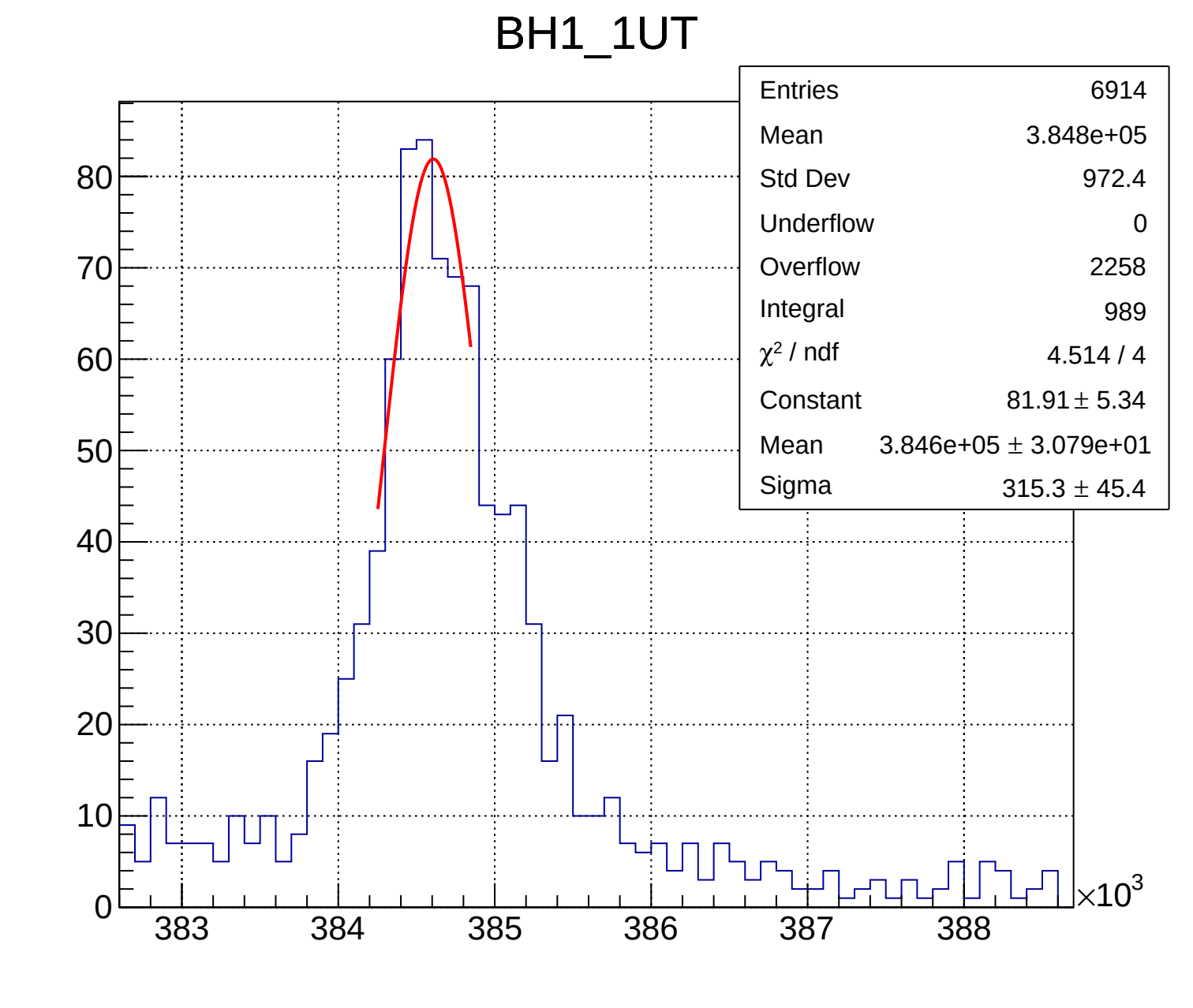
BH1_1UT
Entries 6914
Mean 3.848e+05
Std Dev 972.4
Underflow 0
Overflow 2258
Integral 989
χ² / ndf 4.514 / 4
Constant 81.91 ± 5.34
Mean 3.846e+05 ± 3.079e+01
Sigma 315.3 ± 45.4
0
10
20
30
40
50
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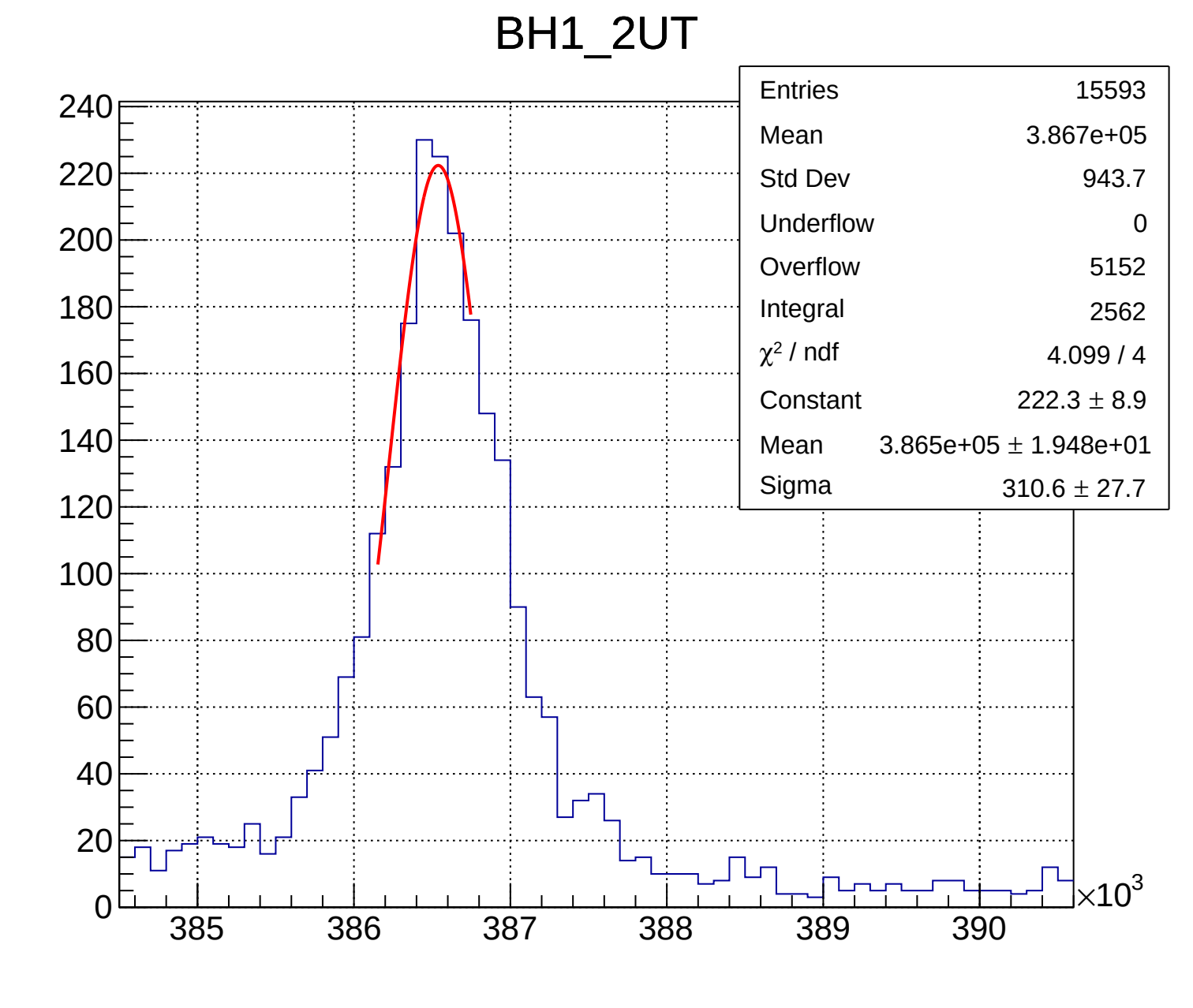
70
80
383
384
385
386
387
388
×10³


BH1_2UT
Entries 15593
Mean 3.867e+05
Std Dev 943.7
Underflow 0
Overflow 5152
Integral 2562
χ² / ndf 4.099 / 4
Constant 222.3 ± 8.9
Mean 3.865e+05 ± 1.948e+01
Sigma 310.6 ± 27.7
240
220
200
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160
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120
100
80
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40
20
0
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386
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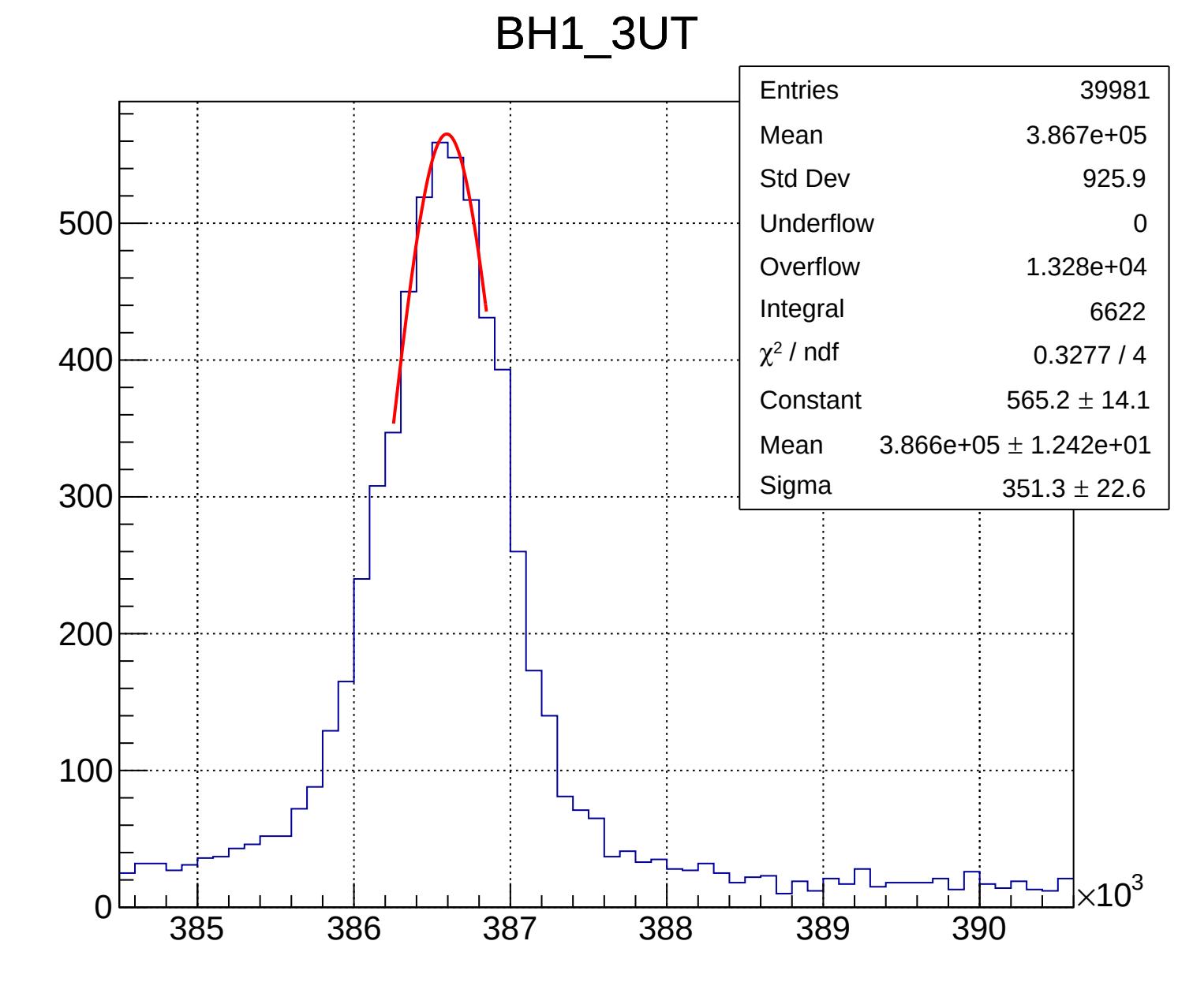
389
390
×10³


BH1_3UT
Entries 39981
Mean 3.867e+05
Std Dev 925.9
Underflow 0
Overflow 1.328e+04
Integral 6622
χ² / ndf 0.3277 / 4
Constant 565.2 ± 14.1
Mean 3.866e+05 ± 1.242e+01
Sigma 351.3 ± 22.6
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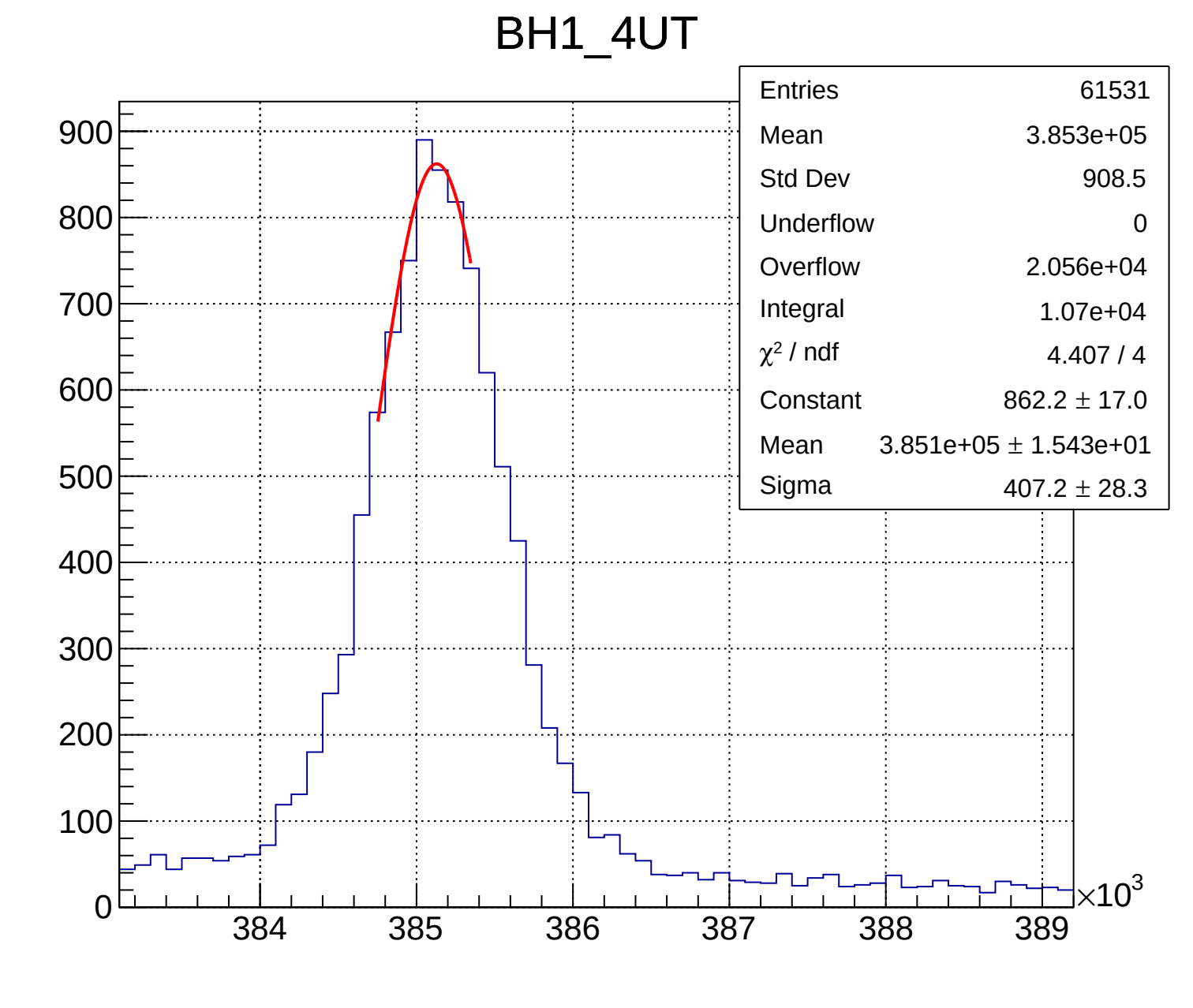
200
100
0
385
386
387
388
389
390
×10³


BH1_4UT
Entries 61531
Mean 3.853e+05
Std Dev 908.5
Underflow 0
Overflow 2.056e+04
Integral 1.07e+04
χ² / ndf 4.407 / 4
Constant 862.2 ± 17.0
Mean 3.851e+05 ± 1.543e+01
Sigma 407.2 ± 28.3
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700
600
500
400
300
200
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0
384
385
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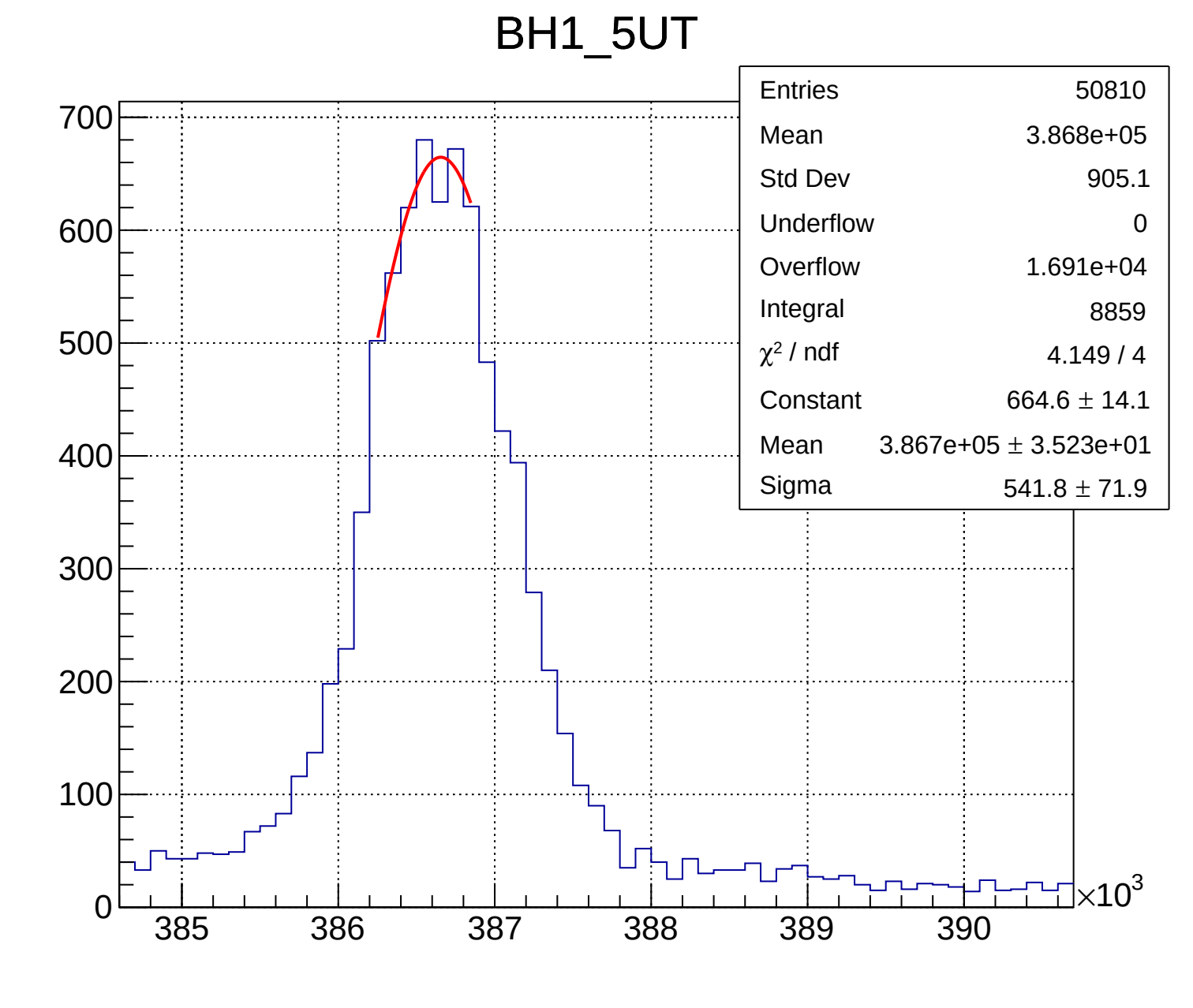
389
×10³


BH1_5UT
Entries 50810
Mean 3.868e+05
Std Dev 905.1
Underflow 0
Overflow 1.691e+04
Integral 8859
χ² / ndf 4.149 / 4
Constant 664.6 ± 14.1
Mean 3.867e+05 ± 3.523e+01
Sigma 541.8 ± 71.9
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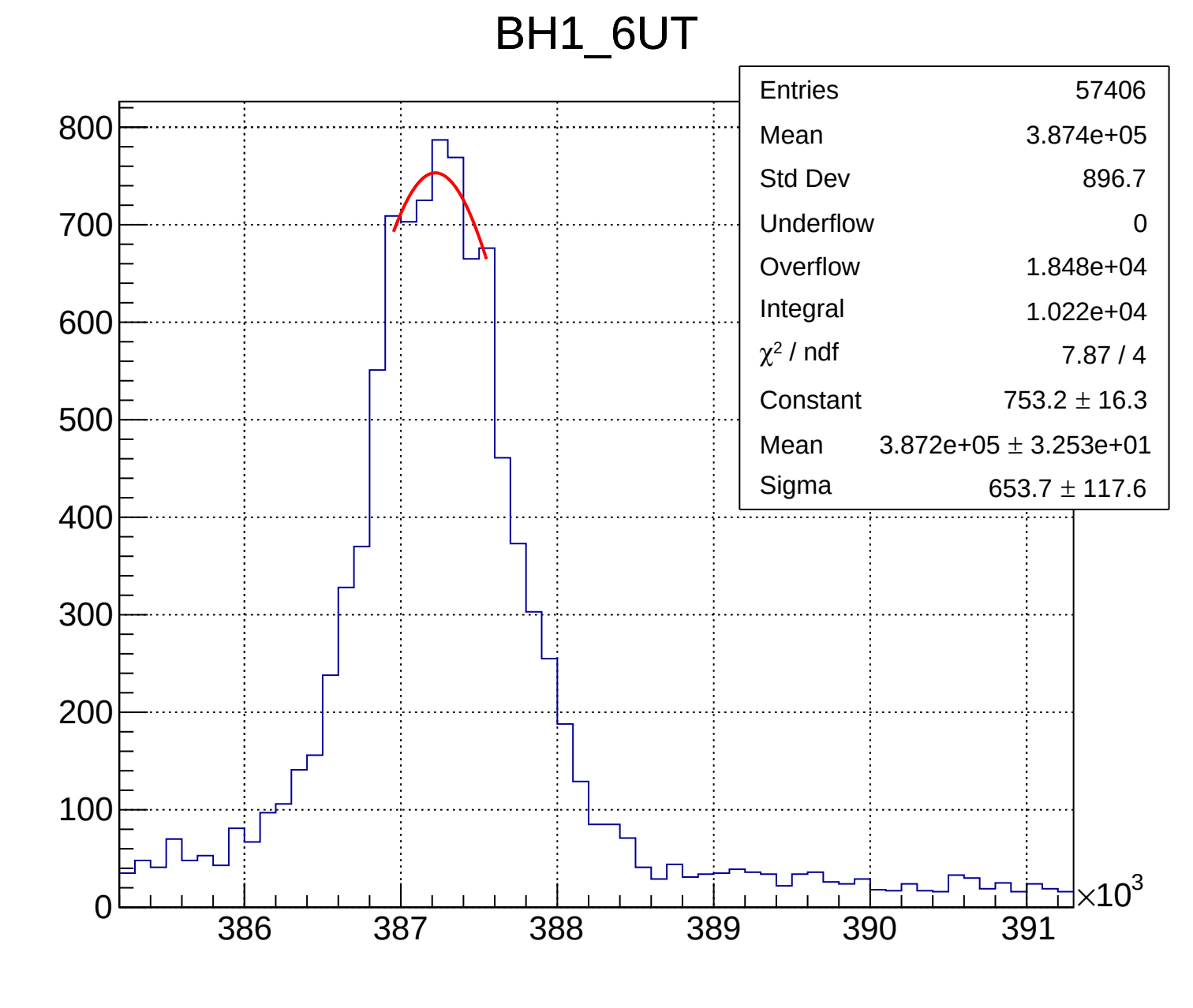
600
500
400
300
200
100
0
385
386
387
388
389
390
×10³


BH1_6UT
Entries 57406
Mean 3.874e+05
Std Dev 896.7
Underflow 0
Overflow 1.848e+04
Integral 1.022e+04
χ² / ndf 7.87 / 4
Constant 753.2 ± 16.3
Mean 3.872e+05 ± 3.253e+01
Sigma 653.7 ± 117.6
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700
600
500
400
300
200
100
0
386
387
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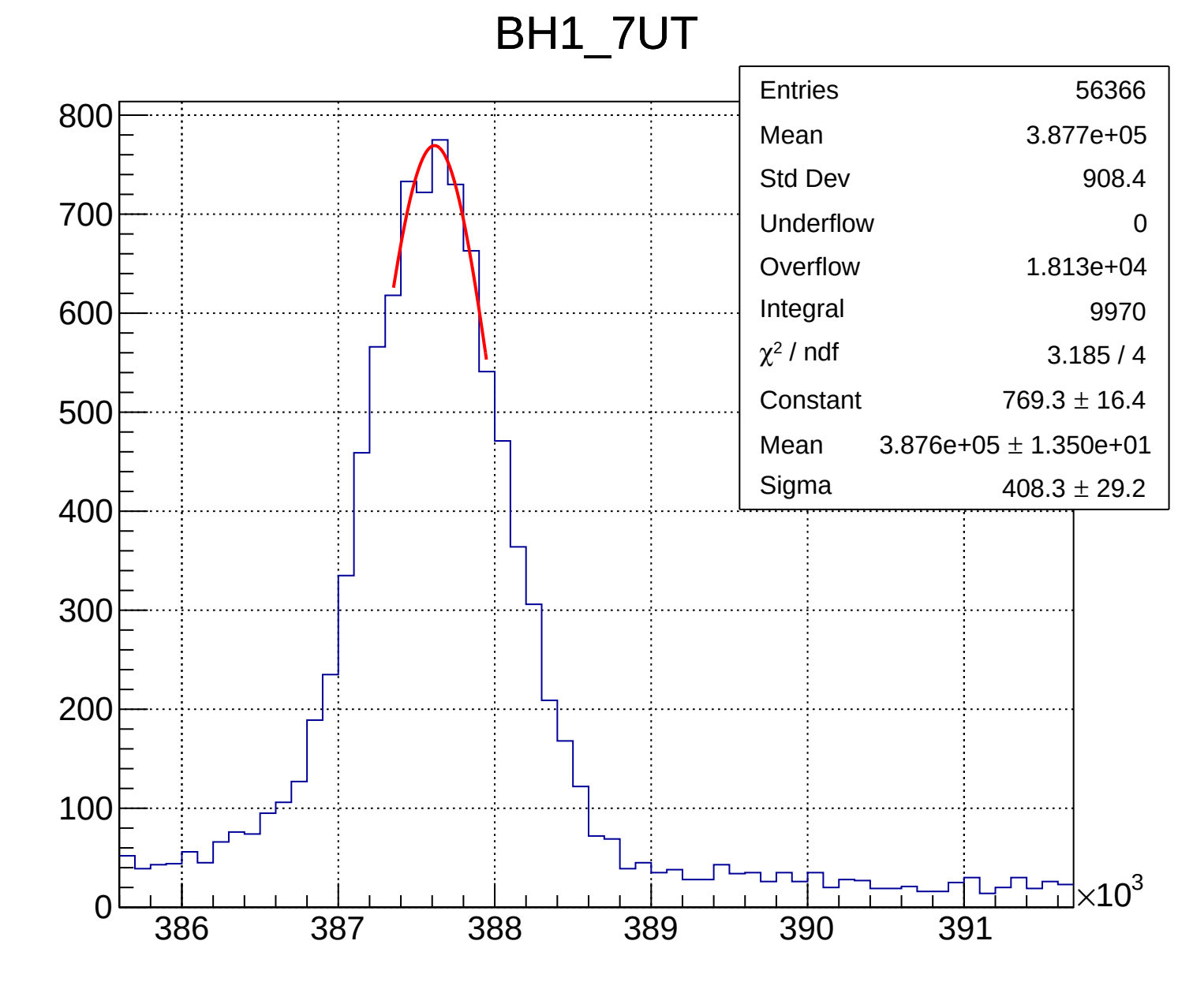
389
390
391
×10³


BH1_7UT
Entries 56366
Mean 3.877e+05
Std Dev 908.4
Underflow 0
Overflow 1.813e+04
Integral 9970
χ² / ndf 3.185 / 4
Constant 769.3 ± 16.4
Mean 3.876e+05 ± 1.350e+01
Sigma 408.3 ± 29.2
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700
600
500
400
300
200
100
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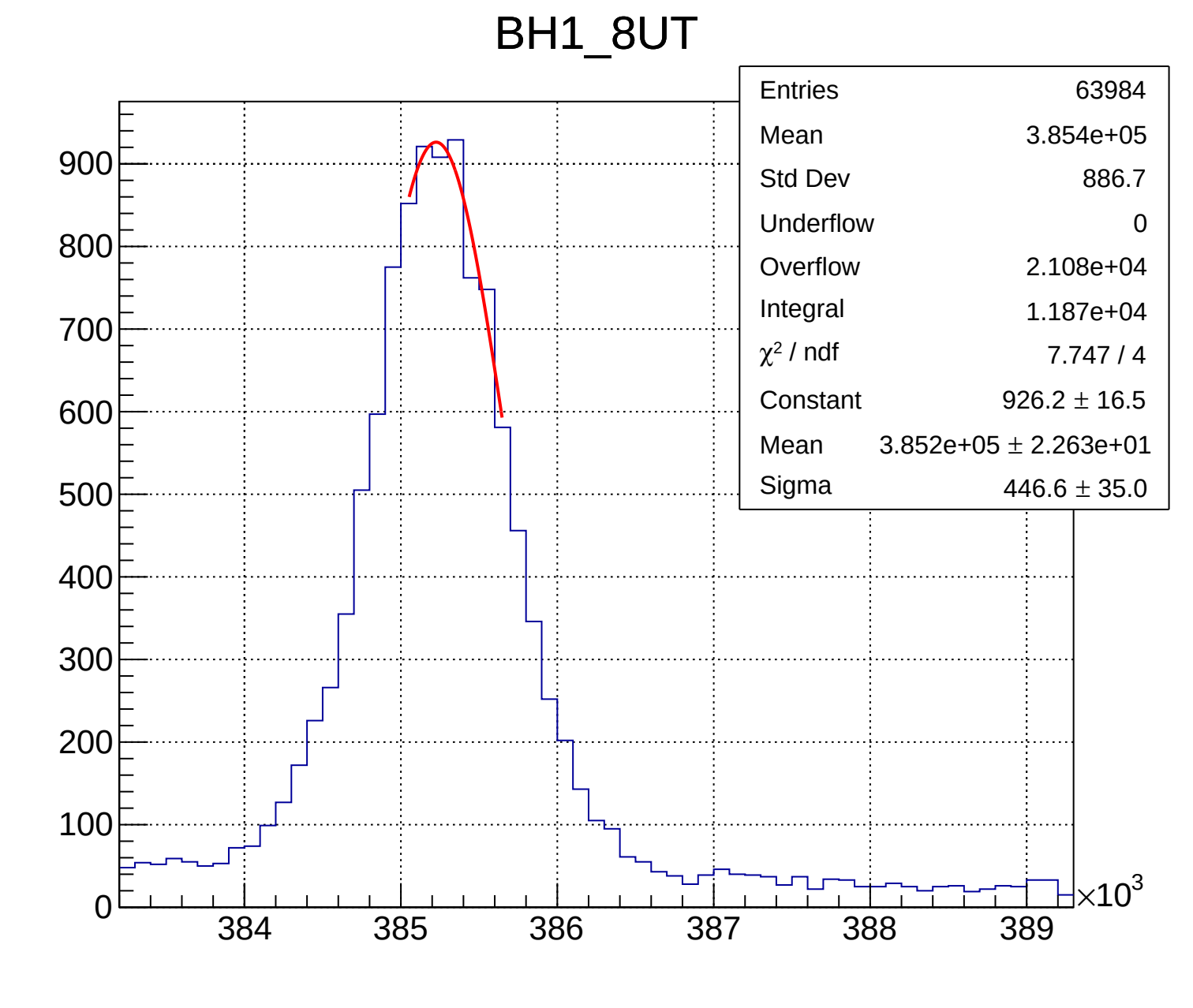
386
387
388
389
390
391
×10³


BH1_8UT
Entries 63984
Mean 3.854e+05
Std Dev 886.7
Underflow 0
Overflow 2.108e+04
Integral 1.187e+04
χ² / ndf 7.747 / 4
Constant 926.2 ± 16.5
Mean 3.852e+05 ± 2.263e+01
Sigma 446.6 ± 35.0
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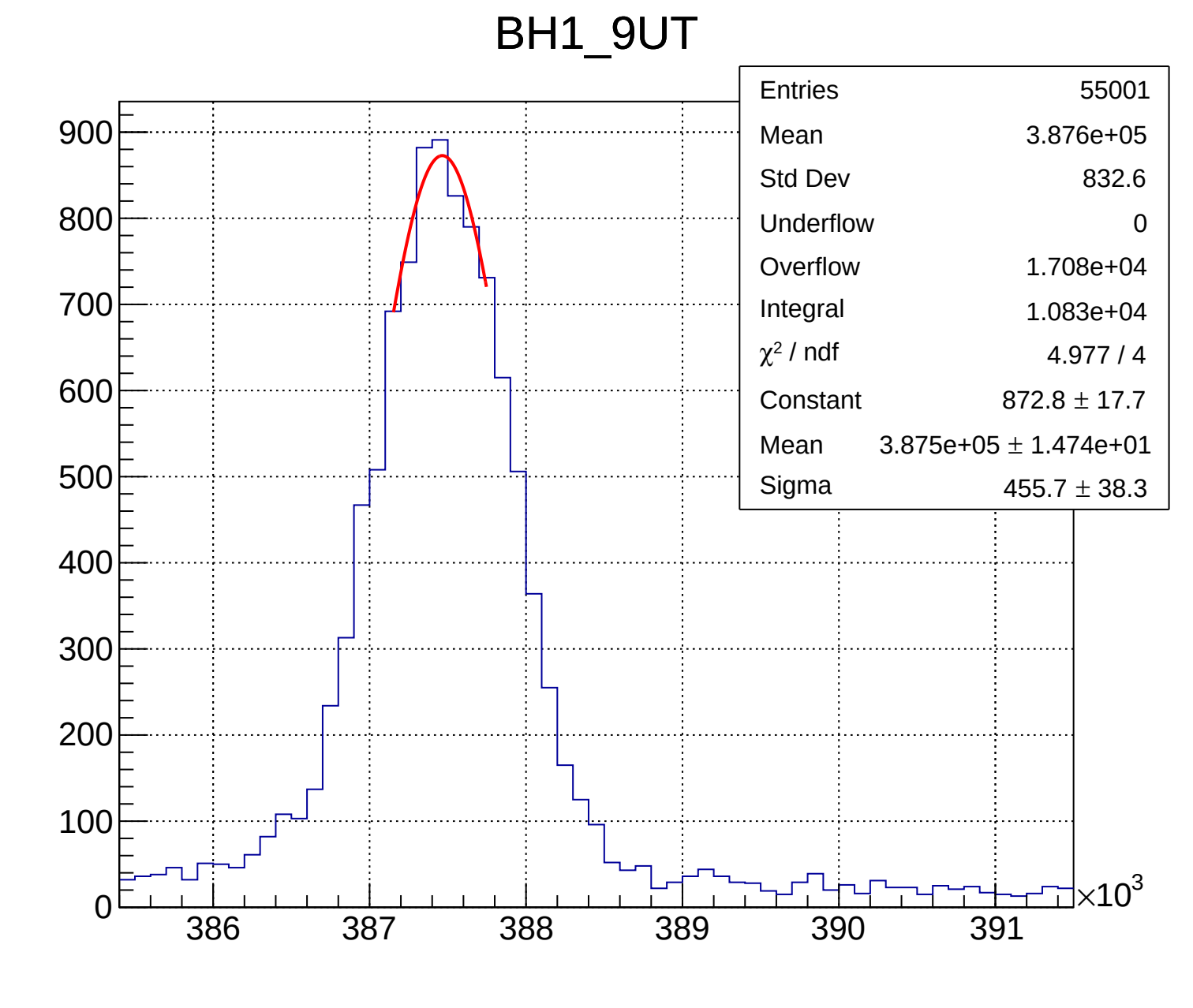
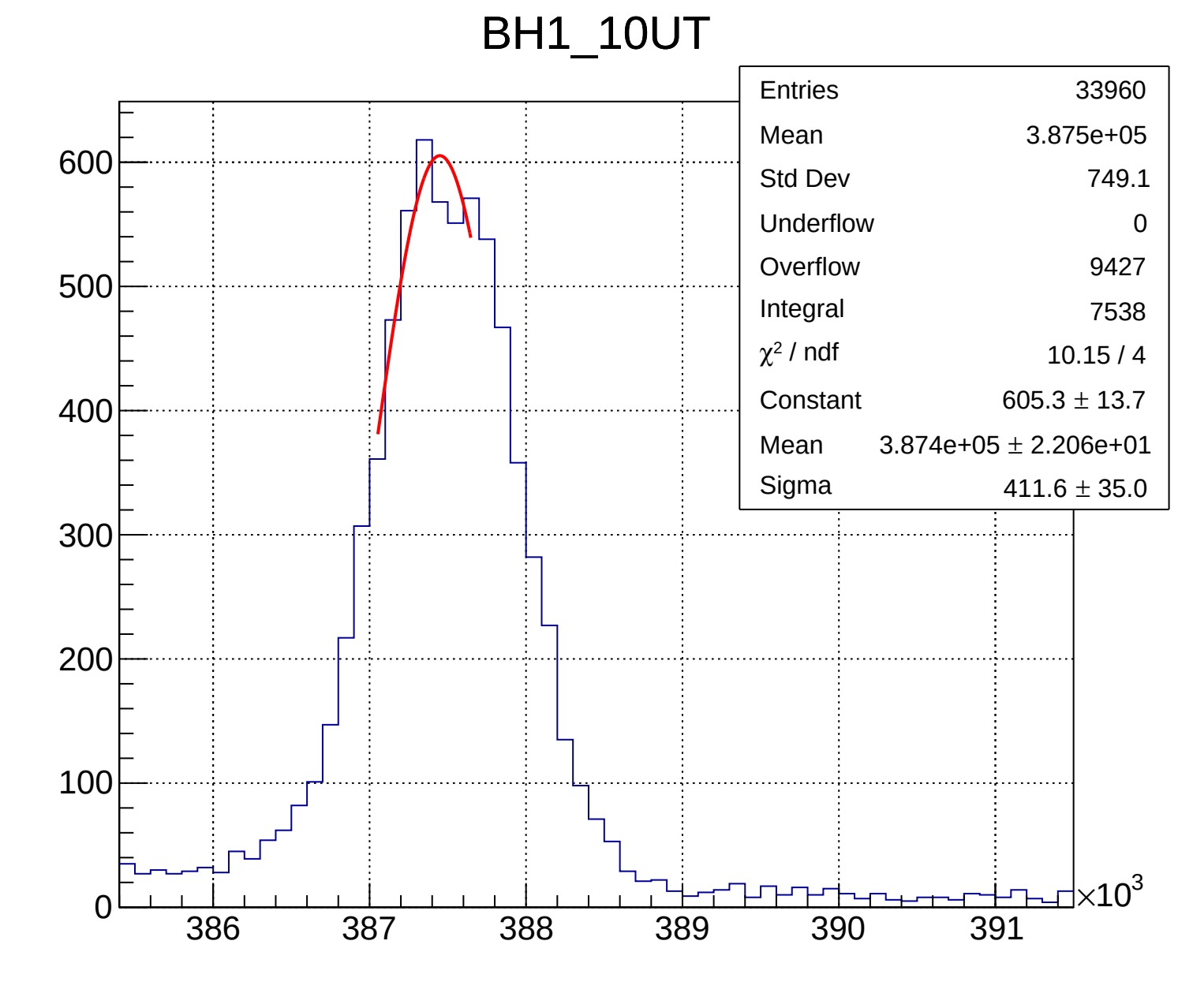
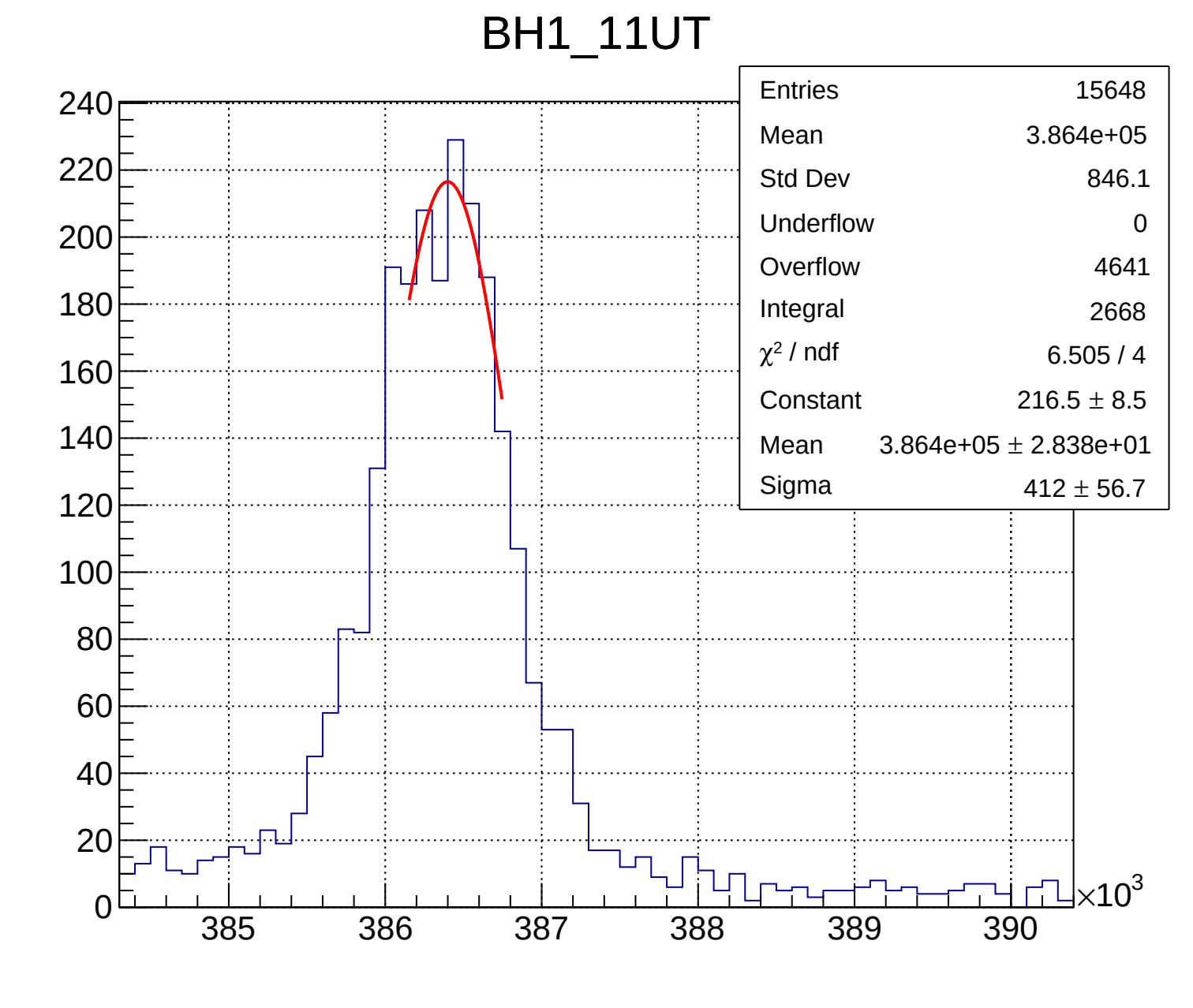
800
700
600
500
400
300
200
100
0
384
385
386
387
388
389
×10³


BH1_9UT
Entries 55001
Mean 3.876e+05
Std Dev 832.6
Underflow 0
Overflow 1.708e+04
Integral 1.083e+04
χ² / ndf 4.977 / 4
Constant 872.8 ± 17.7
Mean 3.875e+05 ± 1.474e+01
Sigma 455.7 ± 38.3
900
800
700
600
500
400
300
200
100
0
386
387
388
389
390
391
×10³


BH1_10UT
Entries 33960
Mean 3.875e+05
Std Dev 749.1
Underflow 0
Overflow 9427
Integral 7538
χ² / ndf 10.15 / 4
Constant 605.3 ± 13.7
Mean 3.874e+05 ± 2.206e+01
Sigma 411.6 ± 35.0
600
500
400
300
200
100
0
386
387
388
389
390
391
×10³


BH1_11UT
Entries 15648
Mean 3.864e+05
Std Dev 846.1
Underflow 0
Overflow 4641
Integral 2668
χ² / ndf 6.505 / 4
Constant 216.5 ± 8.5
Mean 3.864e+05 ± 2.838e+01
Sigma 412 ± 56.7
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220
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180
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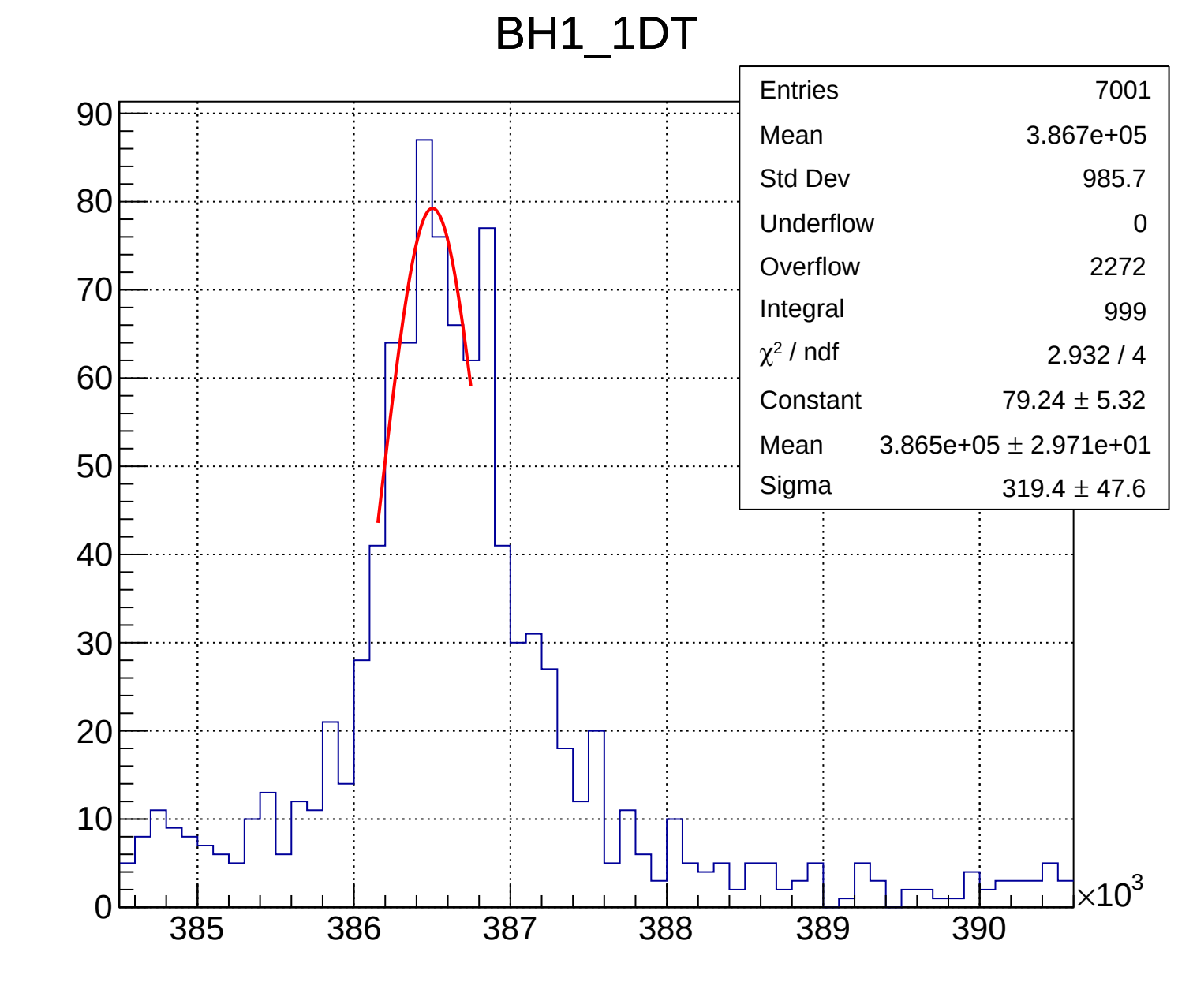
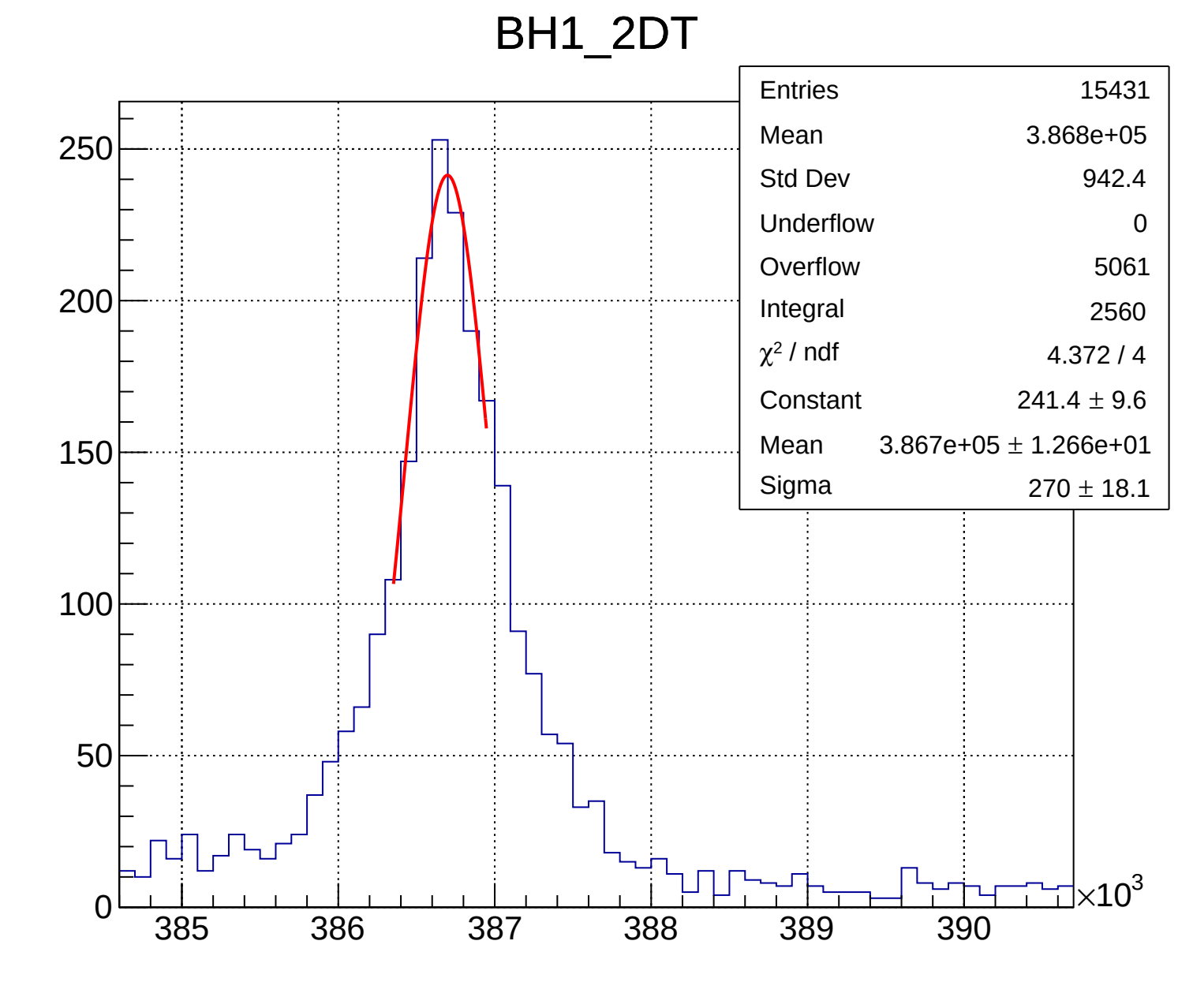
140
120
100
80
60
40
20
0
385
386
387
388
389
390
×10³


BH1_1DT
Entries 7001
Mean 3.867e+05
Std Dev 985.7
Underflow 0
Overflow 2272
Integral 999
χ² / ndf 2.932 / 4
Constant 79.24 ± 5.32
Mean 3.865e+05 ± 2.971e+01
Sigma 319.4 ± 47.6
90
80
70
60
50
40
30
20
10
0
385
386
387
388
389
390
×10³


BH1_2DT
Entries 15431
Mean 3.868e+05
Std Dev 942.4
Underflow 0
Overflow 5061
Integral 2560
χ² / ndf 4.372 / 4
Constant 241.4 ± 9.6
Mean 3.867e+05 ± 1.266e+01
Sigma 270 ± 18.1
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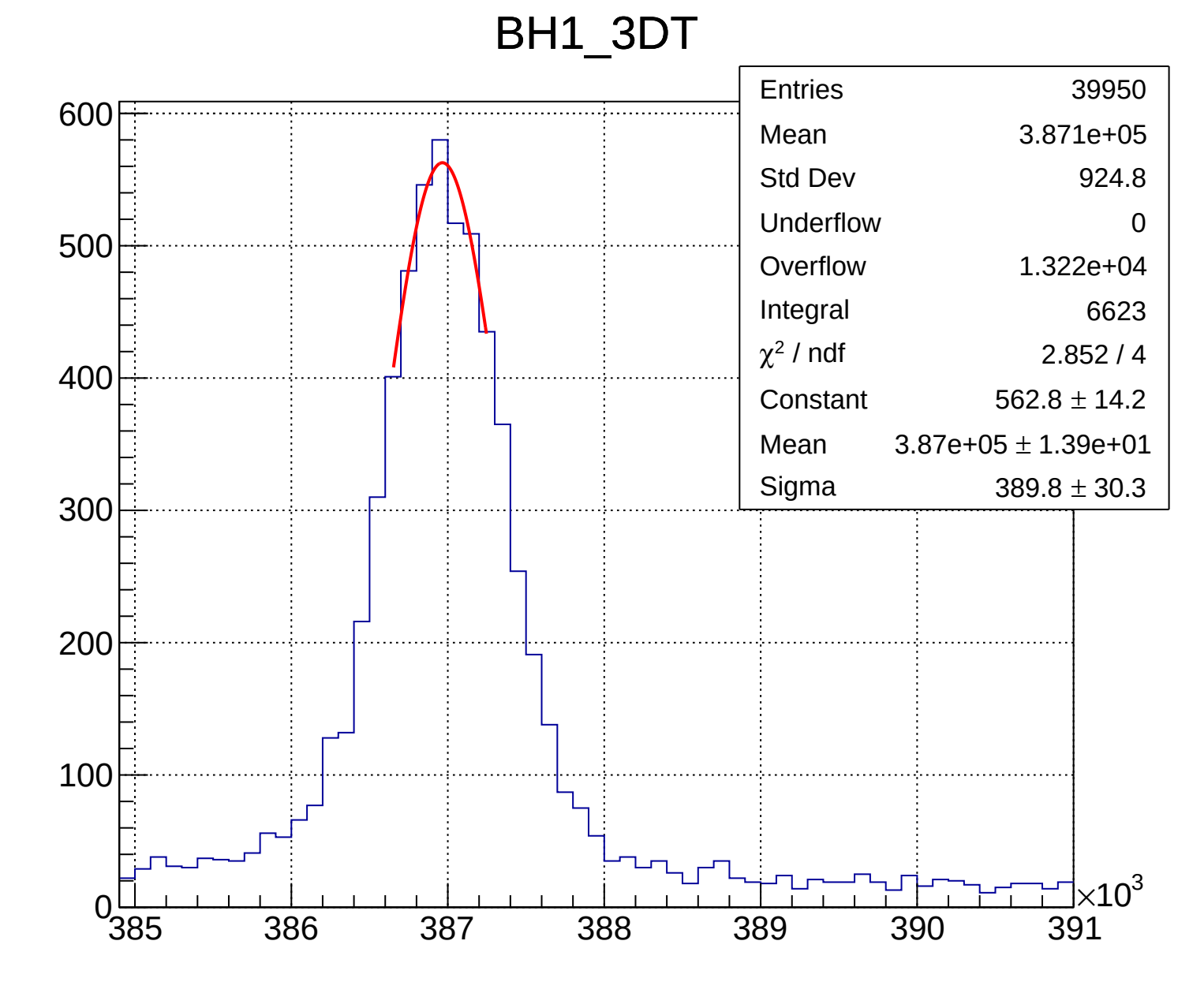
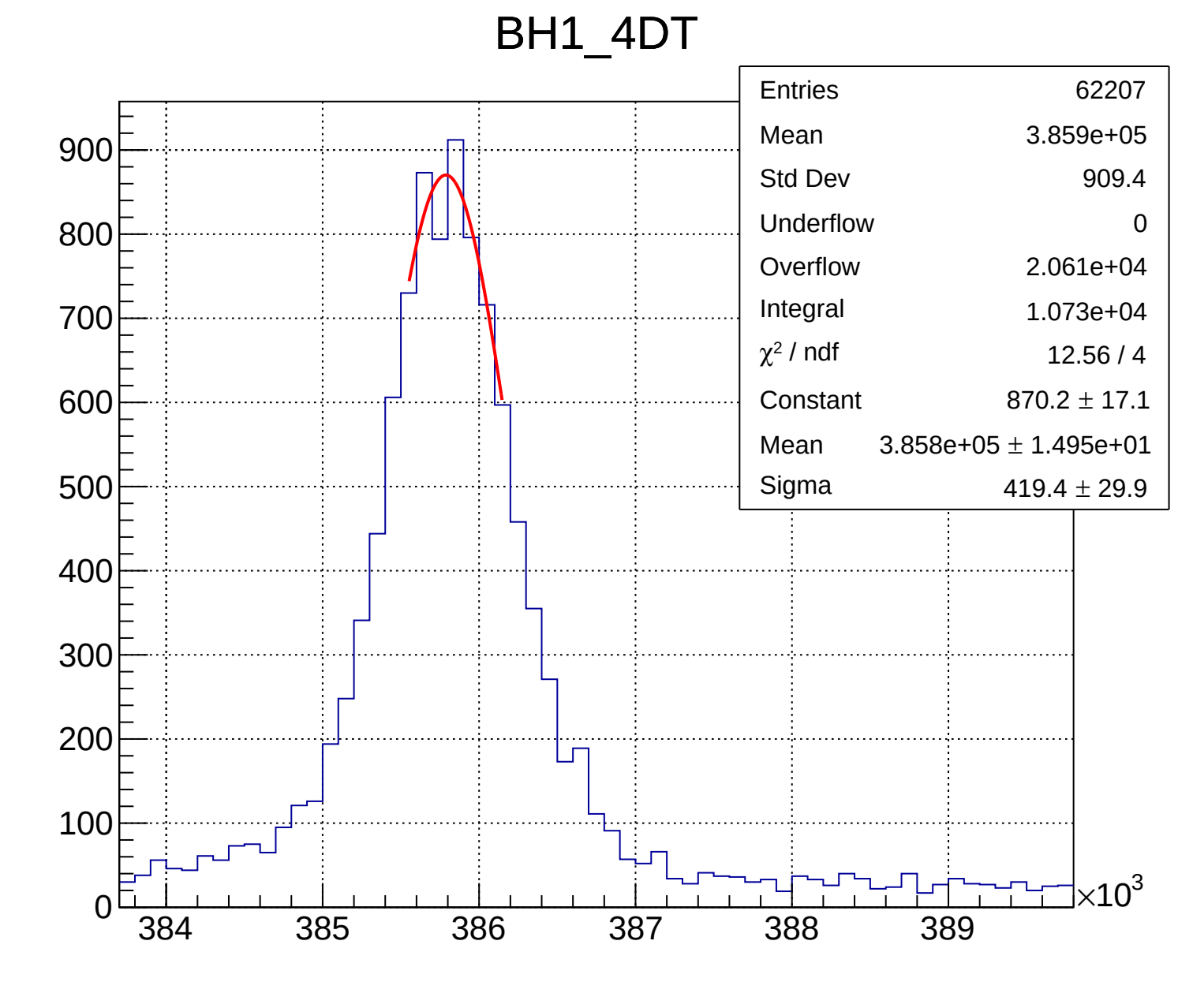
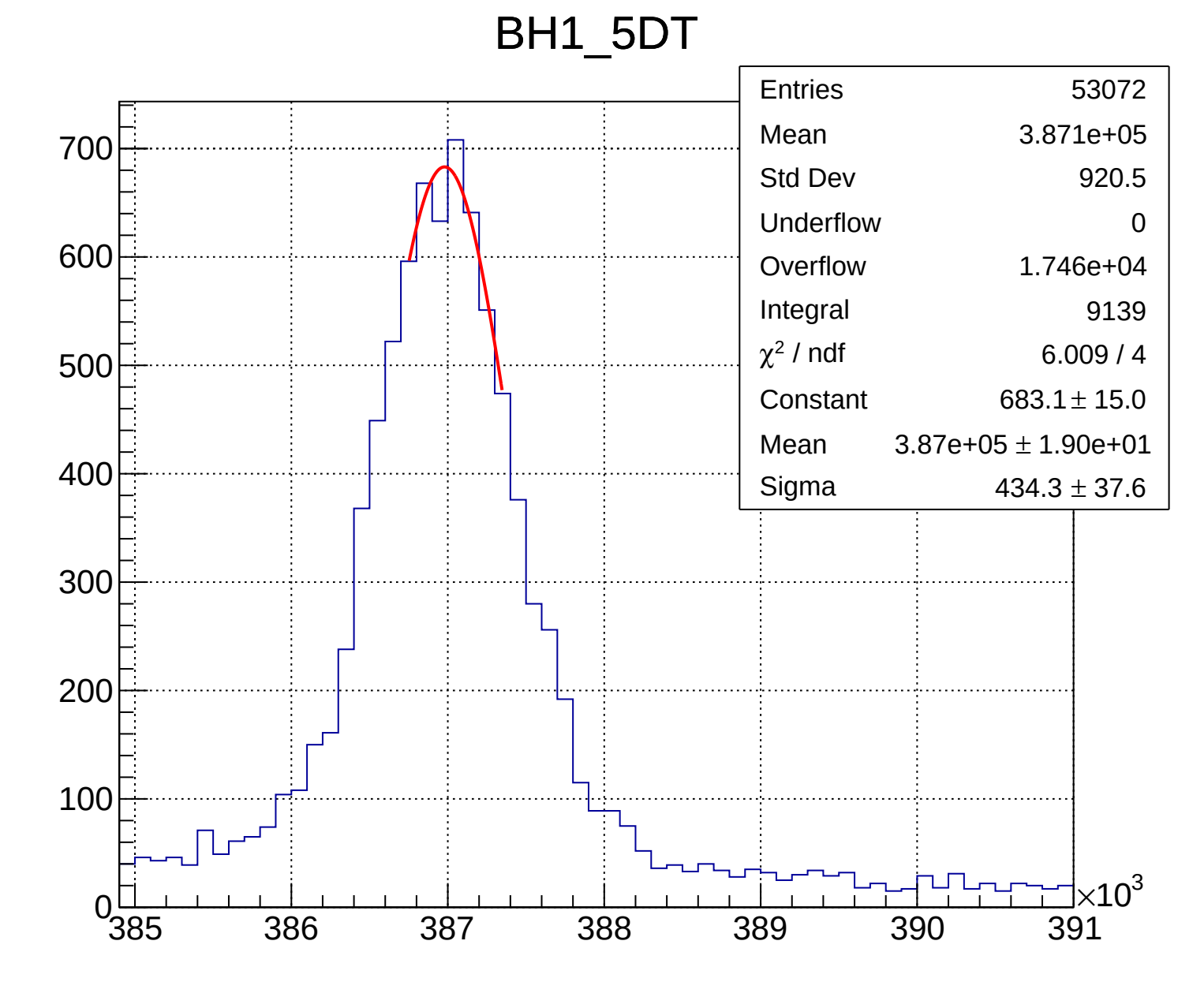
200
150
100
50
0
385
386
387
388
389
390
×10³


BH1_3DT
Entries 39950
Mean 3.871e+05
Std Dev 924.8
Underflow 0
Overflow 1.322e+04
Integral 6623
χ² / ndf 2.852 / 4
Constant 562.8 ± 14.2
Mean 3.87e+05 ± 1.39e+01
Sigma 389.8 ± 30.3
600
500
400
300
200
100
0
385
386
387
388
389
390
391
×10³


BH1_4DT
Entries 62207
Mean 3.859e+05
Std Dev 909.4
Underflow 0
Overflow 2.061e+04
Integral 1.073e+04
χ² / ndf 12.56 / 4
Constant 870.2 ± 17.1
Mean 3.858e+05 ± 1.495e+01
Sigma 419.4 ± 29.9
900
800
700
600
500
400
300
200
100
0
384
385
386
387
388
389
×10³


BH1_5DT
Entries 53072
Mean 3.871e+05
Std Dev 920.5
Underflow 0
Overflow 1.746e+04
Integral 9139
χ² / ndf 6.009 / 4
Constant 683.1 ± 15.0
Mean 3.87e+05 ± 1.90e+01
Sigma 434.3 ± 37.6
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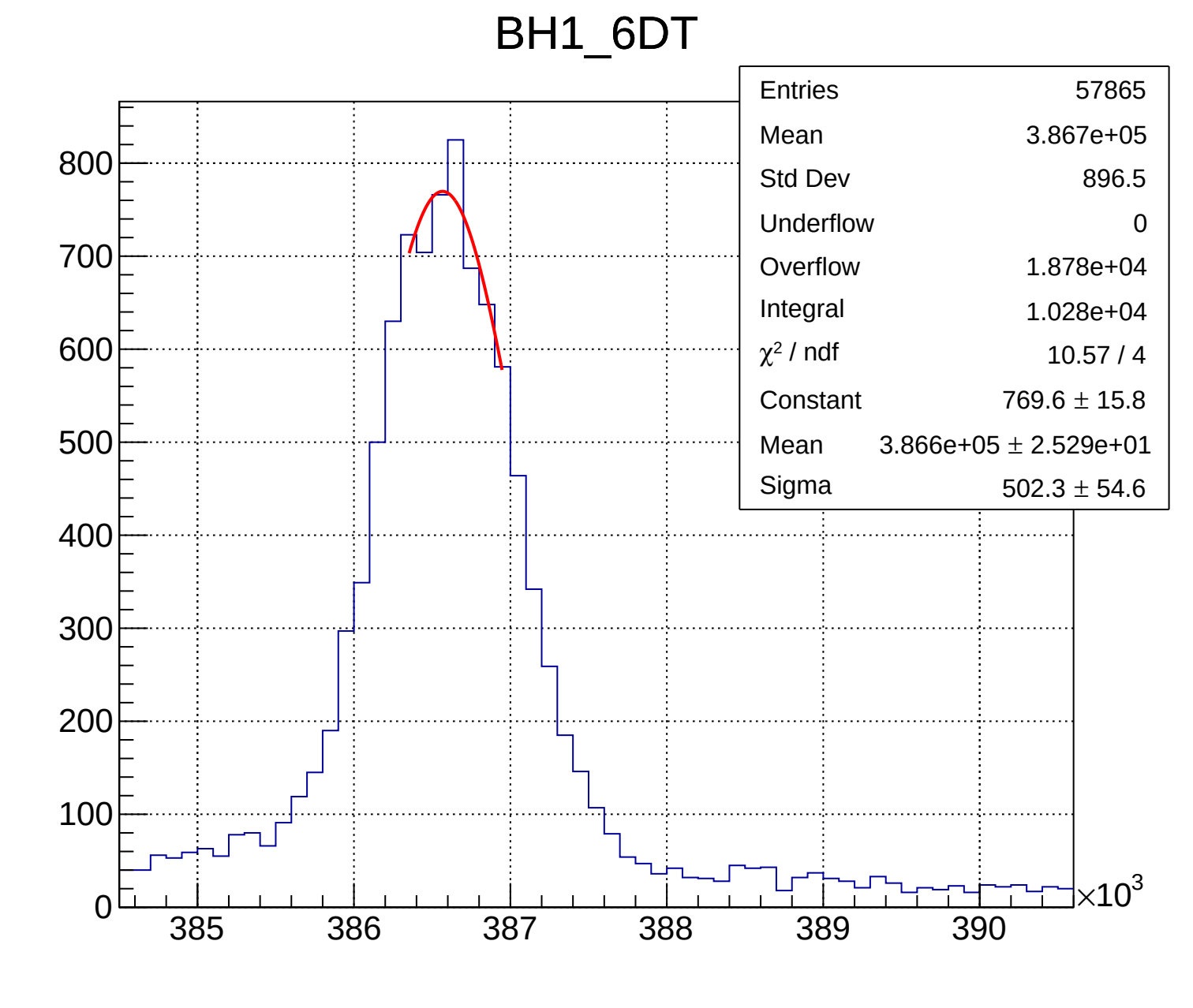
600
500
400
300
200
100
0
385
386
387
388
389
390
391
×10³


BH1_6DT
Entries 57865
Mean 3.867e+05
Std Dev 896.5
Underflow 0
Overflow 1.878e+04
Integral 1.028e+04
χ² / ndf 10.57 / 4
Constant 769.6 ± 15.8
Mean 3.866e+05 ± 2.529e+01
Sigma 502.3 ± 54.6
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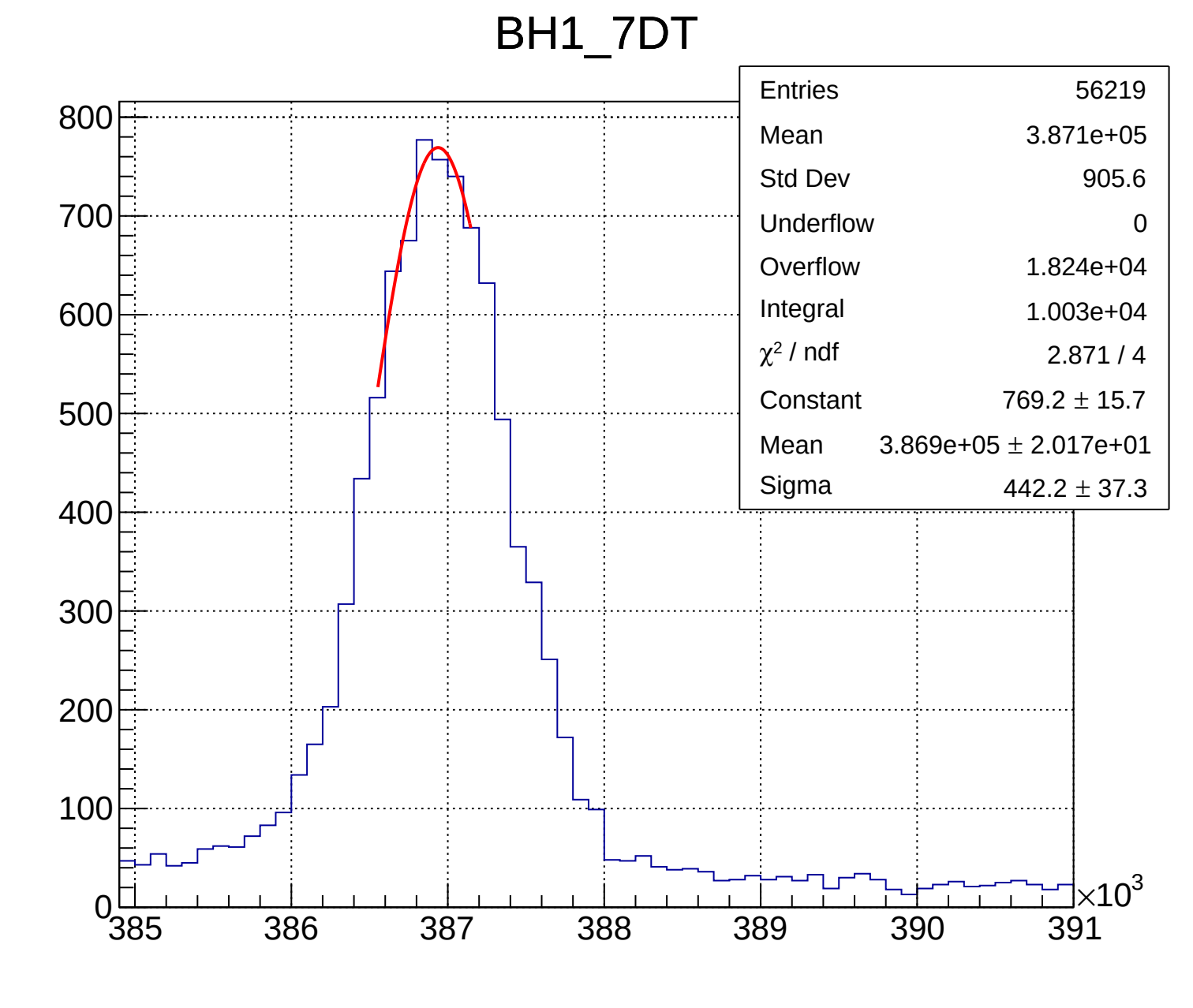
700
600
500
400
300
200
100
0
385
386
387
388
389
390
×10³


BH1_7DT
Entries 56219
Mean 3.871e+05
Std Dev 905.6
Underflow 0
Overflow 1.824e+04
Integral 1.003e+04
χ² / ndf 2.871 / 4
Constant 769.2 ± 15.7
Mean 3.869e+05 ± 2.017e+01
Sigma 442.2 ± 37.3
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700
600
500
400
300
200
100
0
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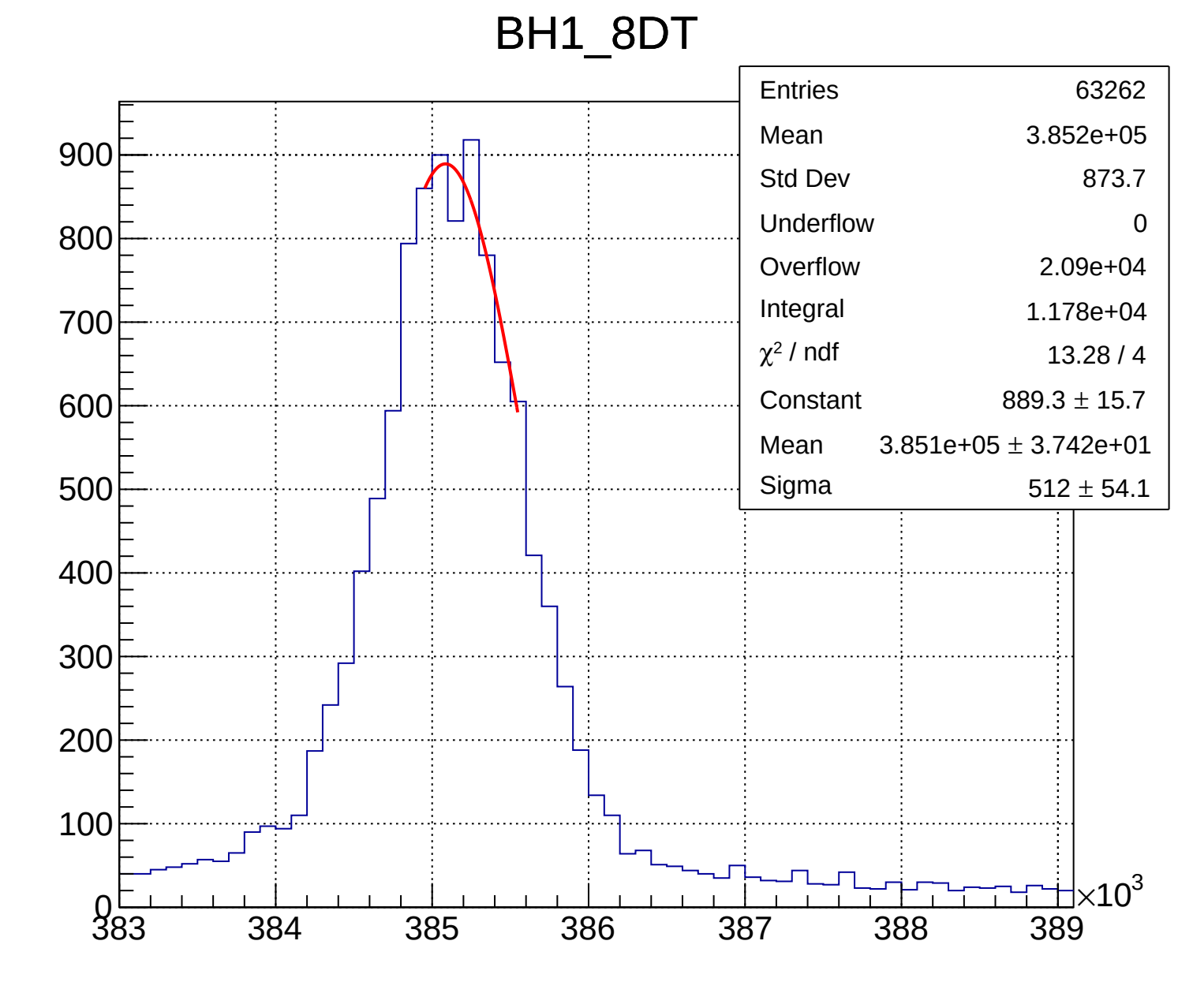
386
387
388
389
390
391
×10³


BH1_8DT
Entries 63262
Mean 3.852e+05
Std Dev 873.7
Underflow 0
Overflow 2.09e+04
Integral 1.178e+04
χ² / ndf 13.28 / 4
Constant 889.3 ± 15.7
Mean 3.851e+05 ± 3.742e+01
Sigma 512 ± 54.1
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700
600
500
400
300
200
100
0
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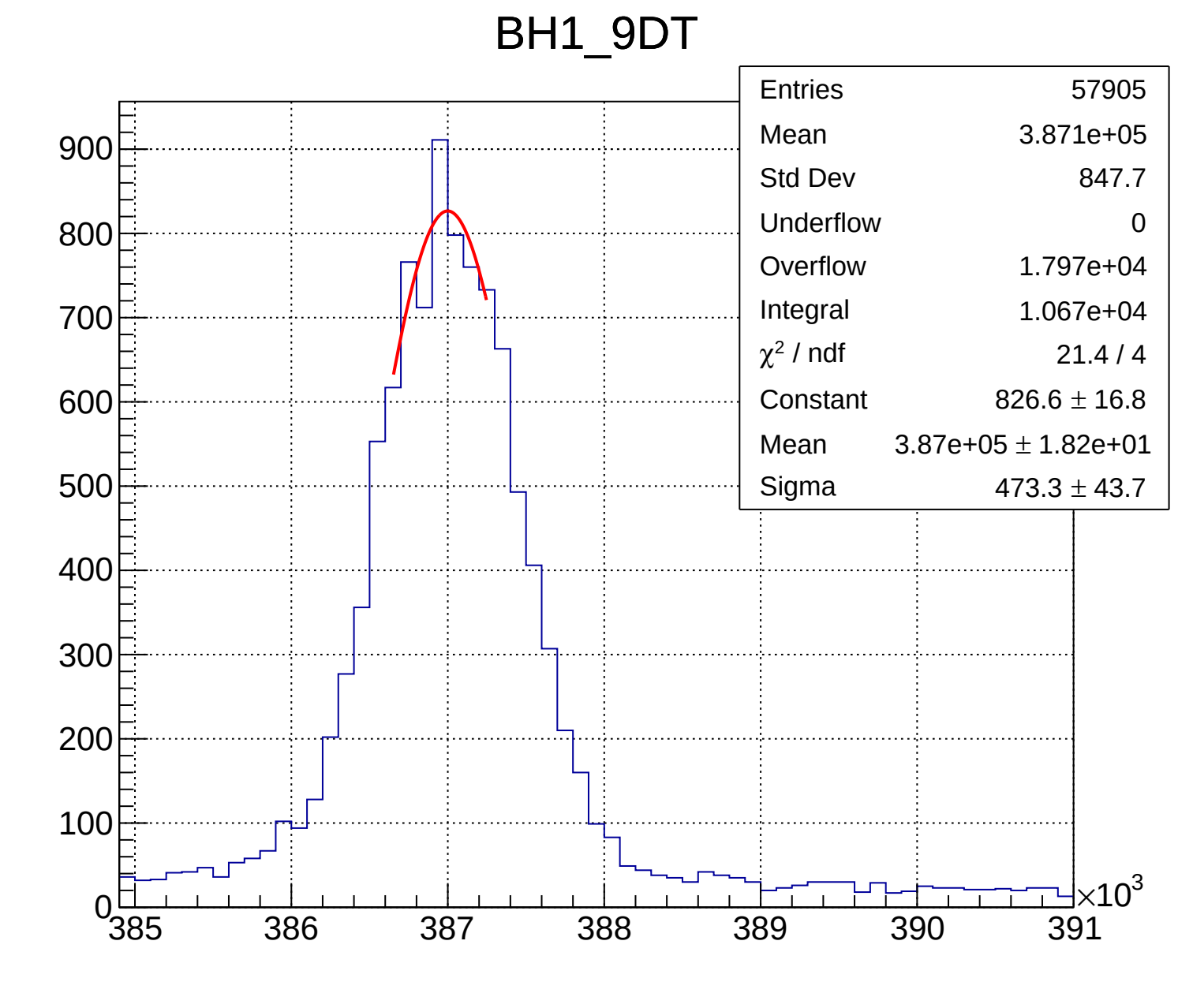
384
385
386
387
388
389
×10³


BH1_9DT
Entries 57905
Mean 3.871e+05
Std Dev 847.7
Underflow 0
Overflow 1.797e+04
Integral 1.067e+04
χ² / ndf 21.4 / 4
Constant 826.6 ± 16.8
Mean 3.87e+05 ± 1.82e+01
Sigma 473.3 ± 43.7
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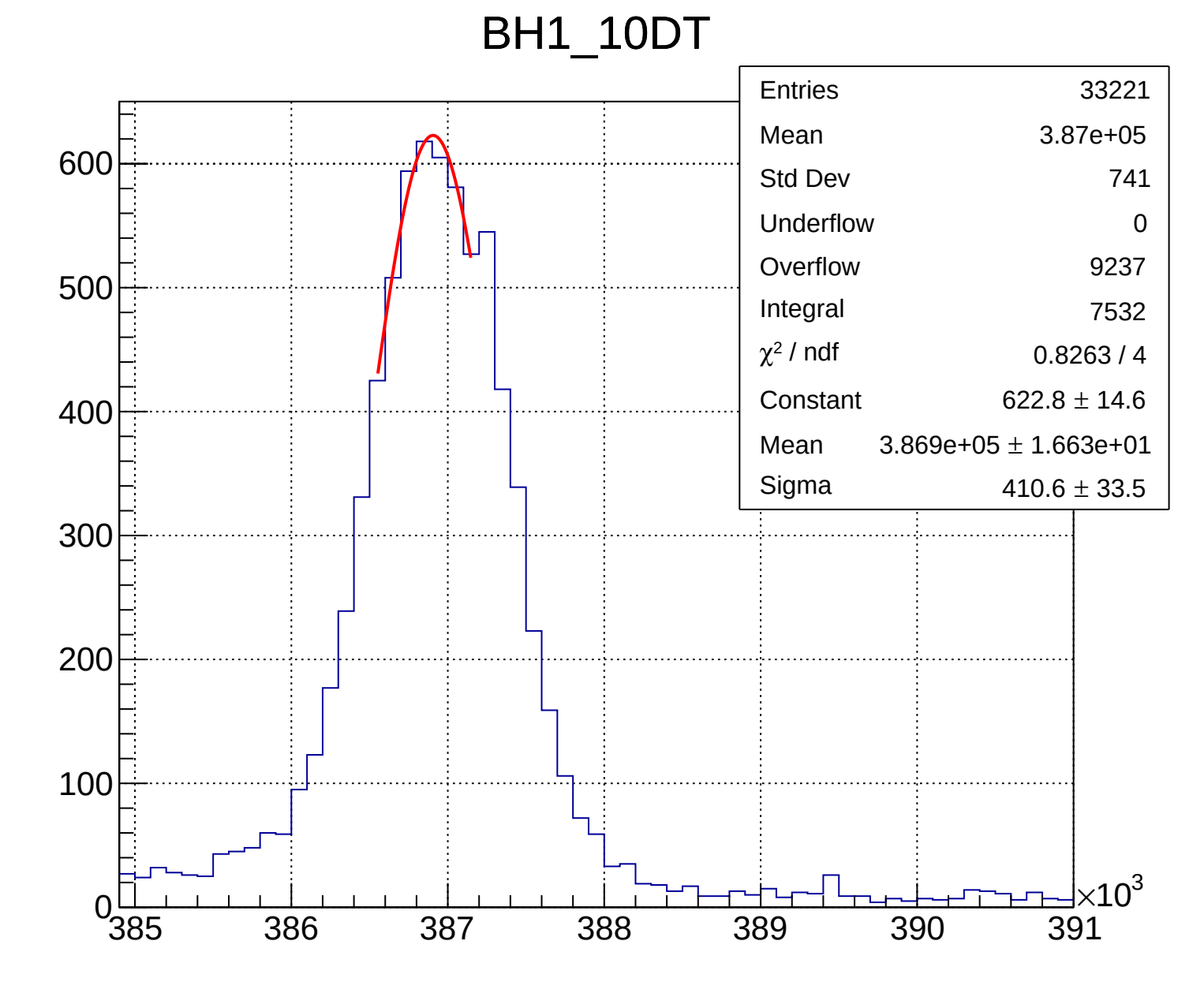
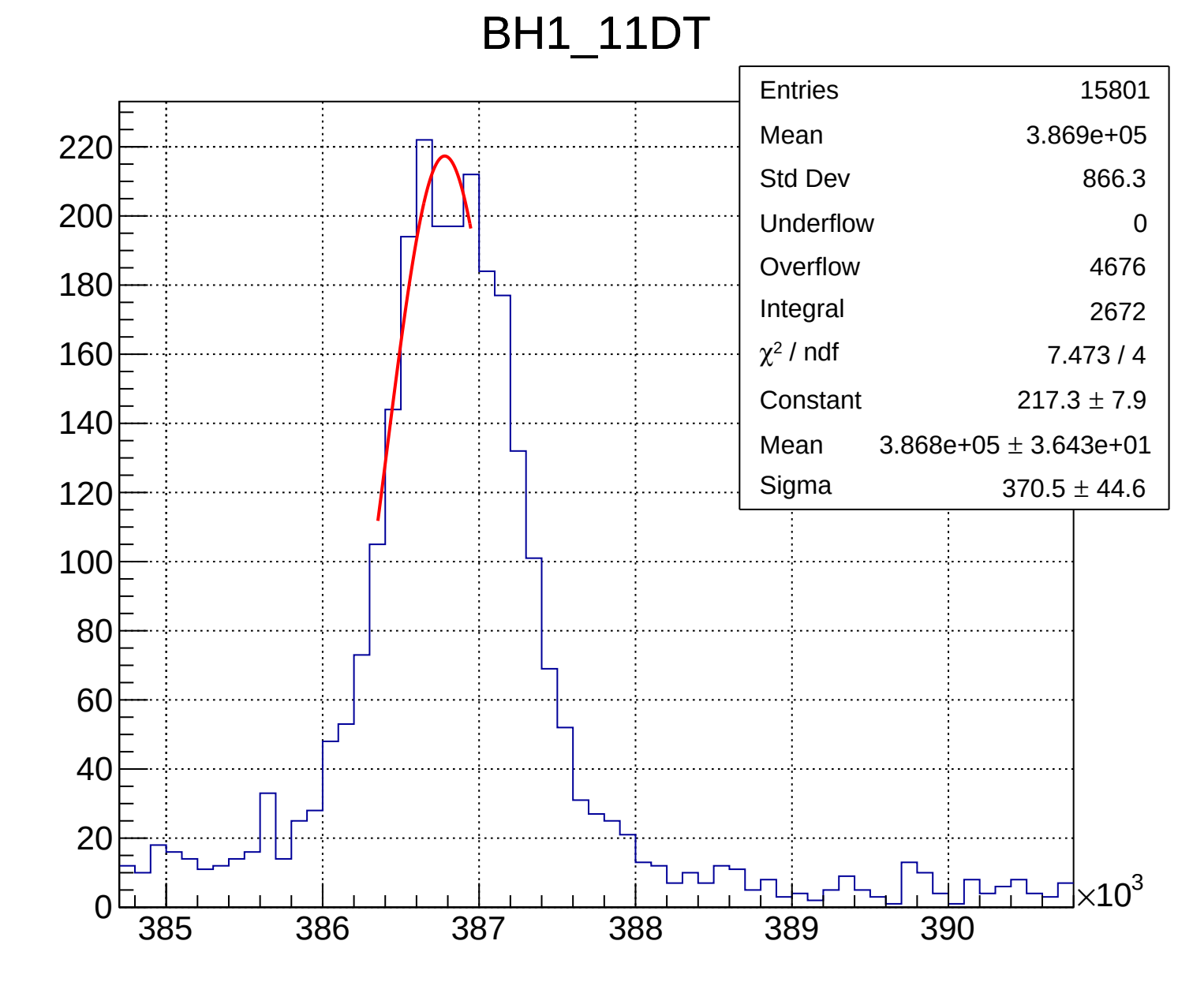
800
700
600
500
400
300
200
100
0
385
386
387
388
389
390
391
×10³


BH1_10DT
Entries 33221
Mean 3.87e+05
Std Dev 741
Underflow 0
Overflow 9237
Integral 7532
χ² / ndf 0.8263 / 4
Constant 622.8 ± 14.6
Mean 3.869e+05 ± 1.663e+01
Sigma 410.6 ± 33.5
600
500
400
300
200
100
0
385
386
387
388
389
390
391
×10³


BH1_11DT
Entries 15801
Mean 3.869e+05
Std Dev 866.3
Underflow 0
Overflow 4676
Integral 2672
χ² / ndf 7.473 / 4
Constant 217.3 ± 7.9
Mean 3.868e+05 ± 3.643e+01
Sigma 370.5 ± 44.6
220
200
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160
140
120
100
80
60
40
20
0
385
386
387
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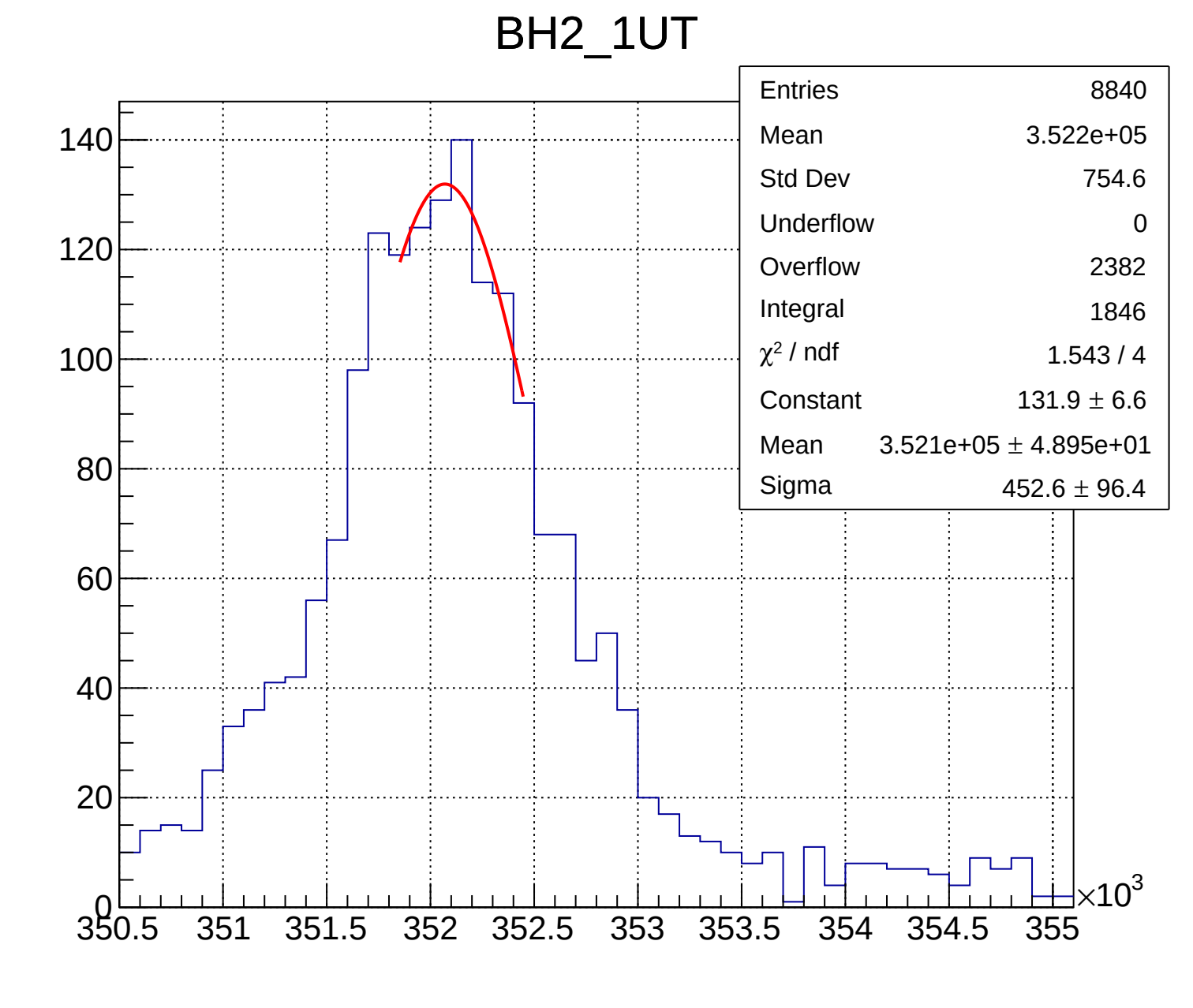
389
390
×10³


BH2_1UT
Entries 8840
Mean 3.522e+05
Std Dev 754.6
Underflow 0
Overflow 2382
Integral 1846
χ² / ndf 1.543 / 4
Constant 131.9 ± 6.6
Mean 3.521e+05 ± 4.895e+01
Sigma 452.6 ± 96.4
140
120
100
80
60
40
20
0
350.5
351
351.5
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352.5
353
353.5
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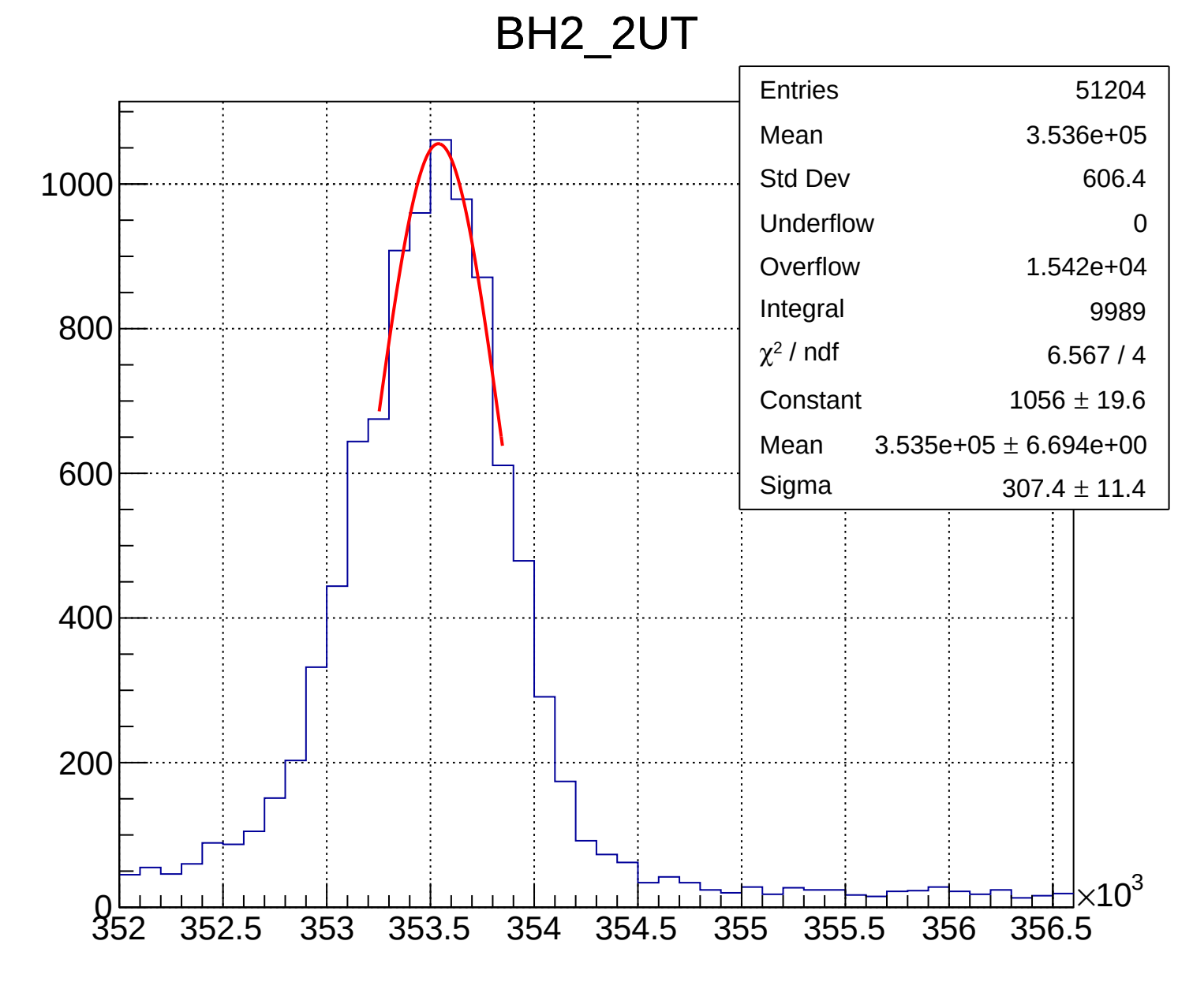
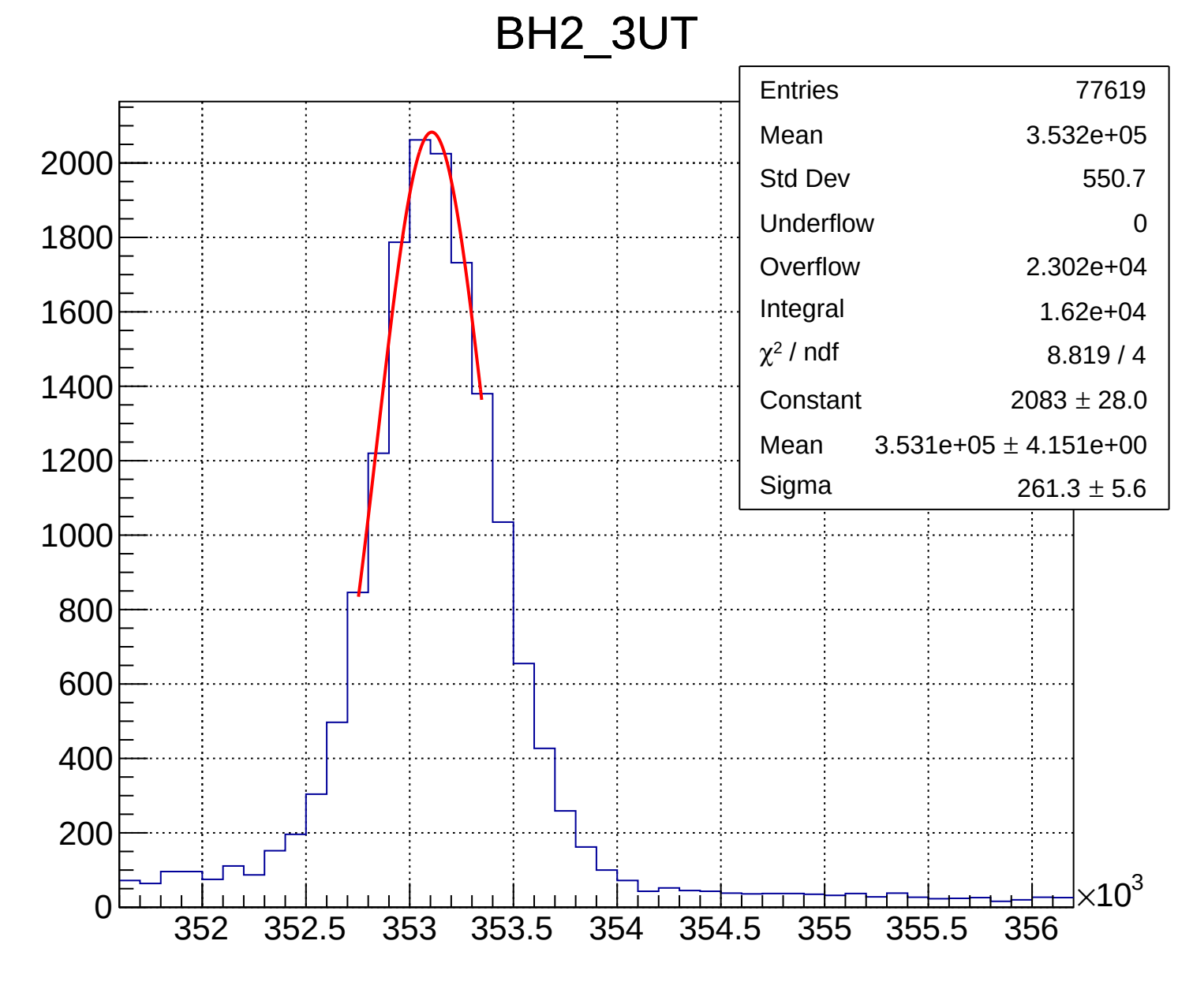
354.5
355
×10³


BH2_2UT
Entries 51204
Mean 3.536e+05
Std Dev 606.4
Underflow 0
Overflow 1.542e+04
Integral 9989
χ² / ndf 6.567 / 4
Constant 1056 ± 19.6
Mean 3.535e+05 ± 6.694e+00
Sigma 307.4 ± 11.4
1000
800
600
400
200
0
352
352.5
353
353.5
354
354.5
355
355.5
356
356.5
×10³


BH2_3UT
Entries 77619
Mean 3.532e+05
Std Dev 550.7
Underflow 0
Overflow 2.302e+04
Integral 1.62e+04
χ² / ndf 8.819 / 4
Constant 2083 ± 28.0
Mean 3.531e+05 ± 4.151e+00
Sigma 261.3 ± 5.6
2000
1800
1600
1400
1200
1000
800
600
400
200
0
352
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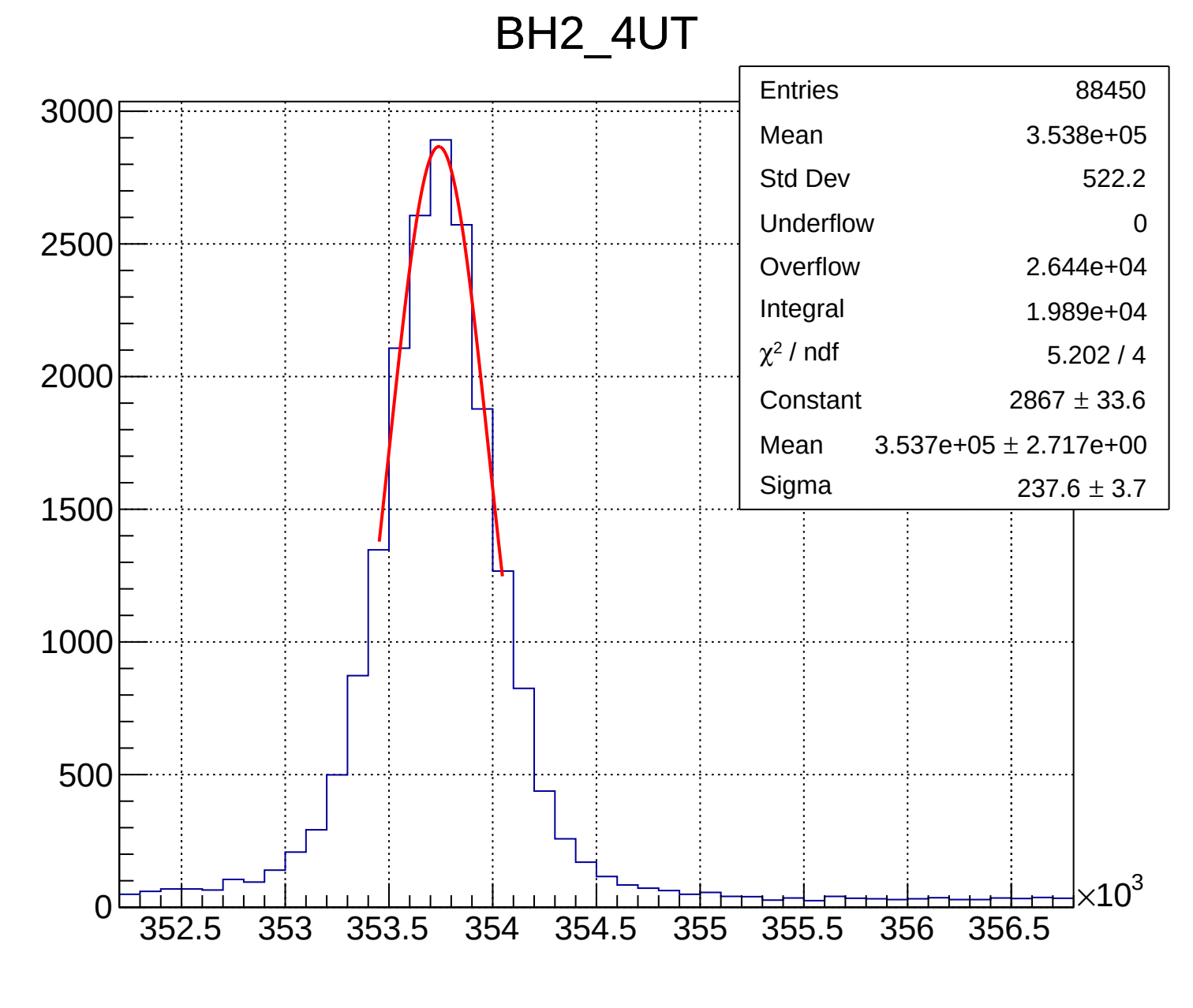
355.5
356
×10³


BH2_4UT
Entries 88450
Mean 3.538e+05
Std Dev 522.2
Underflow 0
Overflow 2.644e+04
Integral 1.989e+04
χ² / ndf 5.202 / 4
Constant 2867 ± 33.6
Mean 3.537e+05 ± 2.717e+00
Sigma 237.6 ± 3.7
3000
2500
2000
1500
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500
0
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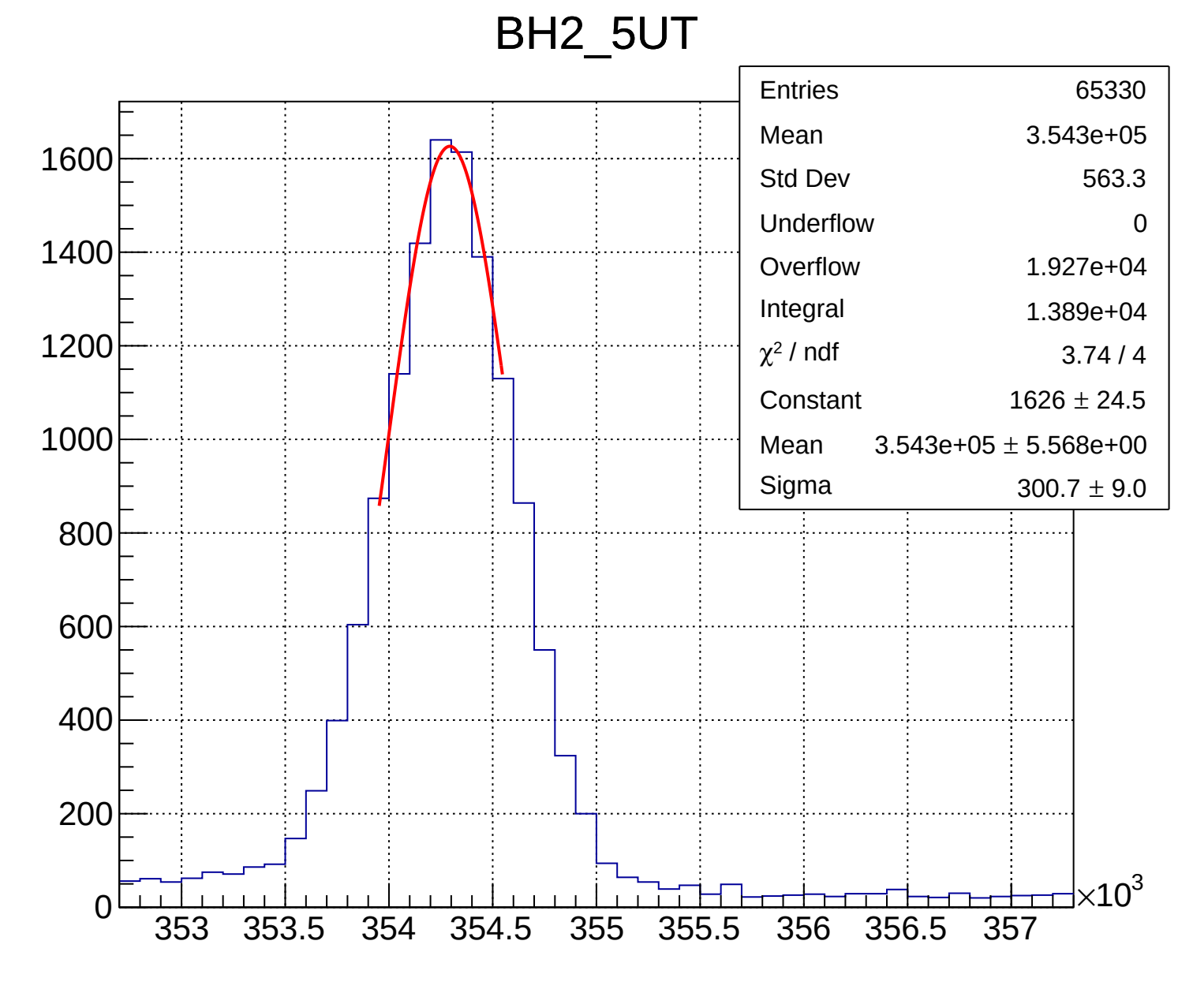
353.5
354
354.5
355
355.5
356
356.5
×10³


BH2_5UT
Entries 65330
Mean 3.543e+05
Std Dev 563.3
Underflow 0
Overflow 1.927e+04
Integral 1.389e+04
χ² / ndf 3.74 / 4
Constant 1626 ± 24.5
Mean 3.543e+05 ± 5.568e+00
Sigma 300.7 ± 9.0
1600
1400
1200
1000
800
600
400
200
0
353
353.5
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354.5
355
355.5
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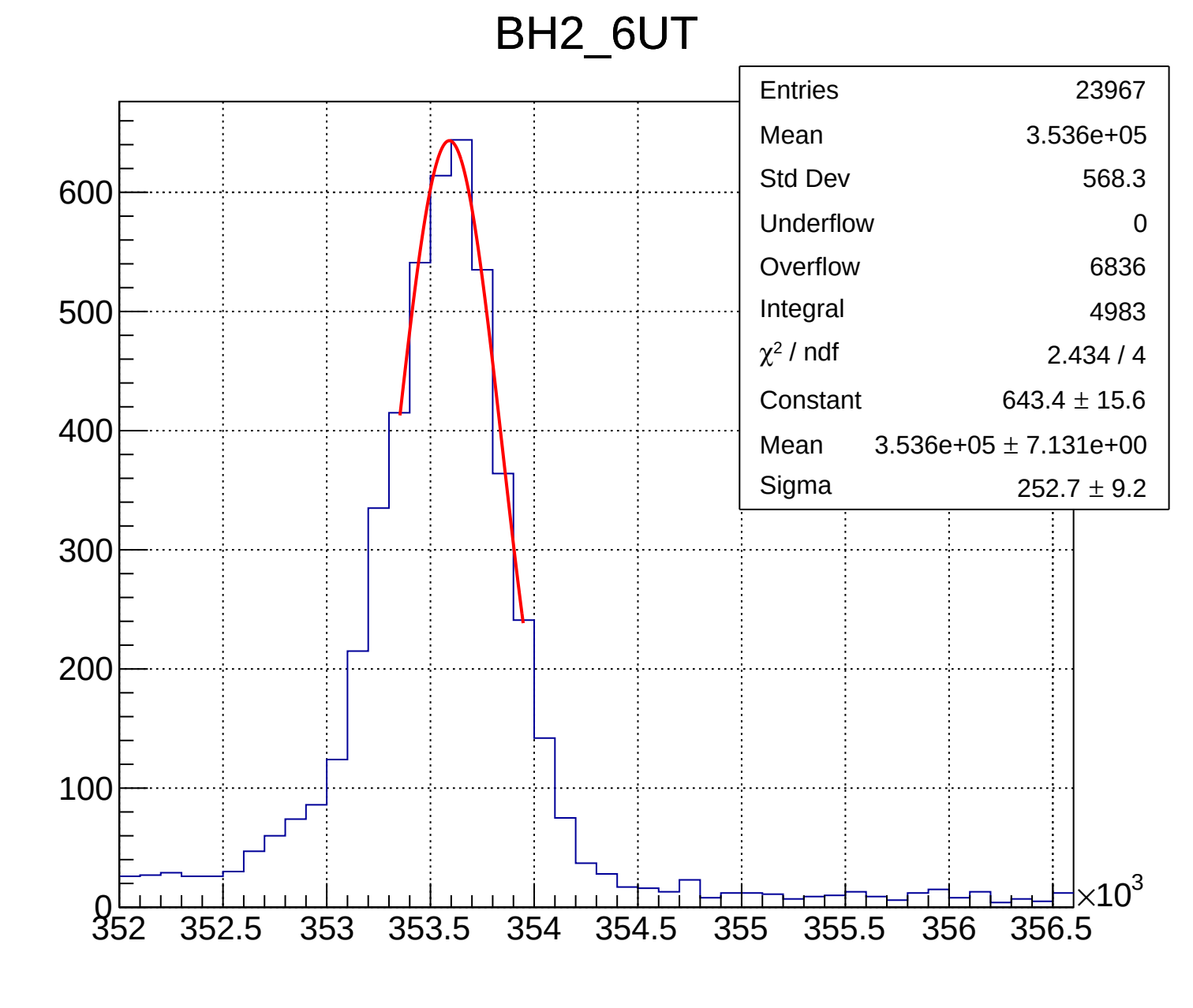
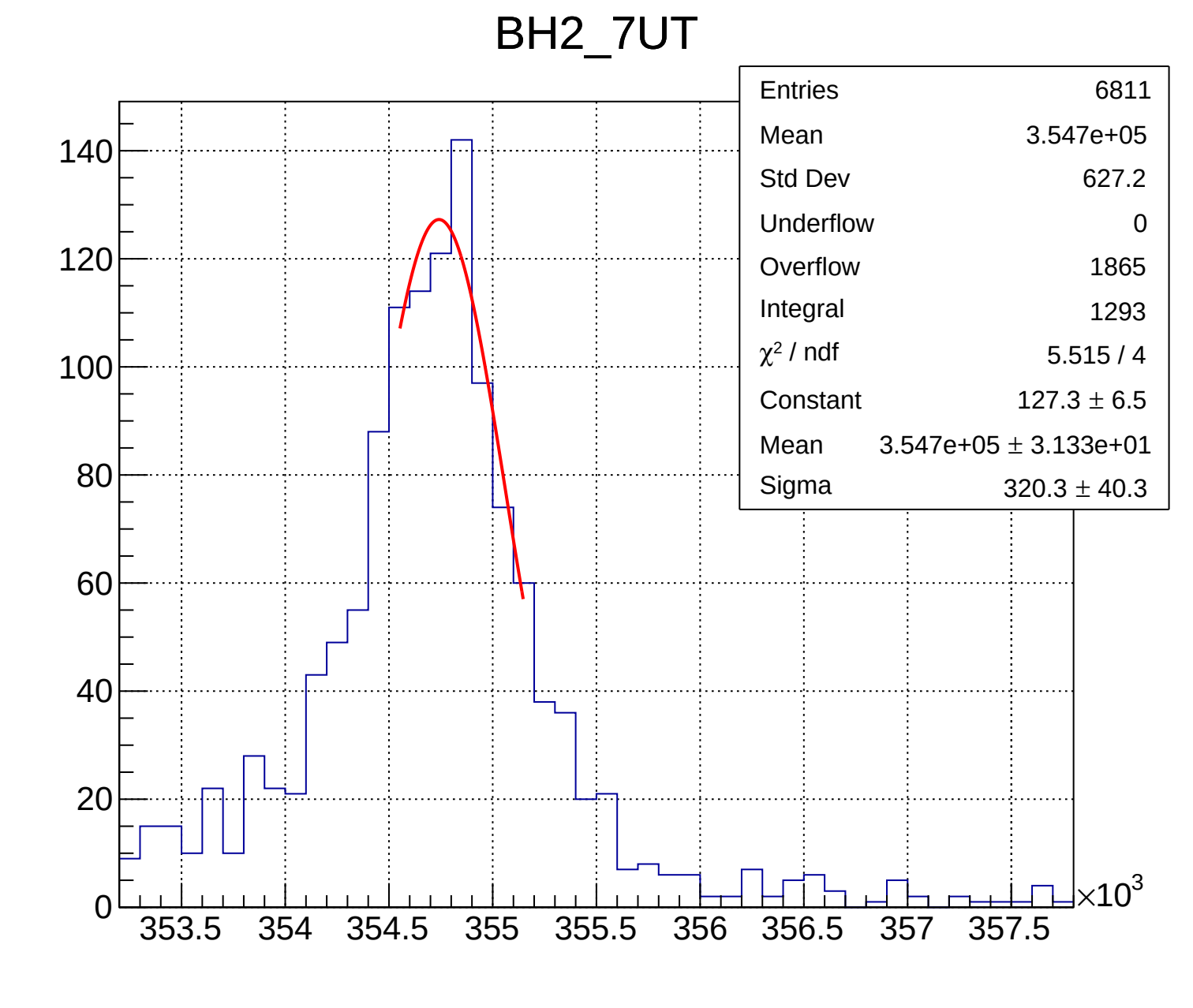
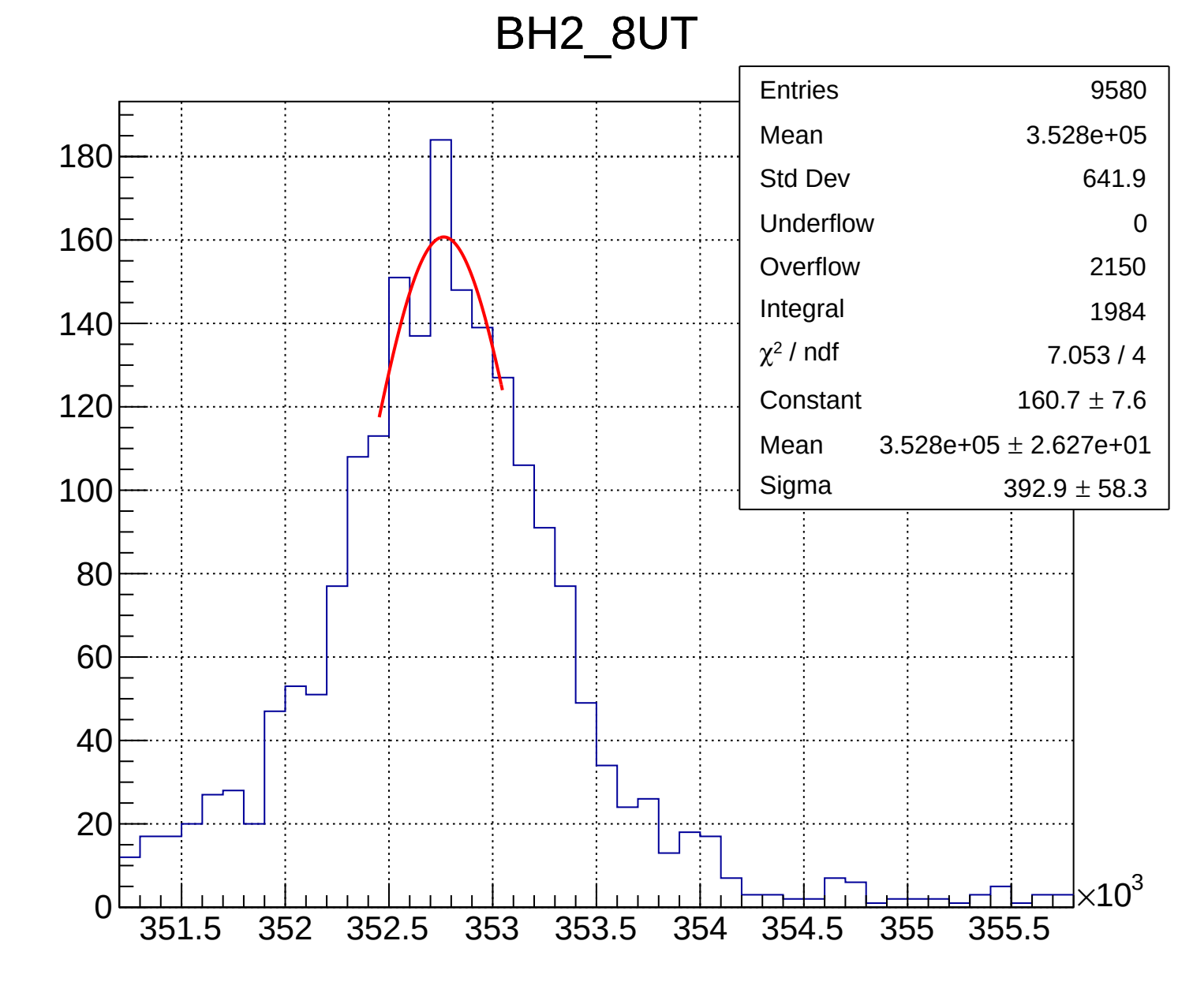
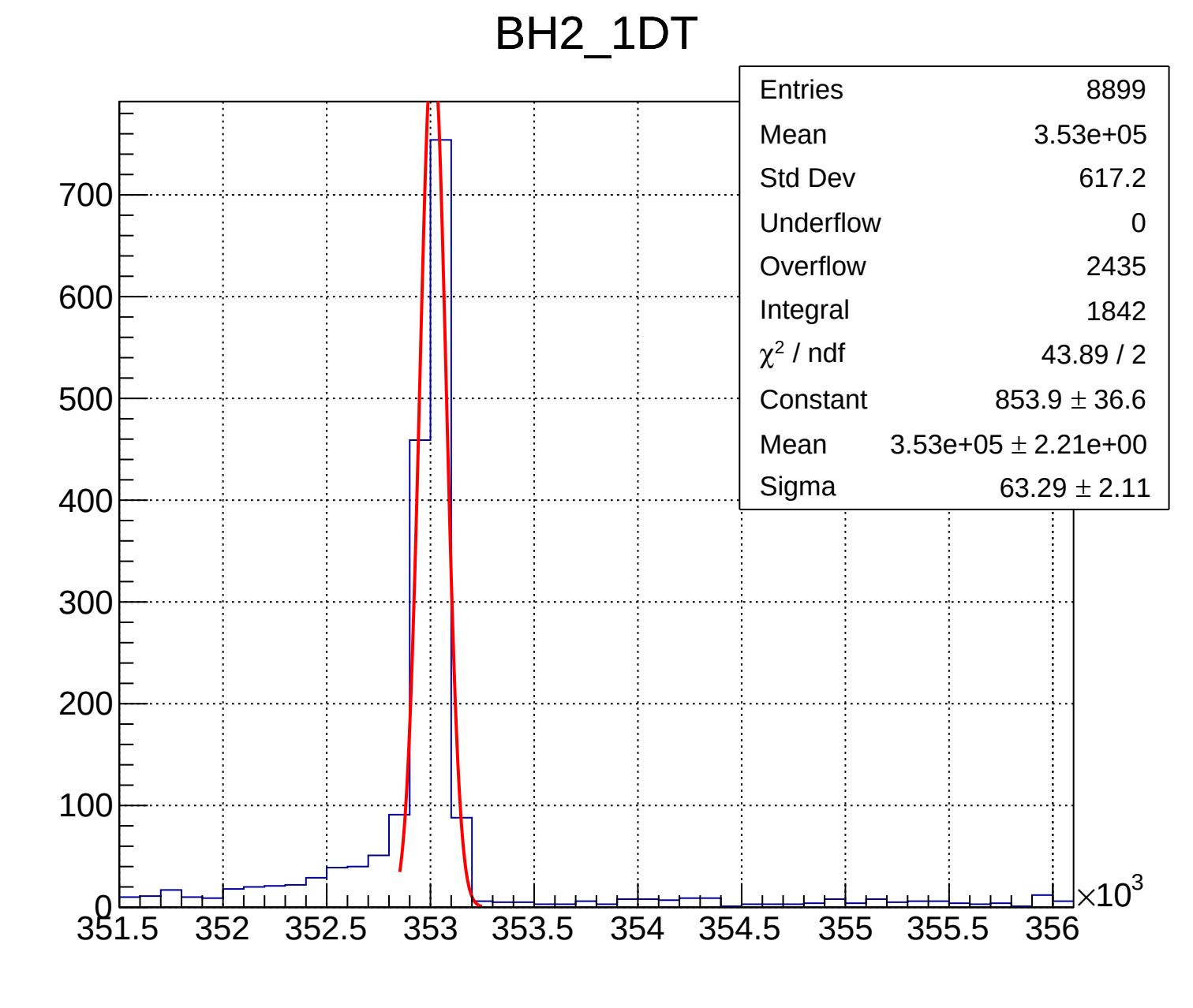
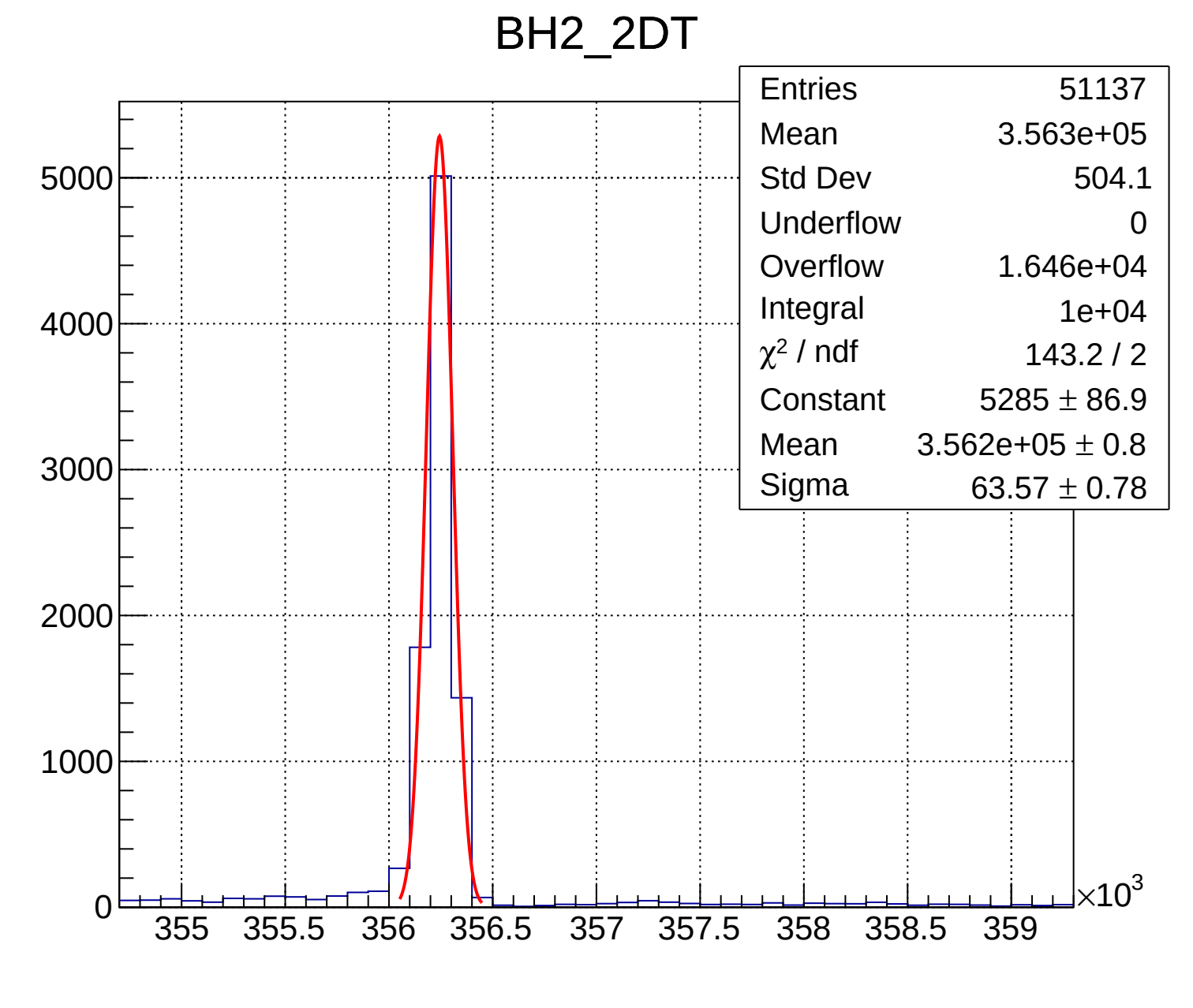
356.5
357
×10³

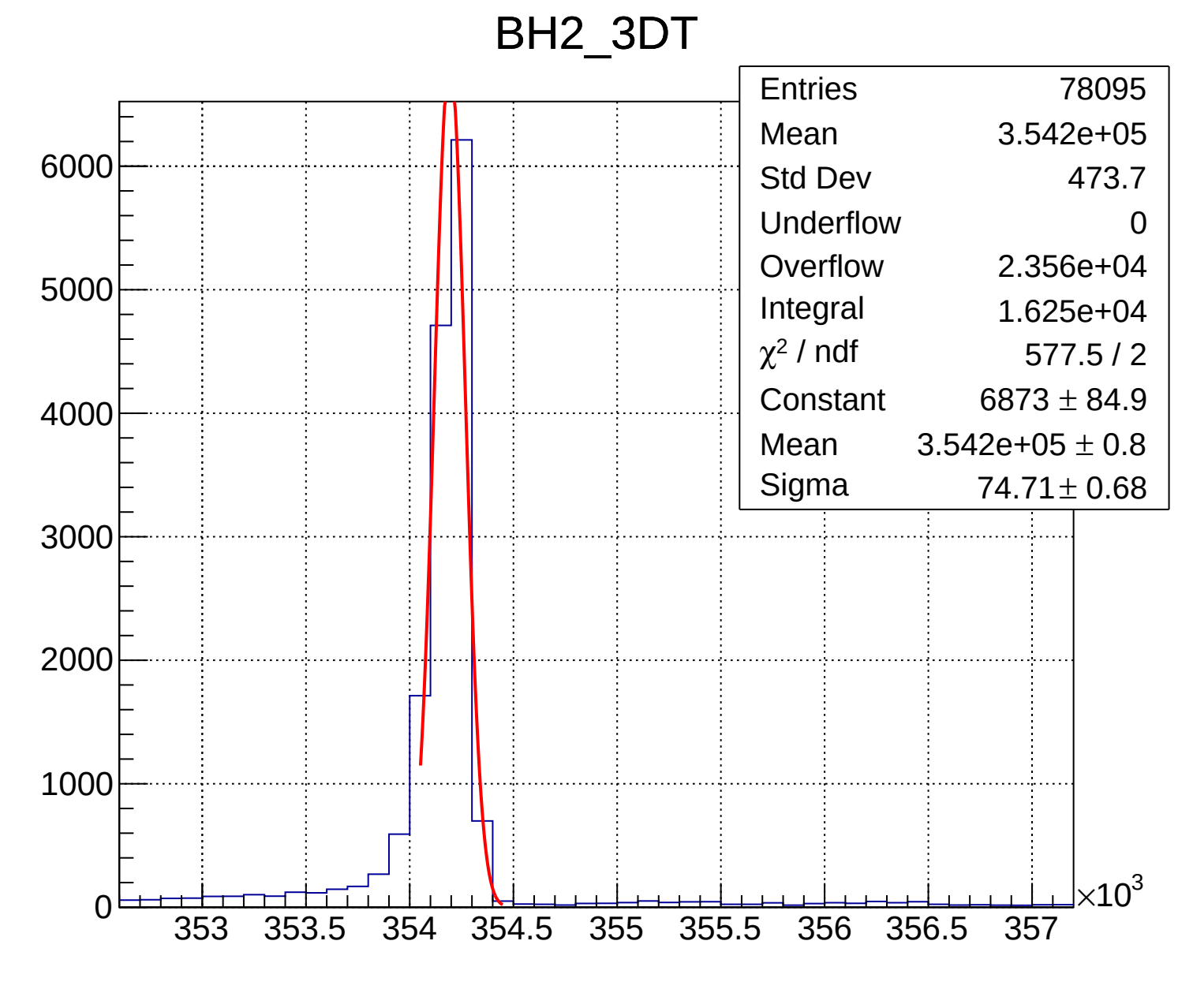

BH2_6UT
Entries 23967
Mean 3.536e+05
Std Dev 568.3
Underflow 0
Overflow 6836
Integral 4983
χ² / ndf 2.434 / 4
Constant 643.4 ± 15.6
Mean 3.536e+05 ± 7.131e+00
Sigma 252.7 ± 9.2
600
500
400
300
200
100
0
352
352.5
353
353.5
354
354.5
355
355.5
356
356.5
×10³

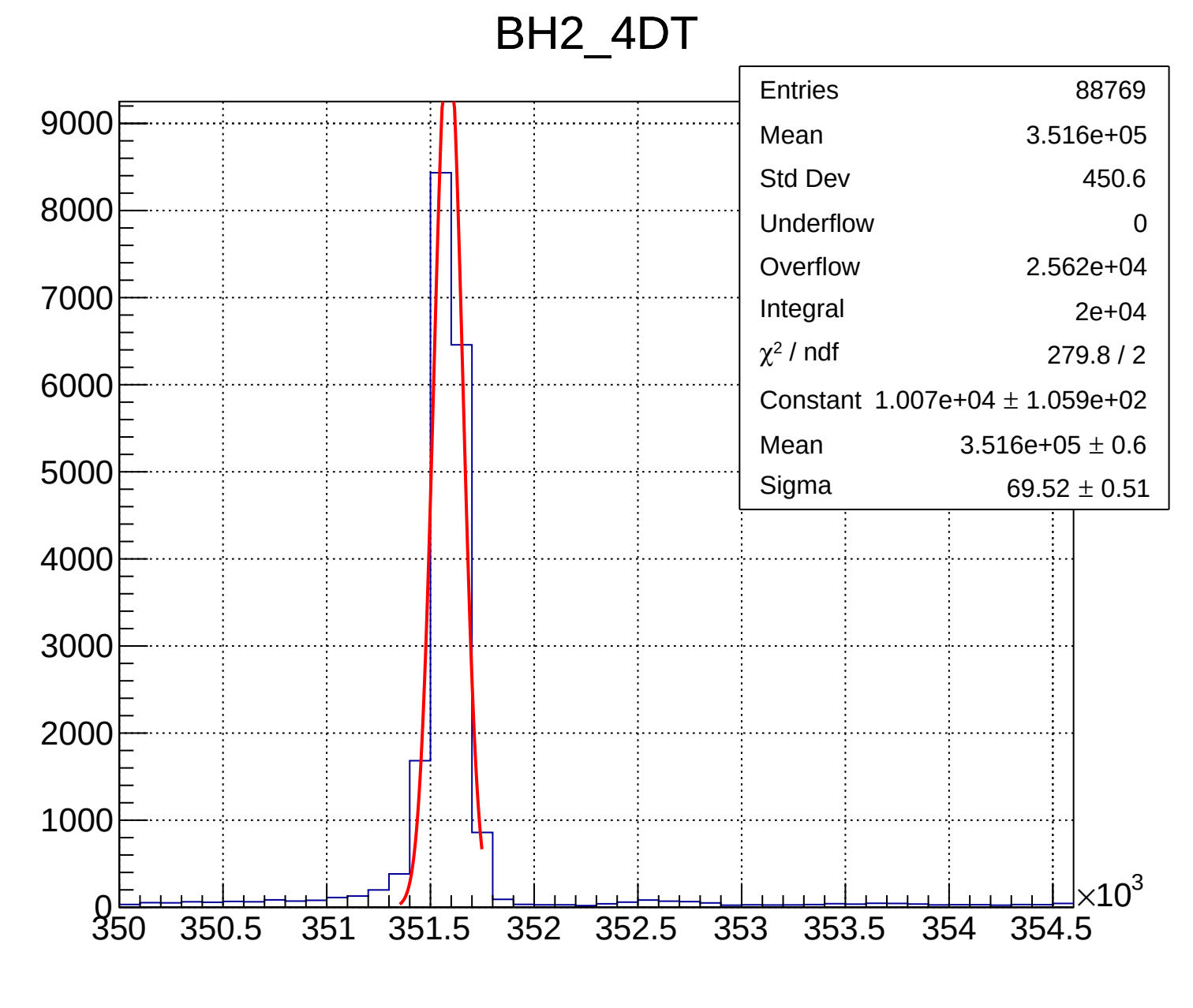

BH2_7UT
Entries 6811
Mean 3.547e+05
Std Dev 627.2
Underflow 0
Overflow 1865
Integral 1293
χ² / ndf 5.515 / 4
Constant 127.3 ± 6.5
Mean 3.547e+05 ± 3.133e+01
Sigma 320.3 ± 40.3
140
120
100
80
60
40
20
0
353.5
354
354.5
355
355.5
356
356.5
357
357.5
×10³

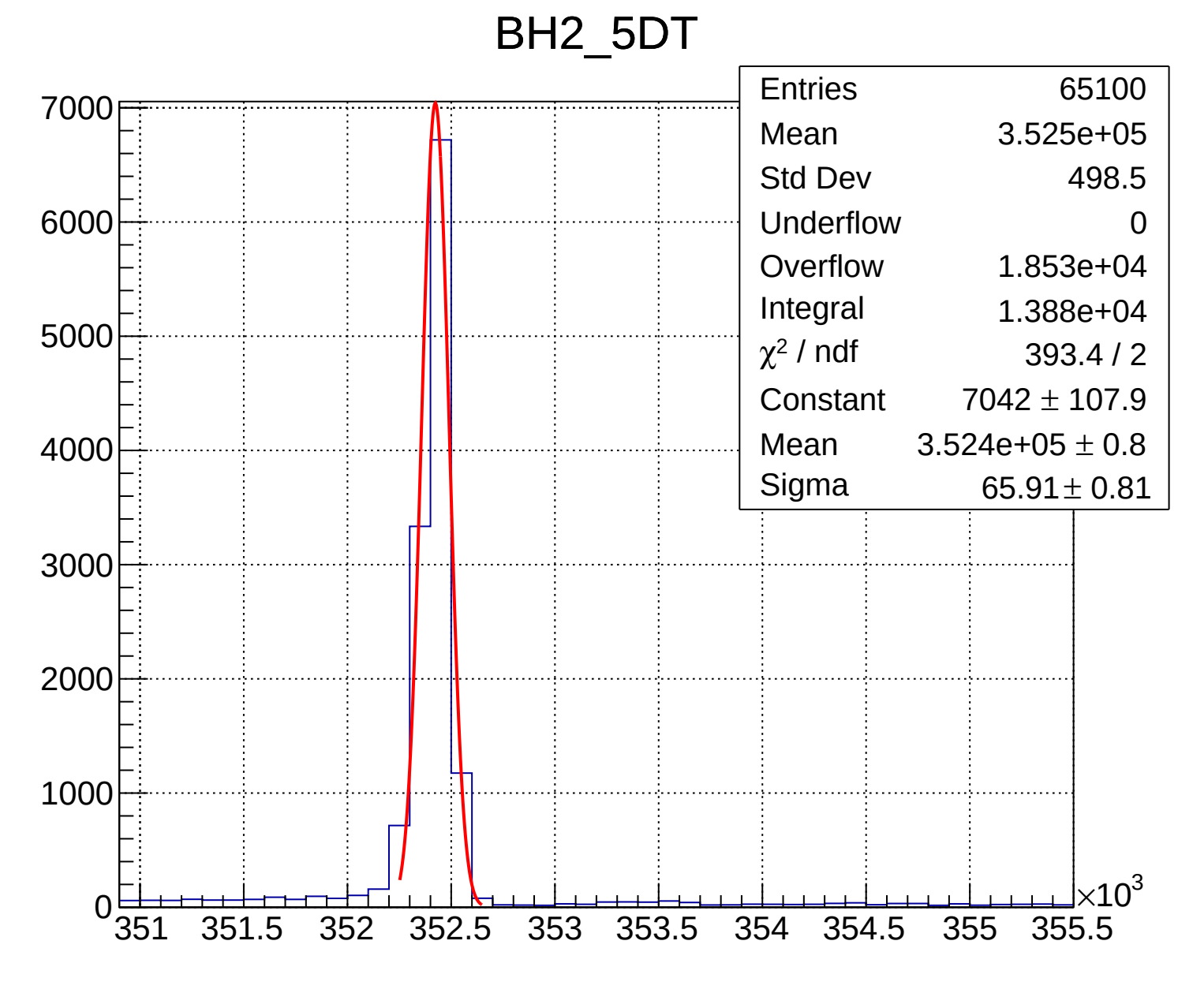

BH2_8UT
Entries 9580
Mean 3.528e+05
Std Dev 641.9
Underflow 0
Overflow 2150
Integral 1984
χ² / ndf 7.053 / 4
Constant 160.7 ± 7.6
Mean 3.528e+05 ± 2.627e+01
Sigma 392.9 ± 58.3
180
160
140
120
100
80
60
40
20
0
351.5
352
352.5
353
353.5
354
354.5
355
355.5
×10³

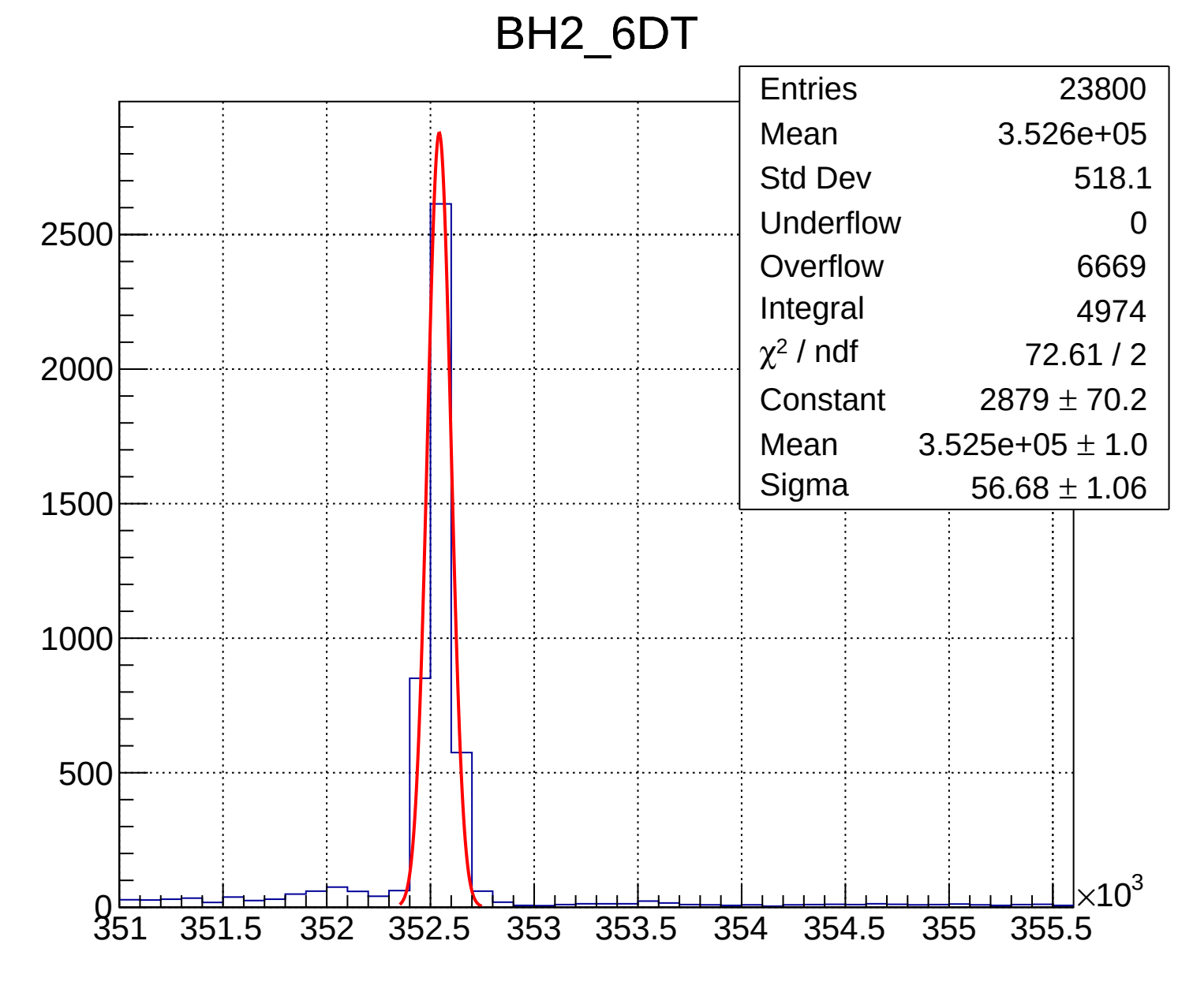

BH2_1DT
Entries 8899
Mean 3.53e+05
Std Dev 617.2
Underflow 0
Overflow 2435
Integral 1842
χ² / ndf 43.89 / 2
Constant 853.9 ± 36.6
Mean 3.53e+05 ± 2.21e+00
Sigma 63.29 ± 2.11
700
600
500
400
300
200
100
0
351.5
352
352.5
353
353.5
354
354.5
355
355.5
356
×10³

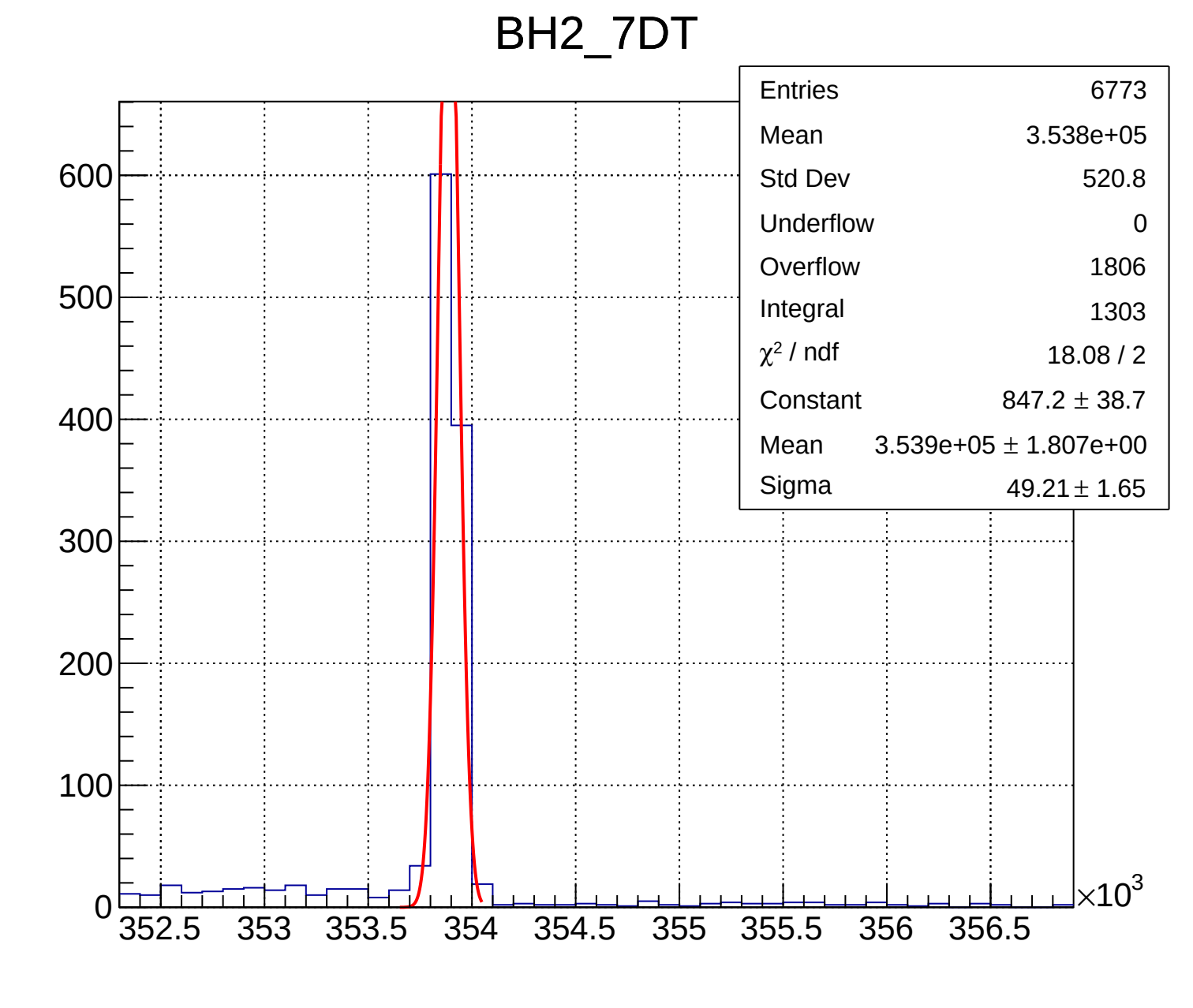

BH2_2DT
Entries 51137
Mean 3.563e+05
Std Dev 504.1
Underflow 0
Overflow 1.646e+04
Integral 1e+04
χ² / ndf 143.2 / 2
Constant 5285 ± 86.9
Mean 3.562e+05 ± 0.8
Sigma 63.57 ± 0.78
5000
4000
3000
2000
1000
0
355
355.5
356
356.5
357
357.5
358
358.5
359
×10³

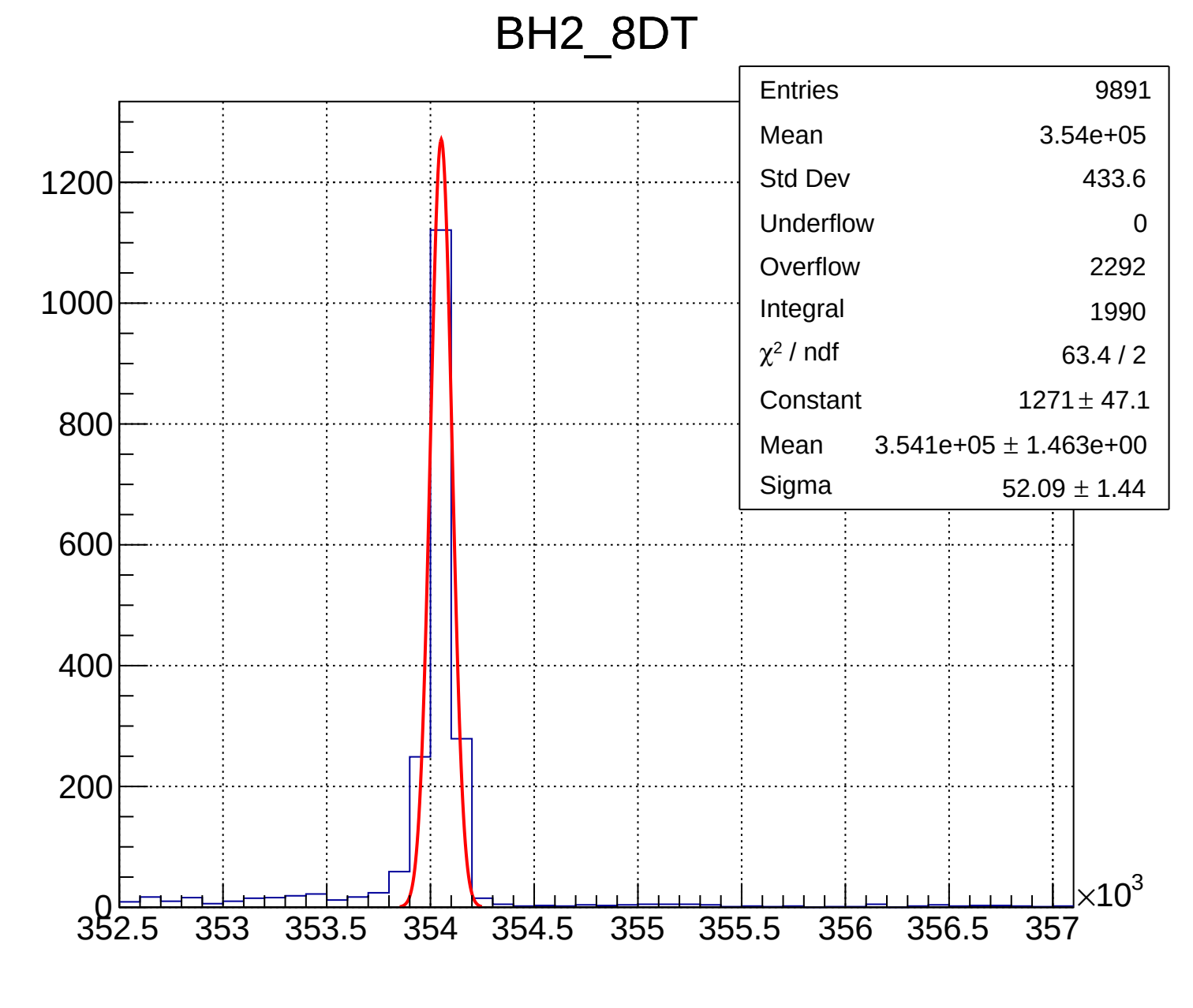

BH2_3DT
Entries 78095
Mean 3.542e+05
Std Dev 473.7
Underflow 0
Overflow 2.356e+04
Integral 1.625e+04
χ² / ndf 577.5 / 2
Constant 6873 ± 84.9
Mean 3.542e+05 ± 0.8
Sigma 74.71 ± 0.68
6000
5000
4000
3000
2000
1000
0
353
353.5
354
354.5
355
355.5
356
356.5
357
×10³

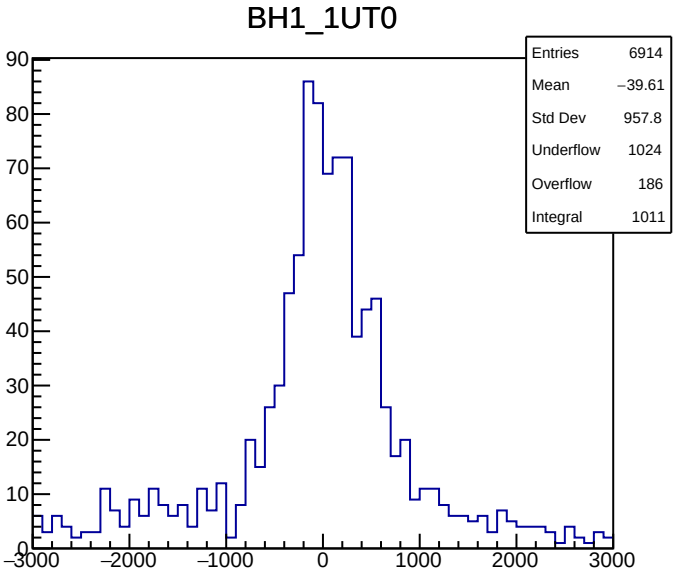

BH2_4DT
Entries 88769
Mean 3.516e+05
Std Dev 450.6
Underflow 0
Overflow 2.562e+04
Integral 2e+04
χ² / ndf 279.8 / 2
Constant 1.007e+04 ± 1.059e+02
Mean 3.516e+05 ± 0.6
Sigma 69.52 ± 0.51
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
350
350.5
351
351.5
352
352.5
353
353.5
354
354.5
×10³

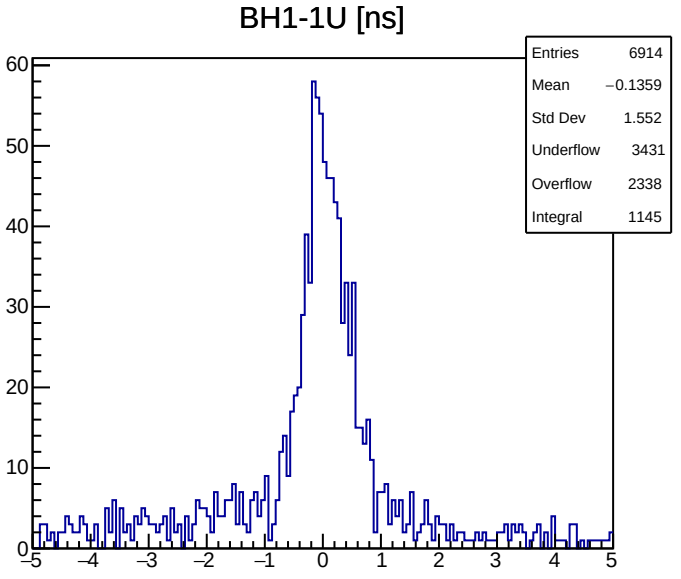

BH2_5DT
Entries 65100
Mean 3.525e+05
Std Dev 498.5
Underflow 0
Overflow 1.853e+04
Integral 1.388e+04
χ² / ndf 393.4 / 2
Constant 7042 ± 107.9
Mean 3.524e+05 ± 0.8
Sigma 65.91 ± 0.81
7000
6000
5000
4000
3000
2000
1000
0
351
351.5
352
352.5
353
353.5
354
354.5
355
355.5
×10³

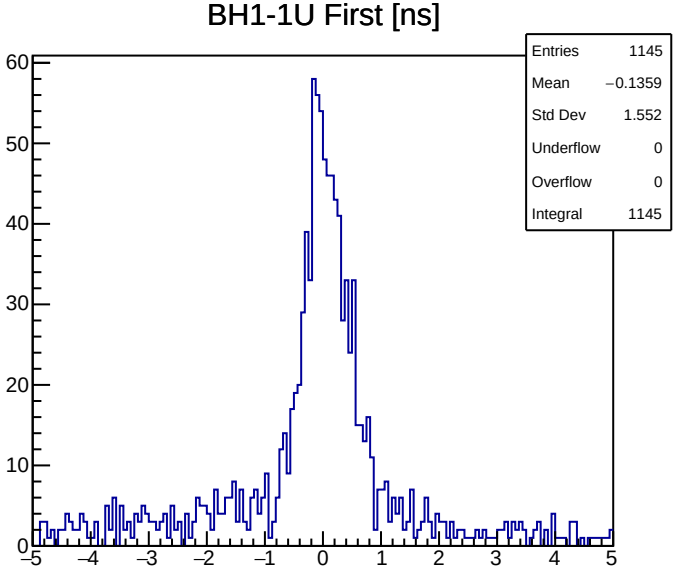

BH2_6DT
Entries 23800
Mean 3.526e+05
Std Dev 518.1
Underflow 0
Overflow 6669
Integral 4974
χ² / ndf 72.61 / 2
Constant 2879 ± 70.2
Mean 3.525e+05 ± 1.0
Sigma 56.68 ± 1.06
2500
2000
1500
1000
500
0
351
351.5
352
352.5
353
353.5
354
354.5
355
355.5
×10³

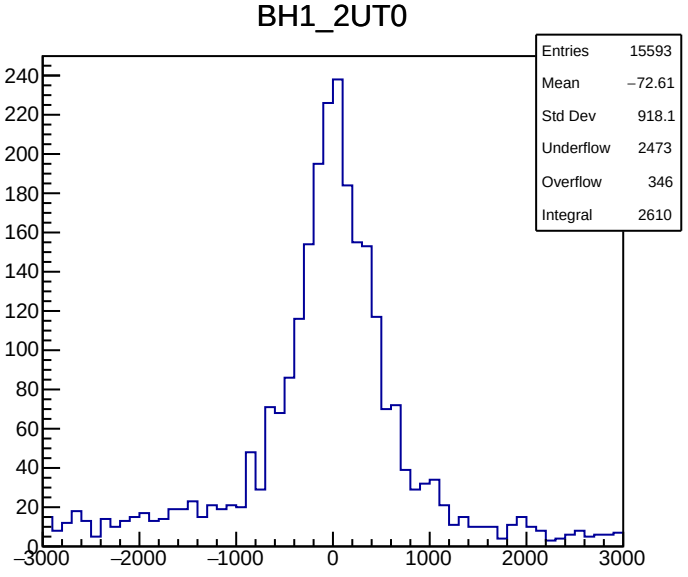

BH2_7DT
Entries 6773
Mean 3.538e+05
Std Dev 520.8
Underflow 0
Overflow 1806
Integral 1303
χ² / ndf 18.08 / 2
Constant 847.2 ± 38.7
Mean 3.539e+05 ± 1.807e+00
Sigma 49.21 ± 1.65
600
500
400
300
200
100
0
352.5
353
353.5
354
354.5
355
355.5
356
356.5
×10³

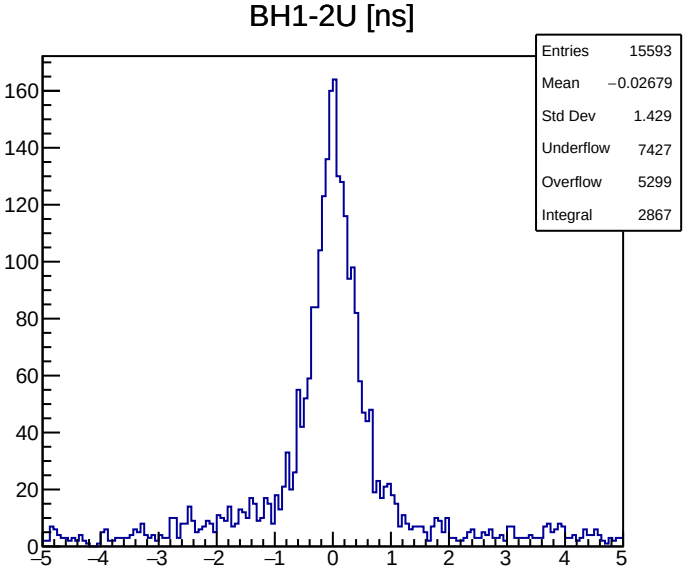

BH2_8DT
Entries 9891
Mean 3.54e+05
Std Dev 433.6
Underflow 0
Overflow 2292
Integral 1990
χ² / ndf 63.4 / 2
Constant 1271 ± 47.1
Mean 3.541e+05 ± 1.463e+00
Sigma 52.09 ± 1.44
1200
1000
800
600
400
200
0
352.5
353
353.5
354
354.5
355
355.5
356
356.5
357
×10³

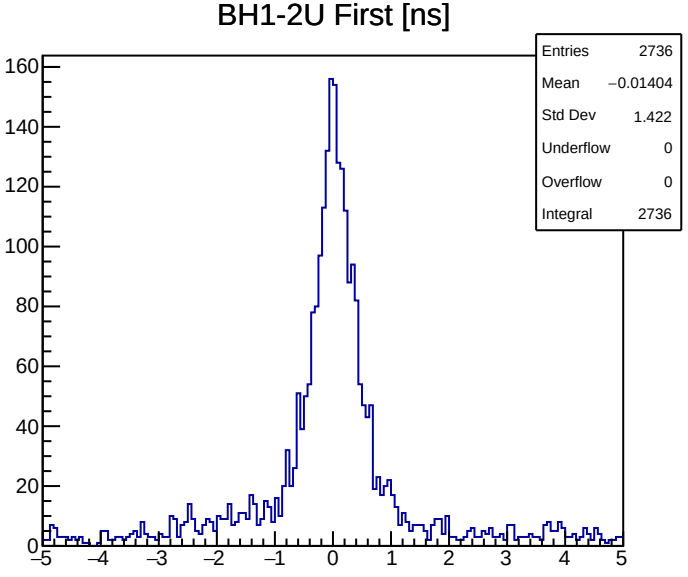

BH1_1UT0
Entries 6914
Mean −39.61
Std Dev 957.8
Underflow 1024
Overflow 186
Integral 1011
90
80
70
60
50
40
30
20
10
0
−3000
−2000
−1000
0
1000
2000
3000

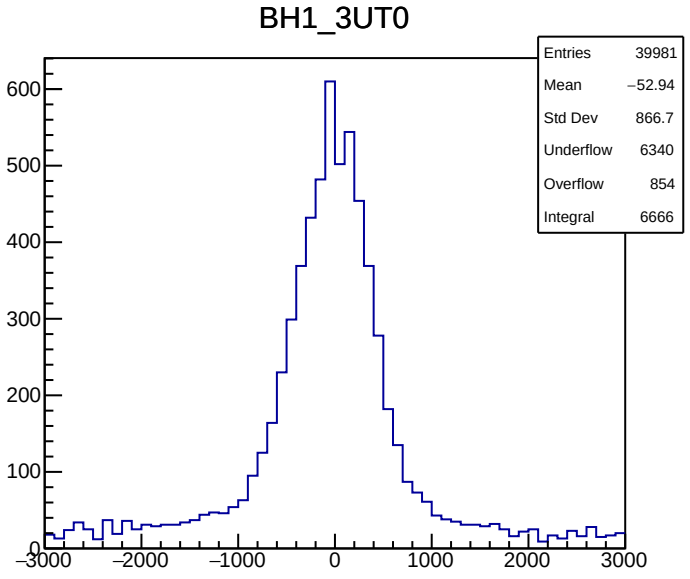

BH1-1U [ns]
Entries 6914
Mean −0.1359
Std Dev 1.552
Underflow 3431
Overflow 2338
Integral 1145
60
50
40
30
20
10
0
−5
−4
−3
−2
−1
0
1
2
3
4
5

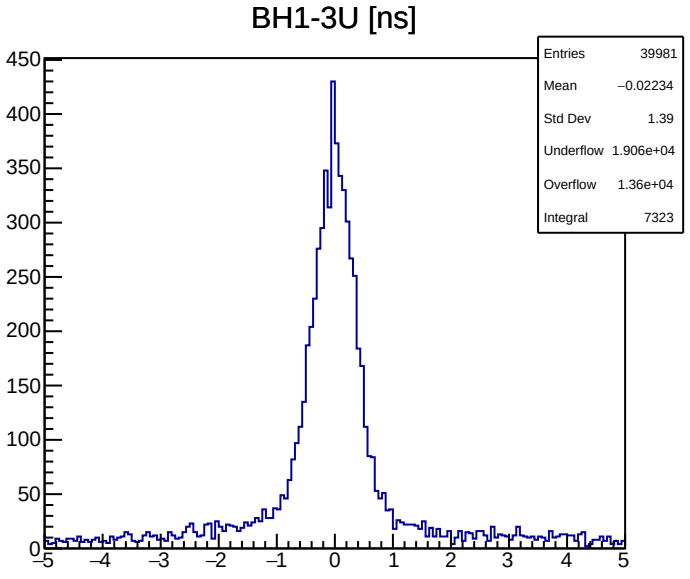

BH1-1U First [ns]
Entries 1145
Mean −0.1359
Std Dev 1.552
Underflow 0
Overflow 0
Integral 1145
60
50
40
30
20
10
0
−5
−4
−3
−2
−1
0
1
2
3
4
5

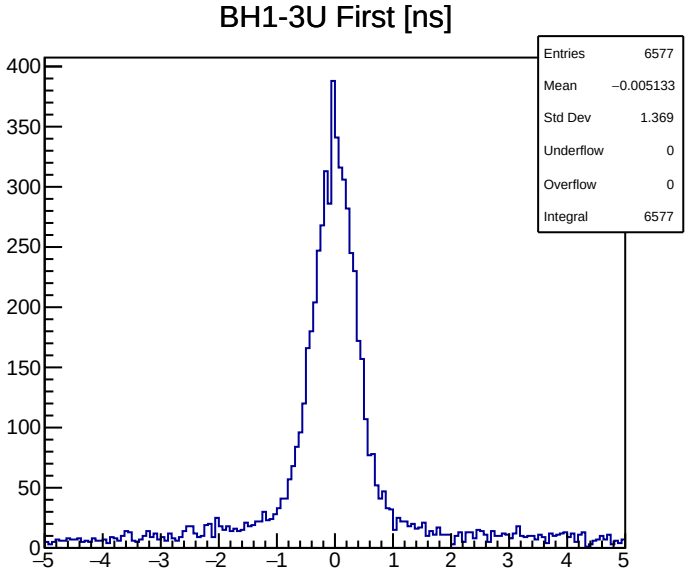

BH1_2UT0
Entries 15593
Mean −72.61
Std Dev 918.1
Underflow 2473
Overflow 346
Integral 2610
240
220
200
180
160
140
120
100
80
60
40
20
0
−3000
−2000
−1000
0
1000
2000
3000

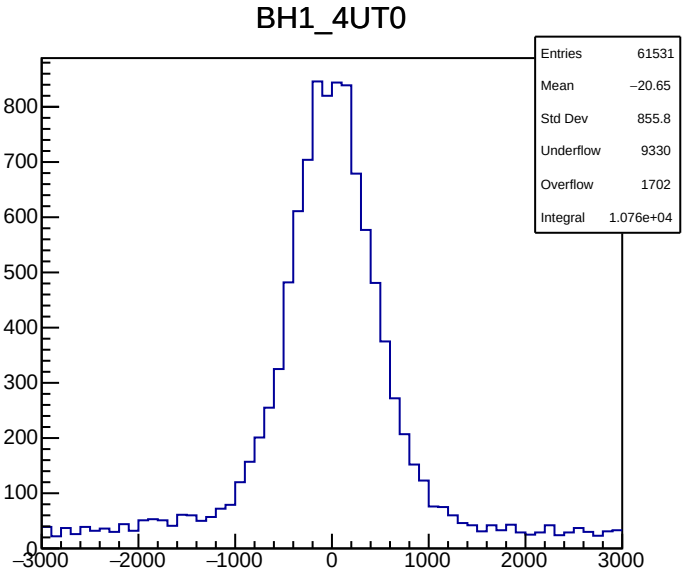

BH1-2U [ns]
Entries 15593
Mean −0.02679
Std Dev 1.429
Underflow 7427
Overflow 5299
Integral 2867
160
140
120
100
80
60
40
20
0
−5
−4
−3
−2
−1
0
1
2
3
4
5

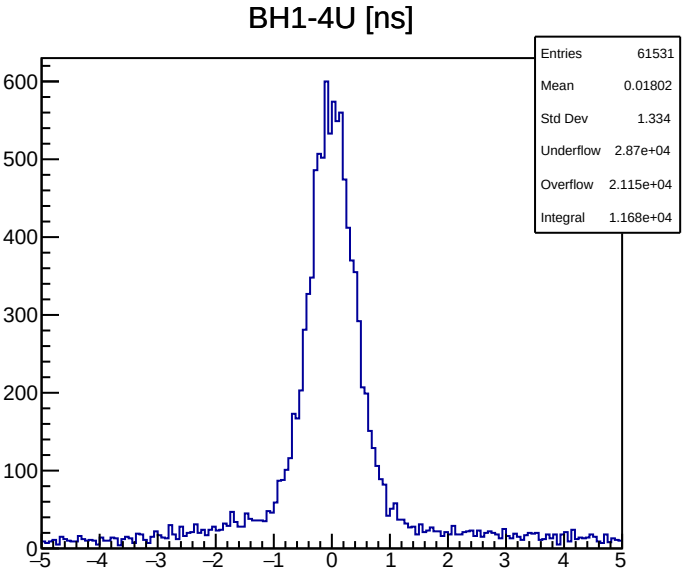

BH1-2U First [ns]
Entries 2736
Mean −0.01404
Std Dev 1.422
Underflow 0
Overflow 0
Integral 2736
160
140
120
100
80
60
40
20
0
−5
−4
−3
−2
−1
0
1
2
3
4
5

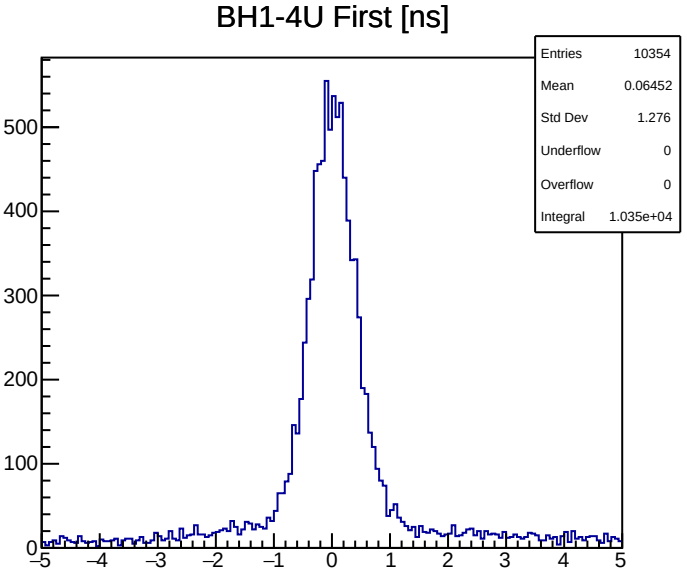

BH1_3UT0
Entries 39981
Mean −52.94
Std Dev 866.7
Underflow 6340
Overflow 854
Integral 6666
600
500
400
300
200
100
0
−3000
−2000
−1000
0
1000
2000
3000

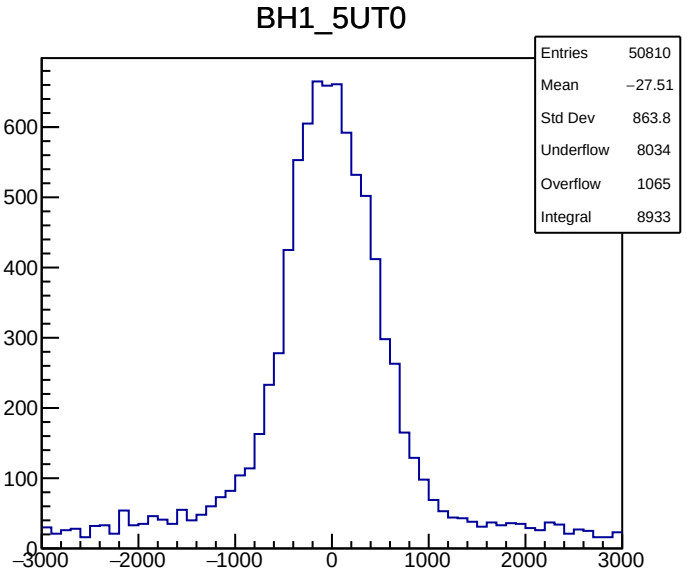

BH1-3U [ns]
Entries 39981
Mean −0.02234
Std Dev 1.39
Underflow 1.906e+04
Overflow 1.36e+04
Integral 7323
450
400
350
300
250
200
150
100
50
0
−5
−4
−3
−2
−1
0
1
2
3
4
5

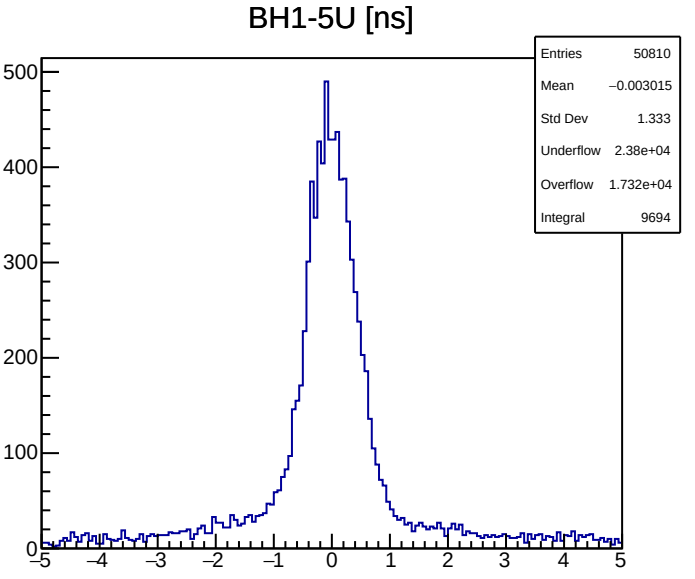

BH1-3U First [ns]
Entries 6577
Mean −0.005133
Std Dev 1.369
Underflow 0
Overflow 0
Integral 6577
400
350
300
250
200
150
100
50
0
−5
−4
−3
−2
−1
0
1
2
3
4
5

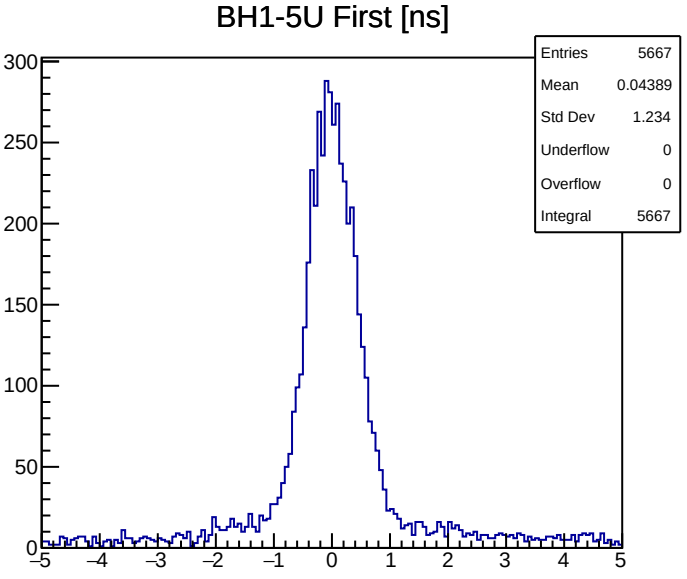

BH1_4UT0
Entries 61531
Mean −20.65
Std Dev 855.8
Underflow 9330
Overflow 1702
Integral 1.076e+04
800
700
600
500
400
300
200
100
0
−3000
−2000
−1000
0
1000
2000
3000

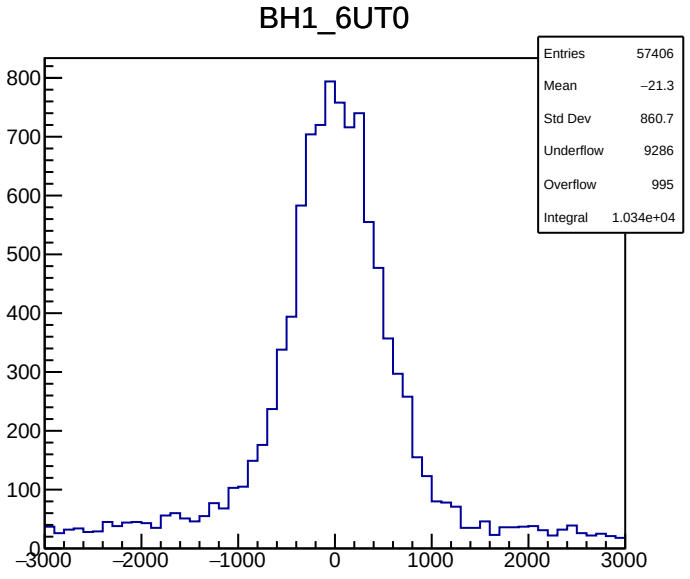

BH1-4U [ns]
Entries 61531
Mean 0.01802
Std Dev 1.334
Underflow 2.87e+04
Overflow 2.115e+04
Integral 1.168e+04
600
500
400
300
200
100
0
−5
−4
−3
−2
−1
0
1
2
3
4
5

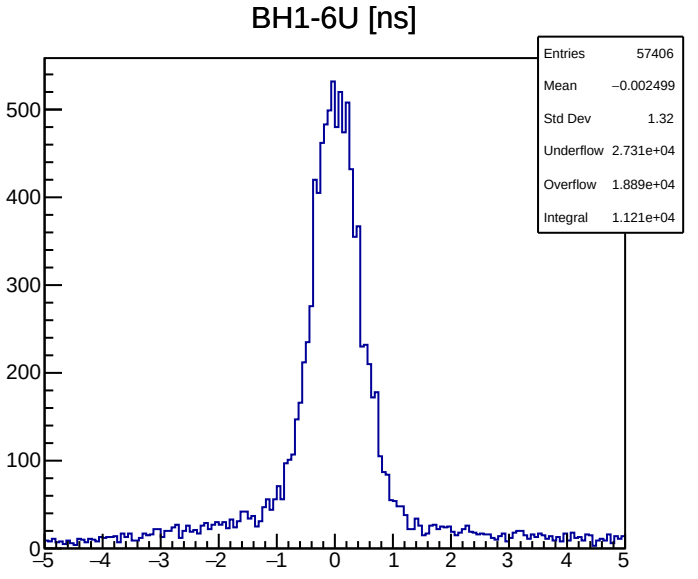

BH1-4U First [ns]
Entries 10354
Mean 0.06452
Std Dev 1.276
Underflow 0
Overflow 0
Integral 1.035e+04
500
400
300
200
100
0
−5
−4
−3
−2
−1
0
1
2
3
4
5

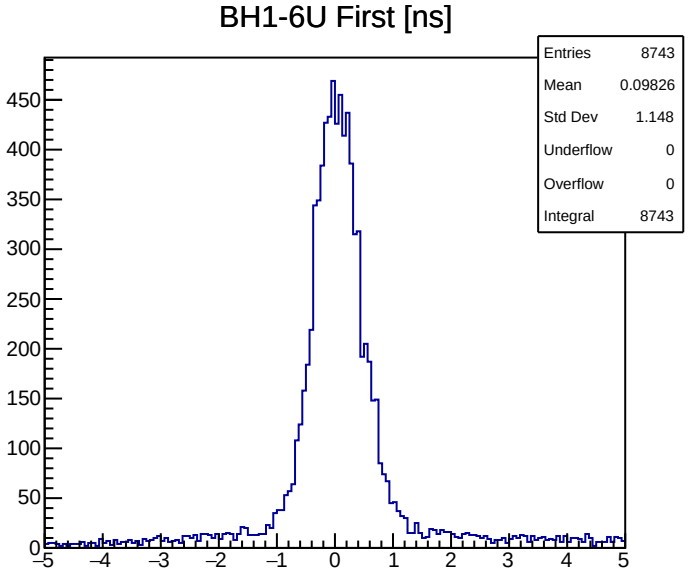

BH1_5UT0
Entries 50810
Mean −27.51
Std Dev 863.8
Underflow 8034
Overflow 1065
Integral 8933
600
500
400
300
200
100
0
−3000
−2000
−1000
0
1000
2000
3000

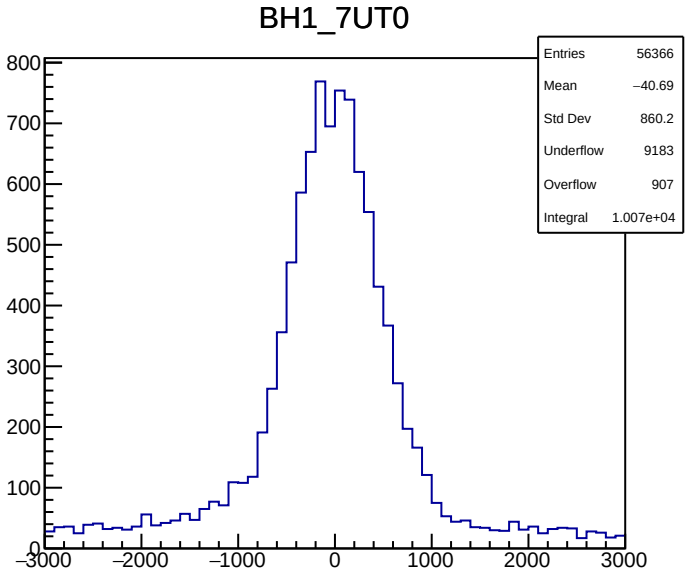

BH1-5U [ns]
Entries 50810
Mean −0.003015
Std Dev 1.333
Underflow 2.38e+04
Overflow 1.732e+04
Integral 9694
500
400
300
200
100
0
−5
−4
−3
−2
−1
0
1
2
3
4
5

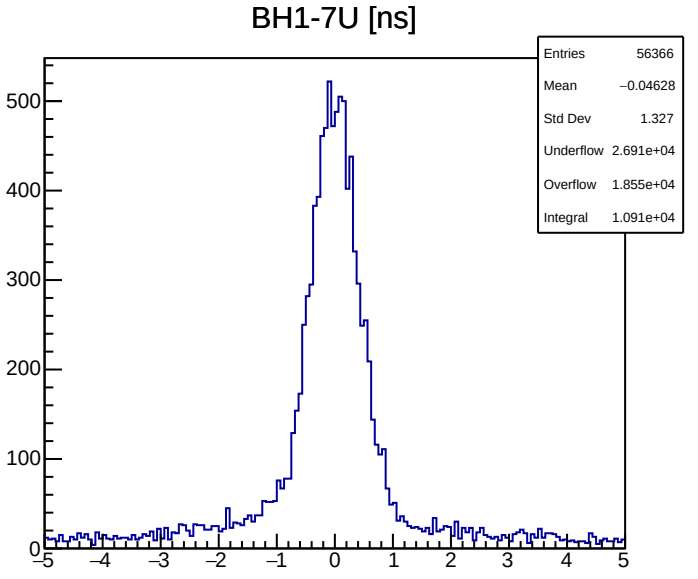

BH1-5U First [ns]
Entries 5667
Mean 0.04389
Std Dev 1.234
Underflow 0
Overflow 0
Integral 5667
300
250
200
150
100
50
0
−5
−4
−3
−2
−1
0
1
2
3
4
5

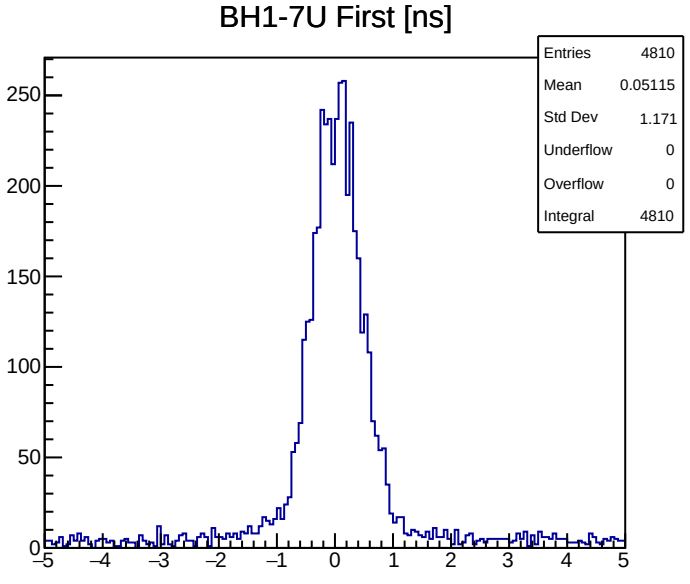

BH1_6UT0
Entries 57406
Mean −21.3
Std Dev 860.7
Underflow 9286
Overflow 995
Integral 1.034e+04
800
700
600
500
400
300
200
100
0
−3000
−2000
−1000
0
1000
2000
3000


BH1-6U [ns]
Entries 57406
Mean −0.002499
Std Dev 1.32
Underflow 2.731e+04
Overflow 1.889e+04
Integral 1.121e+04
500
400
300
200
100
0
−5
−4
−3
−2
−1
0
1
2
3
4
5


BH1-6U First [ns]
Entries 8743
Mean 0.09826
Std Dev 1.148
Underflow 0
Overflow 0
Integral 8743
450
400
350
300
250
200
150
100
50
0
−5
−4
−3
−2
−1
0
1
2
3
4
5


BH1_7UT0
Entries 56366
Mean −40.69
Std Dev 860.2
Underflow 9183
Overflow 907
Integral 1.007e+04
800
700
600
500
400
300
200
100
0
−3000
−2000
−1000
0
1000
2000
3000


BH1-7U [ns]
Entries 56366
Mean −0.04628
Std Dev 1.327
Underflow 2.691e+04
Overflow 1.855e+04
Integral 1.091e+04
500
400
300
200
100
0
−5
−4
−3
−2
−1
0
1
2
3
4
5


BH1-7U First [ns]
Entries 4810
Mean 0.05115
Std Dev 1.171
Underflow 0
Overflow 0
Integral 4810
250
200
150
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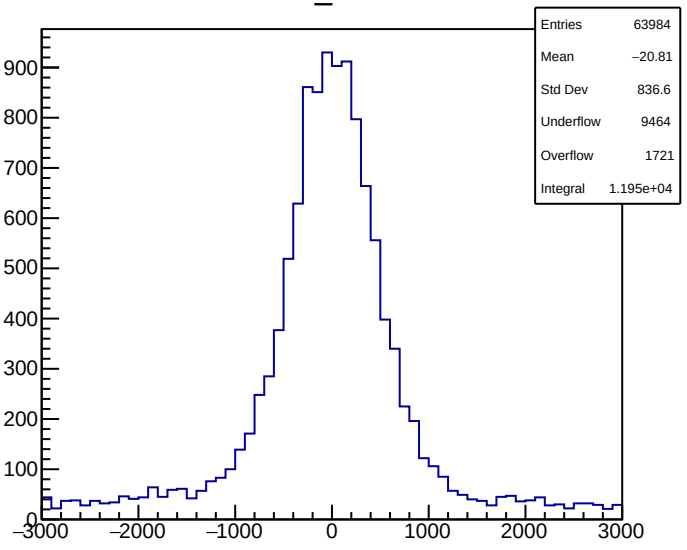
BH1_8UT0
Entries 63984
Mean −20.81
Std Dev 836.6
Underflow 9464
Overflow 1721
Integral 1.195e+04
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600
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400
300
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2000
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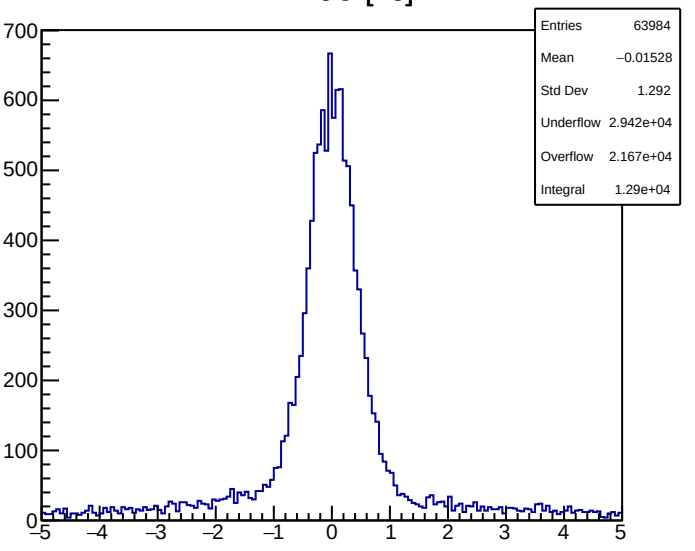
BH1-8U [ns]
Entries 63984
Mean −0.01528
Std Dev 1.292
Underflow 2.942e+04
Overflow 2.167e+04
Integral 1.29e+04
700
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−1
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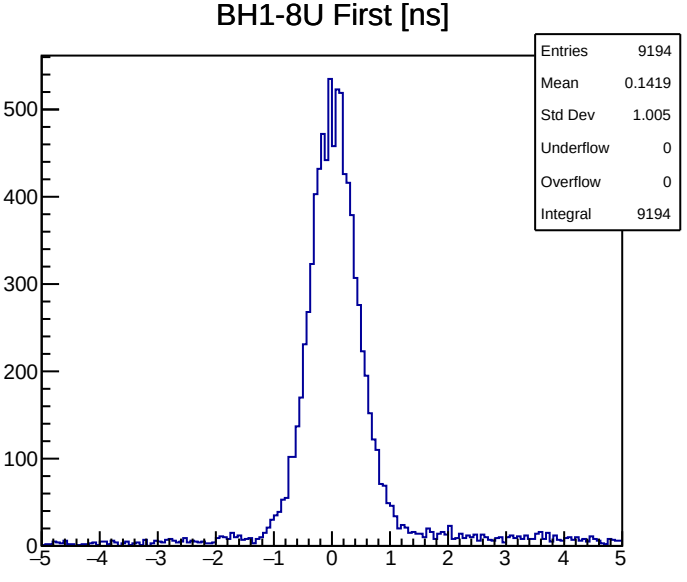
BH1-8U First [ns]
Entries 9194
Mean 0.1419
Std Dev 1.005
Underflow 0
Overflow 0
Integral 9194
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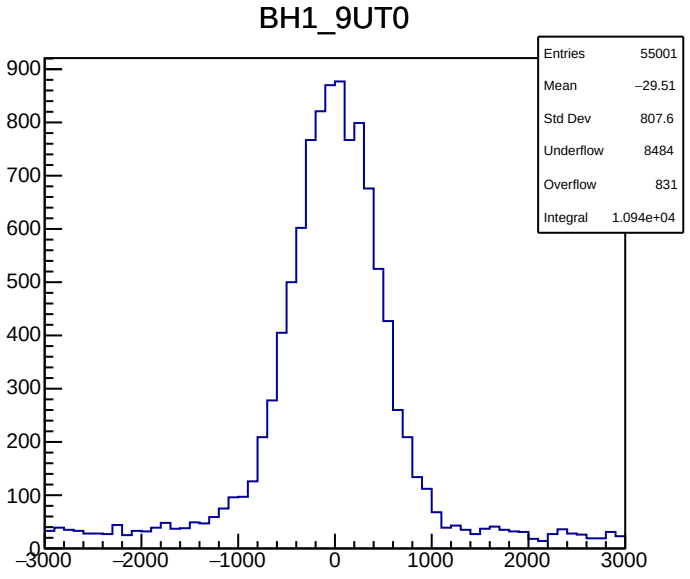
BH1_9UT0
Entries 55001
Mean −29.51
Std Dev 807.6
Underflow 8484
Overflow 831
Integral 1.094e+04
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400
300
200
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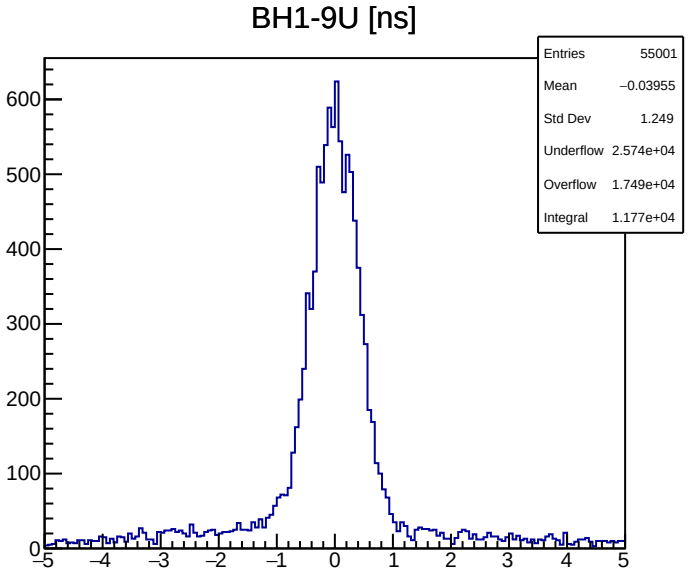
BH1-9U [ns]
Entries 55001
Mean −0.03955
Std Dev 1.249
Underflow 2.574e+04
Overflow 1.749e+04
Integral 1.177e+04
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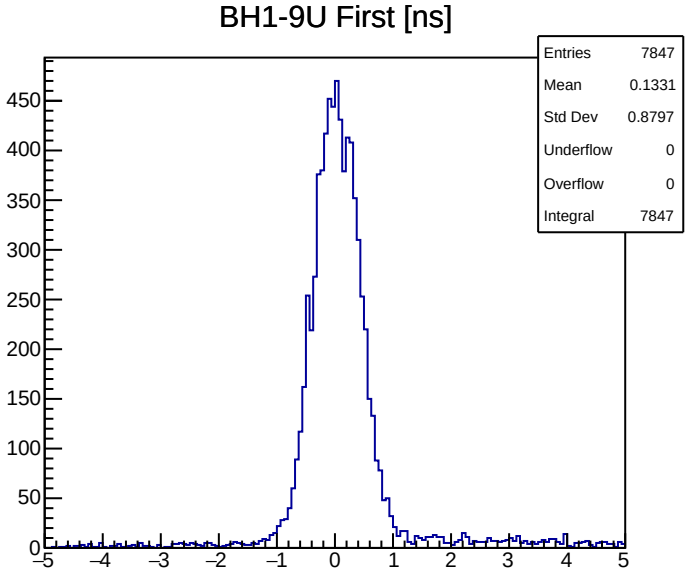
BH1-9U First [ns]
Entries 7847
Mean 0.1331
Std Dev 0.8797
Underflow 0
Overflow 0
Integral 7847
450
400
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100
50
0
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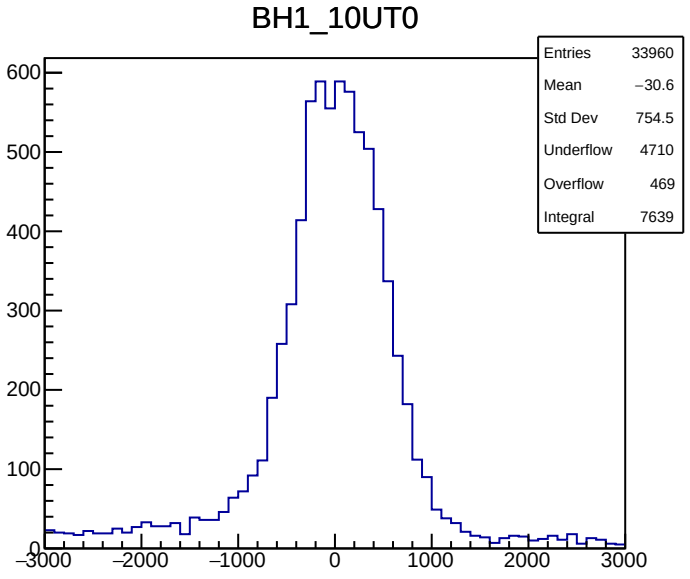
BH1_10UT0
Entries 33960
Mean −30.6
Std Dev 754.5
Underflow 4710
Overflow 469
Integral 7639
600
500
400
300
200
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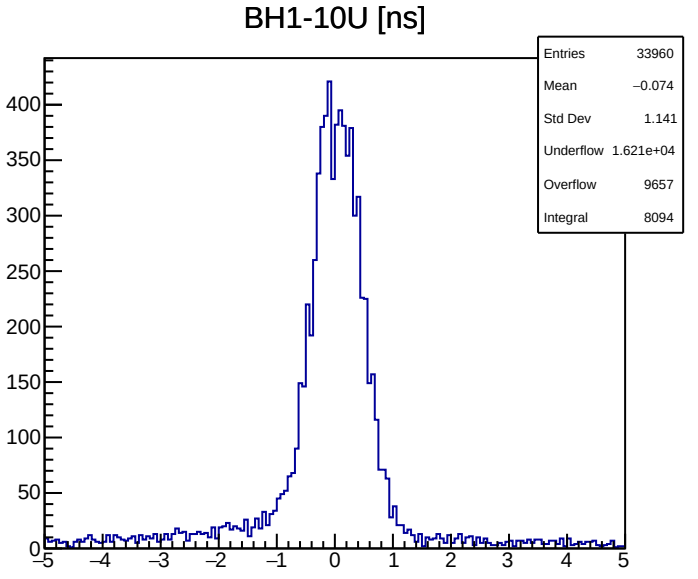
BH1-10U [ns]
Entries 33960
Mean −0.074
Std Dev 1.141
Underflow 1.621e+04
Overflow 9657
Integral 8094
400
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4
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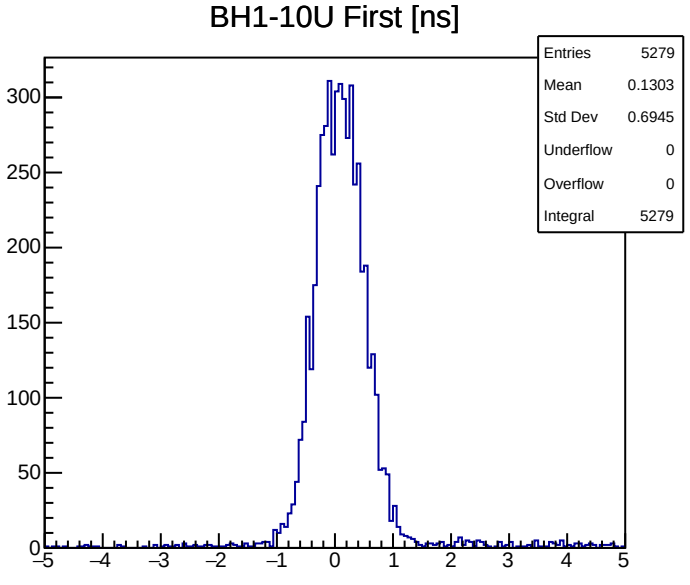
BH1-10U First [ns]
Entries 5279
Mean 0.1303
Std Dev 0.6945
Underflow 0
Overflow 0
Integral 5279
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100
50
0
−5
−4
−3
−2
−1
0
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2
3
4
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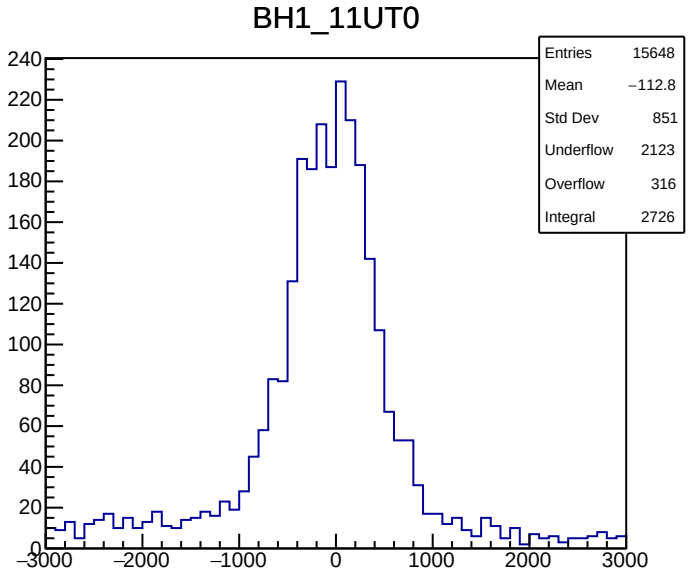
BH1_11UT0
Entries 15648
Mean −112.8
Std Dev 851
Underflow 2123
Overflow 316
Integral 2726
240
220
200
180
160
140
120
100
80
60
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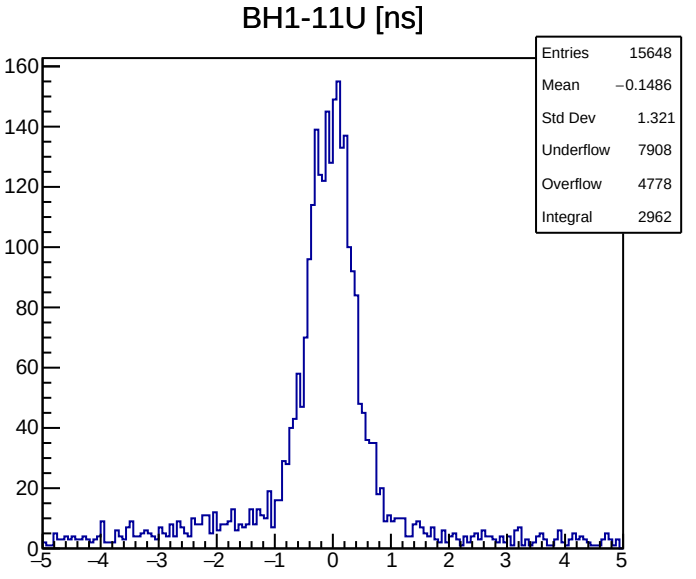
BH1-11U [ns]
Entries 15648
Mean −0.1486
Std Dev 1.321
Underflow 7908
Overflow 4778
Integral 2962
160
140
120
100
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60
40
20
0
−5
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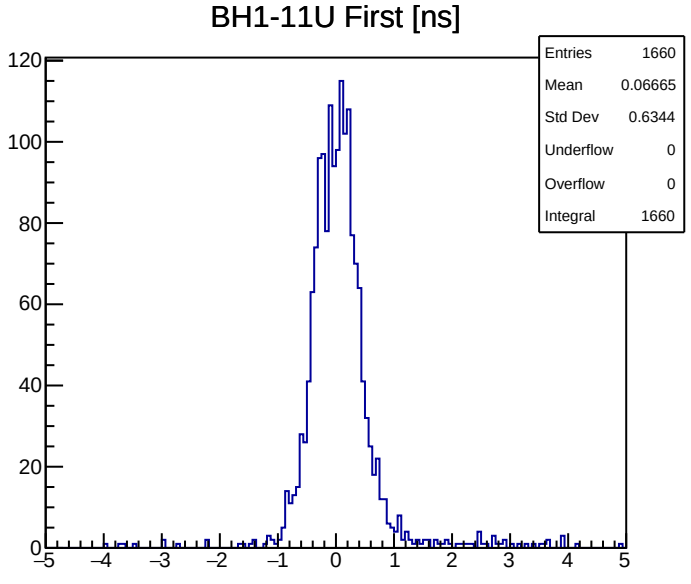
BH1-11U First [ns]
Entries 1660
Mean 0.06665
Std Dev 0.6344
Underflow 0
Overflow 0
Integral 1660
120
100
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60
40
20
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−5
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−2
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4
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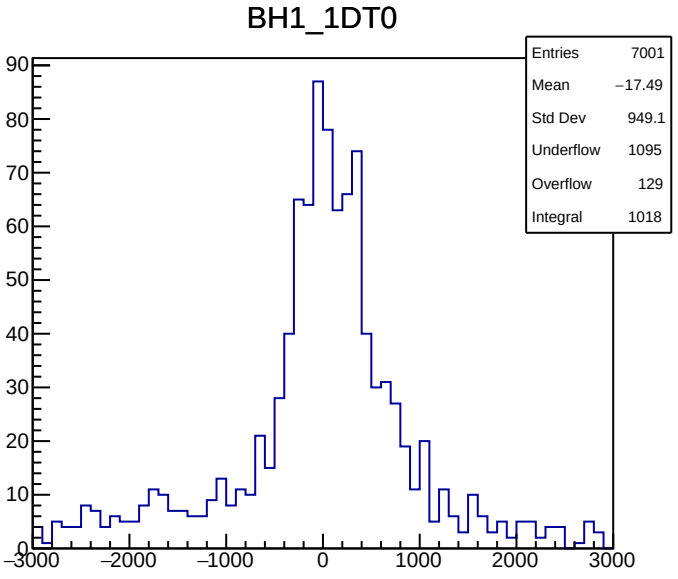
BH1_1DT0
Entries 7001
Mean −17.49
Std Dev 949.1
Underflow 1095
Overflow 129
Integral 1018
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70
60
50
40
30
20
10
0
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2000
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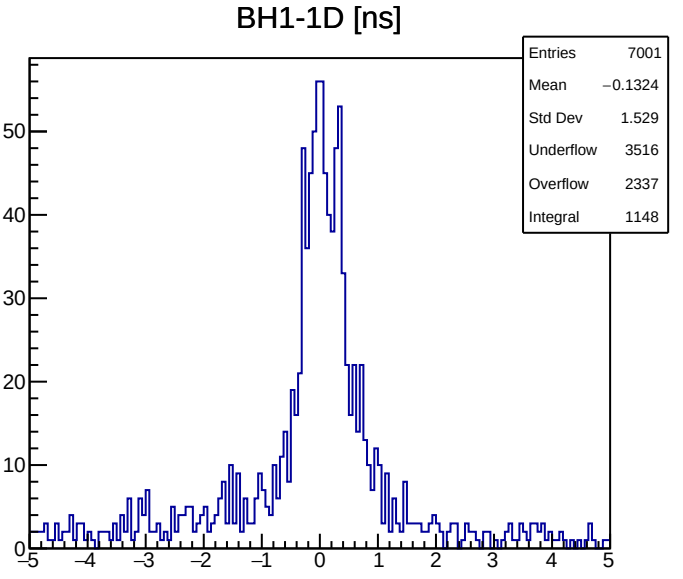
BH1-1D [ns]
Entries 7001
Mean −0.1324
Std Dev 1.529
Underflow 3516
Overflow 2337
Integral 1148
50
40
30
20
10
0
−5
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−2
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4
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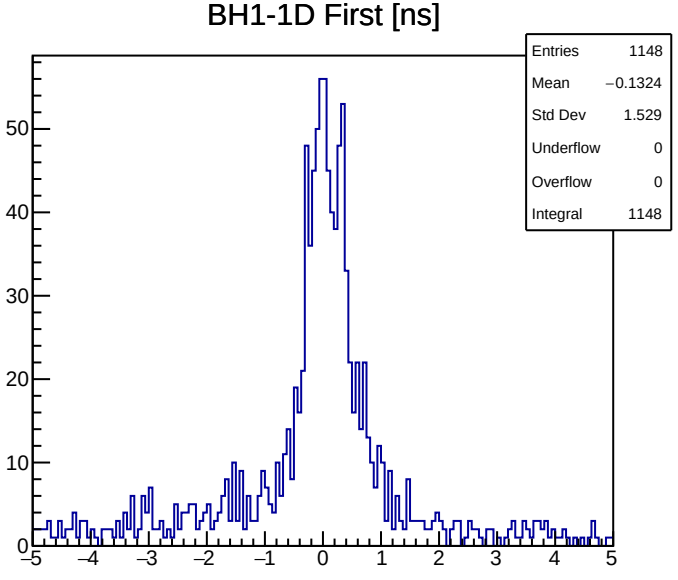
BH1-1D First [ns]
Entries 1148
Mean −0.1324
Std Dev 1.529
Underflow 0
Overflow 0
Integral 1148
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30
20
10
0
−5
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−2
−1
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3
4
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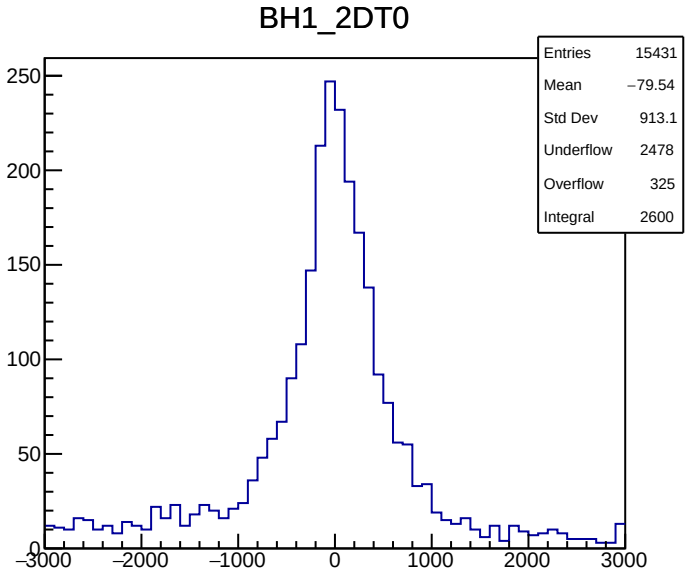
BH1_2DT0
Entries 15431
Mean −79.54
Std Dev 913.1
Underflow 2478
Overflow 325
Integral 2600
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200
150
100
50
0
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−1000
0
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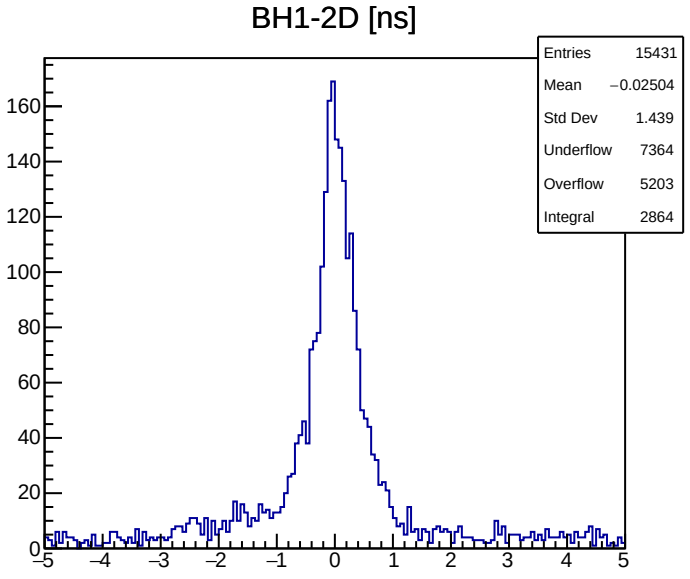
2000
3000


BH1-2D [ns]
Entries 15431
Mean −0.02504
Std Dev 1.439
Underflow 7364
Overflow 5203
Integral 2864
160
140
120
100
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20
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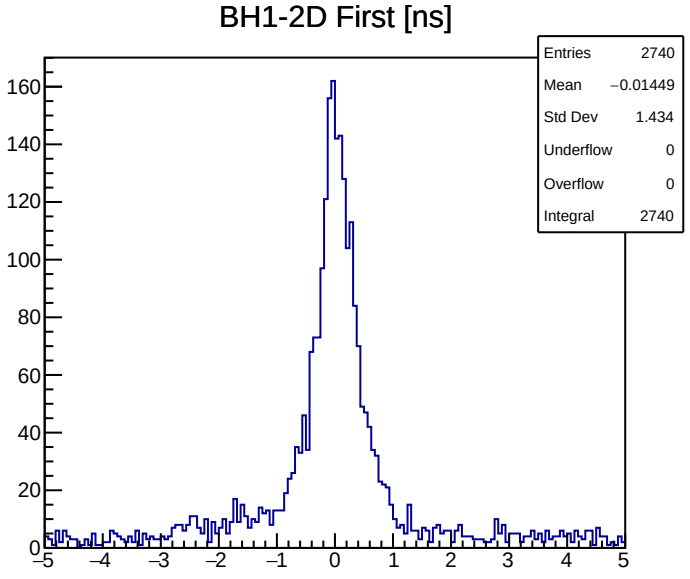
BH1-2D First [ns]
Entries 2740
Mean −0.01449
Std Dev 1.434
Underflow 0
Overflow 0
Integral 2740
160
140
120
100
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60
40
20
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−5
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4
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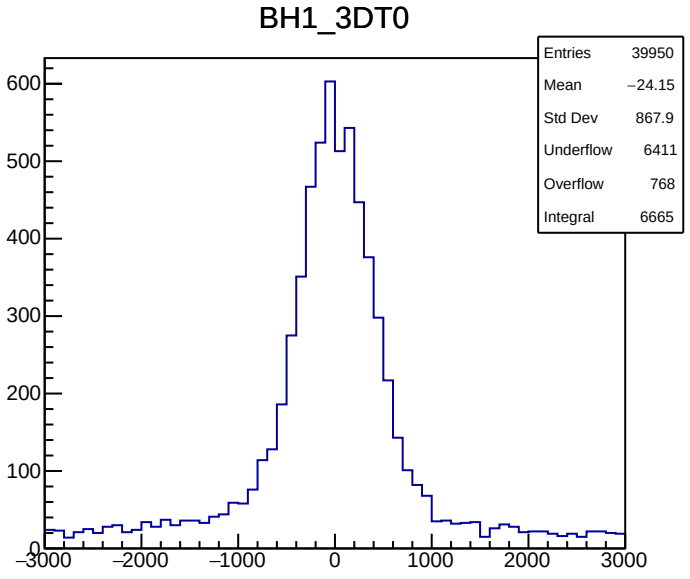
BH1_3DT0
Entries 39950
Mean −24.15
Std Dev 867.9
Underflow 6411
Overflow 768
Integral 6665
600
500
400
300
200
100
0
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−2000
−1000
0
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2000
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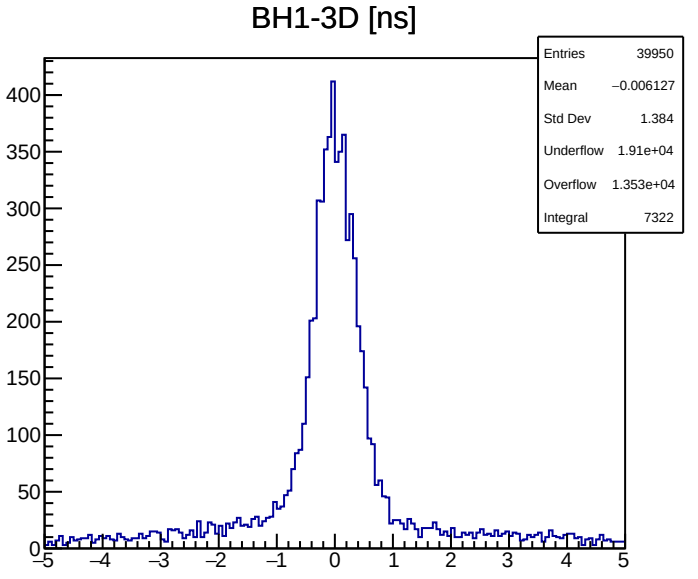
BH1-3D [ns]
Entries 39950
Mean −0.006127
Std Dev 1.384
Underflow 1.91e+04
Overflow 1.353e+04
Integral 7322
400
350
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100
50
0
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4
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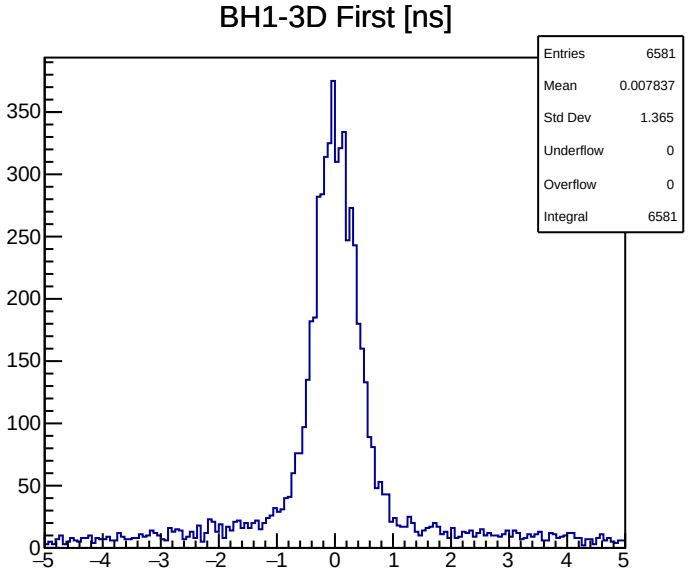
BH1-3D First [ns]
Entries 6581
Mean 0.007837
Std Dev 1.365
Underflow 0
Overflow 0
Integral 6581
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50
0
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−2
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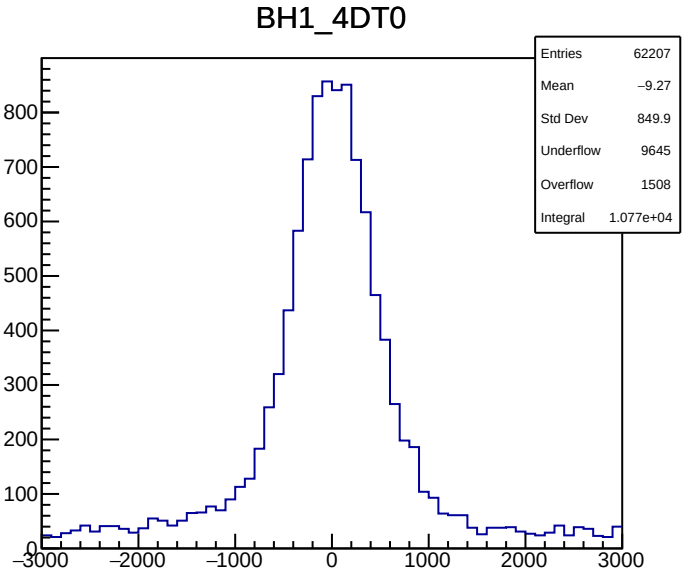
4
5


BH1_4DT0
Entries 62207
Mean −9.27
Std Dev 849.9
Underflow 9645
Overflow 1508
Integral 1.077e+04
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700
600
500
400
300
200
100
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0
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2000
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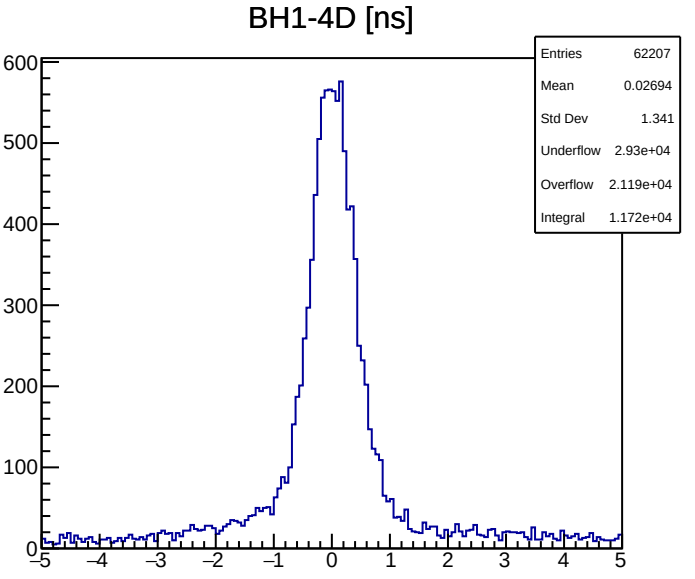
BH1-4D [ns]
Entries 62207
Mean 0.02694
Std Dev 1.341
Underflow 2.93e+04
Overflow 2.119e+04
Integral 1.172e+04
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300
200
100
0
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−3
−2
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4
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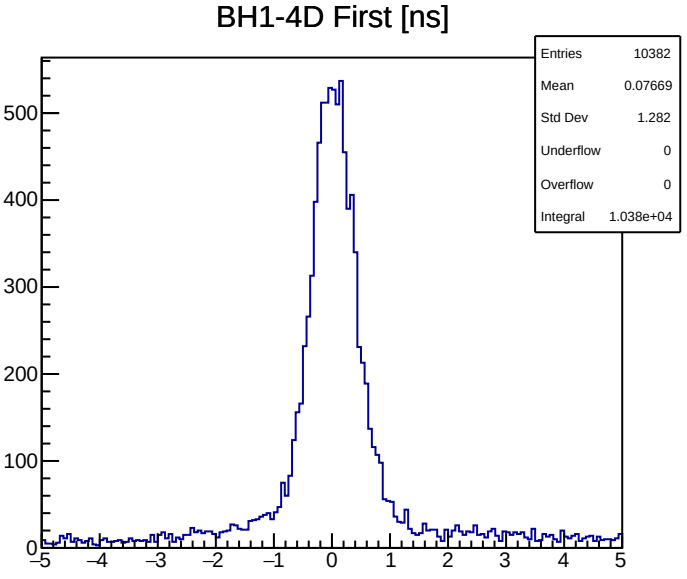
BH1-4D First [ns]
Entries 10382
Mean 0.07669
Std Dev 1.282
Underflow 0
Overflow 0
Integral 1.038e+04
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300
200
100
0
−5
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−3
−2
−1
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4
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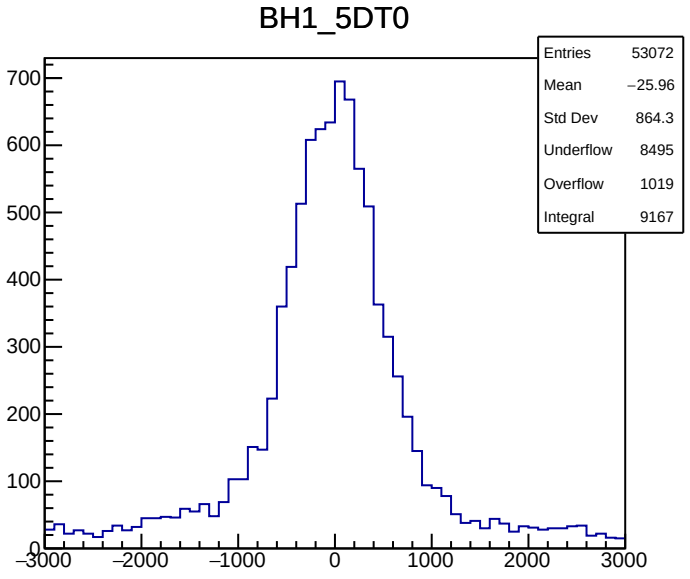
BH1_5DT0
Entries 53072
Mean −25.96
Std Dev 864.3
Underflow 8495
Overflow 1019
Integral 9167
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600
500
400
300
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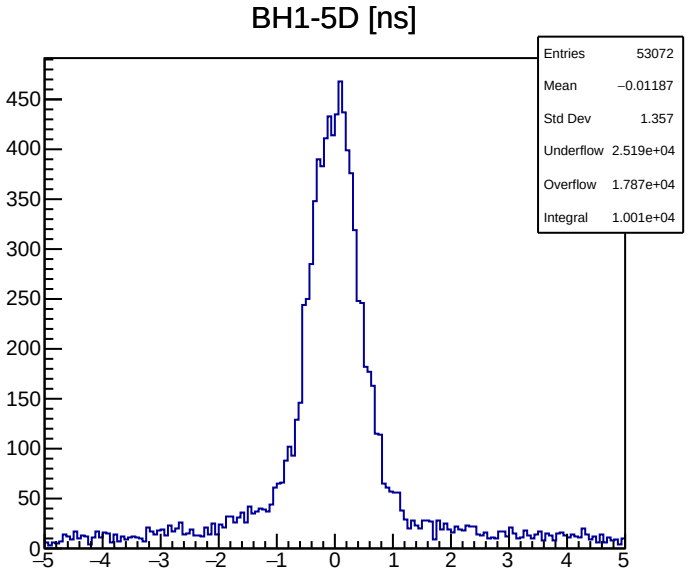
2000
3000


BH1-5D [ns]
Entries 53072
Mean −0.01187
Std Dev 1.357
Underflow 2.519e+04
Overflow 1.787e+04
Integral 1.001e+04
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400
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4
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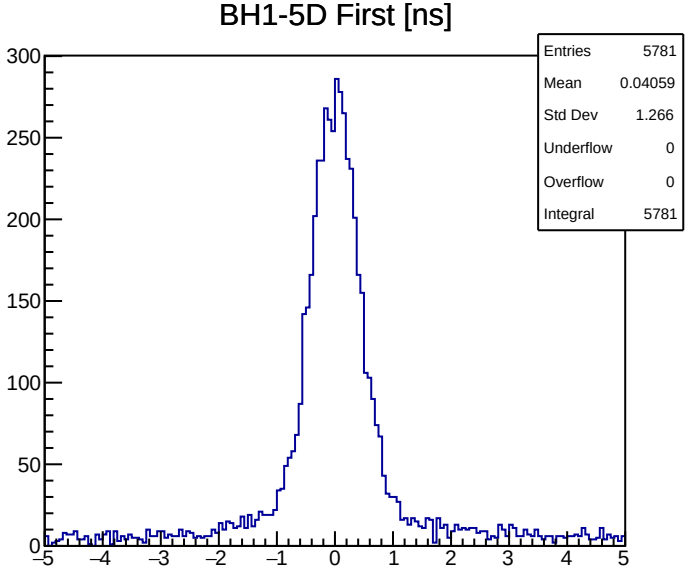
BH1-5D First [ns]
Entries 5781
Mean 0.04059
Std Dev 1.266
Underflow 0
Overflow 0
Integral 5781
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50
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4
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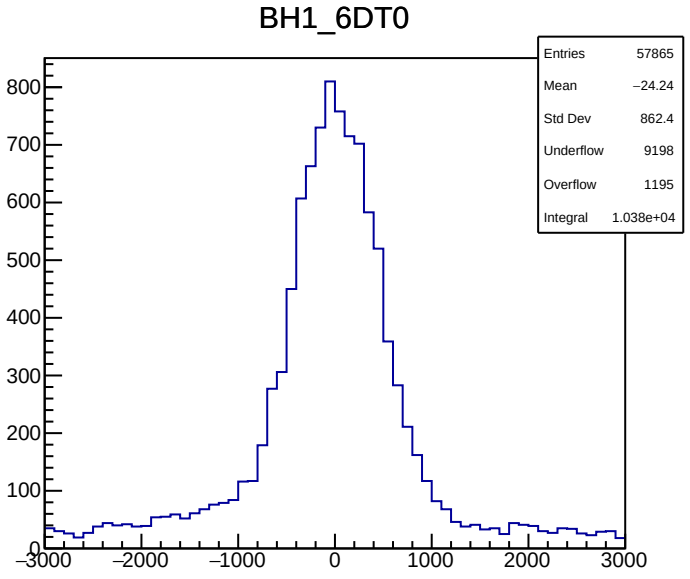
BH1_6DT0
Entries 57865
Mean −24.24
Std Dev 862.4
Underflow 9198
Overflow 1195
Integral 1.038e+04
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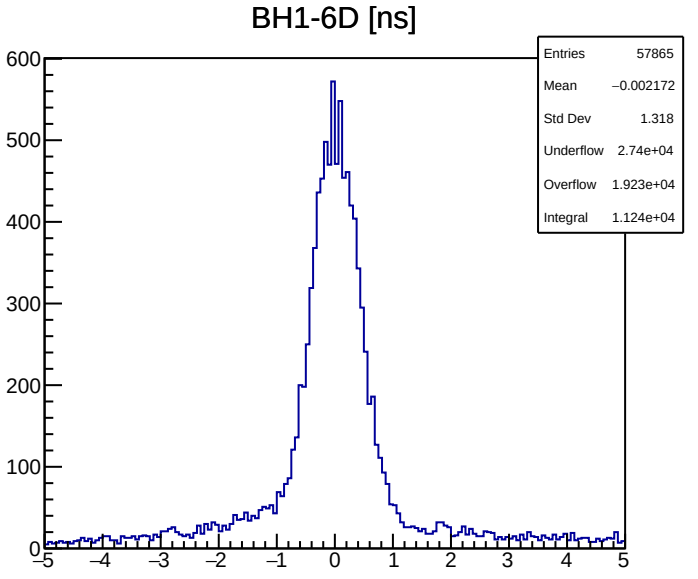
BH1-6D [ns]
Entries 57865
Mean −0.002172
Std Dev 1.318
Underflow 2.74e+04
Overflow 1.923e+04
Integral 1.124e+04
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200
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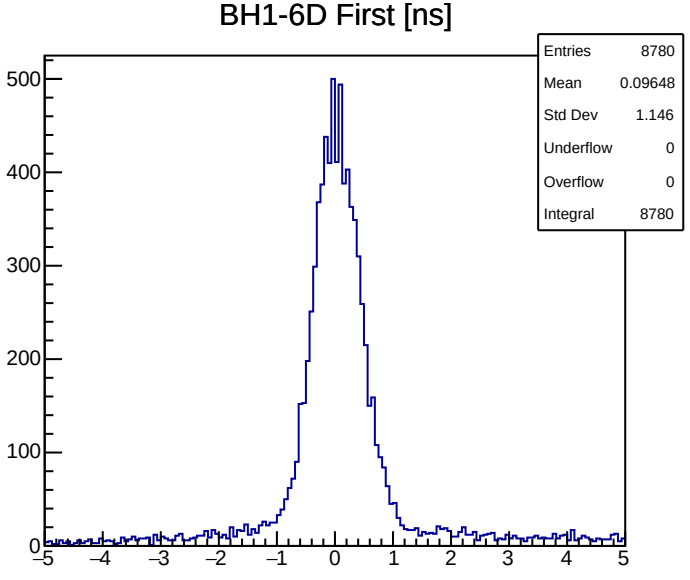
BH1-6D First [ns]
Entries 8780
Mean 0.09648
Std Dev 1.146
Underflow 0
Overflow 0
Integral 8780
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200
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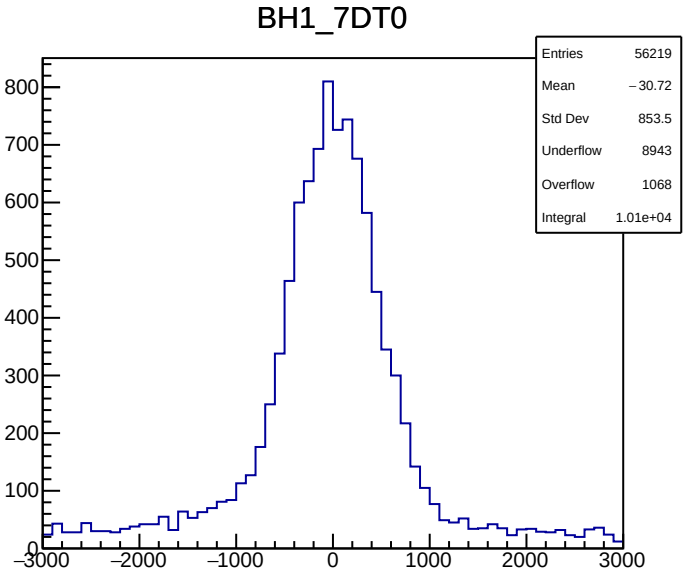
BH1_7DT0
Entries 56219
Mean −30.72
Std Dev 853.5
Underflow 8943
Overflow 1068
Integral 1.01e+04
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700
600
500
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0
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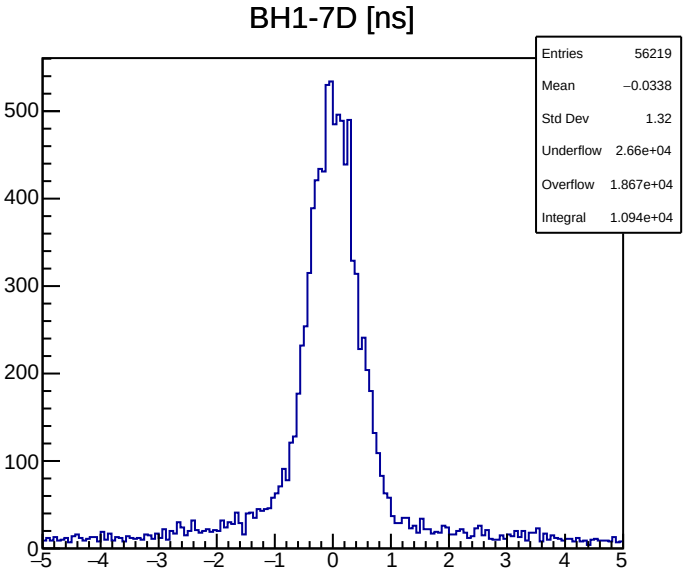
2000
3000


BH1-7D [ns]
Entries 56219
Mean −0.0338
Std Dev 1.32
Underflow 2.66e+04
Overflow 1.867e+04
Integral 1.094e+04
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200
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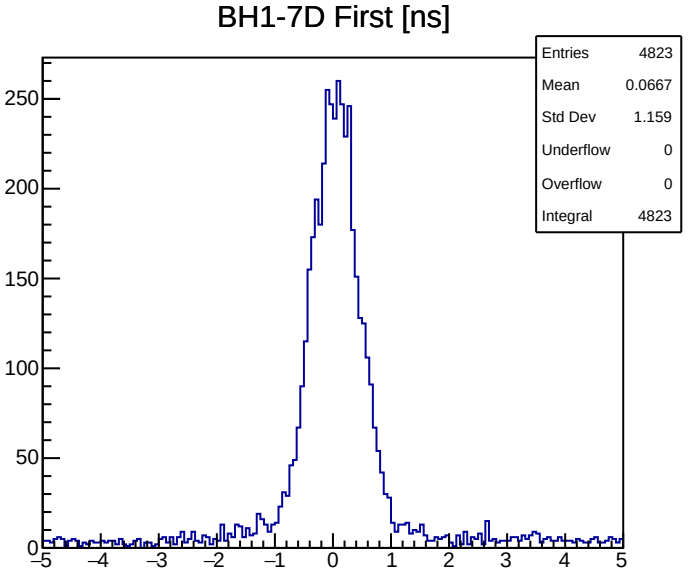
BH1-7D First [ns]
Entries 4823
Mean 0.0667
Std Dev 1.159
Underflow 0
Overflow 0
Integral 4823
250
200
150
100
50
0
−5
−4
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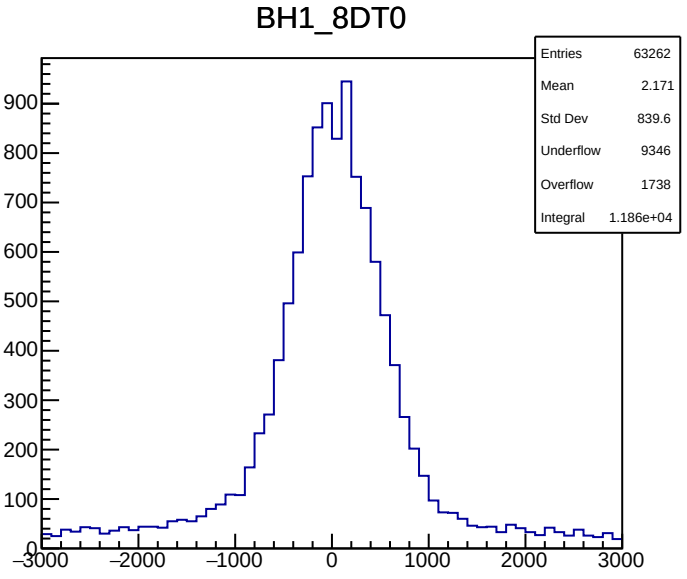
5


BH1_8DT0
Entries 63262
Mean 2.171
Std Dev 839.6
Underflow 9346
Overflow 1738
Integral 1.186e+04
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800
700
600
500
400
300
200
100
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–2000
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2000
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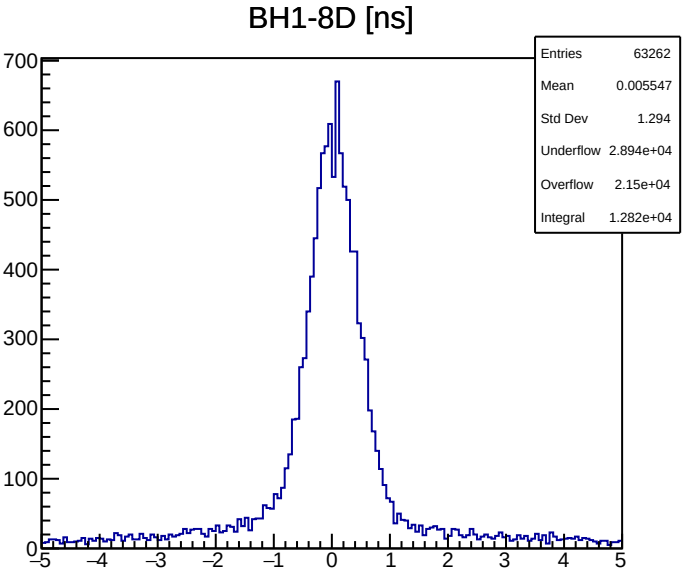
BH1-8D [ns]
Entries 63262
Mean 0.005547
Std Dev 1.294
Underflow 2.894e+04
Overflow 2.15e+04
Integral 1.282e+04
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200
100
0
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–1
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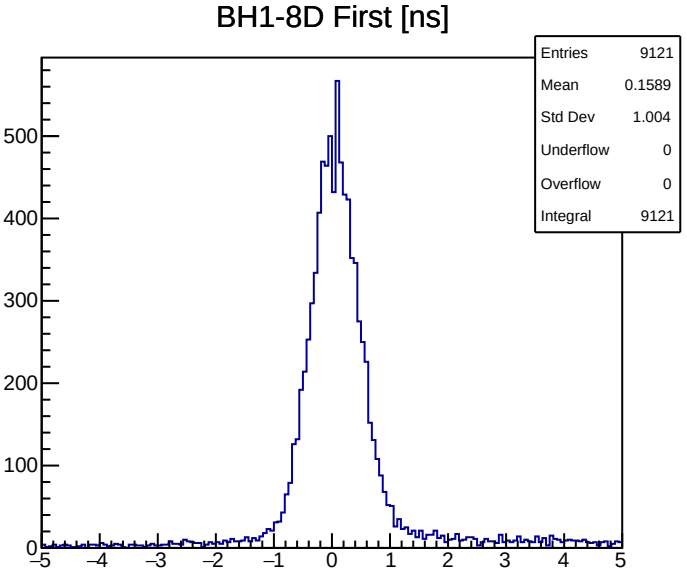
4
5


BH1-8D First [ns]
Entries 9121
Mean 0.1589
Std Dev 1.004
Underflow 0
Overflow 0
Integral 9121
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300
200
100
0
–5
–4
–3
–2
–1
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2
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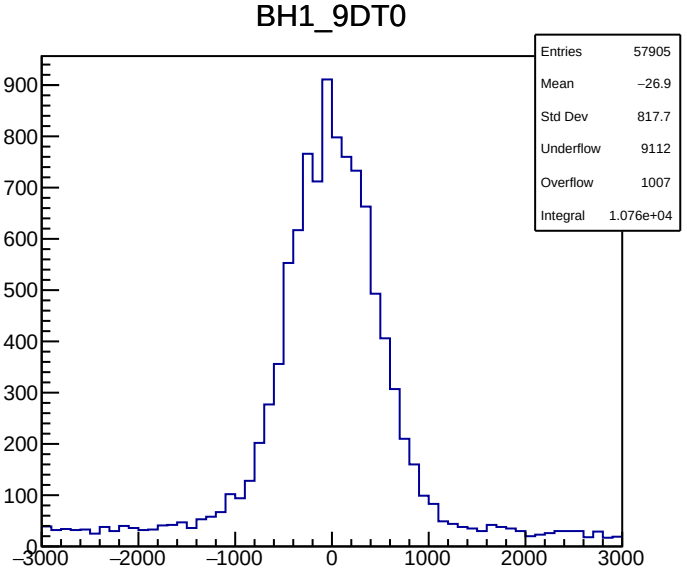
4
5


BH1_9DT0
Entries 57905
Mean −26.9
Std Dev 817.7
Underflow 9112
Overflow 1007
Integral 1.076e+04
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700
600
500
400
300
200
100
0
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−2000
−1000
0
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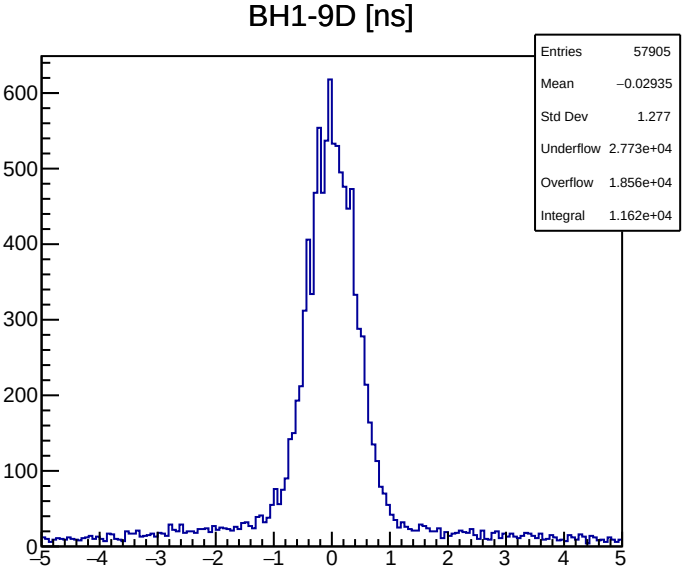
2000
3000


BH1-9D [ns]
Entries 57905
Mean −0.02935
Std Dev 1.277
Underflow 2.773e+04
Overflow 1.856e+04
Integral 1.162e+04
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300
200
100
0
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4
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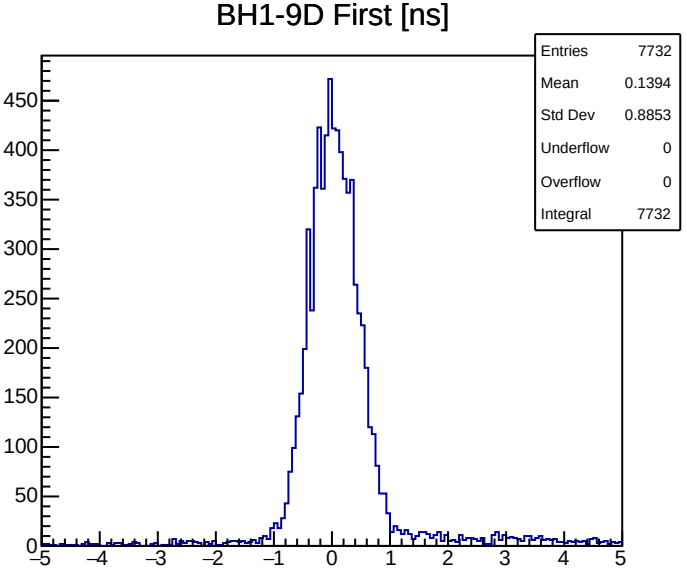
BH1-9D First [ns]
Entries 7732
Mean 0.1394
Std Dev 0.8853
Underflow 0
Overflow 0
Integral 7732
450
400
350
300
250
200
150
100
50
0
−5
−4
−3
−2
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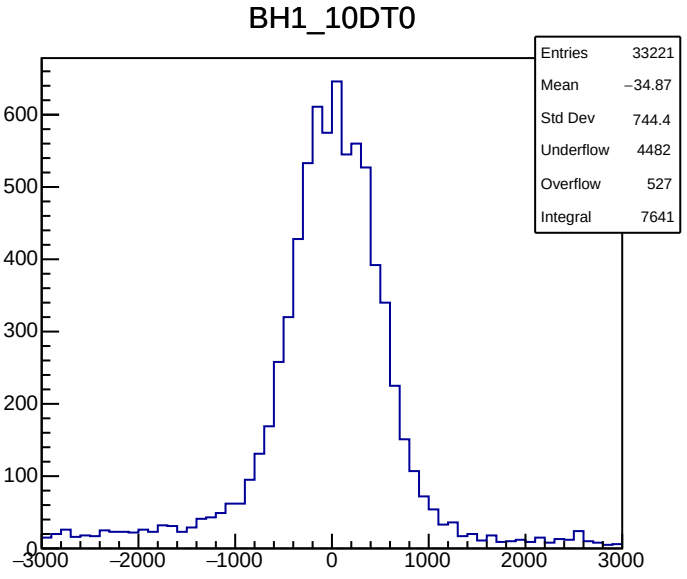
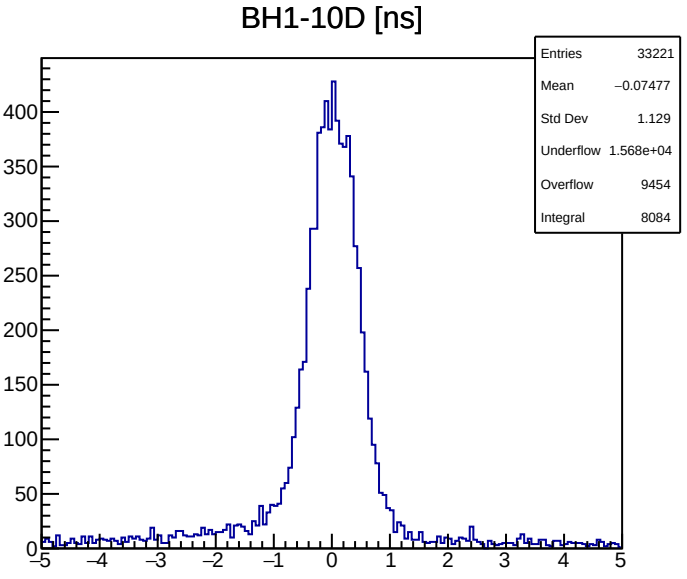
1
2
3
4
5


BH1_10DT0
Entries 33221
Mean −34.87
Std Dev 744.4
Underflow 4482
Overflow 527
Integral 7641
600
500
400
300
200
100
0
−3000
−2000
−1000
0
1000
2000
3000


BH1-10D [ns]
Entries 33221
Mean −0.07477
Std Dev 1.129
Underflow 1.568e+04
Overflow 9454
Integral 8084
400
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150
100
50
0
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4
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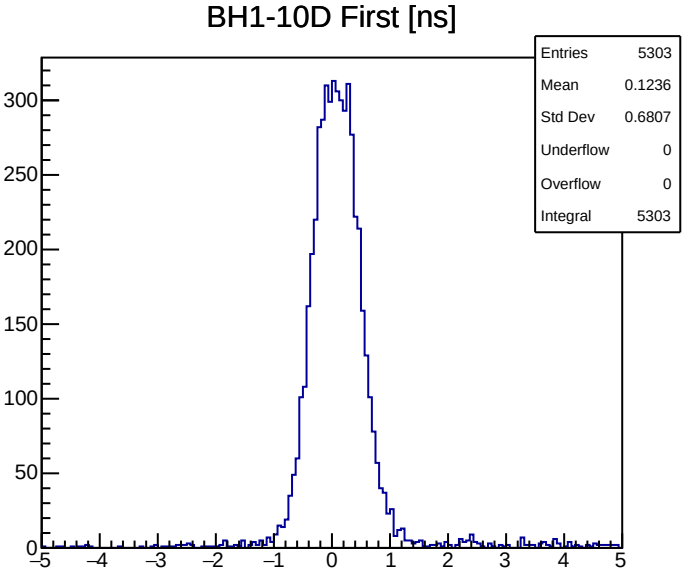
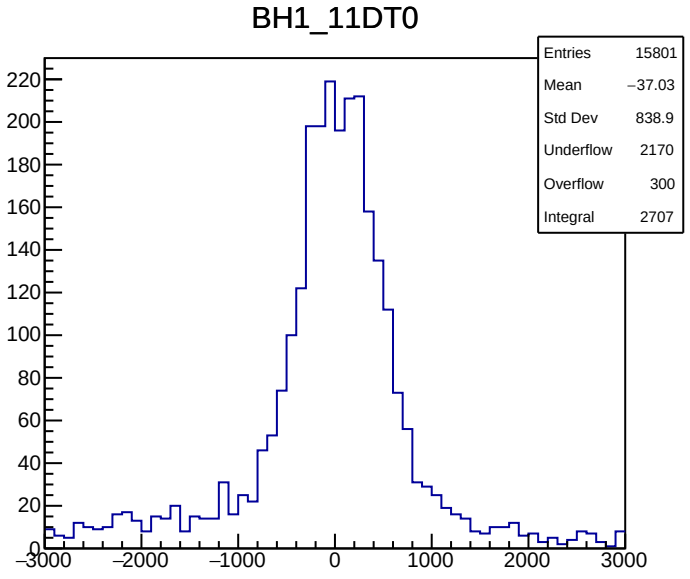
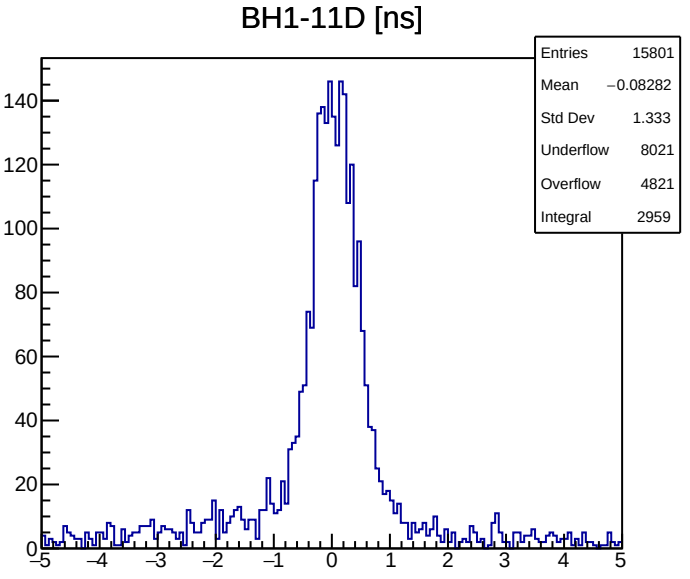
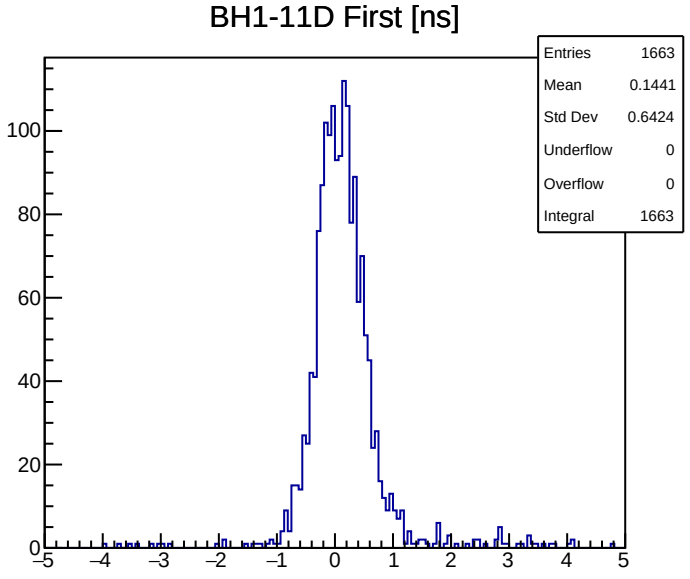
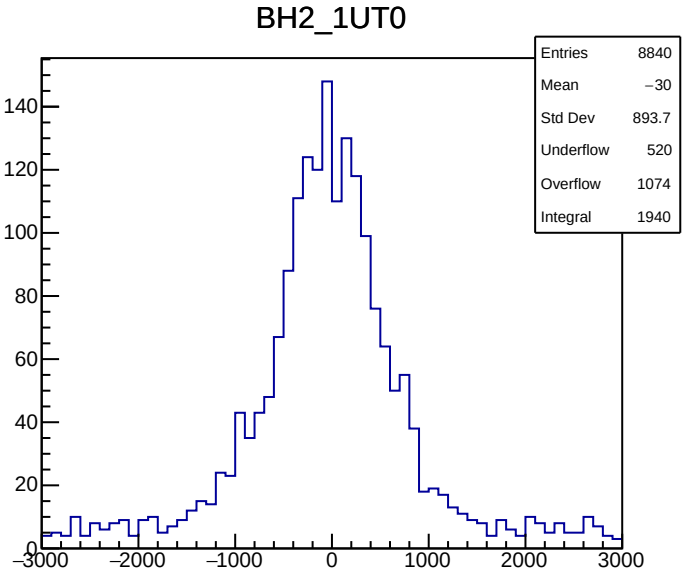
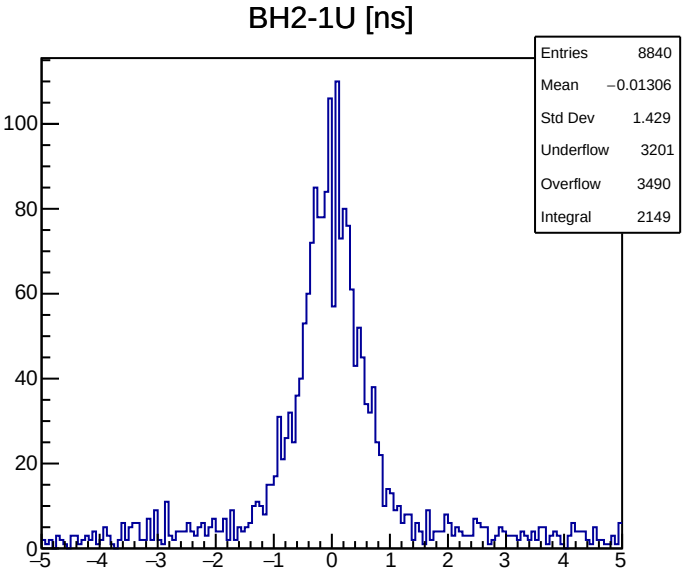

BH1-10D First [ns]
Entries 5303
Mean 0.1236
Std Dev 0.6807
Underflow 0
Overflow 0
Integral 5303
300
250
200
150
100
50
0
−5
−4
−3
−2
−1
0
1
2
3
4
5

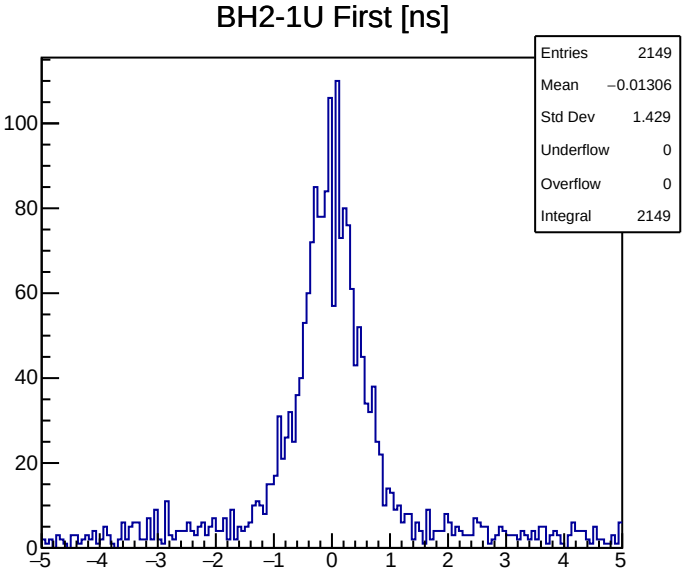

BH1_11DT0
Entries 15801
Mean −37.03
Std Dev 838.9
Underflow 2170
Overflow 300
Integral 2707

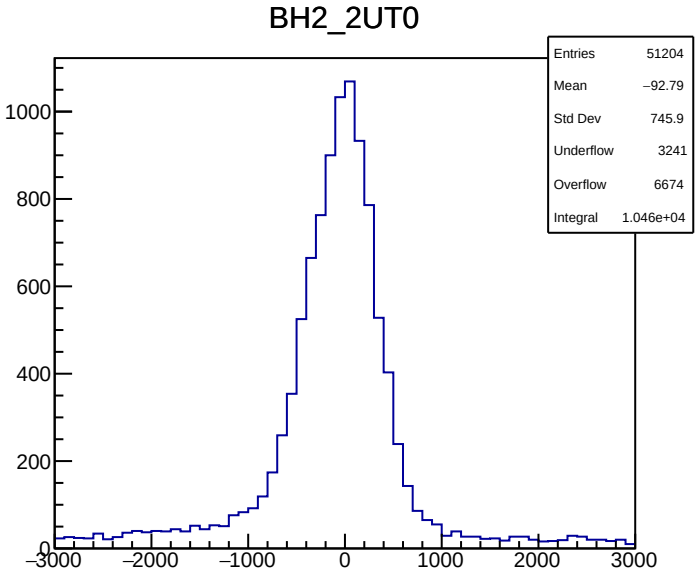

BH1-11D [ns]
Entries 15801
Mean −0.08282
Std Dev 1.333
Underflow 8021
Overflow 4821
Integral 2959

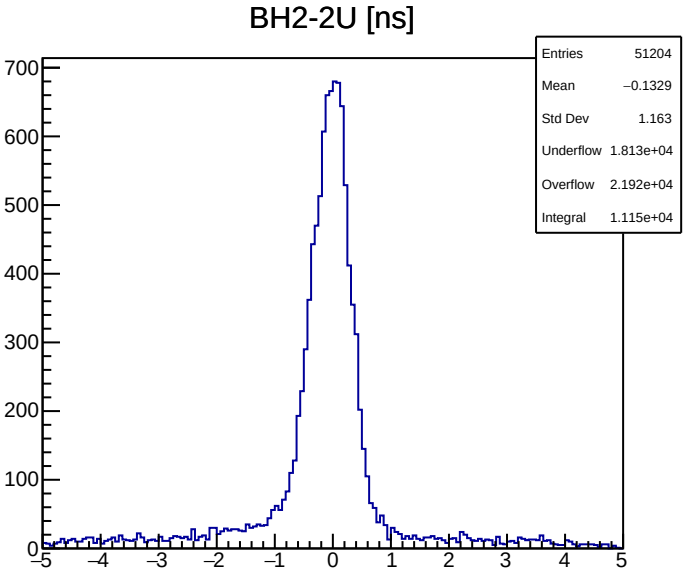

BH1-11D First [ns]
Entries 1663
Mean 0.1441
Std Dev 0.6424
Underflow 0
Overflow 0
Integral 1663

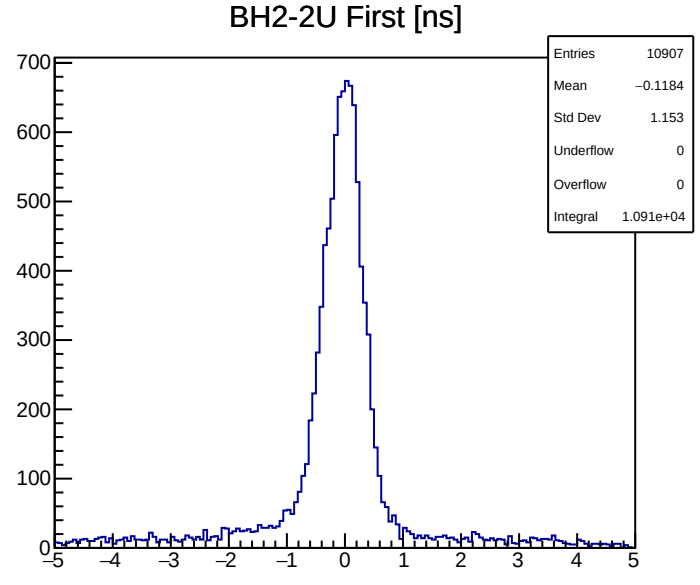

BH2_1UT0
Entries 8840
Mean −30
Std Dev 893.7
Underflow 520
Overflow 1074
Integral 1940
140
120
100
80
60
40
20
0
−3000
−2000
−1000
0
1000
2000
3000


BH2-1U [ns]
Entries 8840
Mean −0.01306
Std Dev 1.429
Underflow 3201
Overflow 3490
Integral 2149
100
80
60
40
20
0
−5
−4
−3
−2
−1
0
1
2
3
4
5


BH2-1U First [ns]
Entries 2149
Mean −0.01306
Std Dev 1.429
Underflow 0
Overflow 0
Integral 2149
100
80
60
40
20
0
−5
−4
−3
−2
−1
0
1
2
3
4
5


BH2_2UT0
Entries 51204
Mean −92.79
Std Dev 745.9
Underflow 3241
Overflow 6674
Integral 1.046e+04
1000
800
600
400
200
0
−3000
−2000
−1000
0
1000
2000
3000


BH2-2U [ns]
Entries 51204
Mean −0.1329
Std Dev 1.163
Underflow 1.813e+04
Overflow 2.192e+04
Integral 1.115e+04
700
600
500
400
300
200
100
0
−5
−4
−3
−2
−1
0
1
2
3
4
5


BH2-2U First [ns]
Entries 10907
Mean −0.1184
Std Dev 1.153
Underflow 0
Overflow 0
Integral 1.091e+04
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600
500
400
300
200
100
0
−5
−4
−3
−2
−1
0
1
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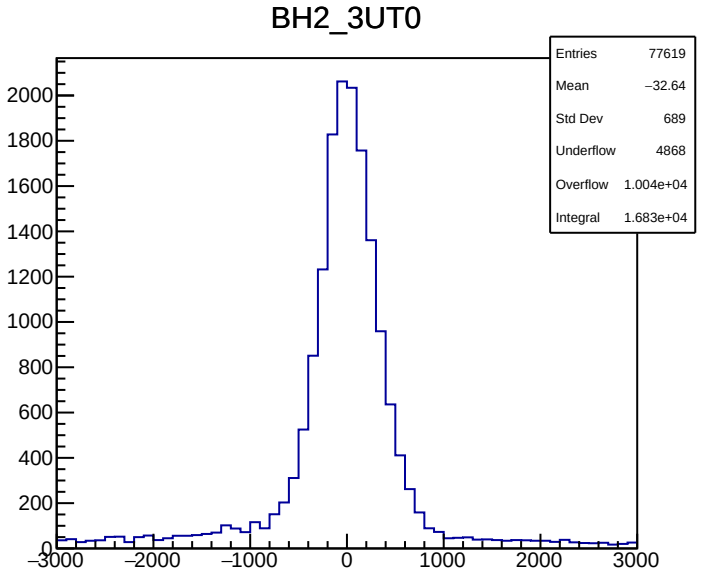
3
4
5


BH2_3UT0
Entries 77619
Mean −32.64
Std Dev 689
Underflow 4868
Overflow 1.004e+04
Integral 1.683e+04
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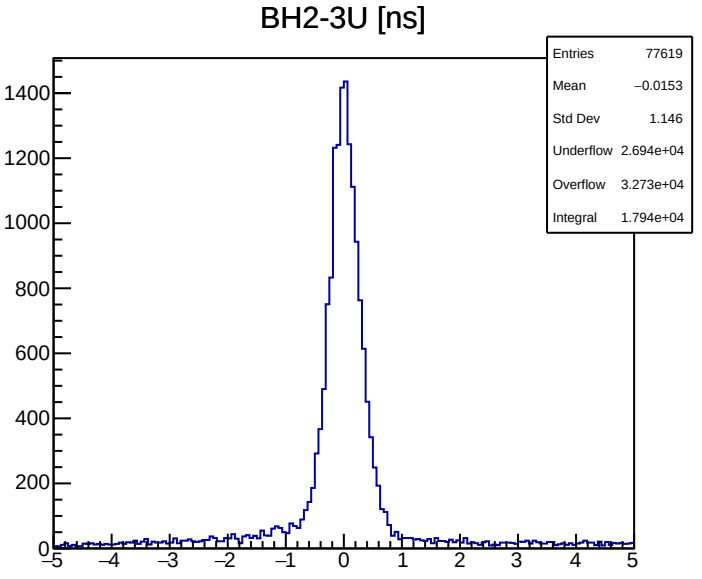
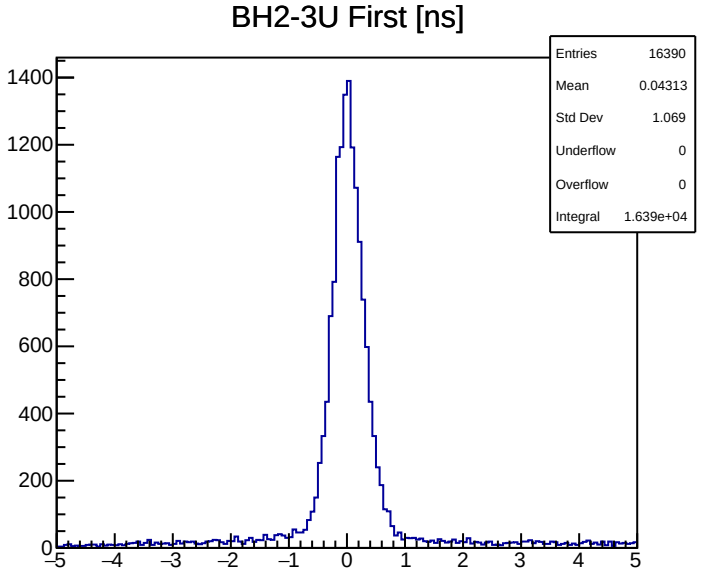
1800
1600
1400
1200
1000
800
600
400
200
0
−3000
−2000
−1000
0
1000
2000
3000


BH2-3U [ns]
Entries 77619
Mean −0.0153
Std Dev 1.146
Underflow 2.694e+04
Overflow 3.273e+04
Integral 1.794e+04
1400
1200
1000
800
600
400
200
0
−5
−4
−3
−2
−1
0
1
2
3
4
5


BH2-3U First [ns]
Entries 16390
Mean 0.04313
Std Dev 1.069
Underflow 0
Overflow 0
Integral 1.639e+04
1400
1200
1000
800
600
400
200
0
−5
−4
−3
−2
−1
0
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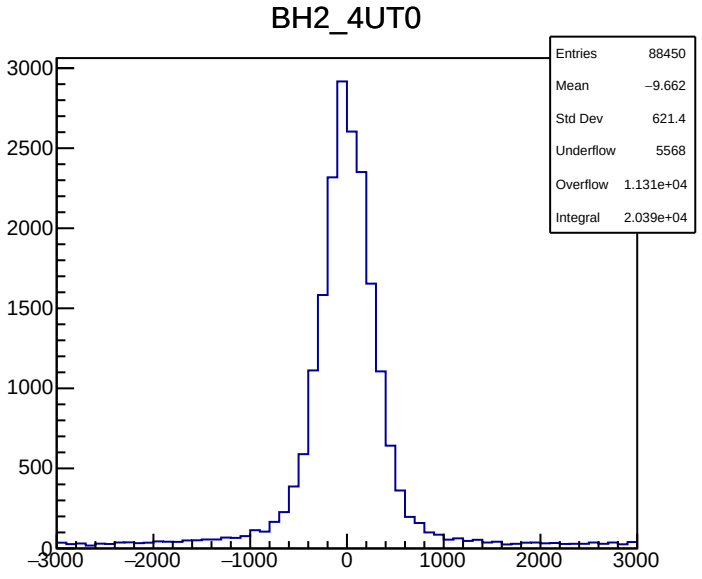
2
3
4
5


BH2_4UT0
Entries 88450
Mean −9.662
Std Dev 621.4
Underflow 5568
Overflow 1.131e+04
Integral 2.039e+04
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2500
2000
1500
1000
500
0
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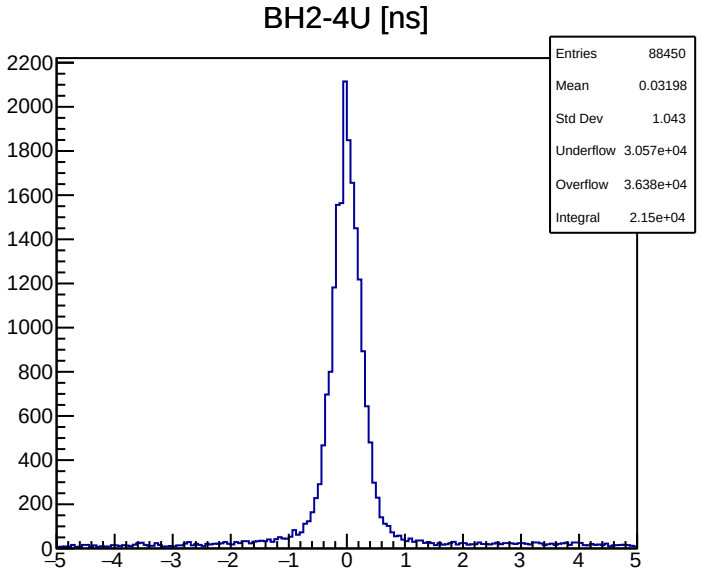
−2000
−1000
0
1000
2000
3000


BH2-4U [ns]
Entries 88450
Mean 0.03198
Std Dev 1.043
Underflow 3.057e+04
Overflow 3.638e+04
Integral 2.15e+04
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
−5
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−3
−2
−1
0
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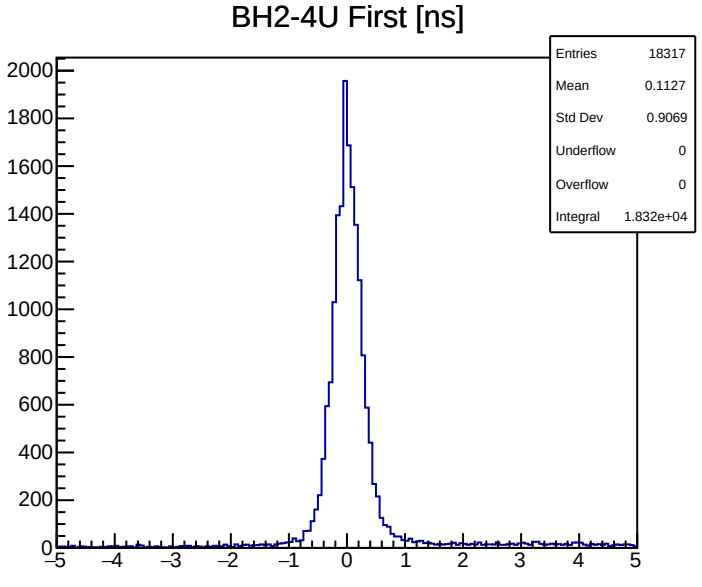
2
3
4
5


BH2-4U First [ns]
Entries 18317
Mean 0.1127
Std Dev 0.9069
Underflow 0
Overflow 0
Integral 1.832e+04
2000
1800
1600
1400
1200
1000
800
600
400
200
0
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−2
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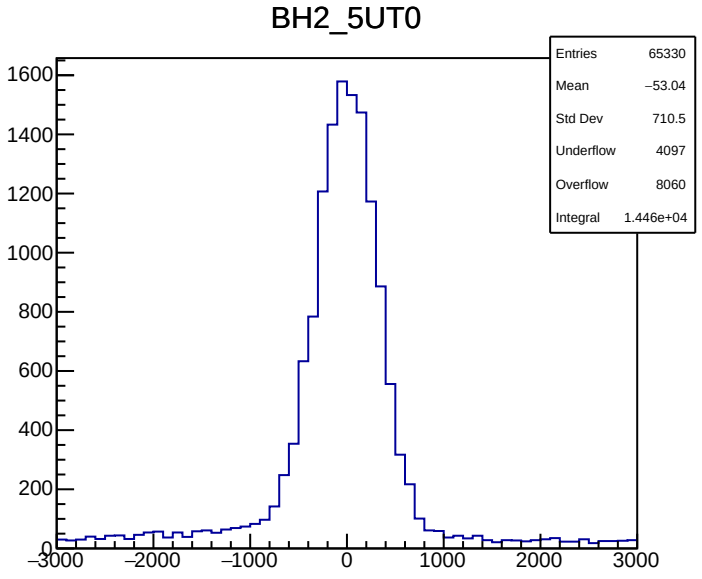
2
3
4
5


BH2_5UT0
Entries 65330
Mean −53.04
Std Dev 710.5
Underflow 4097
Overflow 8060
Integral 1.446e+04
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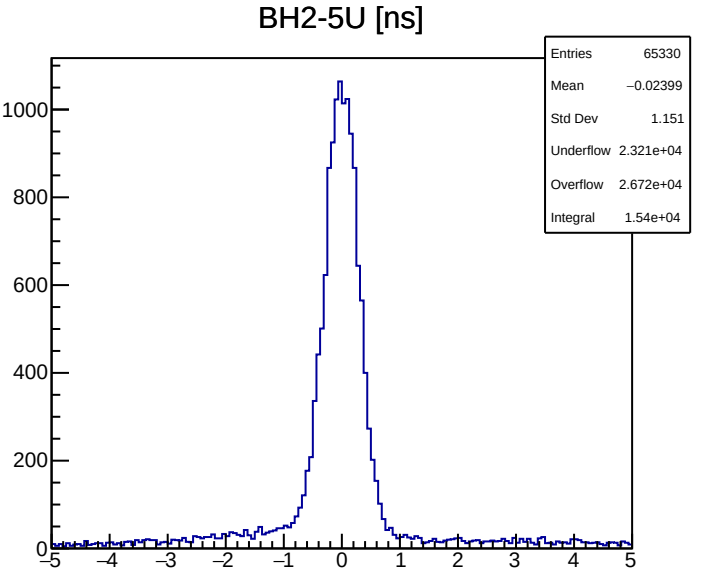
1400
1200
1000
800
600
400
200
0
−3000
−2000
−1000
0
1000
2000
3000


BH2-5U [ns]
Entries 65330
Mean −0.02399
Std Dev 1.151
Underflow 2.321e+04
Overflow 2.672e+04
Integral 1.54e+04
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400
200
0
−5
−4
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−2
−1
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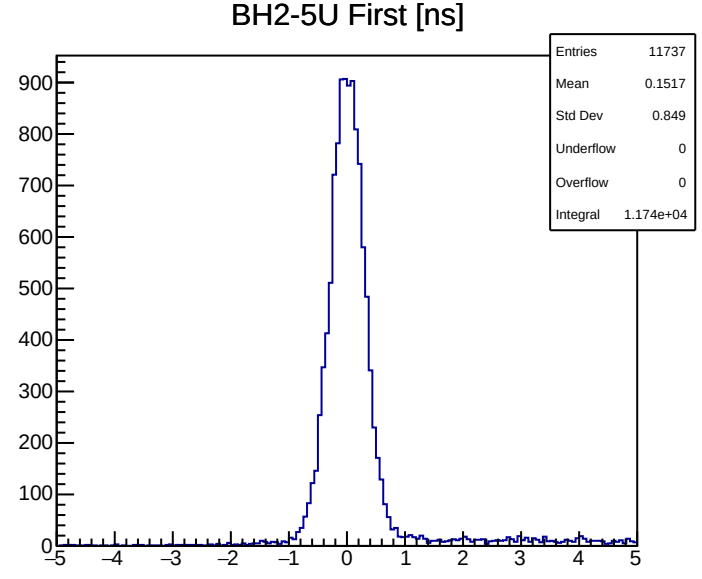
2
3
4
5


BH2-5U First [ns]
Entries 11737
Mean 0.1517
Std Dev 0.849
Underflow 0
Overflow 0
Integral 1.174e+04
900
800
700
600
500
400
300
200
100
0
−5
−4
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−1
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2
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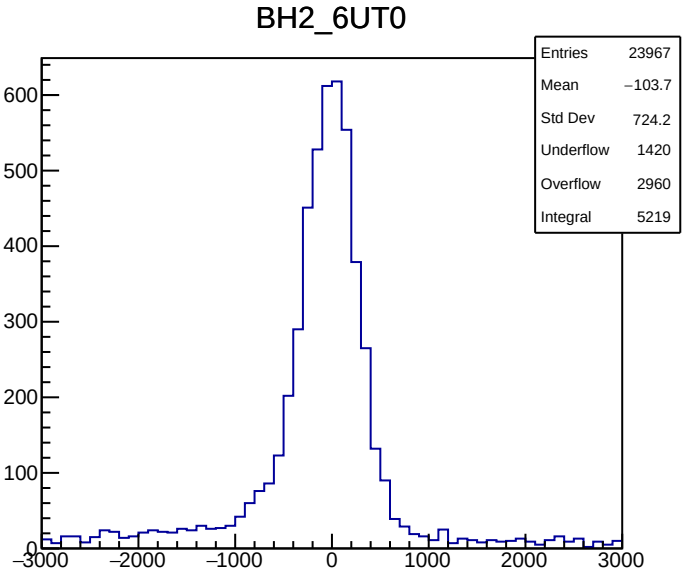
4
5


BH2_6UT0
Entries 23967
Mean −103.7
Std Dev 724.2
Underflow 1420
Overflow 2960
Integral 5219
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500
400
300
200
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0
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−2000
−1000
0
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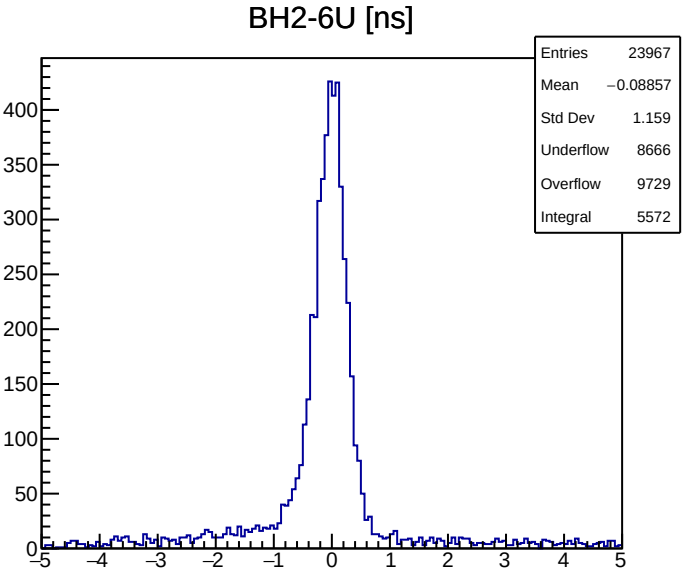
2000
3000


BH2-6U [ns]
Entries 23967
Mean −0.08857
Std Dev 1.159
Underflow 8666
Overflow 9729
Integral 5572
400
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100
50
0
−5
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4
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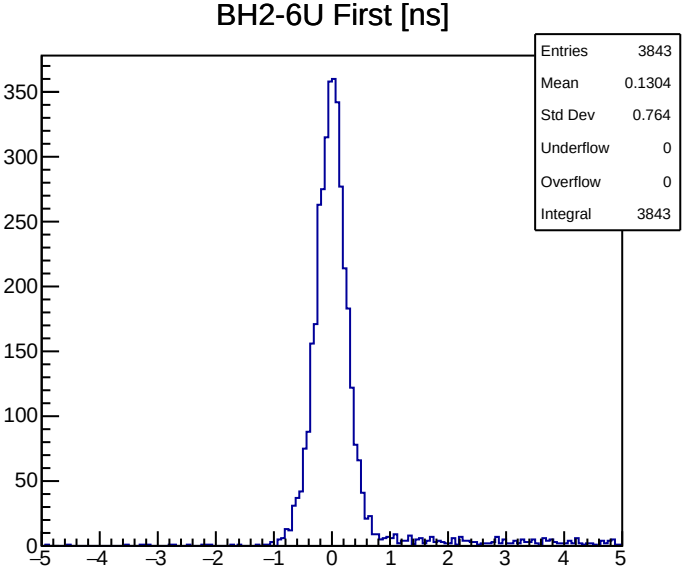
BH2-6U First [ns]
Entries 3843
Mean 0.1304
Std Dev 0.764
Underflow 0
Overflow 0
Integral 3843
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250
200
150
100
50
0
−5
−4
−3
−2
−1
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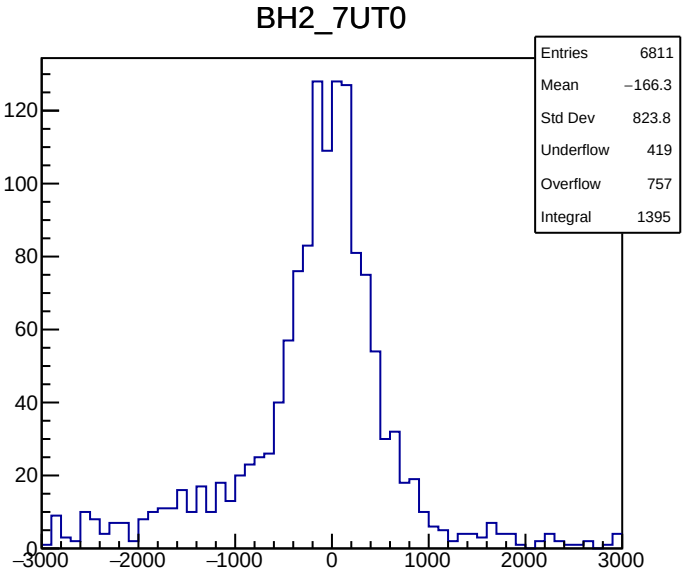
2
3
4
5


BH2_7UT0
Entries 6811
Mean −166.3
Std Dev 823.8
Underflow 419
Overflow 757
Integral 1395
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100
80
60
40
20
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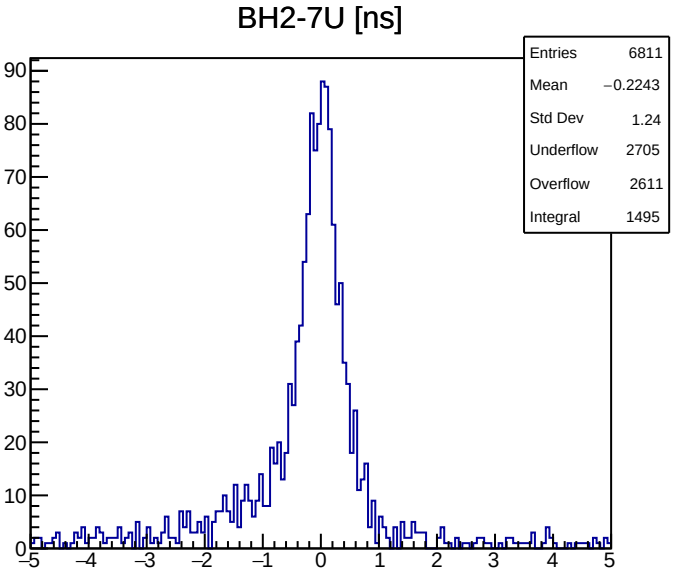
−1000
0
1000
2000
3000


BH2-7U [ns]
Entries 6811
Mean −0.2243
Std Dev 1.24
Underflow 2705
Overflow 2611
Integral 1495
90
80
70
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50
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30
20
10
0
−5
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−2
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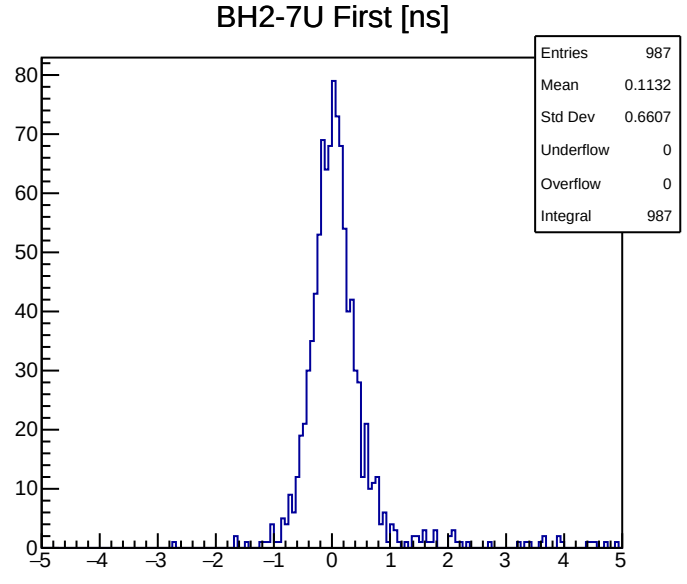
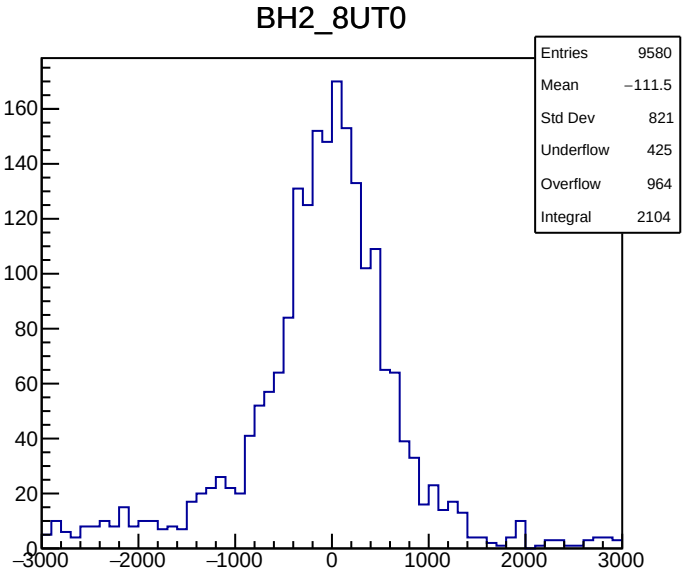
2
3
4
5


BH2-7U First [ns]
Entries 987
Mean 0.1132
Std Dev 0.6607
Underflow 0
Overflow 0
Integral 987
80
70
60
50
40
30
20
10
0
−5
−4
−3
−2
−1
0
1
2
3
4
5


BH2_8UT0
Entries 9580
Mean −111.5
Std Dev 821
Underflow 425
Overflow 964
Integral 2104
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140
120
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80
60
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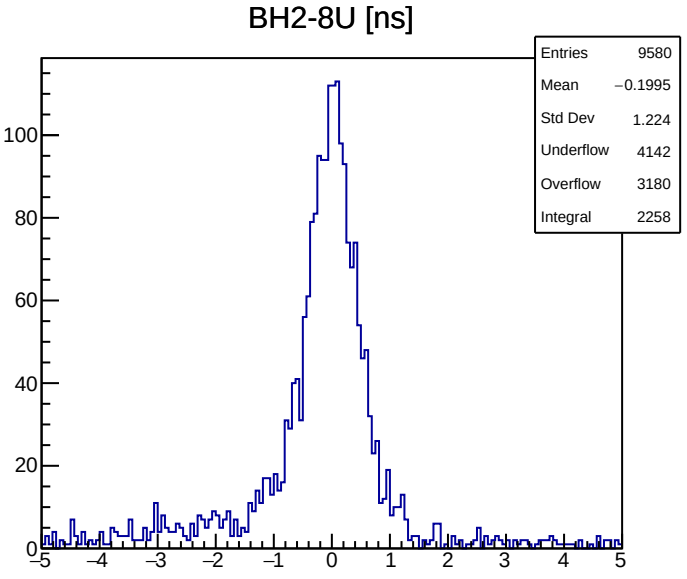
BH2-8U [ns]
Entries 9580
Mean −0.1995
Std Dev 1.224
Underflow 4142
Overflow 3180
Integral 2258
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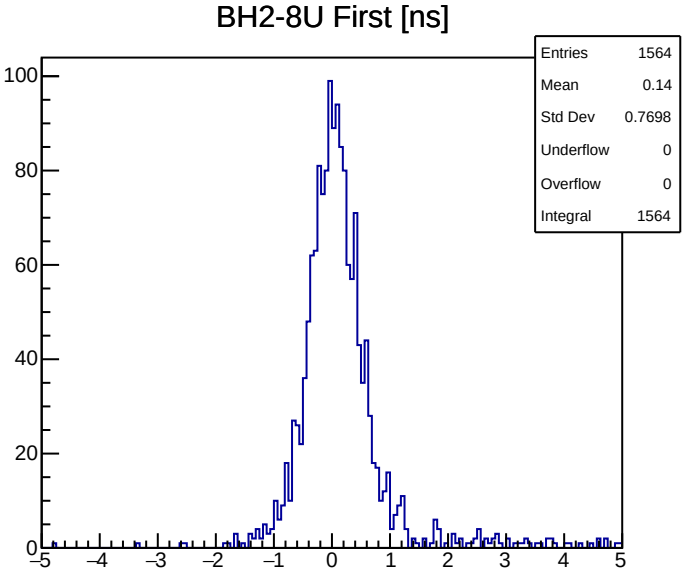
BH2-8U First [ns]
Entries 1564
Mean 0.14
Std Dev 0.7698
Underflow 0
Overflow 0
Integral 1564
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60
40
20
0
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−2
−1
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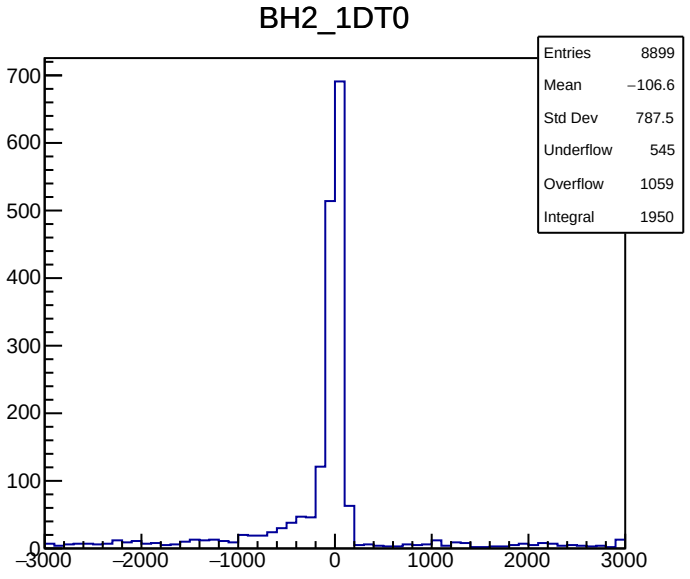
4
5


BH2_1DT0
Entries 8899
Mean −106.6
Std Dev 787.5
Underflow 545
Overflow 1059
Integral 1950
700
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300
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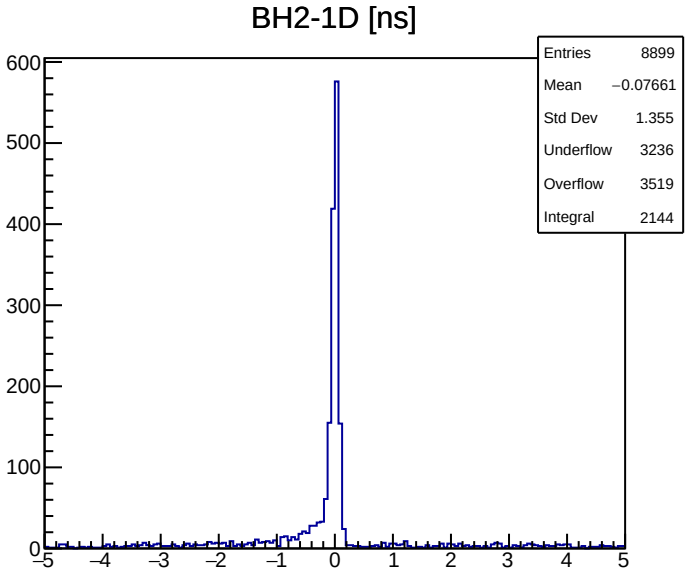
BH2-1D [ns]
Entries 8899
Mean −0.07661
Std Dev 1.355
Underflow 3236
Overflow 3519
Integral 2144
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200
100
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4
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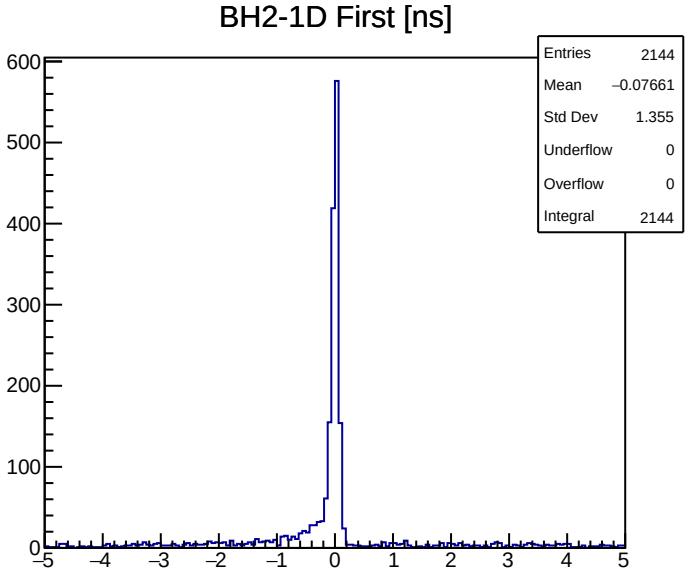
BH2-1D First [ns]
Entries 2144
Mean −0.07661
Std Dev 1.355
Underflow 0
Overflow 0
Integral 2144
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200
100
0
−5
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−2
−1
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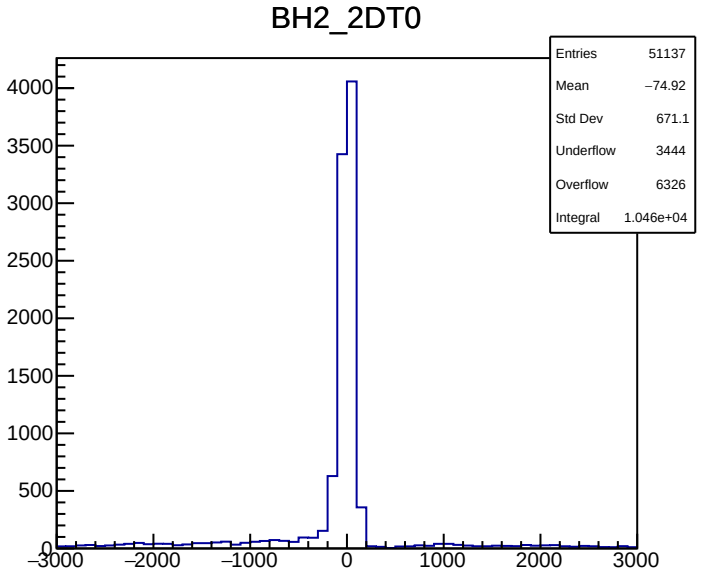
2
3
4
5


BH2_2DT0
Entries 51137
Mean −74.92
Std Dev 671.1
Underflow 3444
Overflow 6326
Integral 1.046e+04
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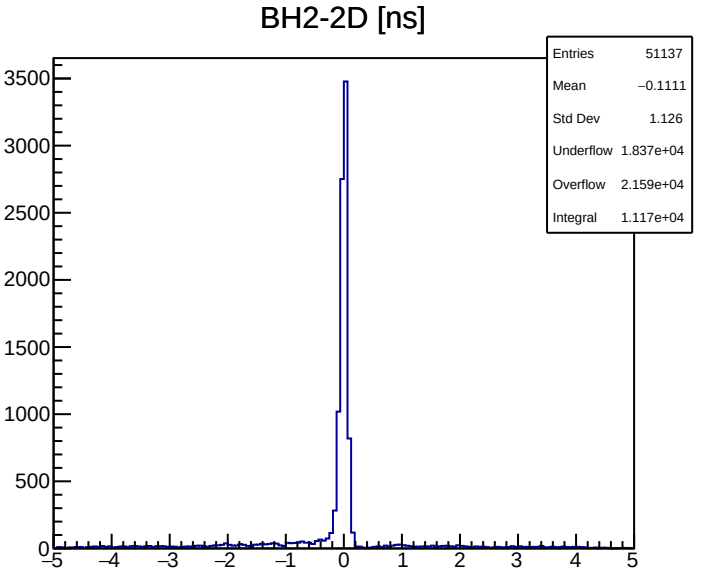
3500
3000
2500
2000
1500
1000
500
0
−3000
−2000
−1000
0
1000
2000
3000


BH2-2D [ns]
Entries 51137
Mean −0.1111
Std Dev 1.126
Underflow 1.837e+04
Overflow 2.159e+04
Integral 1.117e+04
3500
3000
2500
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1500
1000
500
0
−5
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−3
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4
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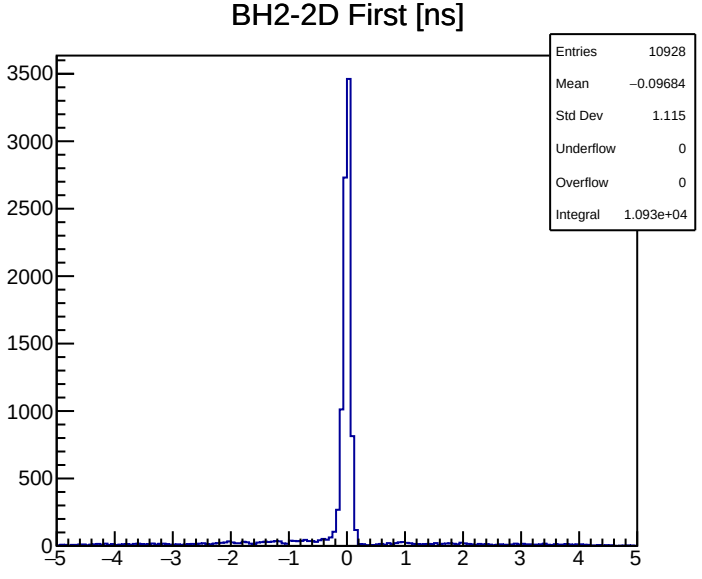
BH2-2D First [ns]
Entries 10928
Mean −0.09684
Std Dev 1.115
Underflow 0
Overflow 0
Integral 1.093e+04
3500
3000
2500
2000
1500
1000
500
0
−5
−4
−3
−2
−1
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1
2
3
4
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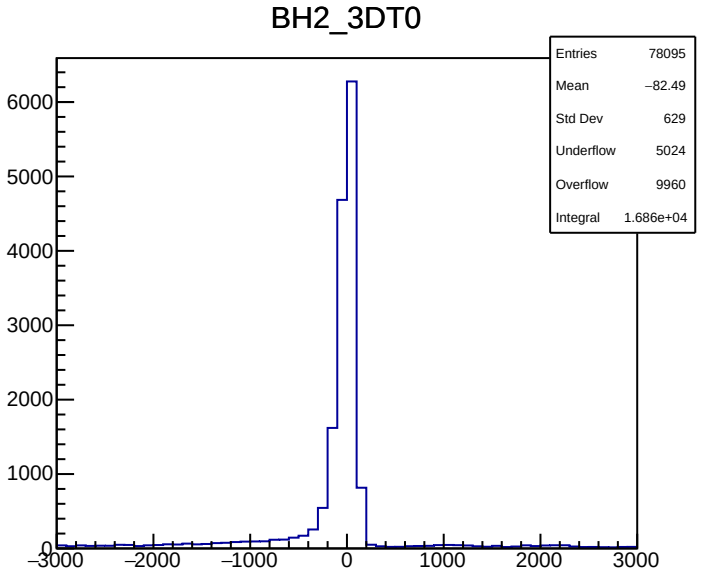
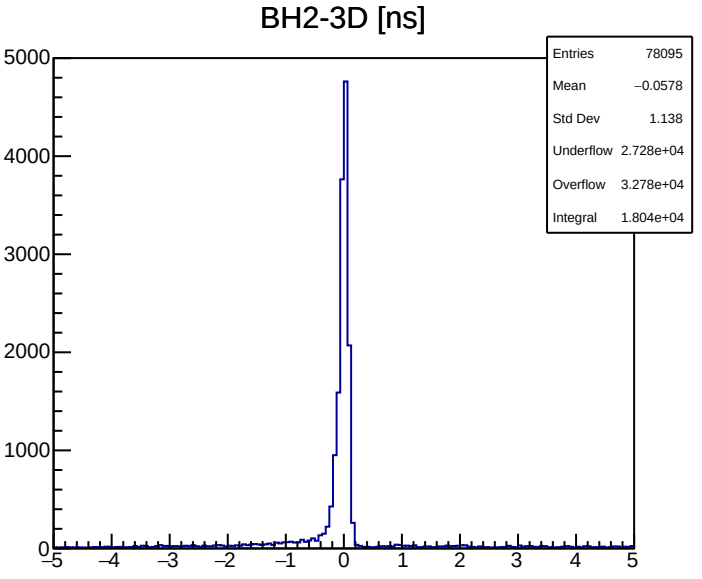

BH2_3DT0
Entries 78095
Mean −82.49
Std Dev 629
Underflow 5024
Overflow 9960
Integral 1.686e+04
6000
5000
4000
3000
2000
1000
0
−3000
−2000
−1000
0
1000
2000
3000


BH2-3D [ns]
Entries 78095
Mean −0.0578
Std Dev 1.138
Underflow 2.728e+04
Overflow 3.278e+04
Integral 1.804e+04
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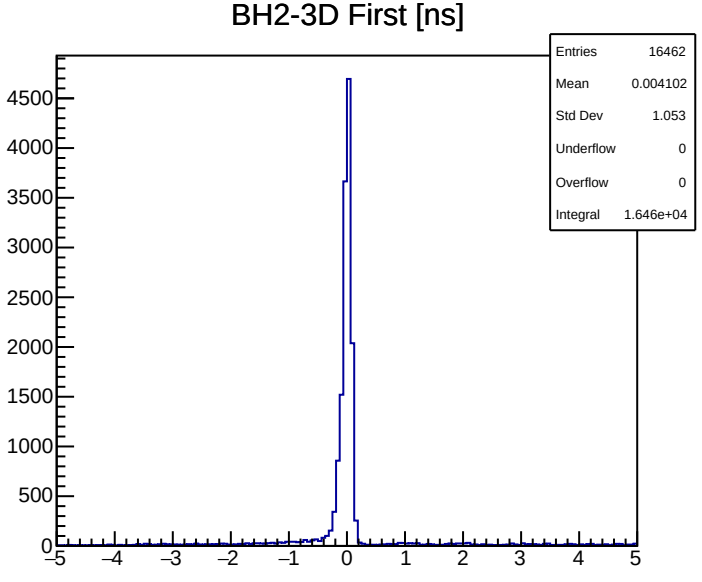
3000
2000
1000
0
−5
−4
−3
−2
−1
0
1
2
3
4
5


BH2-3D First [ns]
Entries 16462
Mean 0.004102
Std Dev 1.053
Underflow 0
Overflow 0
Integral 1.646e+04
4500
4000
3500
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2500
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1500
1000
500
0
−5
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−3
−2
−1
0
1
2
3
4
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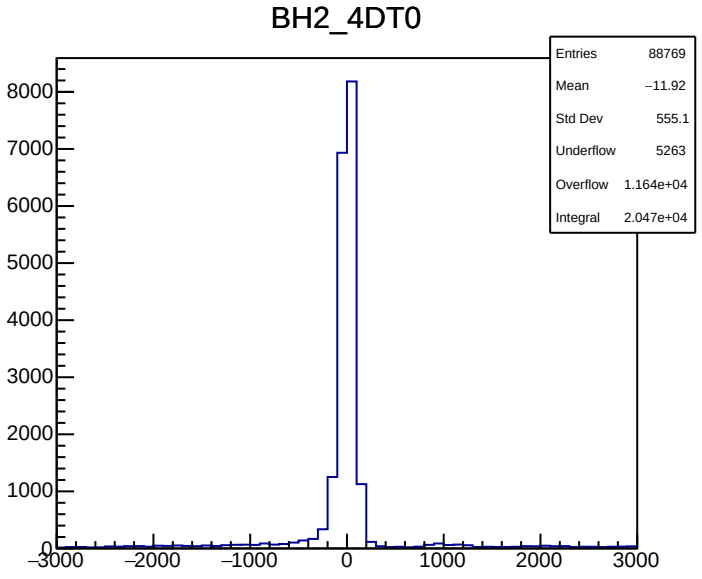
BH2_4DT0
Entries 88769
Mean −11.92
Std Dev 555.1
Underflow 5263
Overflow 1.164e+04
Integral 2.047e+04
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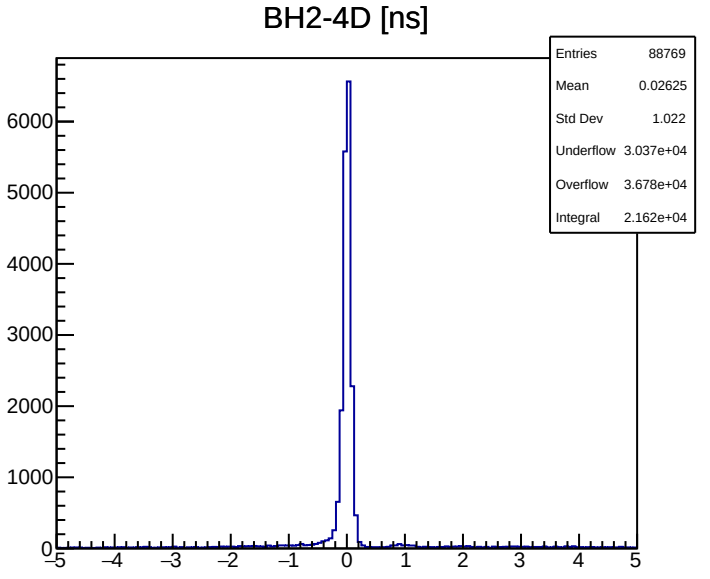
7000
6000
5000
4000
3000
2000
1000
0
−3000
−2000
−1000
0
1000
2000
3000


BH2-4D [ns]
Entries 88769
Mean 0.02625
Std Dev 1.022
Underflow 3.037e+04
Overflow 3.678e+04
Integral 2.162e+04
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5000
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3000
2000
1000
0
−5
−4
−3
−2
−1
0
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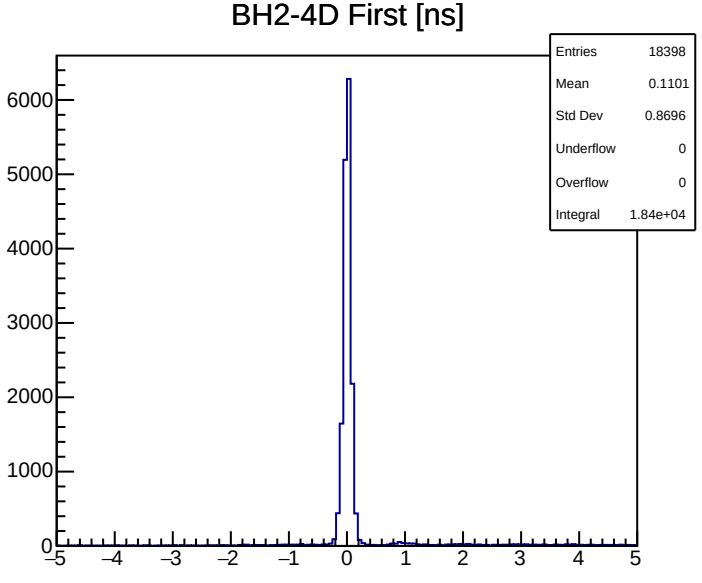
2
3
4
5


BH2-4D First [ns]
Entries 18398
Mean 0.1101
Std Dev 0.8696
Underflow 0
Overflow 0
Integral 1.84e+04
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3000
2000
1000
0
−5
−4
−3
−2
−1
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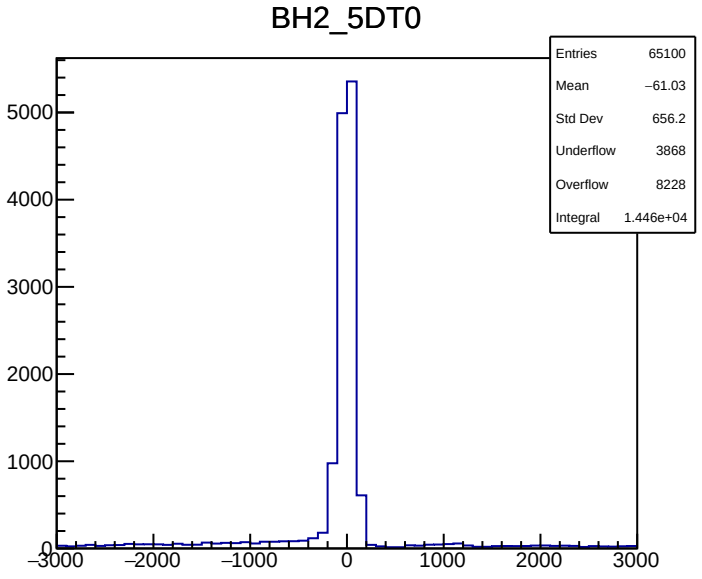
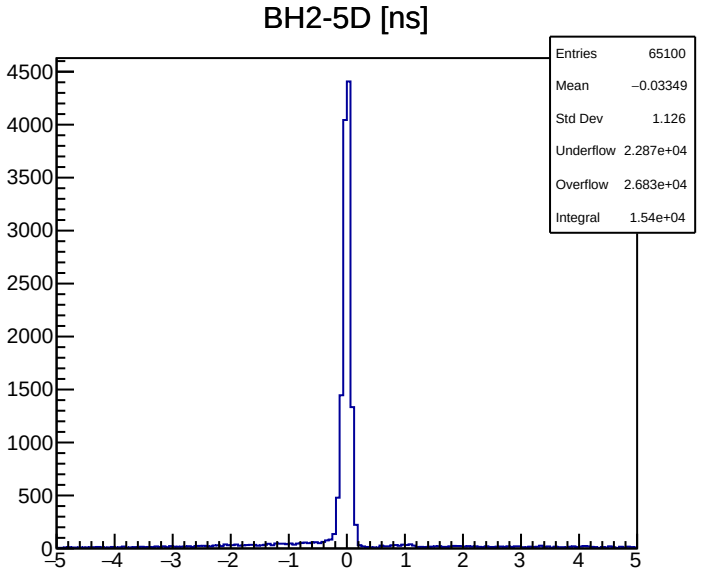
2
3
4
5


BH2_5DT0
Entries 65100
Mean −61.03
Std Dev 656.2
Underflow 3868
Overflow 8228
Integral 1.446e+04
5000
4000
3000
2000
1000
0
−3000
−2000
−1000
0
1000
2000
3000


BH2-5D [ns]
Entries 65100
Mean −0.03349
Std Dev 1.126
Underflow 2.287e+04
Overflow 2.683e+04
Integral 1.54e+04
4500
4000
3500
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2500
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1500
1000
500
0
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−3
−2
−1
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2
3
4
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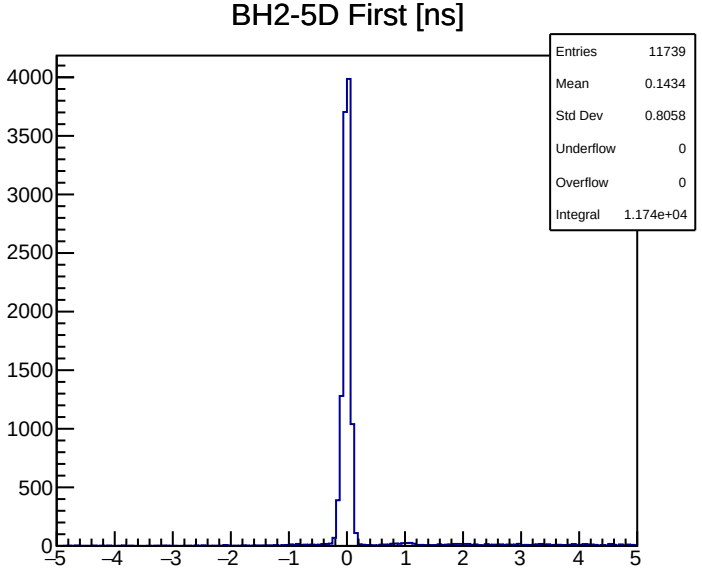
BH2-5D First [ns]
Entries 11739
Mean 0.1434
Std Dev 0.8058
Underflow 0
Overflow 0
Integral 1.174e+04
4000
3500
3000
2500
2000
1500
1000
500
0
−5
−4
−3
−2
−1
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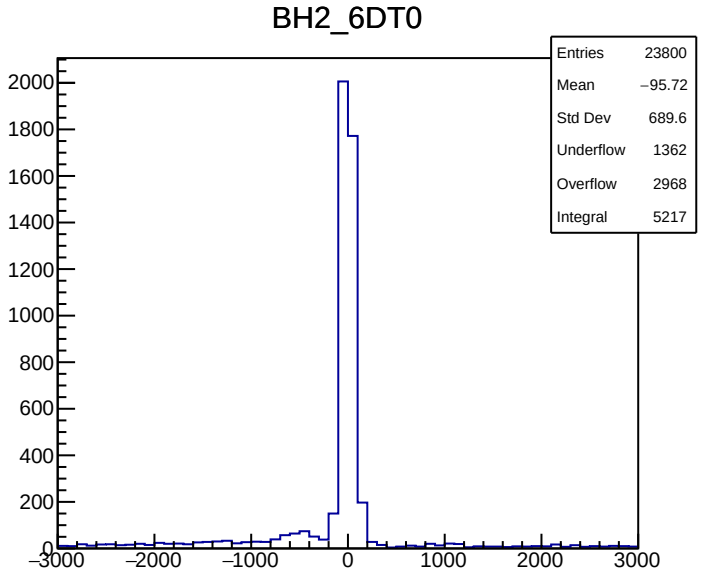
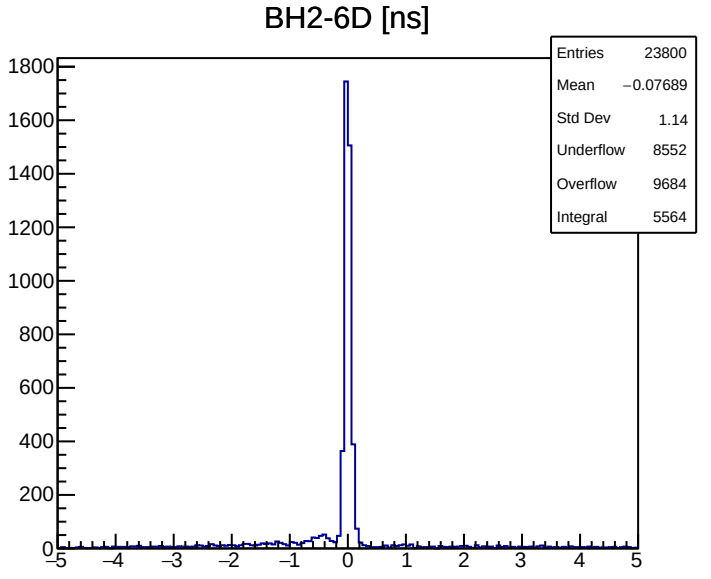
2
3
4
5


BH2_6DT0
Entries 23800
Mean −95.72
Std Dev 689.6
Underflow 1362
Overflow 2968
Integral 5217
2000
1800
1600
1400
1200
1000
800
600
400
200
0
−3000
−2000
−1000
0
1000
2000
3000


BH2-6D [ns]
Entries 23800
Mean −0.07689
Std Dev 1.14
Underflow 8552
Overflow 9684
Integral 5564
1800
1600
1400
1200
1000
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600
400
200
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−2
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3
4
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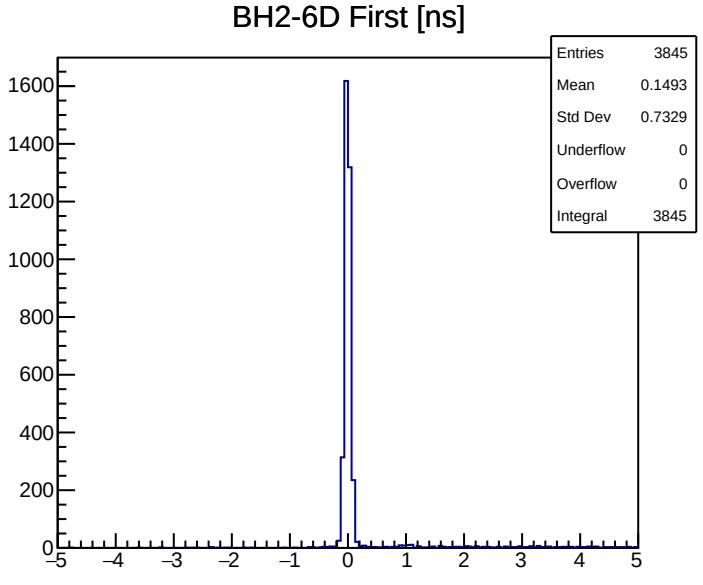
BH2-6D First [ns]
Entries 3845
Mean 0.1493
Std Dev 0.7329
Underflow 0
Overflow 0
Integral 3845
1600
1400
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1000
800
600
400
200
0
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−3
−2
−1
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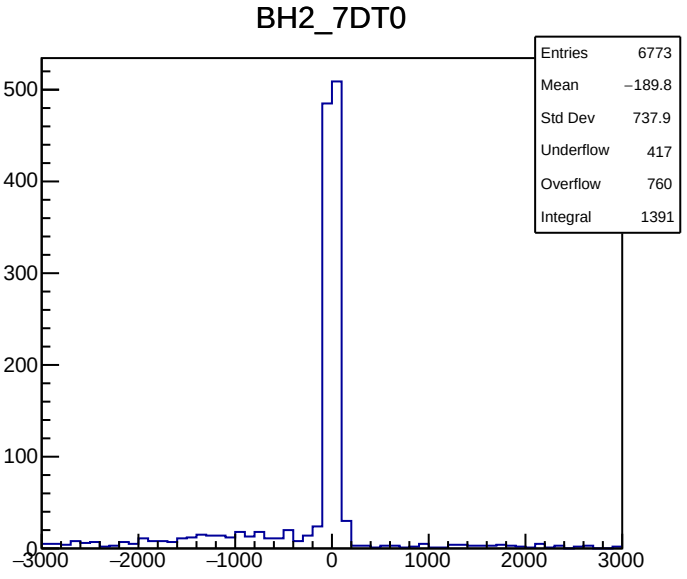
2
3
4
5


BH2_7DT0
Entries 6773
Mean −189.8
Std Dev 737.9
Underflow 417
Overflow 760
Integral 1391
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300
200
100
0
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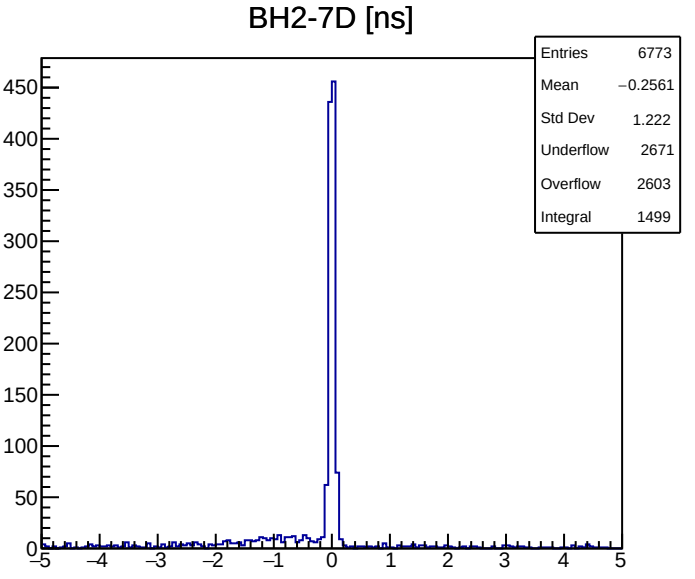
−1000
0
1000
2000
3000


BH2-7D [ns]
Entries 6773
Mean −0.2561
Std Dev 1.222
Underflow 2671
Overflow 2603
Integral 1499
450
400
350
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100
50
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4
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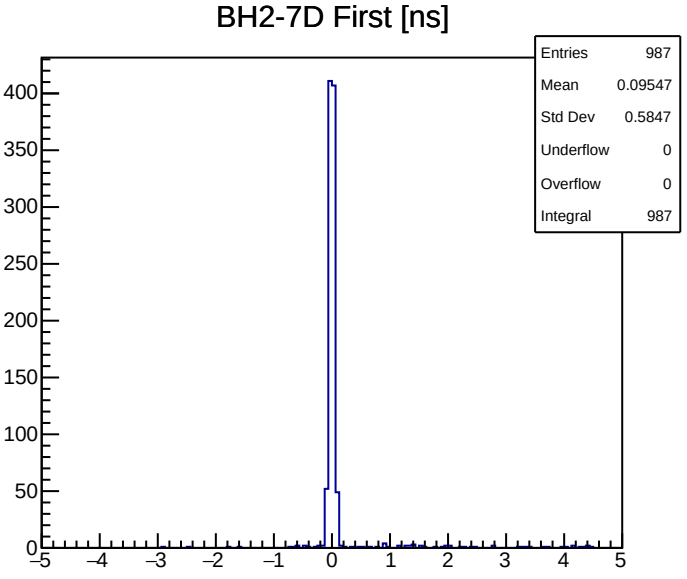
BH2-7D First [ns]
Entries 987
Mean 0.09547
Std Dev 0.5847
Underflow 0
Overflow 0
Integral 987
400
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150
100
50
0
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−1
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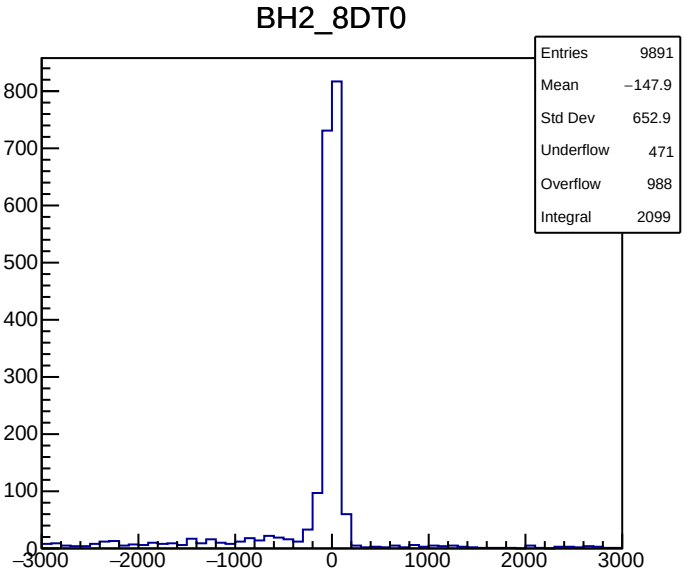
2
3
4
5


BH2_8DT0
Entries 9891
Mean −147.9
Std Dev 652.9
Underflow 471
Overflow 988
Integral 2099
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700
600
500
400
300
200
100
0
−3000
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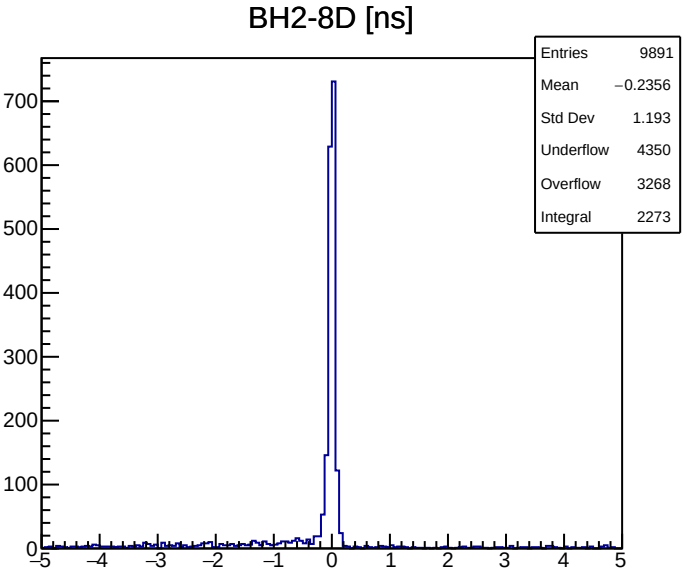
−1000
0
1000
2000
3000


BH2-8D [ns]
Entries 9891
Mean −0.2356
Std Dev 1.193
Underflow 4350
Overflow 3268
Integral 2273
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200
100
0
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−1
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4
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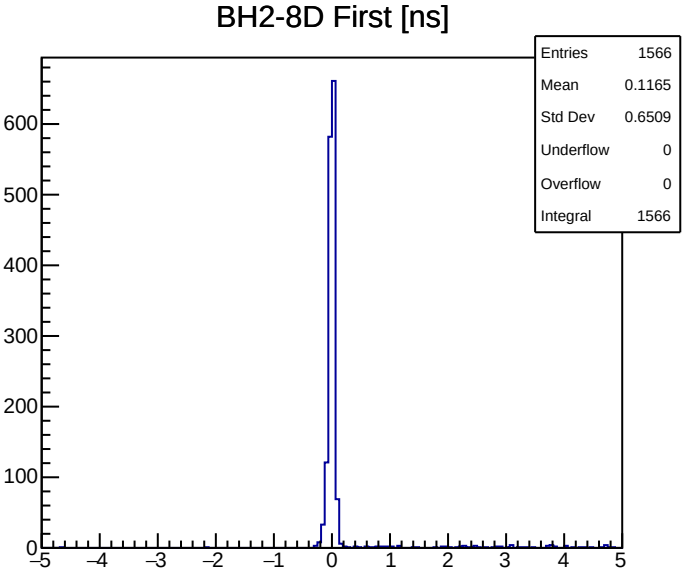
BH2-8D First [ns]
Entries 1566
Mean 0.1165
Std Dev 0.6509
Underflow 0
Overflow 0
Integral 1566
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500
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300
200
100
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−3
−2
−1
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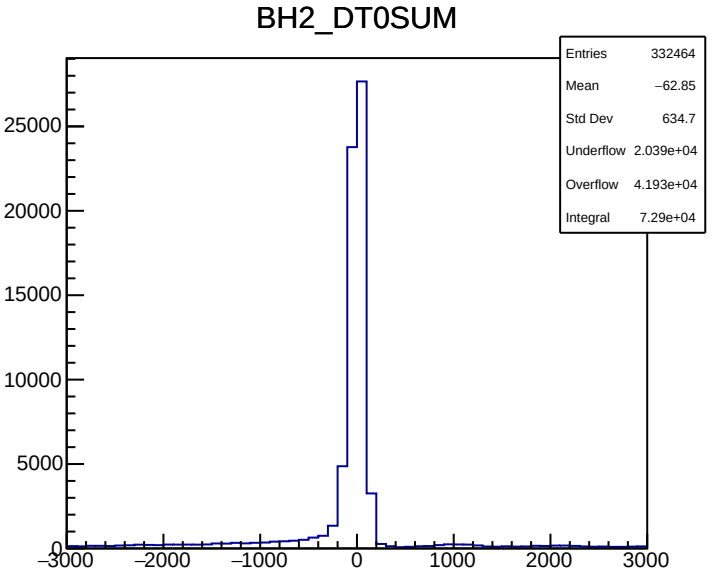
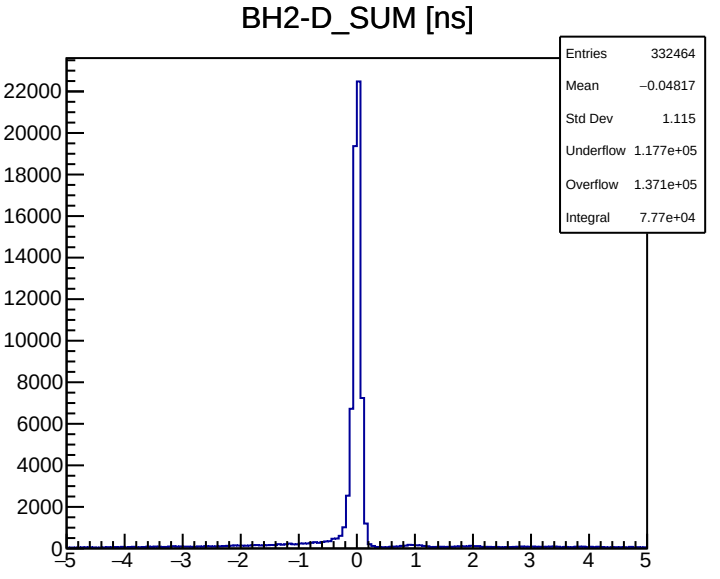
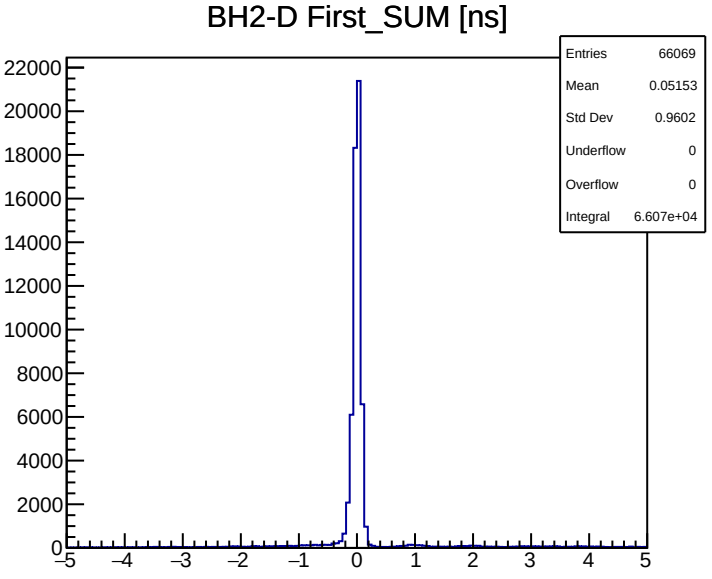
2
3
4
5


BH2_DT0SUM
Entries 332464
Mean −62.85
Std Dev 634.7
Underflow 2.039e+04
Overflow 4.193e+04
Integral 7.29e+04
25000
20000
15000
10000
5000
0
−3000
−2000
−1000
0
1000
2000
3000


BH2-D_SUM [ns]
Entries 332464
Mean −0.04817
Std Dev 1.115
Underflow 1.177e+05
Overflow 1.371e+05
Integral 7.77e+04
22000
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
−5
−4
−3
−2
−1
0
1
2
3
4
5


BH2-D First_SUM [ns]
Entries 66069
Mean 0.05153
Std Dev 0.9602
Underflow 0
Overflow 0
Integral 6.607e+04
22000
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
−5
−4
−3
−2
−1
0
1
2
3
4
5