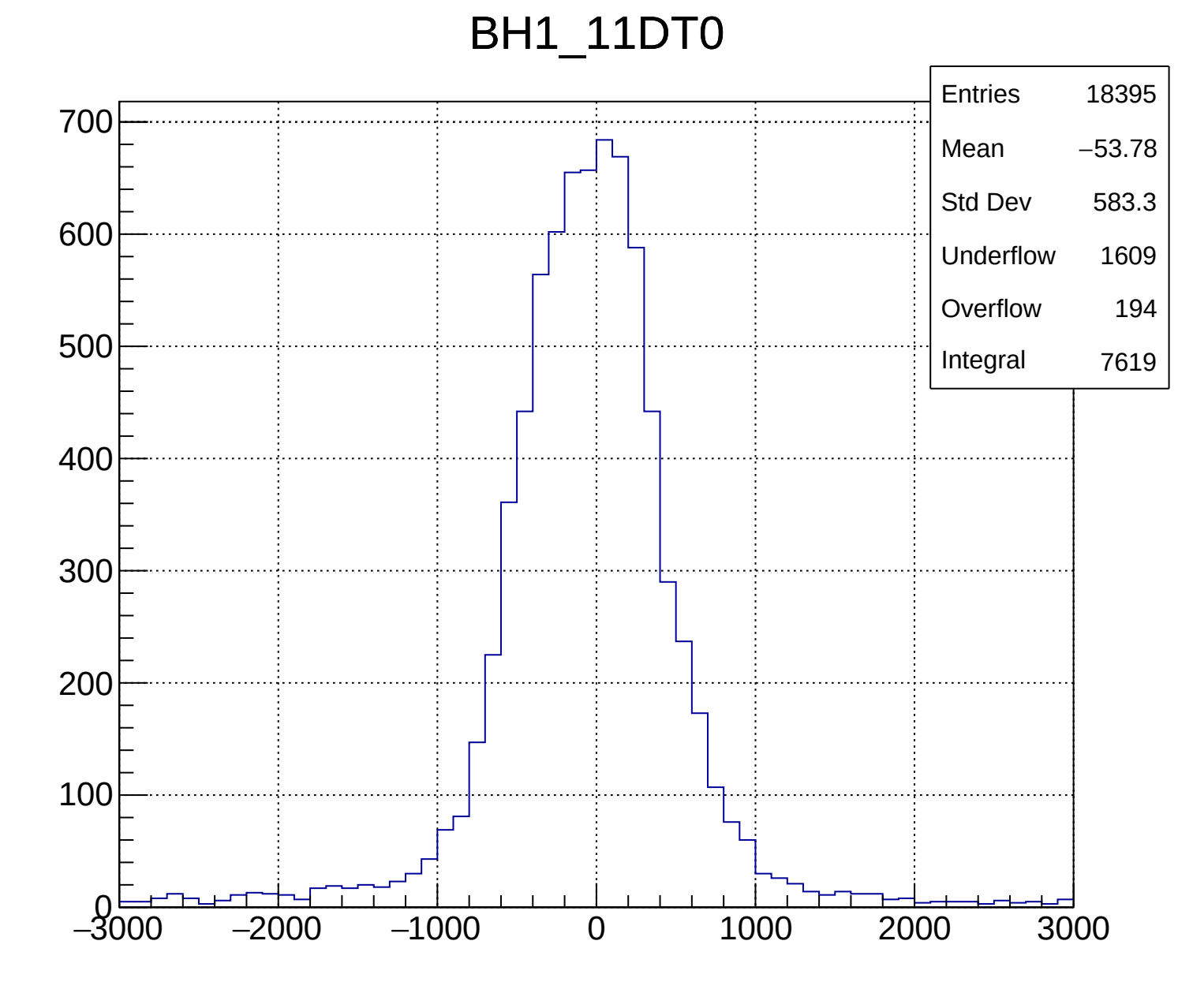
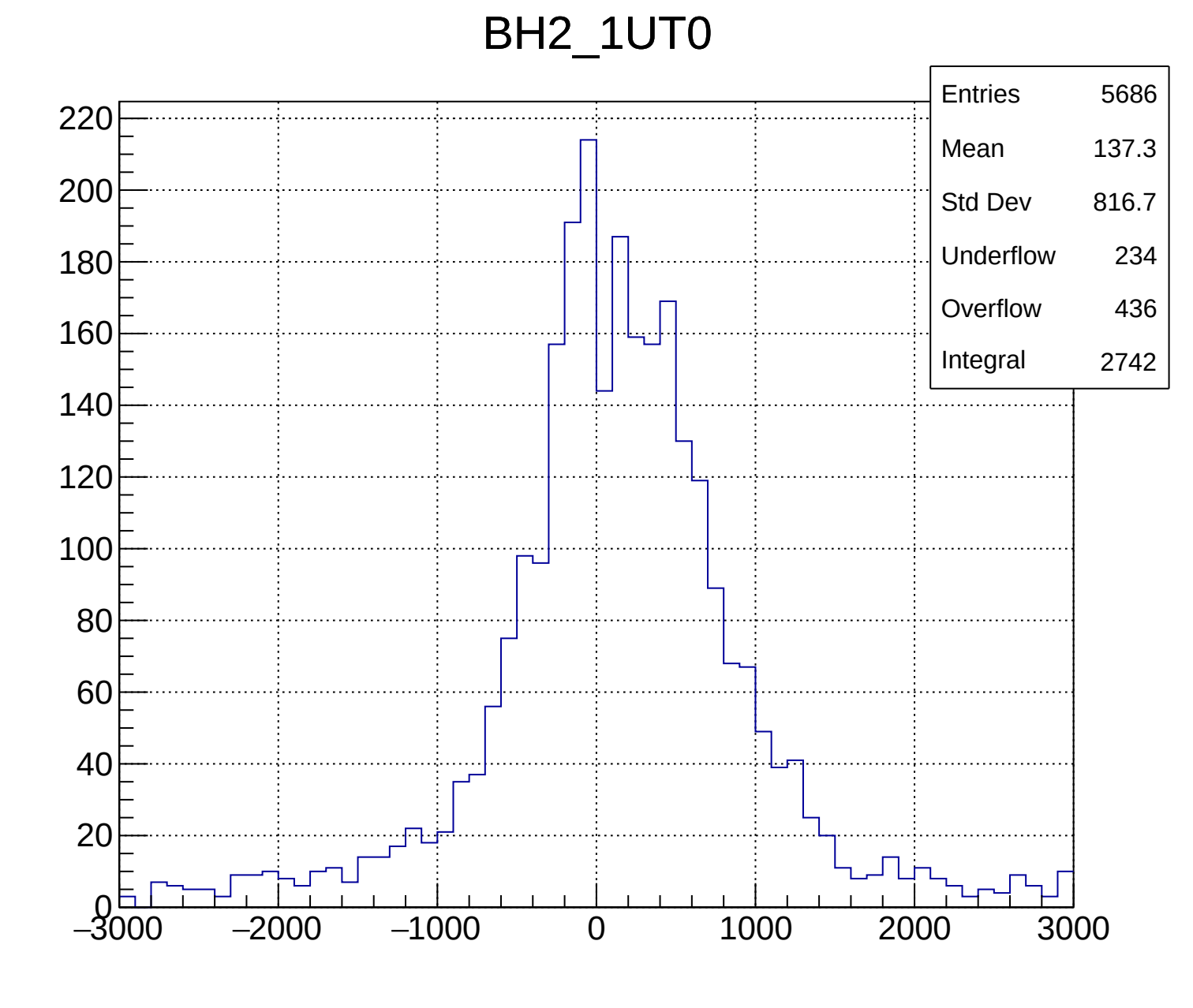
1600
1400
1200
1000
800
600
400
200
0
–3000
–2000
–1000
0
1000
2000
3000


BH1_11DT0
Entries 18395
Mean −53.78
Std Dev 583.3
Underflow 1609
Overflow 194
Integral 7619
700
600
500
400
300
200
100
0
−3000
−2000
−1000
0
1000
2000
3000


BH2_1UT0
Entries 5686
Mean 137.3
Std Dev 816.7
Underflow 234
Overflow 436
Integral 2742
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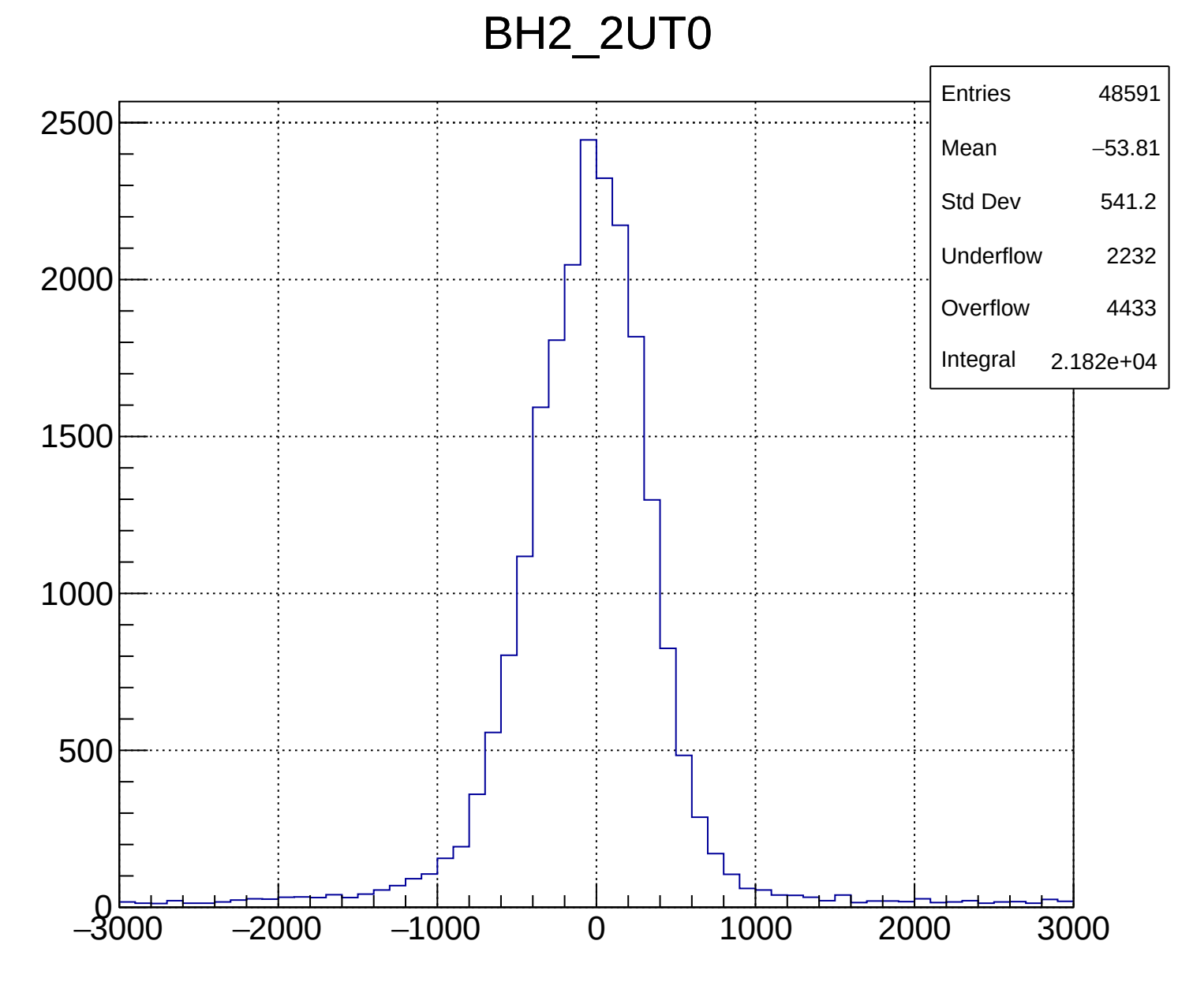
BH2_2UT0
Entries 48591
Mean –53.81
Std Dev 541.2
Underflow 2232
Overflow 4433
Integral 2.182e+04
2500
2000
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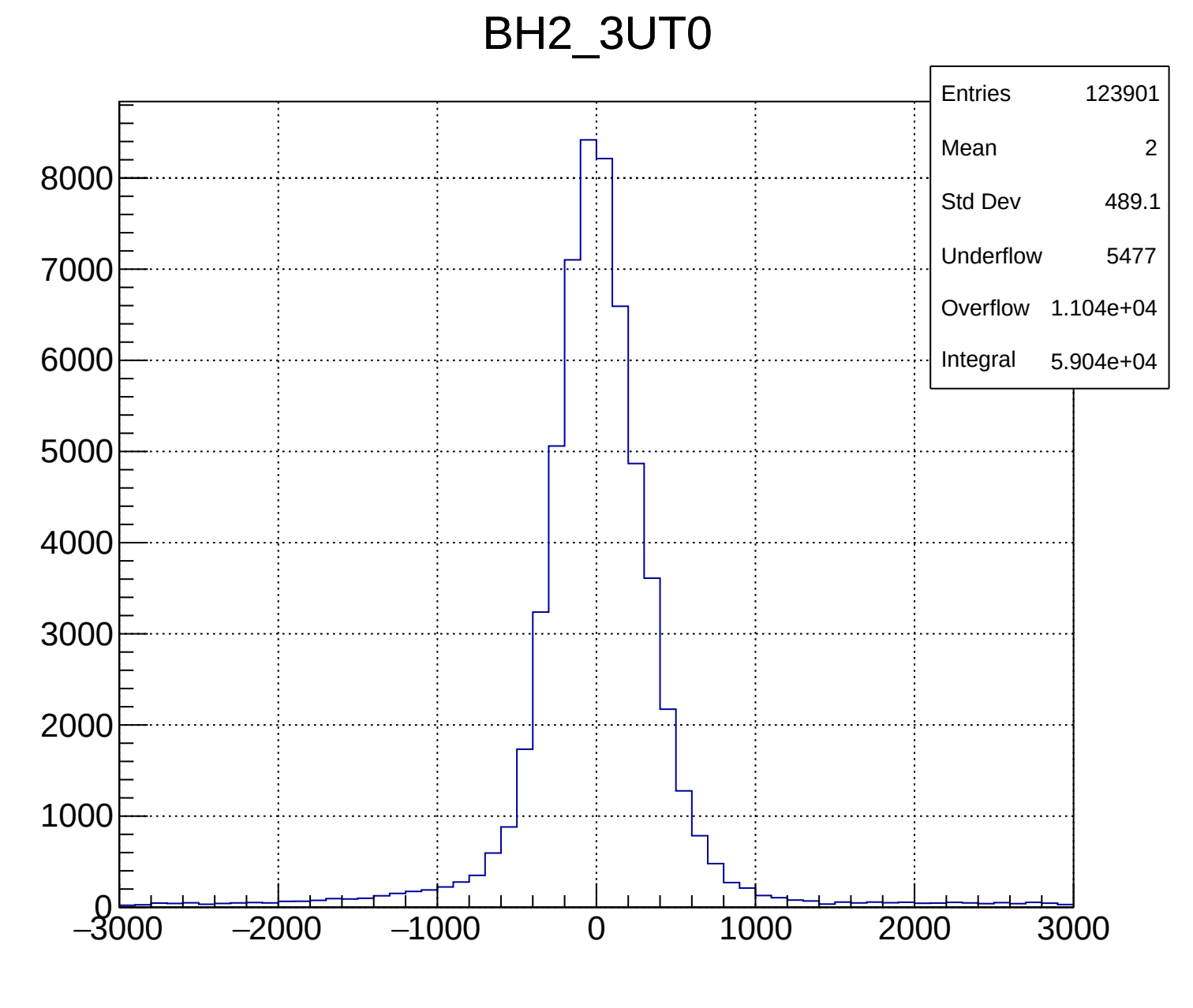
BH2_3UT0
Entries 123901
Mean 2
Std Dev 489.1
Underflow 5477
Overflow 1.104e+04
Integral 5.904e+04
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7000
6000
5000
4000
3000
2000
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2000
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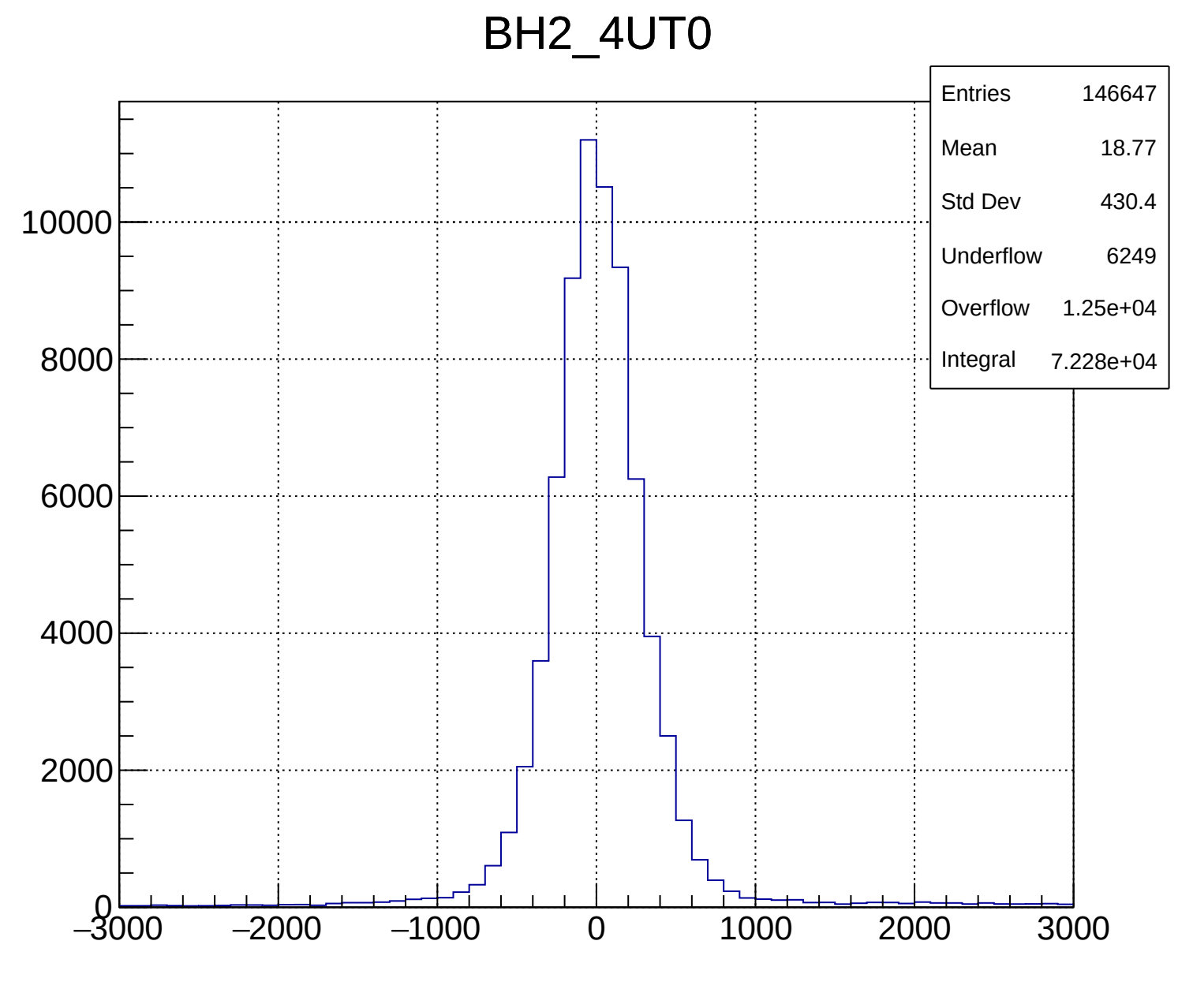
BH2_4UT0
Entries 146647
Mean 18.77
Std Dev 430.4
Underflow 6249
Overflow 1.25e+04
Integral 7.228e+04
10000
8000
6000
4000
2000
0
–3000
–2000
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2000
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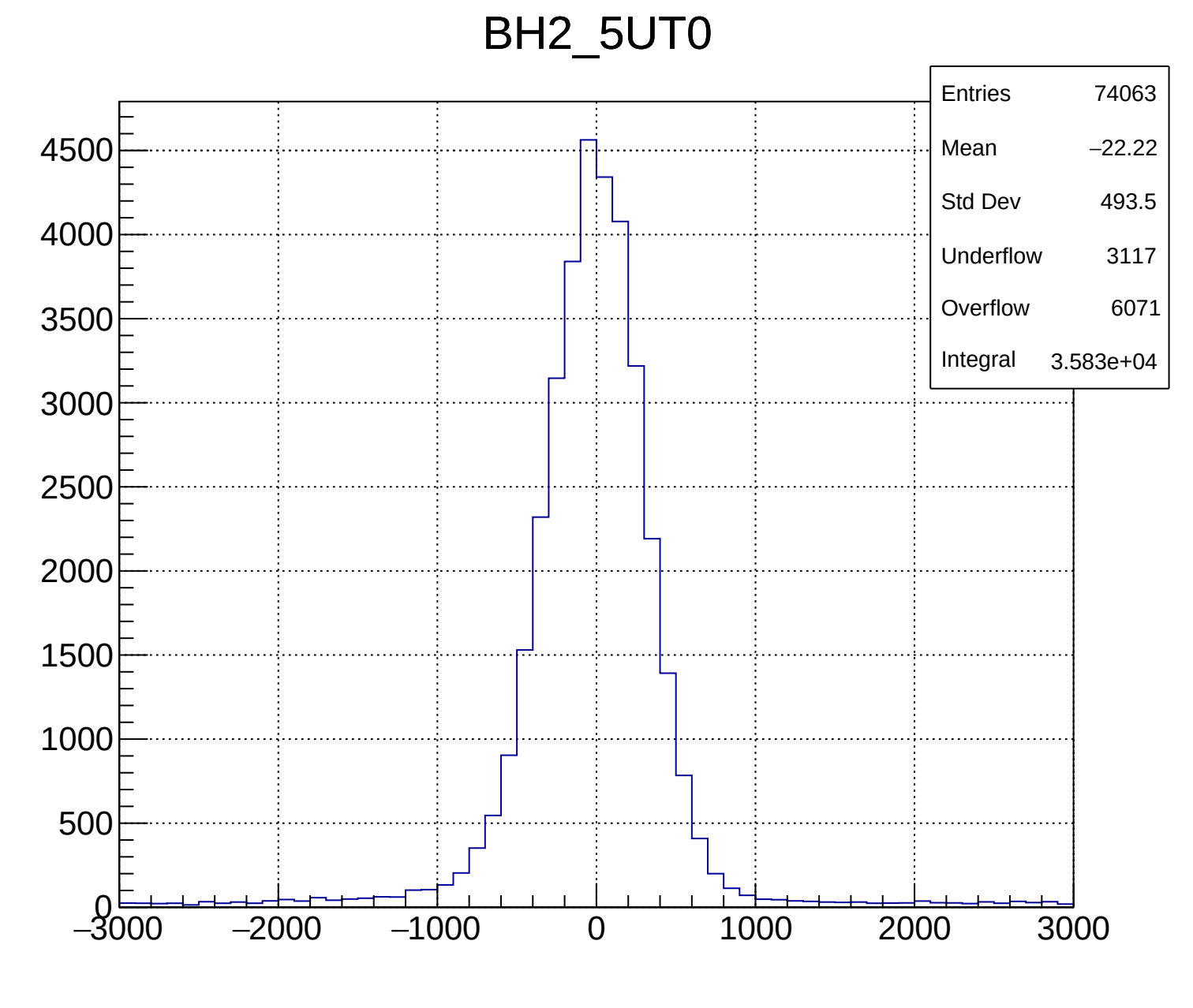
BH2_5UT0
Entries 74063
Mean –22.22
Std Dev 493.5
Underflow 3117
Overflow 6071
Integral 3.583e+04
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3500
3000
2500
2000
1500
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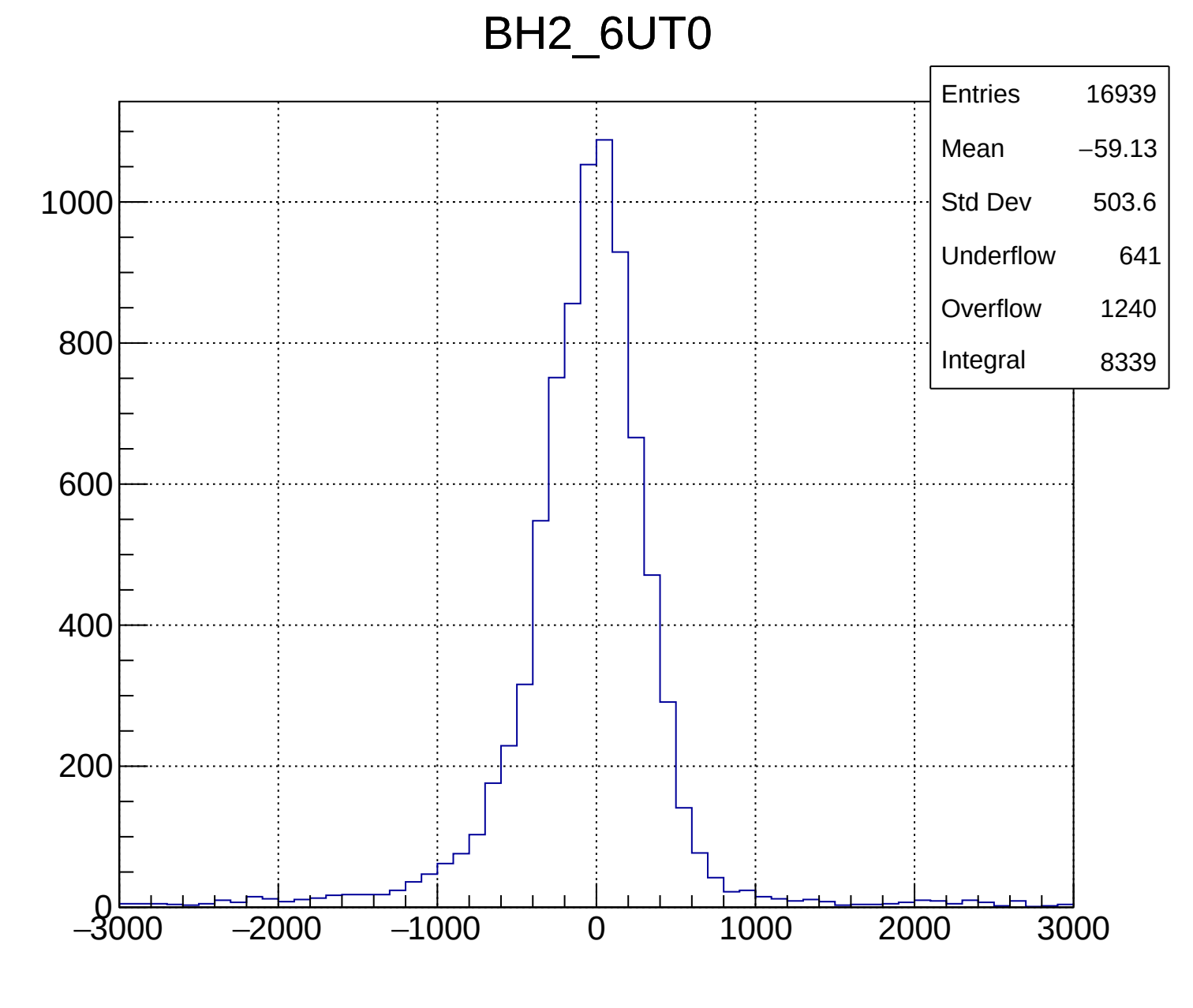
BH2_6UT0
Entries 16939
Mean −59.13
Std Dev 503.6
Underflow 641
Overflow 1240
Integral 8339
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800
600
400
200
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−3000
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−1000
0
1000
2000
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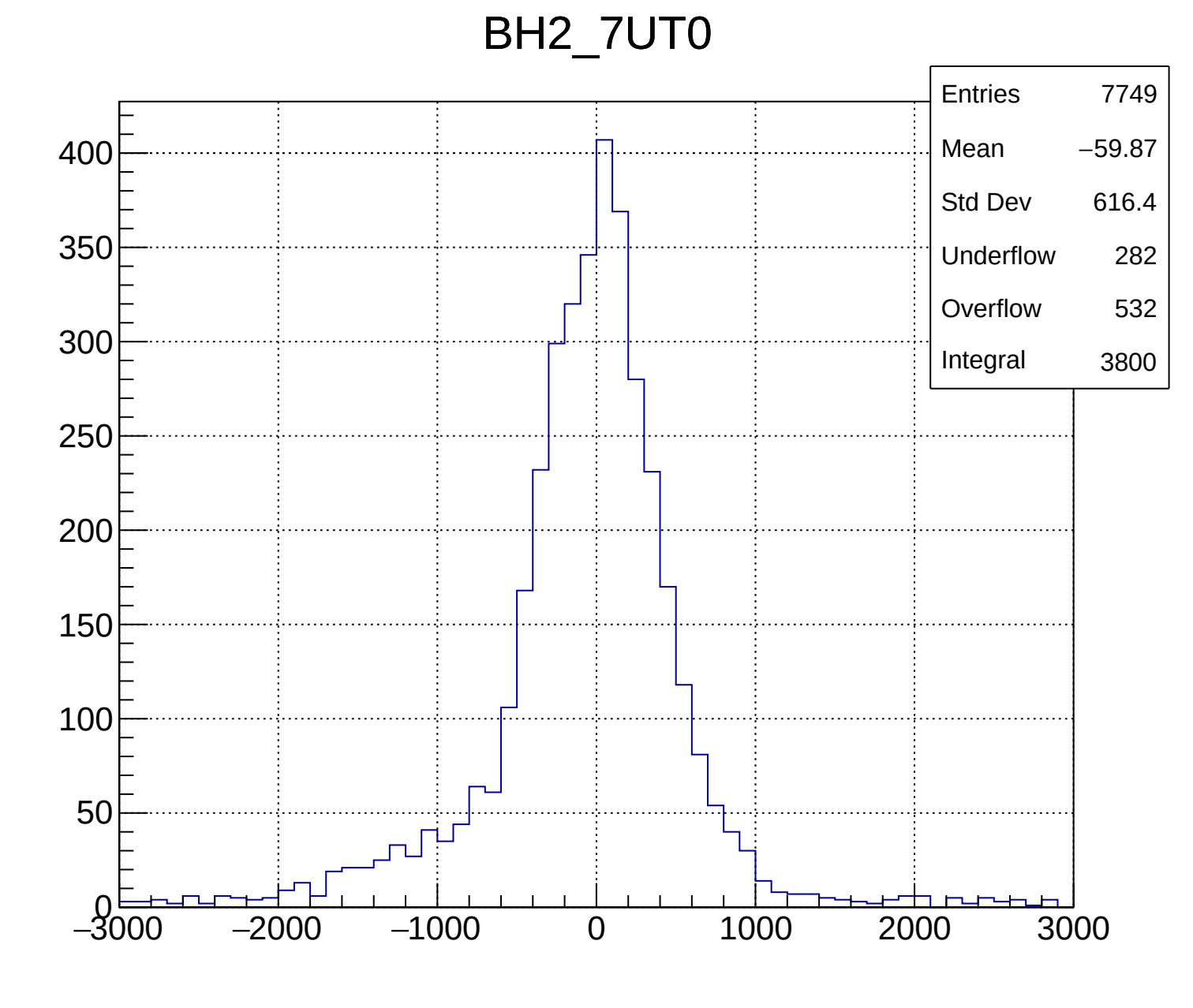
BH2_7UT0
Entries 7749
Mean −59.87
Std Dev 616.4
Underflow 282
Overflow 532
Integral 3800
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350
300
250
200
150
100
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0
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2000
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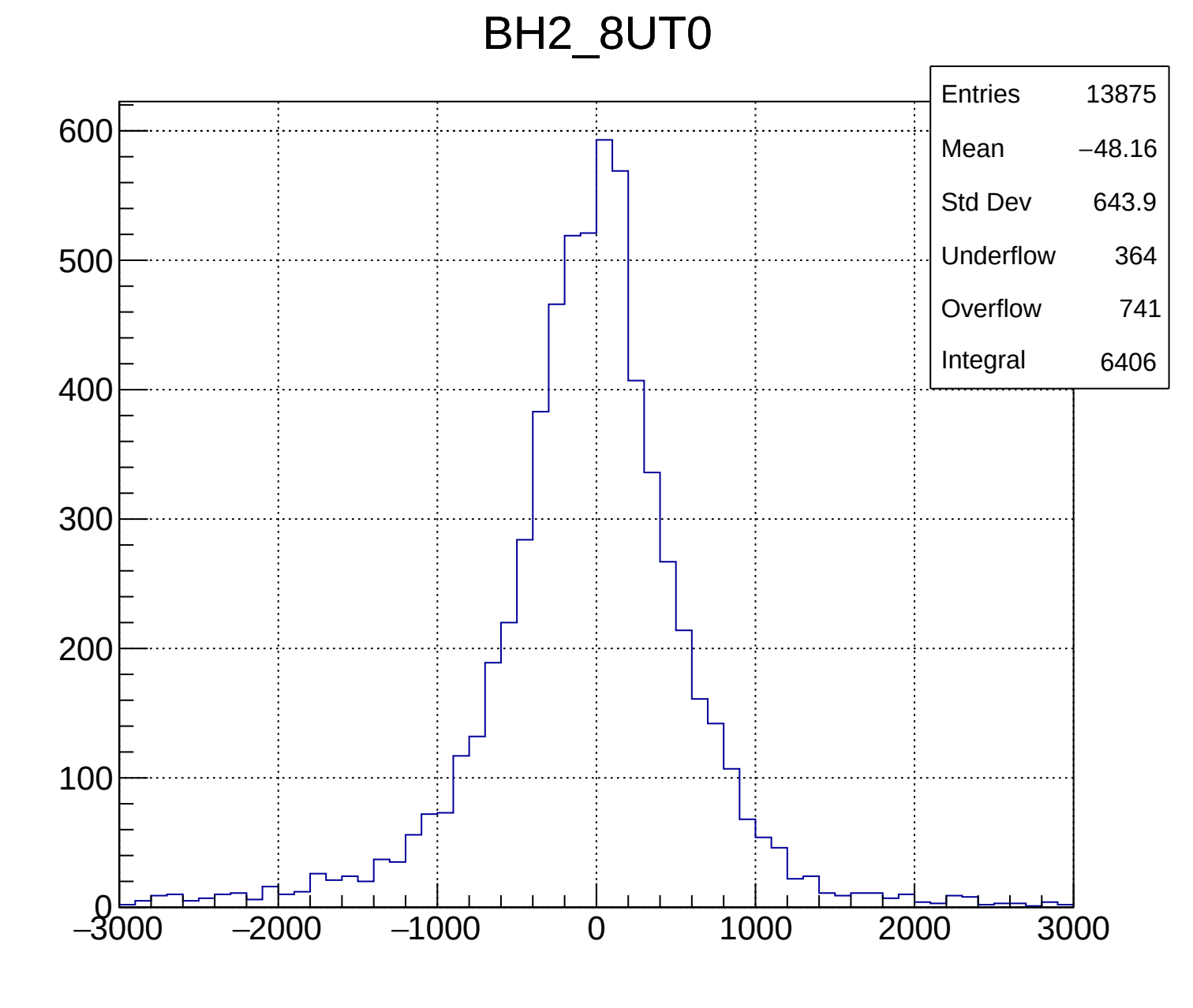
BH2_8UT0
Entries 13875
Mean −48.16
Std Dev 643.9
Underflow 364
Overflow 741
Integral 6406
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500
400
300
200
100
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−2000
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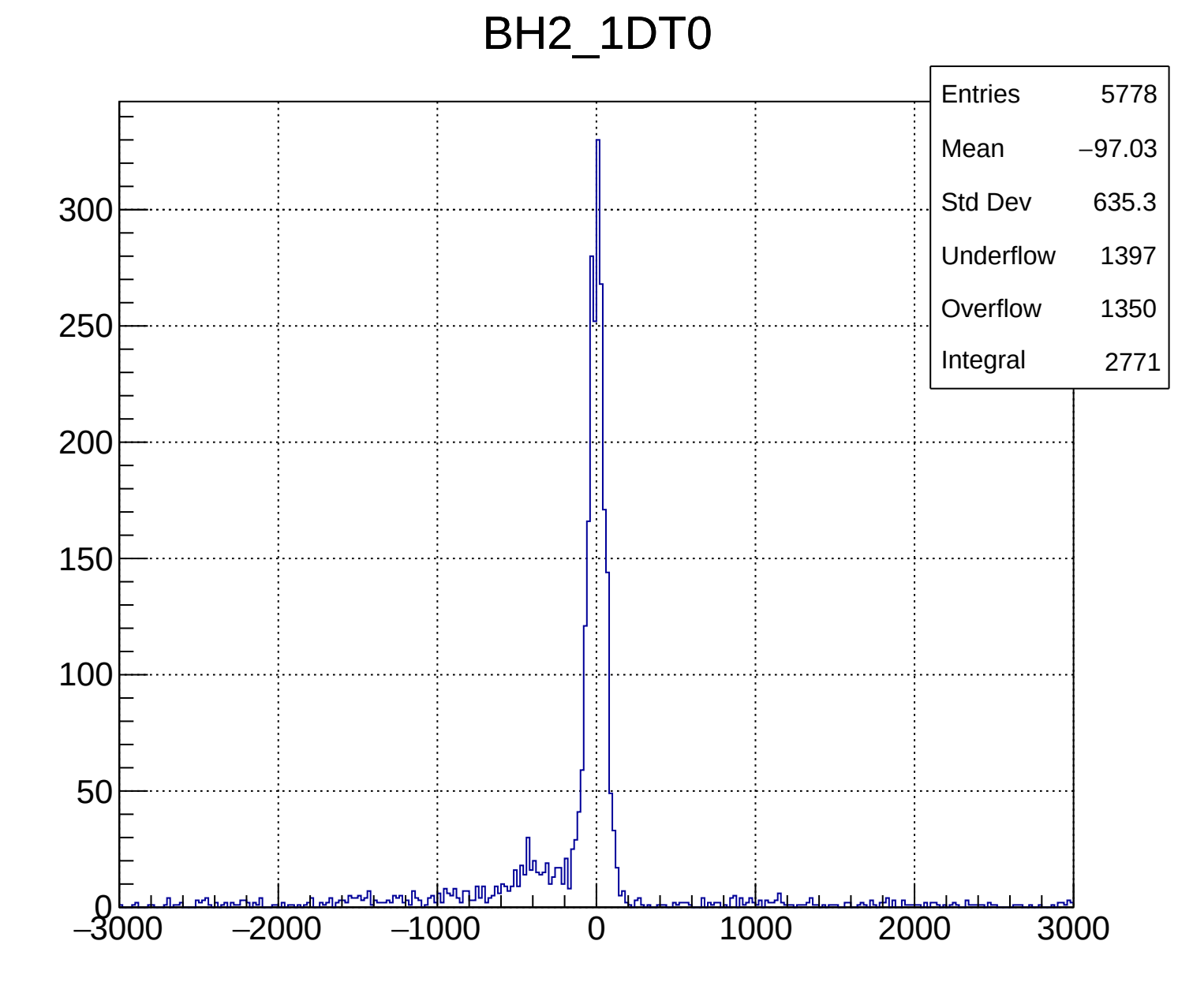
0
1000
2000
3000


BH2_1DT0
Entries 5778
Mean −97.03
Std Dev 635.3
Underflow 1397
Overflow 1350
Integral 2771
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250
200
150
100
50
0
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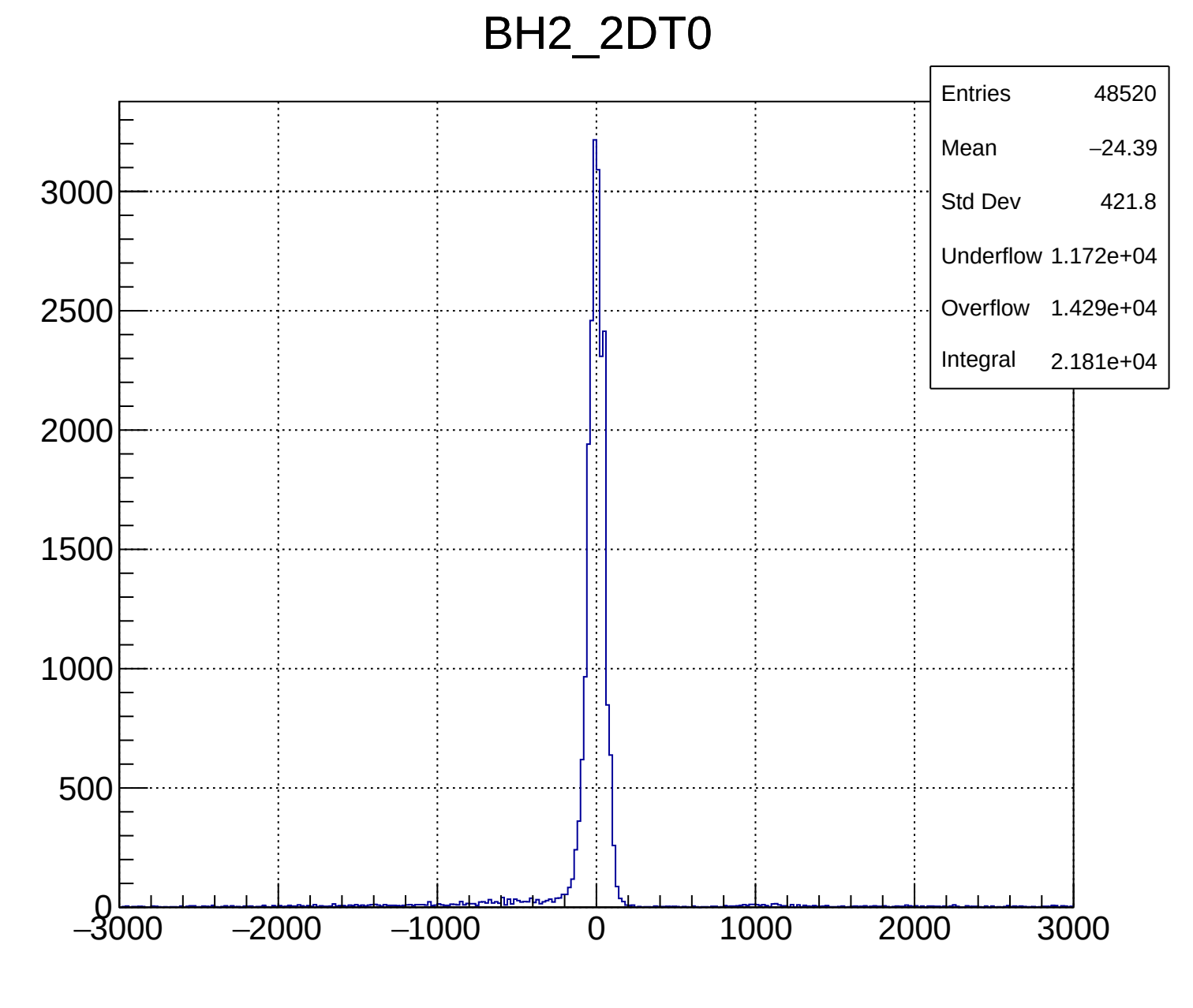
−2000
−1000
0
1000
2000
3000


BH2_2DT0
Entries 48520
Mean –24.39
Std Dev 421.8
Underflow 1.172e+04
Overflow 1.429e+04
Integral 2.181e+04
3000
2500
2000
1500
1000
500
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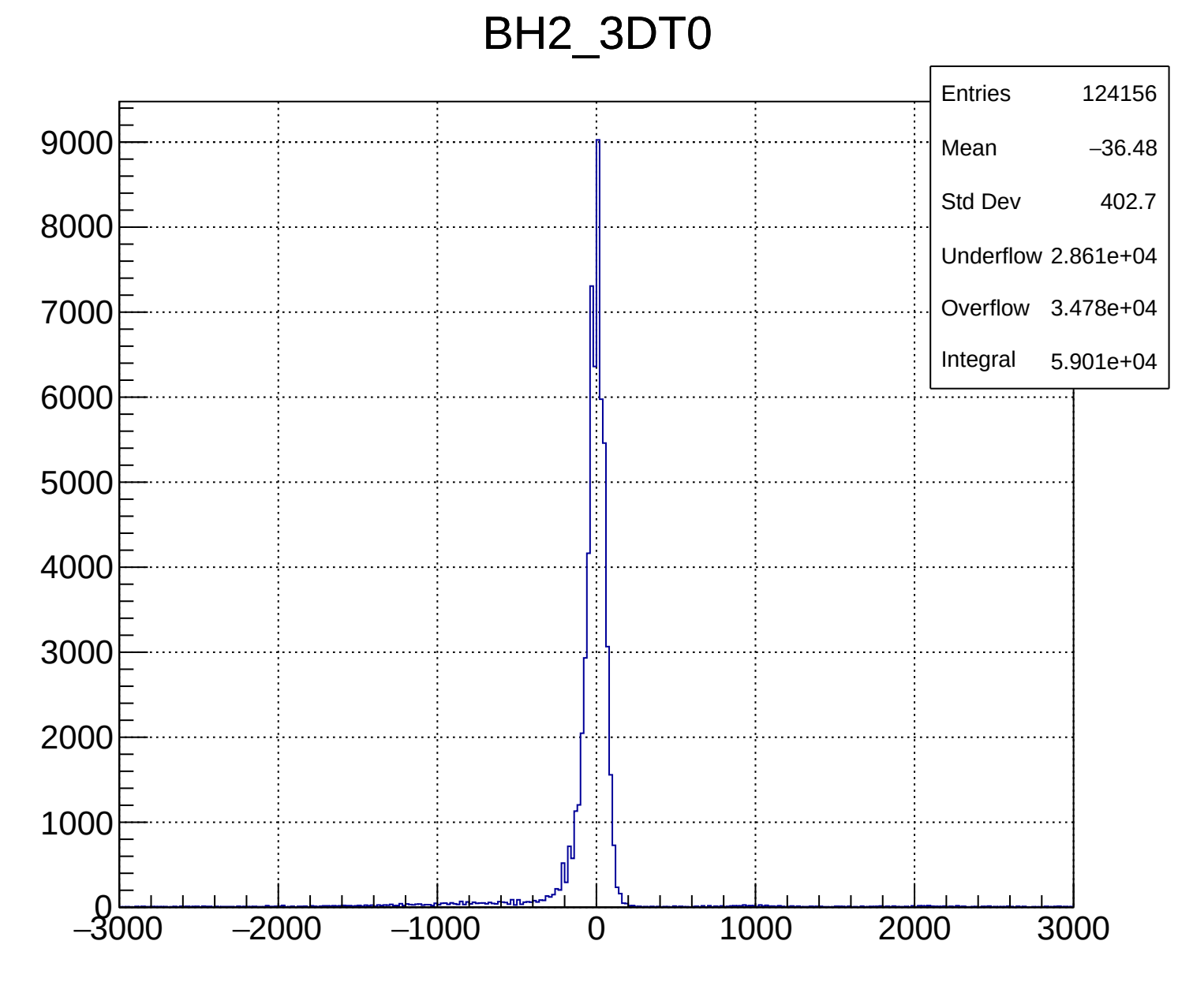
0
1000
2000
3000


BH2_3DT0
Entries 124156
Mean –36.48
Std Dev 402.7
Underflow 2.861e+04
Overflow 3.478e+04
Integral 5.901e+04
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8000
7000
6000
5000
4000
3000
2000
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–3000
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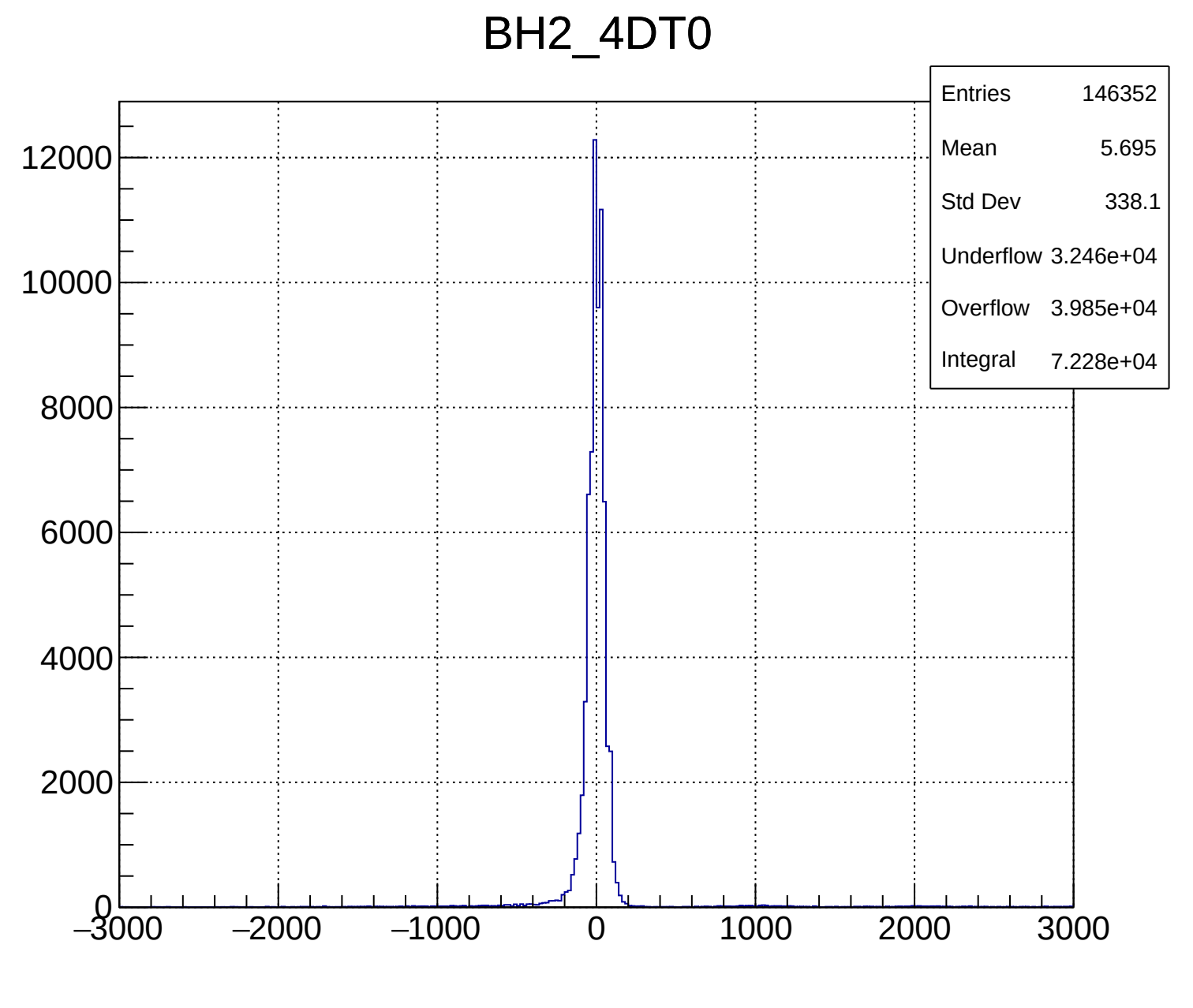
–1000
0
1000
2000
3000


BH2_4DT0
Entries 146352
Mean 5.695
Std Dev 338.1
Underflow 3.246e+04
Overflow 3.985e+04
Integral 7.228e+04
12000
10000
8000
6000
4000
2000
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–3000
–2000
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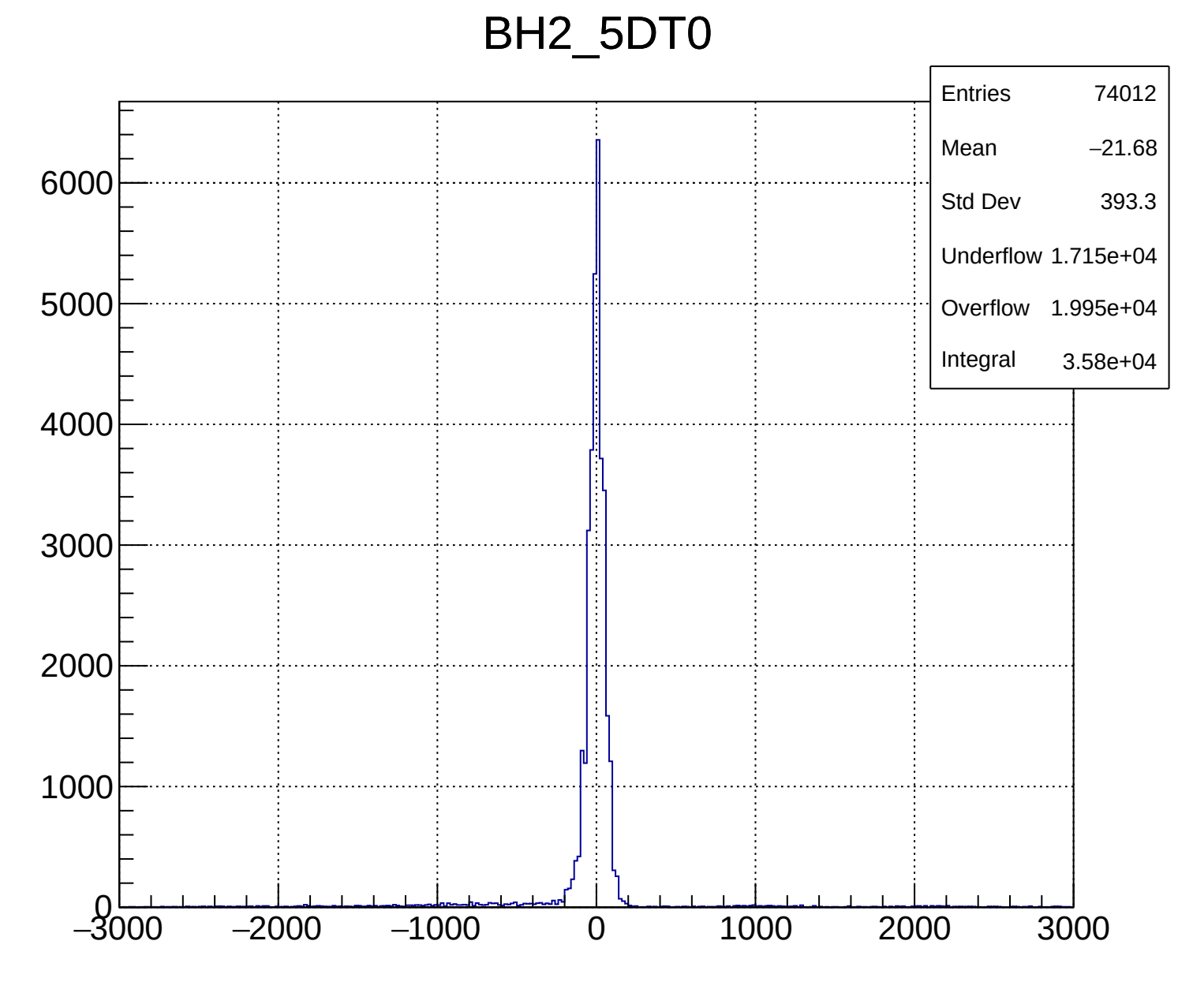
0
1000
2000
3000


BH2_5DT0
Entries 74012
Mean –21.68
Std Dev 393.3
Underflow 1.715e+04
Overflow 1.995e+04
Integral 3.58e+04
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5000
4000
3000
2000
1000
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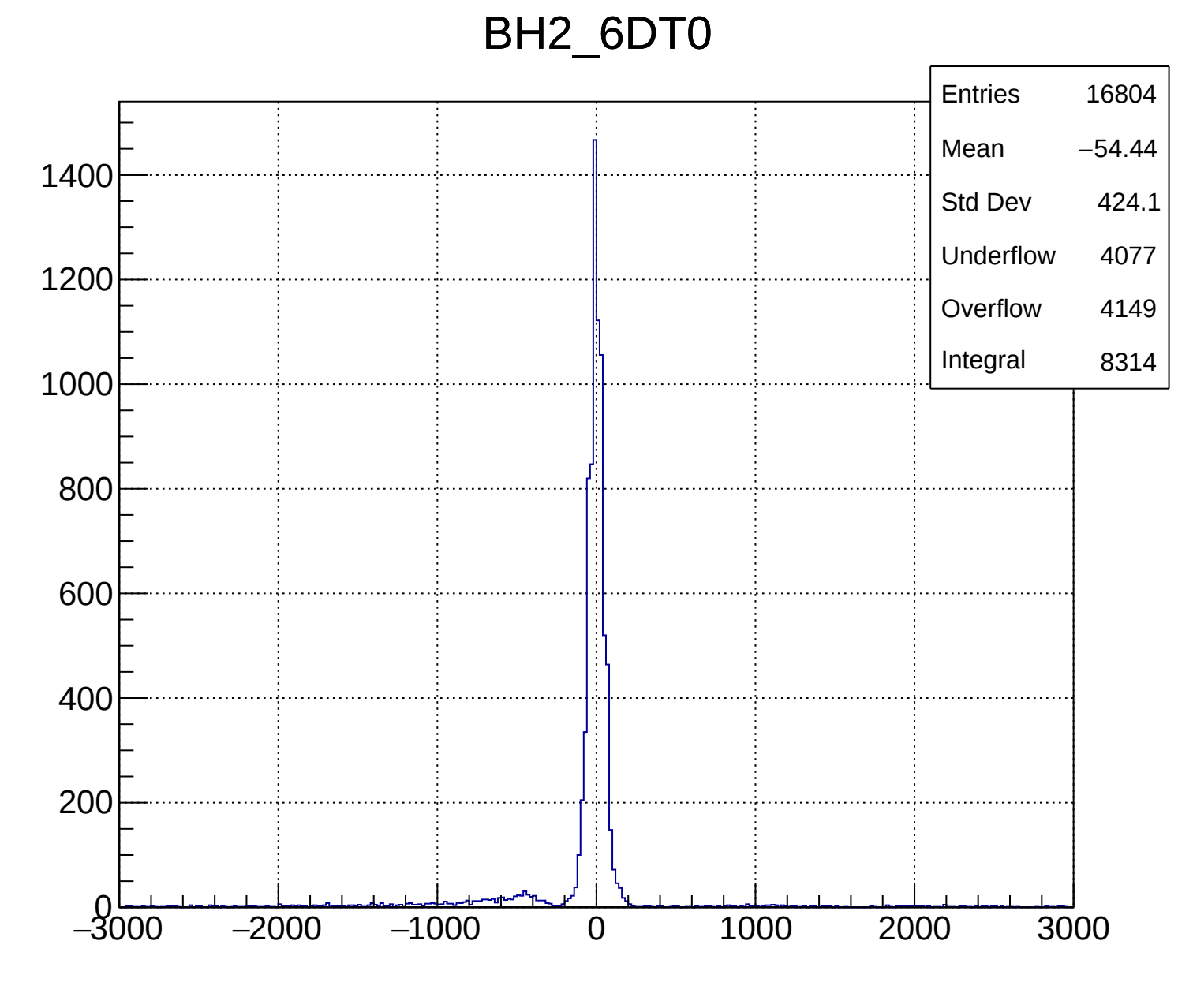
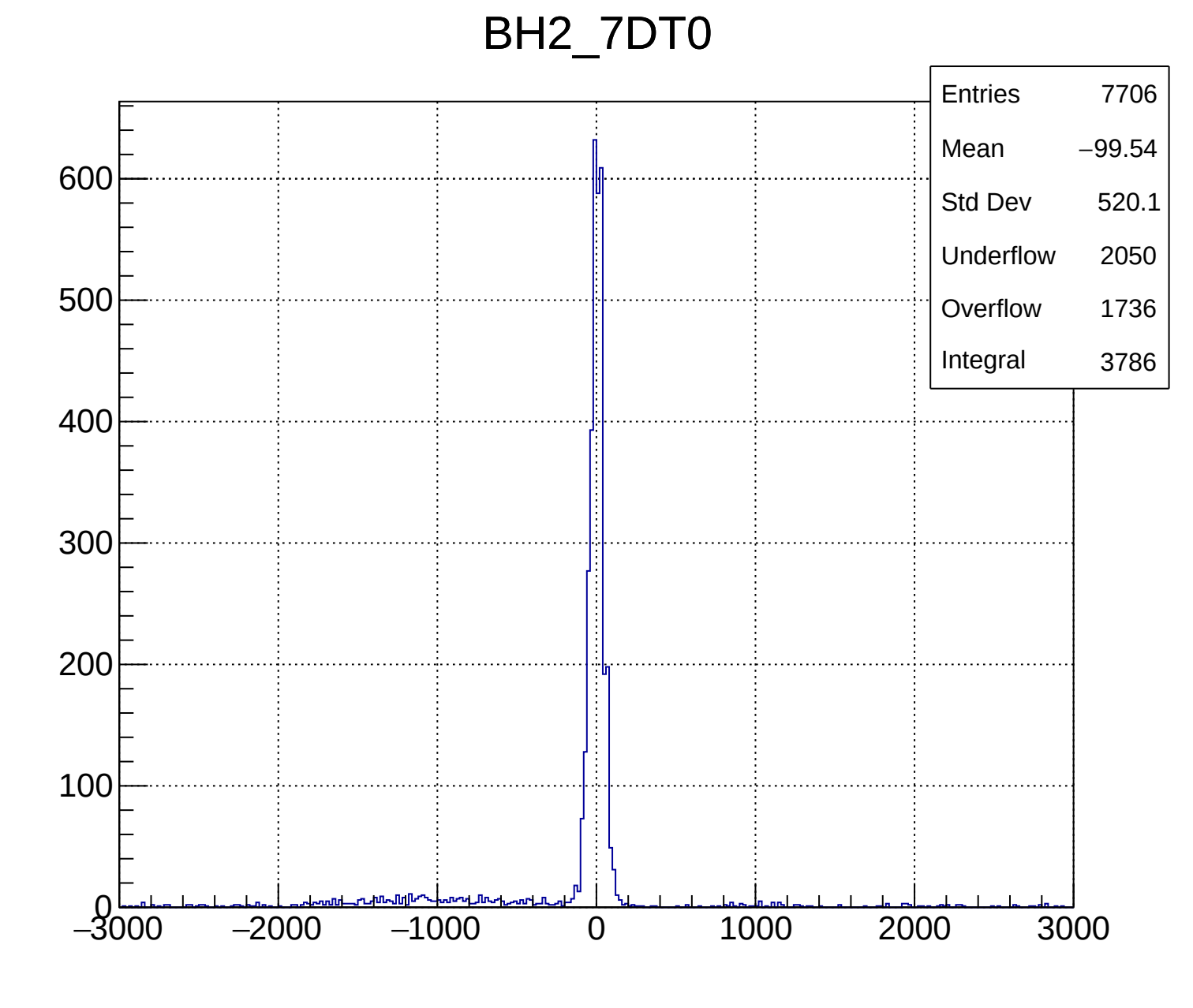
–3000
–2000
–1000
0
1000
2000
3000


BH2_6DT0
Entries 16804
Mean −54.44
Std Dev 424.1
Underflow 4077
Overflow 4149
Integral 8314
1400
1200
1000
800
600
400
200
0
−3000
−2000
−1000
0
1000
2000
3000


BH2_7DT0
Entries 7706
Mean −99.54
Std Dev 520.1
Underflow 2050
Overflow 1736
Integral 3786
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500
400
300
200
100
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−3000
−2000
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0
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2000
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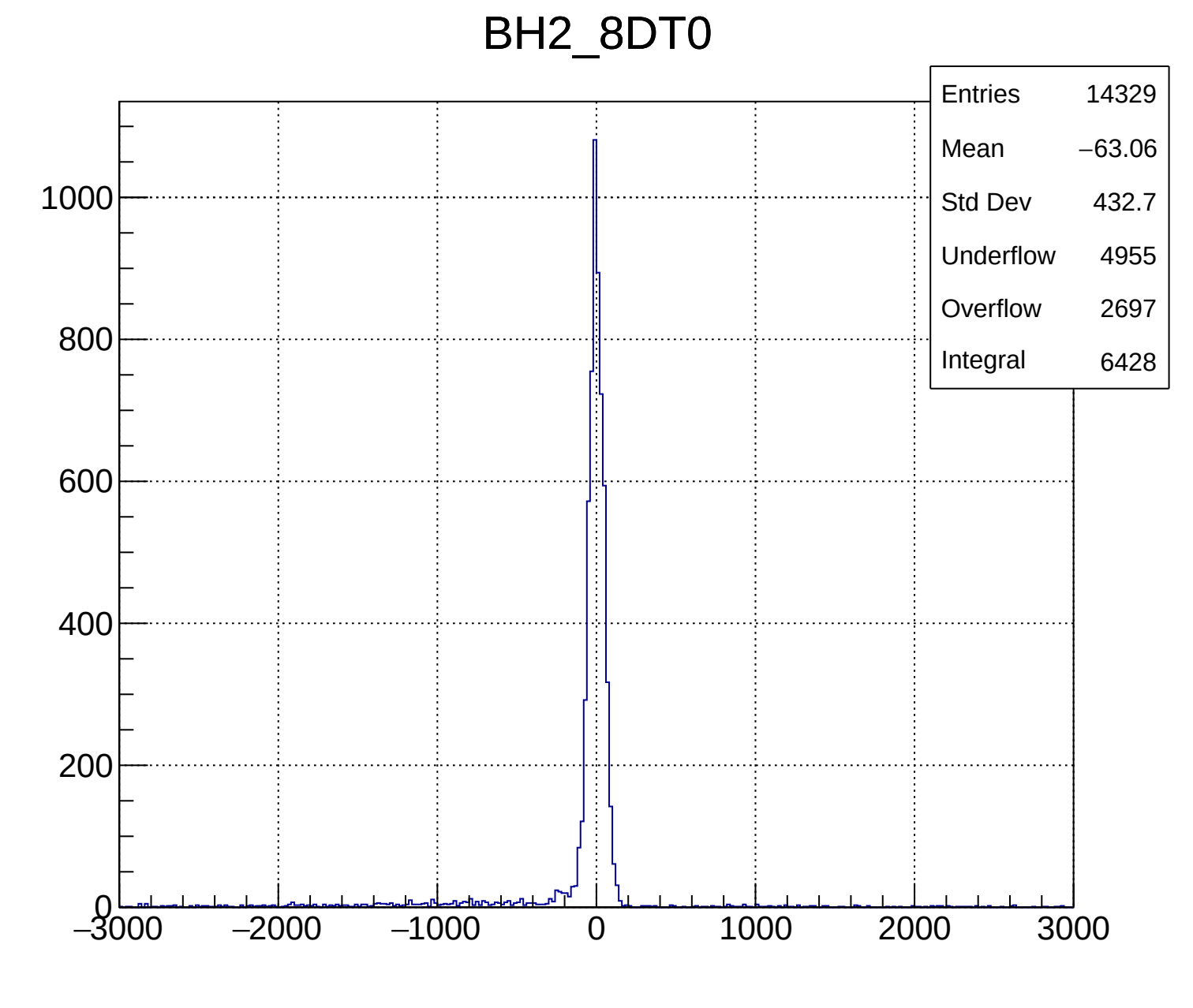
BH2_8DT0
Entries 14329
Mean −63.06
Std Dev 432.7
Underflow 4955
Overflow 2697
Integral 6428
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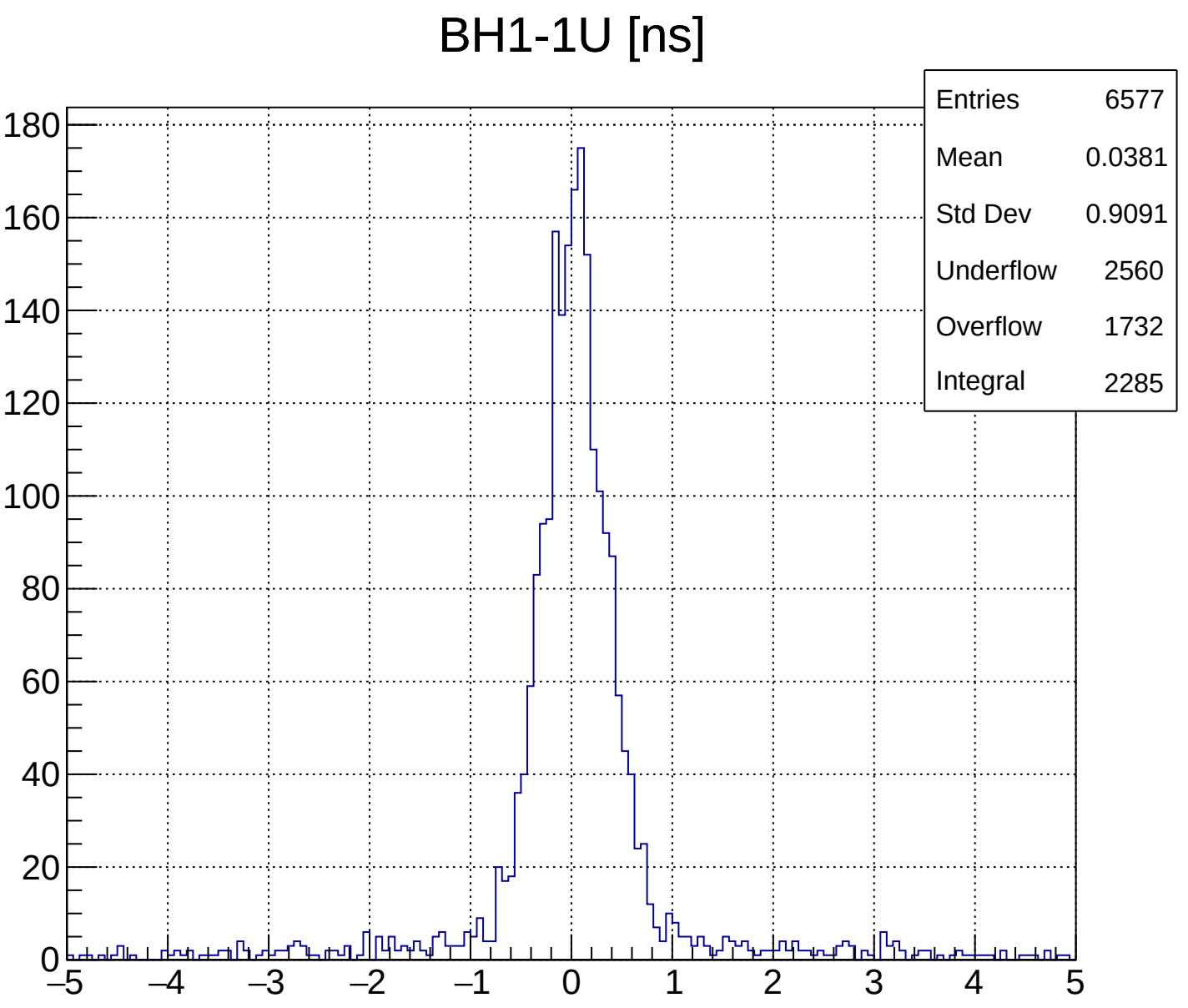
800
600
400
200
0
−3000
−2000
−1000
0
1000
2000
3000


BH1-1U [ns]
Entries 6577
Mean 0.0381
Std Dev 0.9091
Underflow 2560
Overflow 1732
Integral 2285
180
160
140
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60
40
20
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–2
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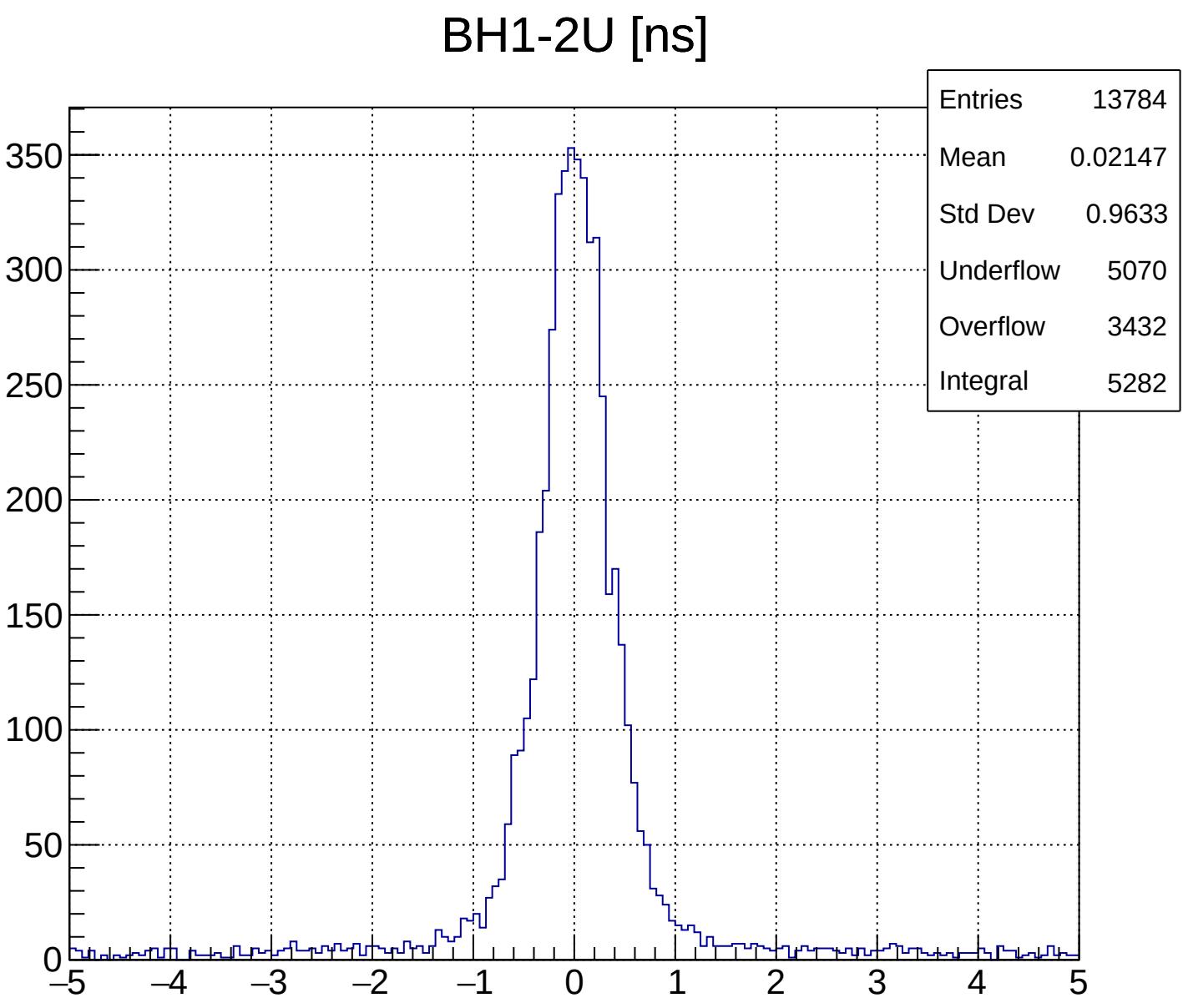
1
2
3
4
5


BH1-2U [ns]
Entries 13784
Mean 0.02147
Std Dev 0.9633
Underflow 5070
Overflow 3432
Integral 5282
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250
200
150
100
50
0
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1
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4
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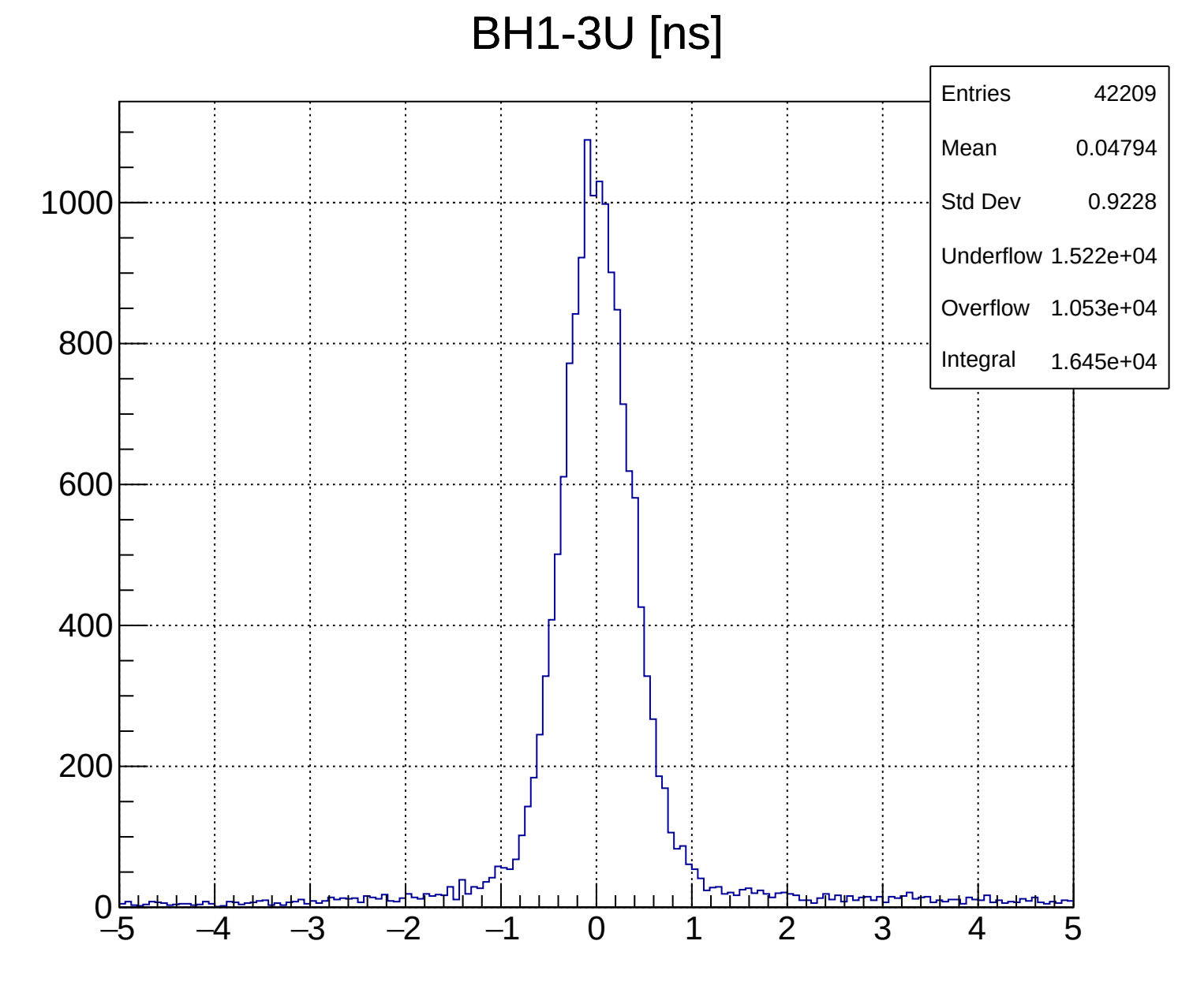
BH1-3U [ns]
Entries 42209
Mean 0.04794
Std Dev 0.9228
Underflow 1.522e+04
Overflow 1.053e+04
Integral 1.645e+04
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400
200
0
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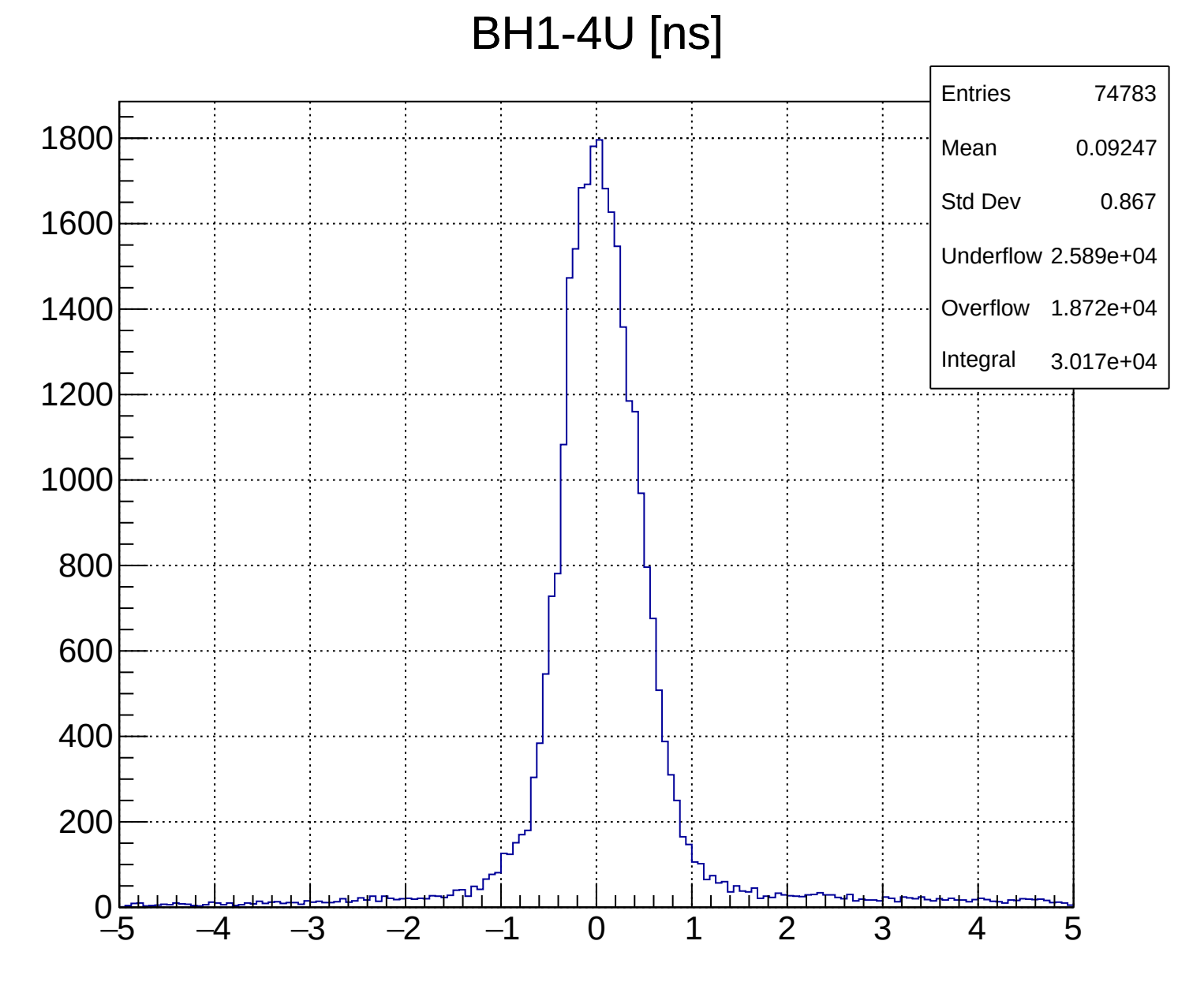
0
1
2
3
4
5


BH1-4U [ns]
Entries 74783
Mean 0.09247
Std Dev 0.867
Underflow 2.589e+04
Overflow 1.872e+04
Integral 3.017e+04
1800
1600
1400
1200
1000
800
600
400
200
0
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–3
–2
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0
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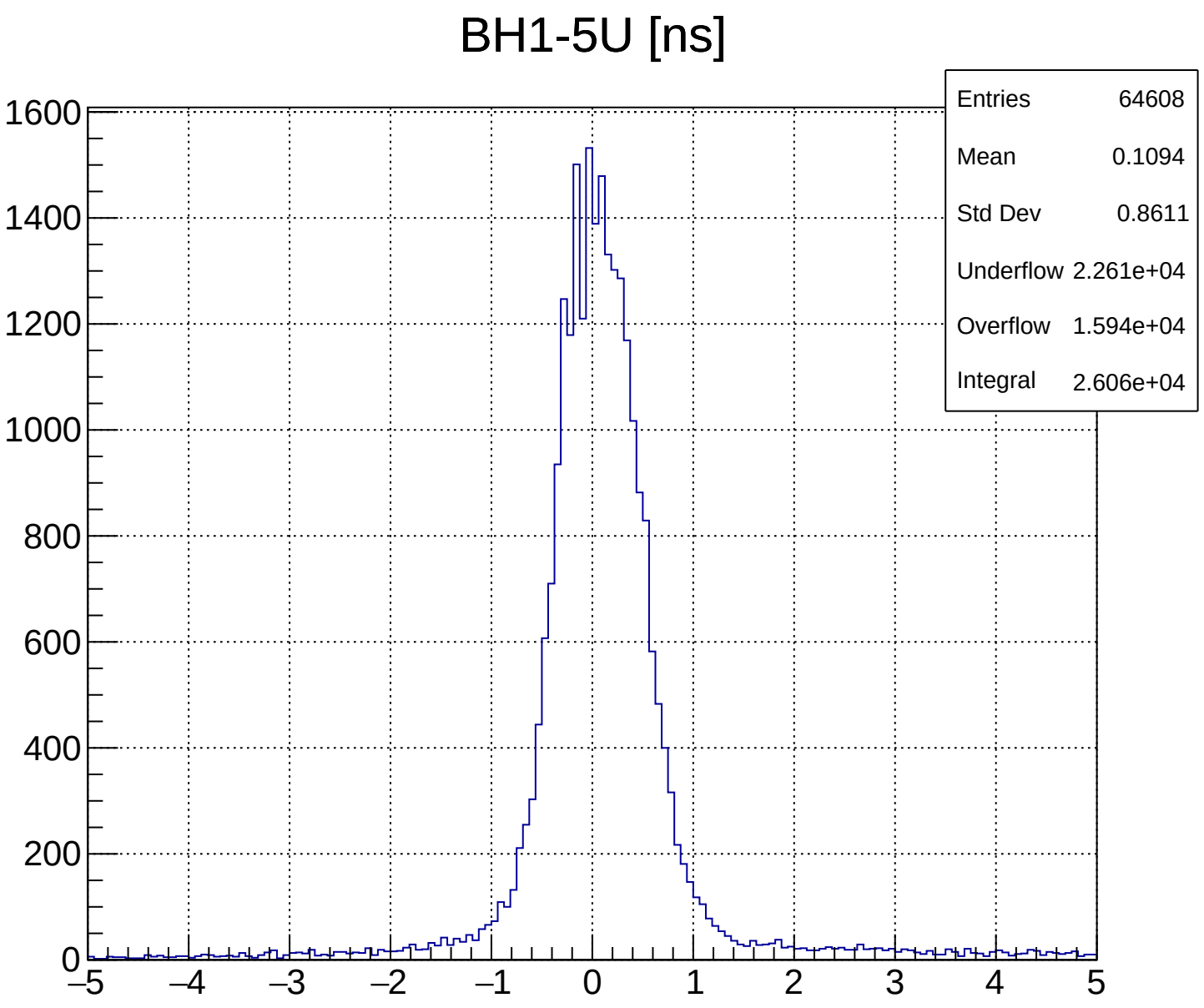
2
3
4
5


BH1-5U [ns]
Entries 64608
Mean 0.1094
Std Dev 0.8611
Underflow 2.261e+04
Overflow 1.594e+04
Integral 2.606e+04
1600
1400
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600
400
200
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4
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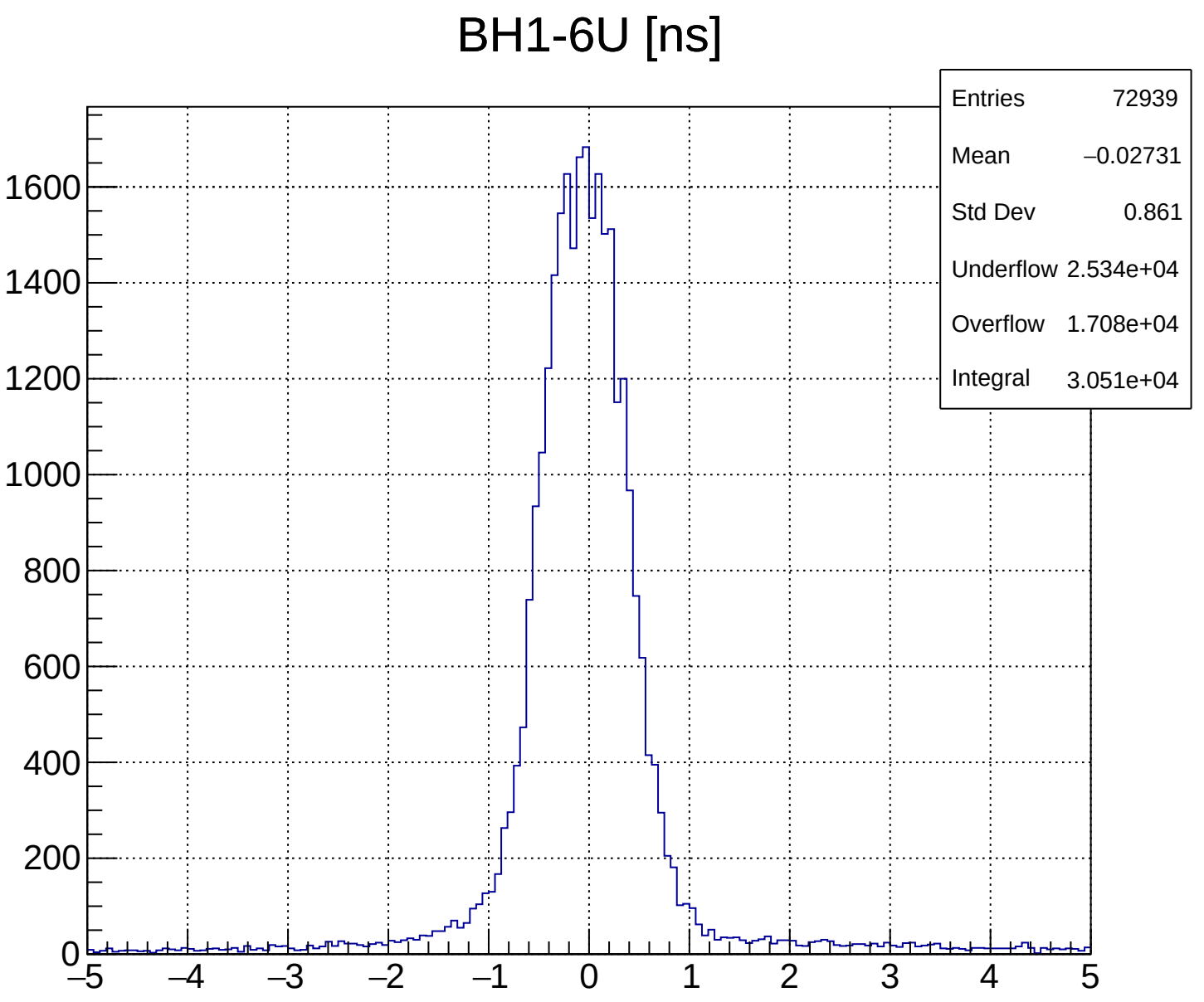
BH1-6U [ns]
Entries 72939
Mean −0.02731
Std Dev 0.861
Underflow 2.534e+04
Overflow 1.708e+04
Integral 3.051e+04
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1400
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600
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200
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4
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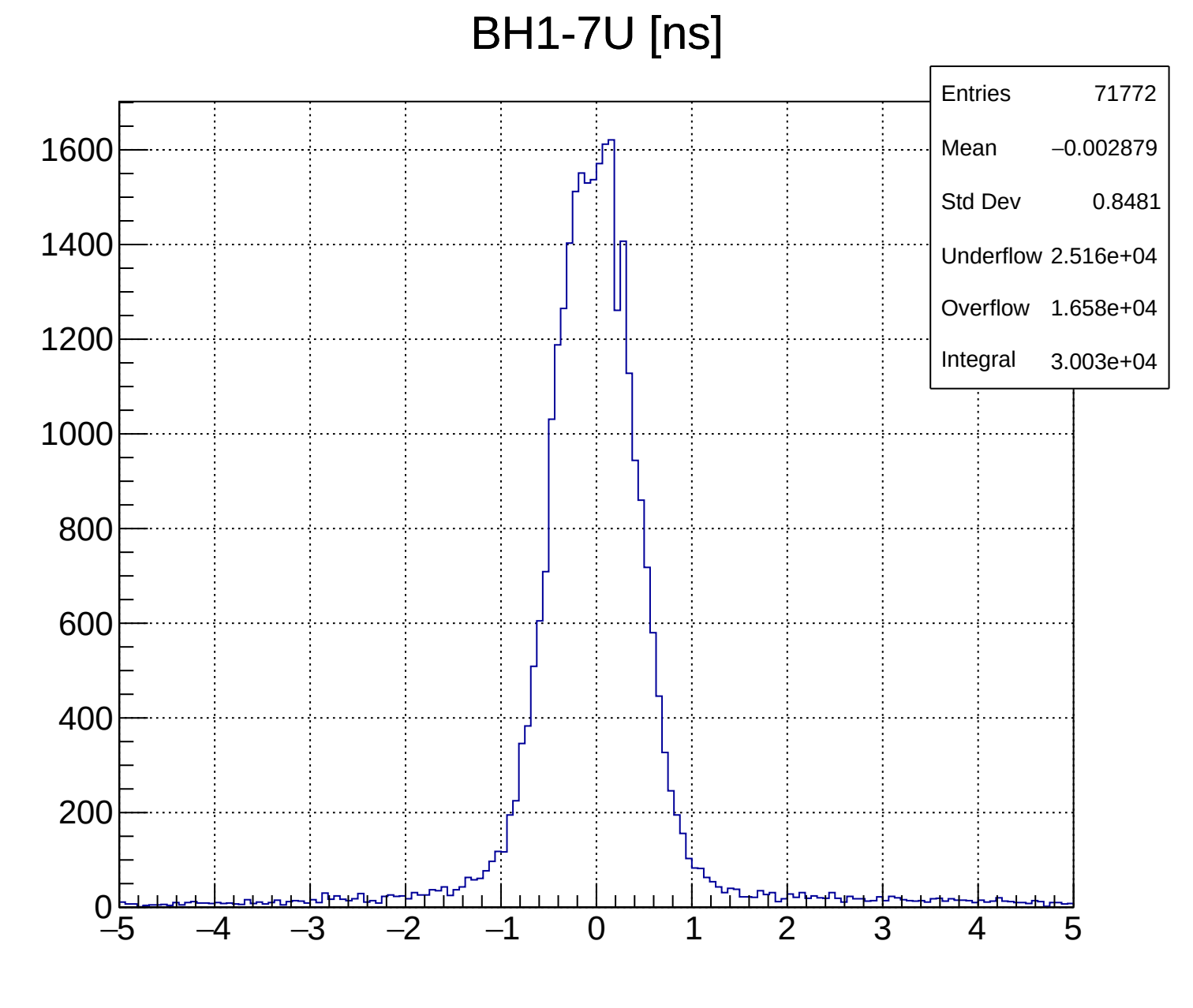
BH1-7U [ns]
Entries 71772
Mean –0.002879
Std Dev 0.8481
Underflow 2.516e+04
Overflow 1.658e+04
Integral 3.003e+04
1600
1400
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400
200
0
–5
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–2
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4
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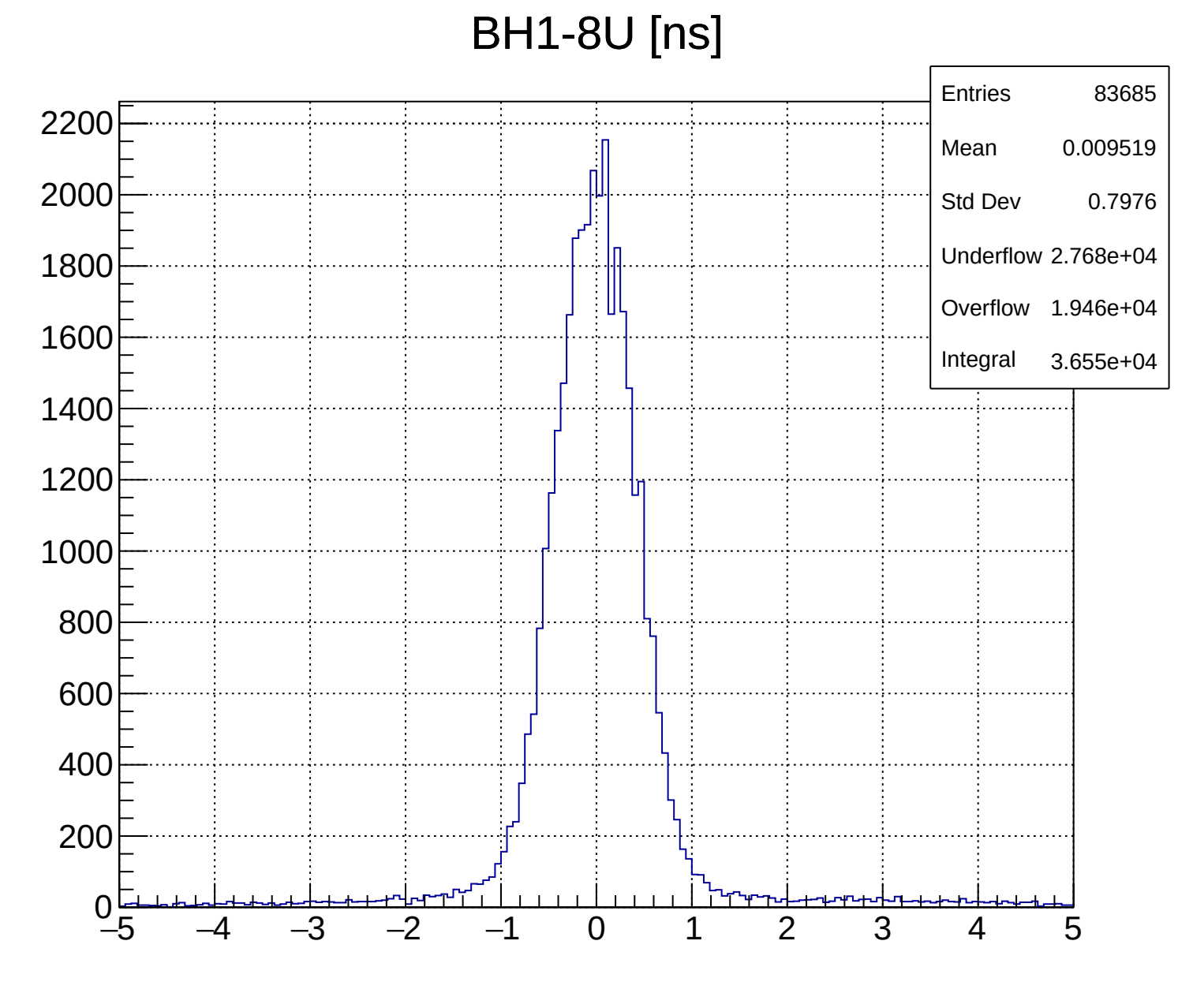
BH1-8U [ns]
Entries 83685
Mean 0.009519
Std Dev 0.7976
Underflow 2.768e+04
Overflow 1.946e+04
Integral 3.655e+04
2200
2000
1800
1600
1400
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200
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4
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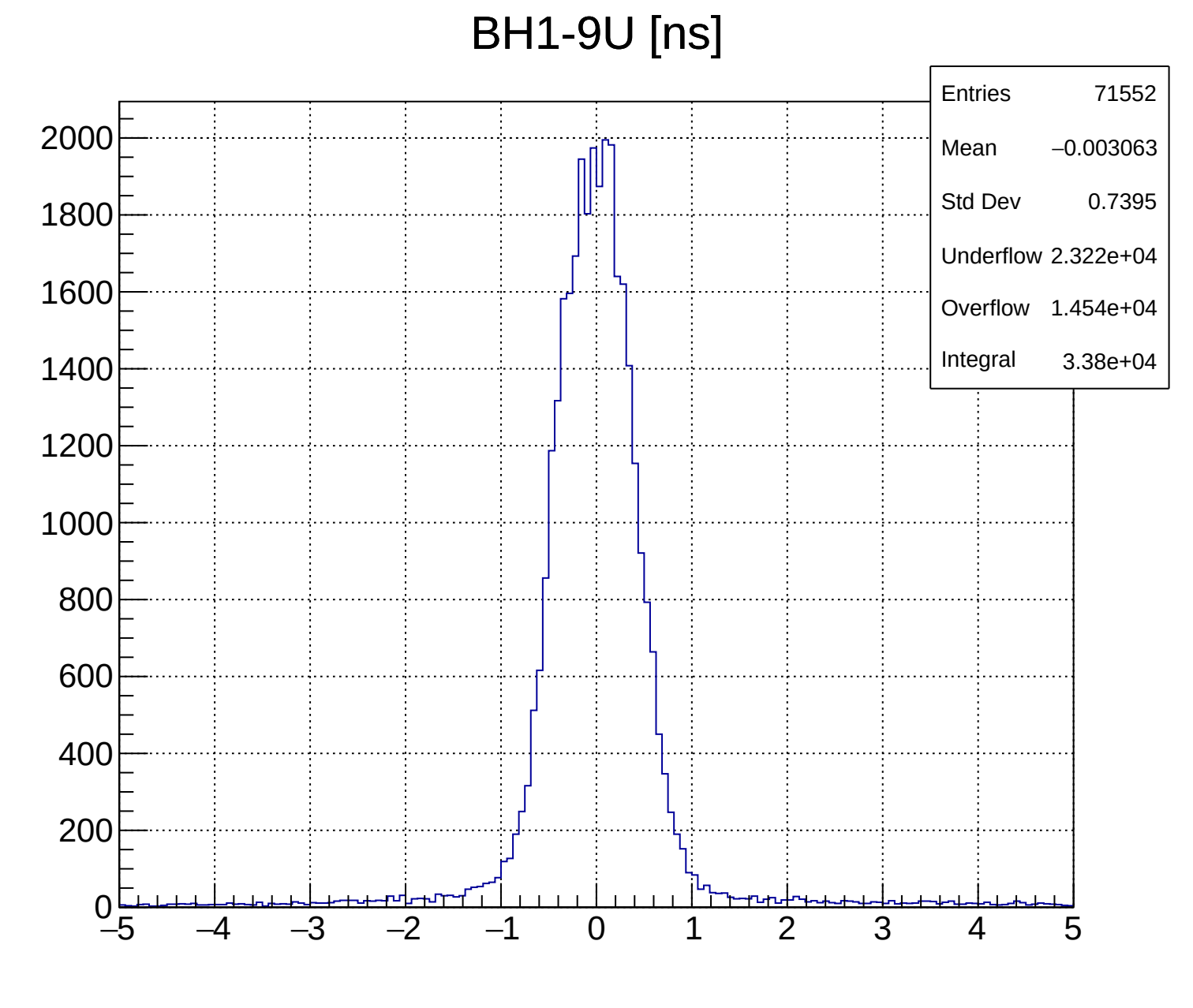
BH1-9U [ns]
Entries 71552
Mean –0.003063
Std Dev 0.7395
Underflow 2.322e+04
Overflow 1.454e+04
Integral 3.38e+04
2000
1800
1600
1400
1200
1000
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600
400
200
0
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–2
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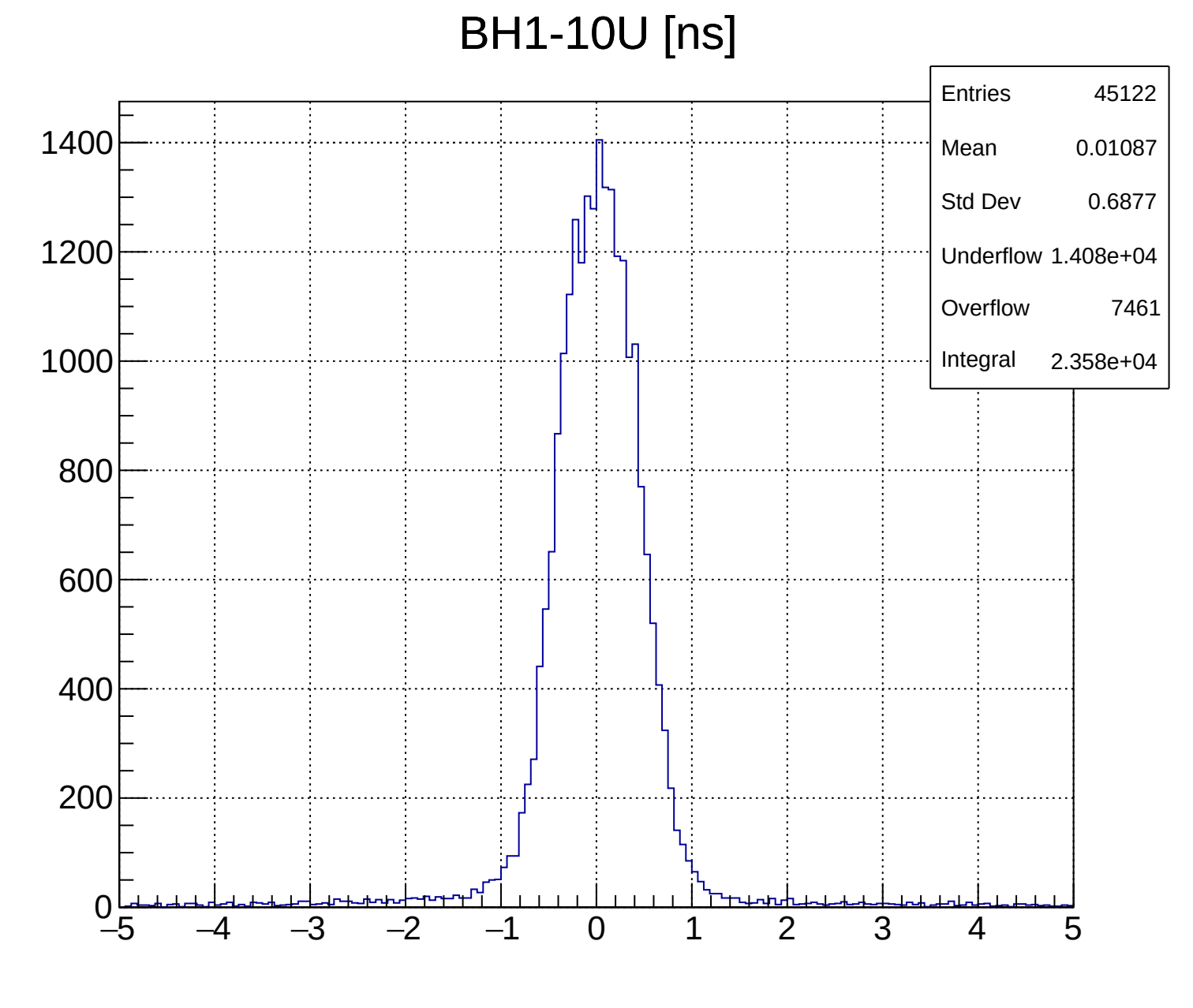
2
3
4
5


BH1-10U [ns]
Entries 45122
Mean 0.01087
Std Dev 0.6877
Underflow 1.408e+04
Overflow 7461
Integral 2.358e+04
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200
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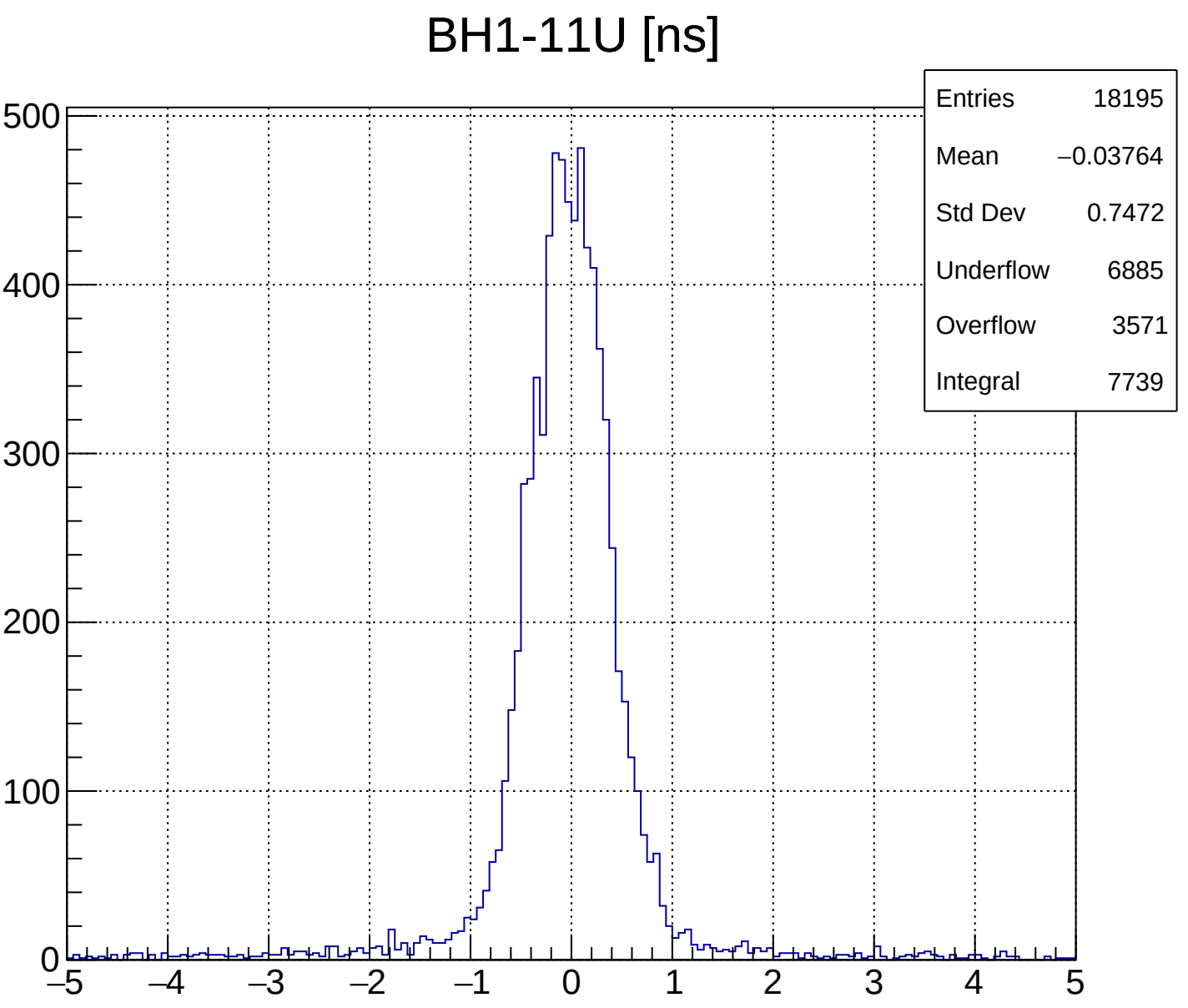
BH1-11U [ns]
Entries 18195
Mean −0.03764
Std Dev 0.7472
Underflow 6885
Overflow 3571
Integral 7739
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200
100
0
−5
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−3
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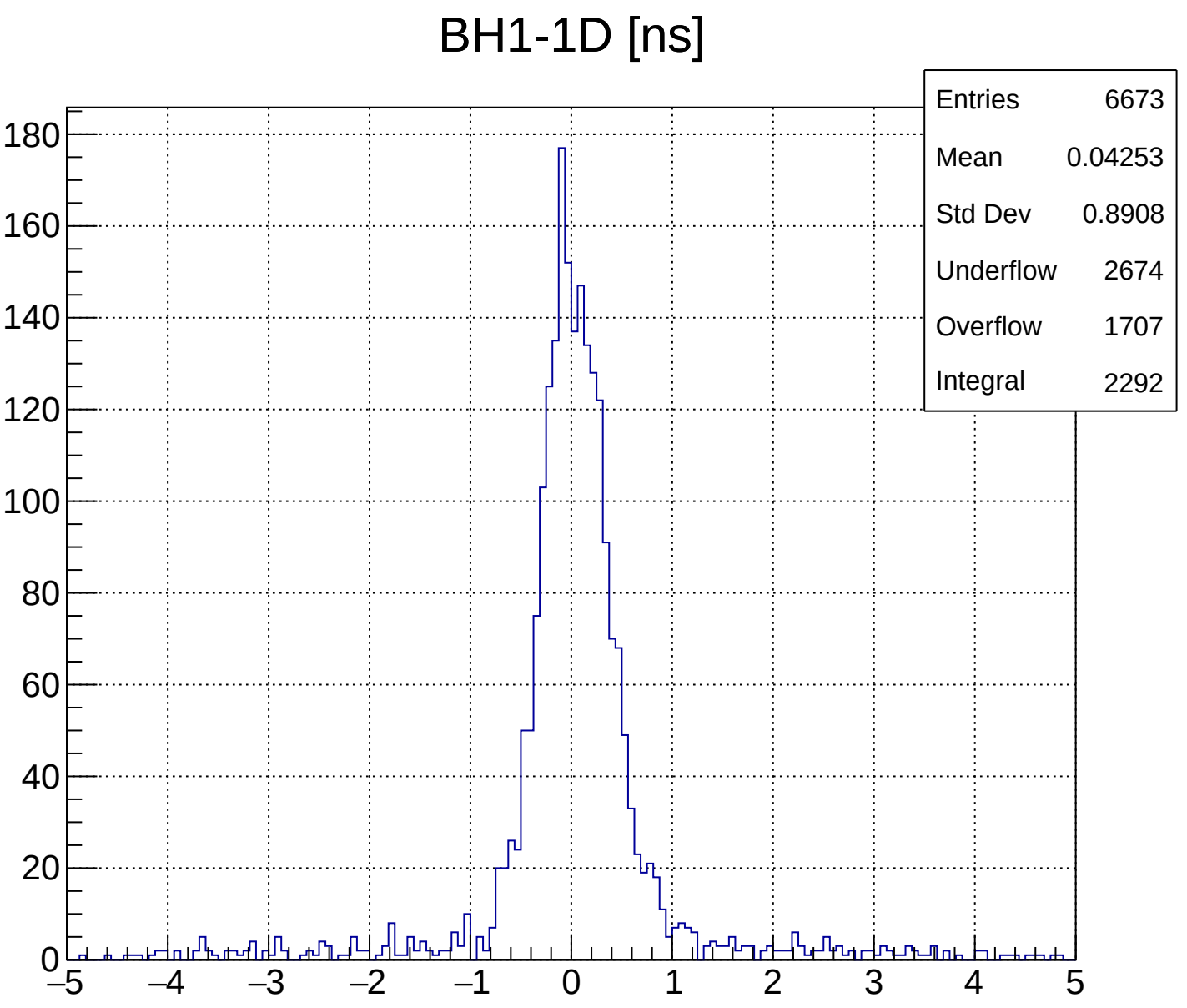
4
5


BH1-1D [ns]
Entries 6673
Mean 0.04253
Std Dev 0.8908
Underflow 2674
Overflow 1707
Integral 2292
180
160
140
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100
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60
40
20
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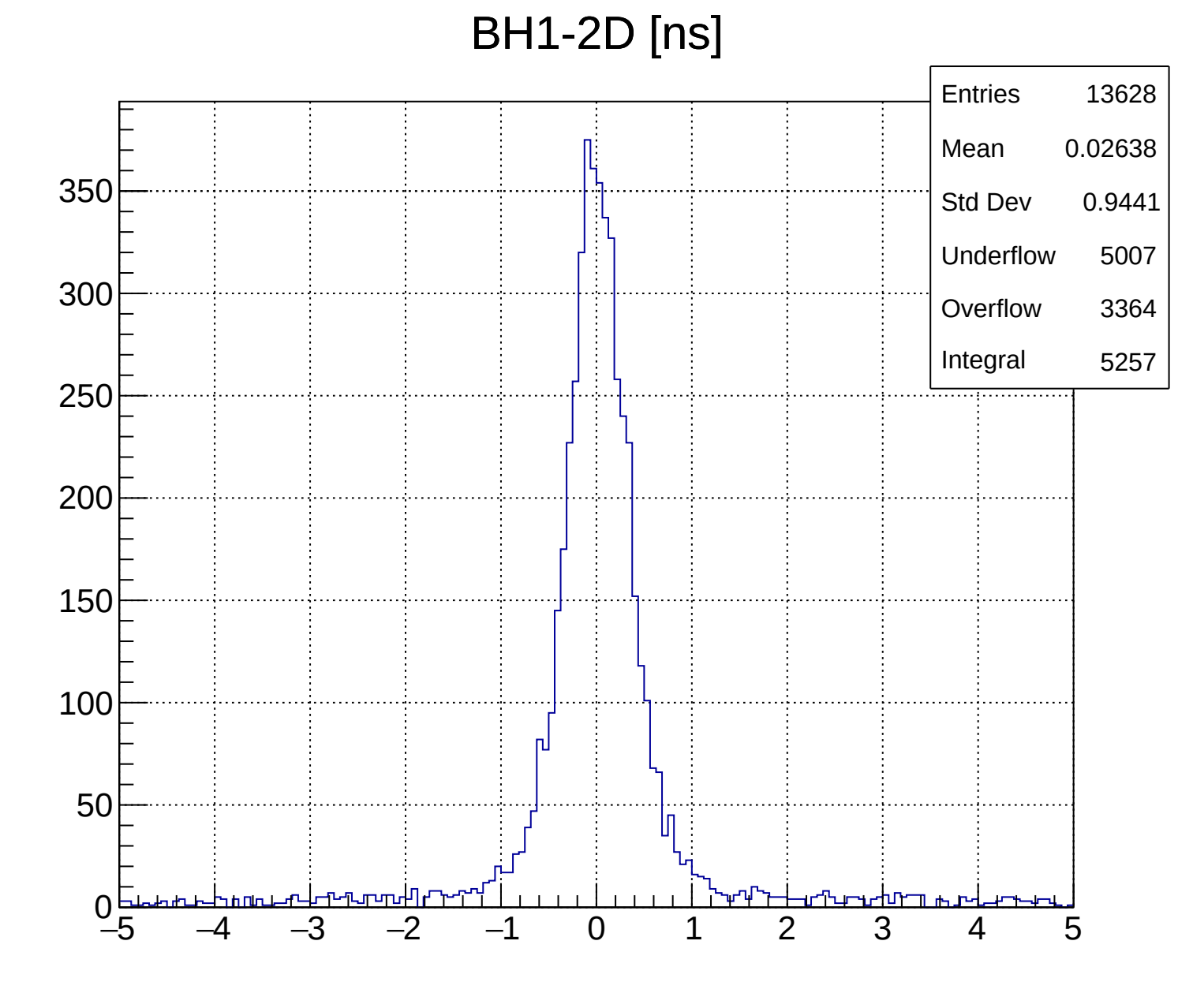
BH1-2D [ns]
Entries 13628
Mean 0.02638
Std Dev 0.9441
Underflow 5007
Overflow 3364
Integral 5257
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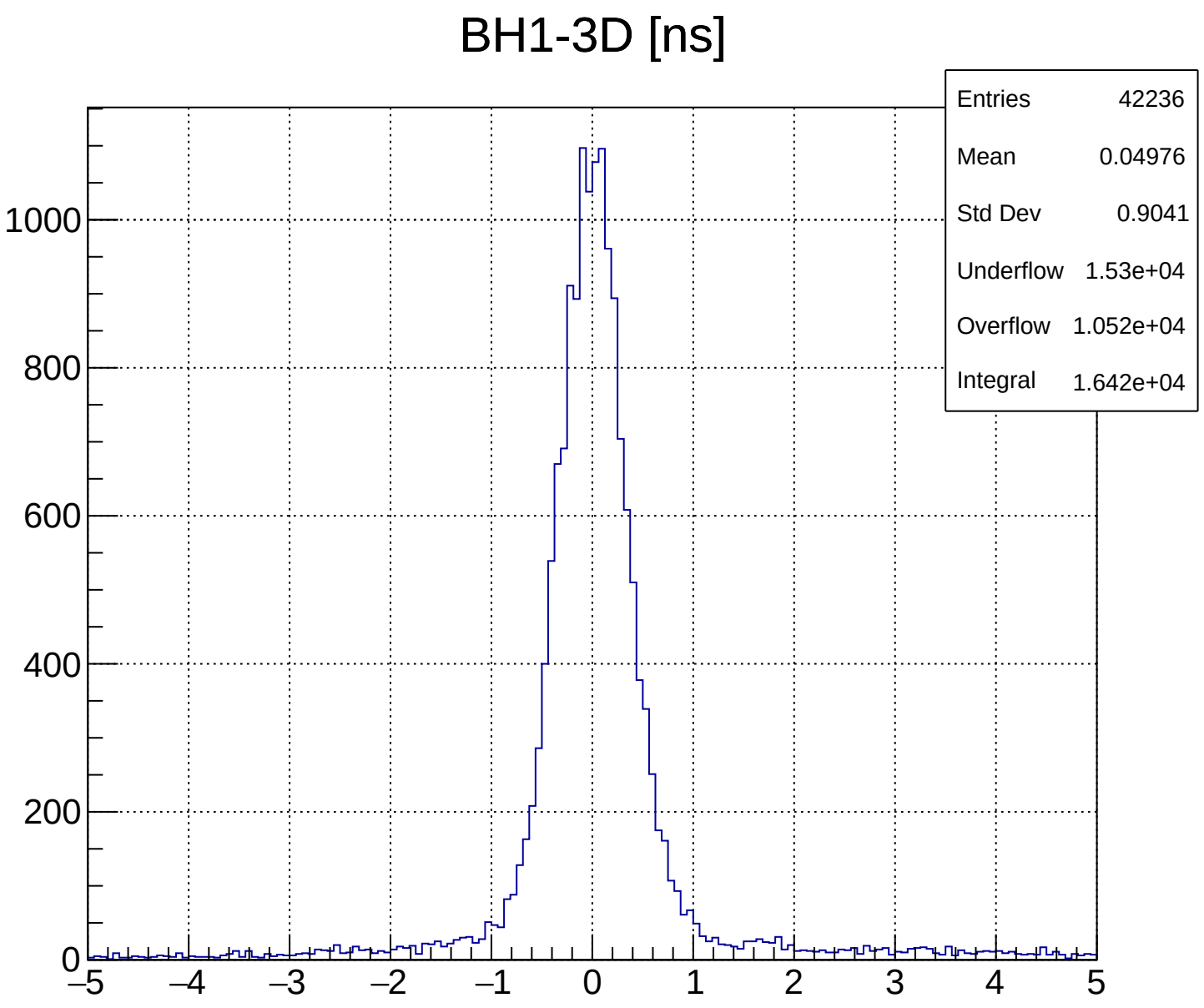
BH1-3D [ns]
Entries 42236
Mean 0.04976
Std Dev 0.9041
Underflow 1.53e+04
Overflow 1.052e+04
Integral 1.642e+04
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200
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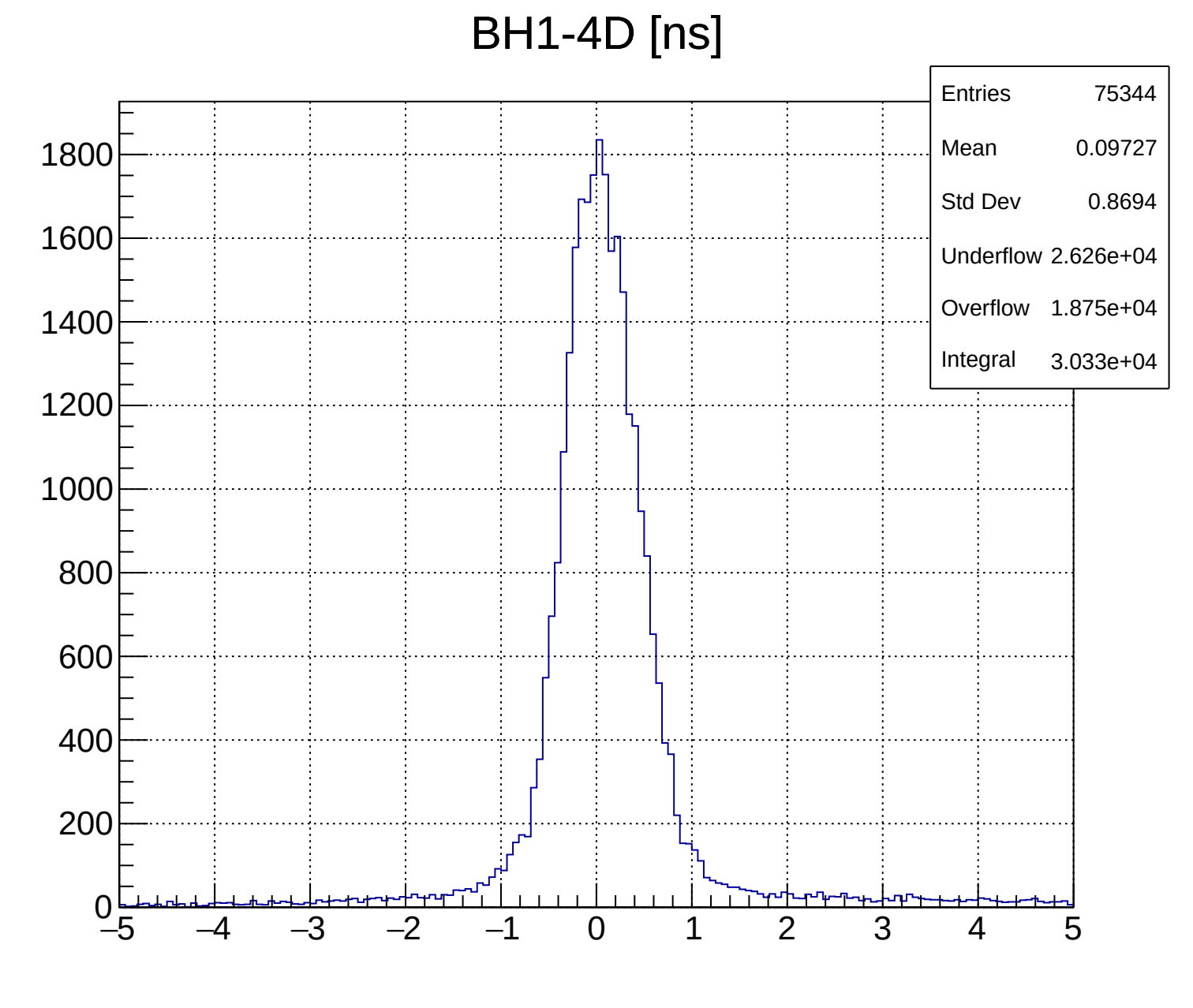
4
5


BH1-4D [ns]
Entries 75344
Mean 0.09727
Std Dev 0.8694
Underflow 2.626e+04
Overflow 1.875e+04
Integral 3.033e+04
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1600
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200
0
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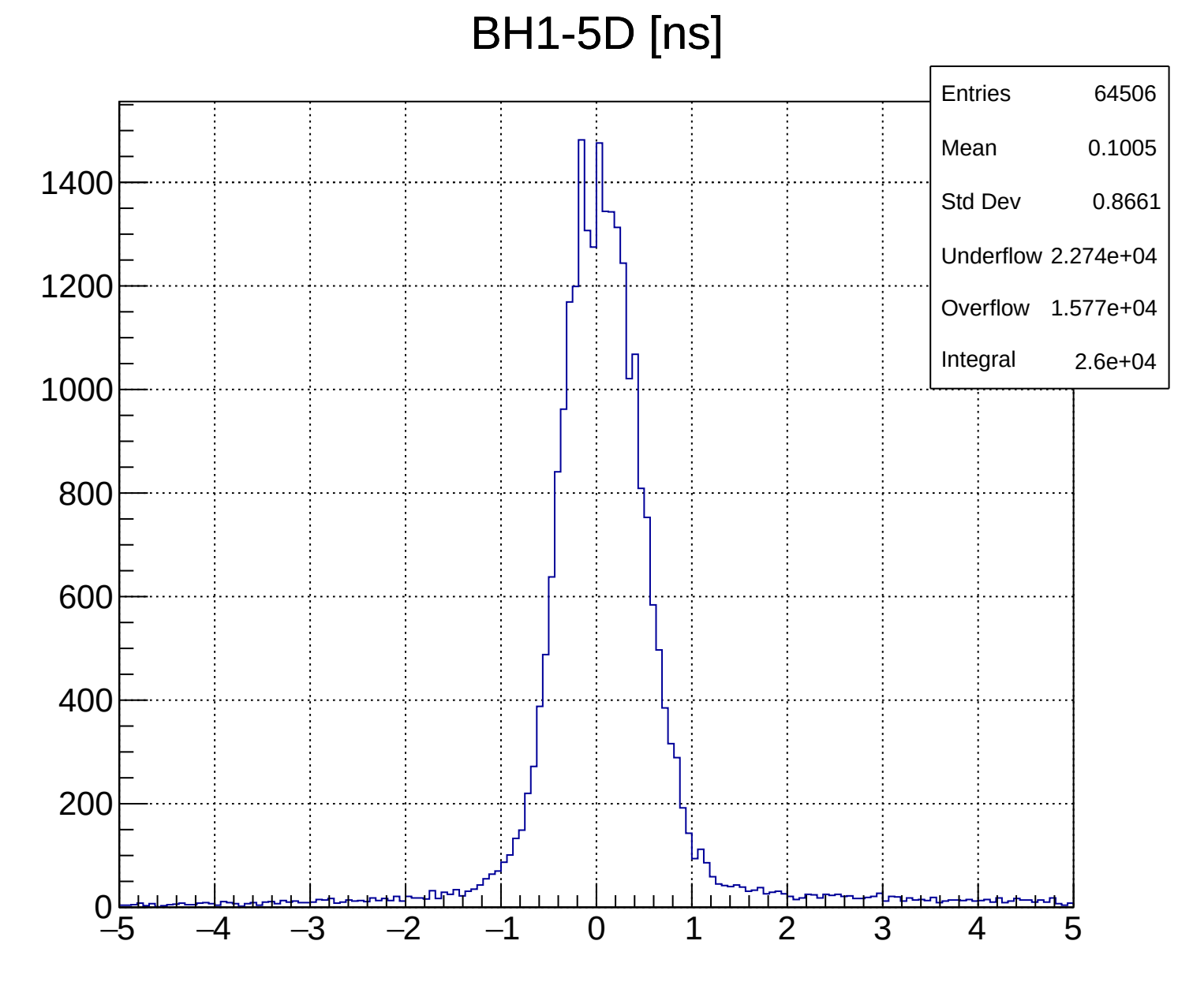
BH1-5D [ns]
Entries 64506
Mean 0.1005
Std Dev 0.8661
Underflow 2.274e+04
Overflow 1.577e+04
Integral 2.6e+04
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200
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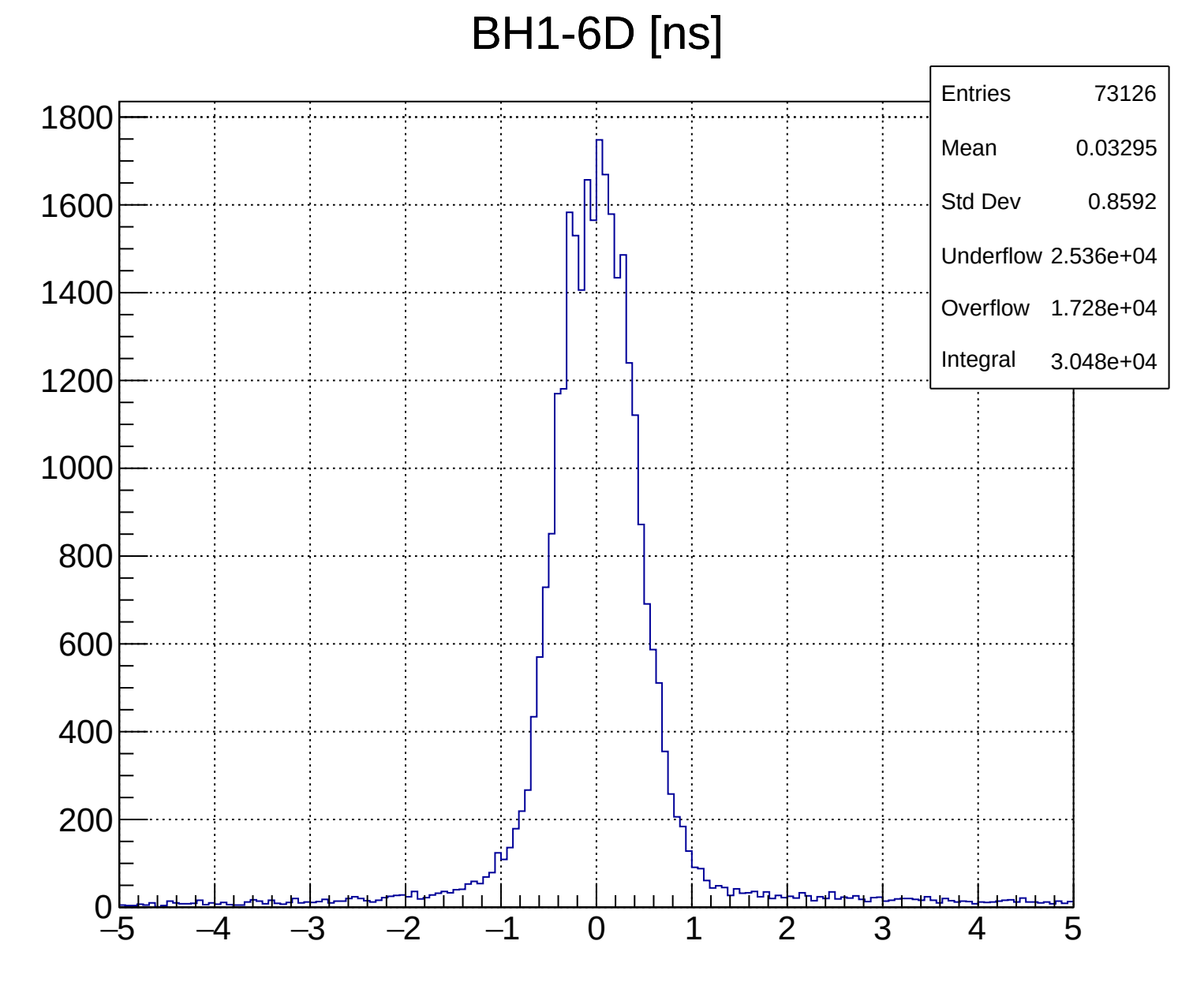
4
5


BH1-6D [ns]
Entries 73126
Mean 0.03295
Std Dev 0.8592
Underflow 2.536e+04
Overflow 1.728e+04
Integral 3.048e+04
1800
1600
1400
1200
1000
800
600
400
200
0
–5
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–3
–2
–1
0
1
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4
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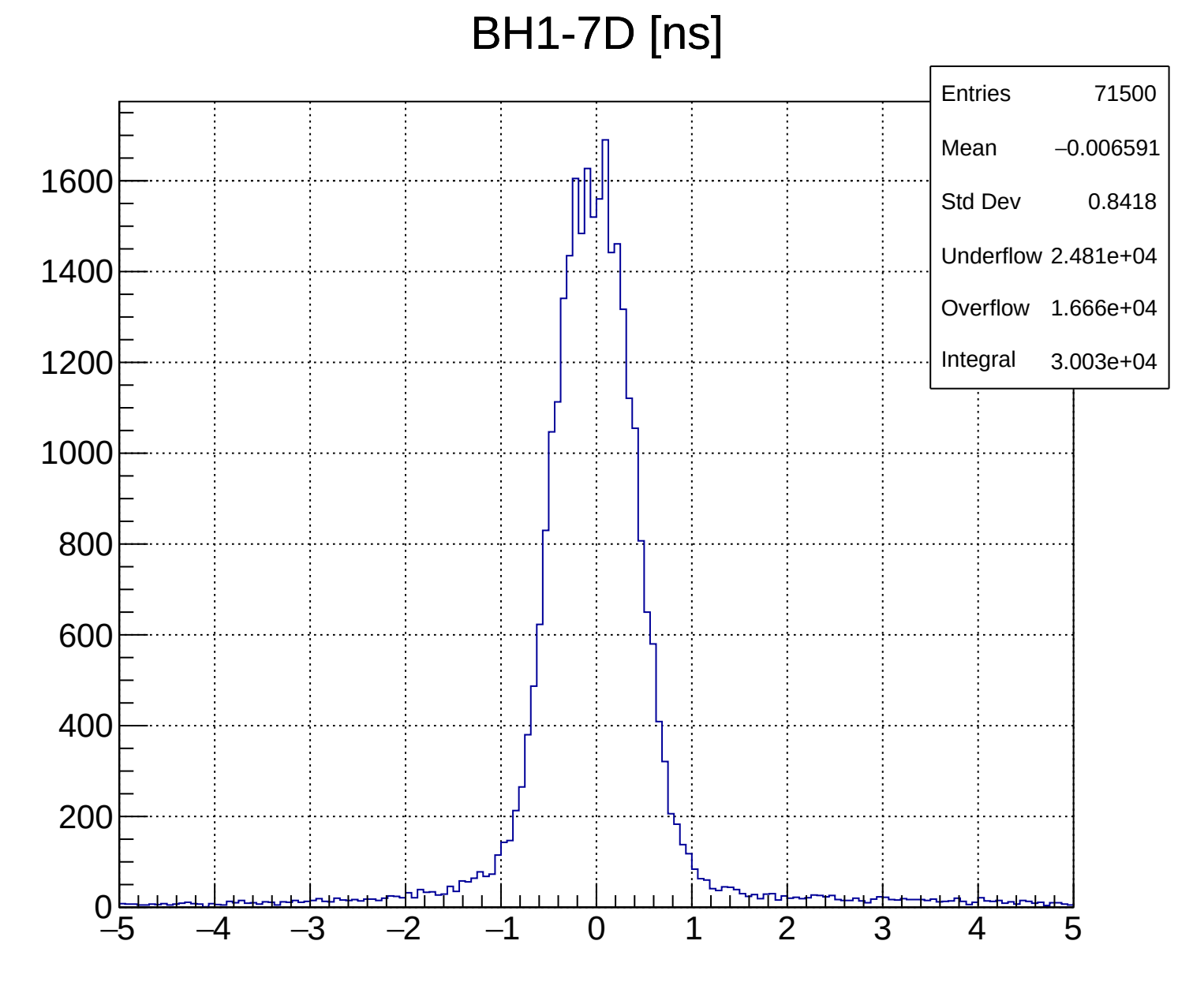
BH1-7D [ns]
Entries 71500
Mean –0.006591
Std Dev 0.8418
Underflow 2.481e+04
Overflow 1.666e+04
Integral 3.003e+04
1600
1400
1200
1000
800
600
400
200
0
–5
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–2
–1
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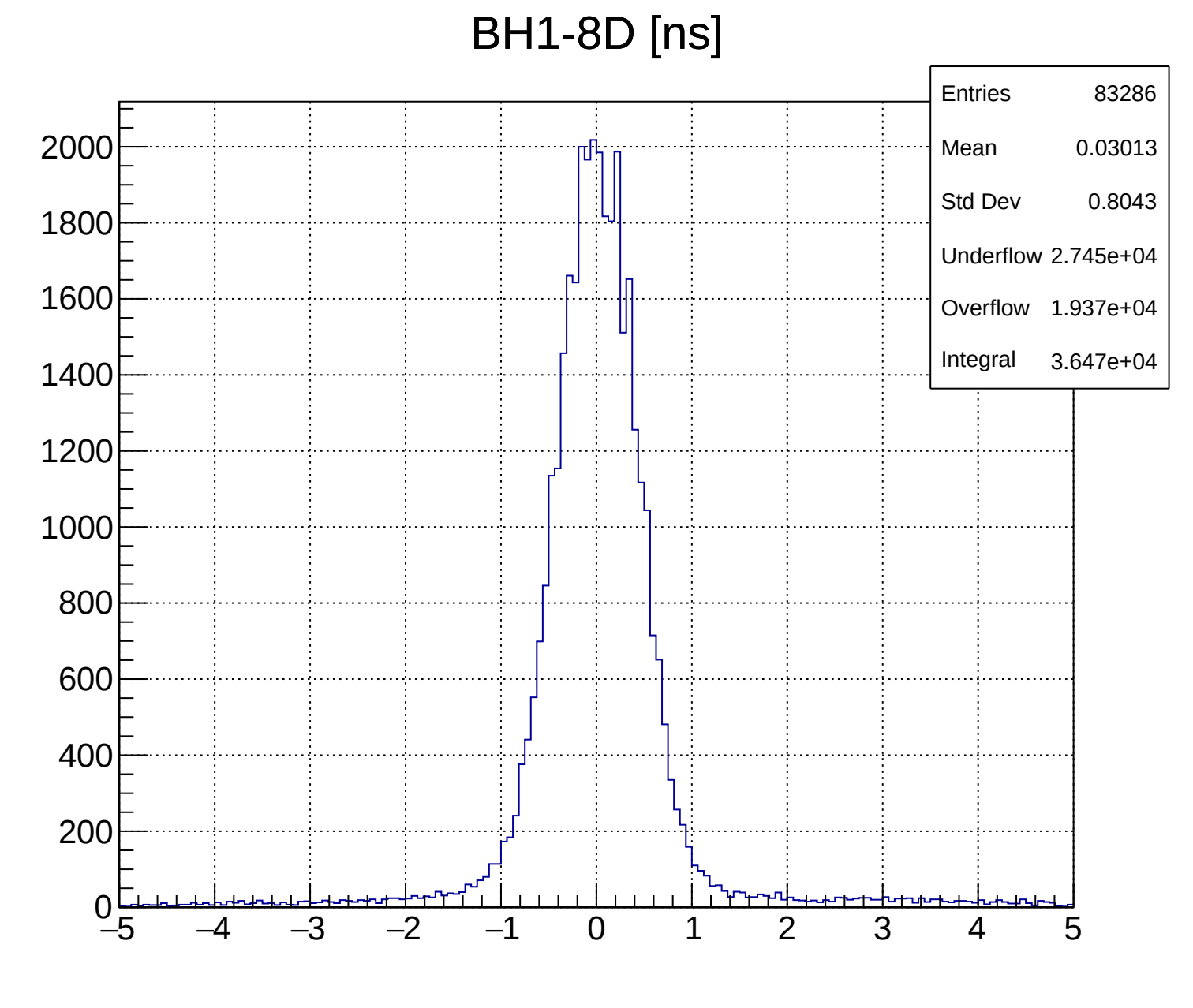
BH1-8D [ns]
Entries 83286
Mean 0.03013
Std Dev 0.8043
Underflow 2.745e+04
Overflow 1.937e+04
Integral 3.647e+04
2000
1800
1600
1400
1200
1000
800
600
400
200
0
–5
–4
–3
–2
–1
0
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4
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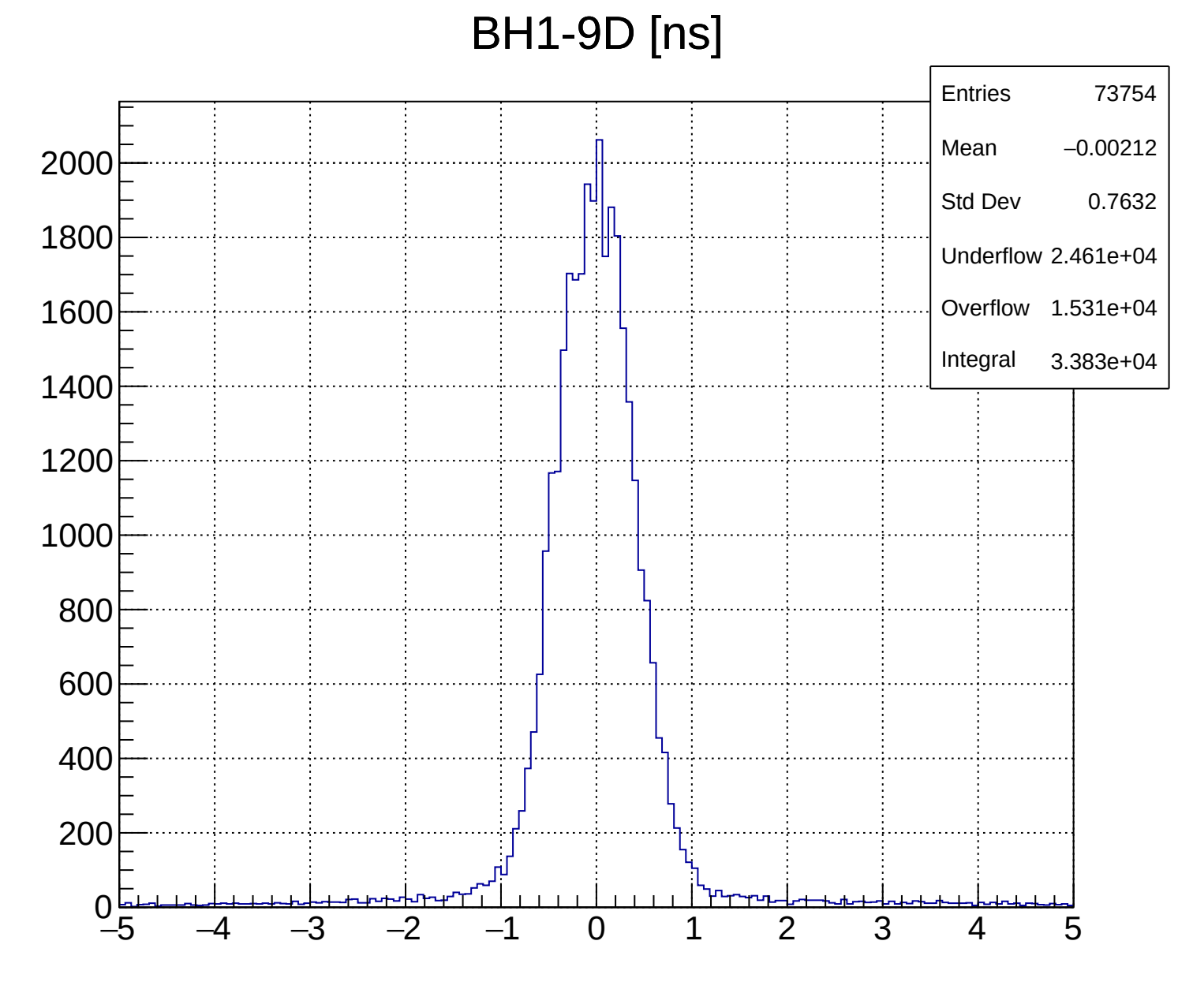
BH1-9D [ns]
Entries 73754
Mean –0.00212
Std Dev 0.7632
Underflow 2.461e+04
Overflow 1.531e+04
Integral 3.383e+04
2000
1800
1600
1400
1200
1000
800
600
400
200
0
–5
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–3
–2
–1
0
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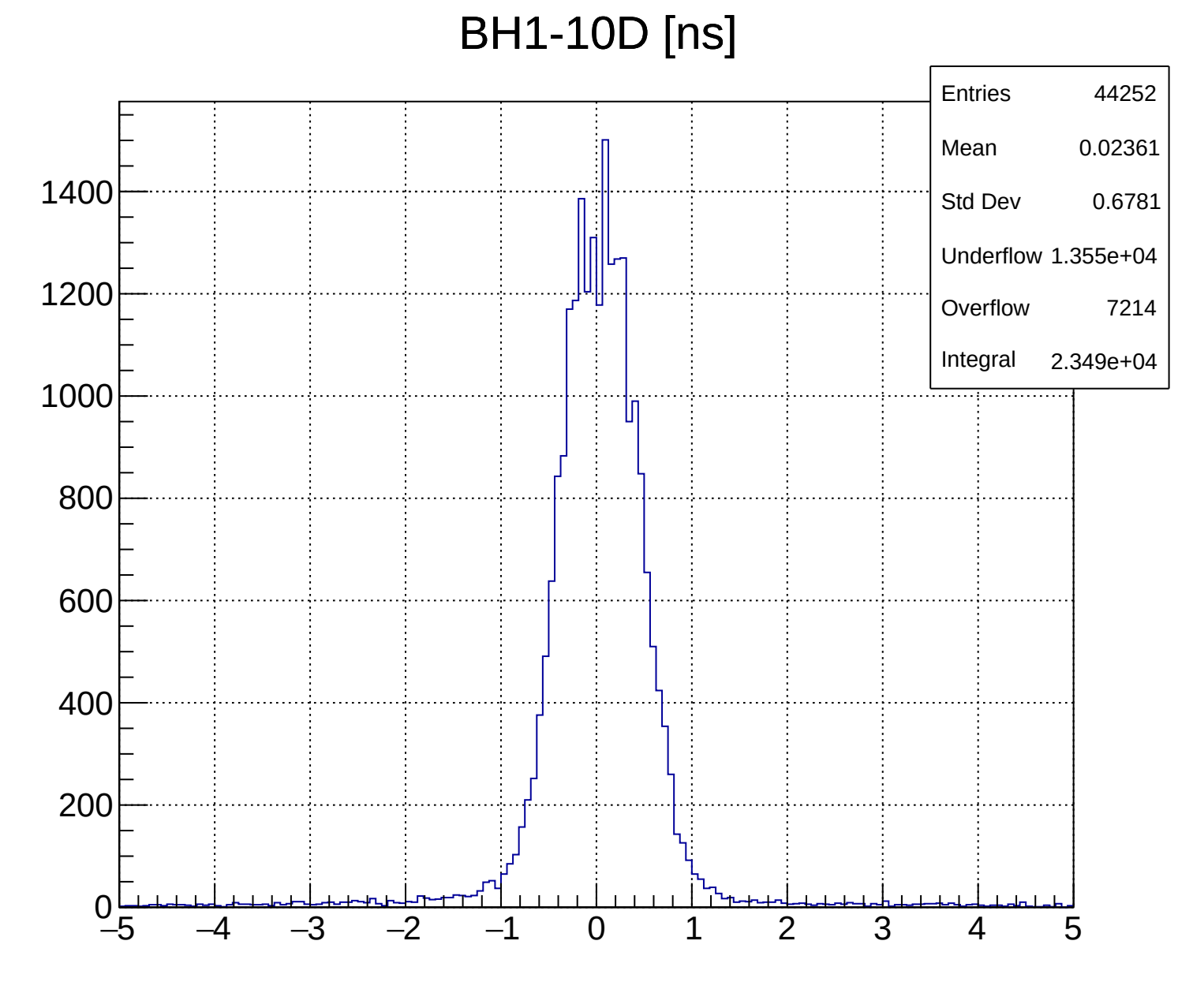
BH1-10D [ns]
Entries 44252
Mean 0.02361
Std Dev 0.6781
Underflow 1.355e+04
Overflow 7214
Integral 2.349e+04
1400
1200
1000
800
600
400
200
0
–5
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–3
–2
–1
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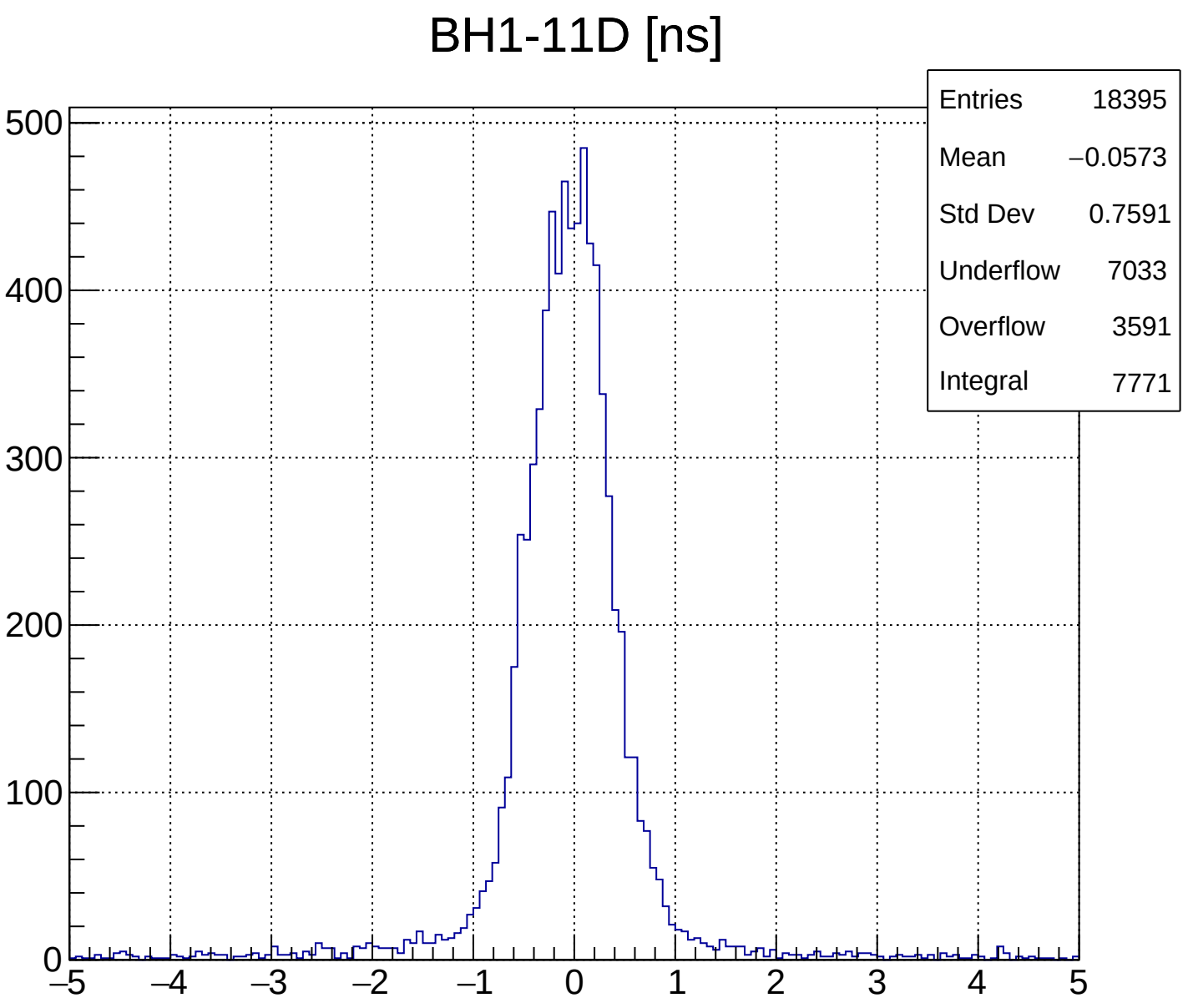
BH1-11D [ns]
Entries 18395
Mean −0.0573
Std Dev 0.7591
Underflow 7033
Overflow 3591
Integral 7771
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300
200
100
0
−5
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−3
−2
−1
0
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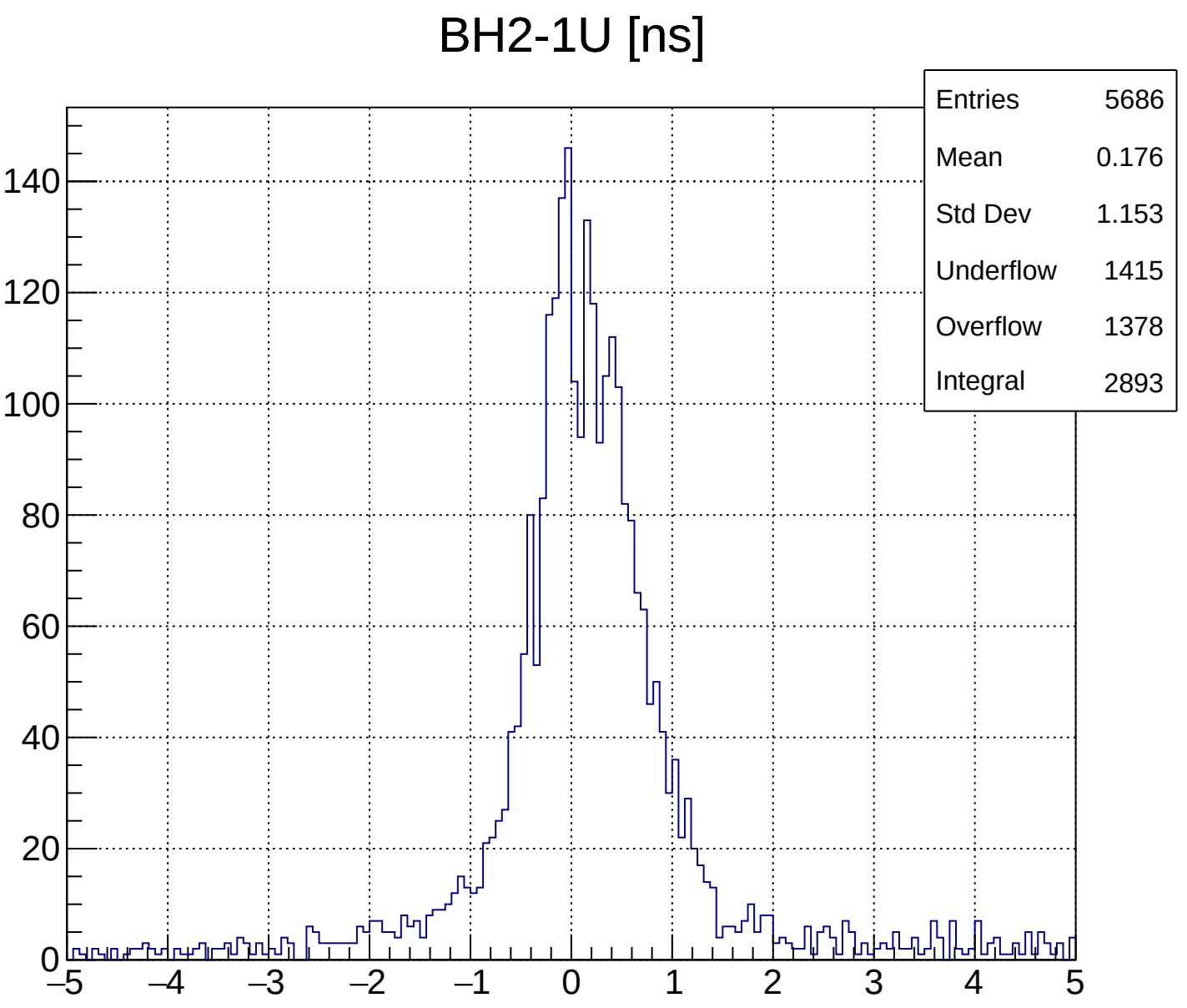
2
3
4
5


BH2-1U [ns]
Entries 5686
Mean 0.176
Std Dev 1.153
Underflow 1415
Overflow 1378
Integral 2893
140
120
100
80
60
40
20
0
–5
–4
–3
–2
–1
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4
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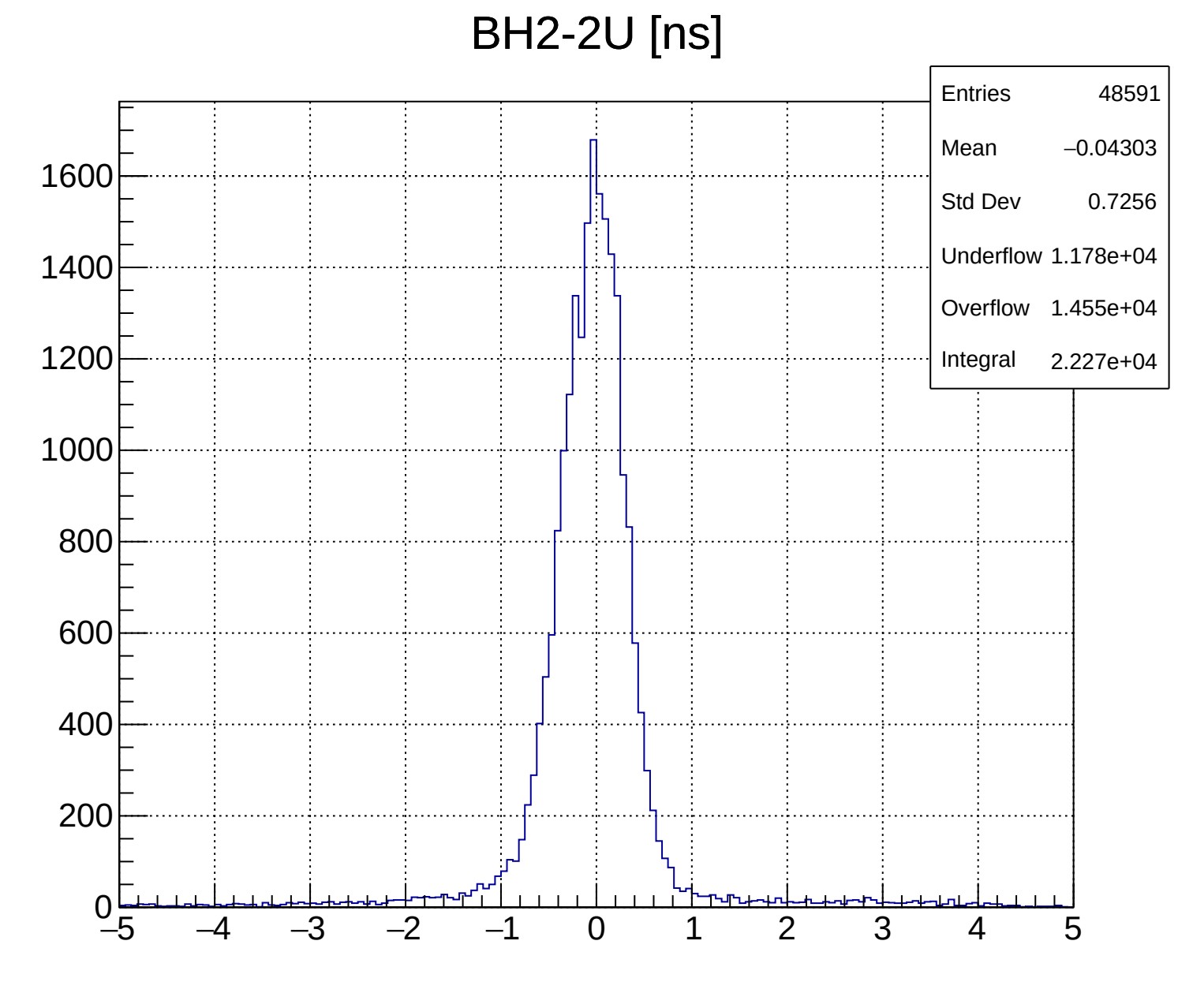
BH2-2U [ns]
Entries 48591
Mean −0.04303
Std Dev 0.7256
Underflow 1.178e+04
Overflow 1.455e+04
Integral 2.227e+04
1600
1400
1200
1000
800
600
400
200
0
−5
−4
−3
−2
−1
0
1
2
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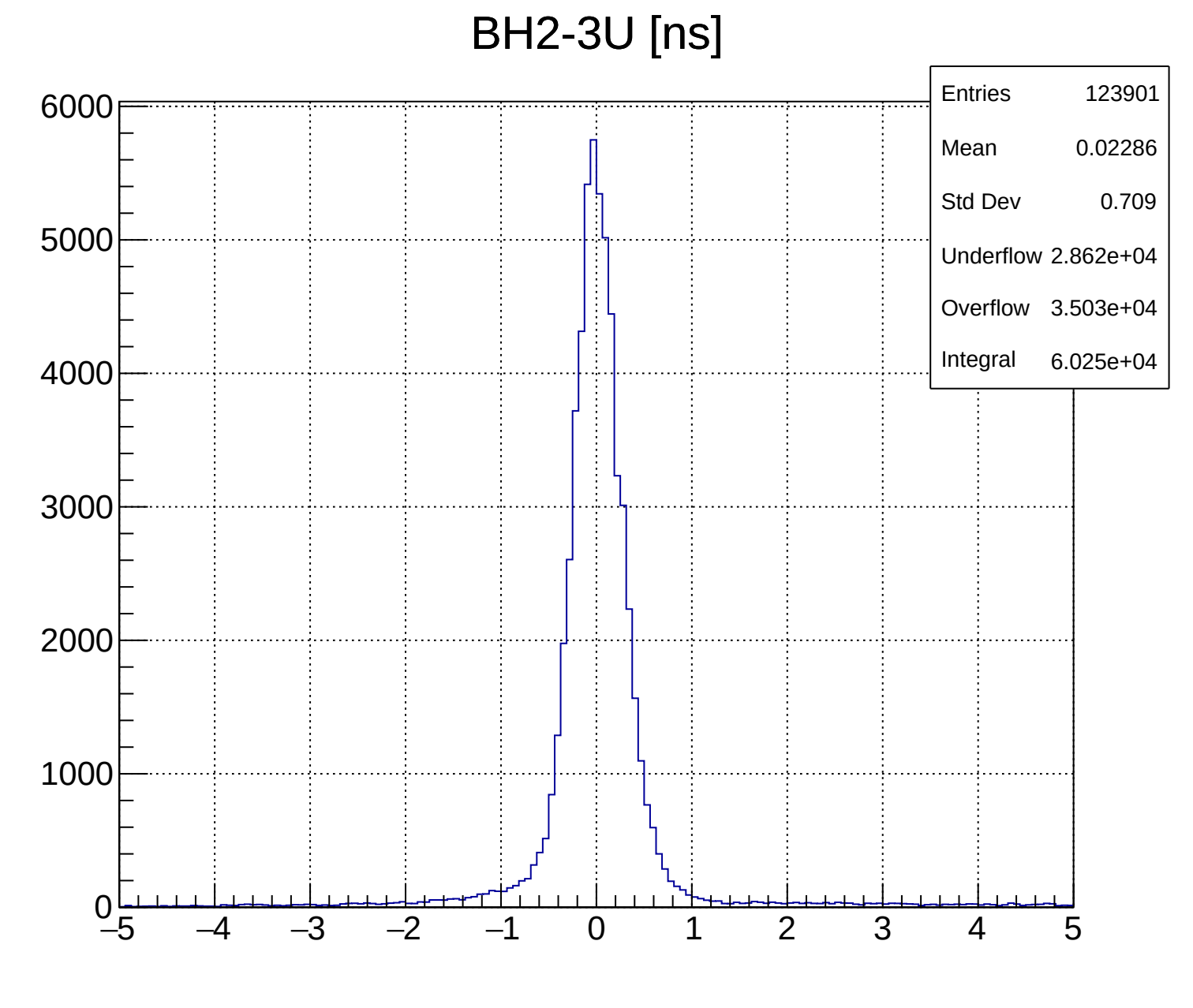
4
5


BH2-3U [ns]
Entries 123901
Mean 0.02286
Std Dev 0.709
Underflow 2.862e+04
Overflow 3.503e+04
Integral 6.025e+04
6000
5000
4000
3000
2000
1000
0
–5
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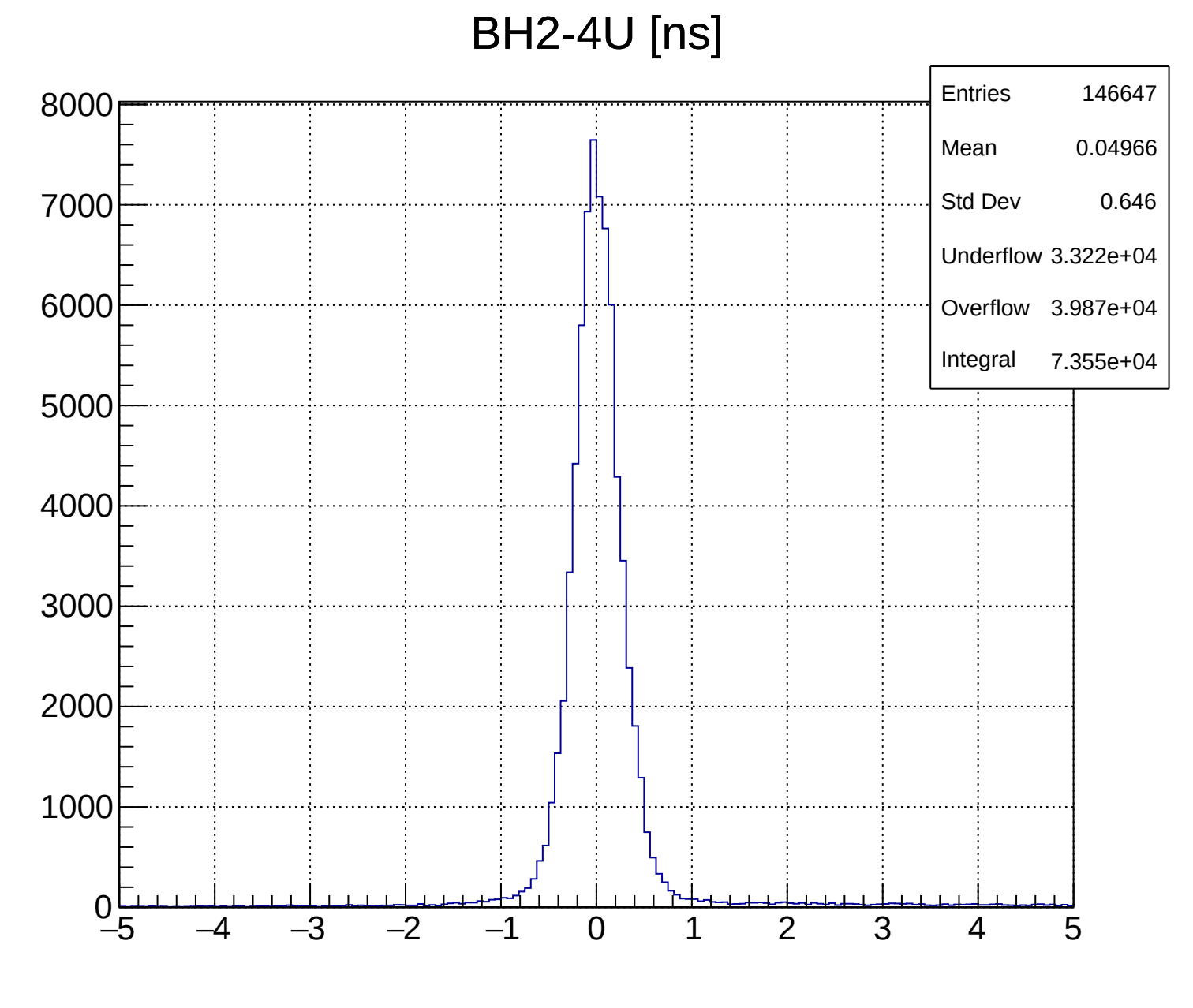
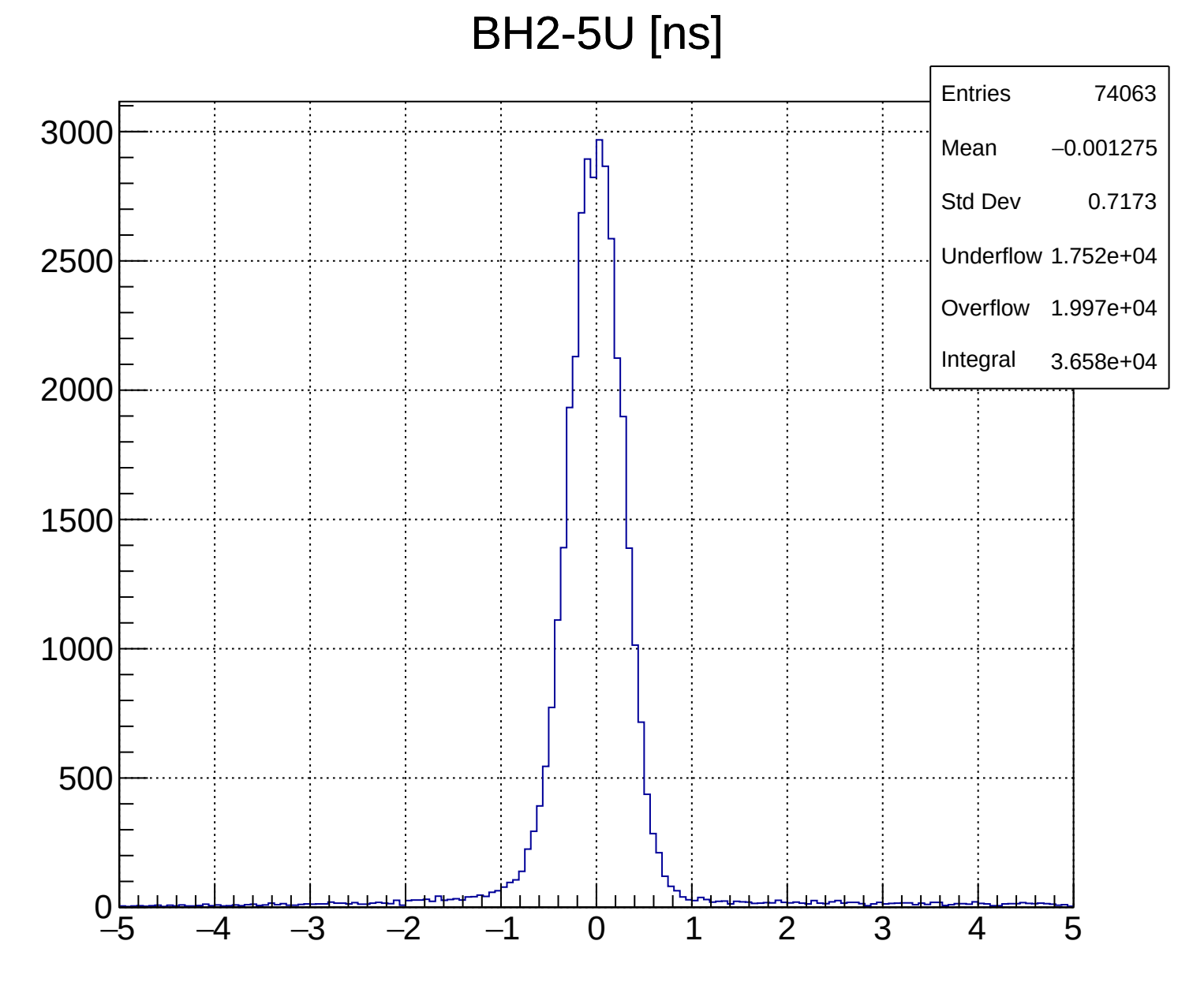
–3
–2
–1
0
1
2
3
4
5


BH2-4U [ns]
Entries 146647
Mean 0.04966
Std Dev 0.646
Underflow 3.322e+04
Overflow 3.987e+04
Integral 7.355e+04
8000
7000
6000
5000
4000
3000
2000
1000
0
–5
–4
–3
–2
–1
0
1
2
3
4
5


BH2-5U [ns]
Entries 74063
Mean –0.001275
Std Dev 0.7173
Underflow 1.752e+04
Overflow 1.997e+04
Integral 3.658e+04
3000
2500
2000
1500
1000
500
0
–5
–4
–3
–2
–1
0
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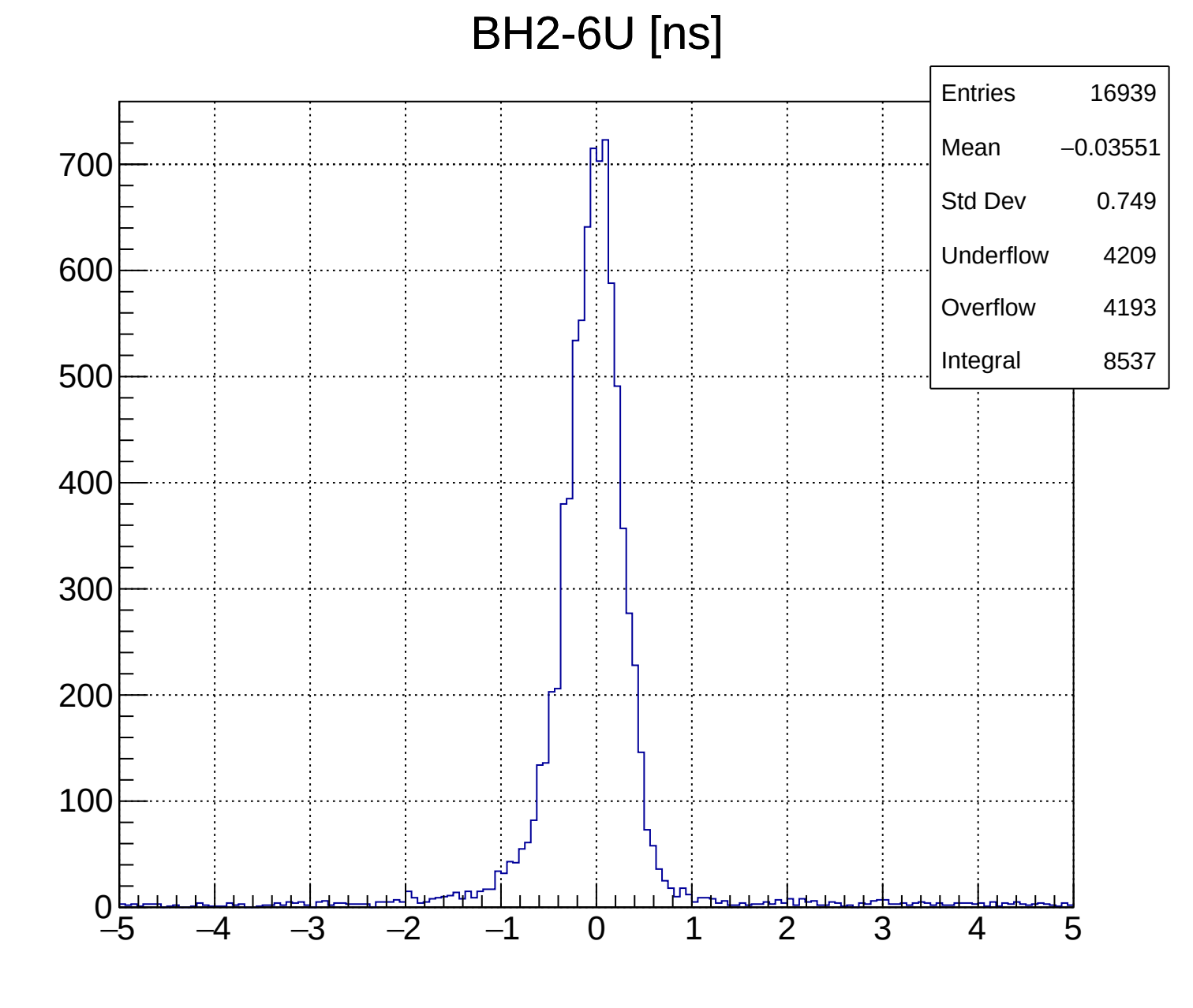
2
3
4
5


BH2-6U [ns]
Entries 16939
Mean −0.03551
Std Dev 0.749
Underflow 4209
Overflow 4193
Integral 8537
700
600
500
400
300
200
100
0
−5
−4
−3
−2
−1
0
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4
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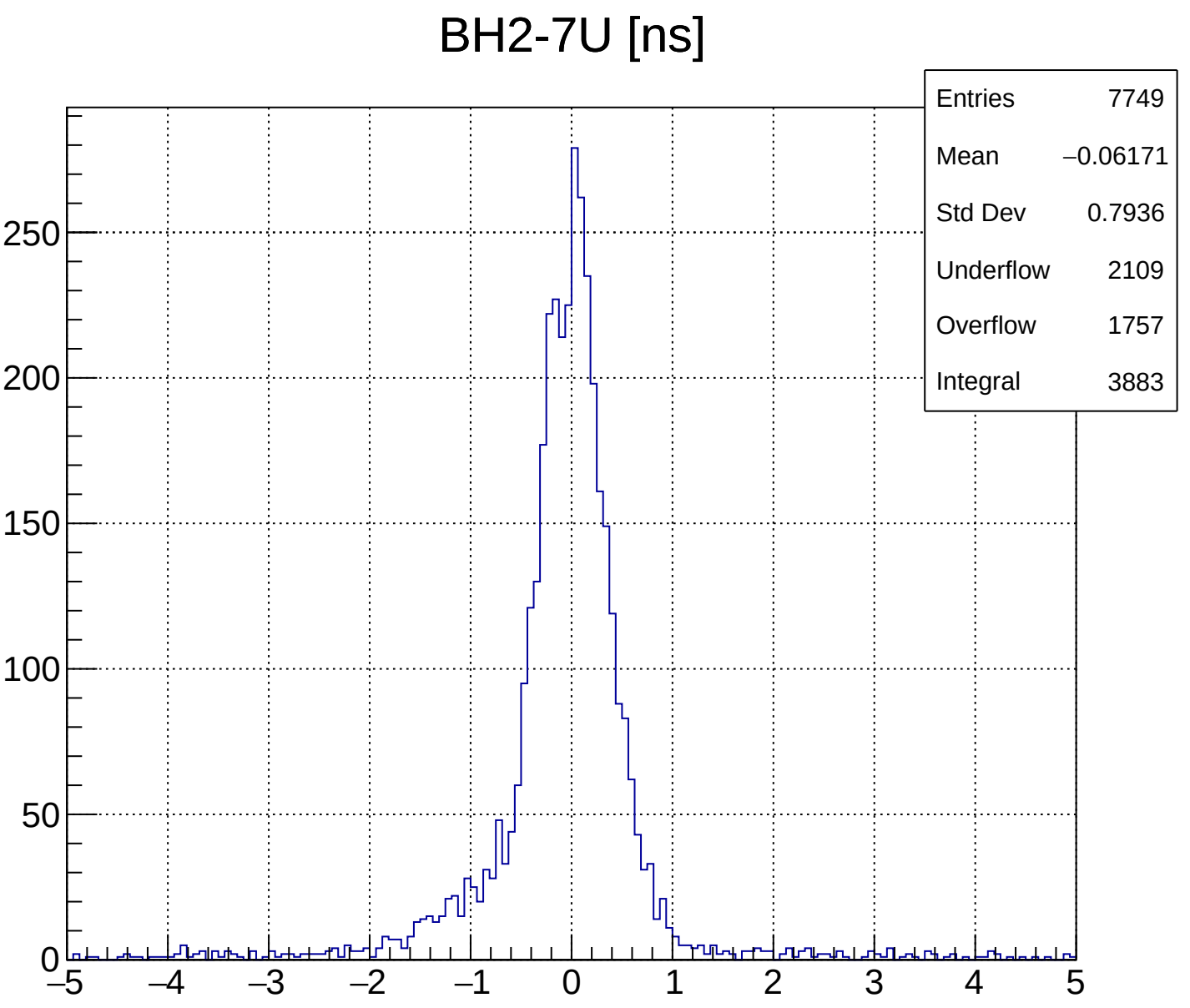
BH2-7U [ns]
Entries 7749
Mean –0.06171
Std Dev 0.7936
Underflow 2109
Overflow 1757
Integral 3883
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200
150
100
50
0
–5
–4
–3
–2
–1
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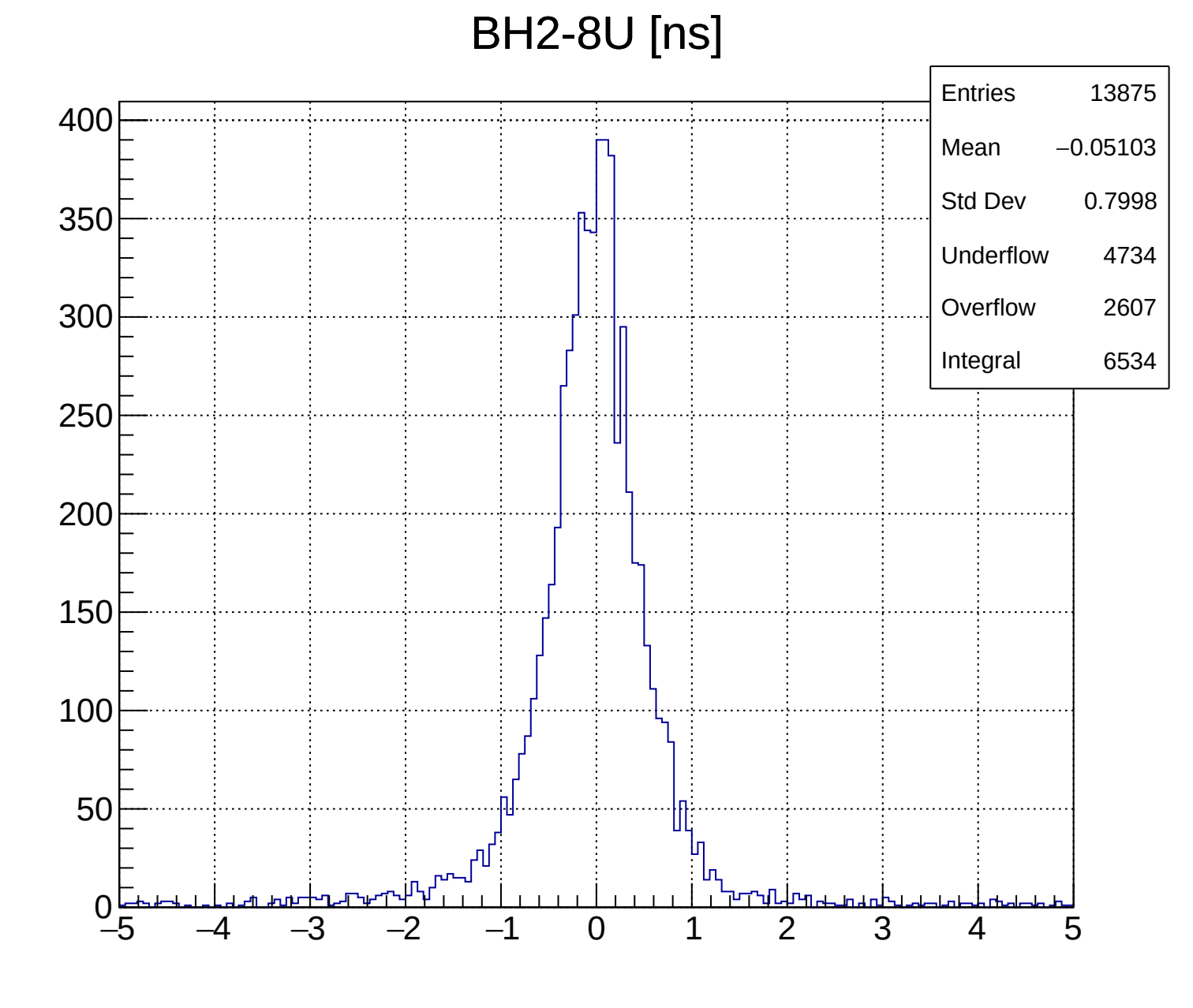
3
4
5


BH2-8U [ns]
Entries 13875
Mean −0.05103
Std Dev 0.7998
Underflow 4734
Overflow 2607
Integral 6534
400
350
300
250
200
150
100
50
0
−5
−4
−3
−2
−1
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2
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4
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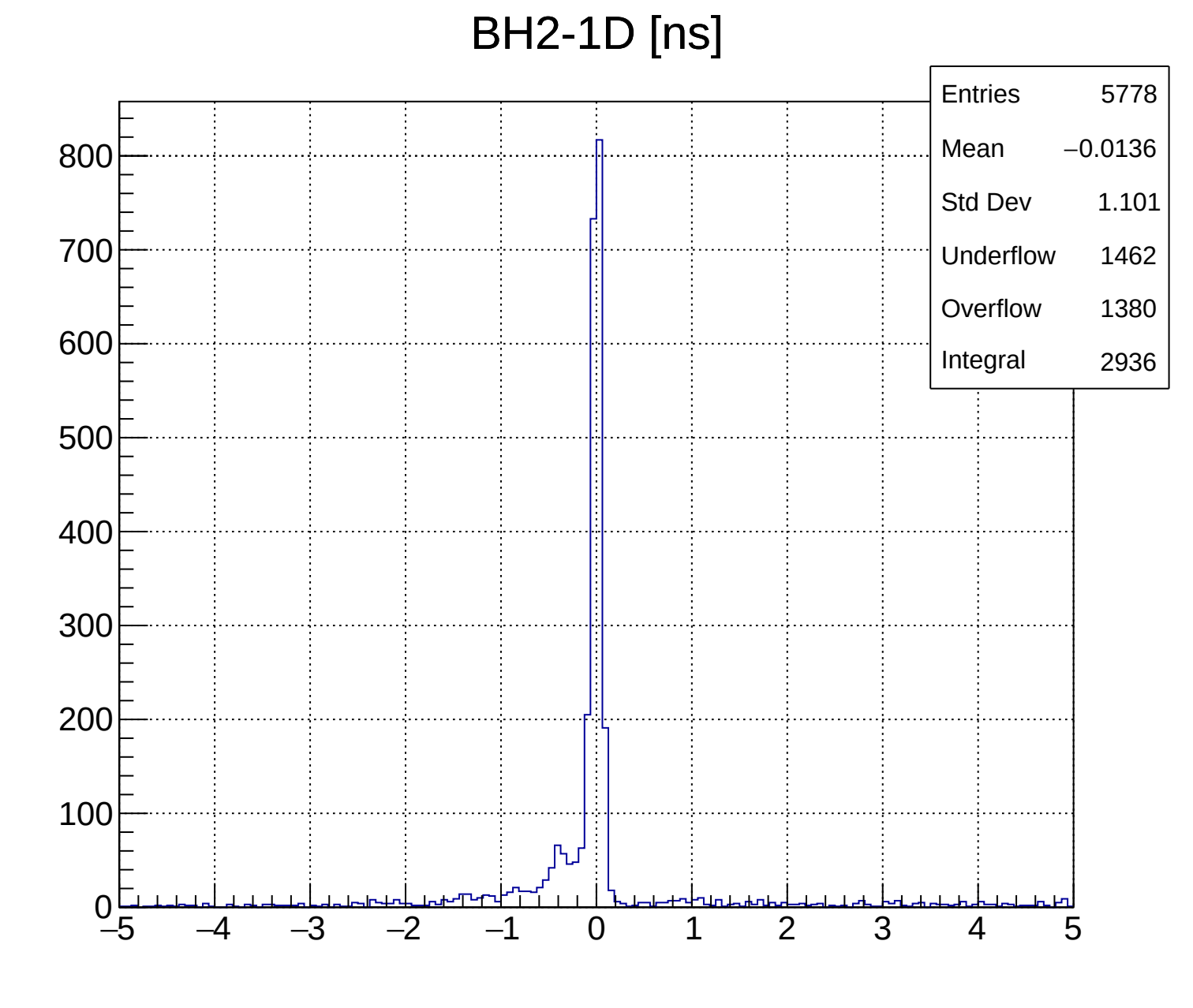
BH2-1D [ns]
Entries 5778
Mean −0.0136
Std Dev 1.101
Underflow 1462
Overflow 1380
Integral 2936
800
700
600
500
400
300
200
100
0
−5
−4
−3
−2
−1
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4
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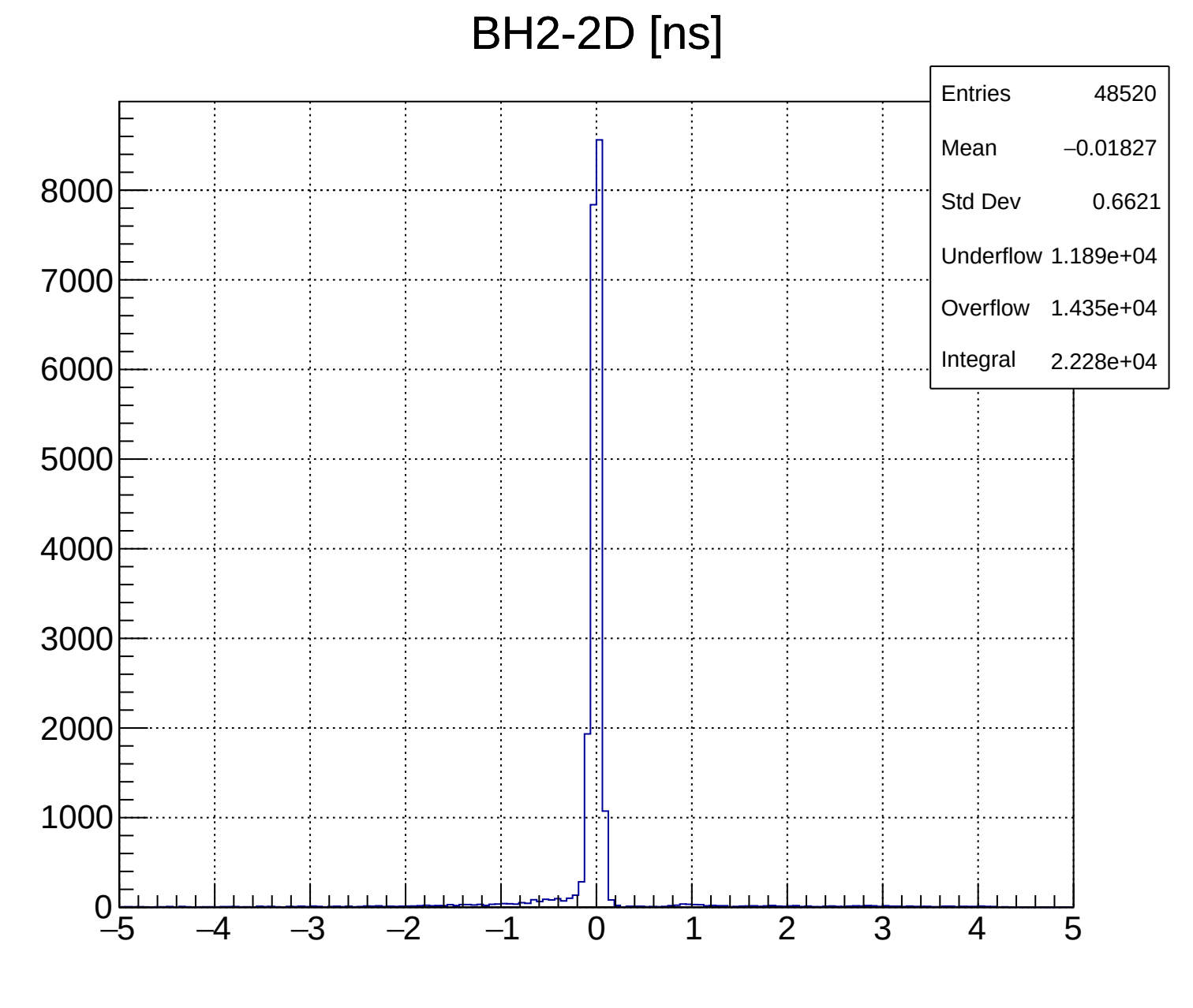
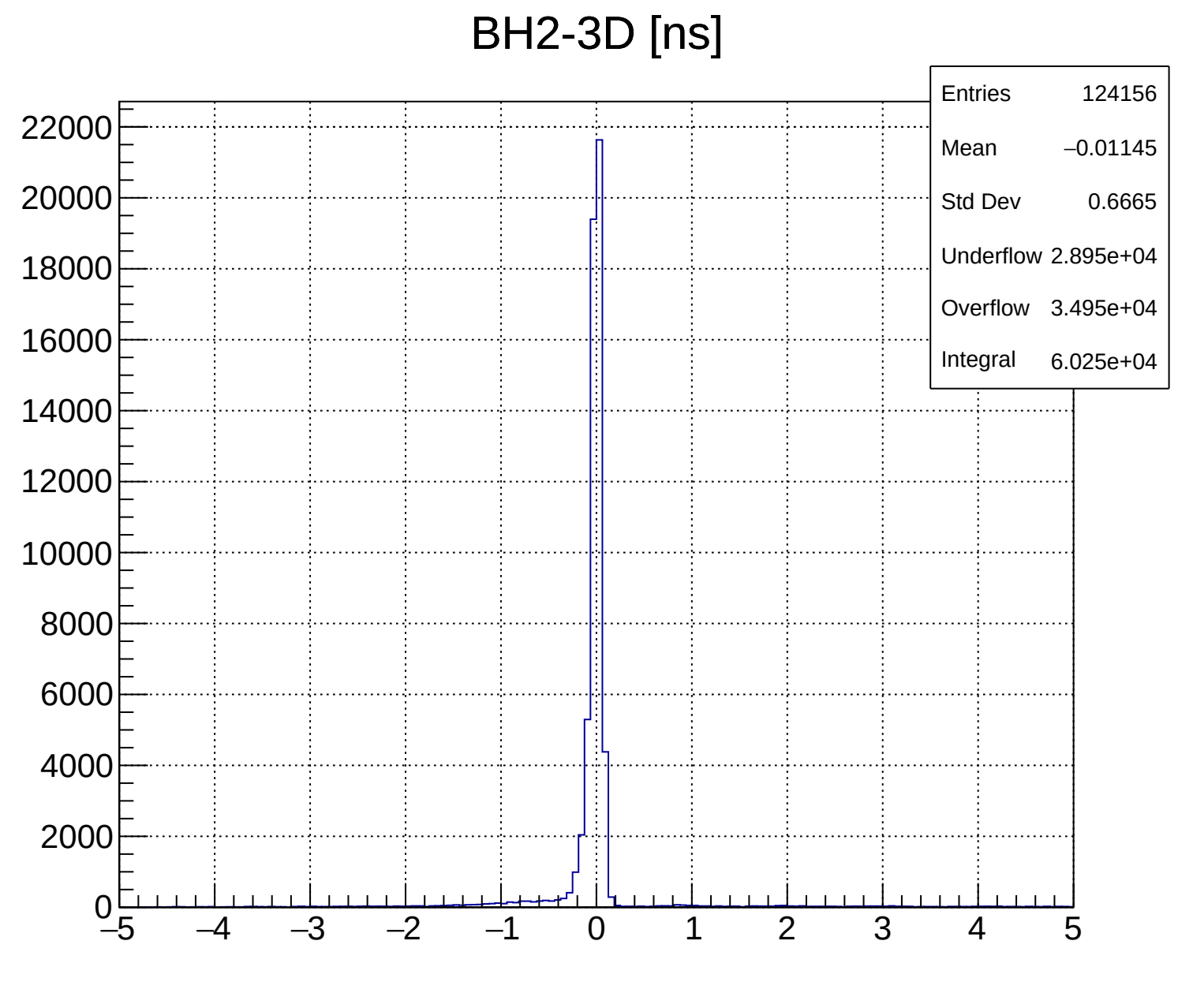

BH2-2D [ns]
Entries 48520
Mean –0.01827
Std Dev 0.6621
Underflow 1.189e+04
Overflow 1.435e+04
Integral 2.228e+04
8000
7000
6000
5000
4000
3000
2000
1000
0
–5
–4
–3
–2
–1
0
1
2
3
4
5


BH2-3D [ns]
Entries 124156
Mean –0.01145
Std Dev 0.6665
Underflow 2.895e+04
Overflow 3.495e+04
Integral 6.025e+04
22000
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
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–4
–3
–2
–1
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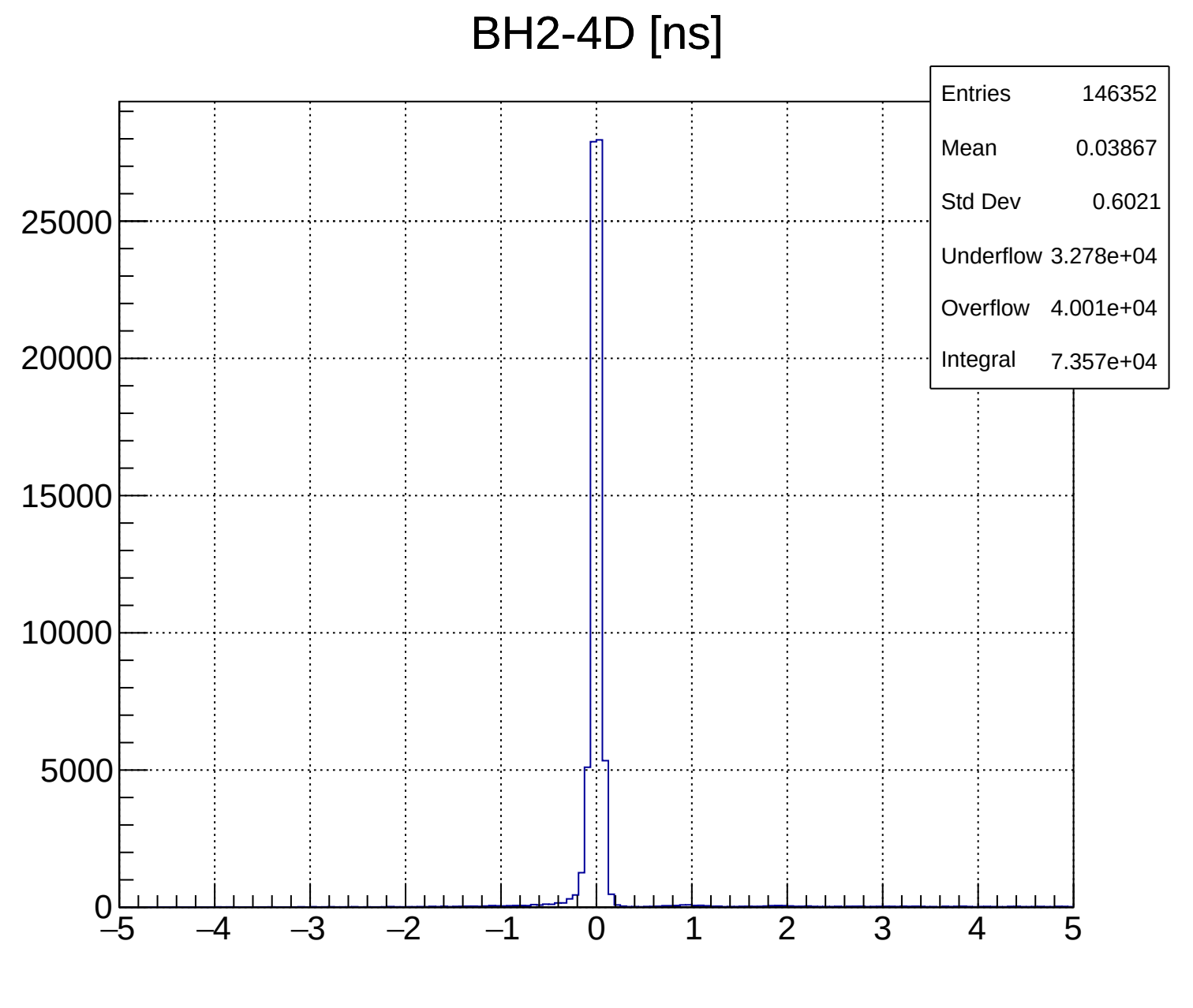
2
3
4
5


BH2-4D [ns]
Entries 146352
Mean 0.03867
Std Dev 0.6021
Underflow 3.278e+04
Overflow 4.001e+04
Integral 7.357e+04
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20000
15000
10000
5000
0
–5
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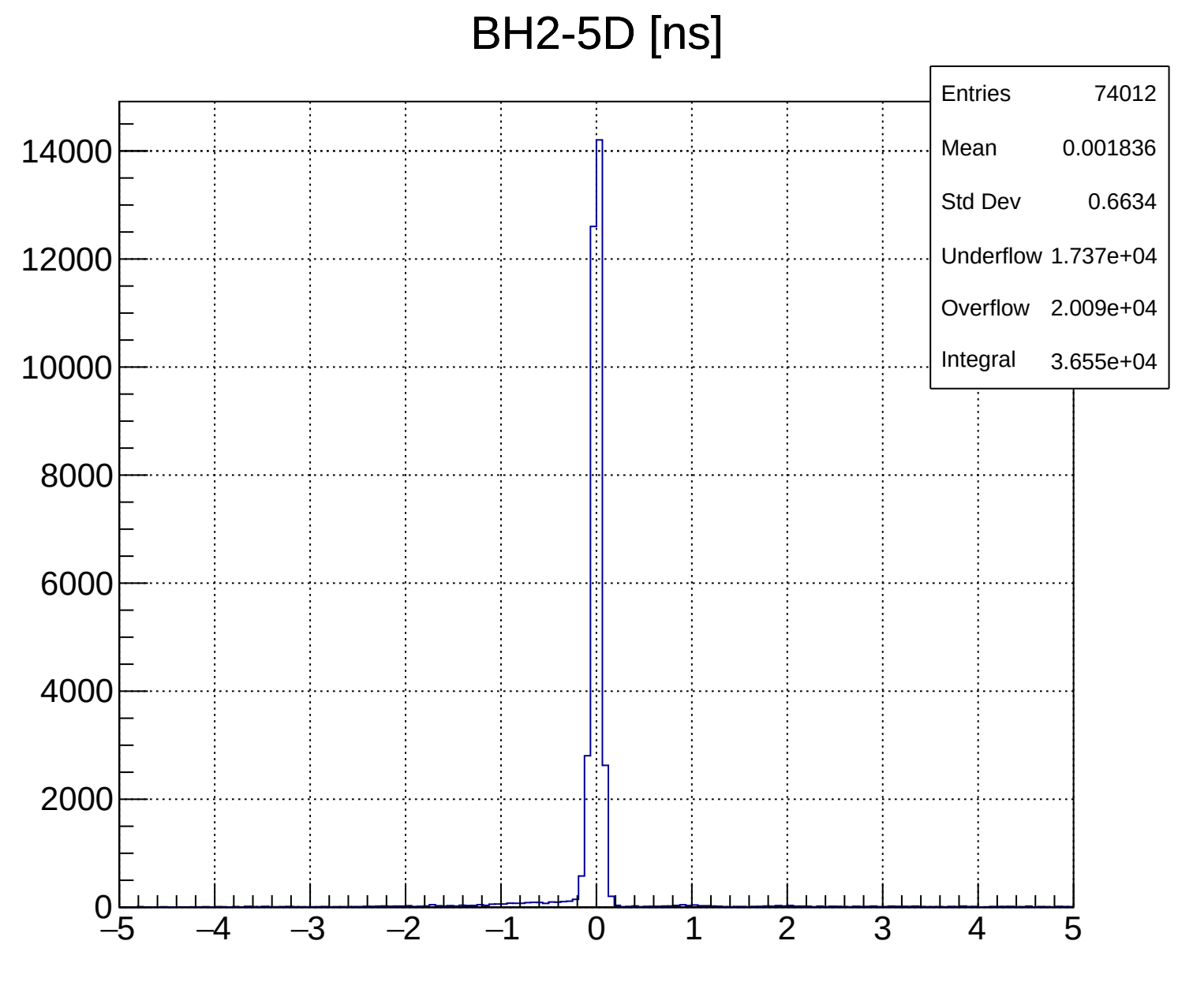
–3
–2
–1
0
1
2
3
4
5


BH2-5D [ns]
Entries 74012
Mean 0.001836
Std Dev 0.6634
Underflow 1.737e+04
Overflow 2.009e+04
Integral 3.655e+04
14000
12000
10000
8000
6000
4000
2000
0
–5
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–3
–2
–1
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3
4
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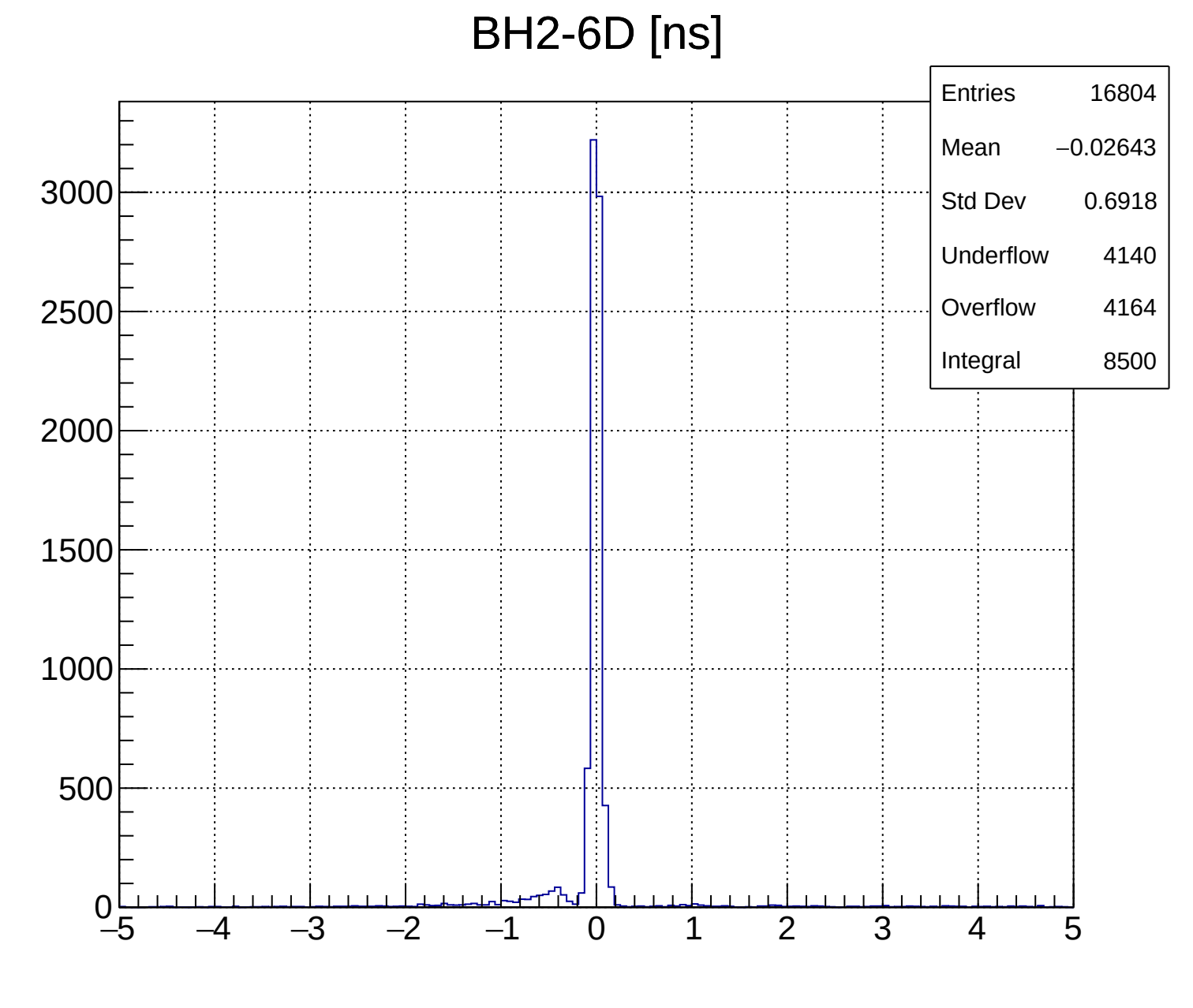
BH2-6D [ns]
Entries 16804
Mean −0.02643
Std Dev 0.6918
Underflow 4140
Overflow 4164
Integral 8500
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2500
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1000
500
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−2
−1
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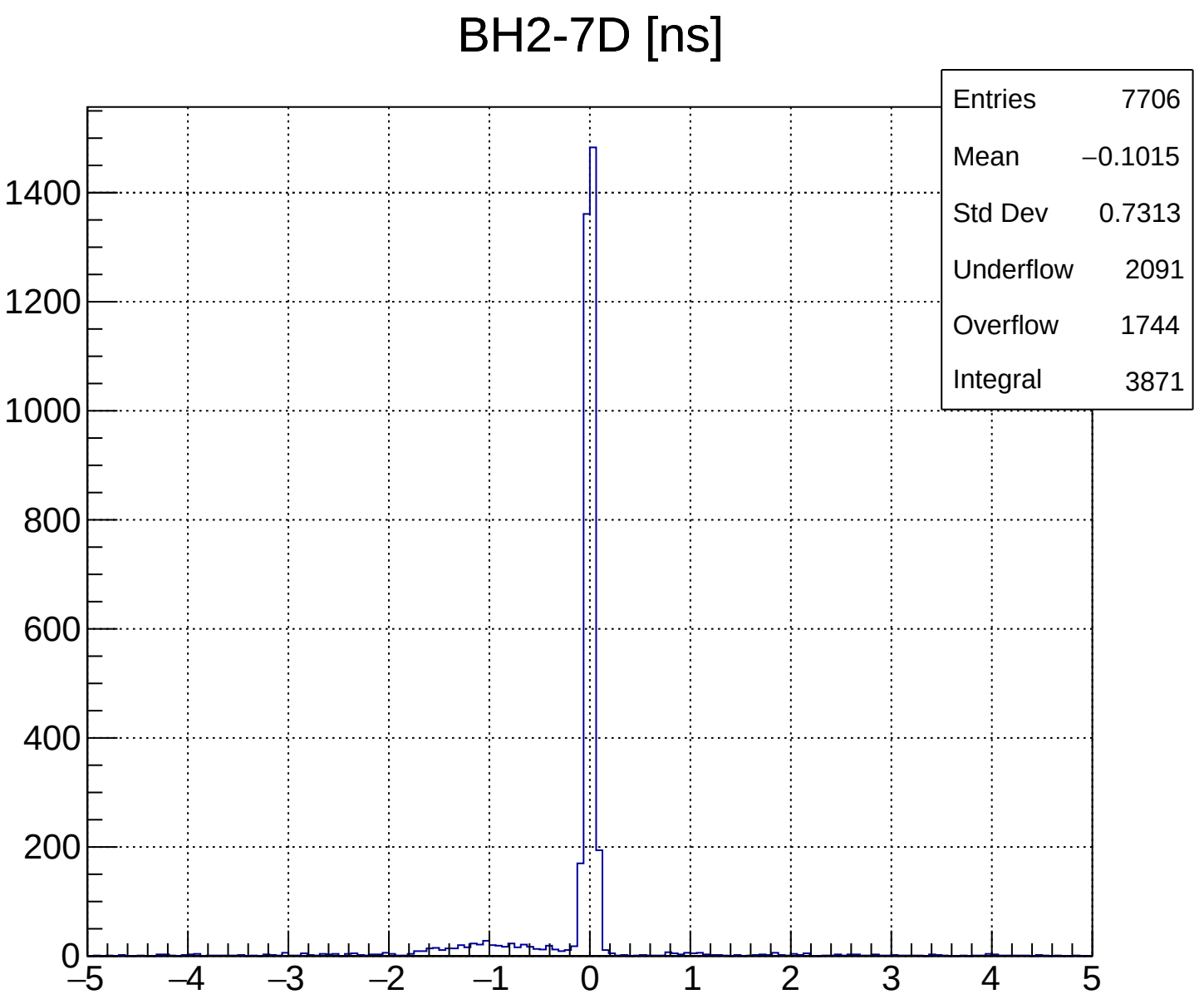
BH2-7D [ns]
Entries 7706
Mean −0.1015
Std Dev 0.7313
Underflow 2091
Overflow 1744
Integral 3871
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200
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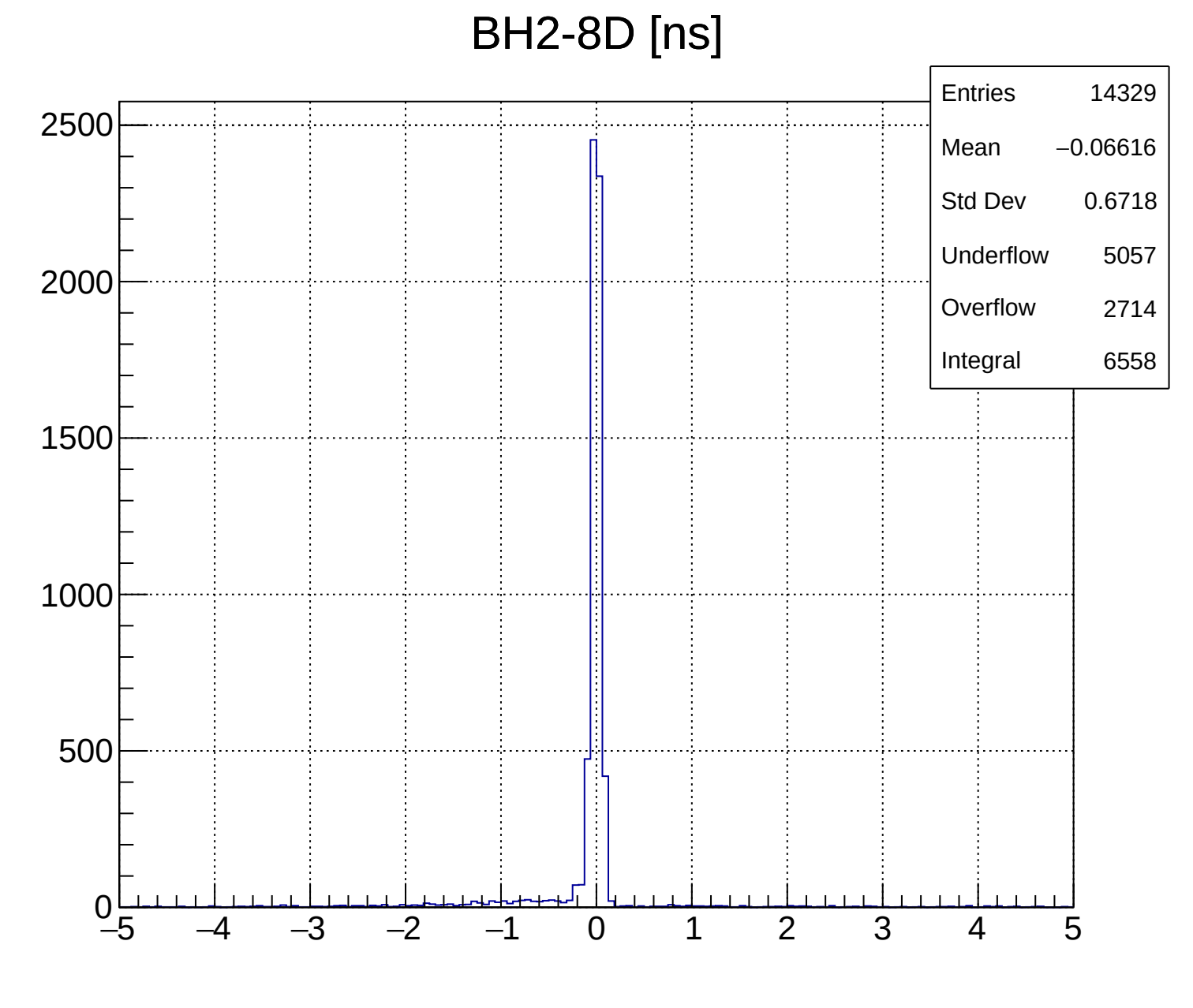
BH2-8D [ns]
Entries 14329
Mean −0.06616
Std Dev 0.6718
Underflow 5057
Overflow 2714
Integral 6558
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500
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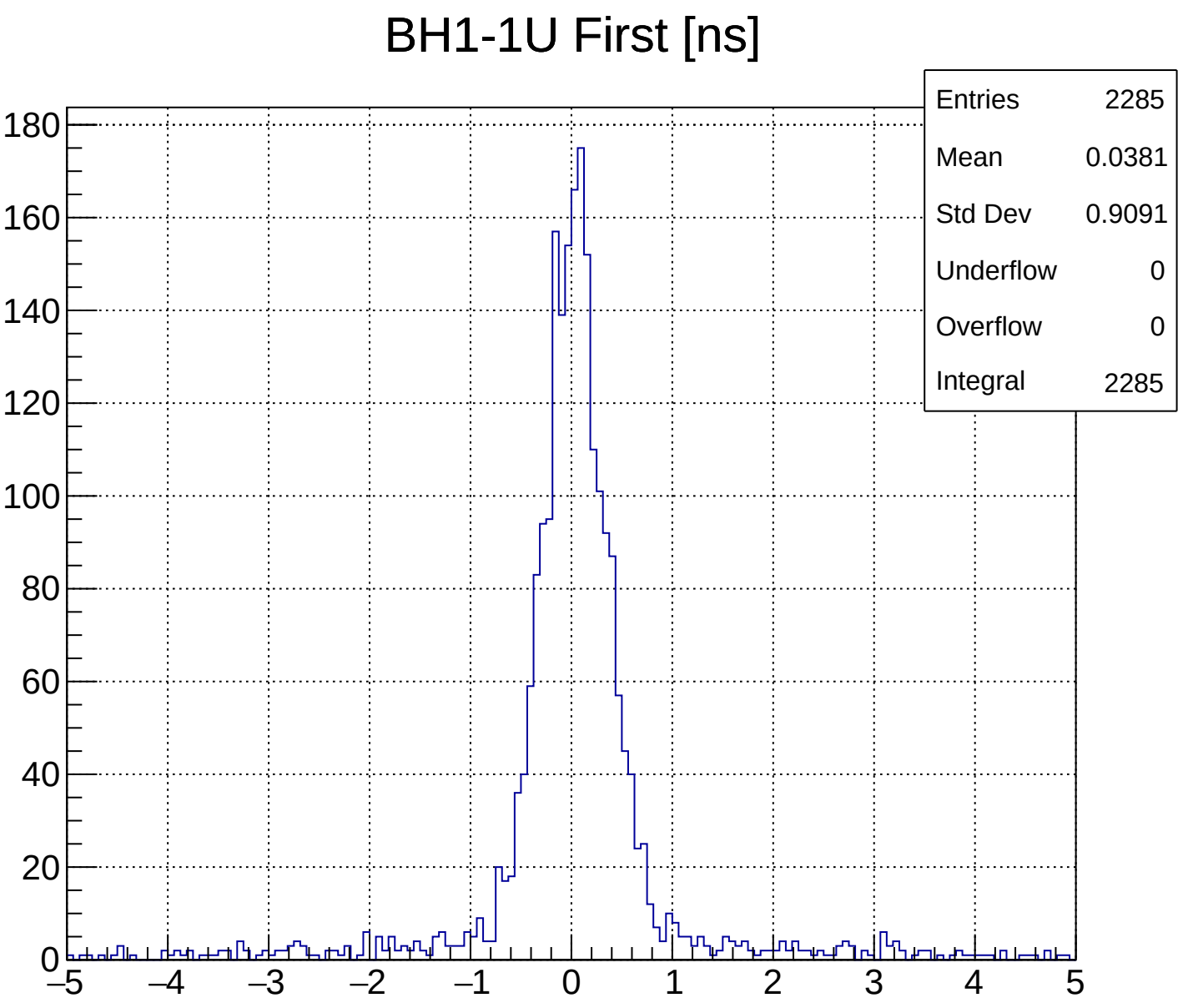
BH1-1U First [ns]
Entries 2285
Mean 0.0381
Std Dev 0.9091
Underflow 0
Overflow 0
Integral 2285
180
160
140
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100
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20
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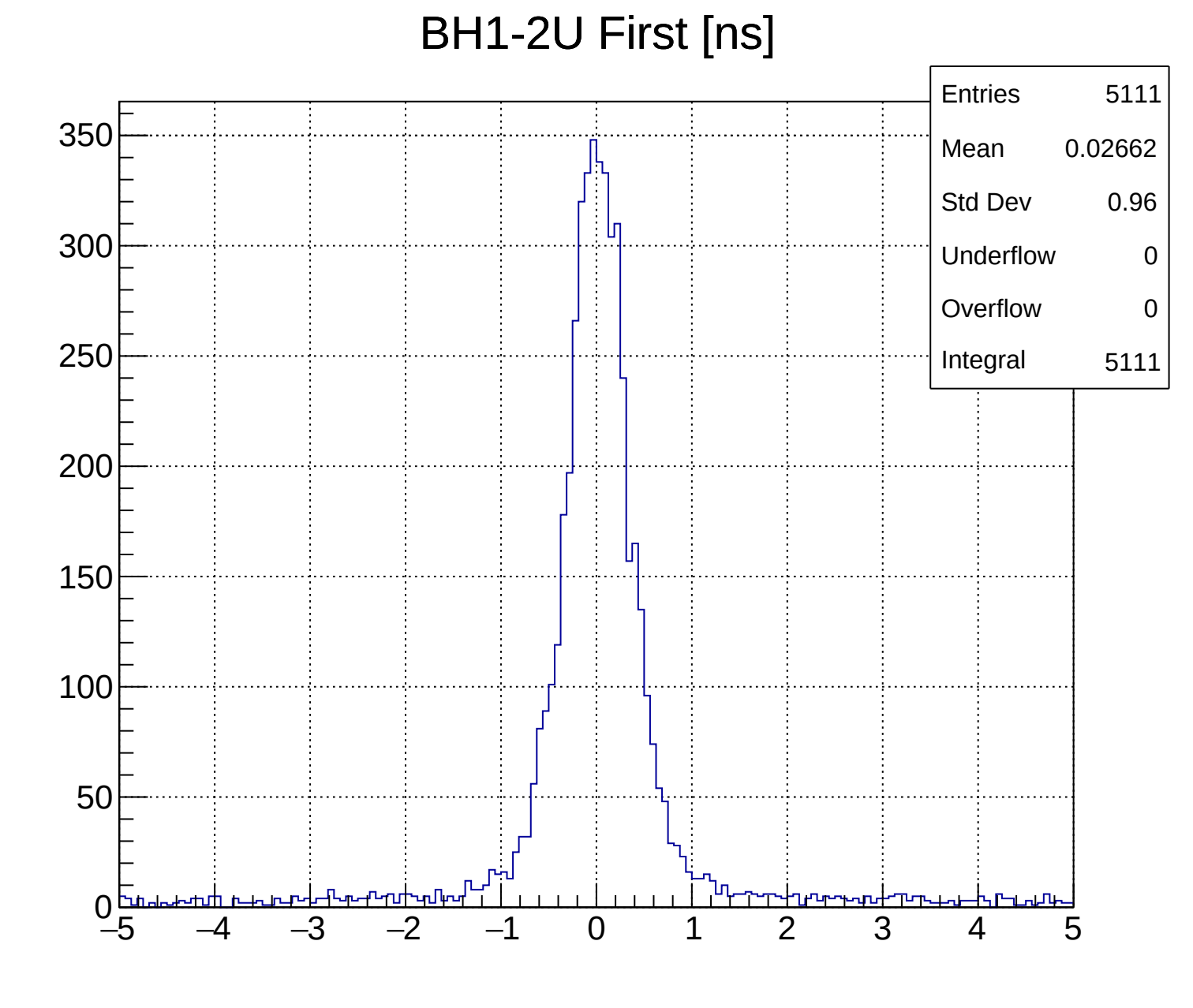
BH1-2U First [ns]
Entries 5111
Mean 0.02662
Std Dev 0.96
Underflow 0
Overflow 0
Integral 5111
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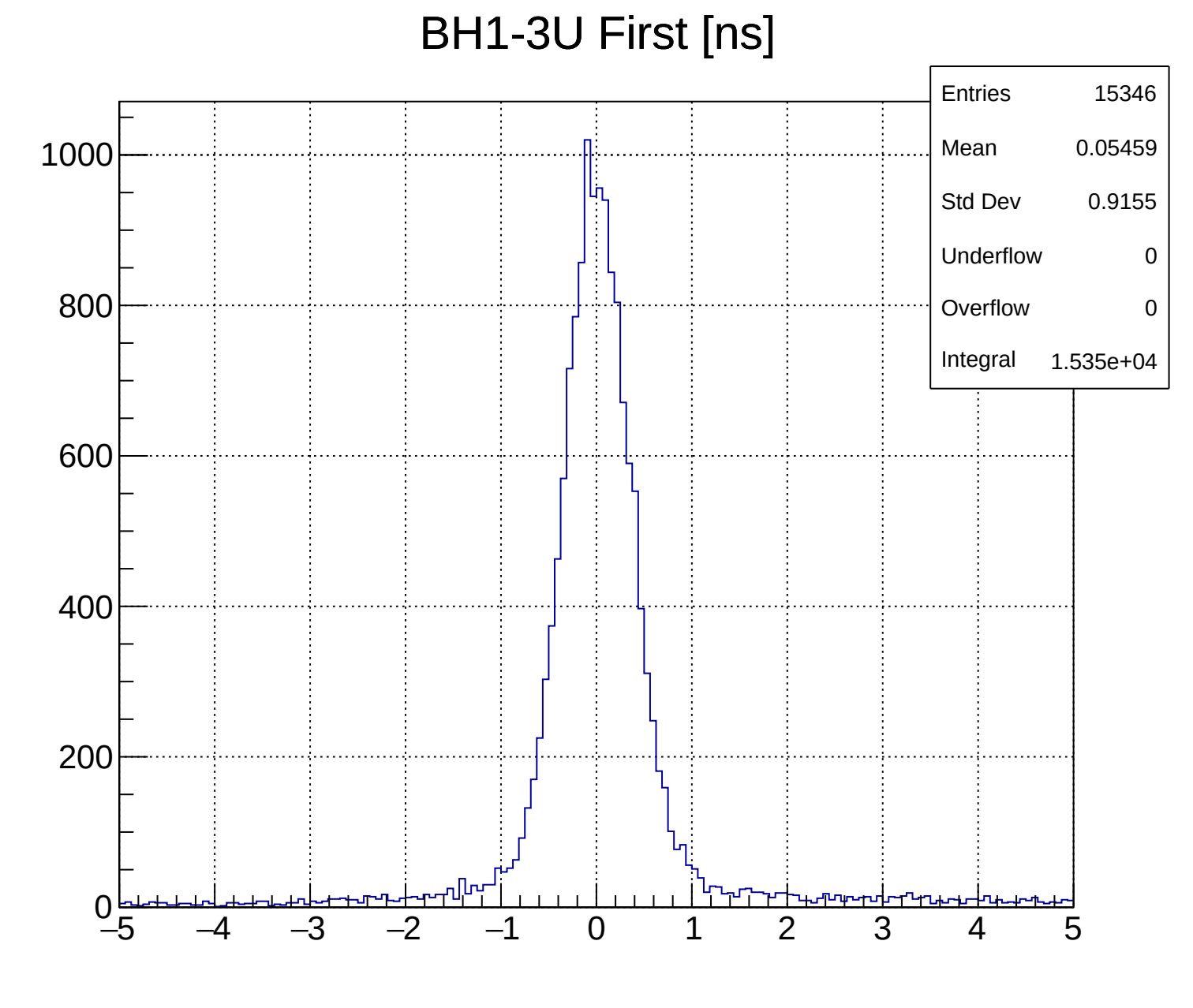
BH1-3U First [ns]
Entries 15346
Mean 0.05459
Std Dev 0.9155
Underflow 0
Overflow 0
Integral 1.535e+04
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600
400
200
0
–5
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–2
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4
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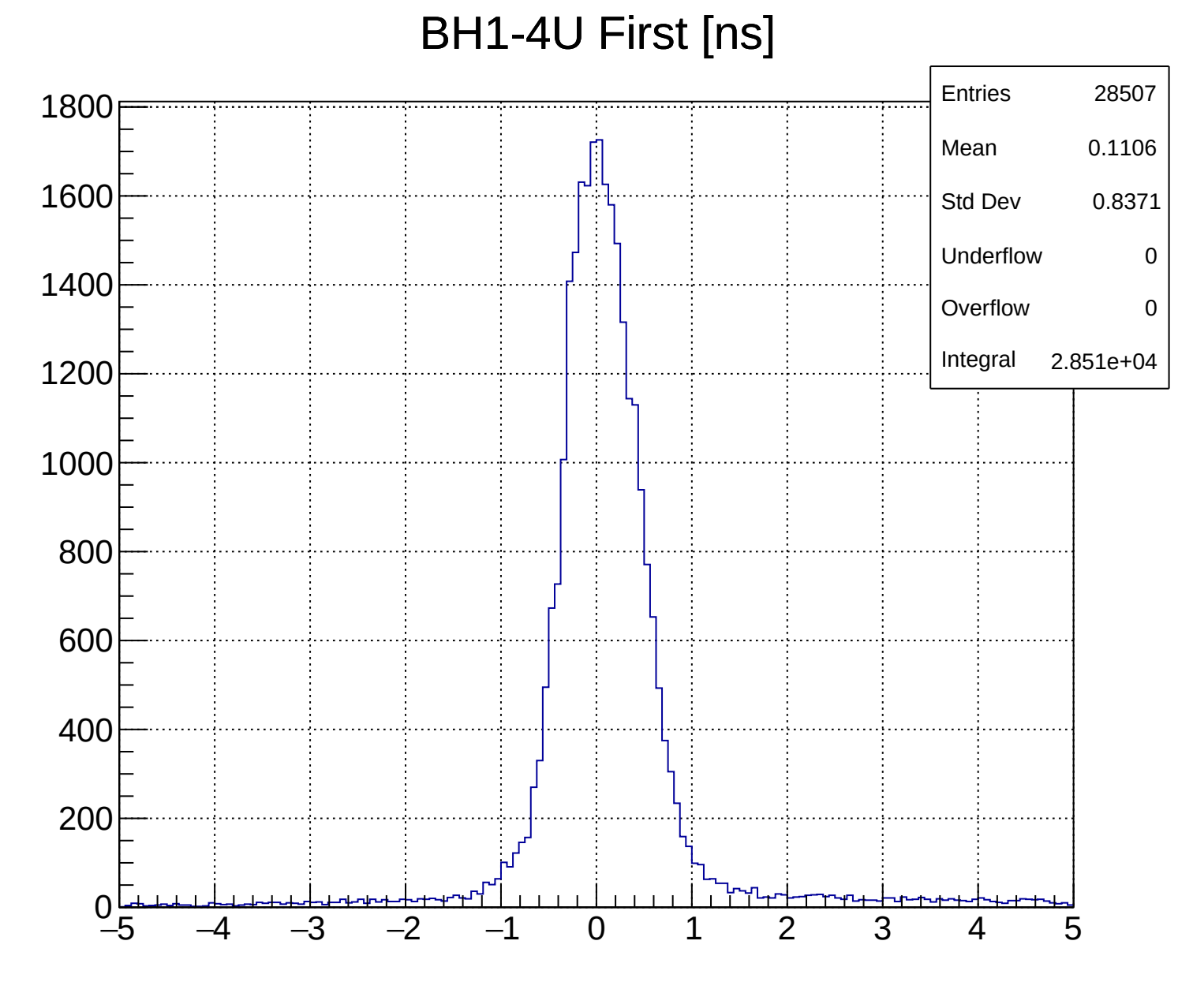
BH1-4U First [ns]
Entries 28507
Mean 0.1106
Std Dev 0.8371
Underflow 0
Overflow 0
Integral 2.851e+04
1800
1600
1400
1200
1000
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600
400
200
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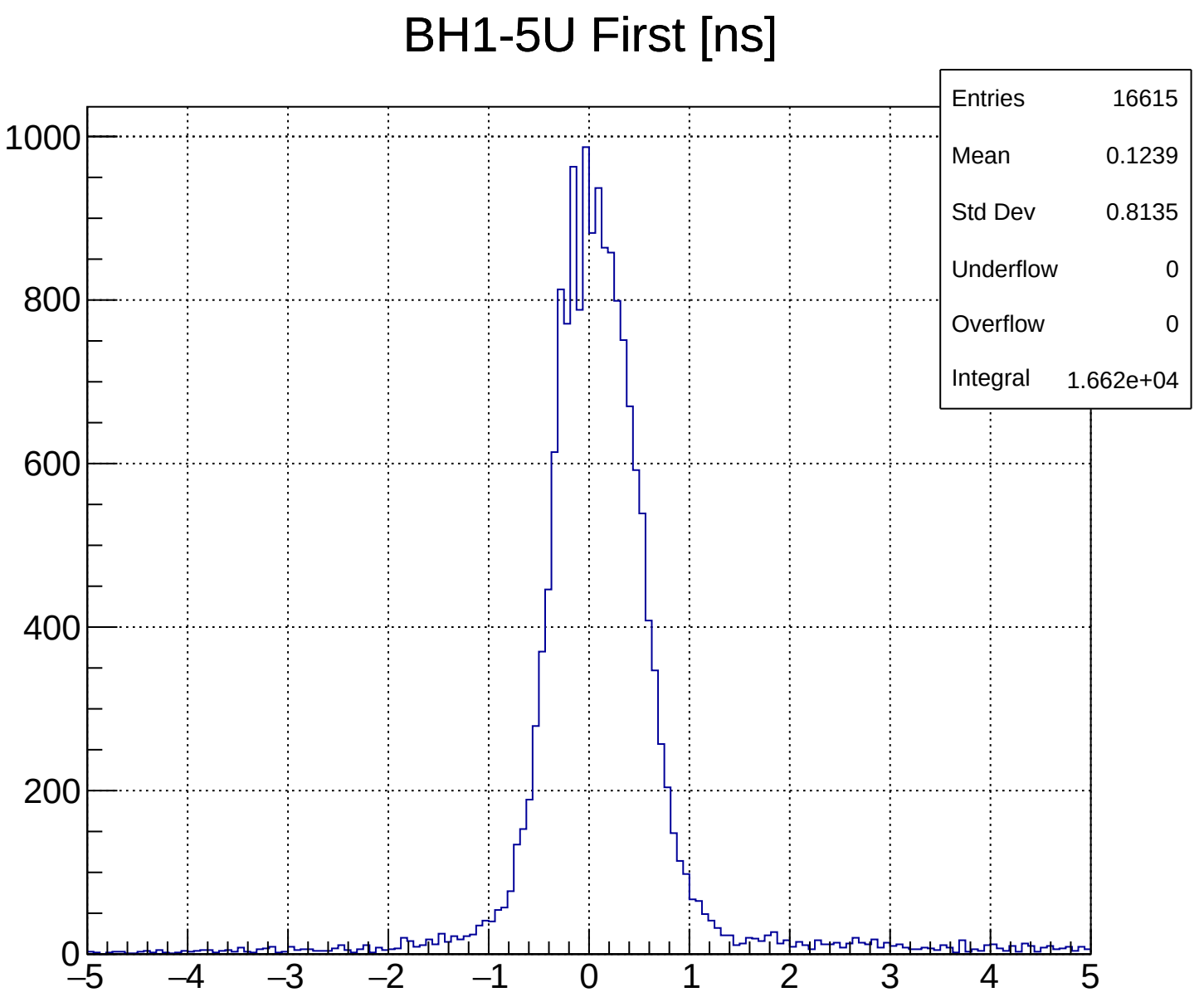
BH1-5U First [ns]
Entries 16615
Mean 0.1239
Std Dev 0.8135
Underflow 0
Overflow 0
Integral 1.662e+04
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600
400
200
0
–5
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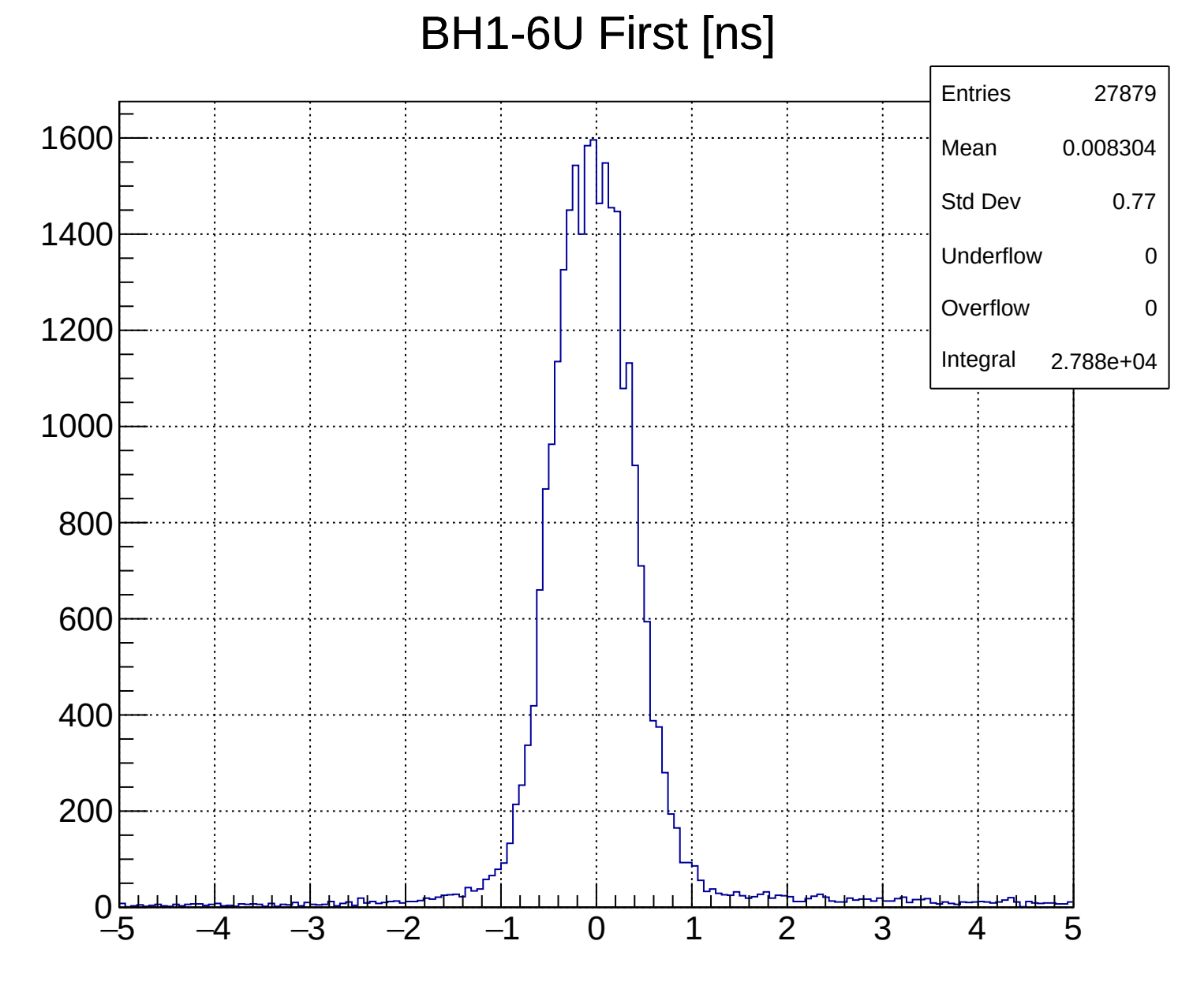
BH1-6U First [ns]
Entries 27879
Mean 0.008304
Std Dev 0.77
Underflow 0
Overflow 0
Integral 2.788e+04
1600
1400
1200
1000
800
600
400
200
0
–5
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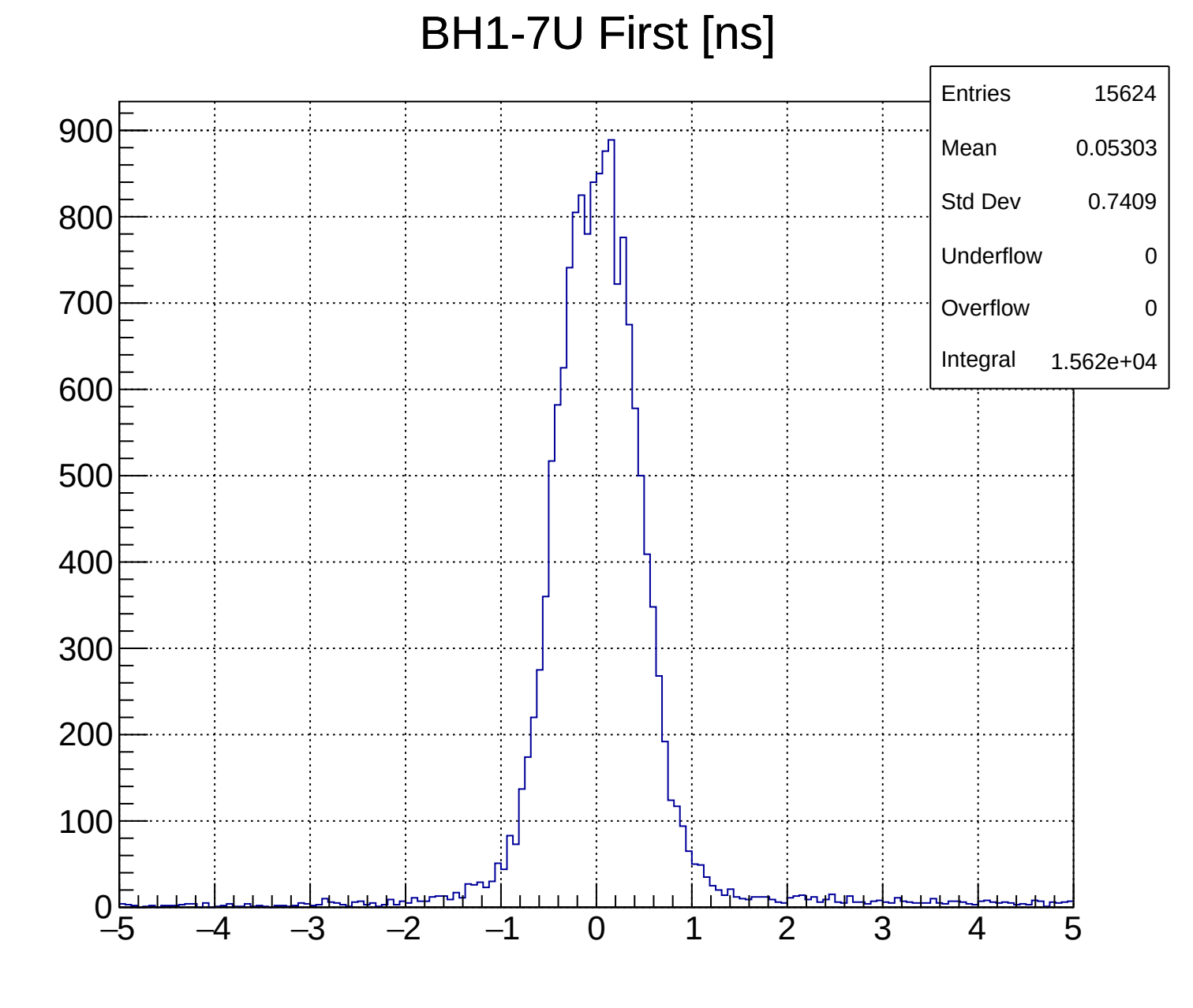
BH1-7U First [ns]
Entries 15624
Mean 0.05303
Std Dev 0.7409
Underflow 0
Overflow 0
Integral 1.562e+04
900
800
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500
400
300
200
100
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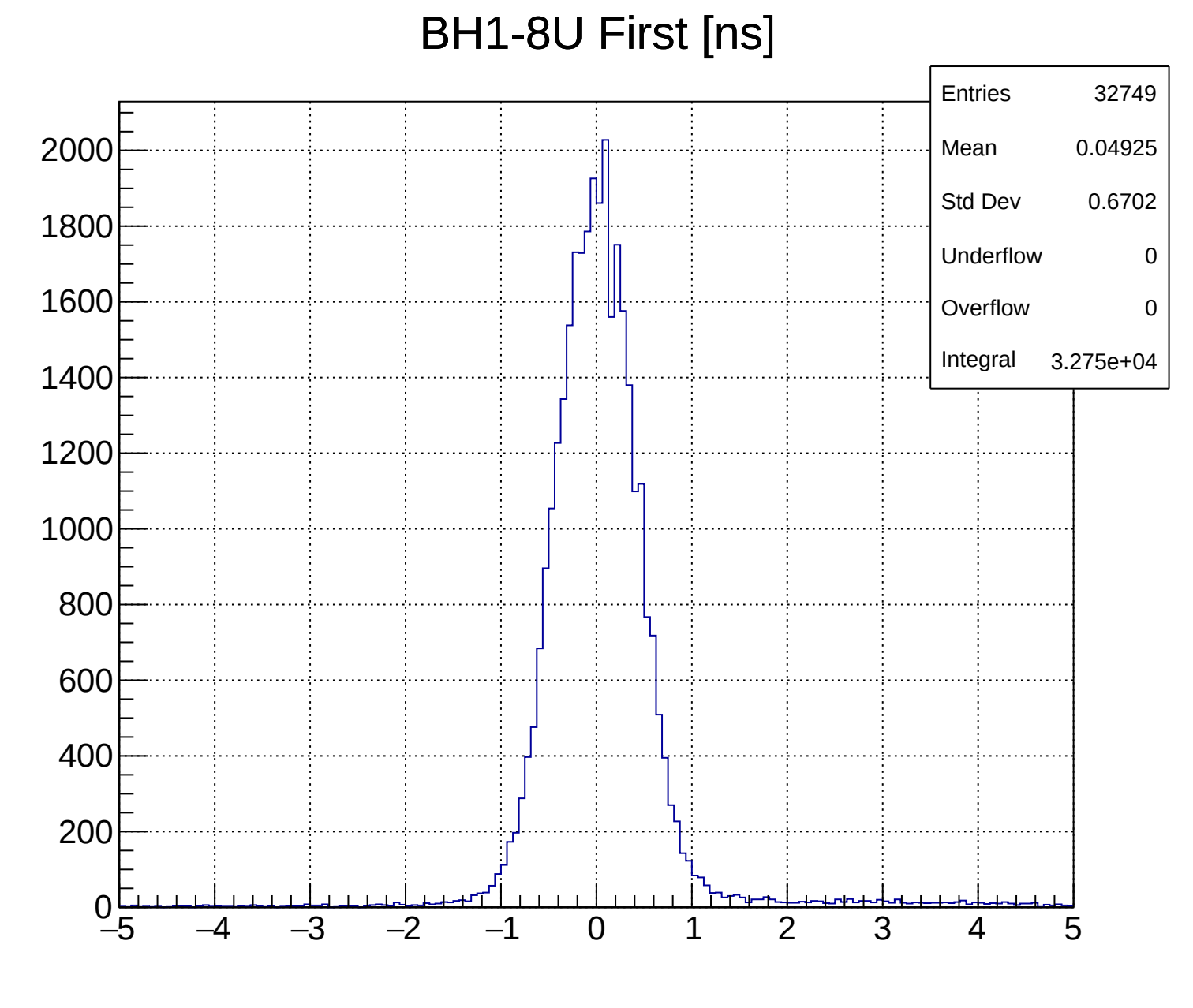
BH1-8U First [ns]
Entries 32749
Mean 0.04925
Std Dev 0.6702
Underflow 0
Overflow 0
Integral 3.275e+04
2000
1800
1600
1400
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200
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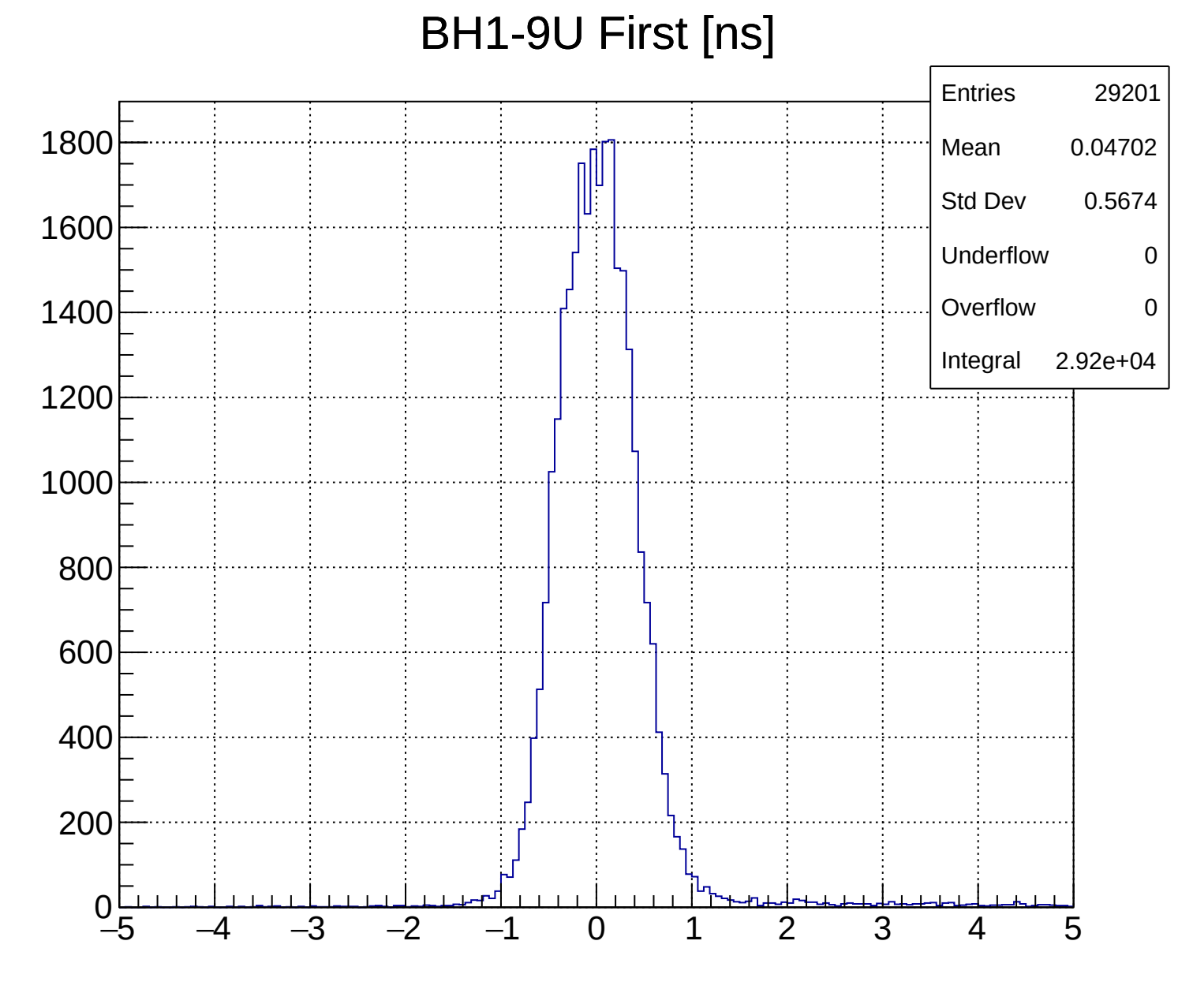
BH1-9U First [ns]
Entries 29201
Mean 0.04702
Std Dev 0.5674
Underflow 0
Overflow 0
Integral 2.92e+04
1800
1600
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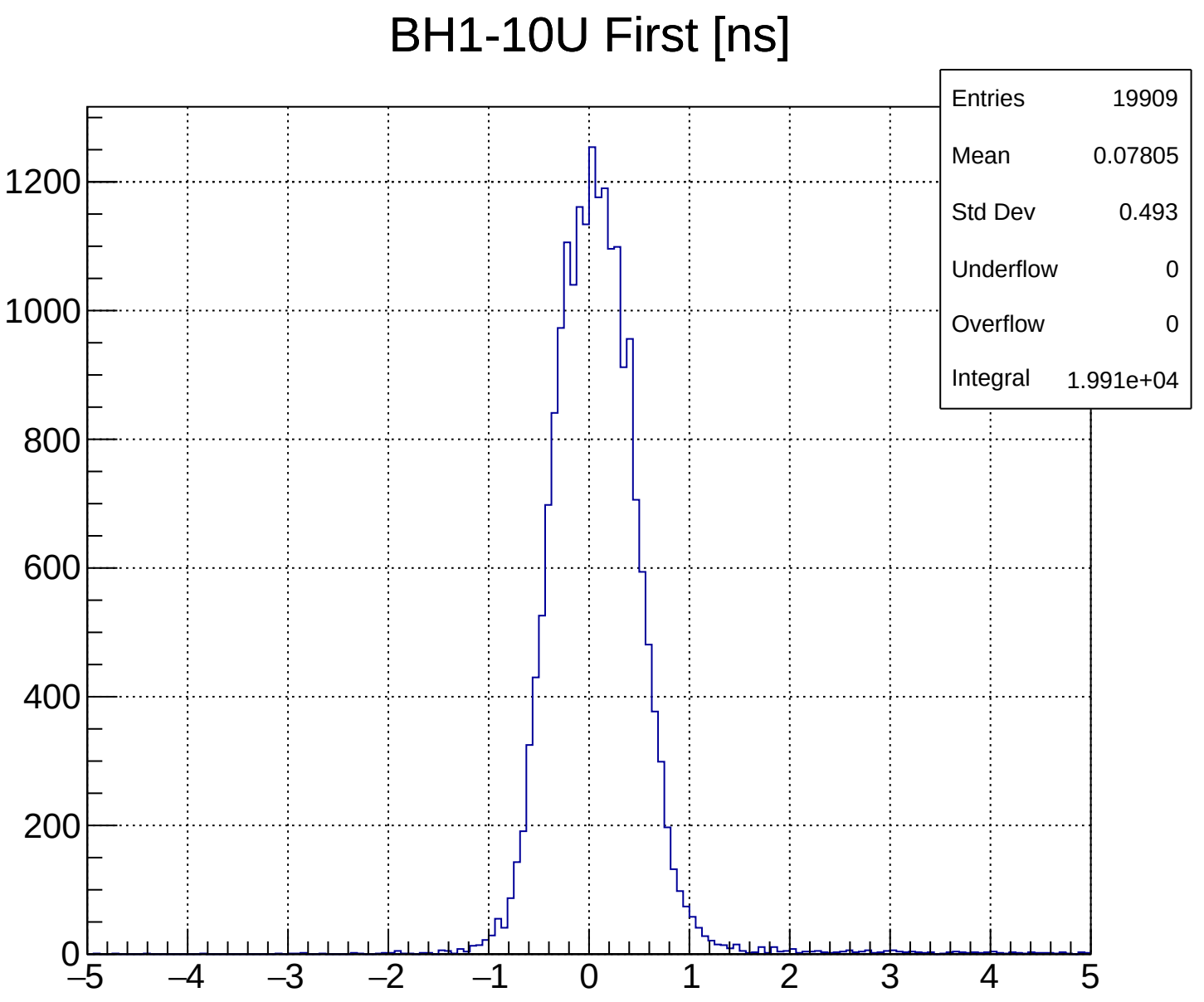
BH1-10U First [ns]
Entries 19909
Mean 0.07805
Std Dev 0.493
Underflow 0
Overflow 0
Integral 1.991e+04
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400
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4
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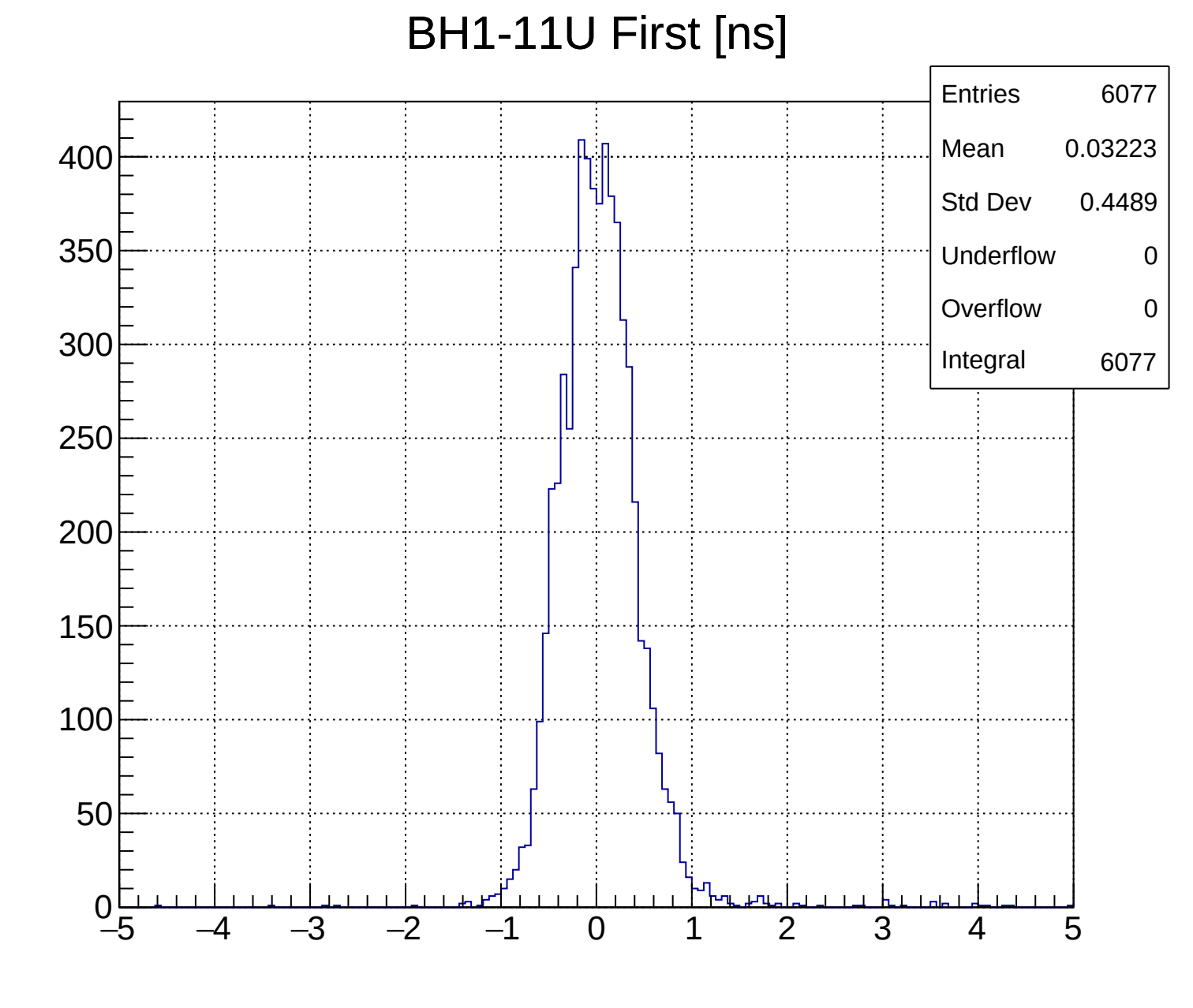
BH1-11U First [ns]
Entries 6077
Mean 0.03223
Std Dev 0.4489
Underflow 0
Overflow 0
Integral 6077
400
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50
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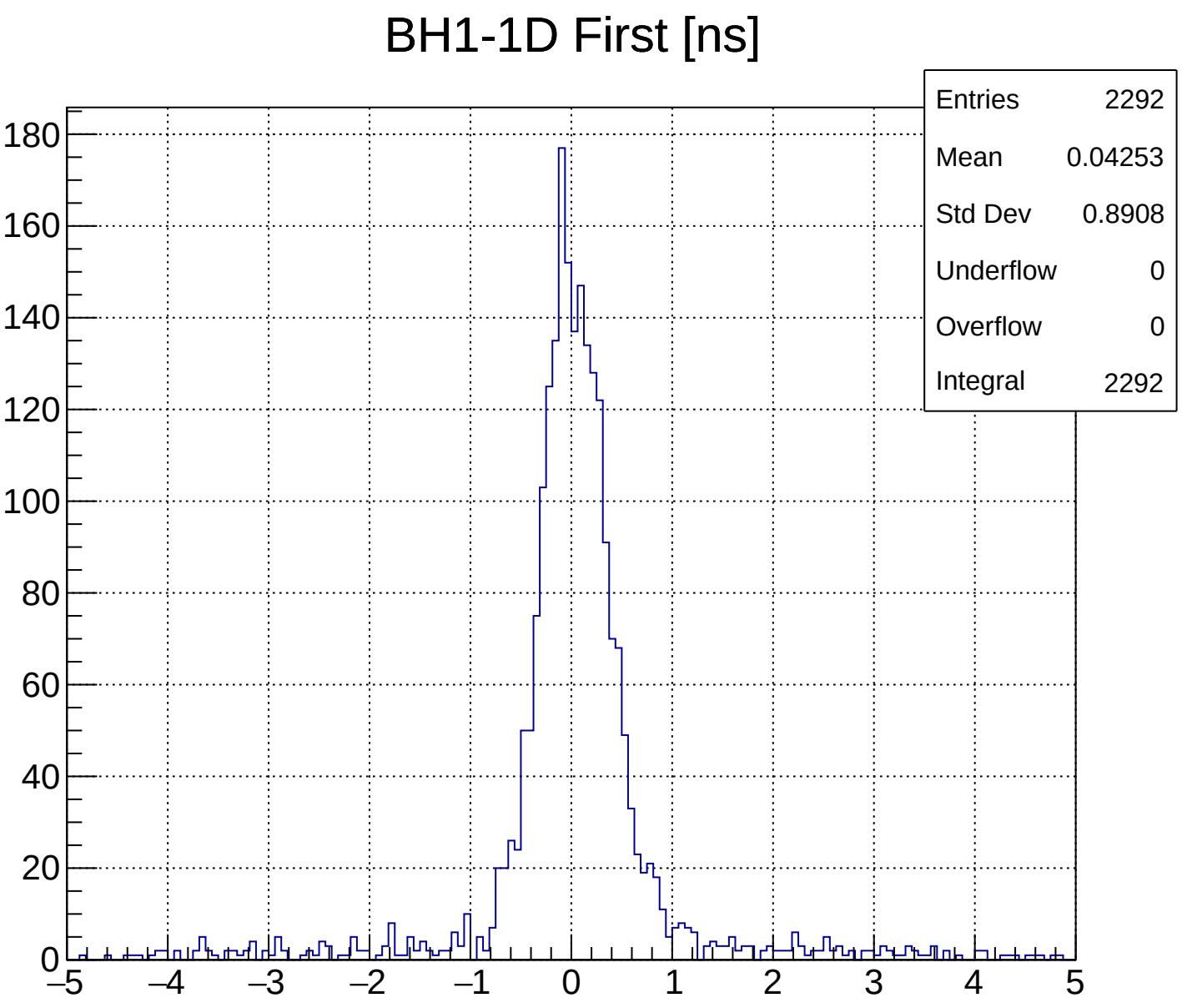
BH1-1D First [ns]
Entries 2292
Mean 0.04253
Std Dev 0.8908
Underflow 0
Overflow 0
Integral 2292
180
160
140
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60
40
20
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3
4
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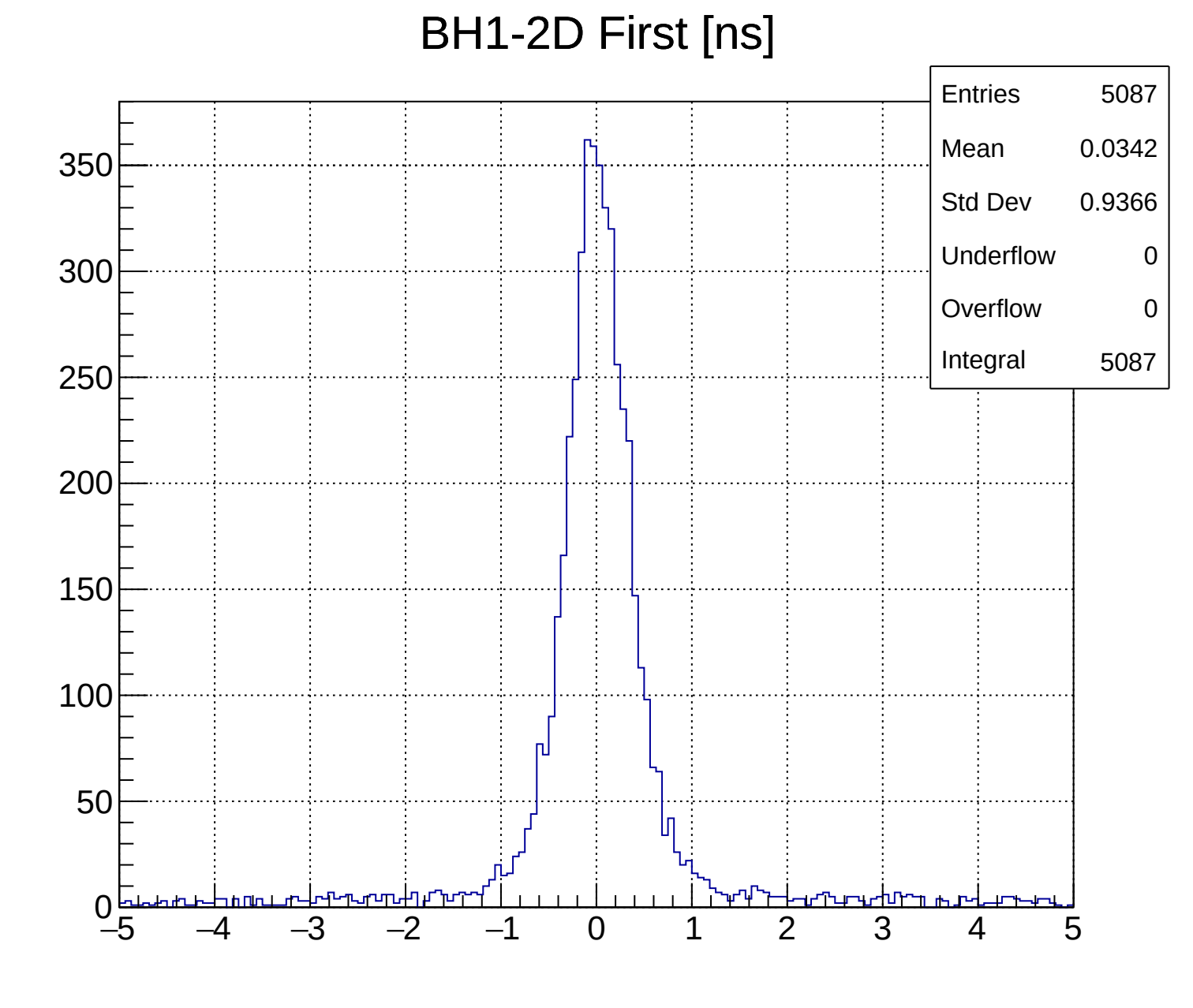
BH1-2D First [ns]
Entries 5087
Mean 0.0342
Std Dev 0.9366
Underflow 0
Overflow 0
Integral 5087
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200
150
100
50
0
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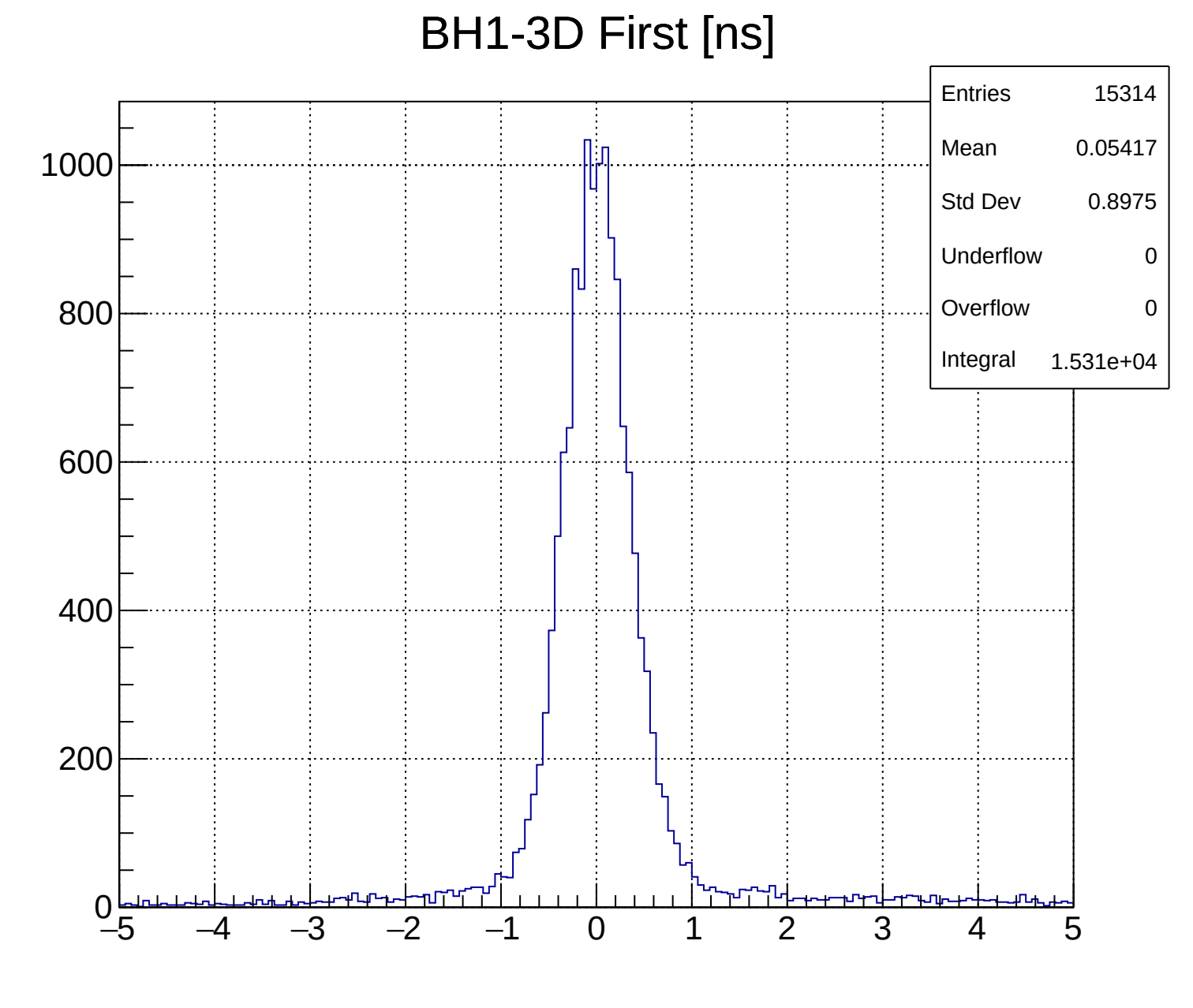
2
3
4
5


BH1-3D First [ns]
Entries 15314
Mean 0.05417
Std Dev 0.8975
Underflow 0
Overflow 0
Integral 1.531e+04
1000
800
600
400
200
0
–5
–4
–3
–2
–1
0
1
2
3
4
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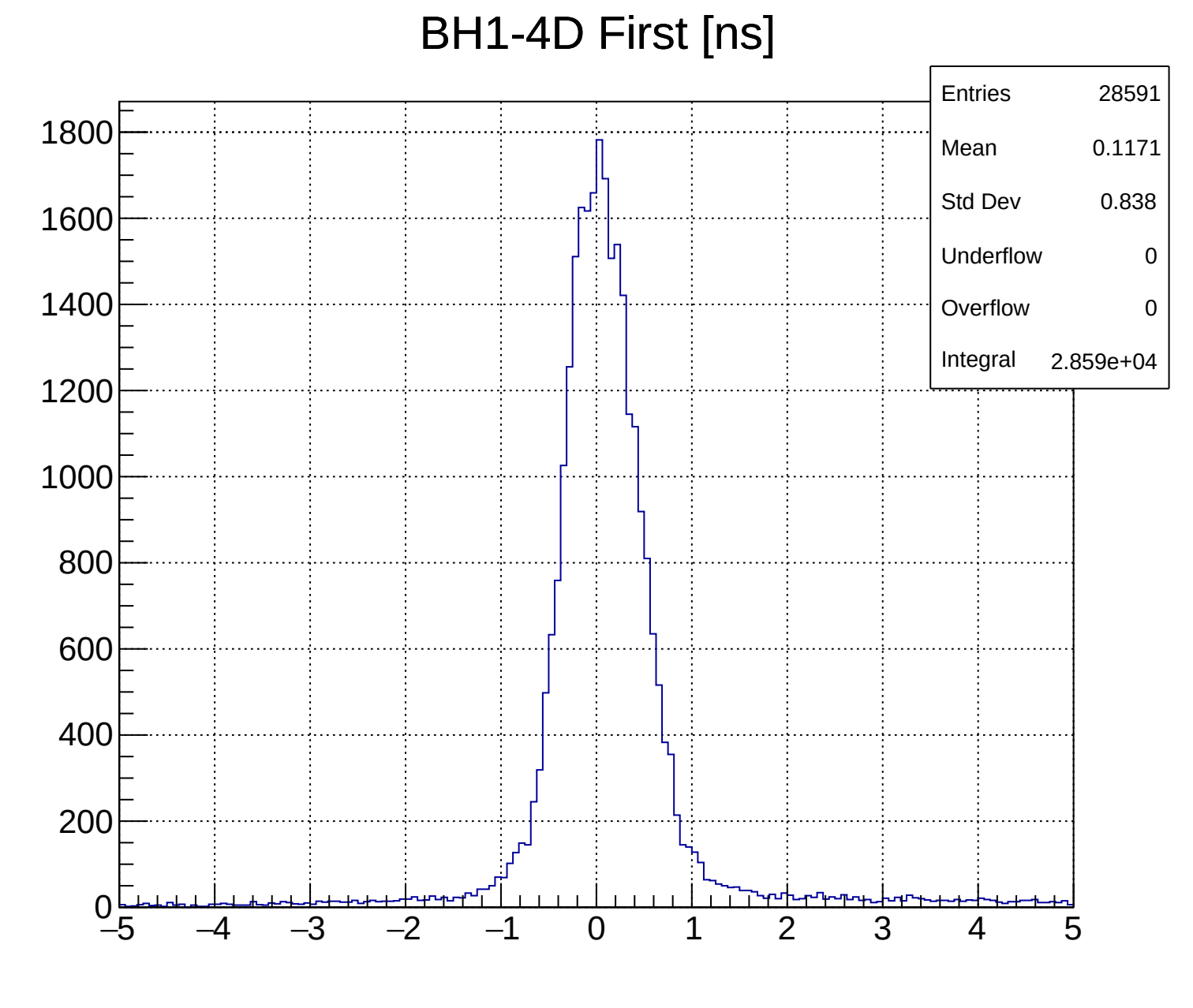
BH1-4D First [ns]
Entries 28591
Mean 0.1171
Std Dev 0.838
Underflow 0
Overflow 0
Integral 2.859e+04
1800
1600
1400
1200
1000
800
600
400
200
0
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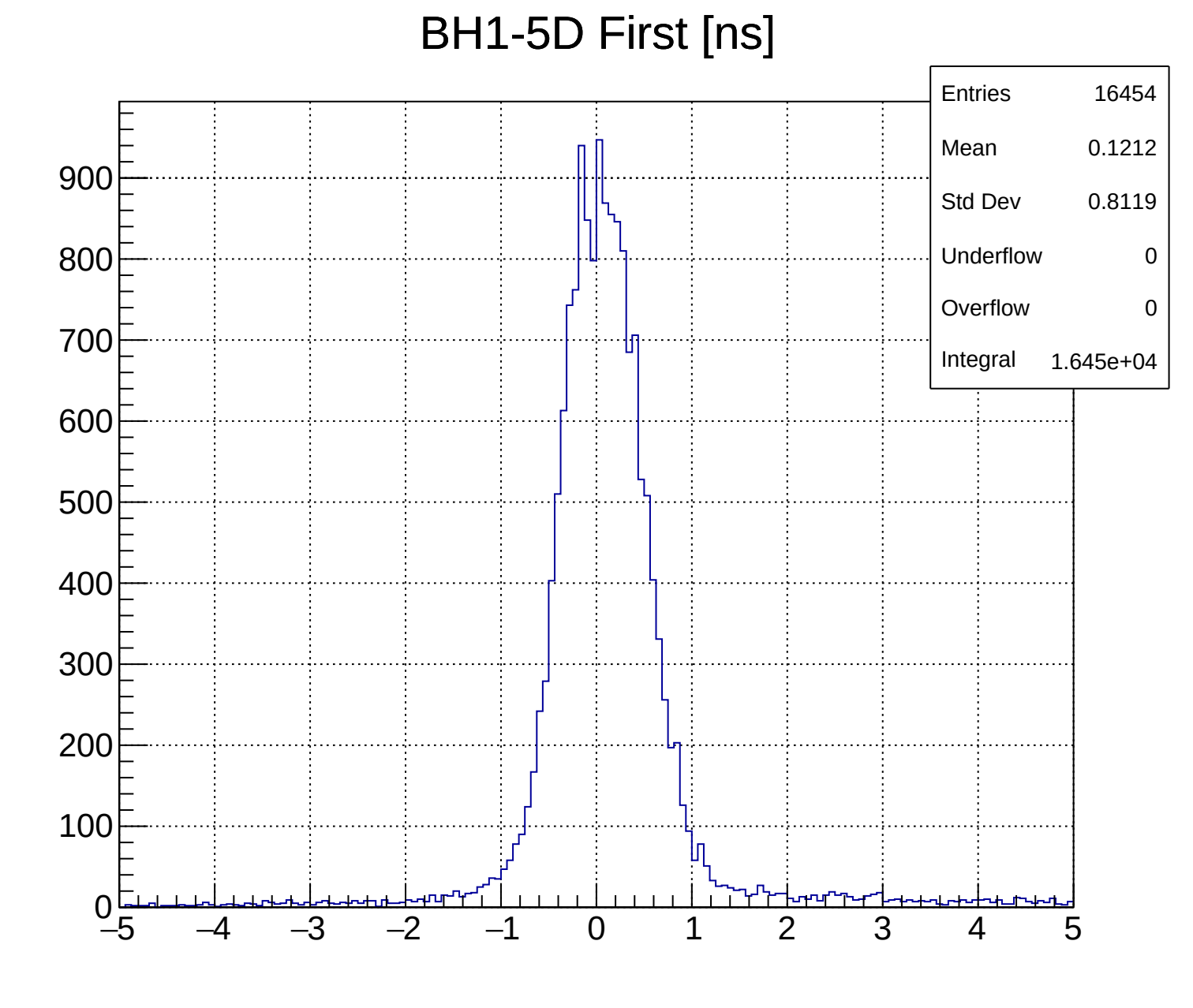
–4
–3
–2
–1
0
1
2
3
4
5


BH1-5D First [ns]
Entries 16454
Mean 0.1212
Std Dev 0.8119
Underflow 0
Overflow 0
Integral 1.645e+04
900
800
700
600
500
400
300
200
100
0
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2
3
4
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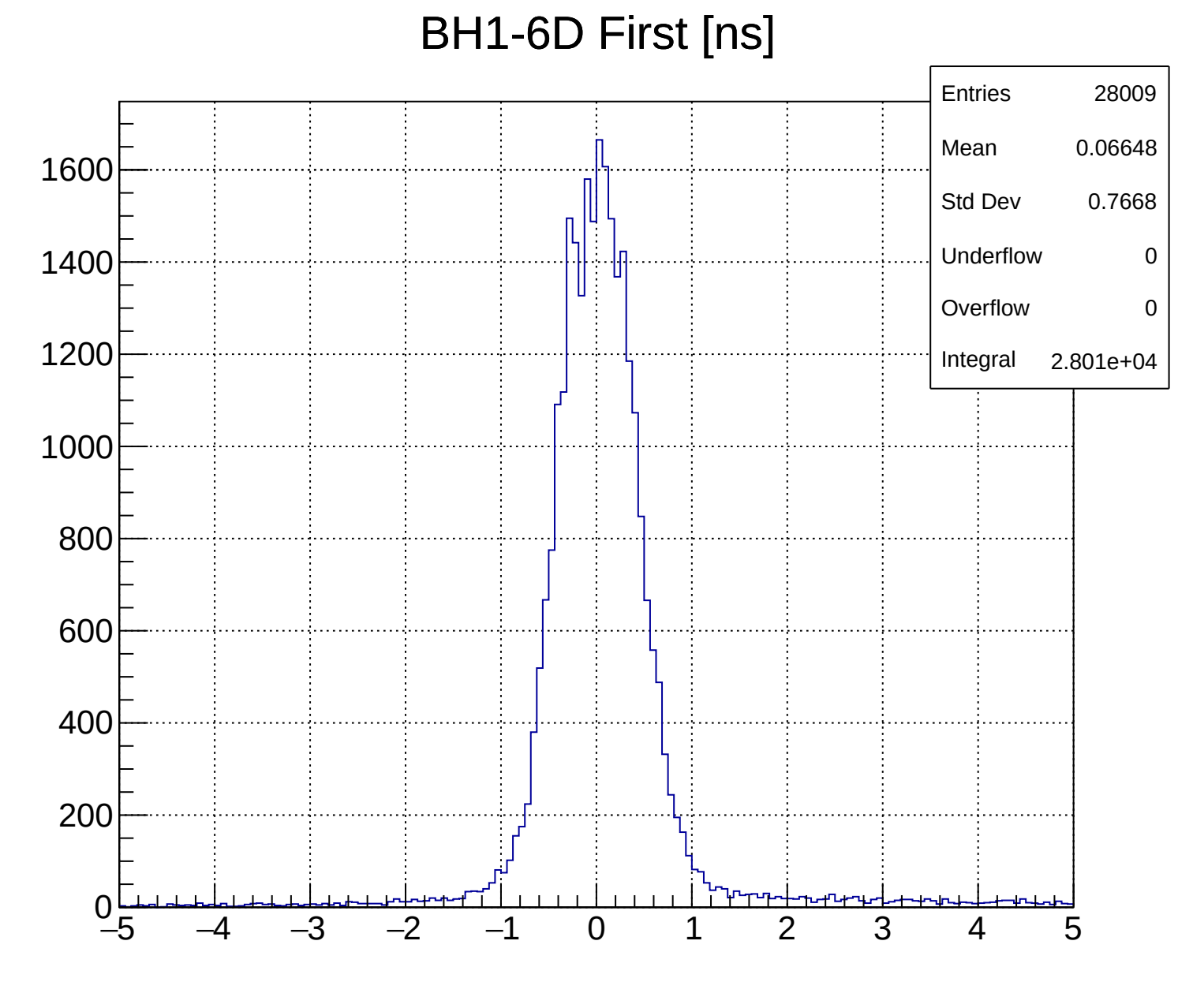
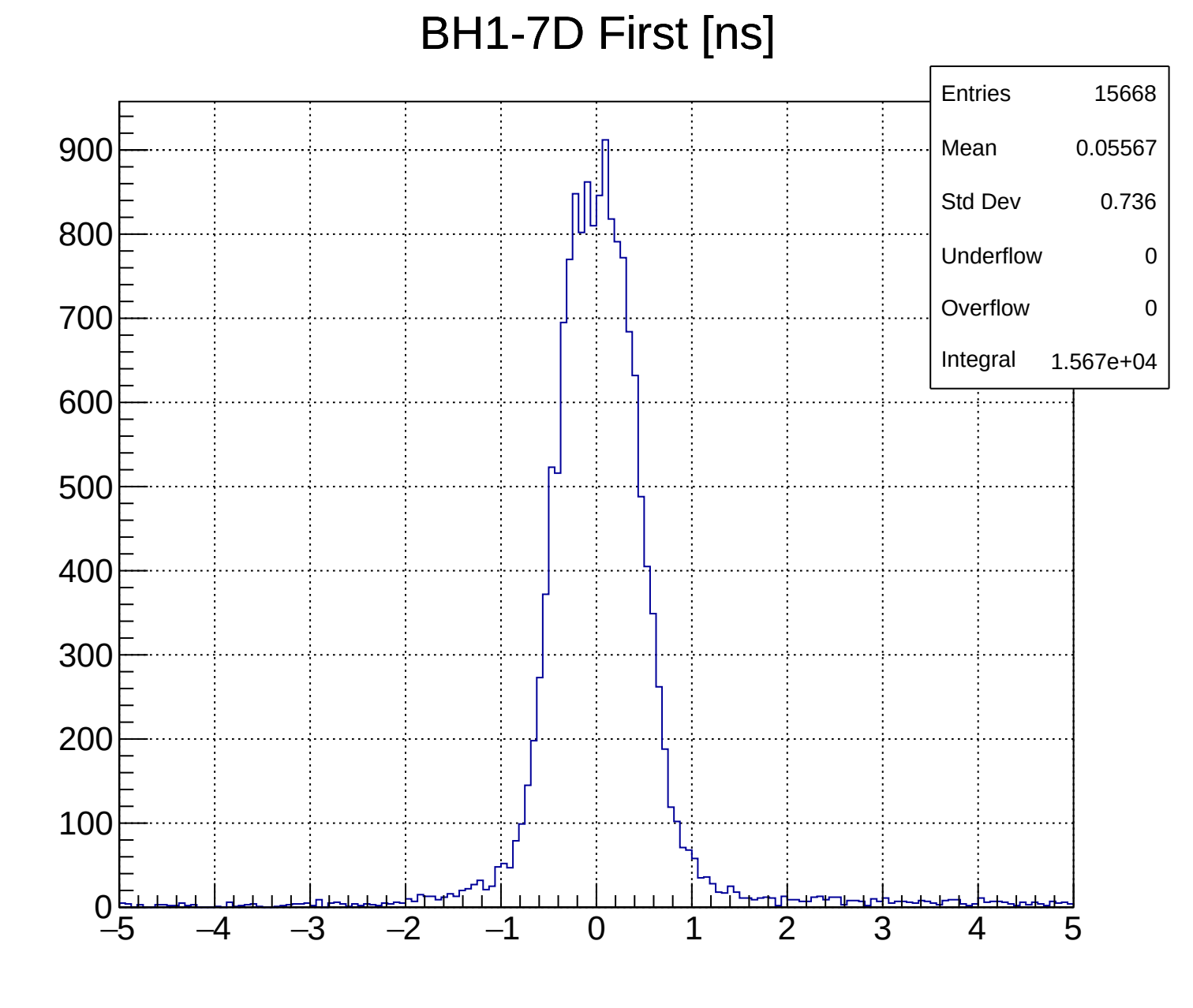

BH1-6D First [ns]
Entries 28009
Mean 0.06648
Std Dev 0.7668
Underflow 0
Overflow 0
Integral 2.801e+04
1600
1400
1200
1000
800
600
400
200
0
–5
–4
–3
–2
–1
0
1
2
3
4
5


BH1-7D First [ns]
Entries 15668
Mean 0.05567
Std Dev 0.736
Underflow 0
Overflow 0
Integral 1.567e+04
900
800
700
600
500
400
300
200
100
0
–5
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–2
–1
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2
3
4
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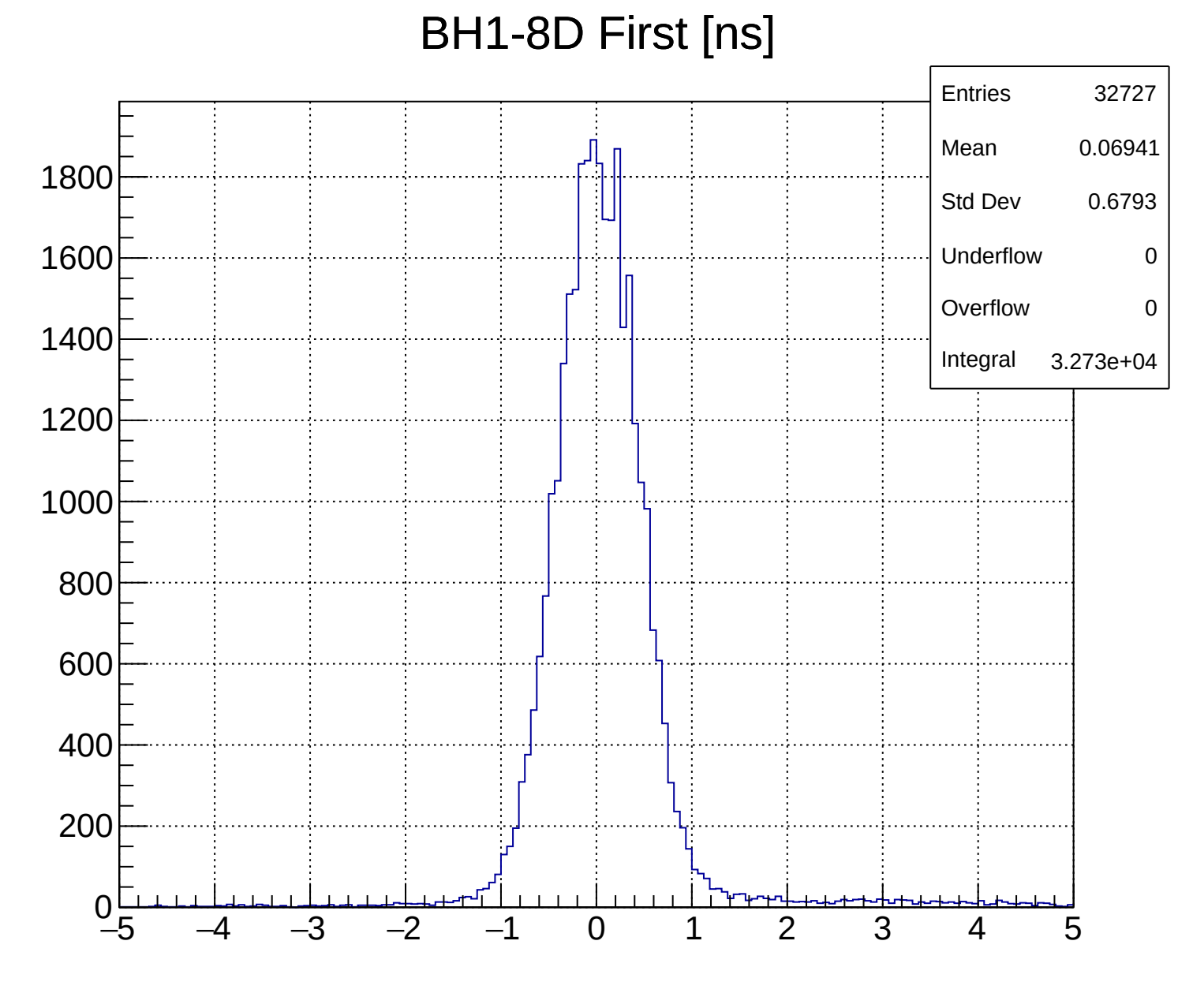
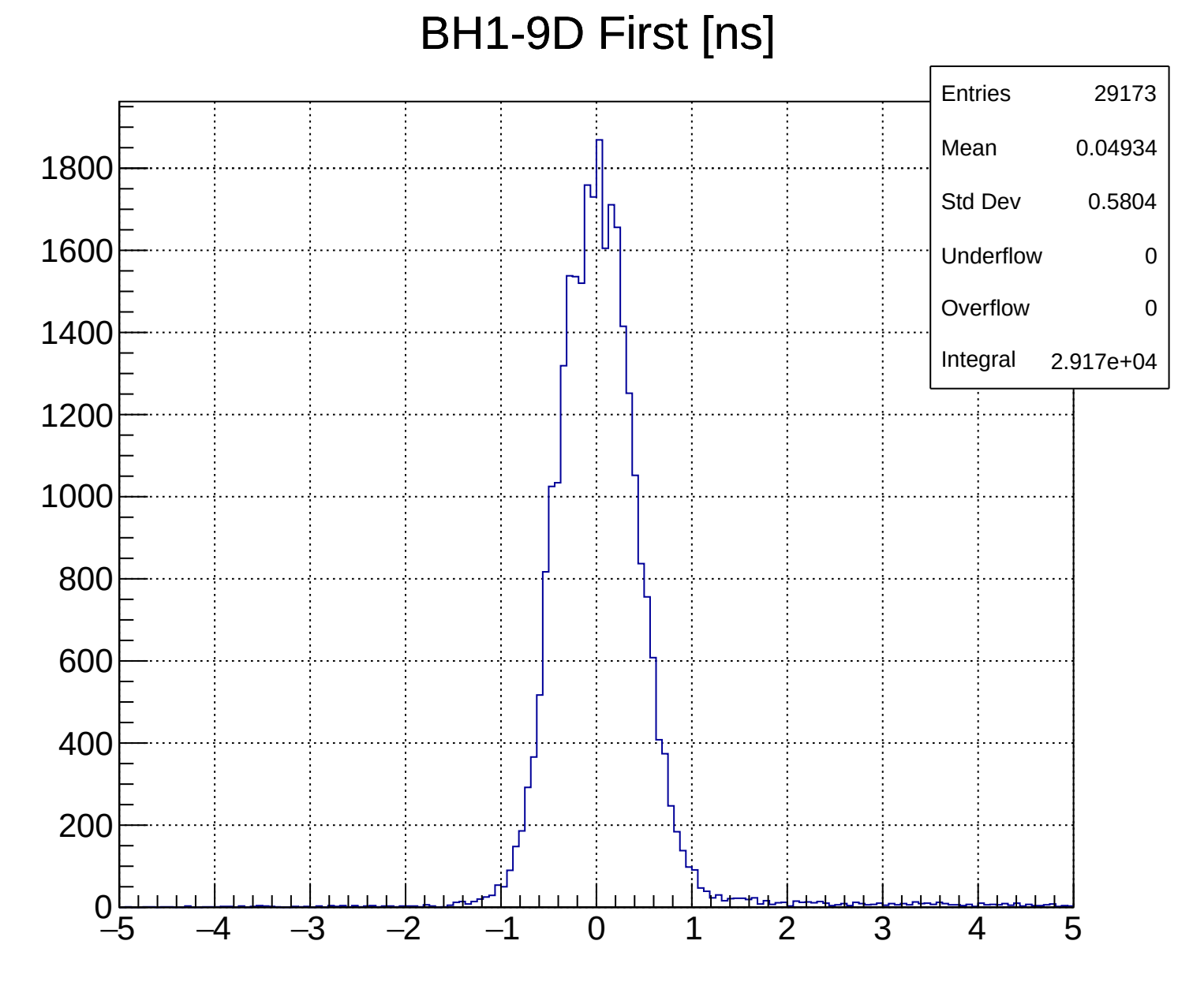
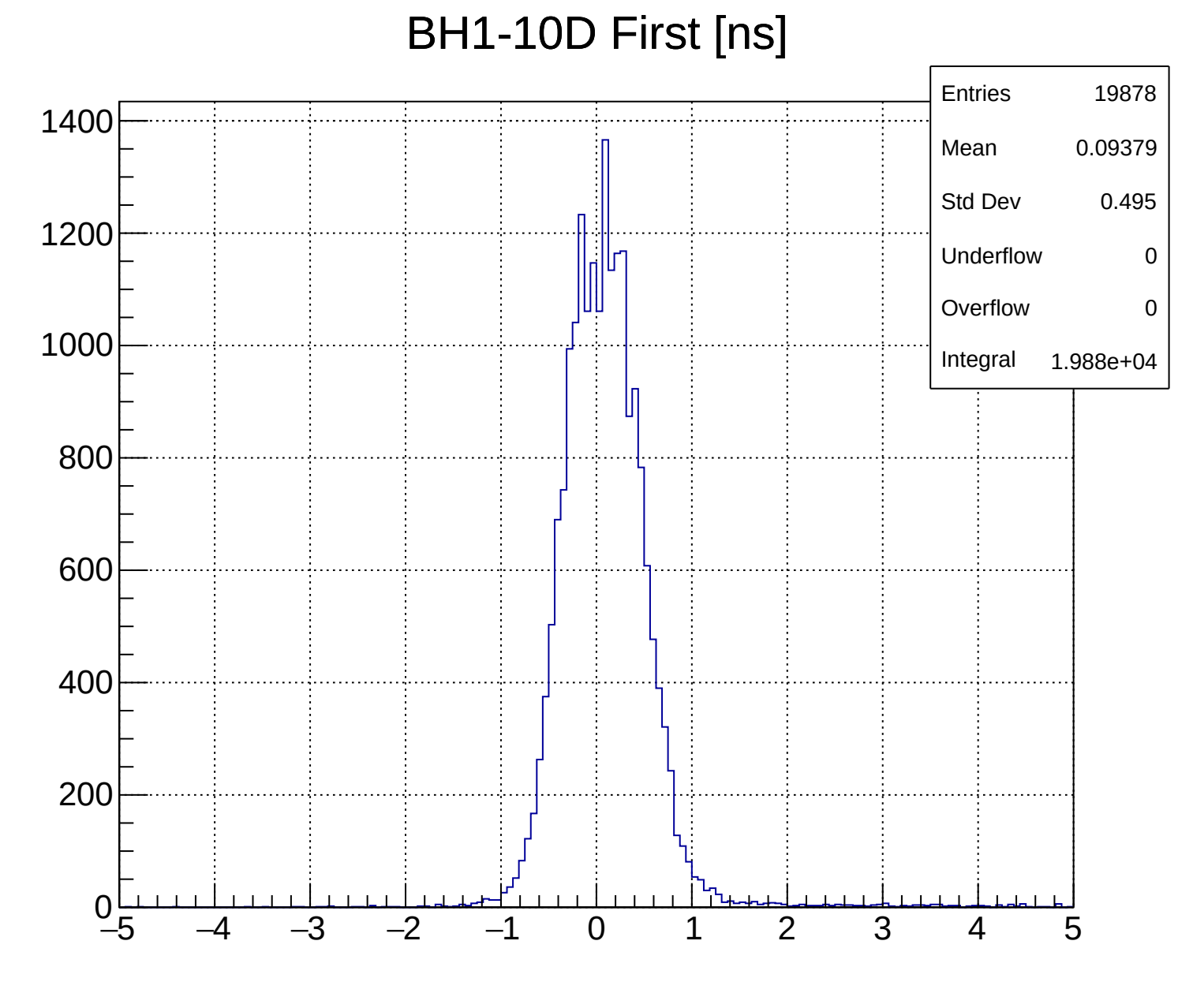
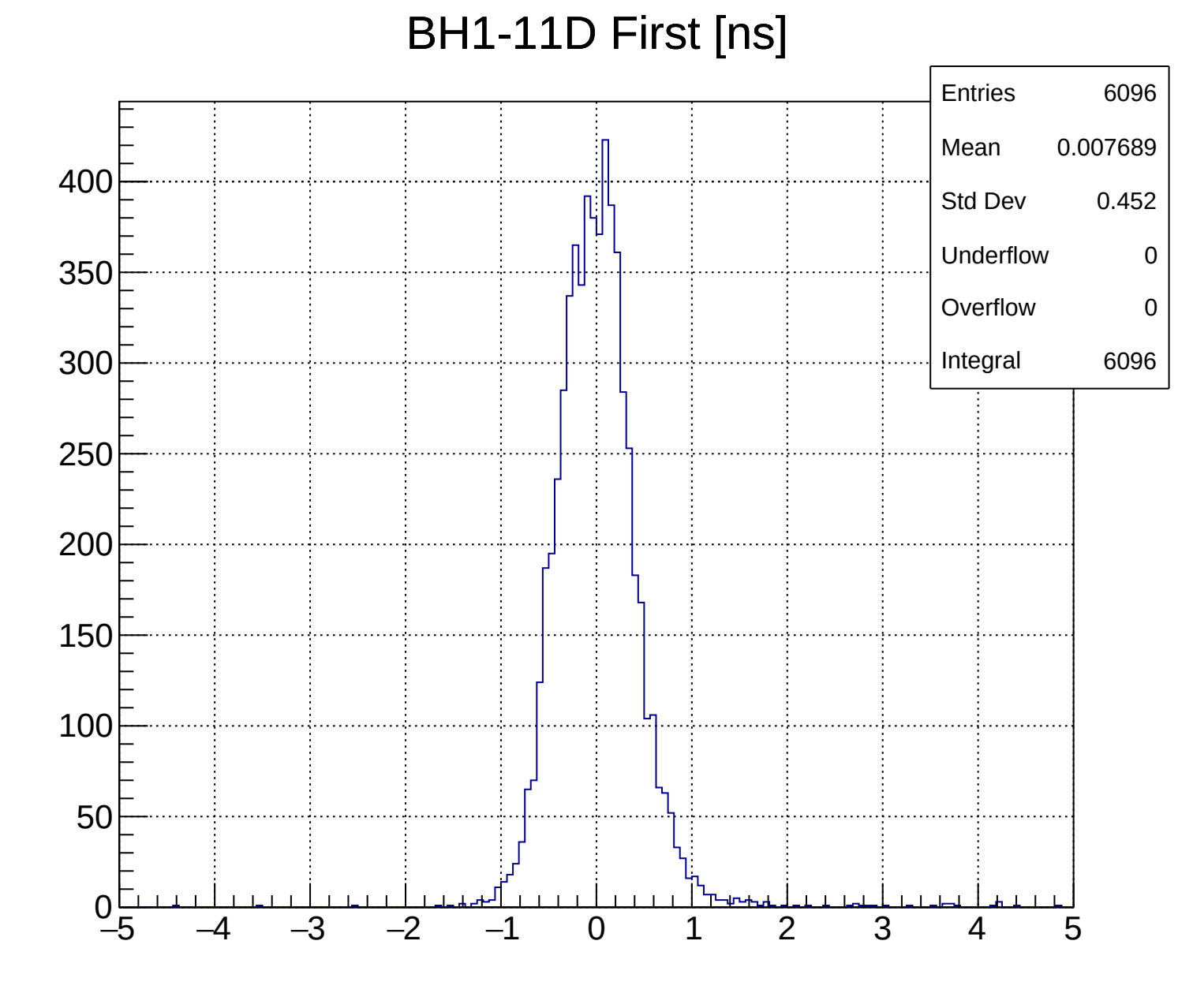
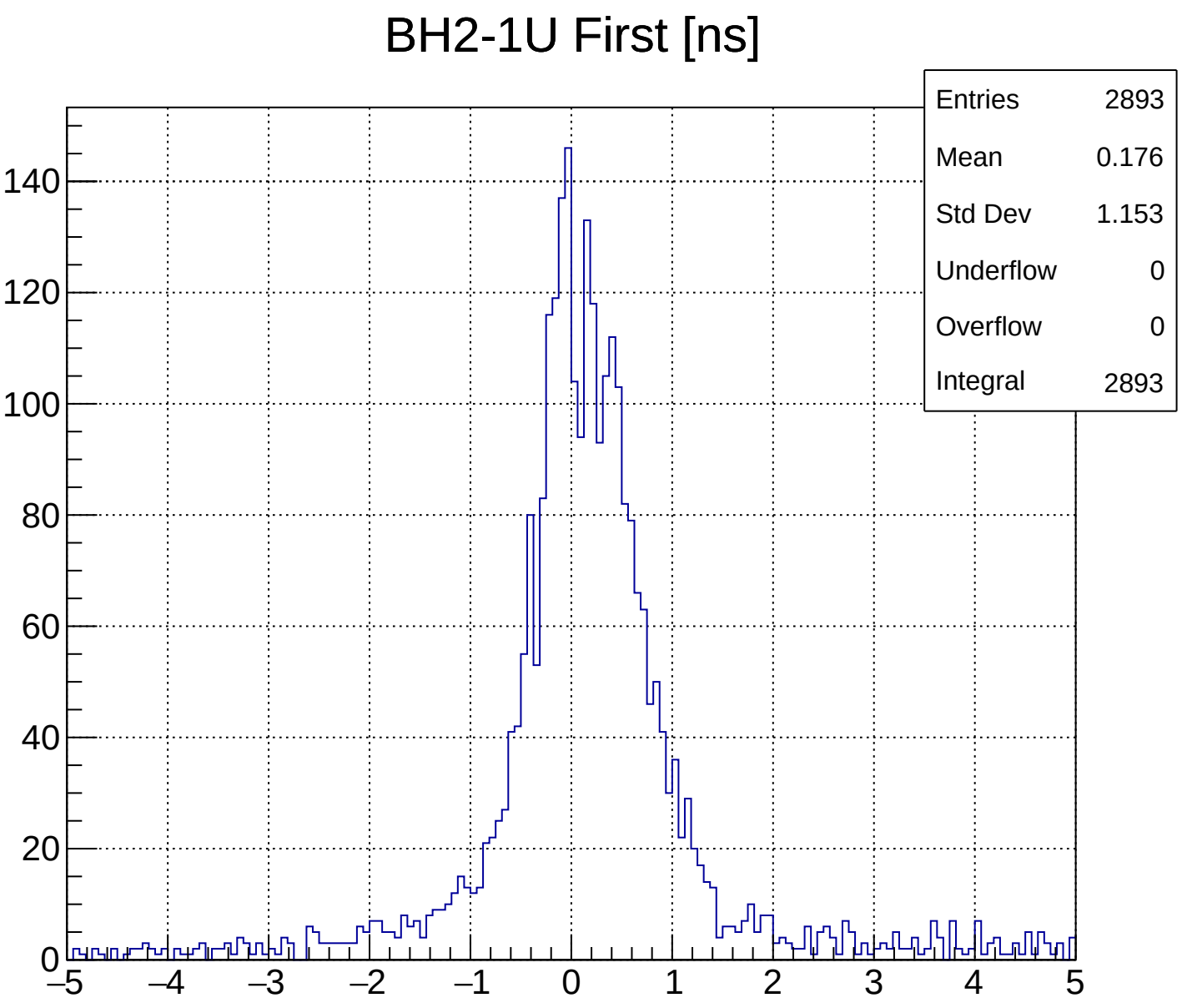
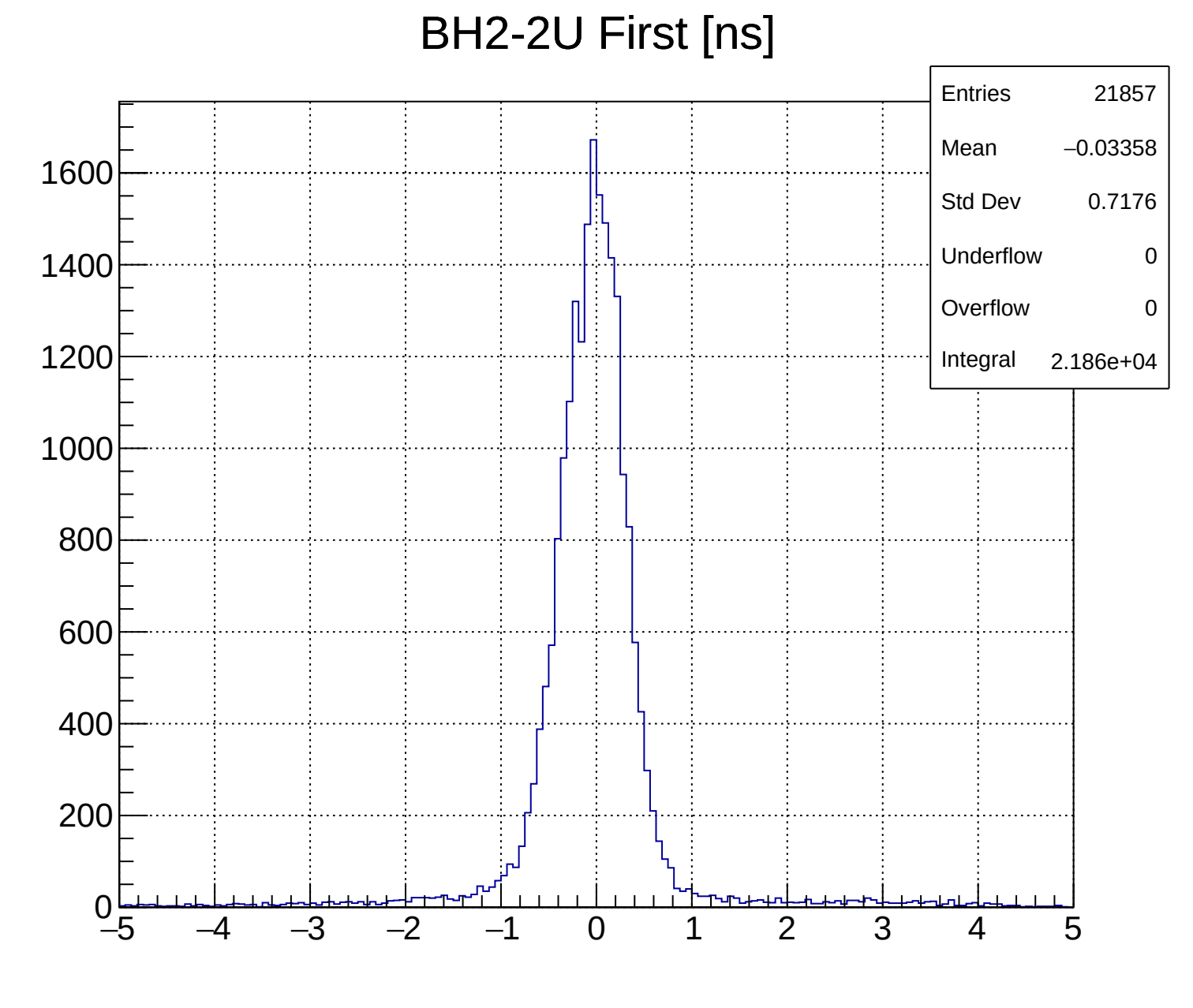

BH1-8D First [ns]
Entries 32727
Mean 0.06941
Std Dev 0.6793
Underflow 0
Overflow 0
Integral 3.273e+04
1800
1600
1400
1200
1000
800
600
400
200
0
–5
–4
–3
–2
–1
0
1
2
3
4
5

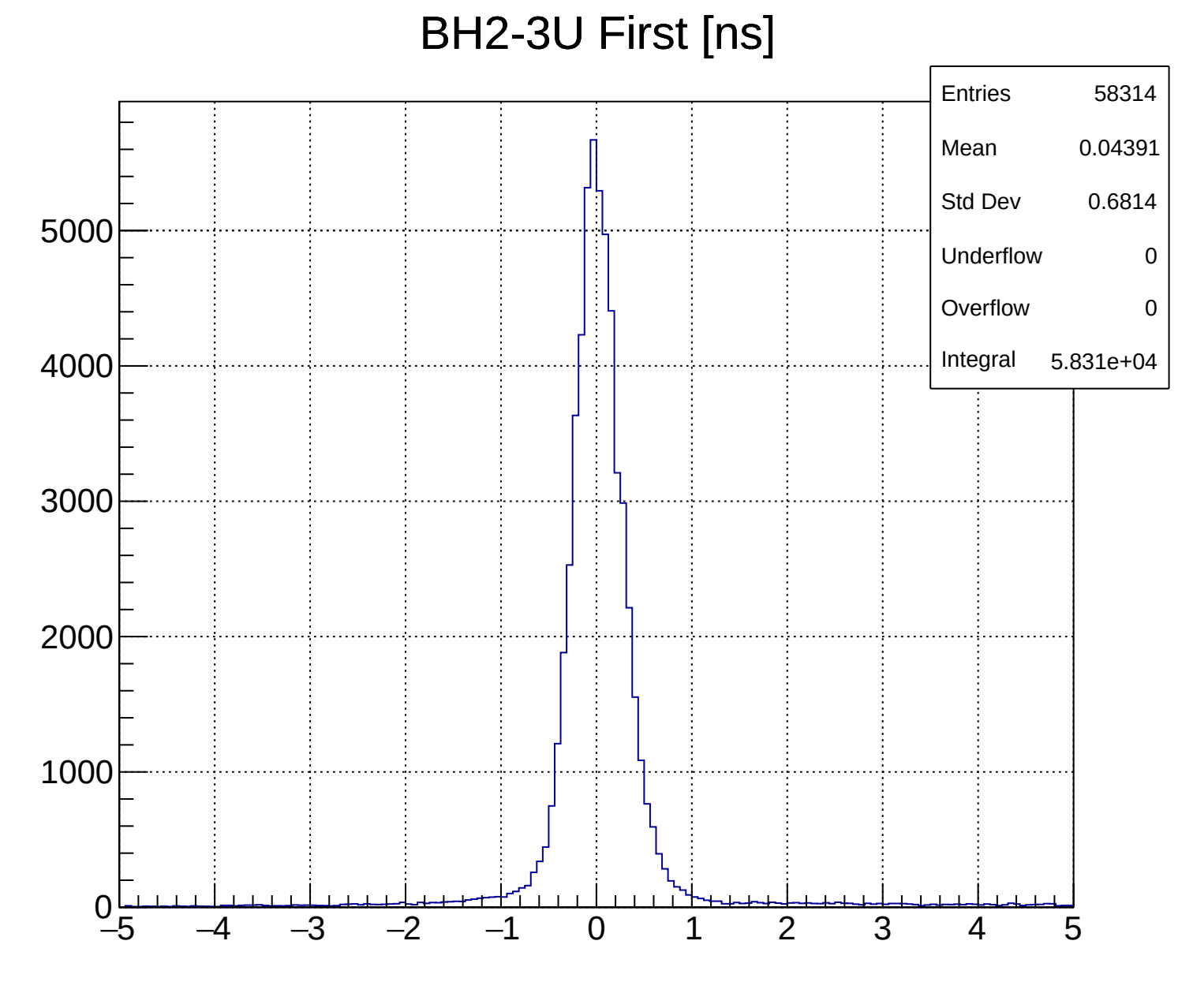

BH1-9D First [ns]
Entries 29173
Mean 0.04934
Std Dev 0.5804
Underflow 0
Overflow 0
Integral 2.917e+04
1800
1600
1400
1200
1000
800
600
400
200
0
–5
–4
–3
–2
–1
0
1
2
3
4
5

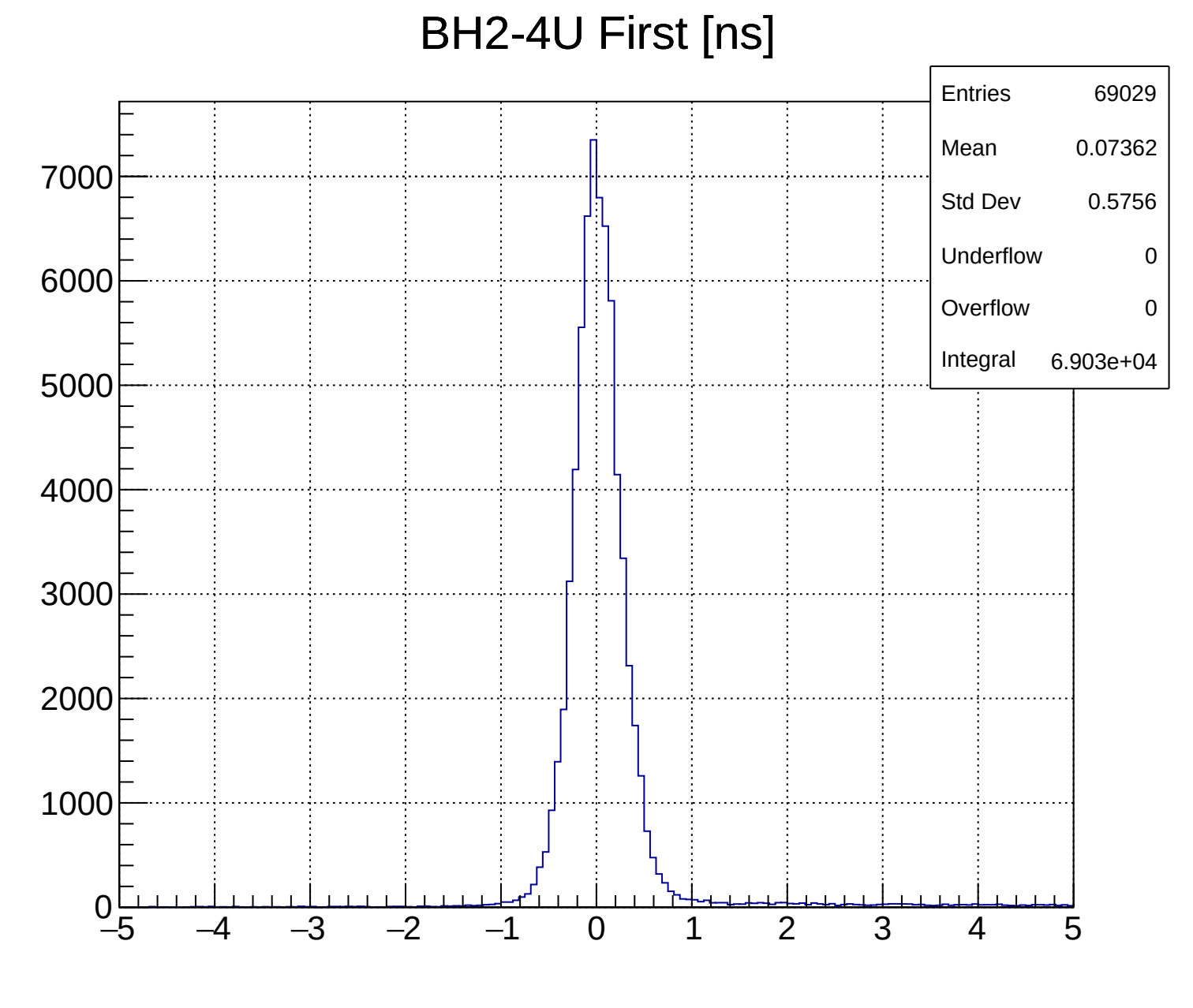

BH1-10D First [ns]
Entries 19878
Mean 0.09379
Std Dev 0.495
Underflow 0
Overflow 0
Integral 1.988e+04
1400
1200
1000
800
600
400
200
0
–5
–4
–3
–2
–1
0
1
2
3
4
5

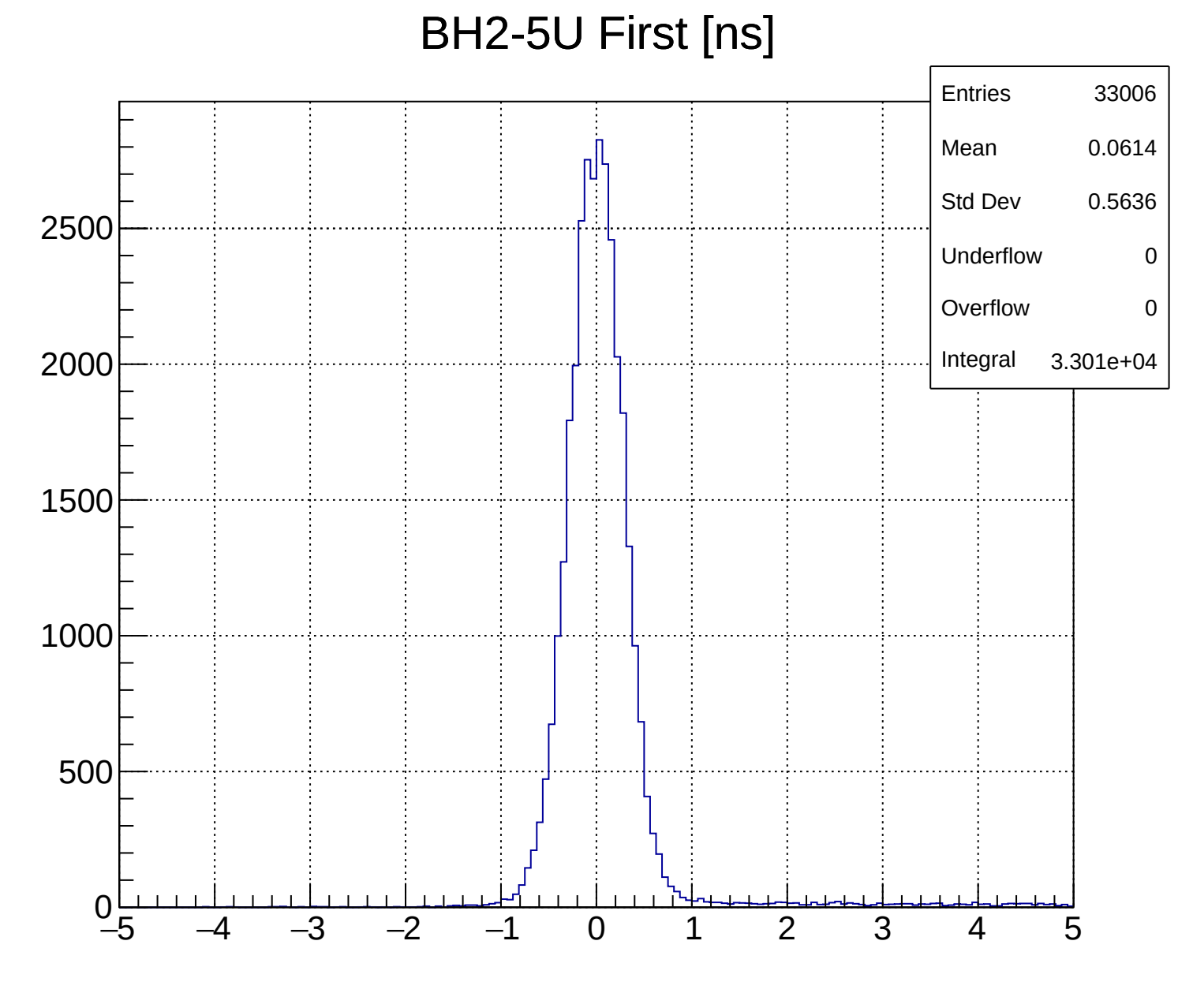

BH1-11D First [ns]
Entries 6096
Mean 0.007689
Std Dev 0.452
Underflow 0
Overflow 0
Integral 6096
400
350
300
250
200
150
100
50
0
–5
–4
–3
–2
–1
0
1
2
3
4
5

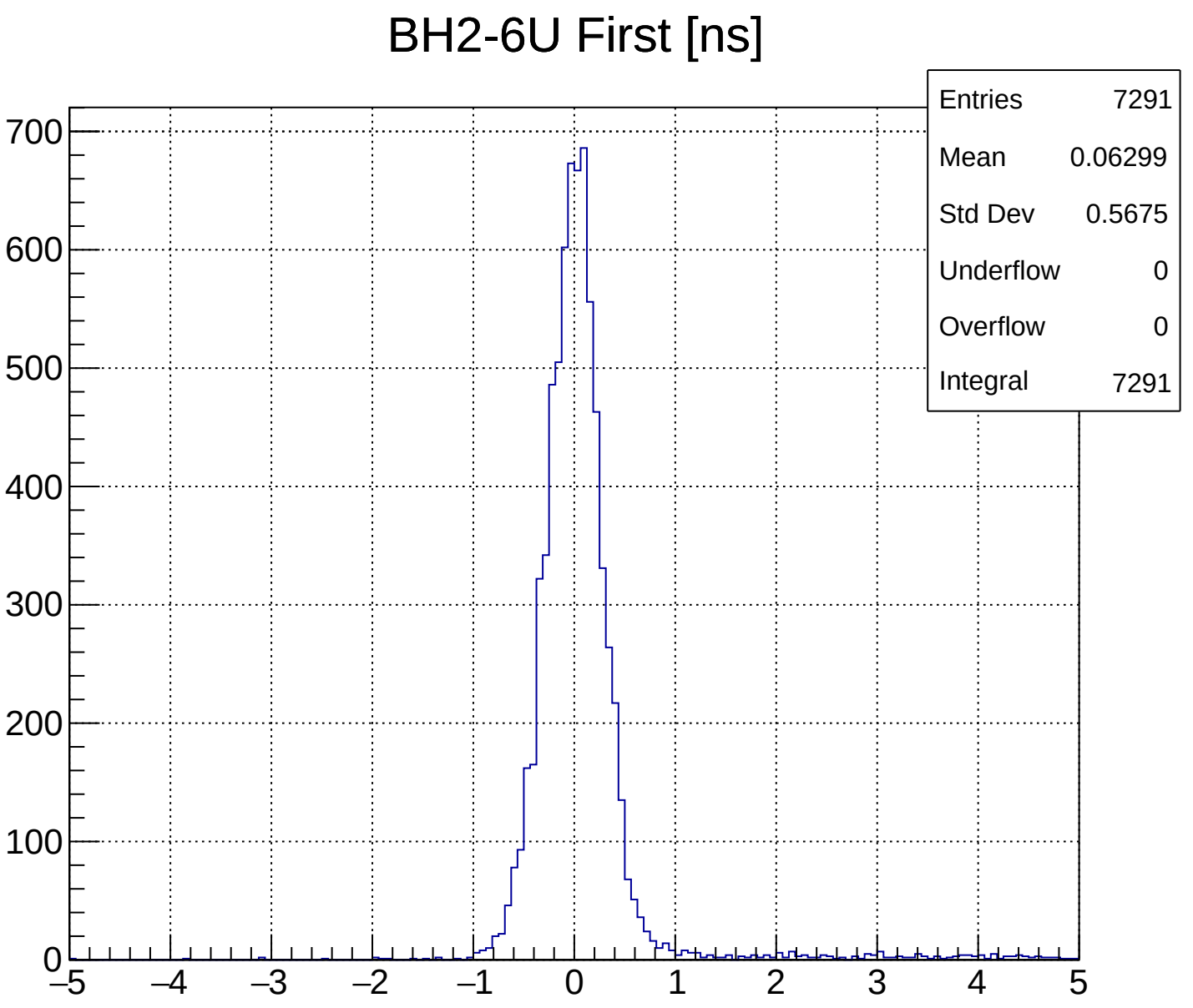

BH2-1U First [ns]
Entries 2893
Mean 0.176
Std Dev 1.153
Underflow 0
Overflow 0
Integral 2893
140
120
100
80
60
40
20
0
–5
–4
–3
–2
–1
0
1
2
3
4
5

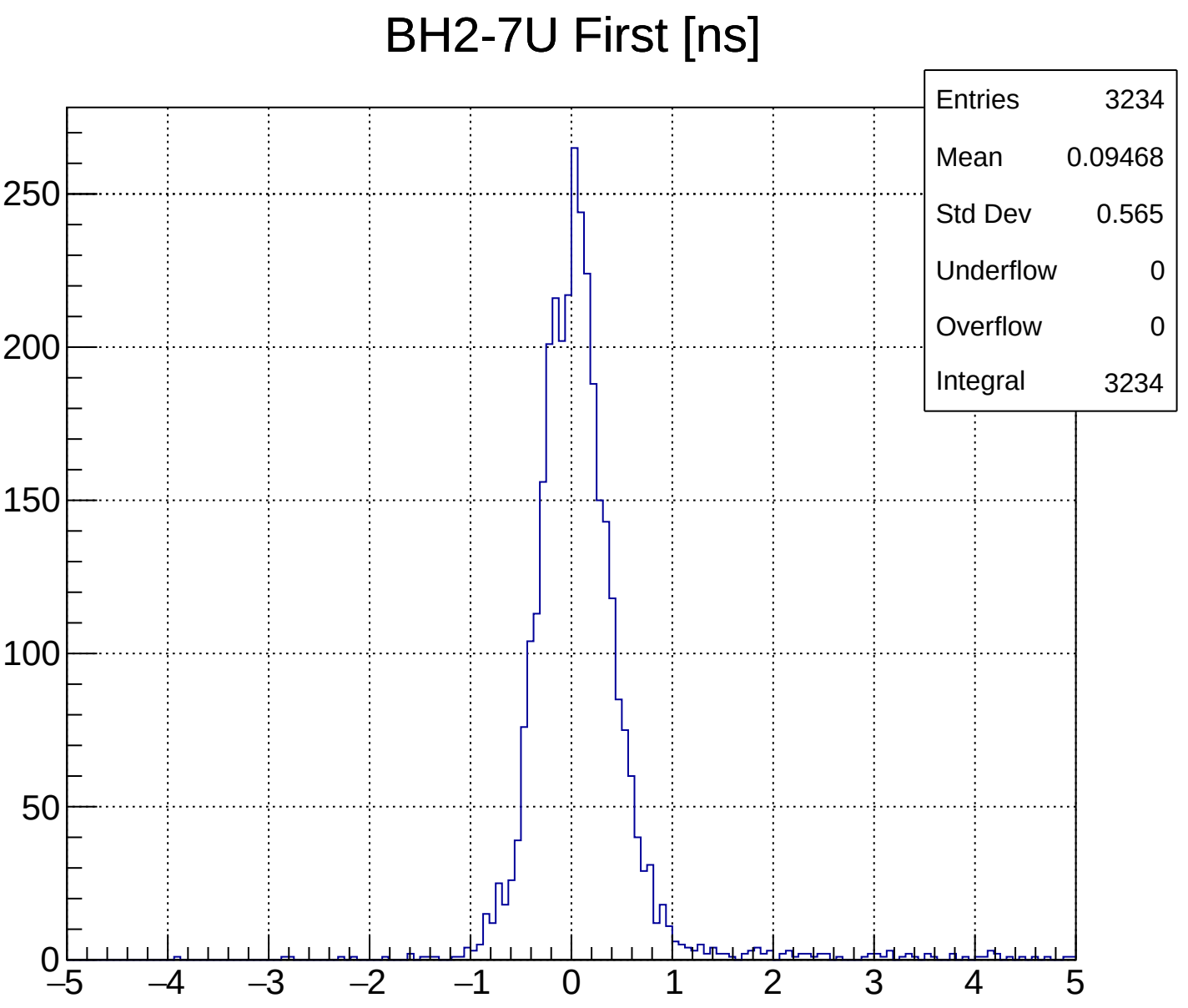

BH2-2U First [ns]
Entries 21857
Mean –0.03358
Std Dev 0.7176
Underflow 0
Overflow 0
Integral 2.186e+04
1600
1400
1200
1000
800
600
400
200
0
–5
–4
–3
–2
–1
0
1
2
3
4
5


BH2-3U First [ns]
Entries 58314
Mean 0.04391
Std Dev 0.6814
Underflow 0
Overflow 0
Integral 5.831e+04
5000
4000
3000
2000
1000
0
–5
–4
–3
–2
–1
0
1
2
3
4
5


BH2-4U First [ns]
Entries 69029
Mean 0.07362
Std Dev 0.5756
Underflow 0
Overflow 0
Integral 6.903e+04
7000
6000
5000
4000
3000
2000
1000
0
–5
–4
–3
–2
–1
0
1
2
3
4
5


BH2-5U First [ns]
Entries 33006
Mean 0.0614
Std Dev 0.5636
Underflow 0
Overflow 0
Integral 3.301e+04
2500
2000
1500
1000
500
0
–5
–4
–3
–2
–1
0
1
2
3
4
5


BH2-6U First [ns]
Entries 7291
Mean 0.06299
Std Dev 0.5675
Underflow 0
Overflow 0
Integral 7291
700
600
500
400
300
200
100
0
–5
–4
–3
–2
–1
0
1
2
3
4
5


BH2-7U First [ns]
Entries 3234
Mean 0.09468
Std Dev 0.565
Underflow 0
Overflow 0
Integral 3234
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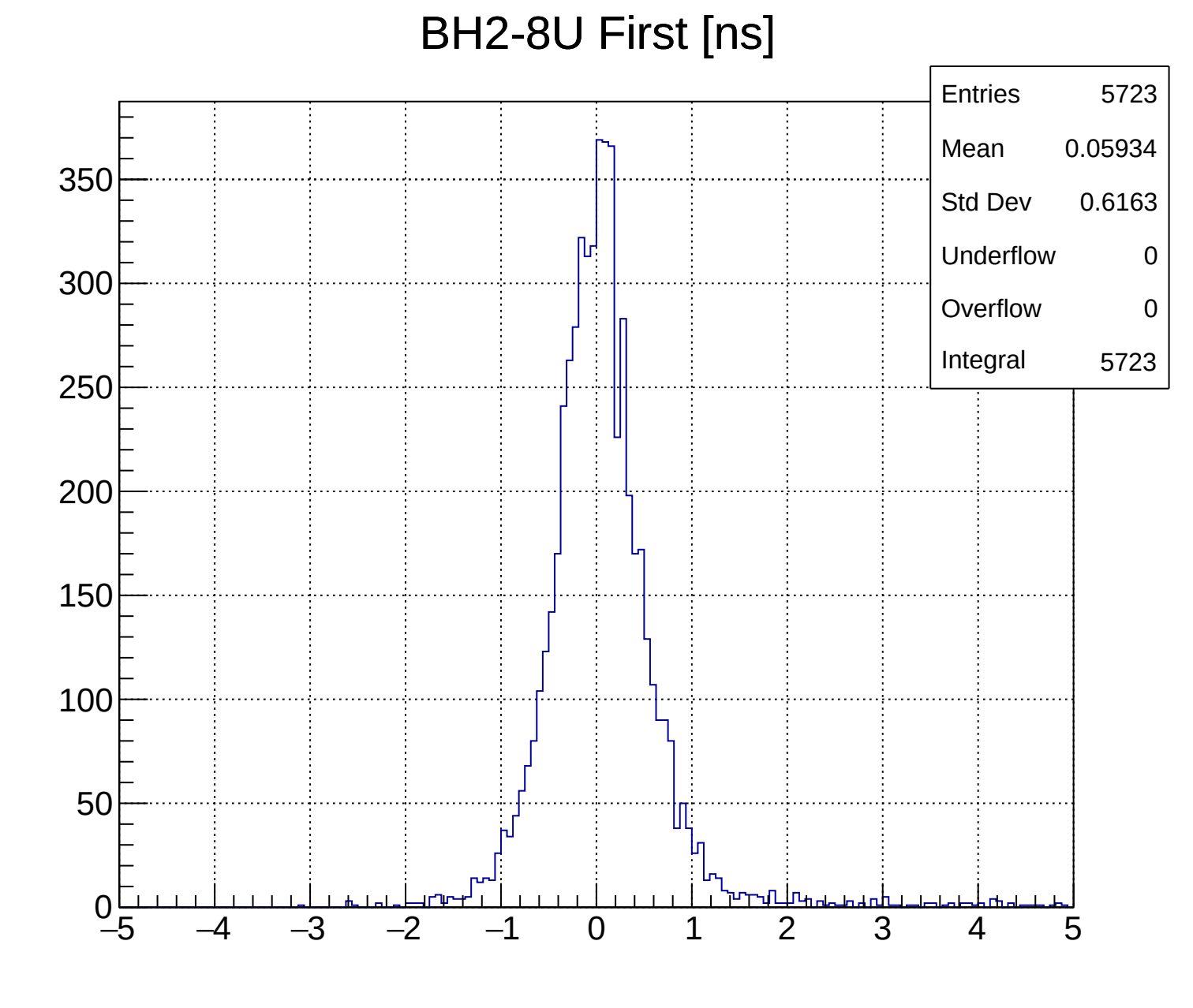
200
150
100
50
0
–5
–4
–3
–2
–1
0
1
2
3
4
5


BH2-8U First [ns]
Entries 5723
Mean 0.05934
Std Dev 0.6163
Underflow 0
Overflow 0
Integral 5723
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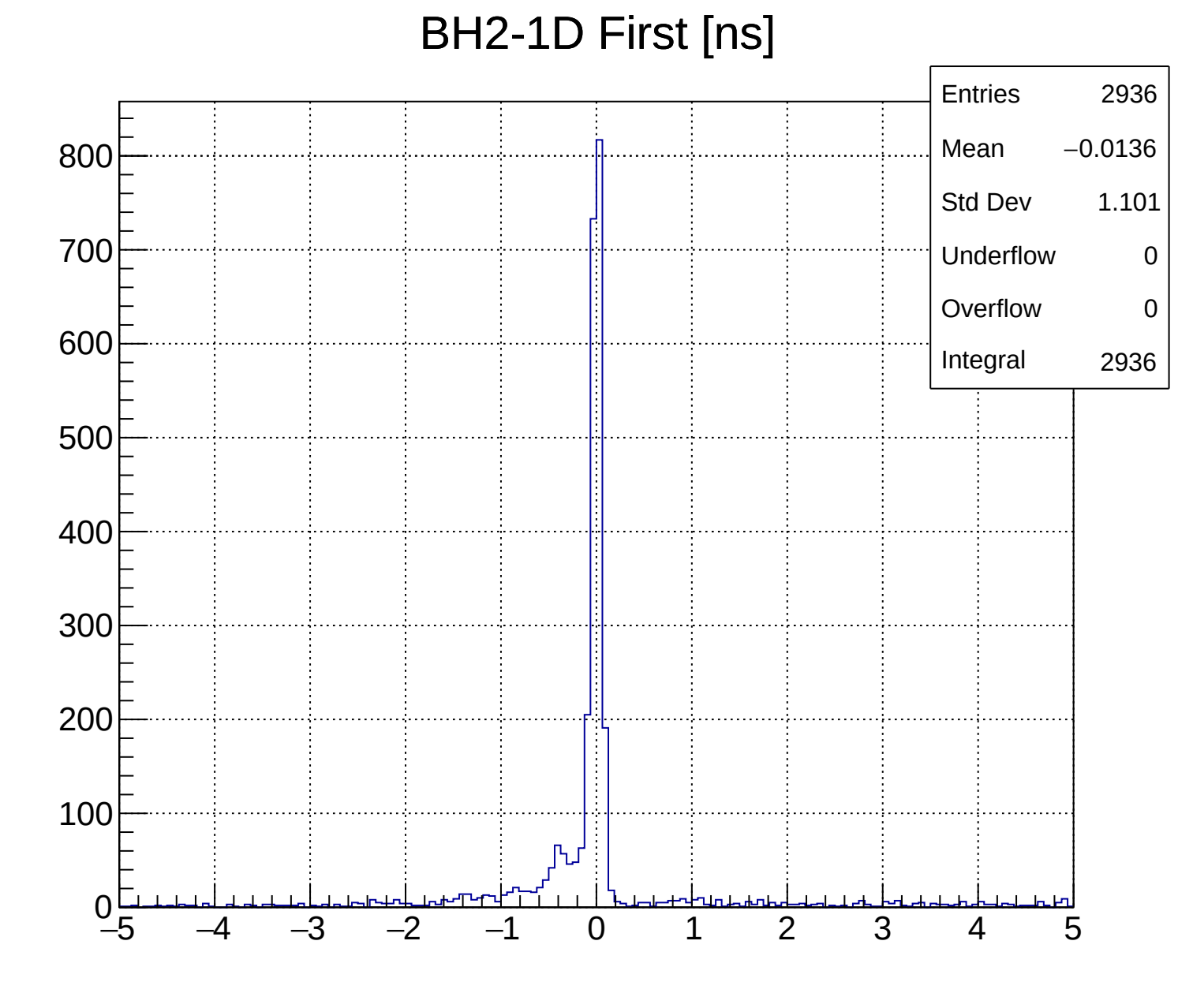
250
200
150
100
50
0
–5
–4
–3
–2
–1
0
1
2
3
4
5


BH2-1D First [ns]
Entries 2936
Mean −0.0136
Std Dev 1.101
Underflow 0
Overflow 0
Integral 2936
800
700
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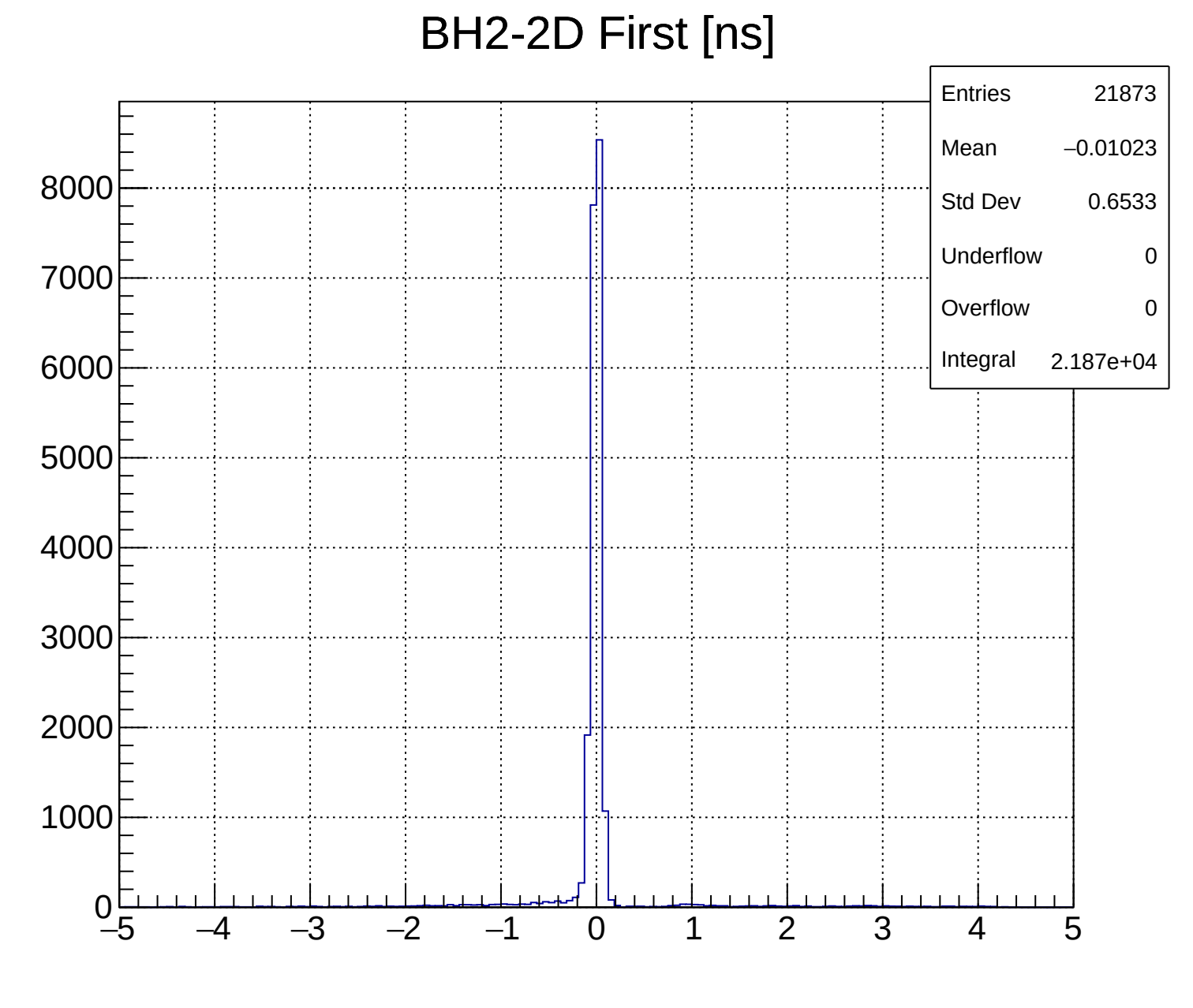
500
400
300
200
100
0
−5
−4
−3
−2
−1
0
1
2
3
4
5


BH2-2D First [ns]
Entries 21873
Mean –0.01023
Std Dev 0.6533
Underflow 0
Overflow 0
Integral 2.187e+04
8000
7000
6000
5000
4000
3000
2000
1000
0
–5
–4
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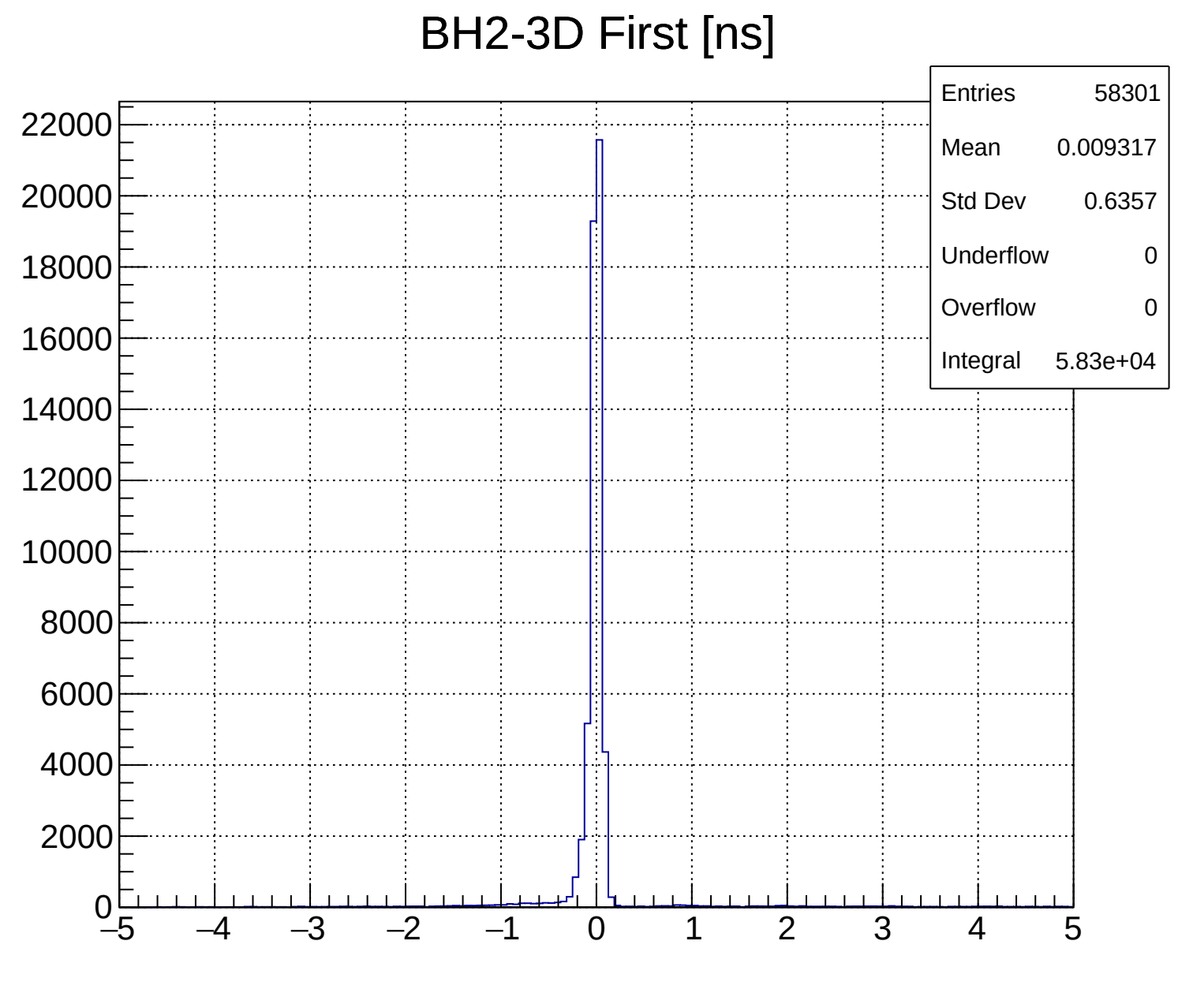
–2
–1
0
1
2
3
4
5


BH2-3D First [ns]
Entries 58301
Mean 0.009317
Std Dev 0.6357
Underflow 0
Overflow 0
Integral 5.83e+04
22000
20000
18000
16000
14000
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10000
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6000
4000
2000
0
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4
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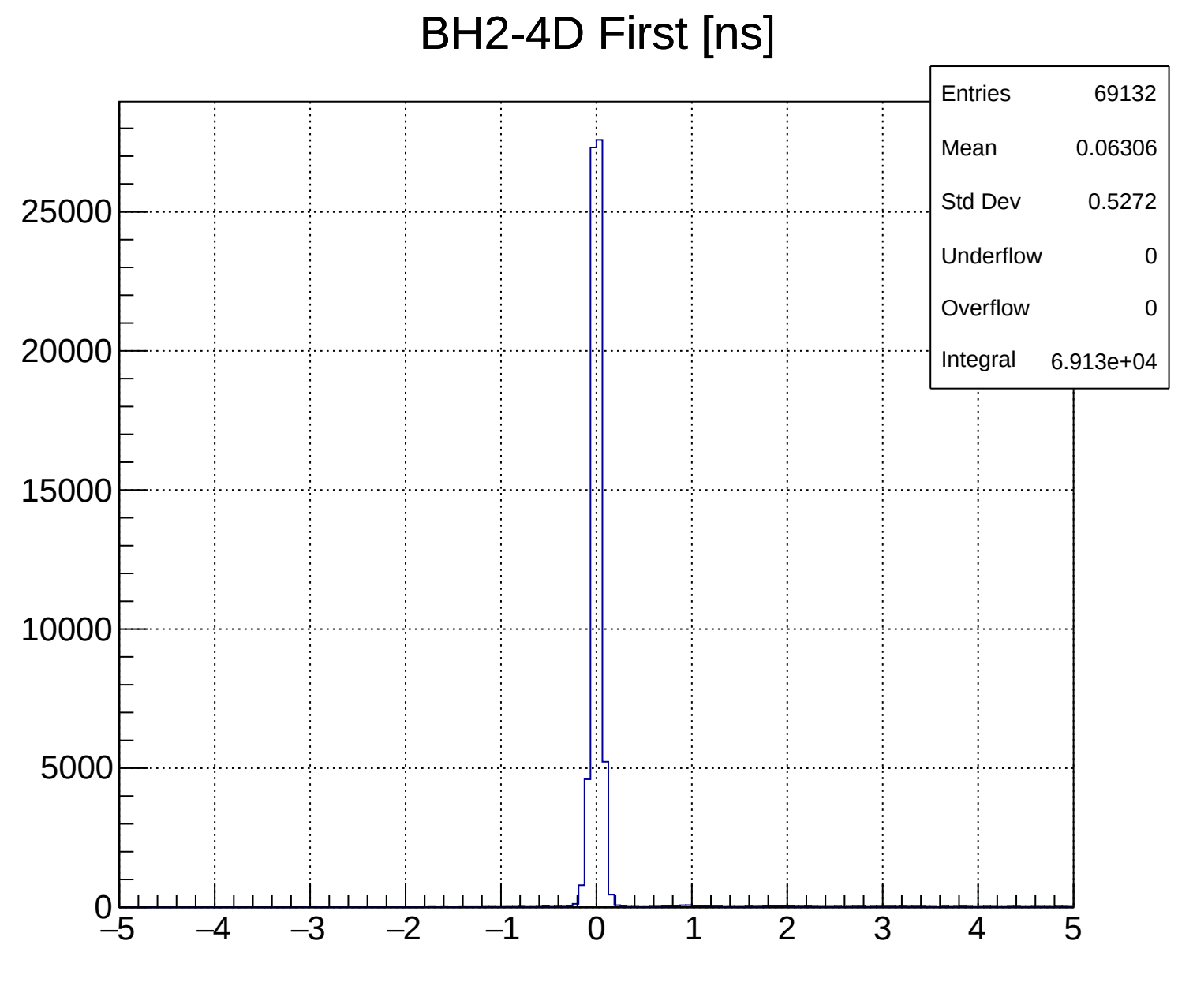
BH2-4D First [ns]
Entries 69132
Mean 0.06306
Std Dev 0.5272
Underflow 0
Overflow 0
Integral 6.913e+04
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20000
15000
10000
5000
0
–5
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2
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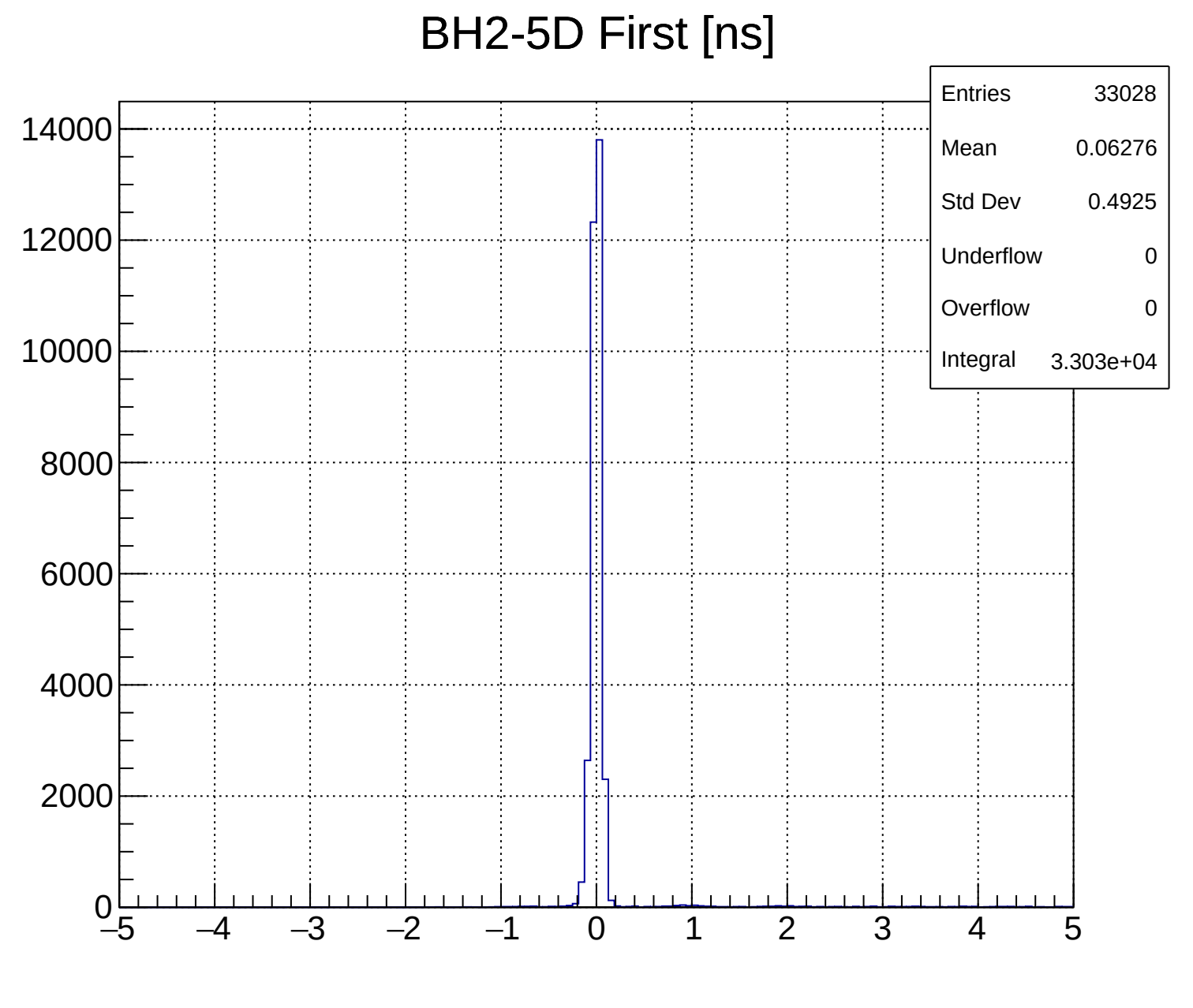
4
5


BH2-5D First [ns]
Entries 33028
Mean 0.06276
Std Dev 0.4925
Underflow 0
Overflow 0
Integral 3.303e+04
14000
12000
10000
8000
6000
4000
2000
0
–5
–4
–3
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2
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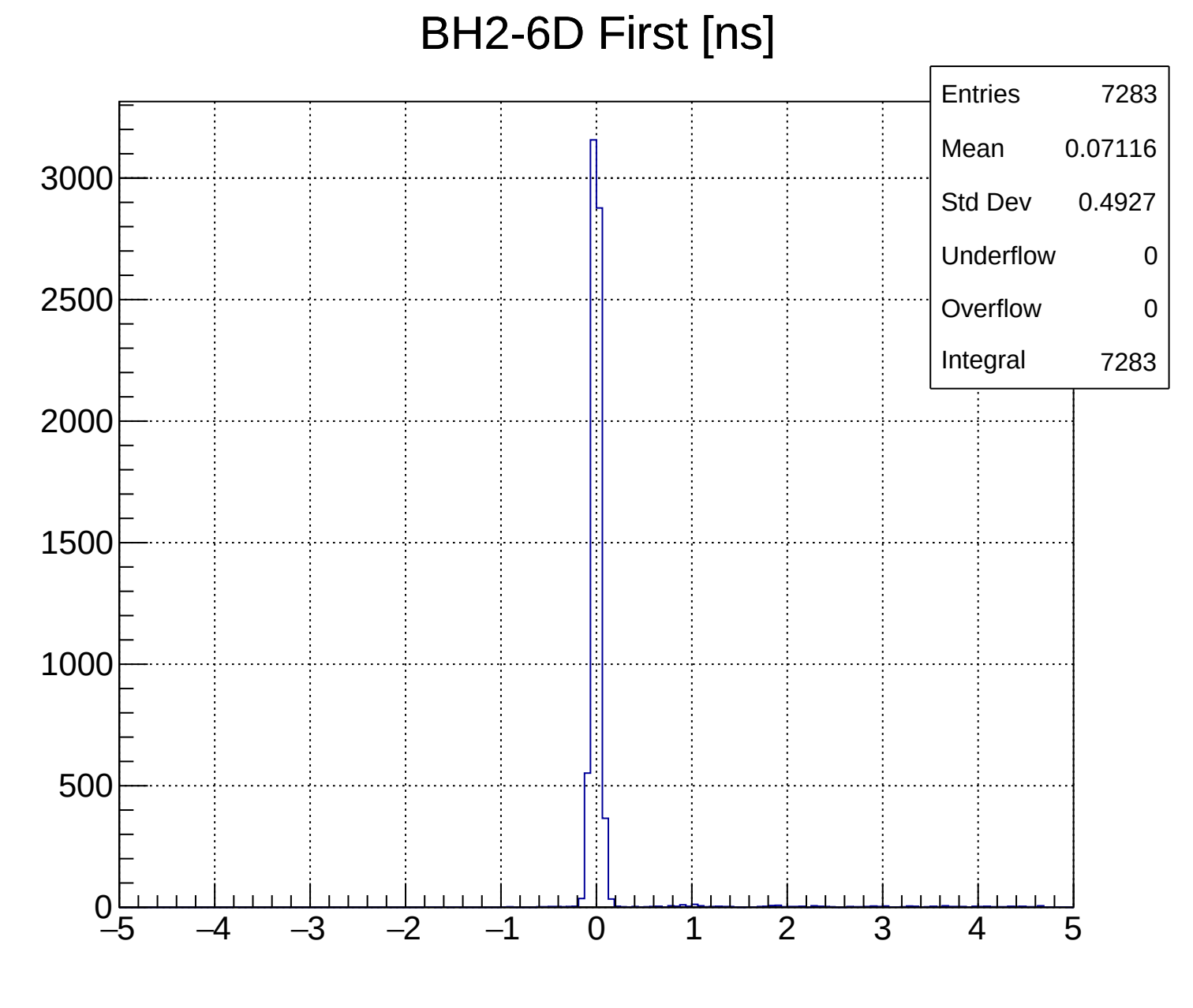
4
5


BH2-6D First [ns]
Entries 7283
Mean 0.07116
Std Dev 0.4927
Underflow 0
Overflow 0
Integral 7283
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1500
1000
500
0
–5
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–3
–2
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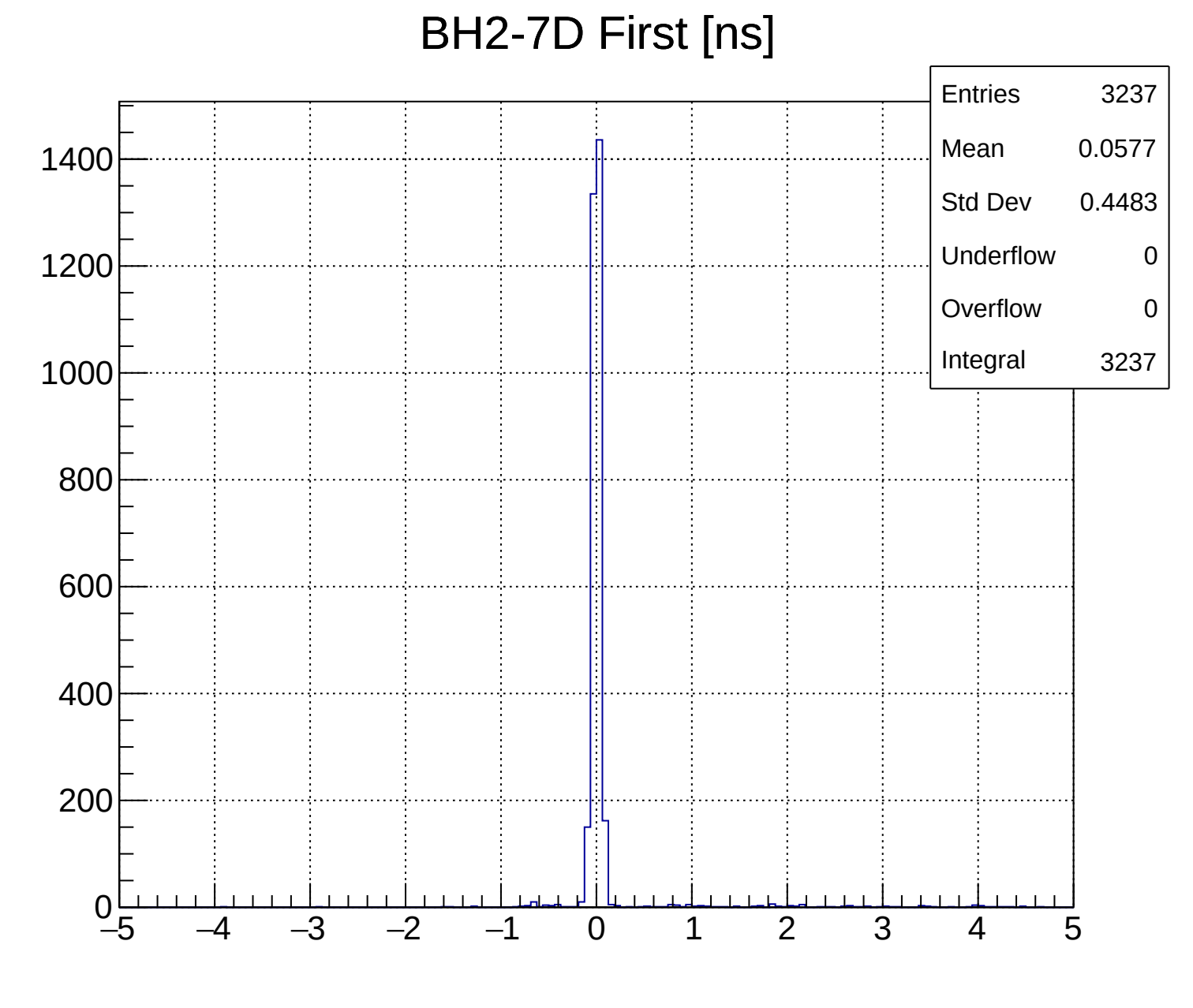
2
3
4
5


BH2-7D First [ns]
Entries 3237
Mean 0.0577
Std Dev 0.4483
Underflow 0
Overflow 0
Integral 3237
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1200
1000
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600
400
200
0
–5
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–3
–2
–1
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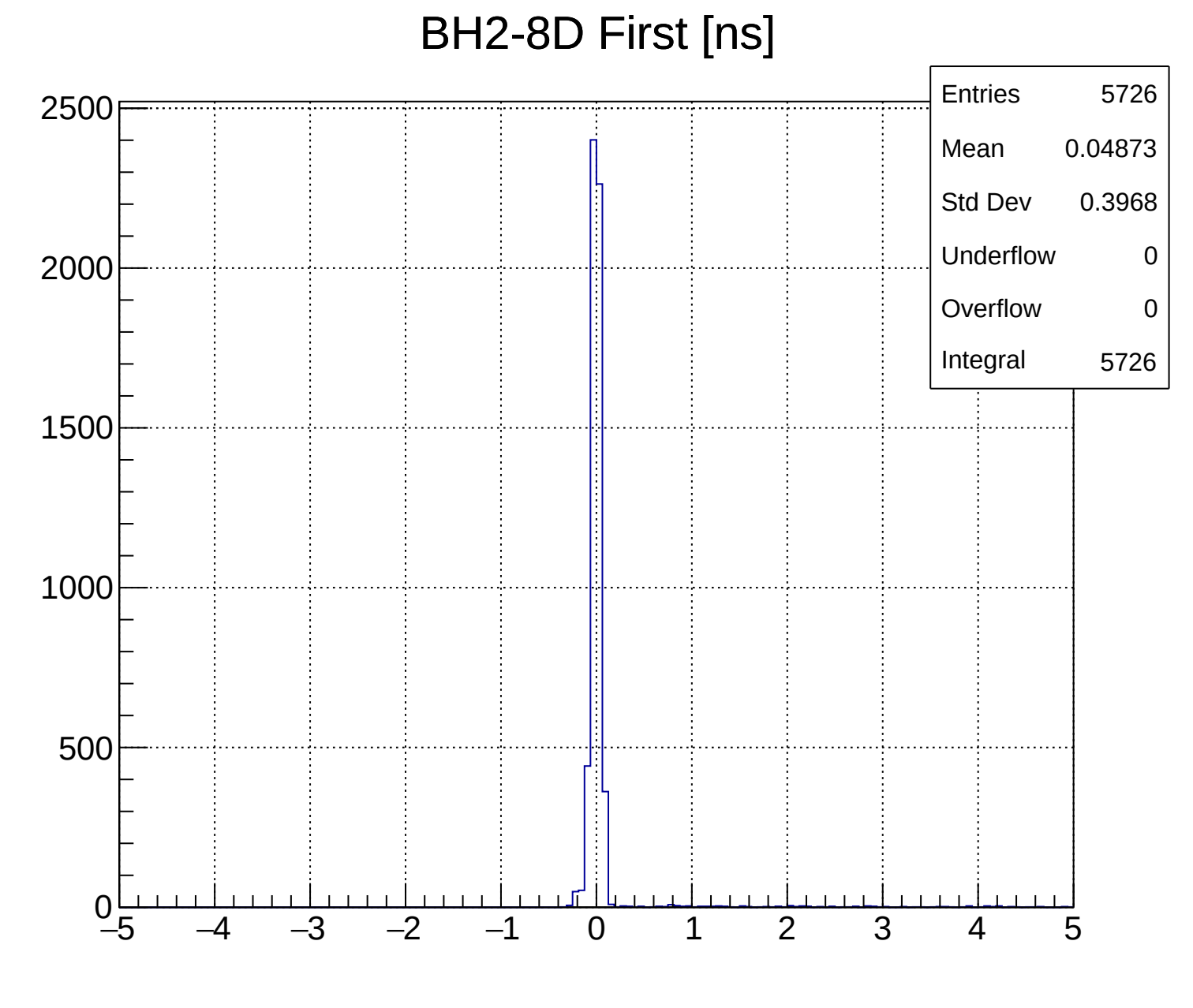
2
3
4
5


BH2-8D First [ns]
Entries 5726
Mean 0.04873
Std Dev 0.3968
Underflow 0
Overflow 0
Integral 5726
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2000
1500
1000
500
0
–5
–4
–3
–2
–1
0
1
2
3
4
5