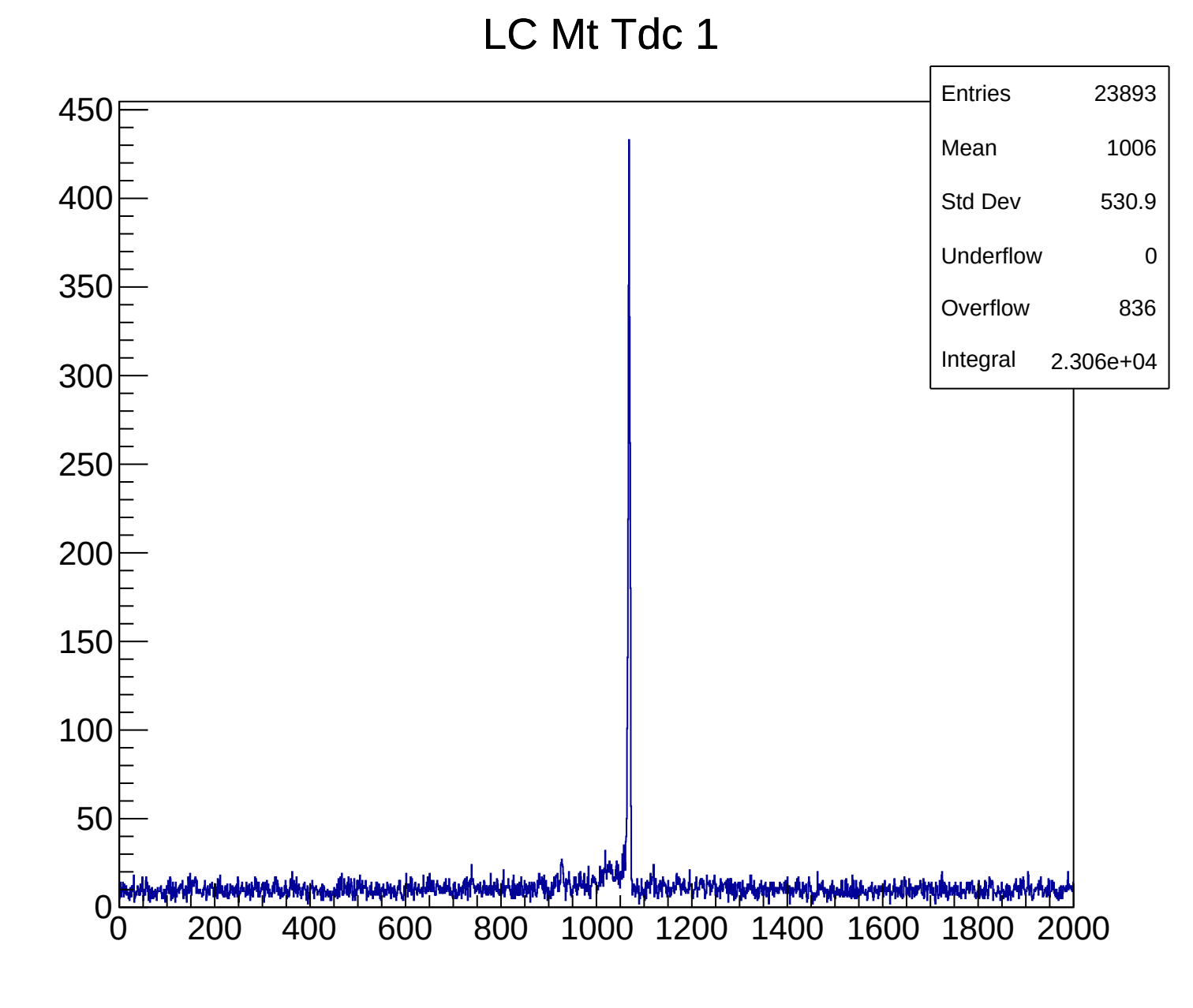
LC Mt Tdc 1
Entries 23893
Mean 1006
Std Dev 530.9
Underflow 0
Overflow 836
Integral 2.306e+04
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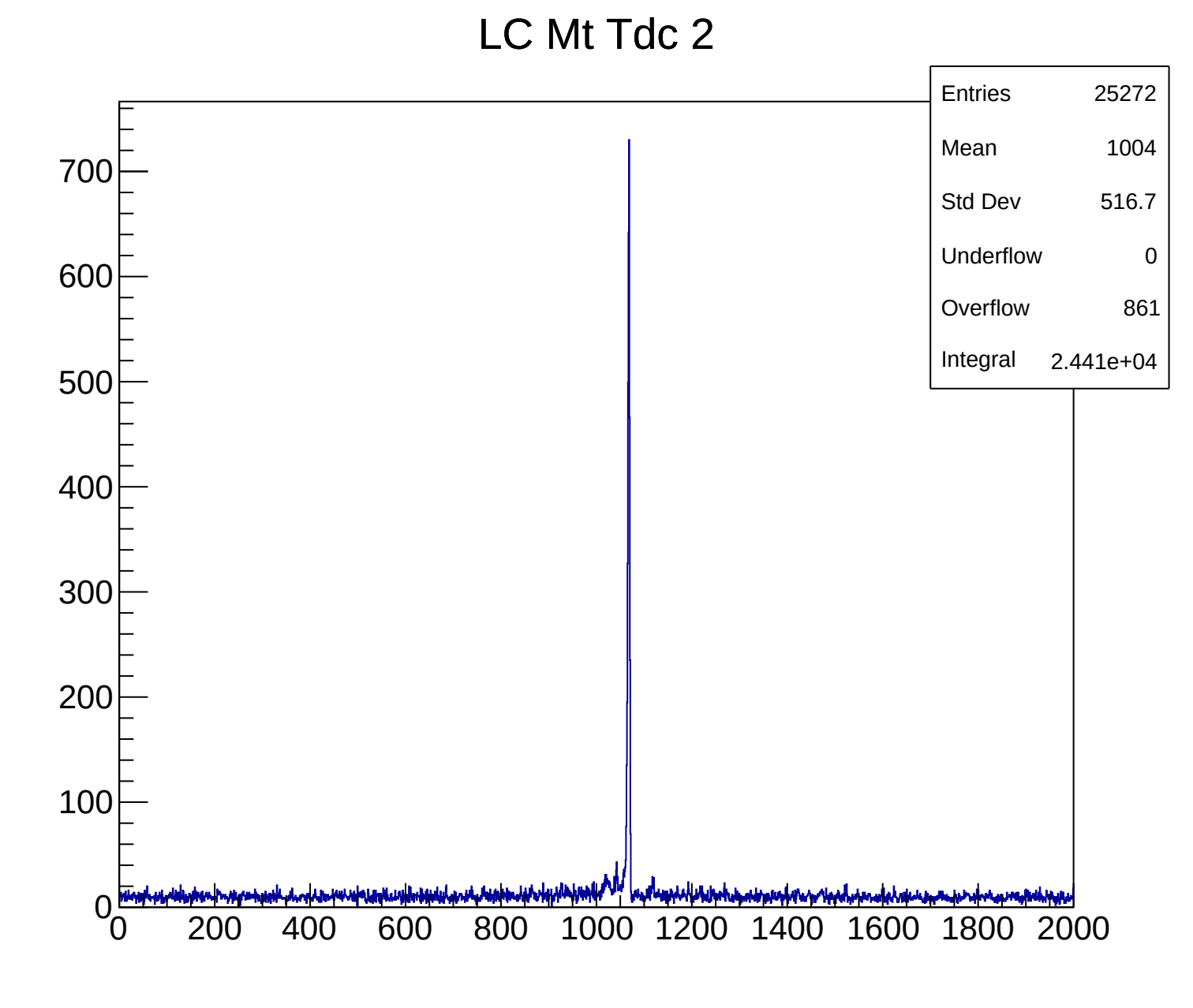
LC Mt Tdc 2
Entries 25272
Mean 1004
Std Dev 516.7
Underflow 0
Overflow 861
Integral 2.441e+04
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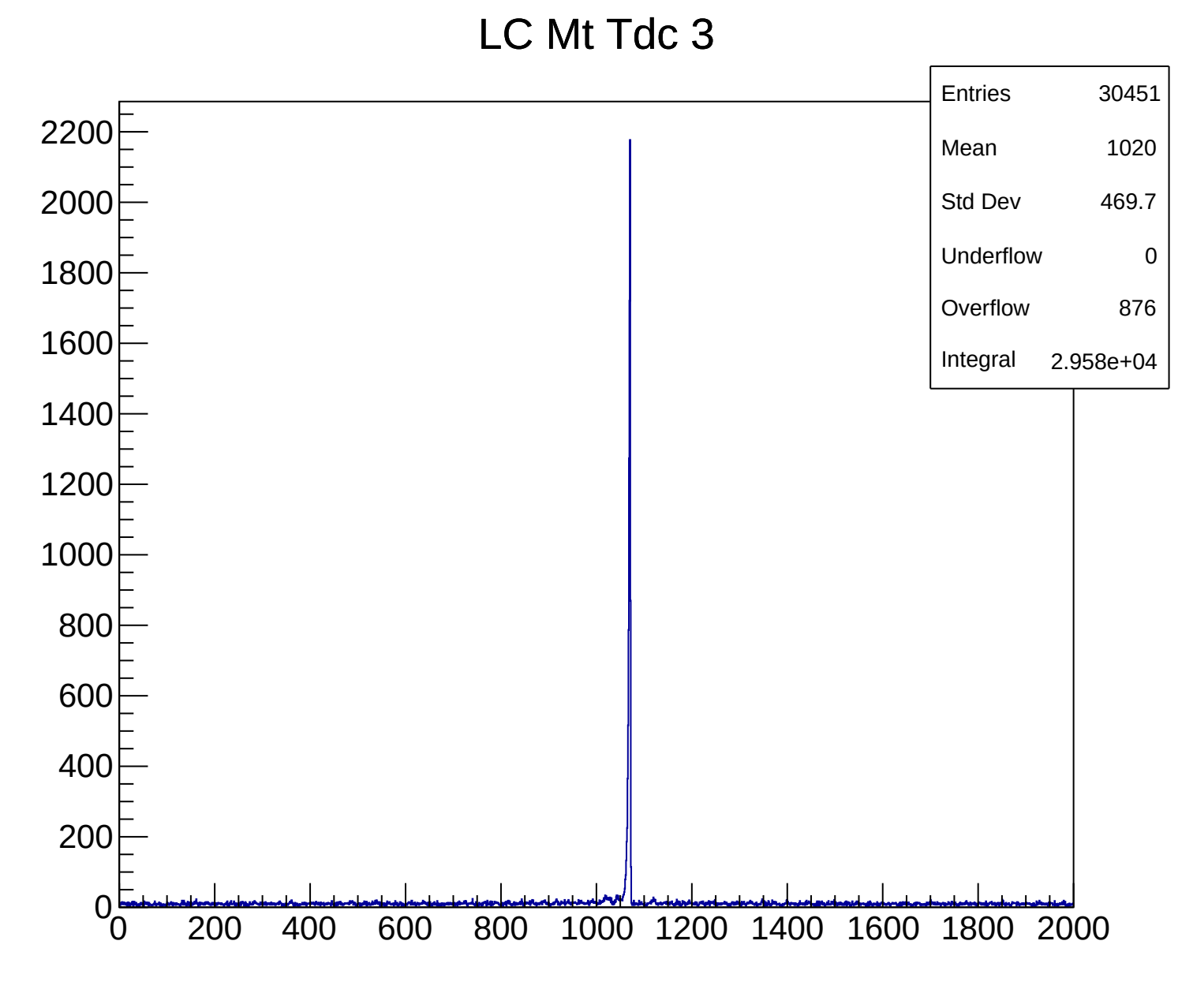
LC Mt Tdc 3
Entries 30451
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Std Dev 469.7
Underflow 0
Overflow 876
Integral 2.958e+04
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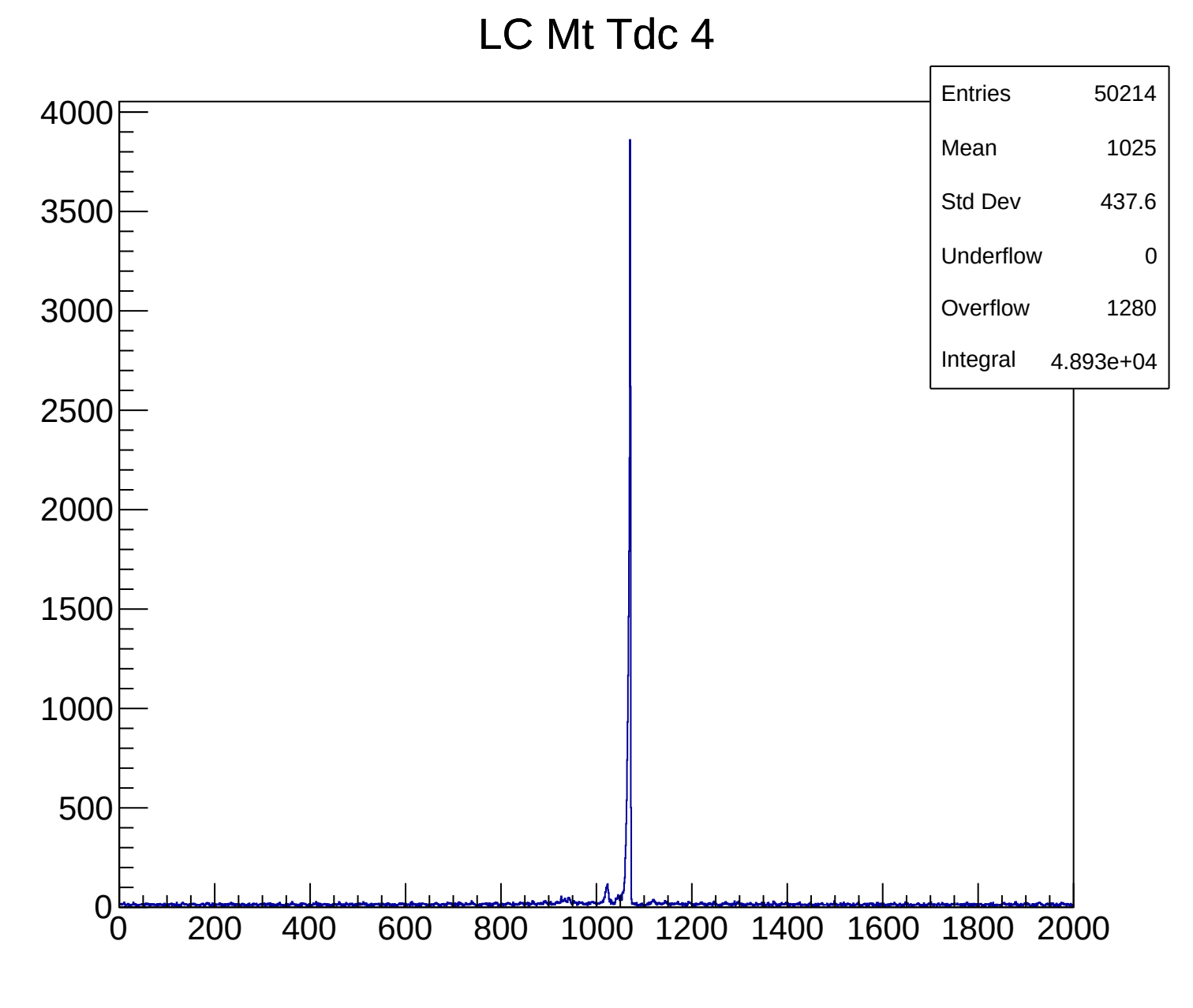
LC Mt Tdc 4
Entries 50214
Mean 1025
Std Dev 437.6
Underflow 0
Overflow 1280
Integral 4.893e+04
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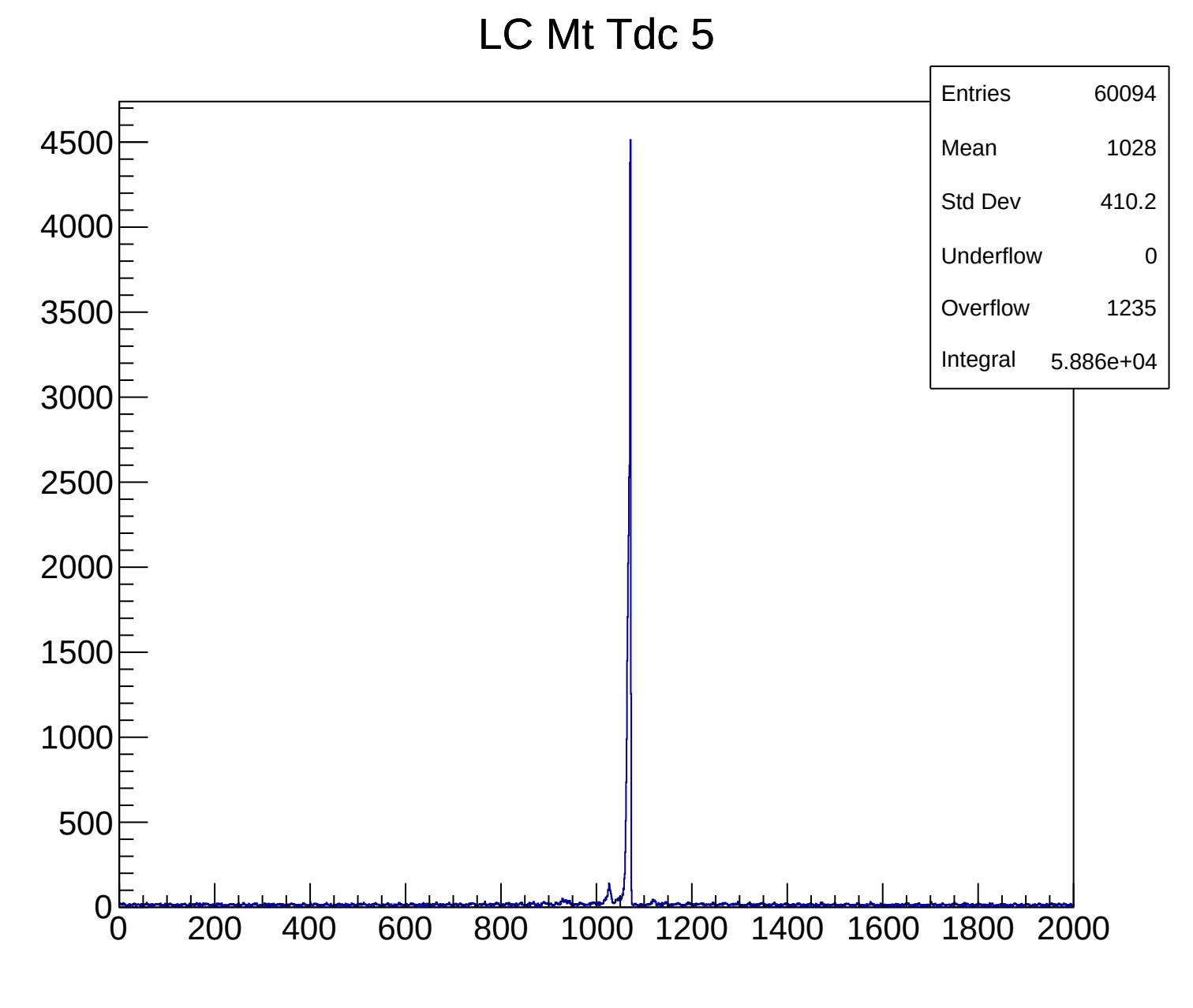
LC Mt Tdc 5
Entries 60094
Mean 1028
Std Dev 410.2
Underflow 0
Overflow 1235
Integral 5.886e+04
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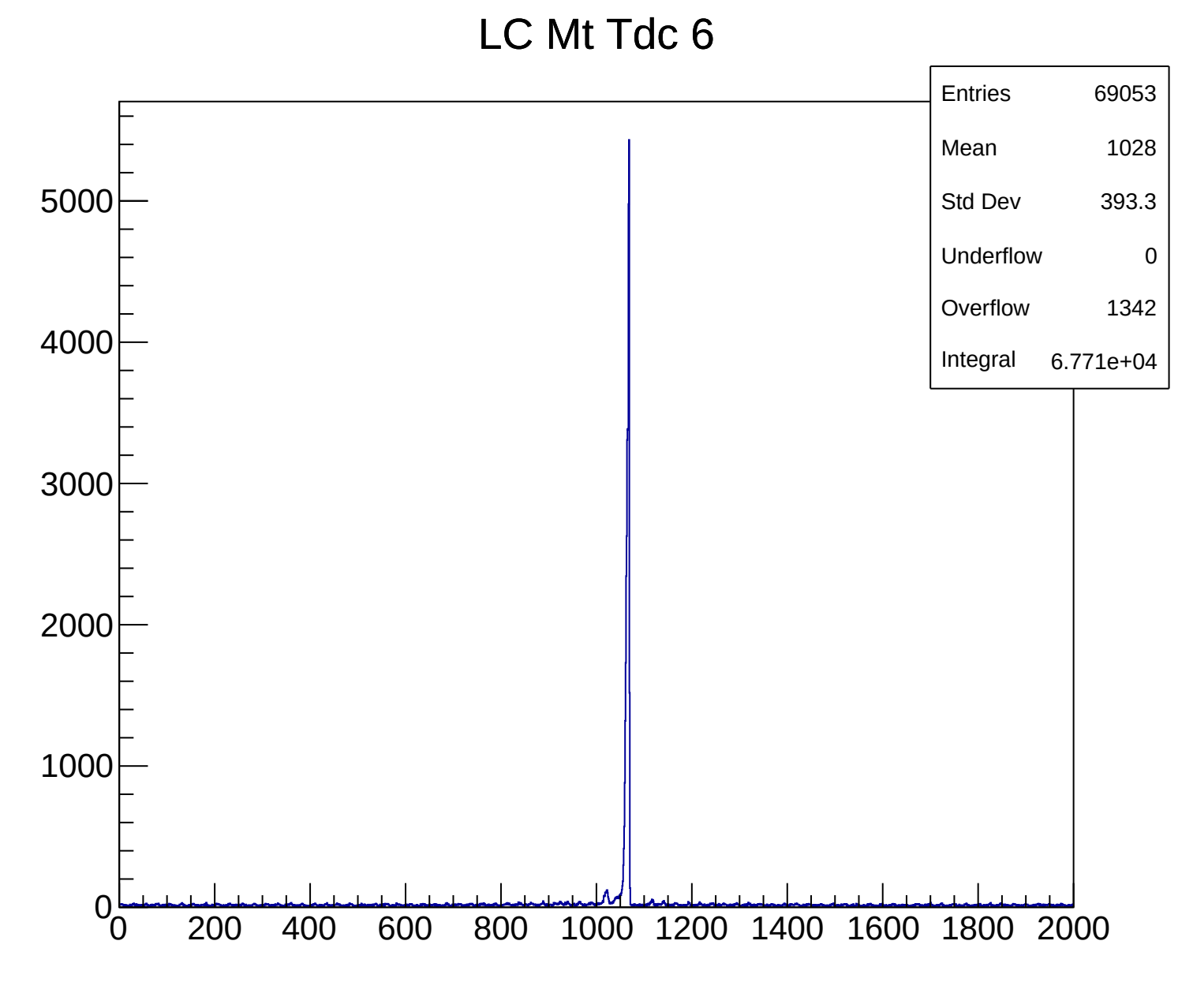
LC Mt Tdc 6
Entries 69053
Mean 1028
Std Dev 393.3
Underflow 0
Overflow 1342
Integral 6.771e+04
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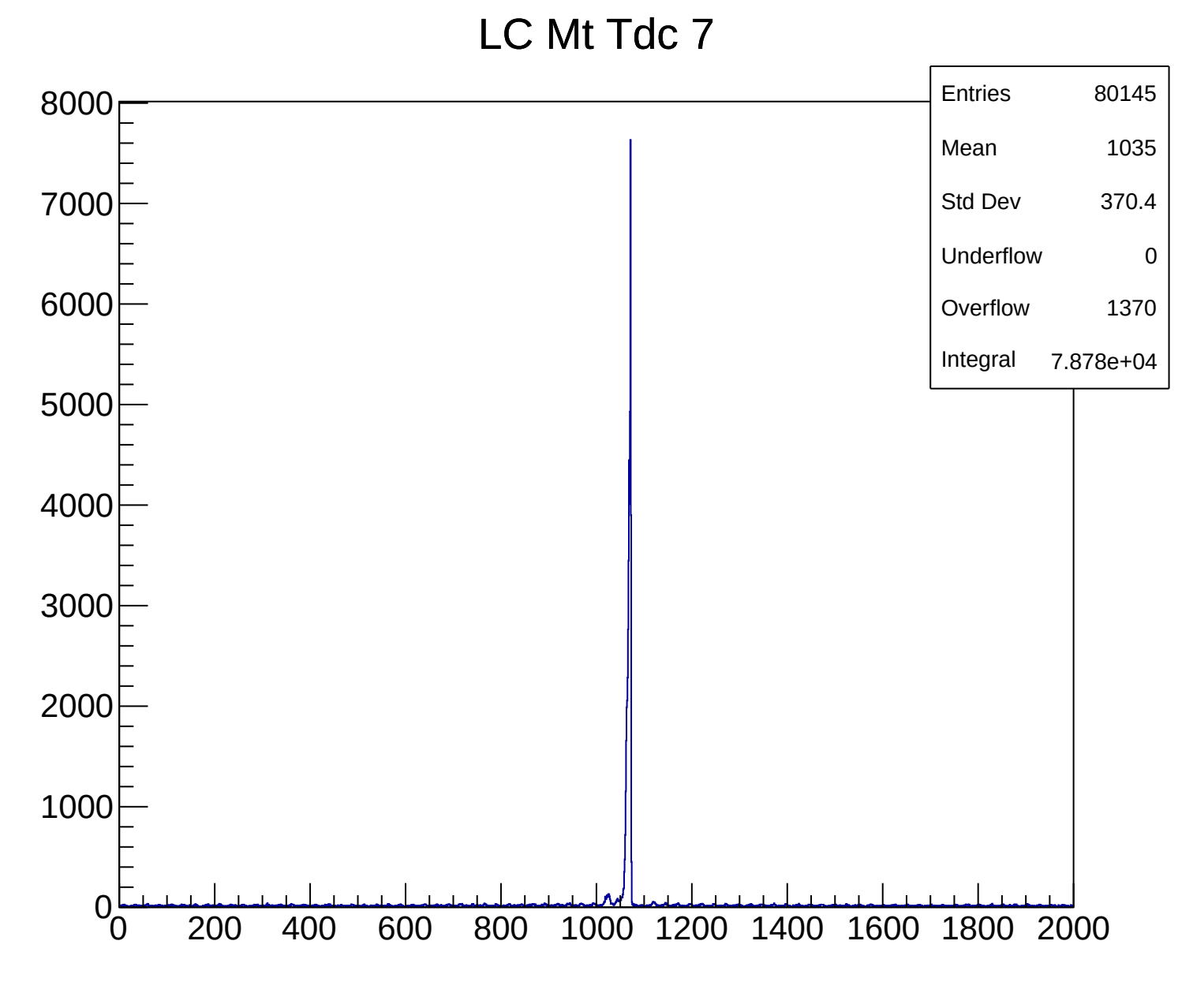
LC Mt Tdc 7
Entries 80145
Mean 1035
Std Dev 370.4
Underflow 0
Overflow 1370
Integral 7.878e+04
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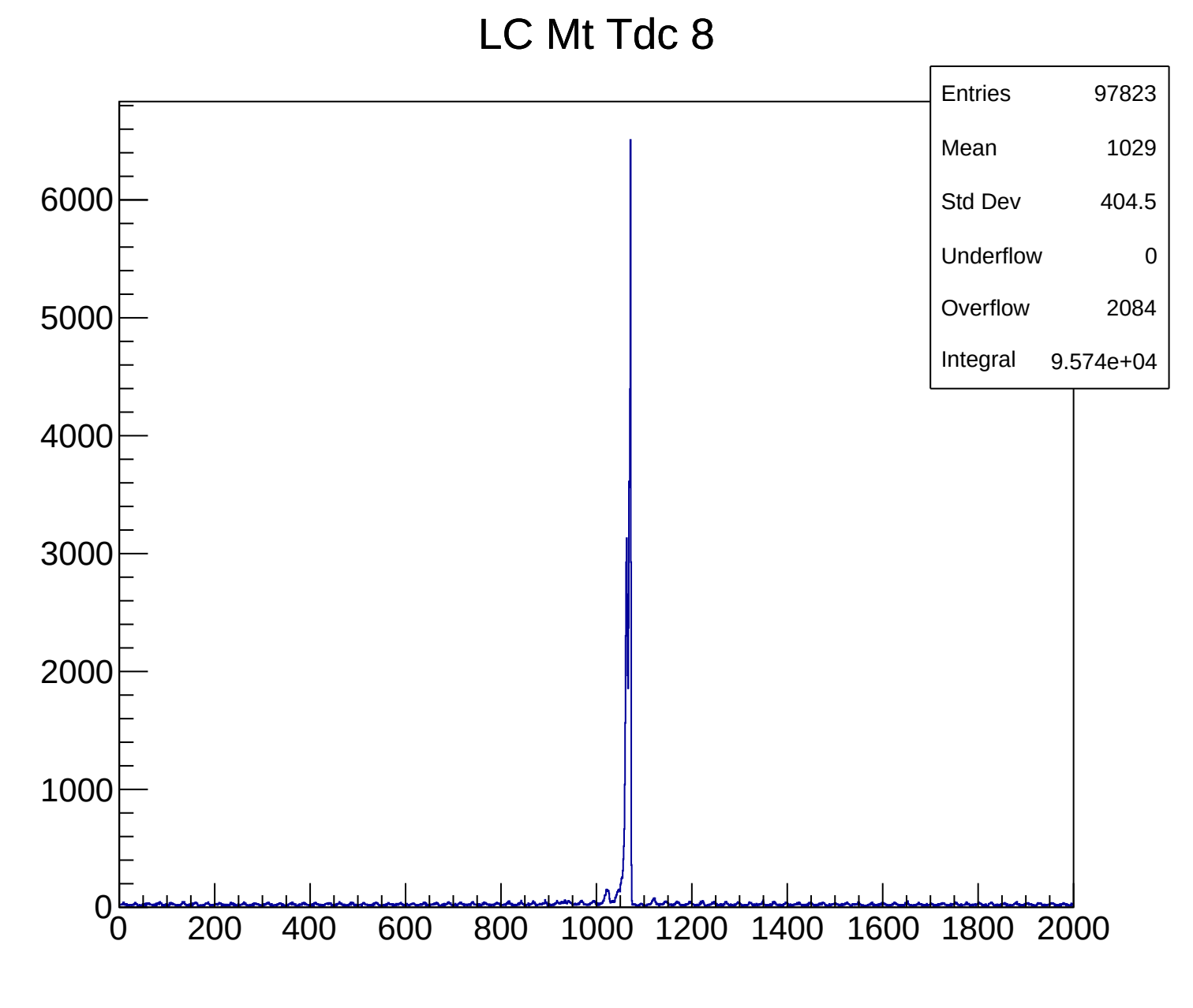
LC Mt Tdc 8
Entries 97823
Mean 1029
Std Dev 404.5
Underflow 0
Overflow 2084
Integral 9.574e+04
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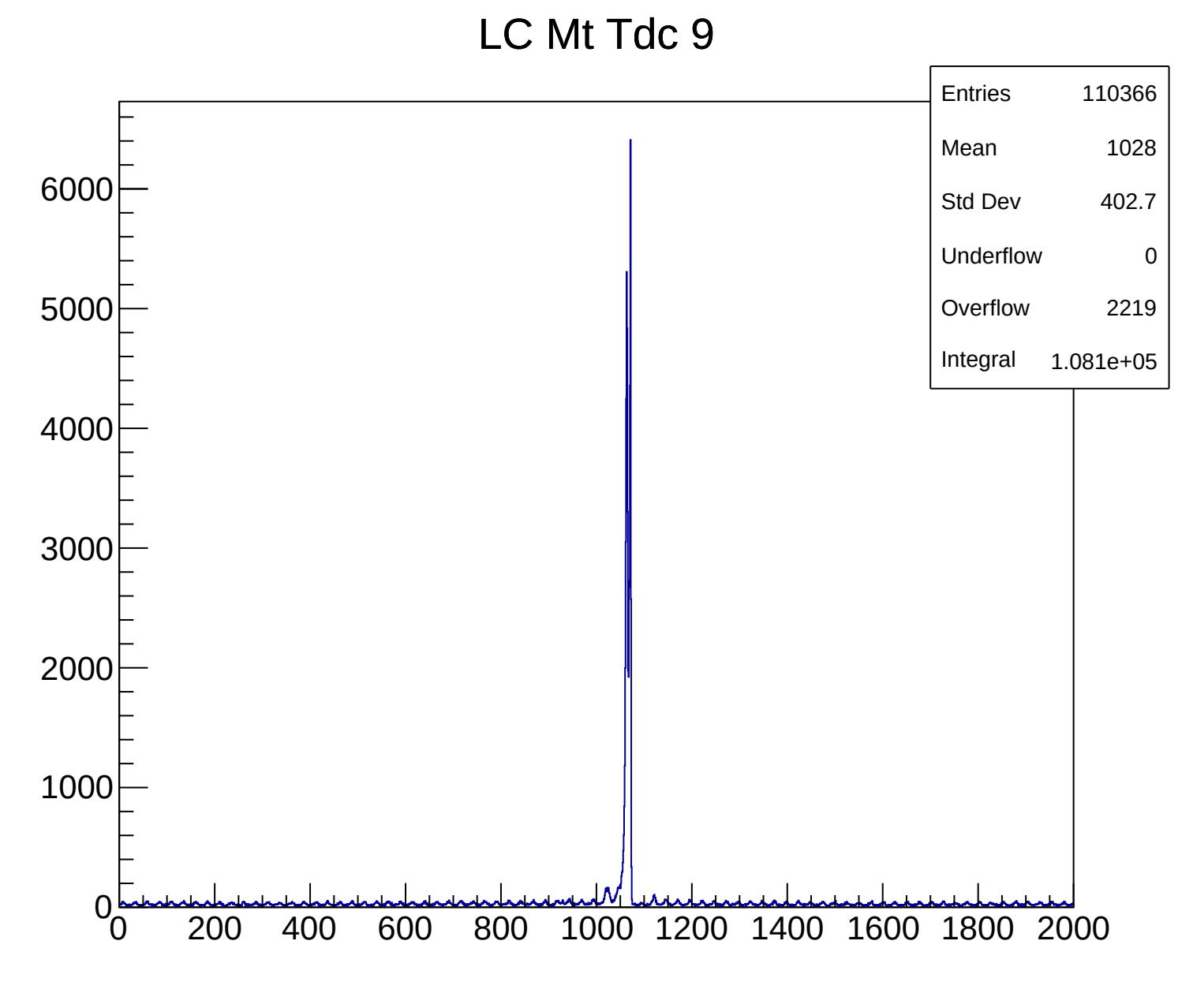
LC Mt Tdc 9
Entries 110366
Mean 1028
Std Dev 402.7
Underflow 0
Overflow 2219
Integral 1.081e+05
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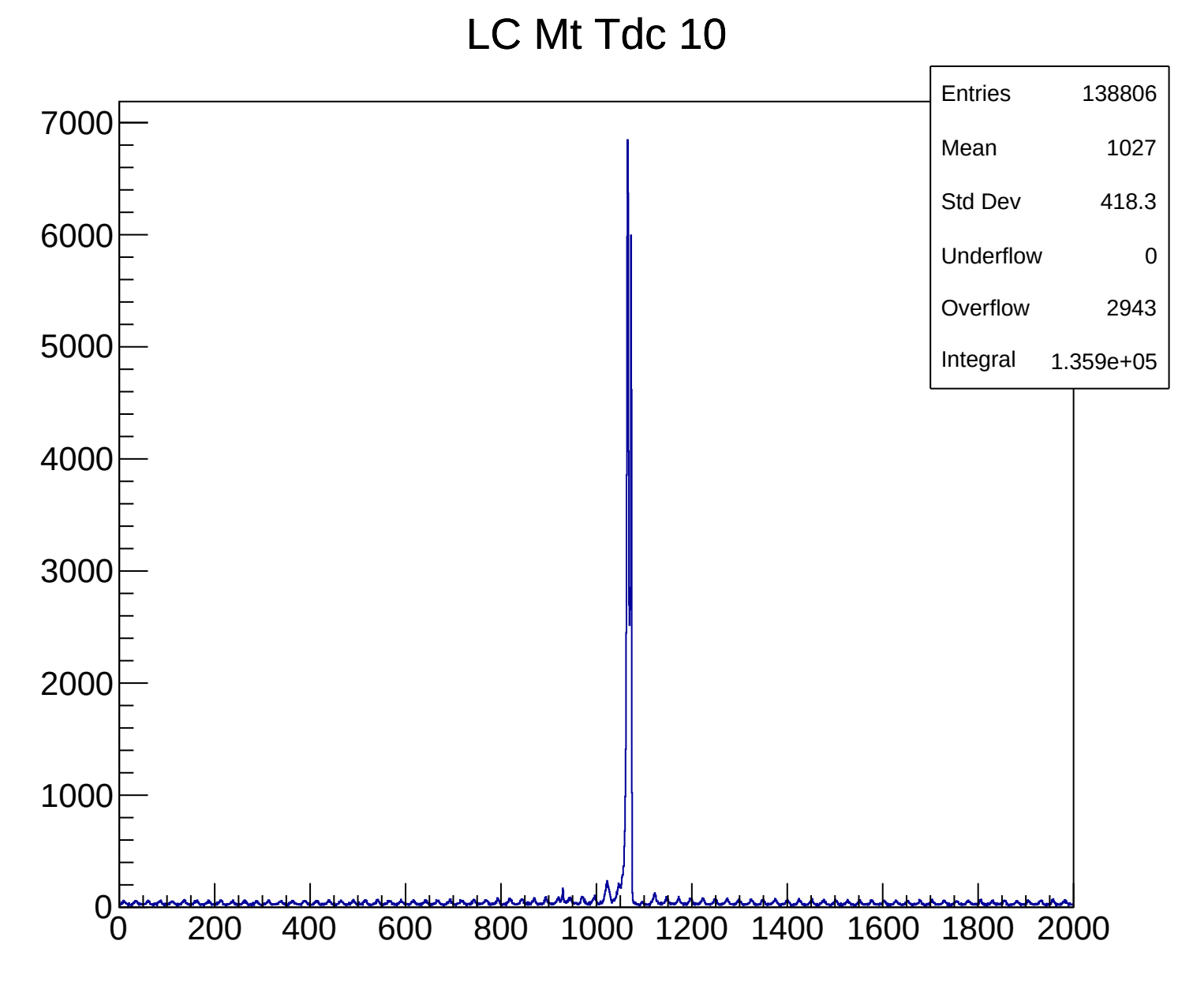
LC Mt Tdc 10
Entries 138806
Mean 1027
Std Dev 418.3
Underflow 0
Overflow 2943
Integral 1.359e+05
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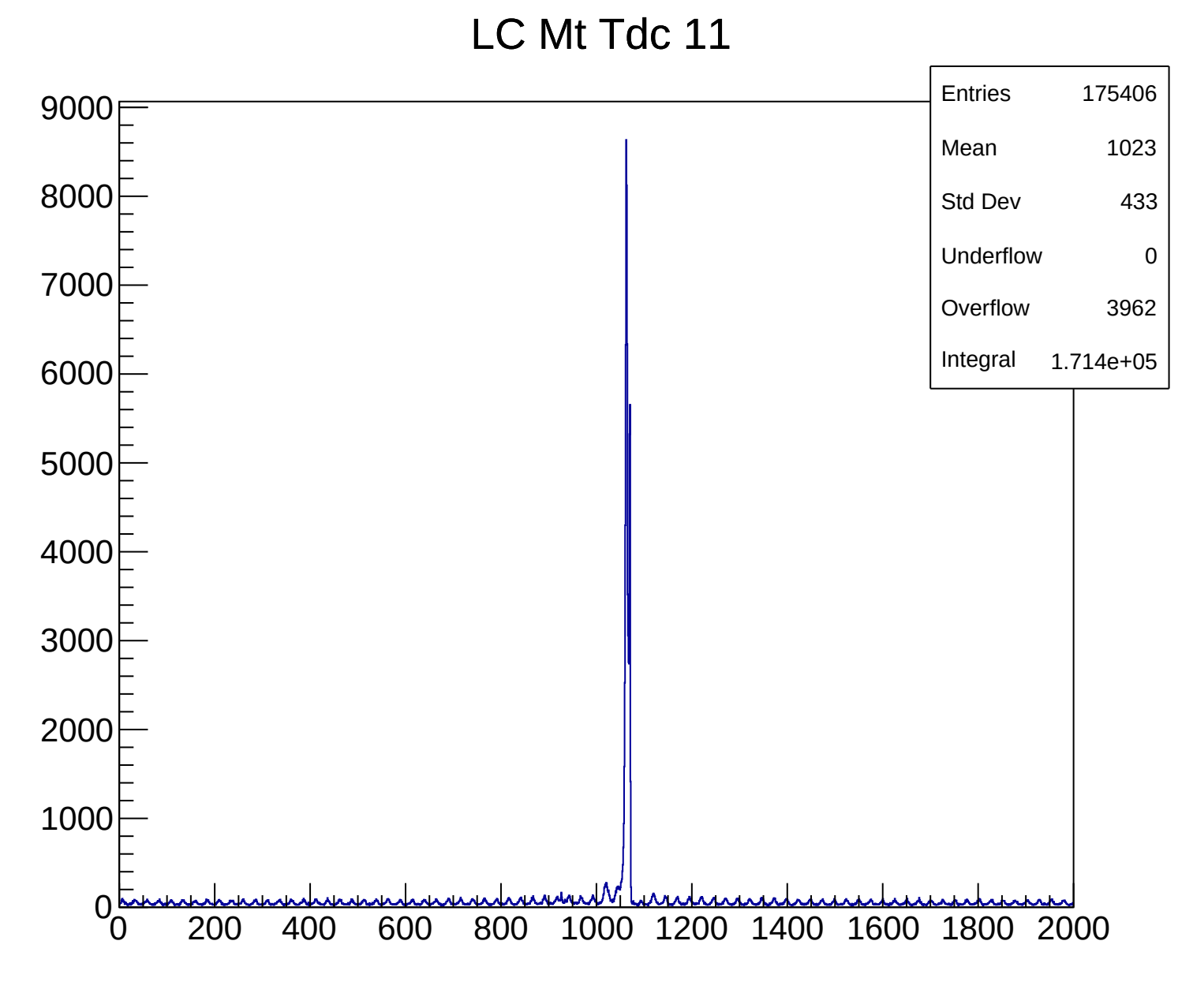
LC Mt Tdc 11
Entries 175406
Mean 1023
Std Dev 433
Underflow 0
Overflow 3962
Integral 1.714e+05
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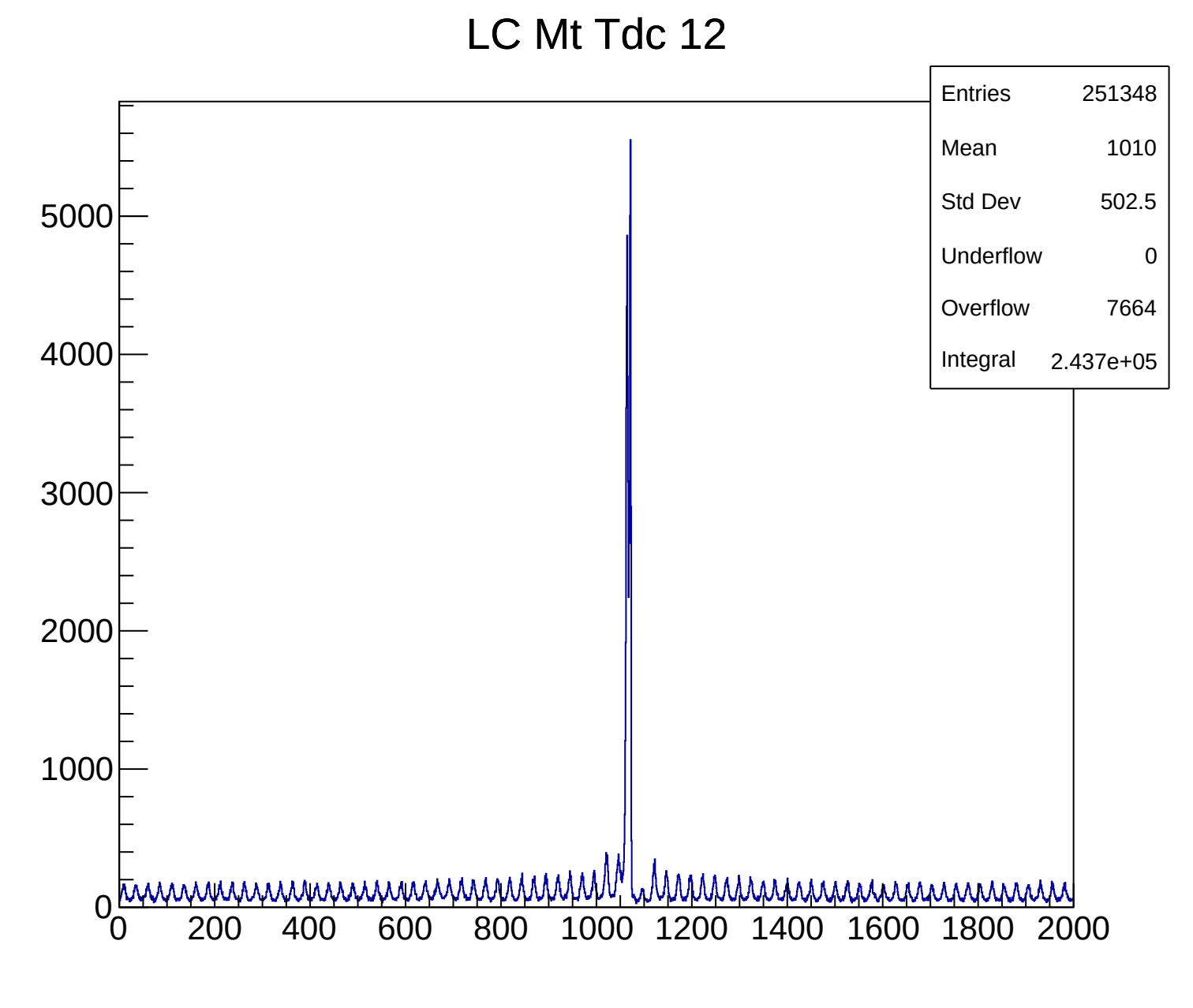
LC Mt Tdc 12
Entries 251348
Mean 1010
Std Dev 502.5
Underflow 0
Overflow 7664
Integral 2.437e+05
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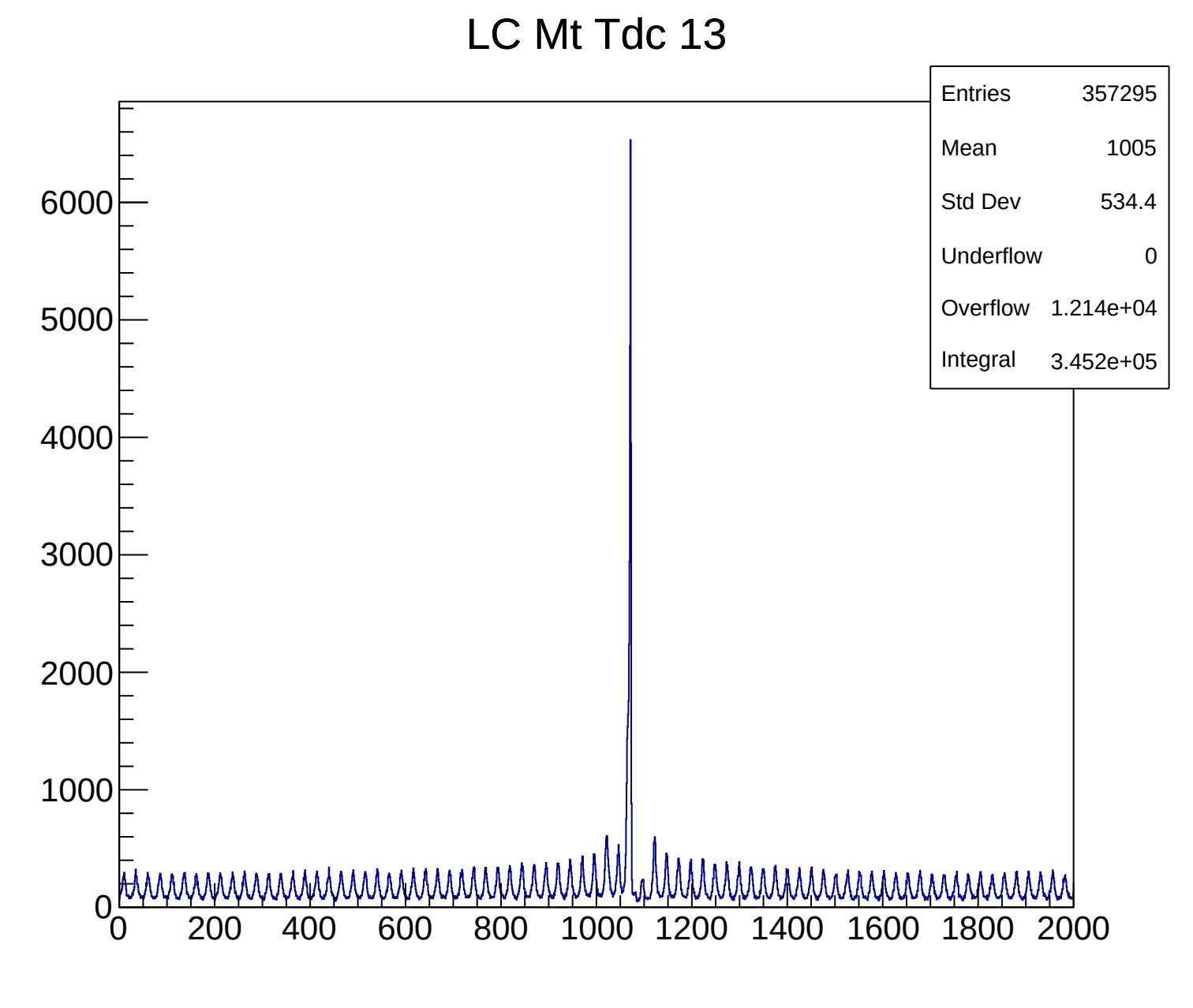
LC Mt Tdc 13
Entries 357295
Mean 1005
Std Dev 534.4
Underflow 0
Overflow 1.214e+04
Integral 3.452e+05
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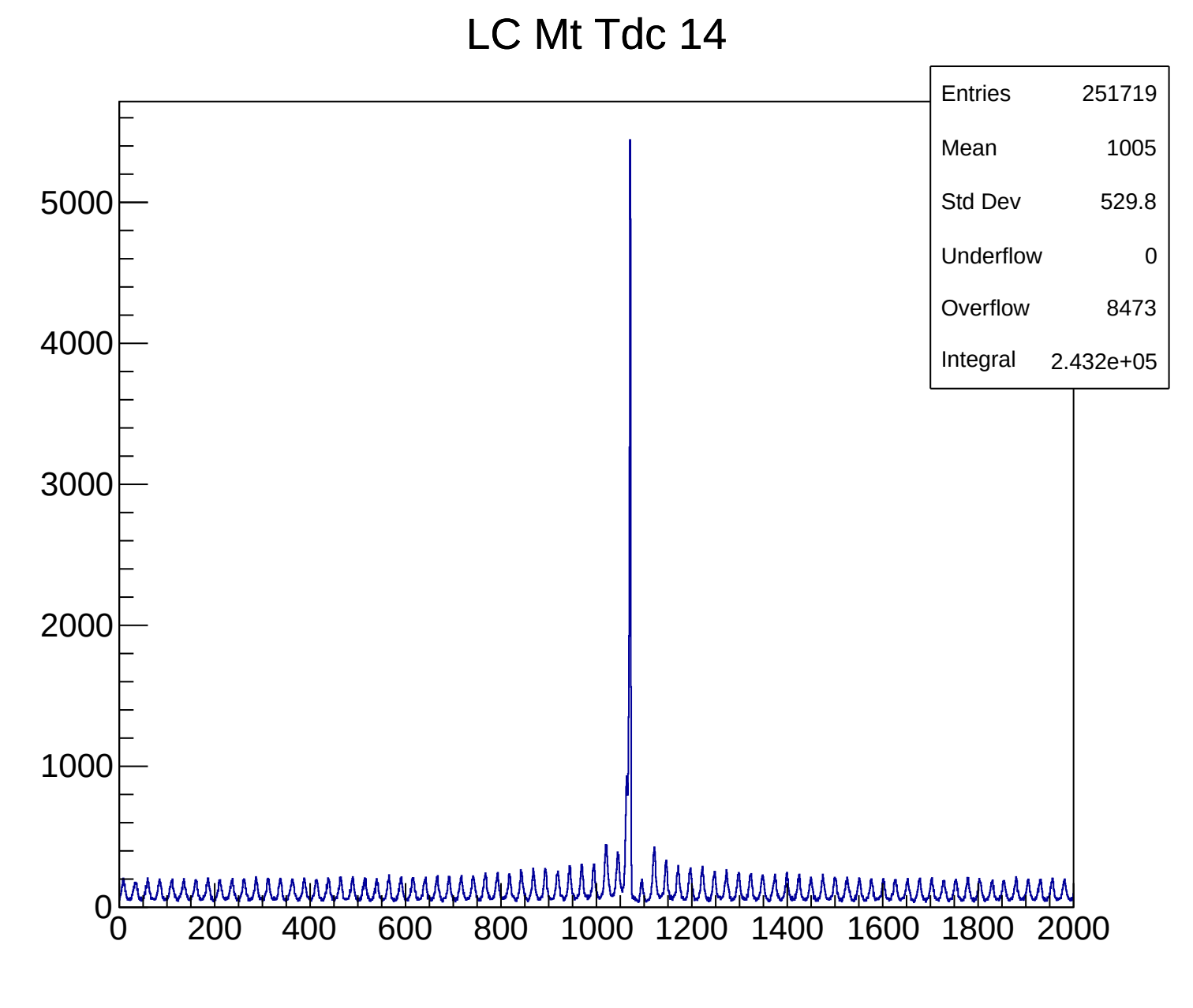
LC Mt Tdc 14
Entries 251719
Mean 1005
Std Dev 529.8
Underflow 0
Overflow 8473
Integral 2.432e+05
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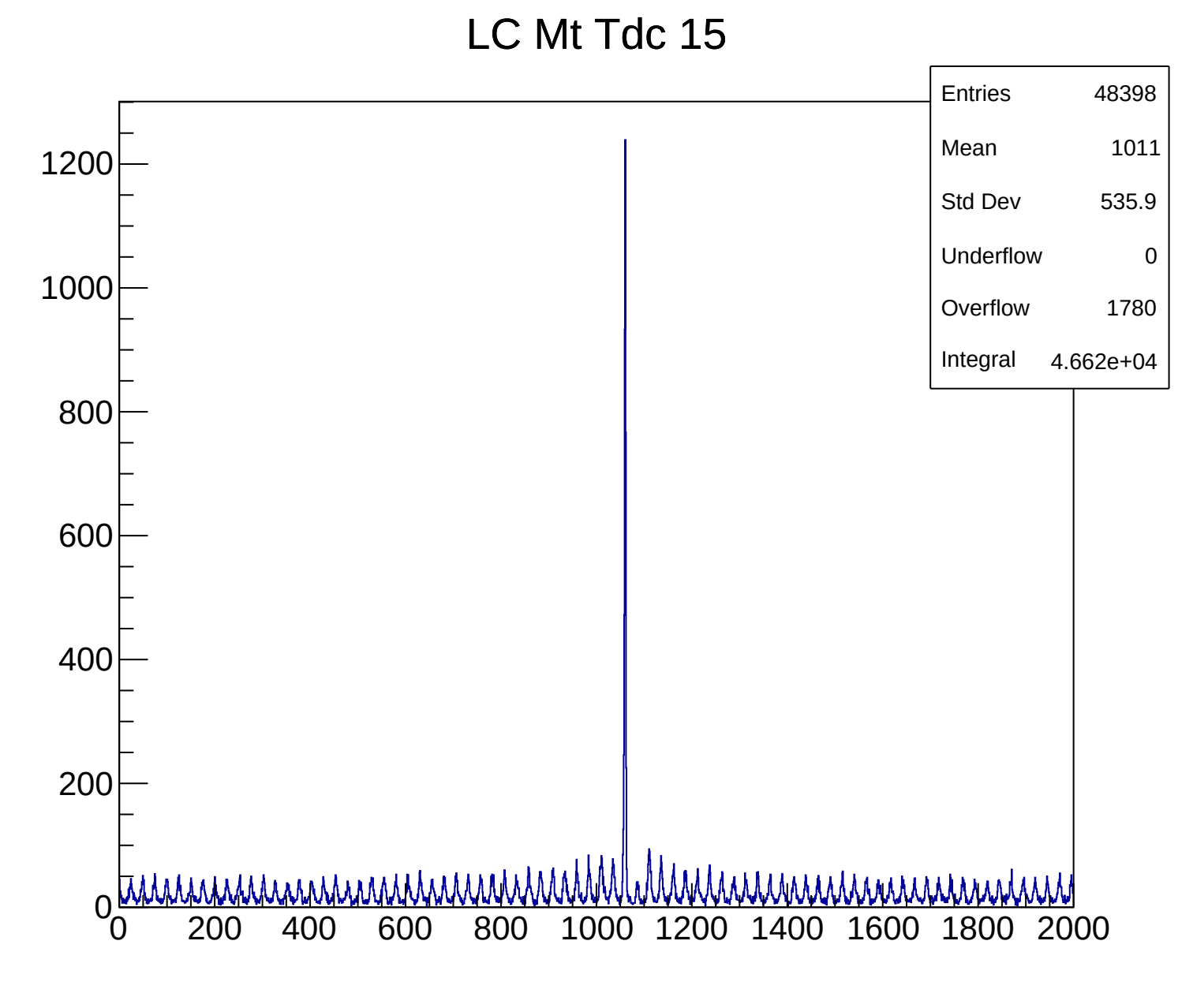
LC Mt Tdc 15
Entries 48398
Mean 1011
Std Dev 535.9
Underflow 0
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Integral 4.662e+04
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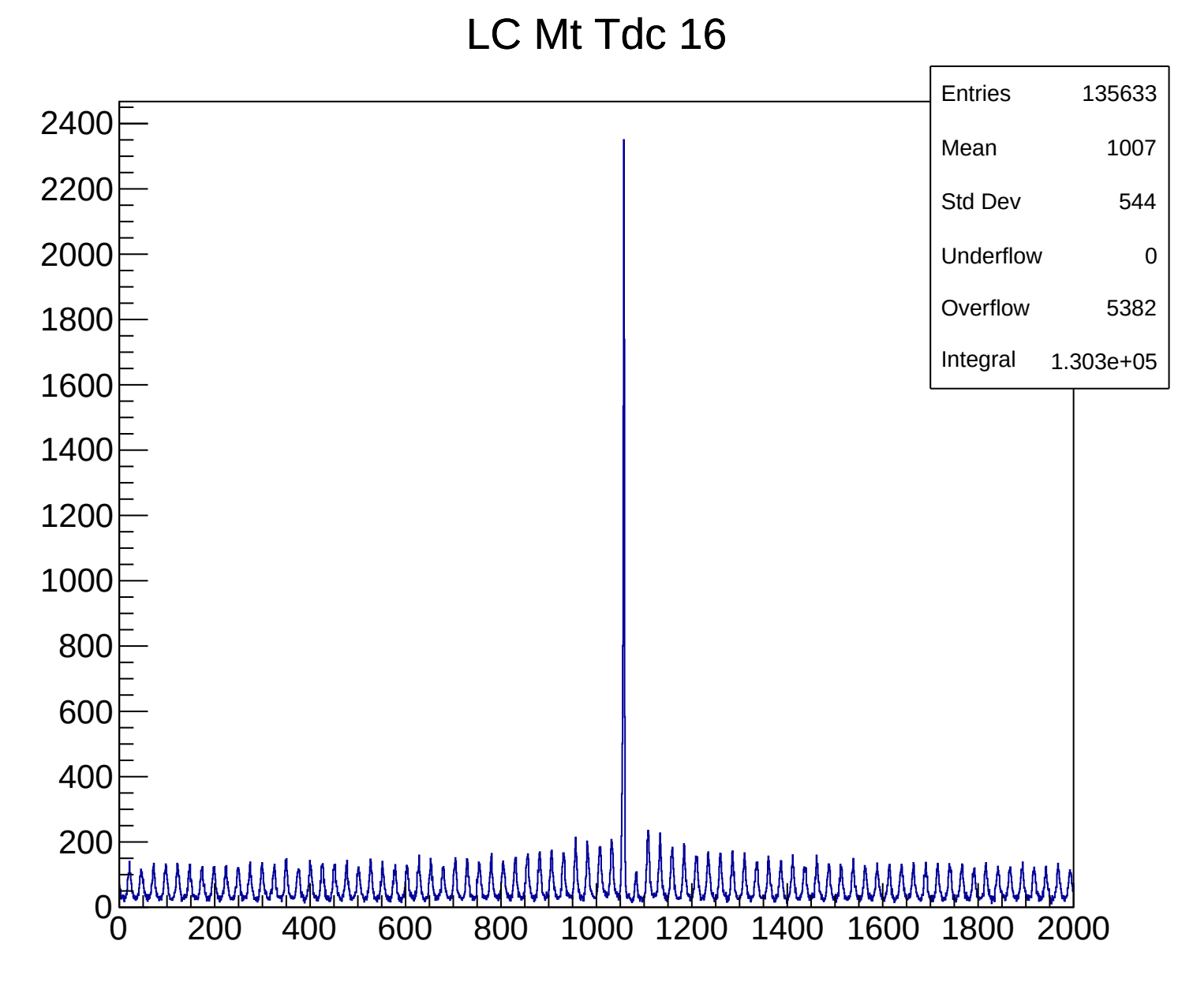
LC Mt Tdc 16
Entries 135633
Mean 1007
Std Dev 544
Underflow 0
Overflow 5382
Integral 1.303e+05
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2200
2000
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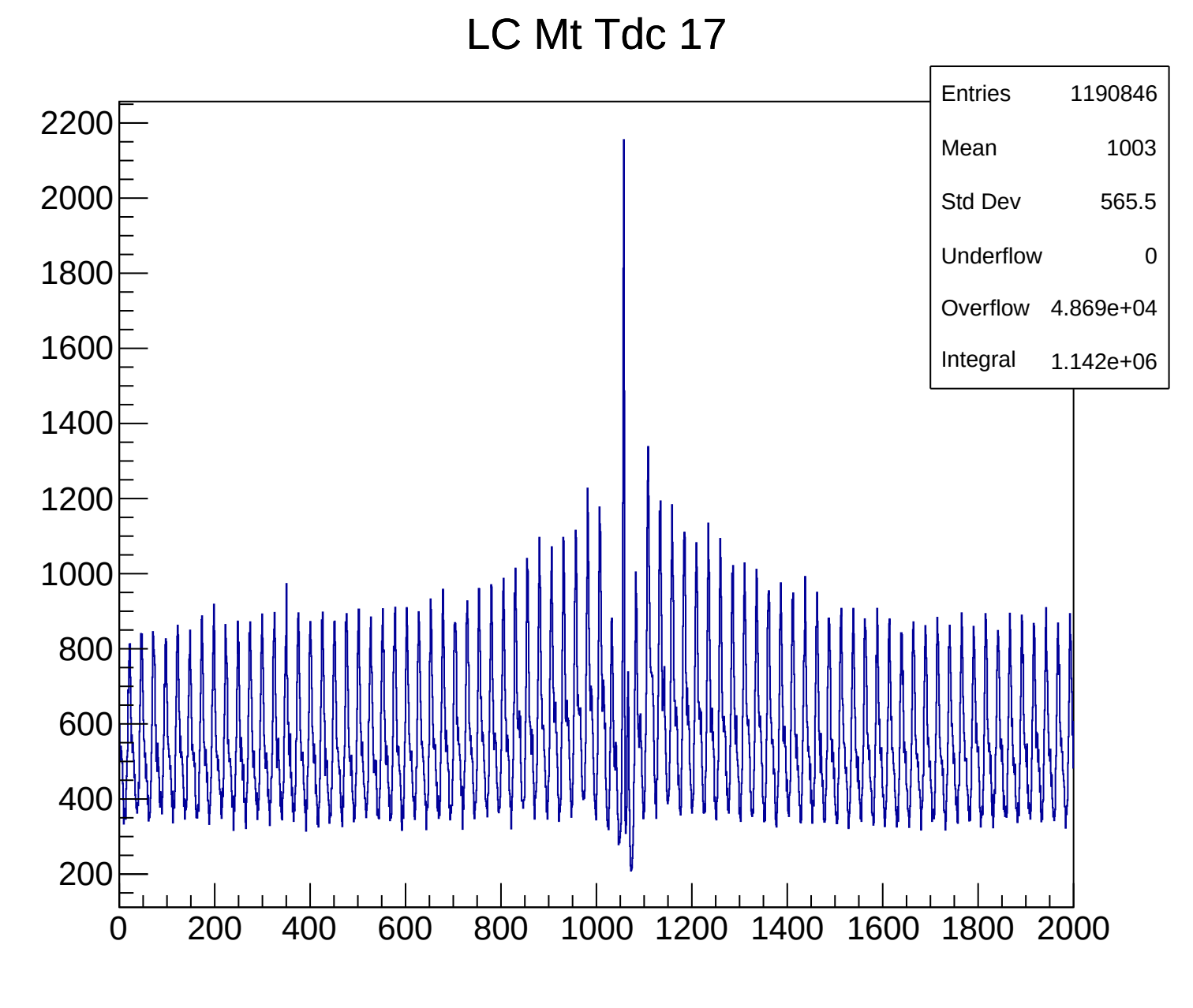
LC Mt Tdc 17
Entries 1190846
Mean 1003
Std Dev 565.5
Underflow 0
Overflow 4.869e+04
Integral 1.142e+06
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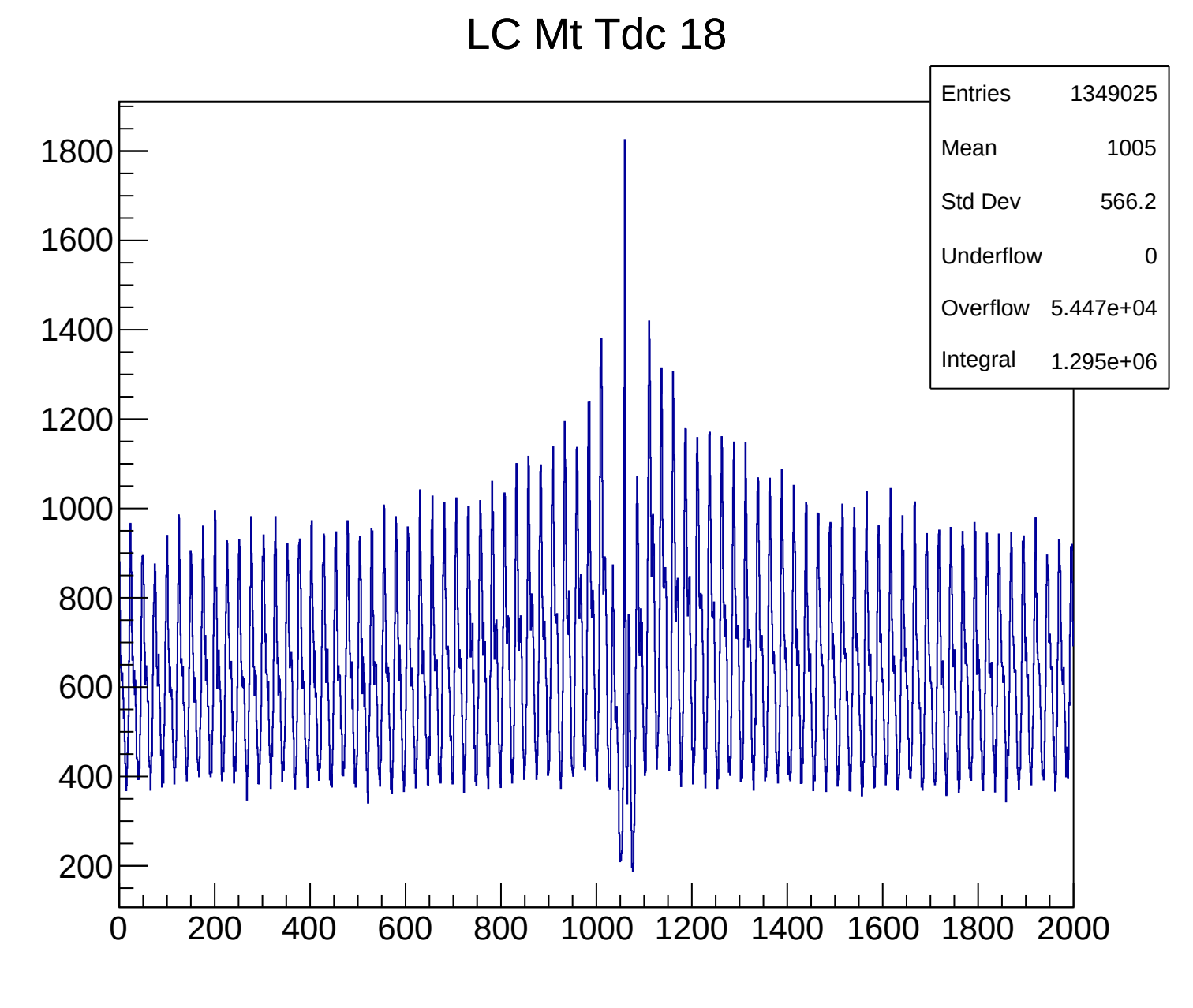
LC Mt Tdc 18
Entries 1349025
Mean 1005
Std Dev 566.2
Underflow 0
Overflow 5.447e+04
Integral 1.295e+06
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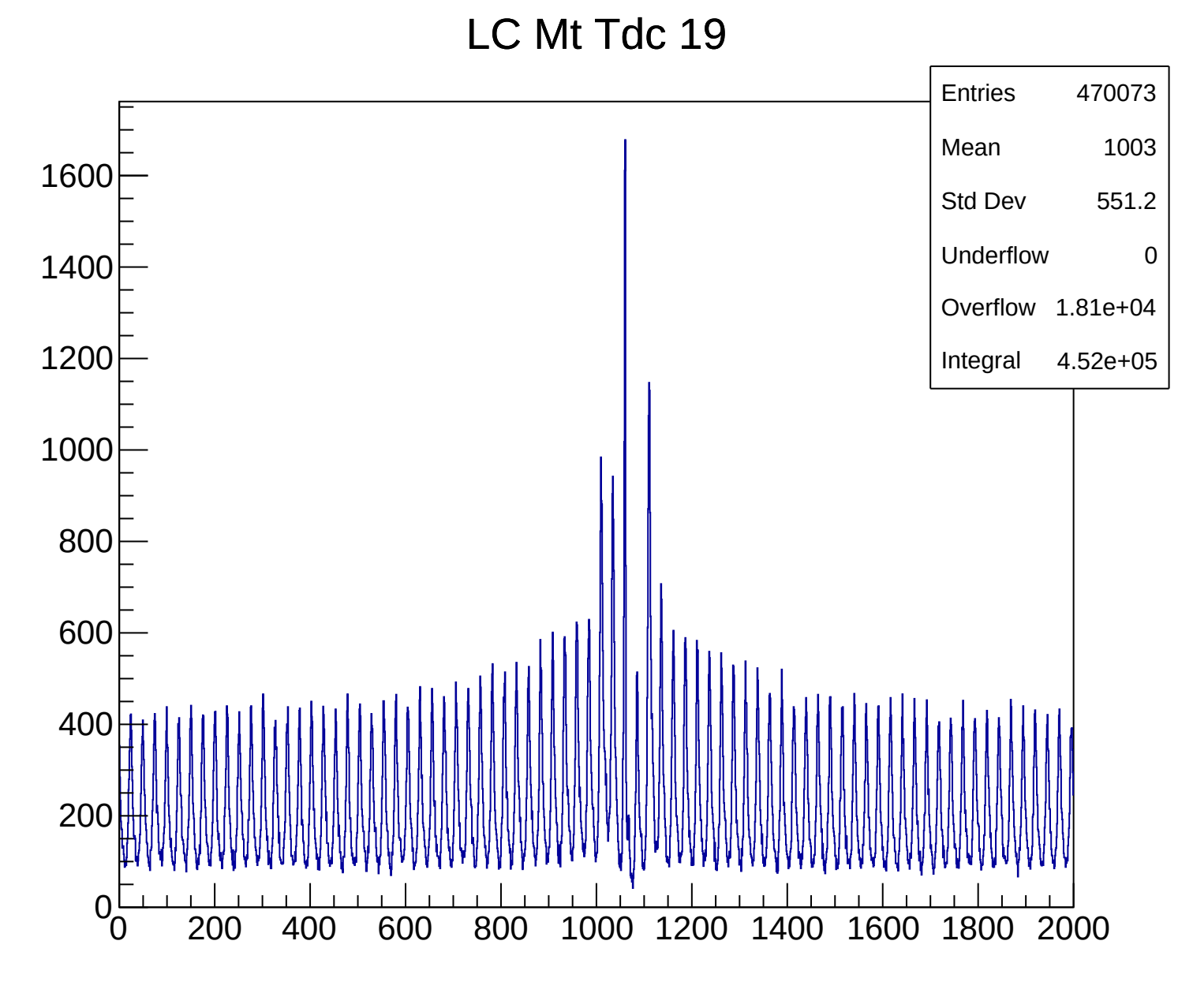
LC Mt Tdc 19
Entries 470073
Mean 1003
Std Dev 551.2
Underflow 0
Overflow 1.81e+04
Integral 4.52e+05
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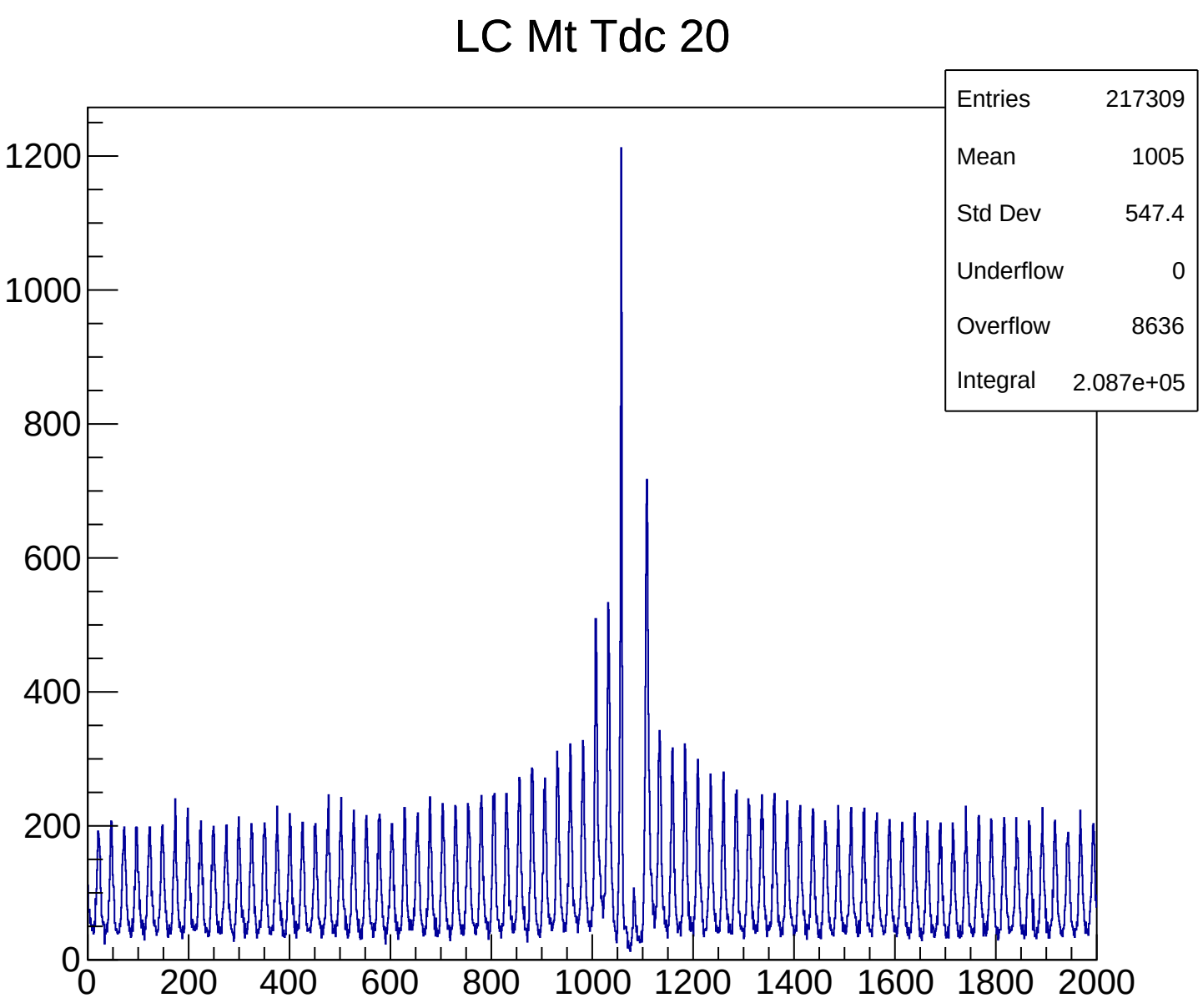
LC Mt Tdc 20
Entries 217309
Mean 1005
Std Dev 547.4
Underflow 0
Overflow 8636
Integral 2.087e+05
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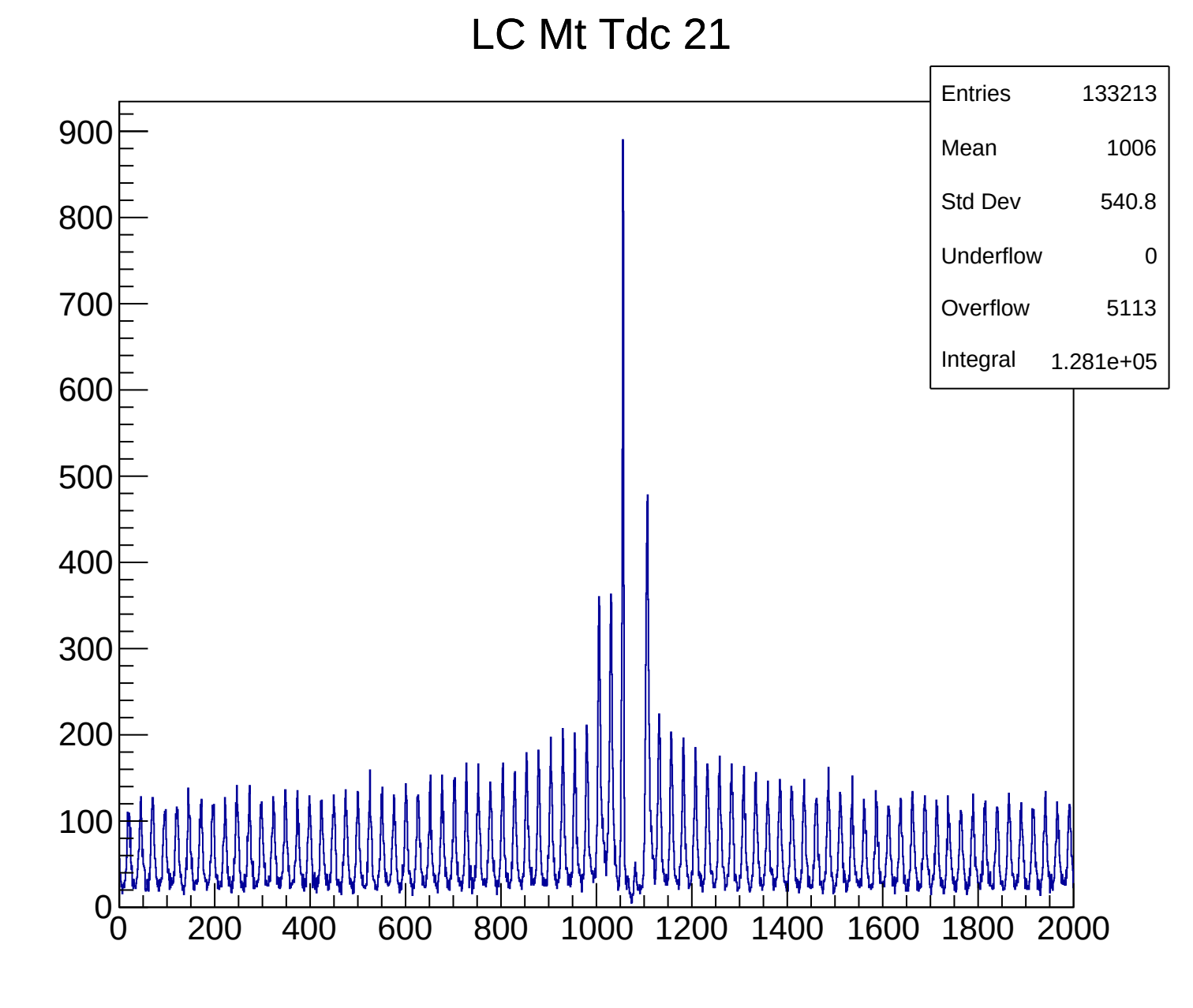
LC Mt Tdc 21
Entries 133213
Mean 1006
Std Dev 540.8
Underflow 0
Overflow 5113
Integral 1.281e+05
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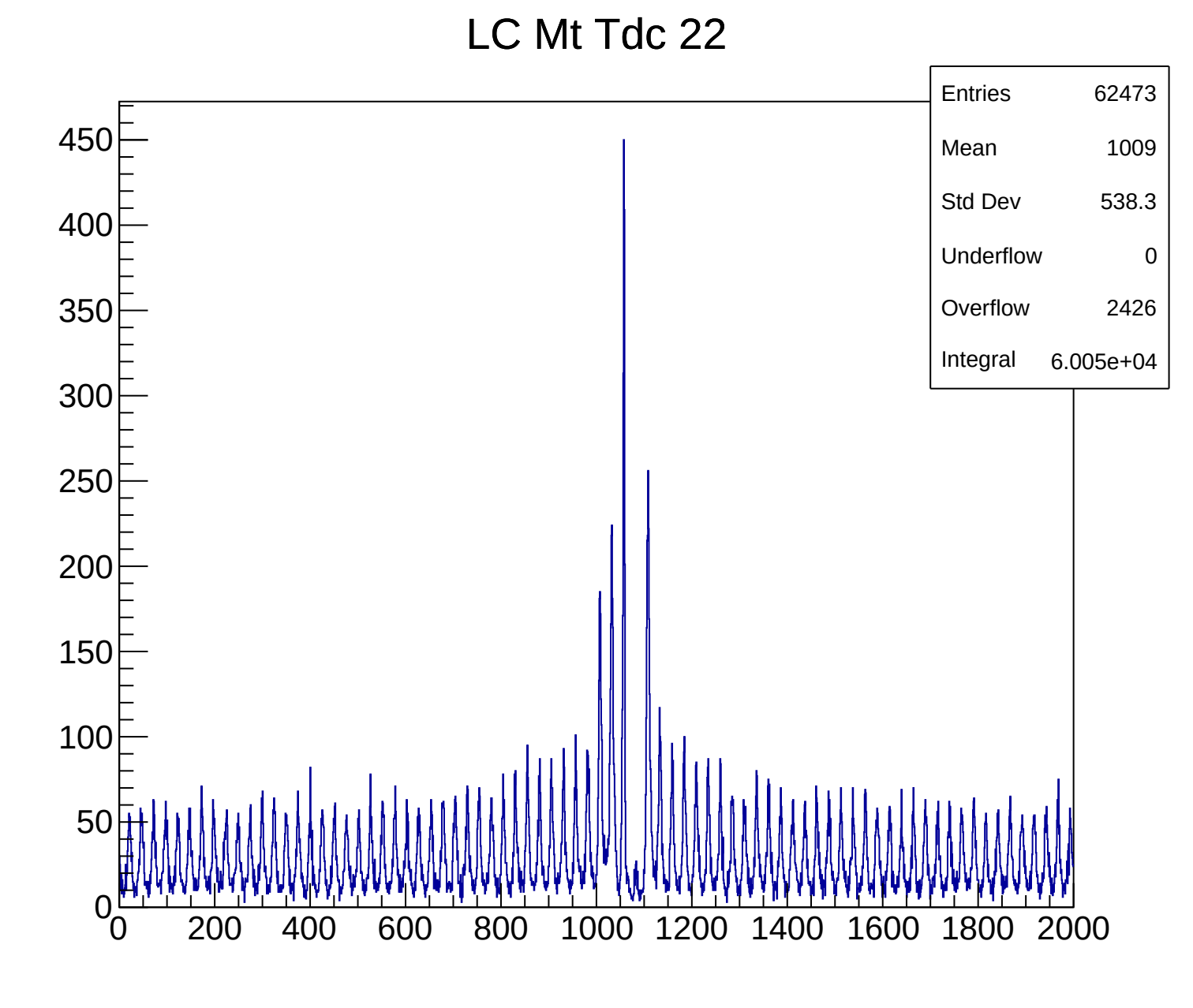
LC Mt Tdc 22
Entries 62473
Mean 1009
Std Dev 538.3
Underflow 0
Overflow 2426
Integral 6.005e+04
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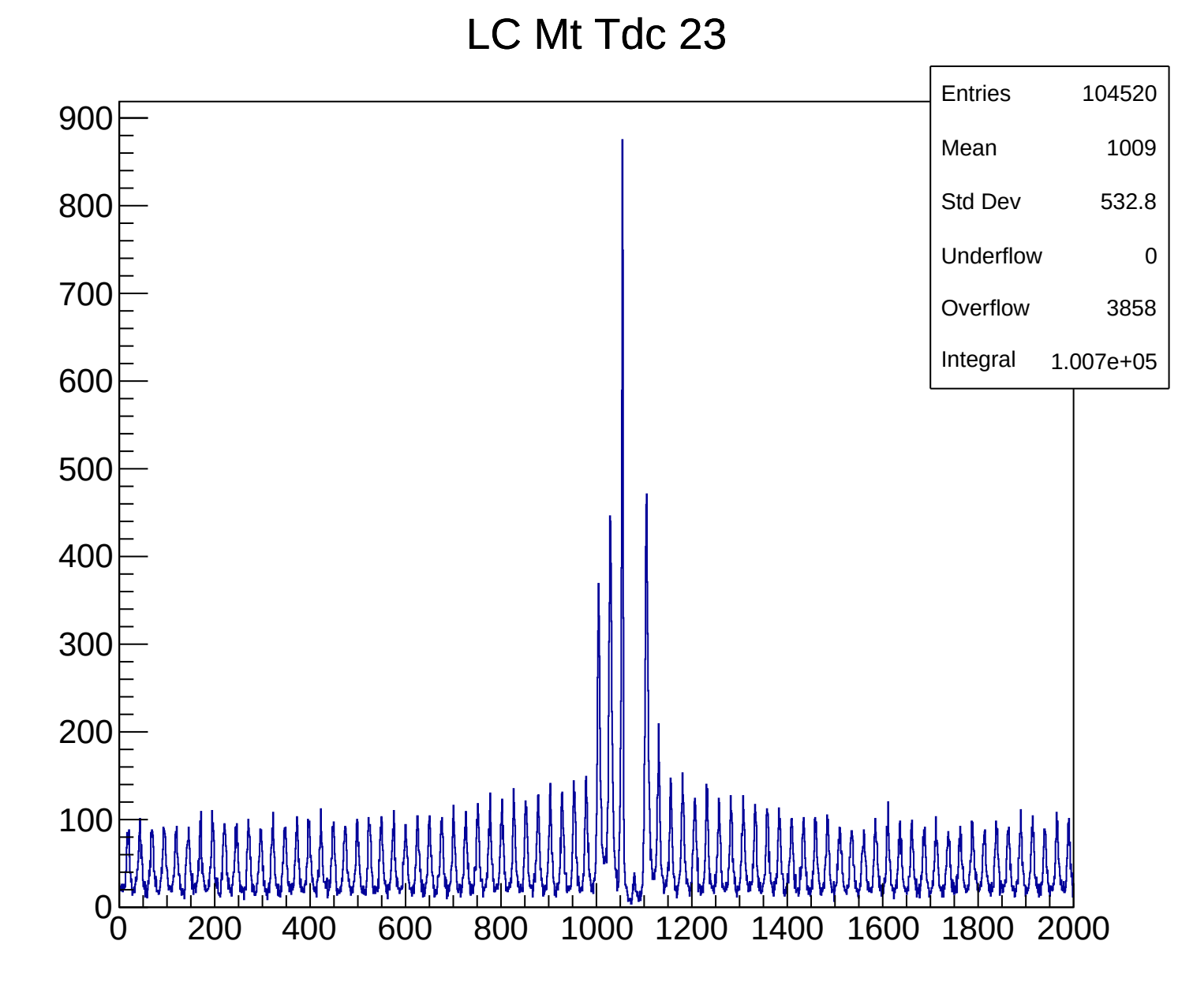
LC Mt Tdc 23
Entries 104520
Mean 1009
Std Dev 532.8
Underflow 0
Overflow 3858
Integral 1.007e+05
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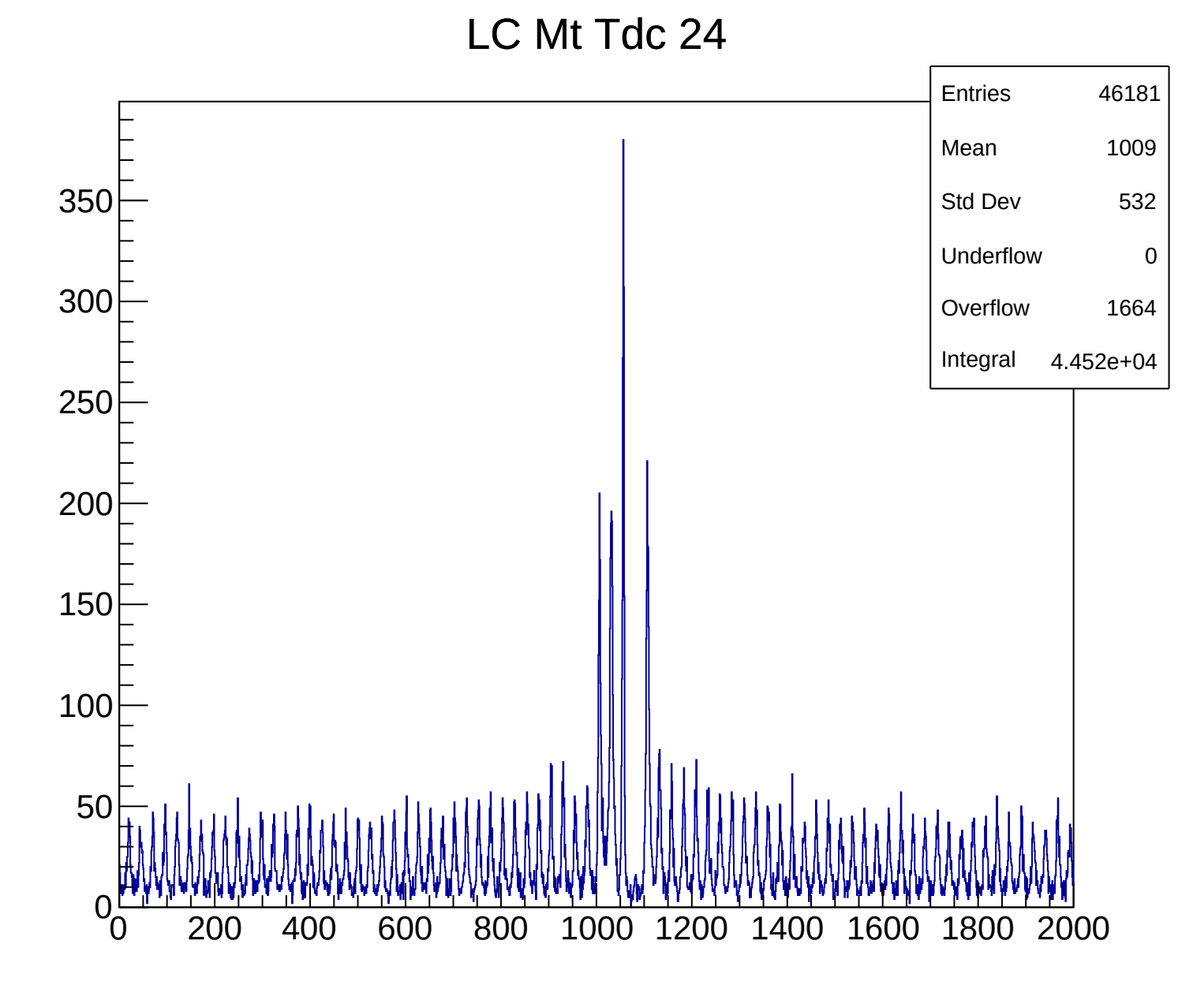
LC Mt Tdc 24
Entries 46181
Mean 1009
Std Dev 532
Underflow 0
Overflow 1664
Integral 4.452e+04
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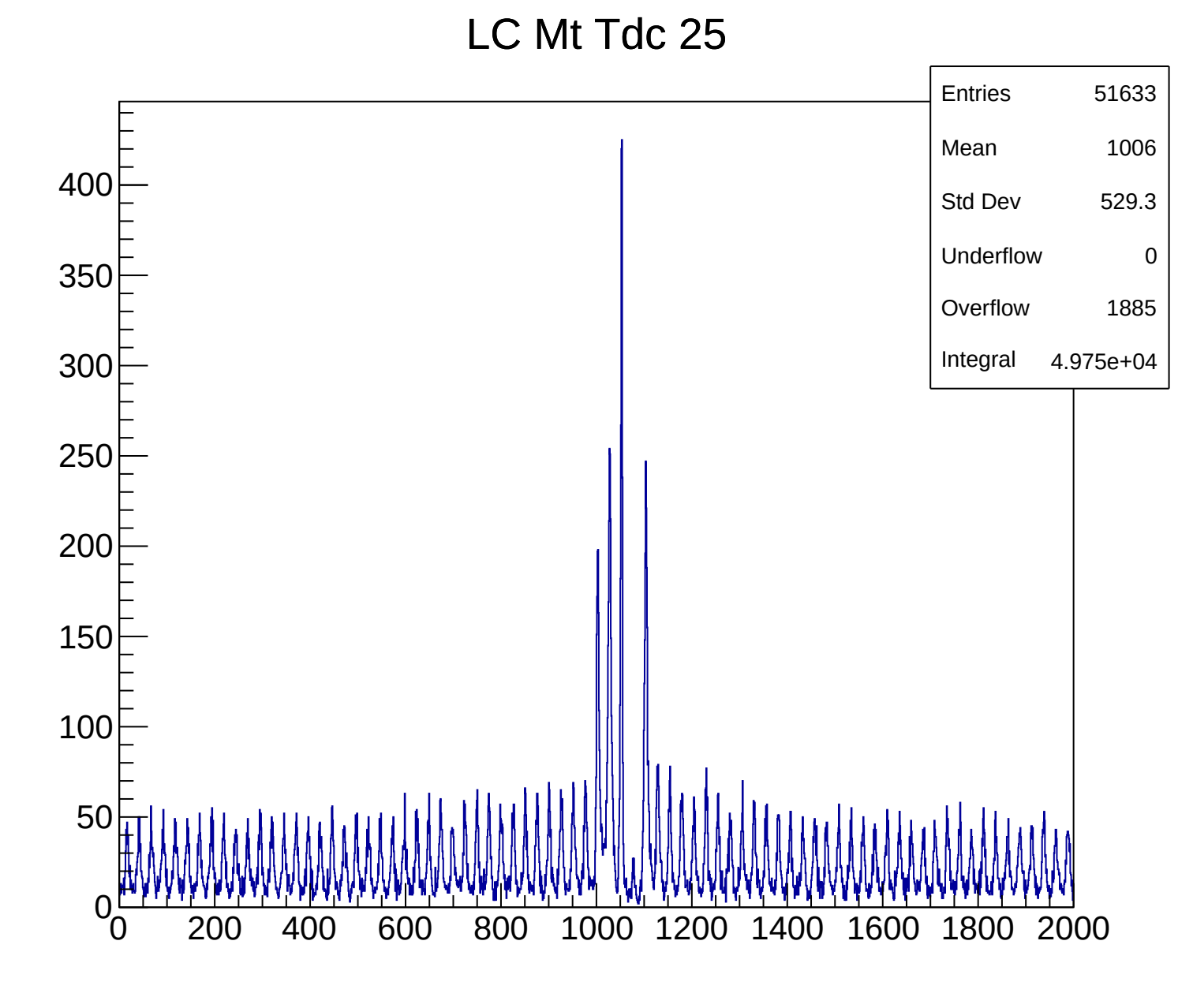
LC Mt Tdc 25
Entries 51633
Mean 1006
Std Dev 529.3
Underflow 0
Overflow 1885
Integral 4.975e+04
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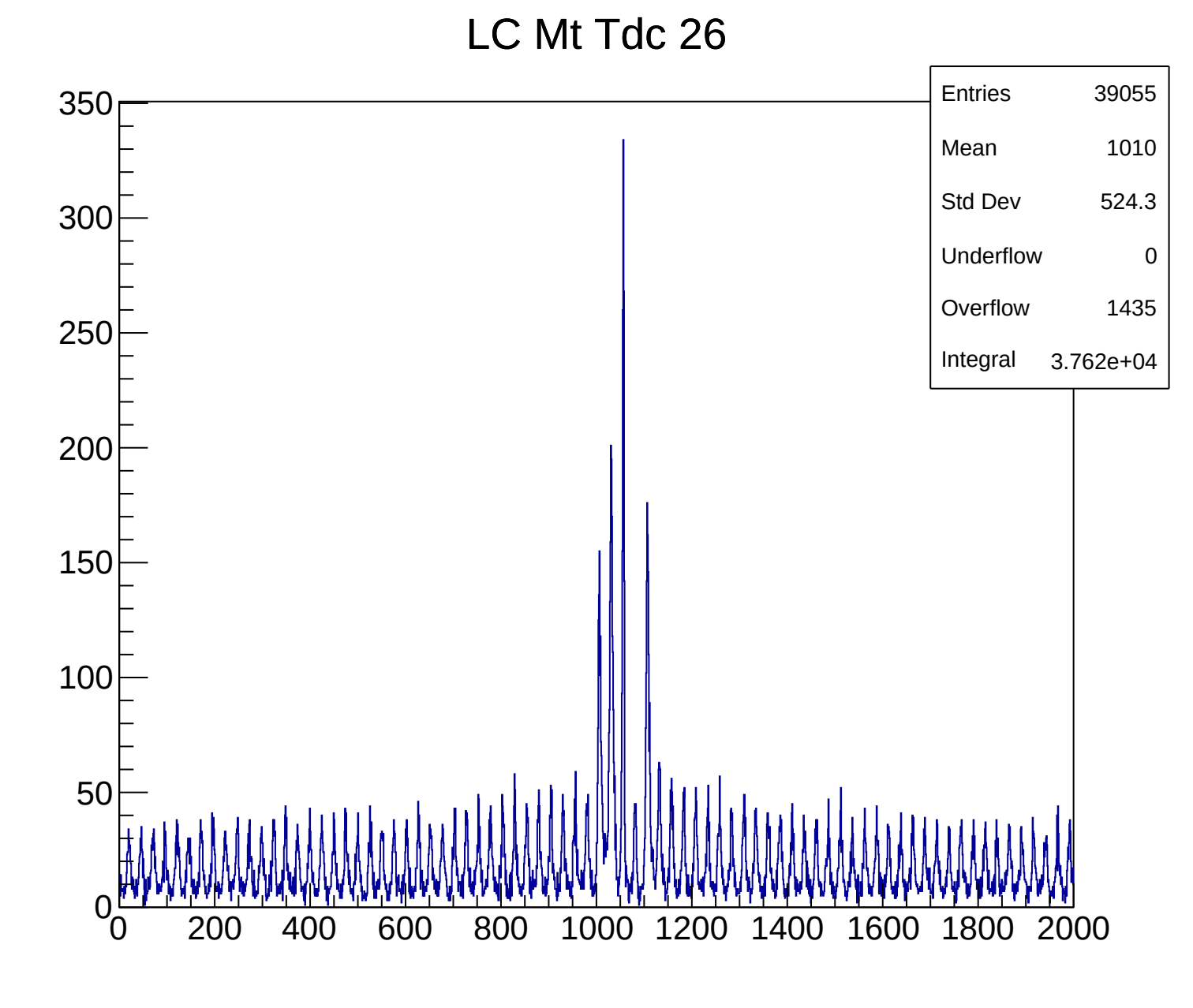
LC Mt Tdc 26
Entries 39055
Mean 1010
Std Dev 524.3
Underflow 0
Overflow 1435
Integral 3.762e+04
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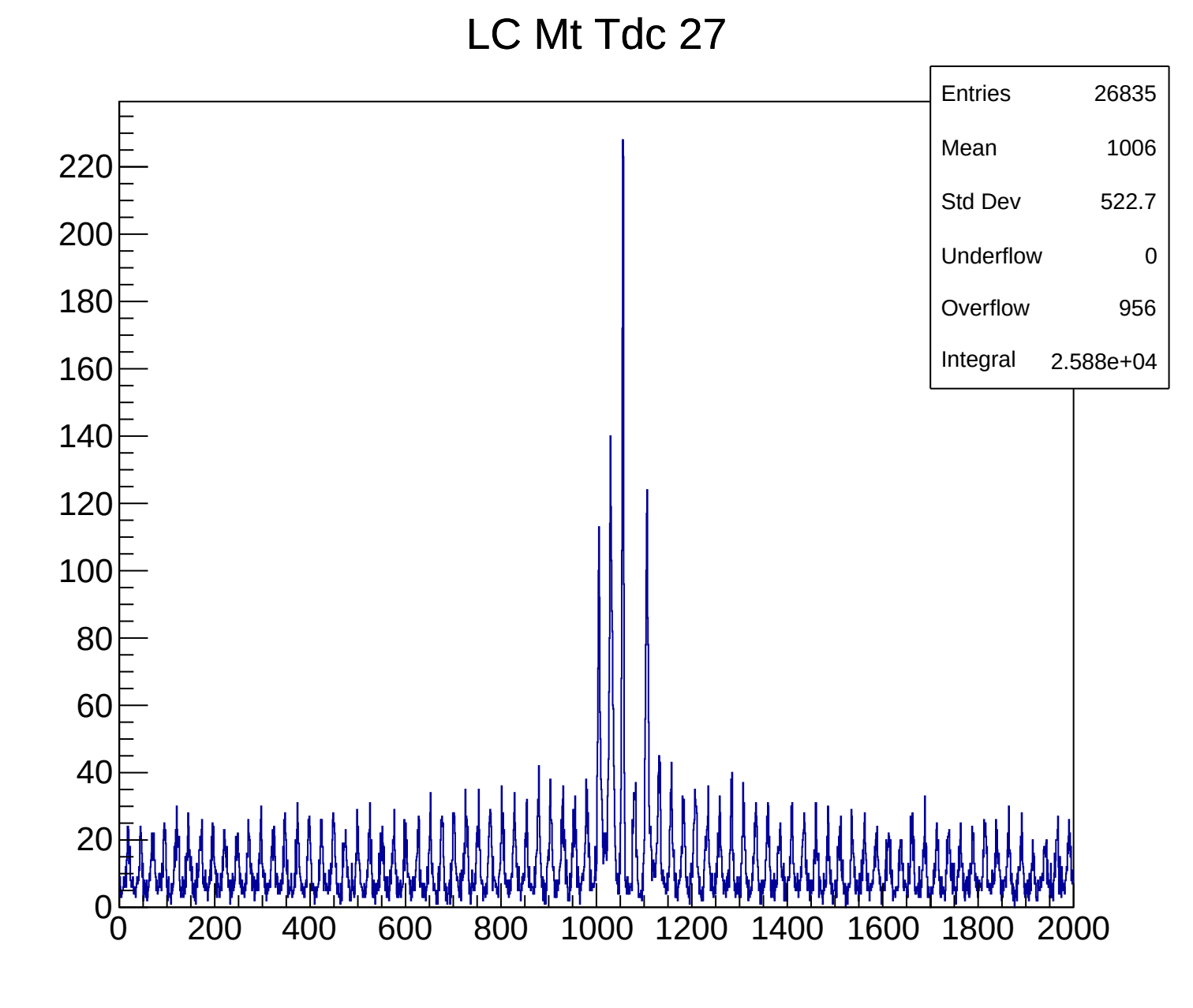
LC Mt Tdc 27
Entries 26835
Mean 1006
Std Dev 522.7
Underflow 0
Overflow 956
Integral 2.588e+04
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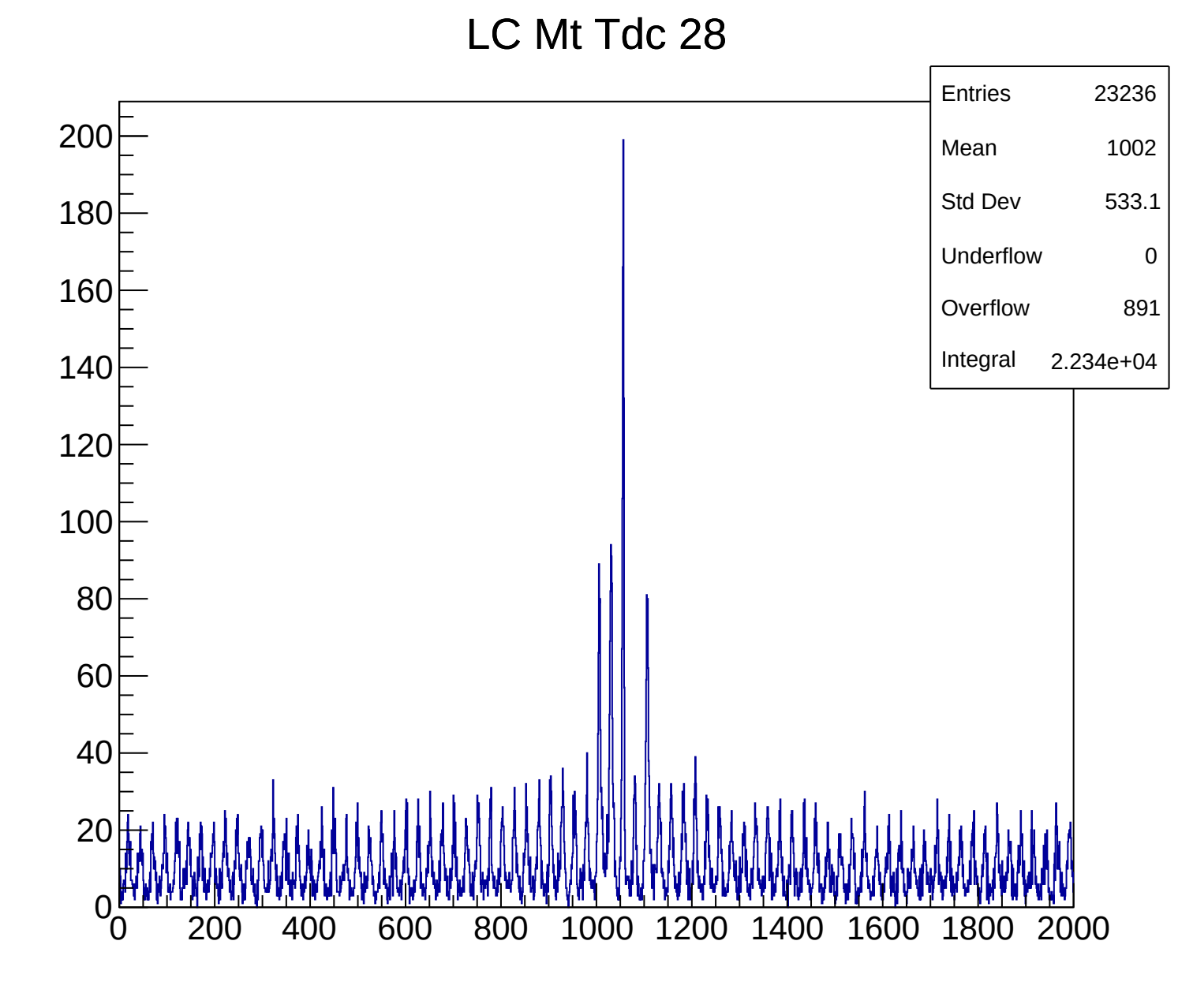
LC Mt Tdc 28
Entries 23236
Mean 1002
Std Dev 533.1
Underflow 0
Overflow 891
Integral 2.234e+04
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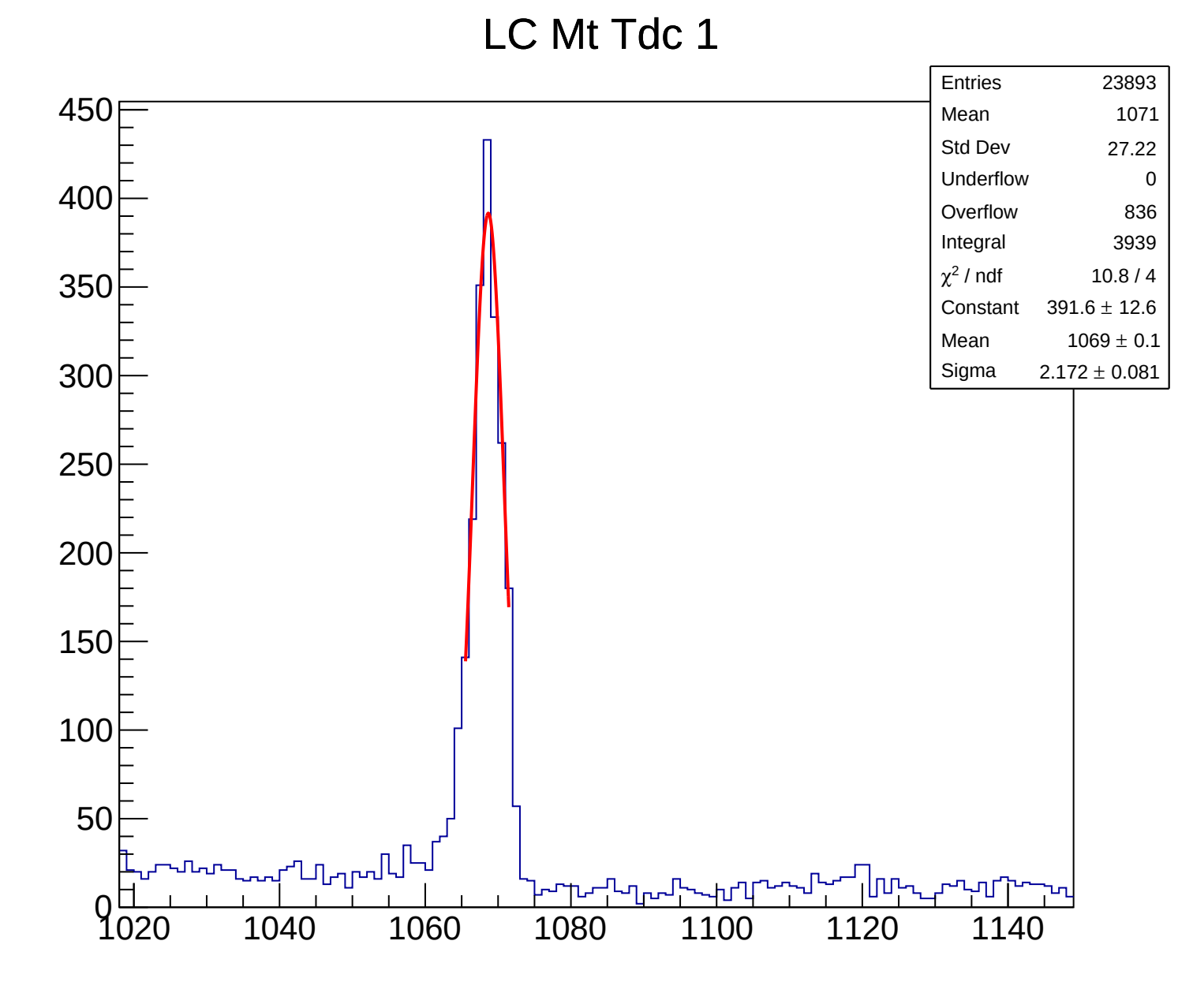
LC Mt Tdc 1
Entries 23893
Mean 1071
Std Dev 27.22
Underflow 0
Overflow 836
Integral 3939
χ² / ndf 10.8 / 4
Constant 391.6 ± 12.6
Mean 1069 ± 0.1
Sigma 2.172 ± 0.081
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300
250
200
150
100
50
0
1020
1040
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1100
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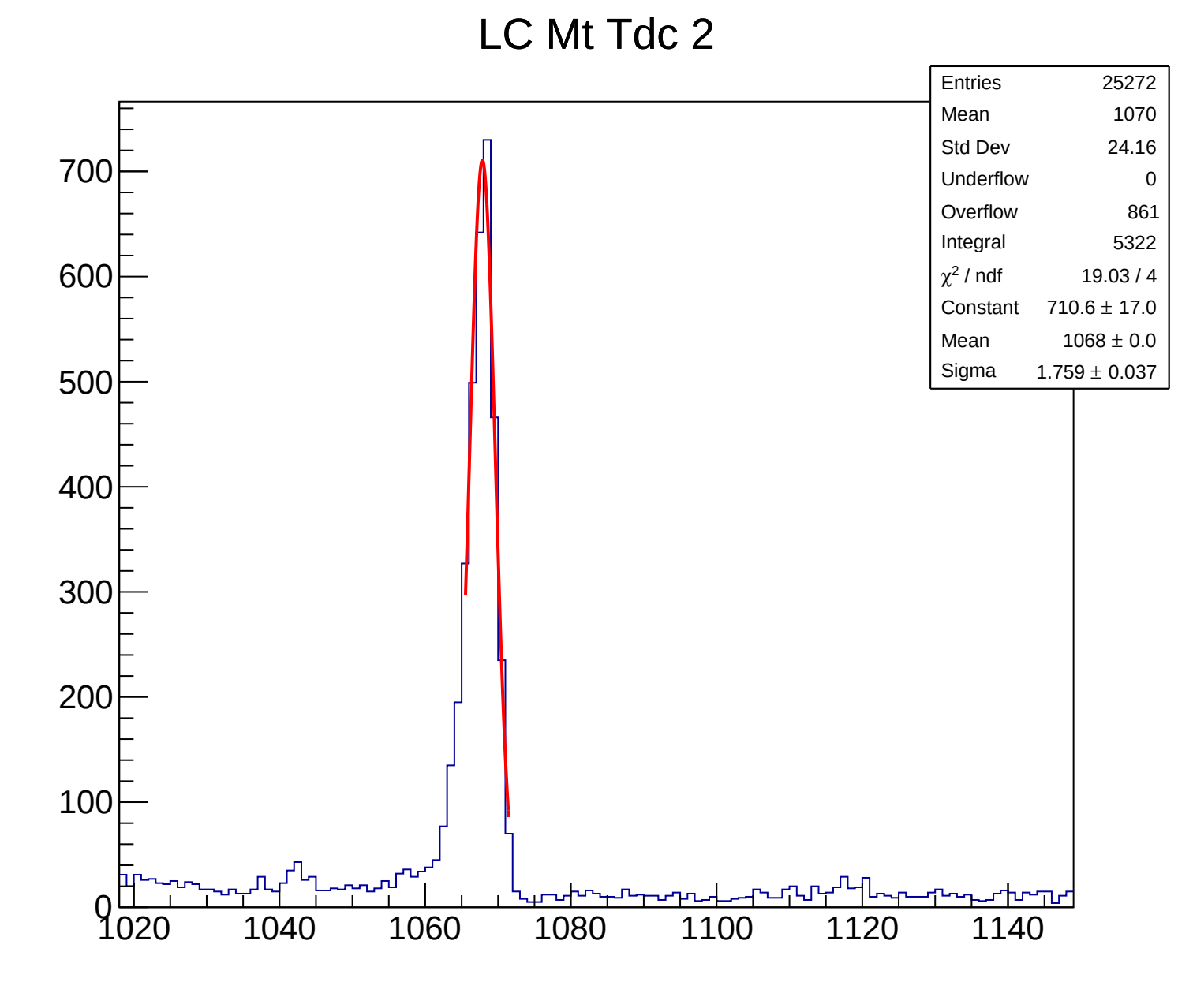
LC Mt Tdc 2
Entries 25272
Mean 1070
Std Dev 24.16
Underflow 0
Overflow 861
Integral 5322
χ² / ndf 19.03 / 4
Constant 710.6 ± 17.0
Mean 1068 ± 0.0
Sigma 1.759 ± 0.037
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600
500
400
300
200
100
0
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1040
1060
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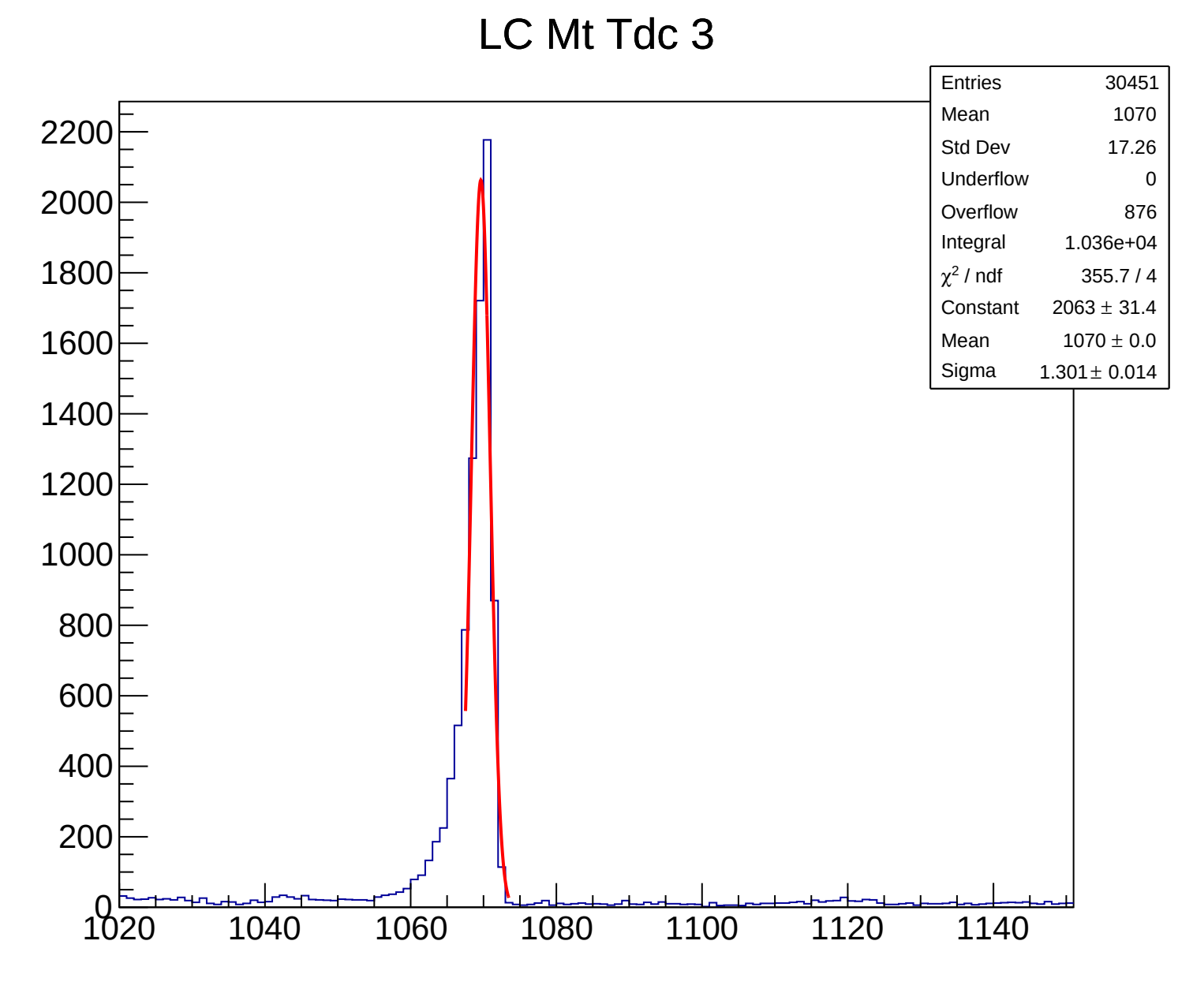
LC Mt Tdc 3
Entries 30451
Mean 1070
Std Dev 17.26
Underflow 0
Overflow 876
Integral 1.036e+04
χ² / ndf 355.7 / 4
Constant 2063 ± 31.4
Mean 1070 ± 0.0
Sigma 1.301 ± 0.014
2200
2000
1800
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800
600
400
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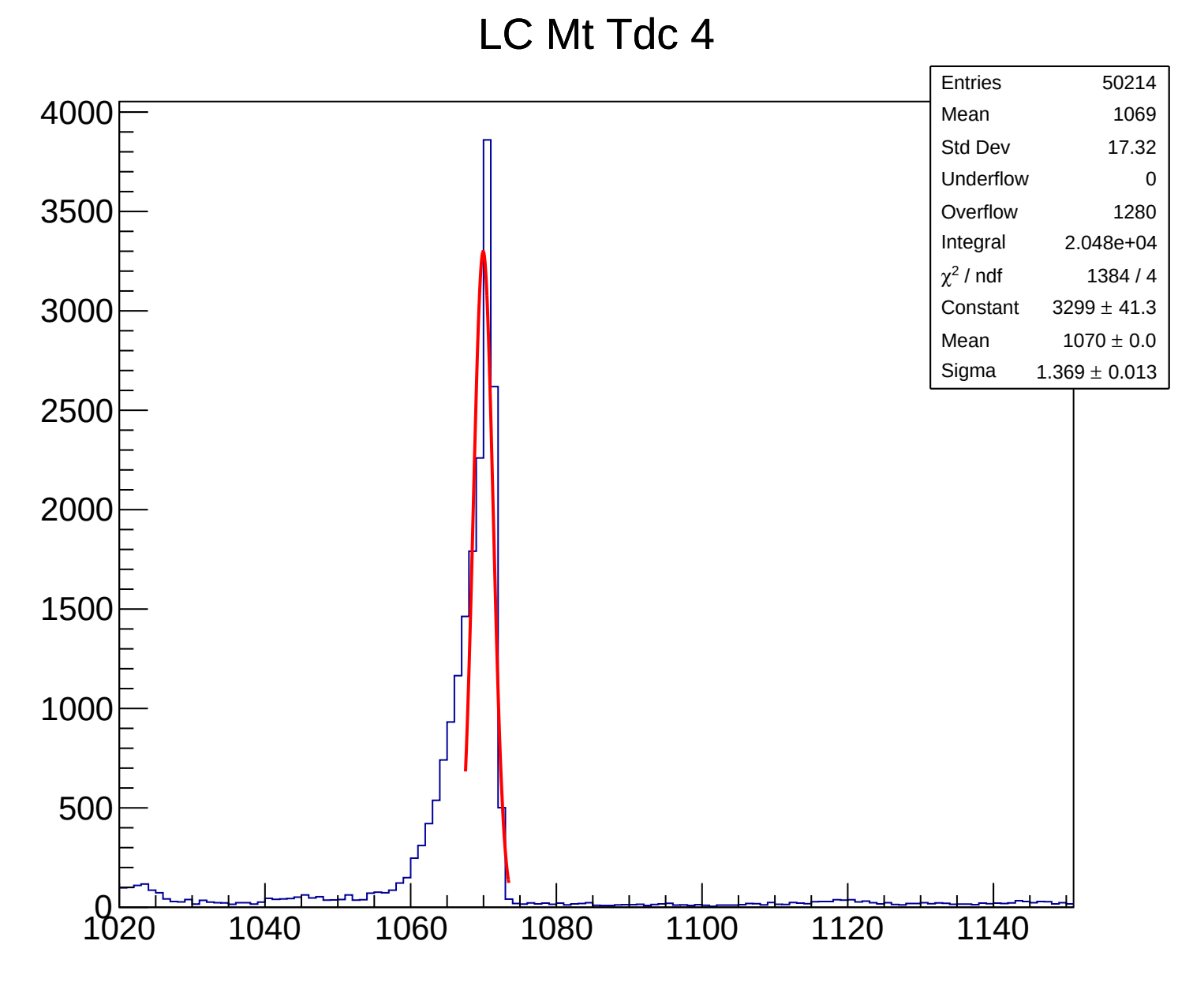
LC Mt Tdc 4
Entries 50214
Mean 1069
Std Dev 17.32
Underflow 0
Overflow 1280
Integral 2.048e+04
χ² / ndf 1384 / 4
Constant 3299 ± 41.3
Mean 1070 ± 0.0
Sigma 1.369 ± 0.013
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3000
2500
2000
1500
1000
500
0
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1040
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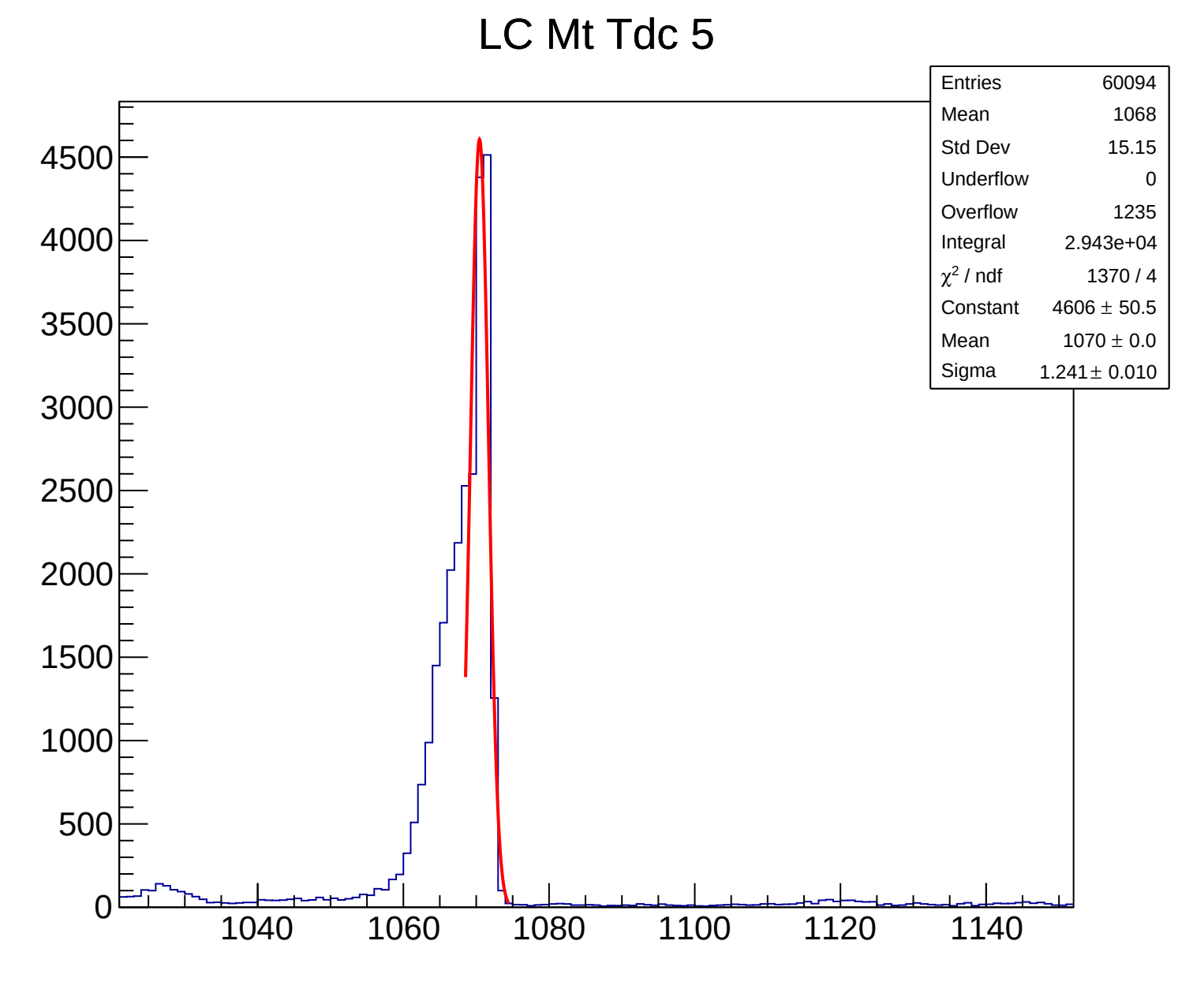
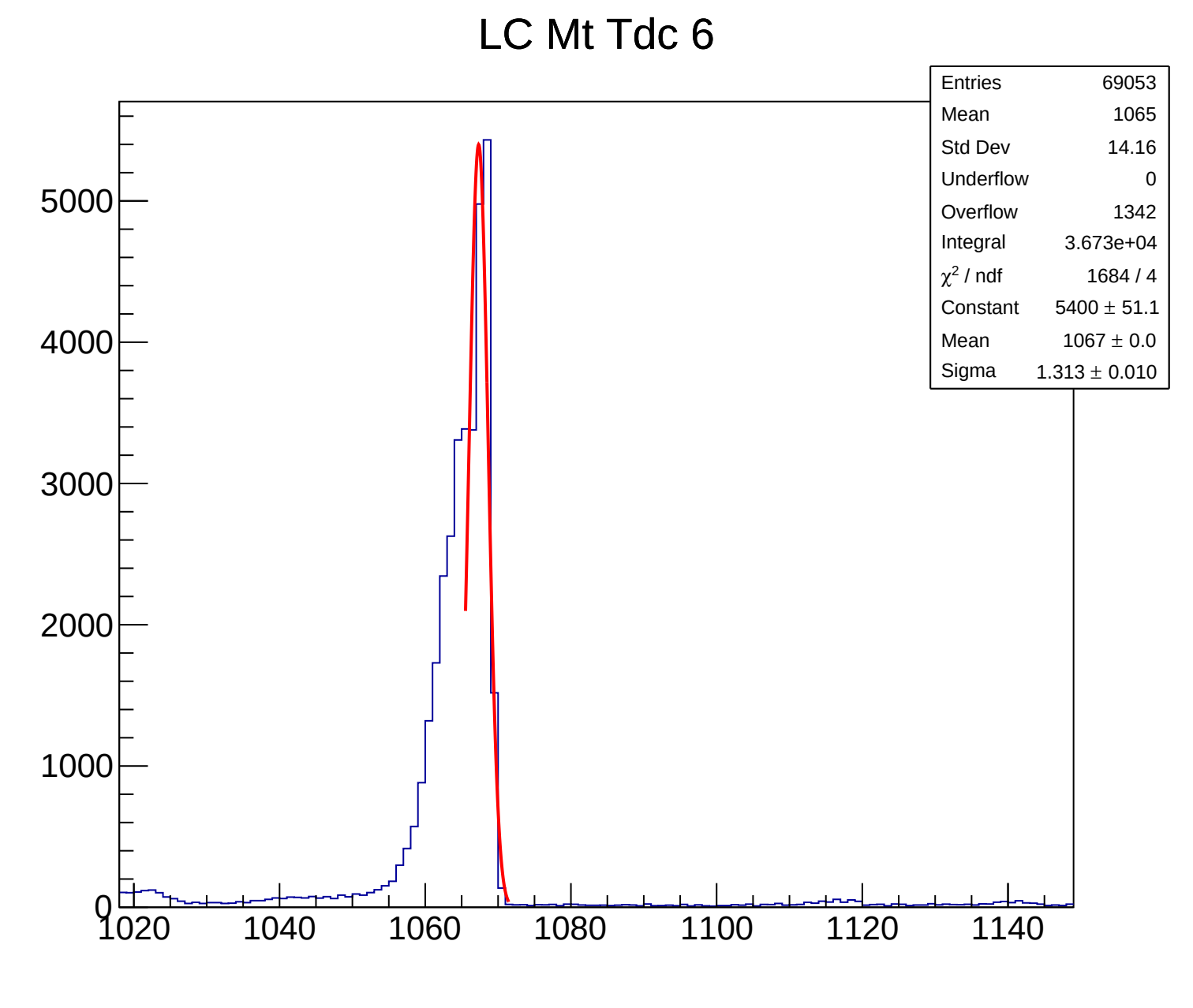
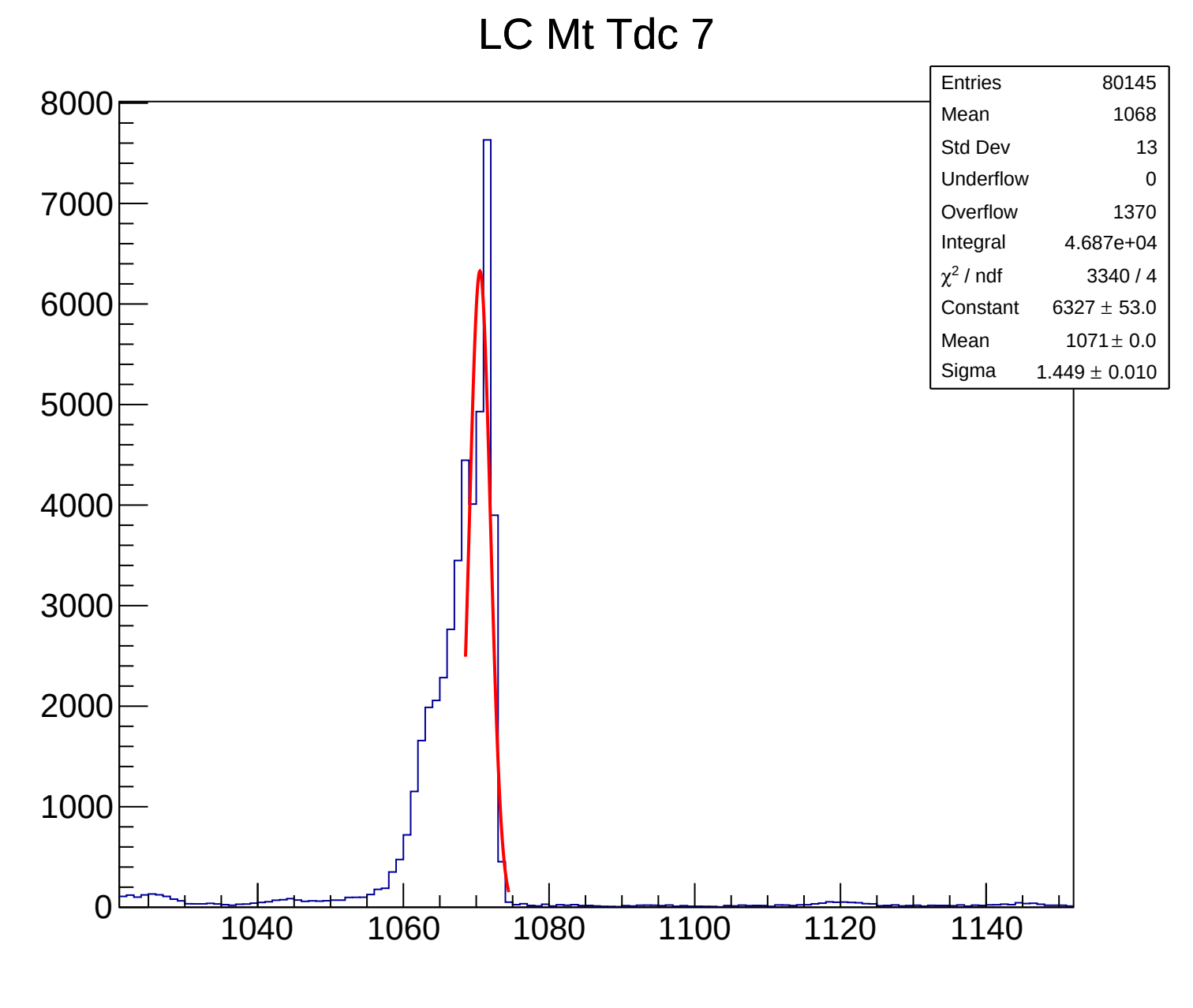
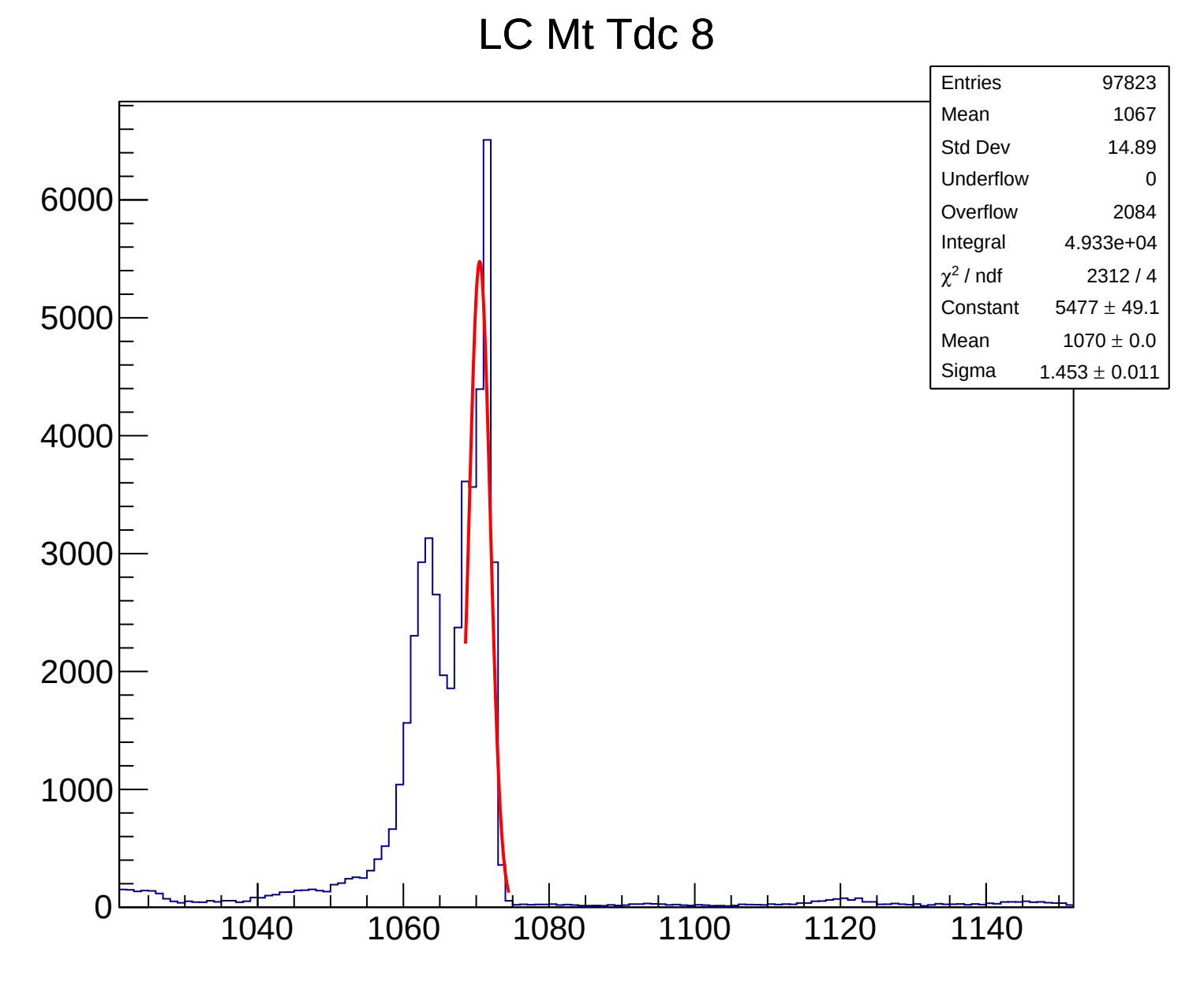
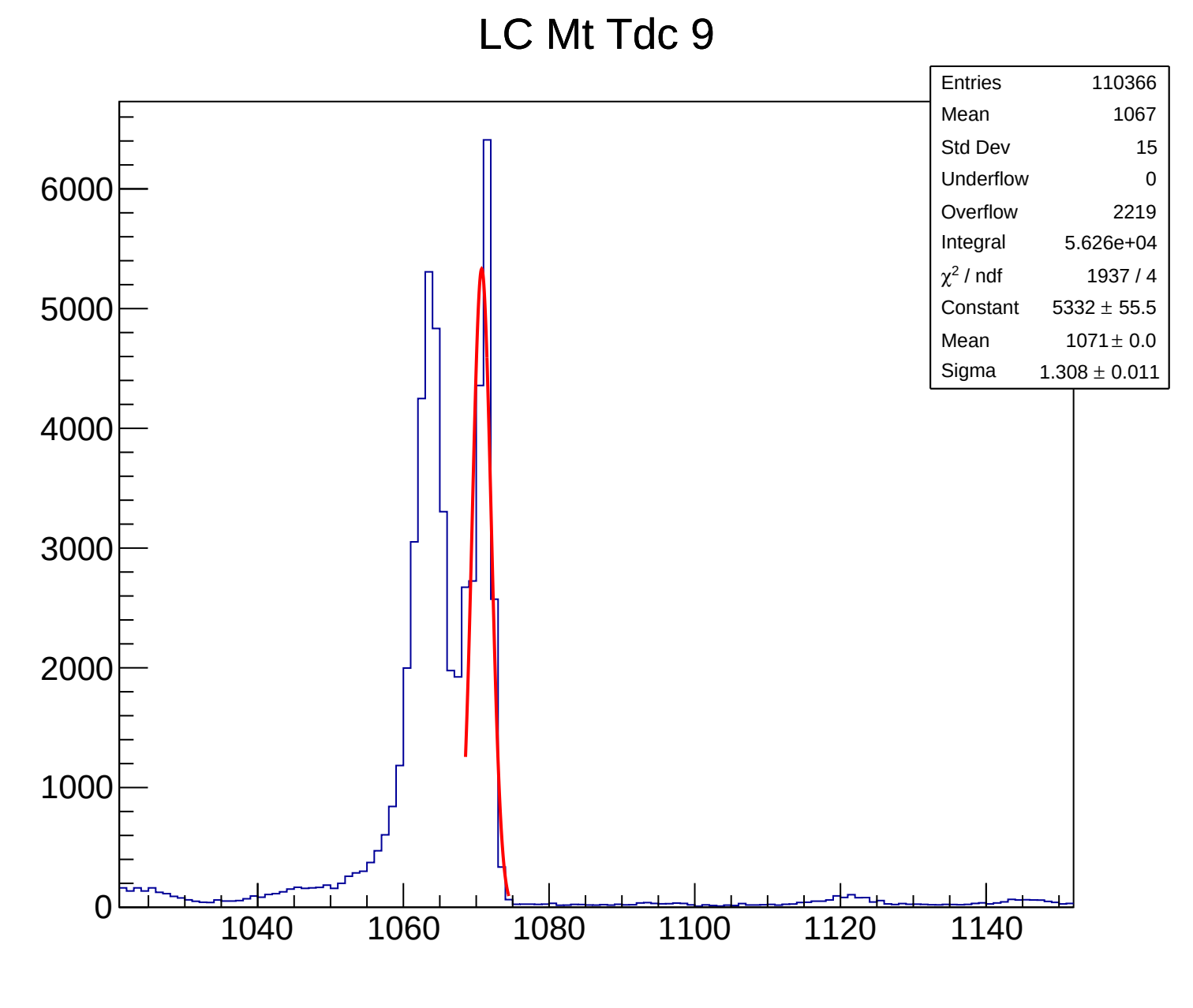
1120
1140

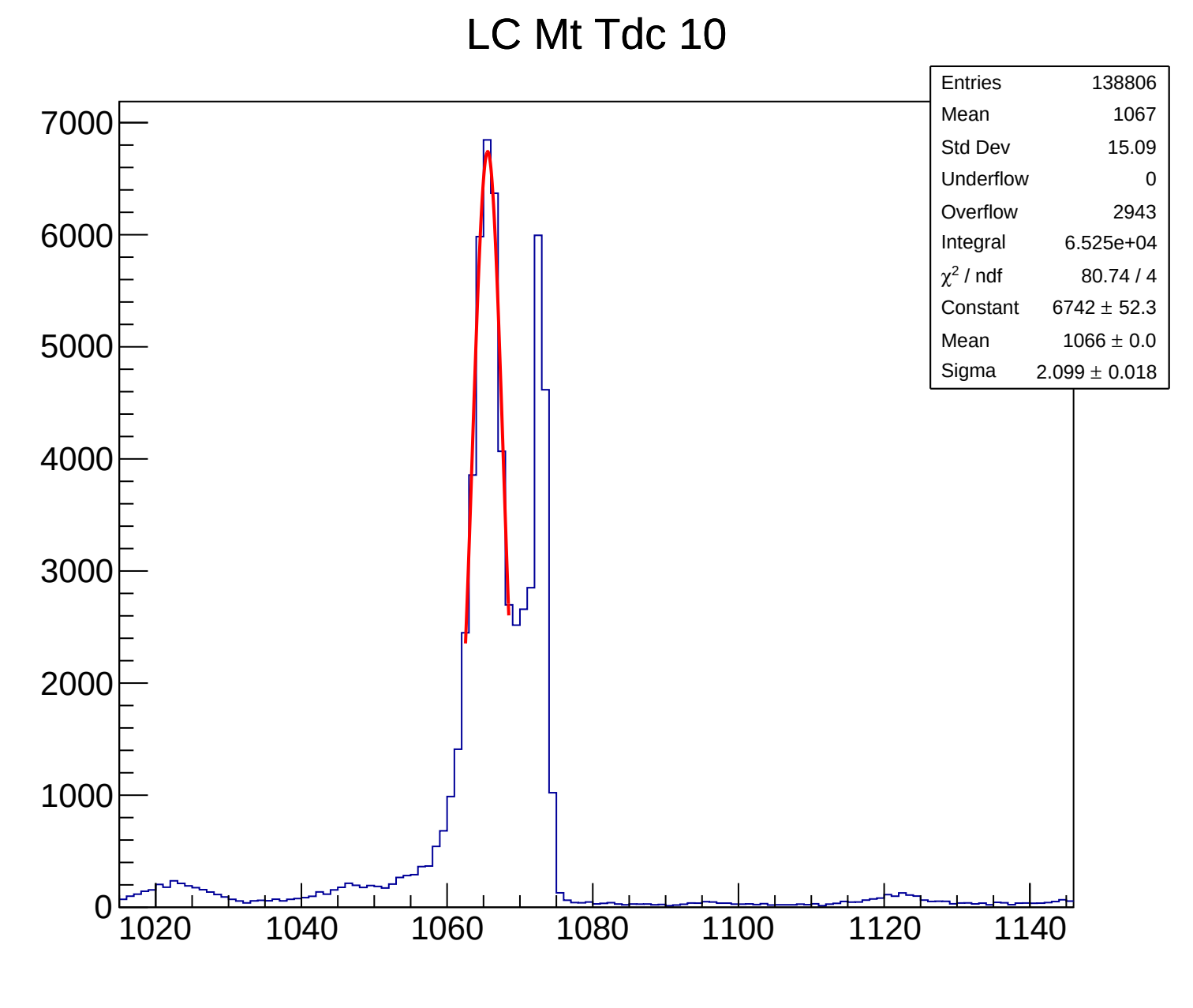

LC Mt Tdc 5
Entries 60094
Mean 1068
Std Dev 15.15
Underflow 0
Overflow 1235
Integral 2.943e+04
χ² / ndf 1370 / 4
Constant 4606 ± 50.5
Mean 1070 ± 0.0
Sigma 1.241 ± 0.010
4500
4000
3500
3000
2500
2000
1500
1000
500
0
1040
1060
1080
1100
1120
1140

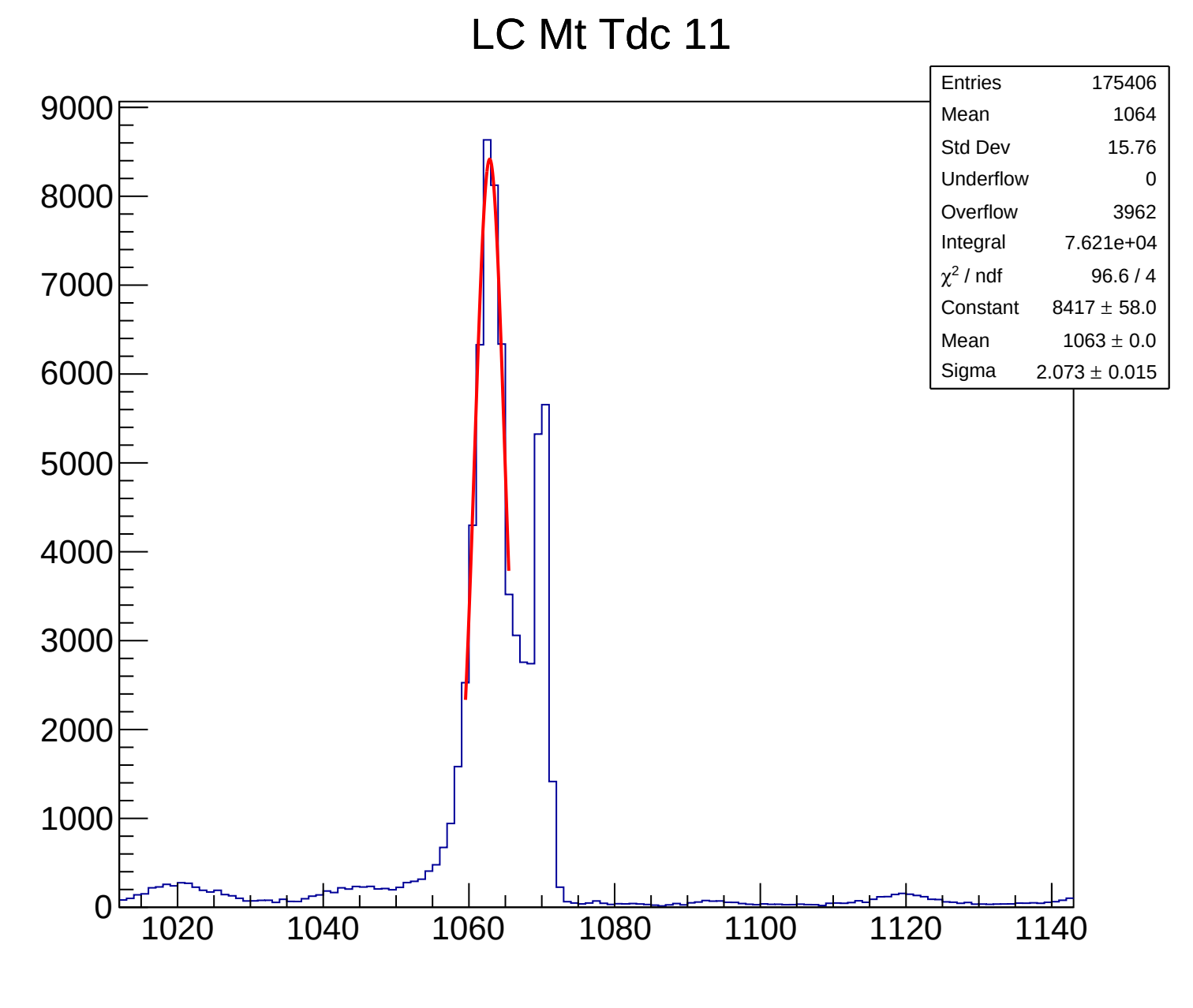

LC Mt Tdc 6
Entries 69053
Mean 1065
Std Dev 14.16
Underflow 0
Overflow 1342
Integral 3.673e+04
χ² / ndf 1684 / 4
Constant 5400 ± 51.1
Mean 1067 ± 0.0
Sigma 1.313 ± 0.010
5000
4000
3000
2000
1000
0
1020
1040
1060
1080
1100
1120
1140

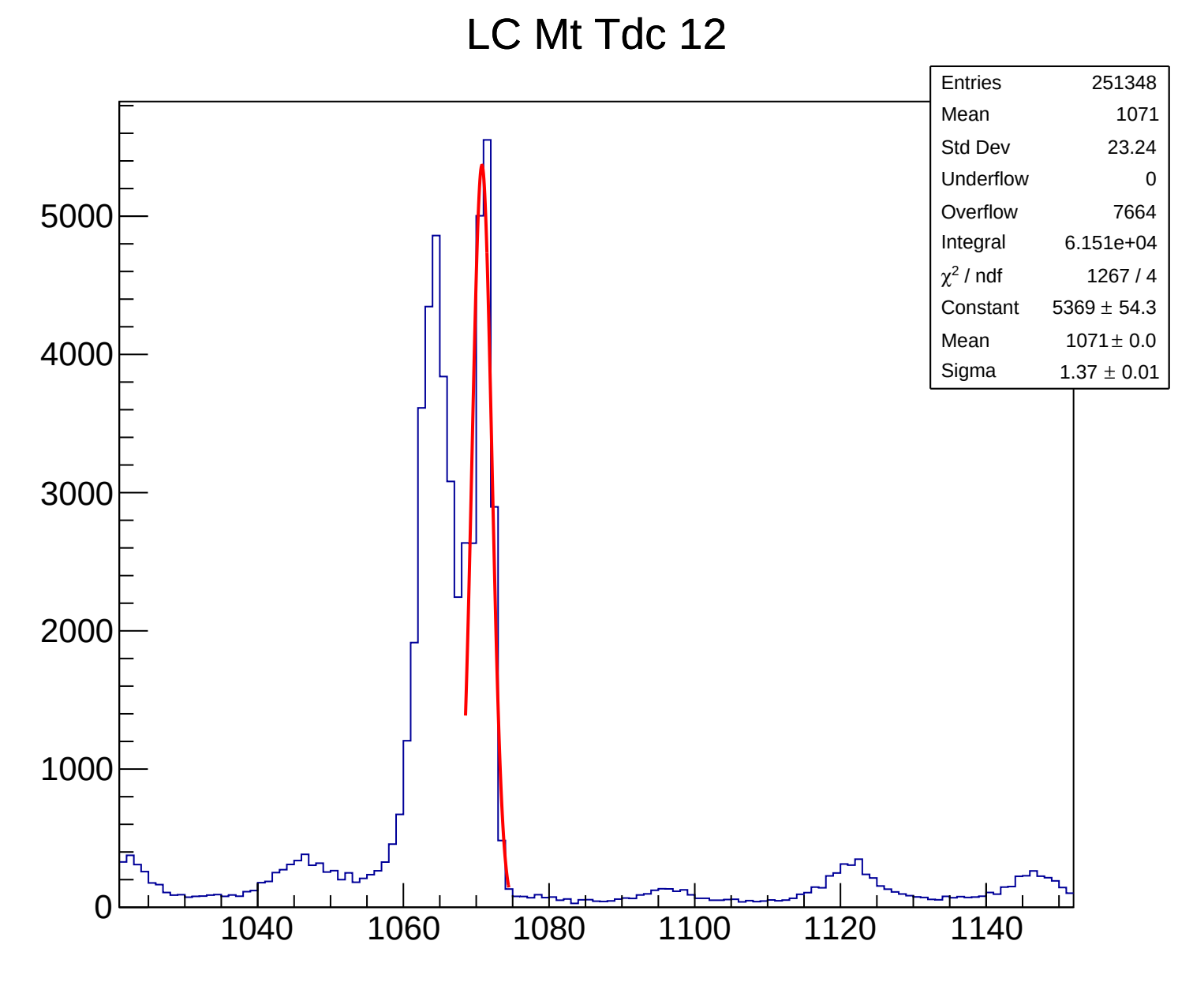

LC Mt Tdc 7
Entries 80145
Mean 1068
Std Dev 13
Underflow 0
Overflow 1370
Integral 4.687e+04
χ² / ndf 3340 / 4
Constant 6327 ± 53.0
Mean 1071 ± 0.0
Sigma 1.449 ± 0.010
8000
7000
6000
5000
4000
3000
2000
1000
0
1040
1060
1080
1100
1120
1140

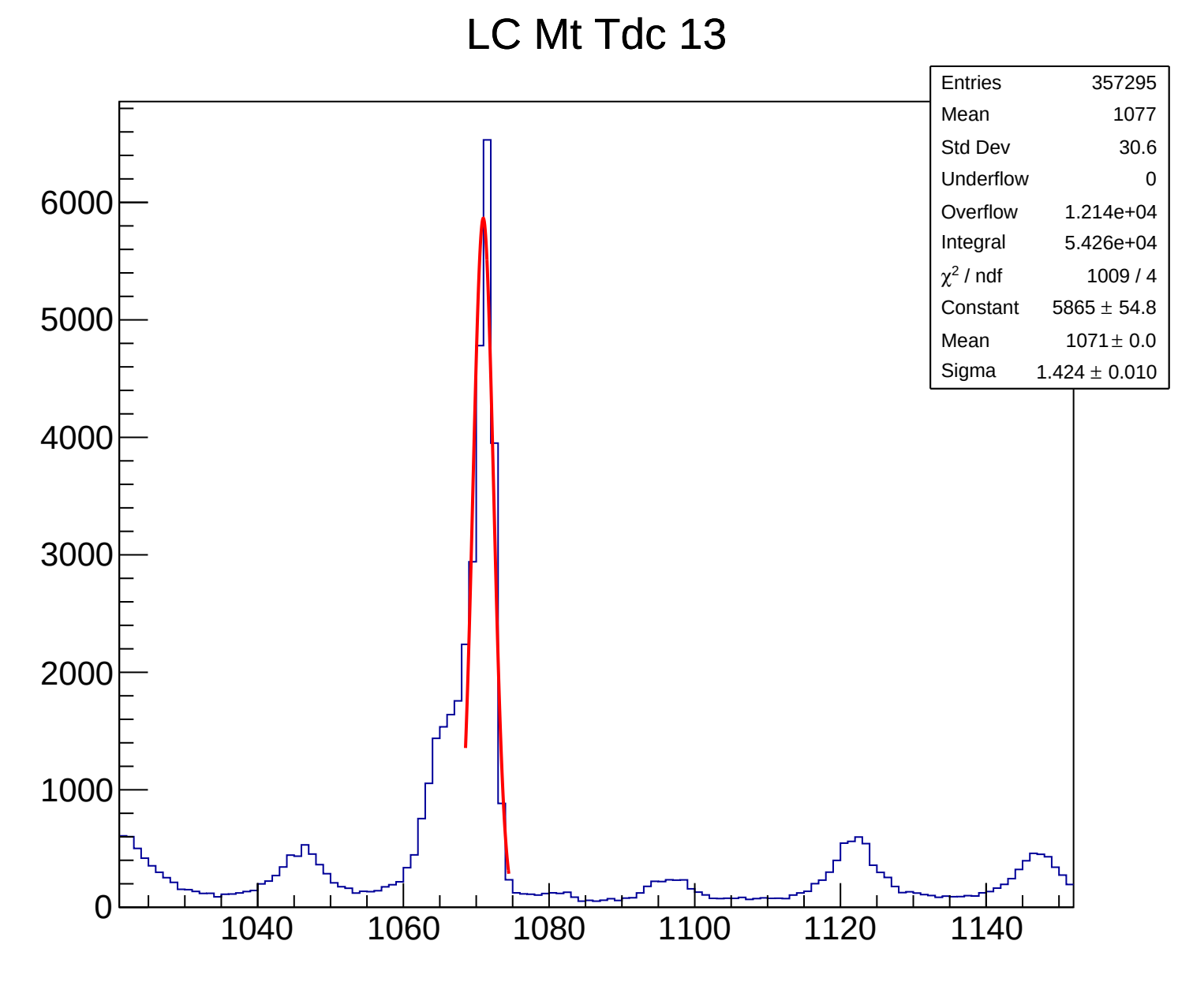

LC Mt Tdc 8
Entries 97823
Mean 1067
Std Dev 14.89
Underflow 0
Overflow 2084
Integral 4.933e+04
χ² / ndf 2312 / 4
Constant 5477 ± 49.1
Mean 1070 ± 0.0
Sigma 1.453 ± 0.011
6000
5000
4000
3000
2000
1000
0
1040
1060
1080
1100
1120
1140

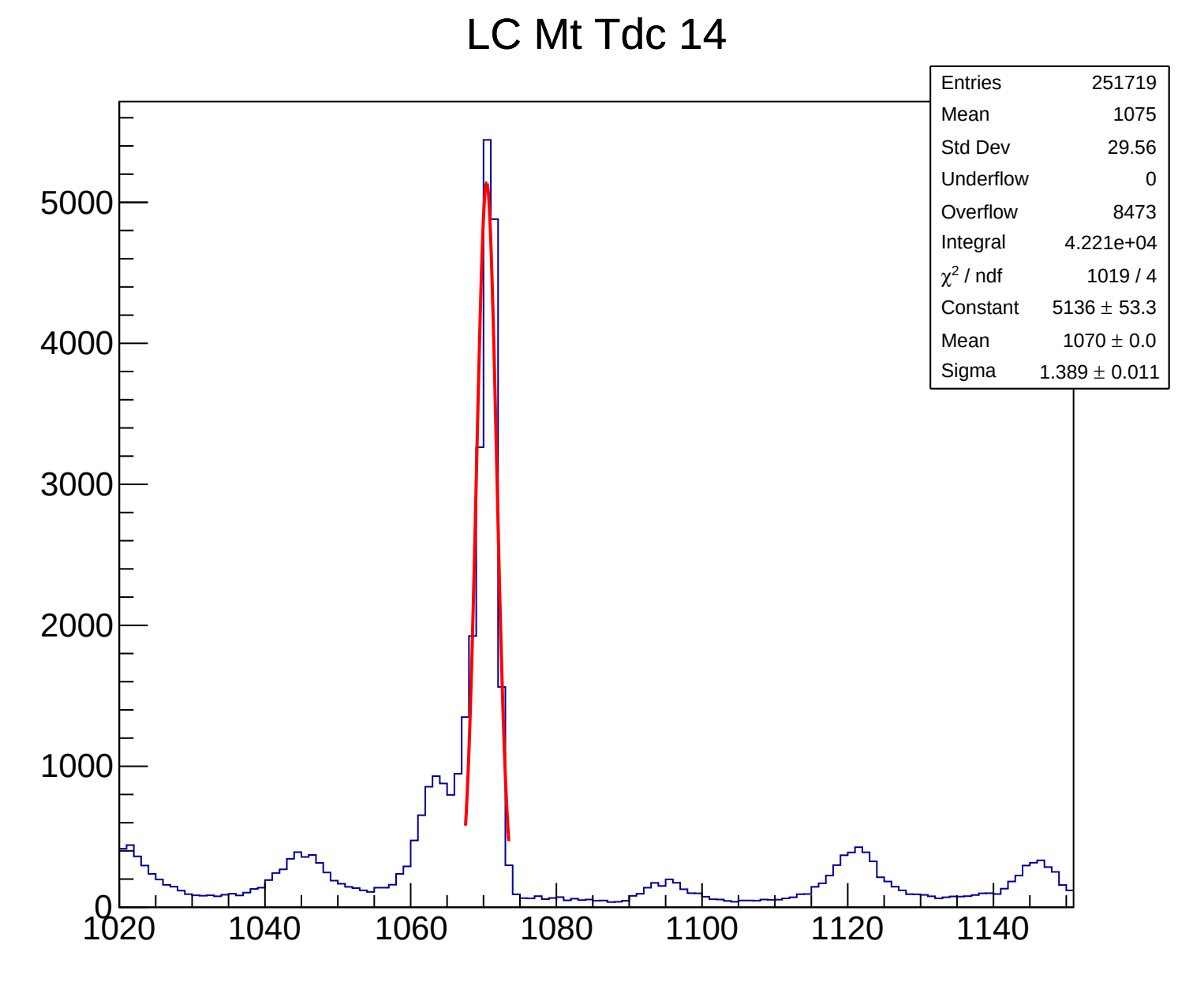

LC Mt Tdc 9
Entries 110366
Mean 1067
Std Dev 15
Underflow 0
Overflow 2219
Integral 5.626e+04
χ² / ndf 1937 / 4
Constant 5332 ± 55.5
Mean 1071 ± 0.0
Sigma 1.308 ± 0.011
6000
5000
4000
3000
2000
1000
0
1040
1060
1080
1100
1120
1140

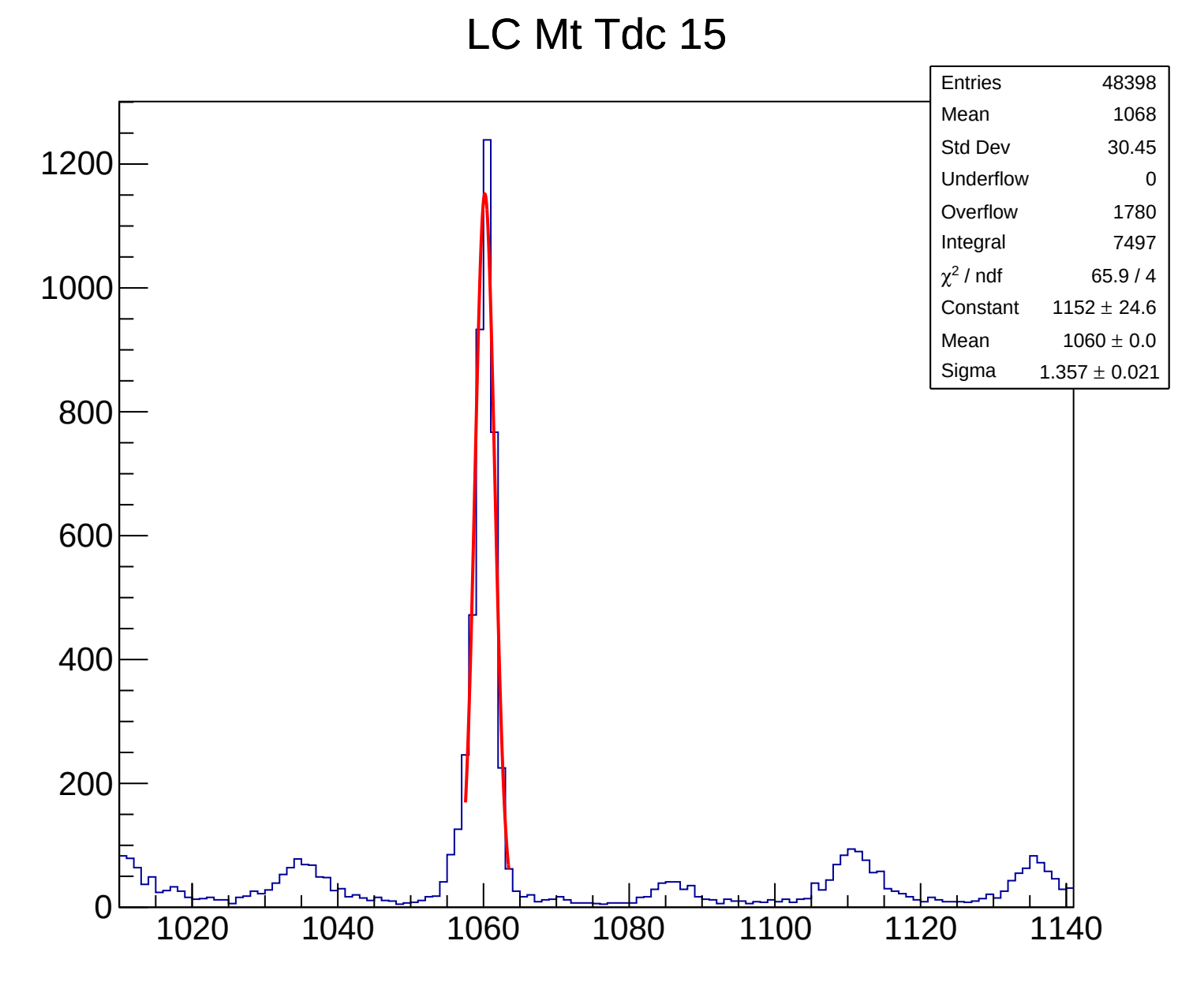

LC Mt Tdc 10
Entries 138806
Mean 1067
Std Dev 15.09
Underflow 0
Overflow 2943
Integral 6.525e+04
χ² / ndf 80.74 / 4
Constant 6742 ± 52.3
Mean 1066 ± 0.0
Sigma 2.099 ± 0.018
7000
6000
5000
4000
3000
2000
1000
0
1020
1040
1060
1080
1100
1120
1140

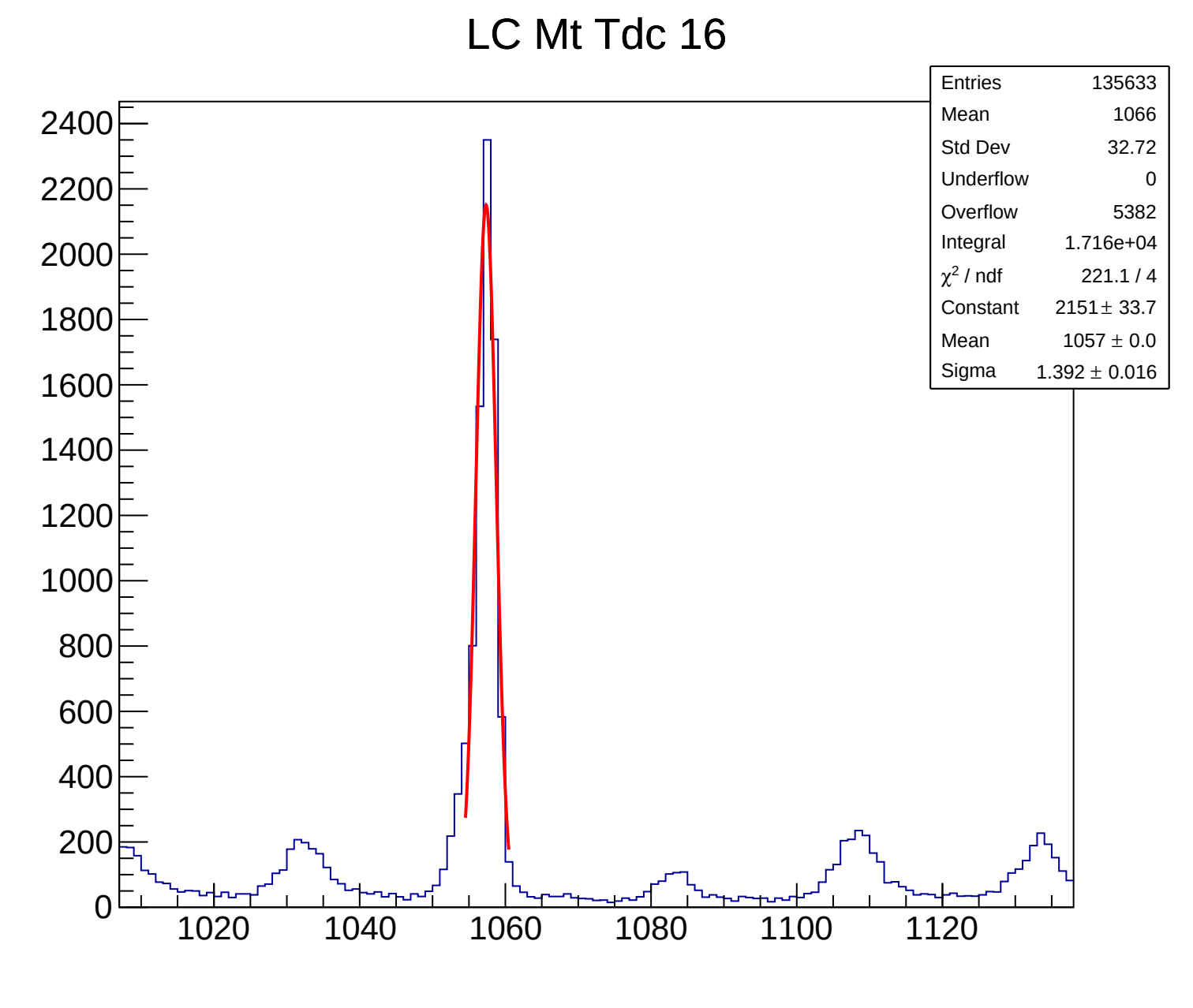

LC Mt Tdc 11
Entries 175406
Mean 1064
Std Dev 15.76
Underflow 0
Overflow 3962
Integral 7.621e+04
χ² / ndf 96.6 / 4
Constant 8417 ± 58.0
Mean 1063 ± 0.0
Sigma 2.073 ± 0.015
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
1020
1040
1060
1080
1100
1120
1140

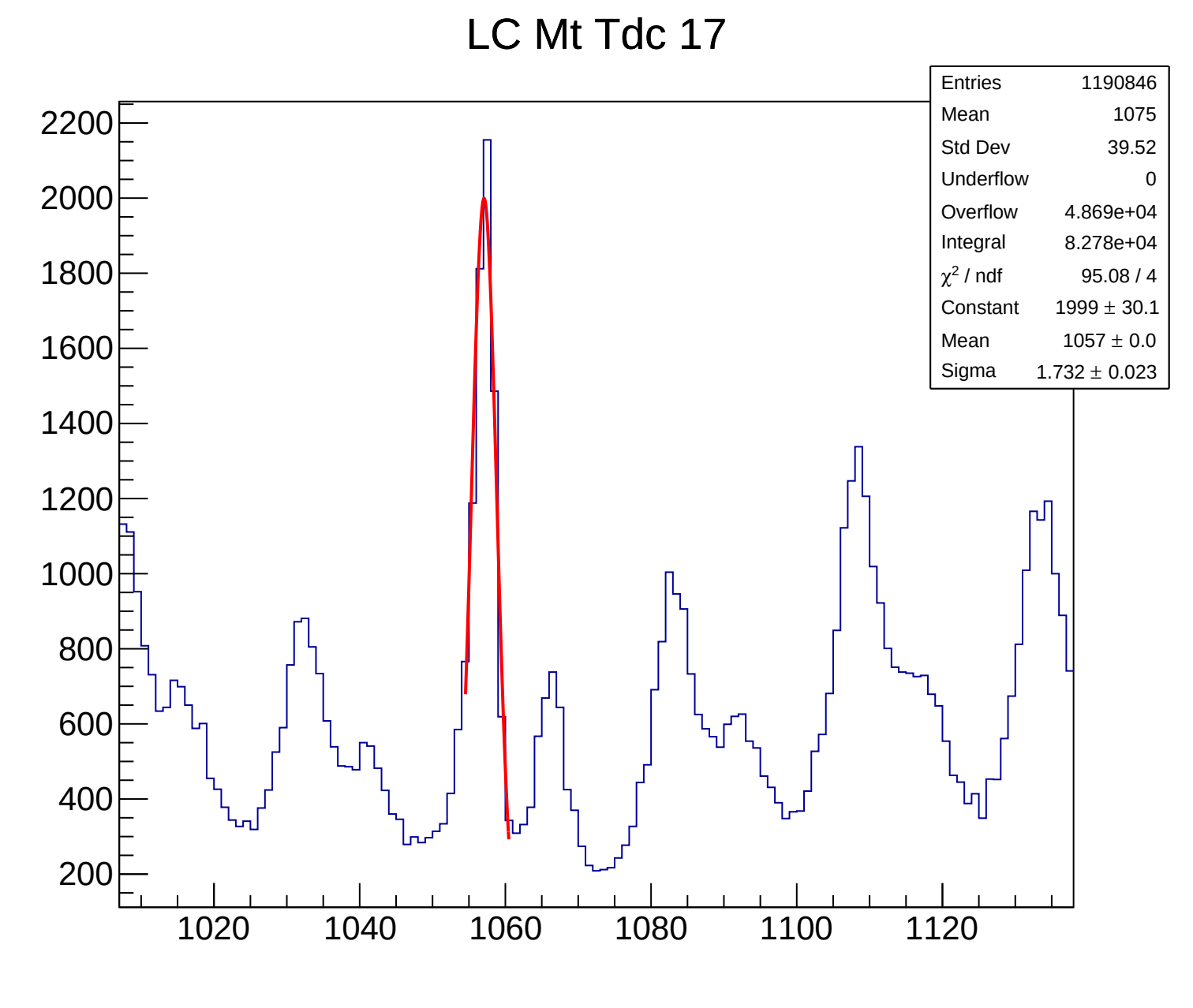

LC Mt Tdc 12
Entries 251348
Mean 1071
Std Dev 23.24
Underflow 0
Overflow 7664
Integral 6.151e+04
χ² / ndf 1267 / 4
Constant 5369 ± 54.3
Mean 1071 ± 0.0
Sigma 1.37 ± 0.01
5000
4000
3000
2000
1000
0
1040
1060
1080
1100
1120
1140

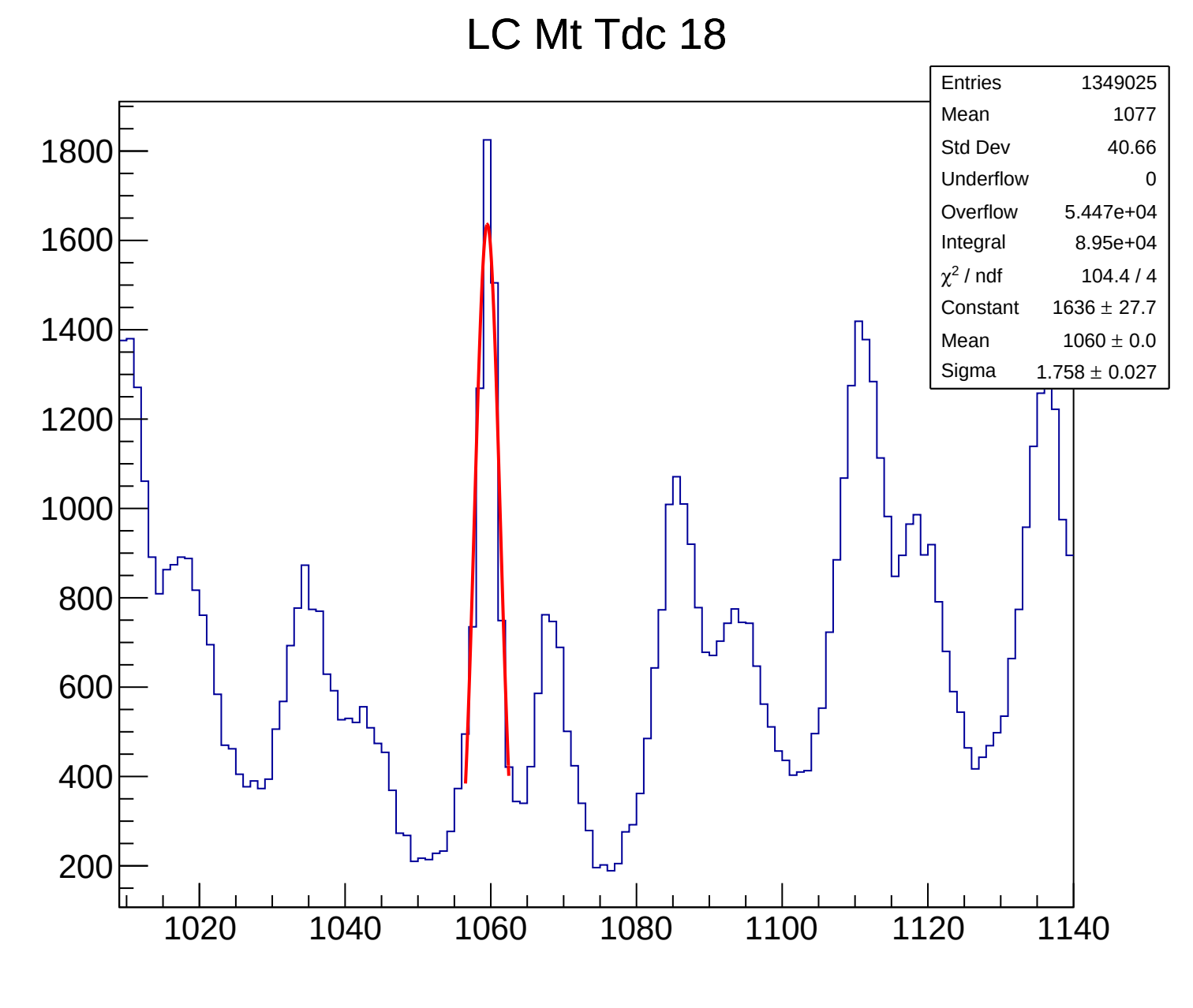

LC Mt Tdc 13
Entries 357295
Mean 1077
Std Dev 30.6
Underflow 0
Overflow 1.214e+04
Integral 5.426e+04
χ² / ndf 1009 / 4
Constant 5865 ± 54.8
Mean 1071 ± 0.0
Sigma 1.424 ± 0.010
6000
5000
4000
3000
2000
1000
0
1040
1060
1080
1100
1120
1140

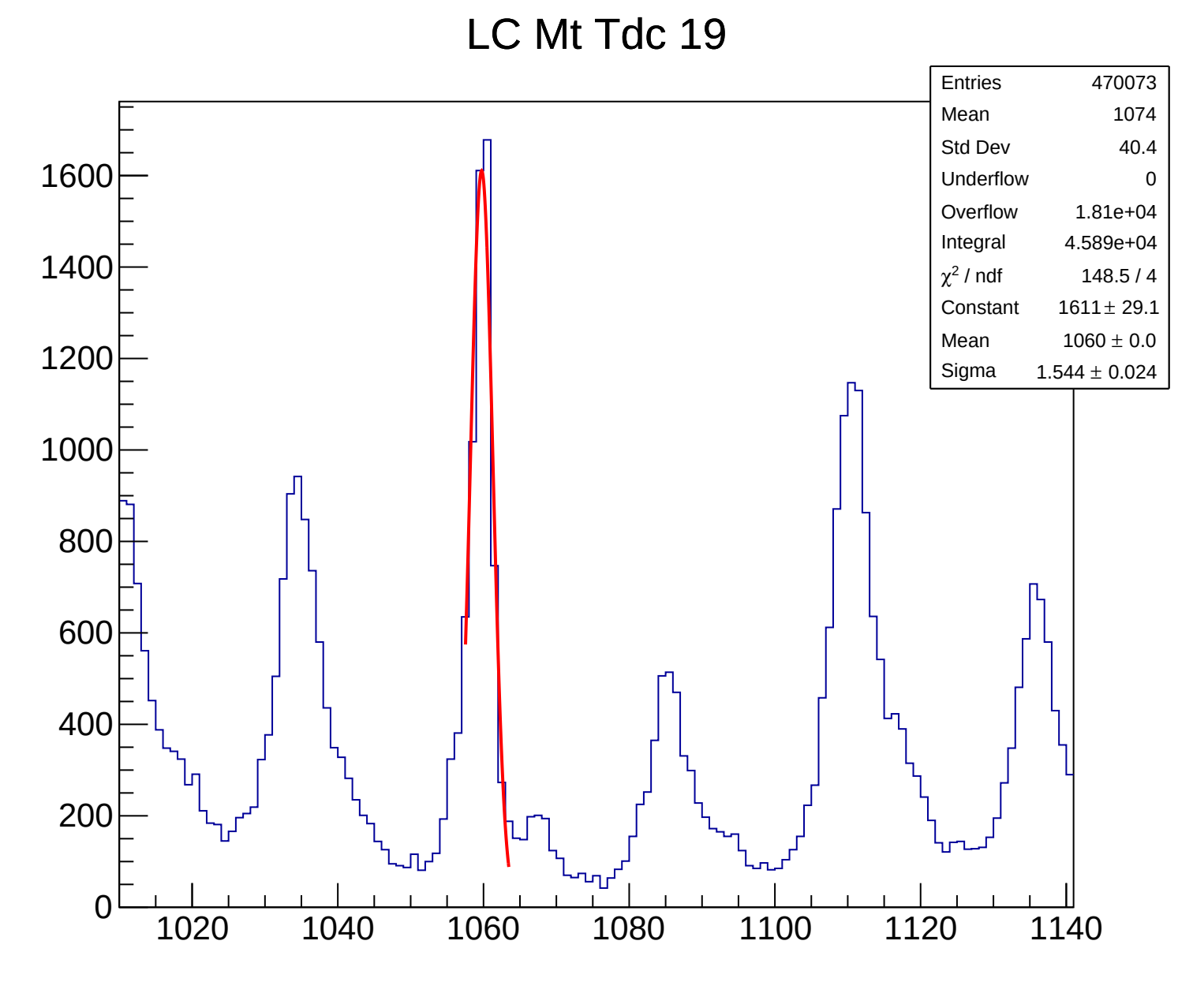

LC Mt Tdc 14
Entries 251719
Mean 1075
Std Dev 29.56
Underflow 0
Overflow 8473
Integral 4.221e+04
χ² / ndf 1019 / 4
Constant 5136 ± 53.3
Mean 1070 ± 0.0
Sigma 1.389 ± 0.011
5000
4000
3000
2000
1000
0
1020
1040
1060
1080
1100
1120
1140

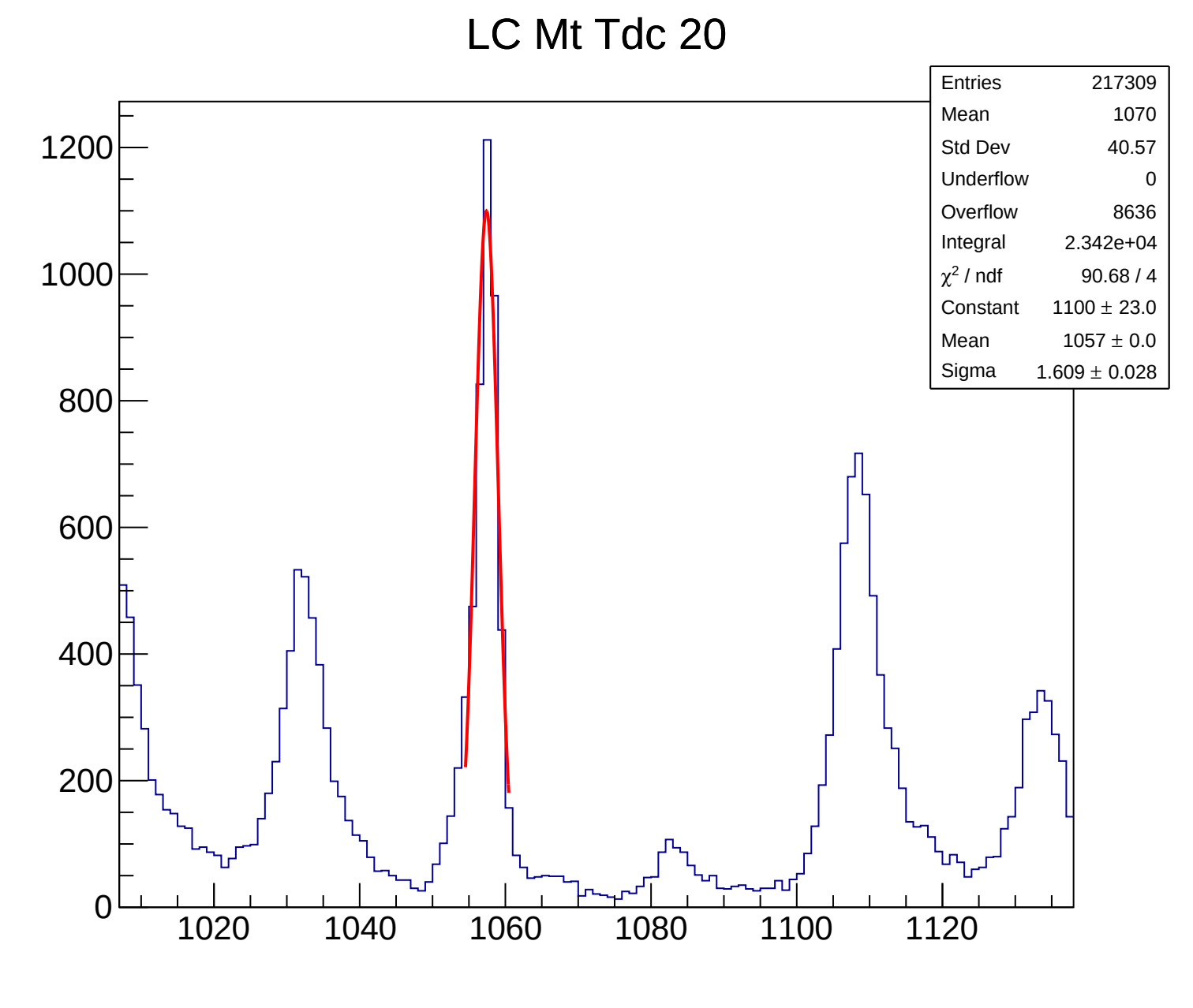

LC Mt Tdc 15
Entries 48398
Mean 1068
Std Dev 30.45
Underflow 0
Overflow 1780
Integral 7497
χ² / ndf 65.9 / 4
Constant 1152 ± 24.6
Mean 1060 ± 0.0
Sigma 1.357 ± 0.021
1200
1000
800
600
400
200
0
1020
1040
1060
1080
1100
1120
1140

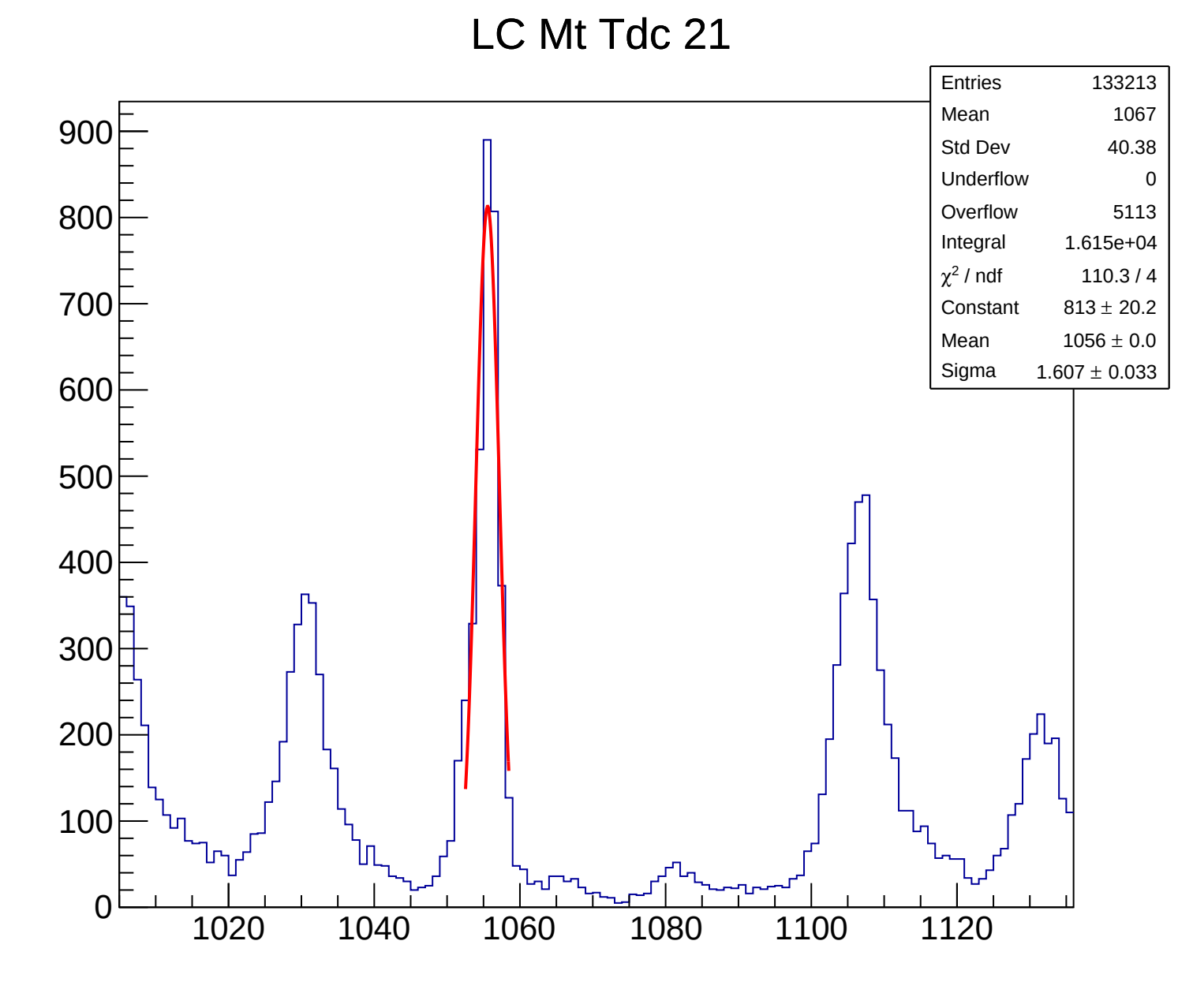

LC Mt Tdc 16
Entries 135633
Mean 1066
Std Dev 32.72
Underflow 0
Overflow 5382
Integral 1.716e+04
χ² / ndf 221.1 / 4
Constant 2151 ± 33.7
Mean 1057 ± 0.0
Sigma 1.392 ± 0.016
2400
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
1020
1040
1060
1080
1100
1120

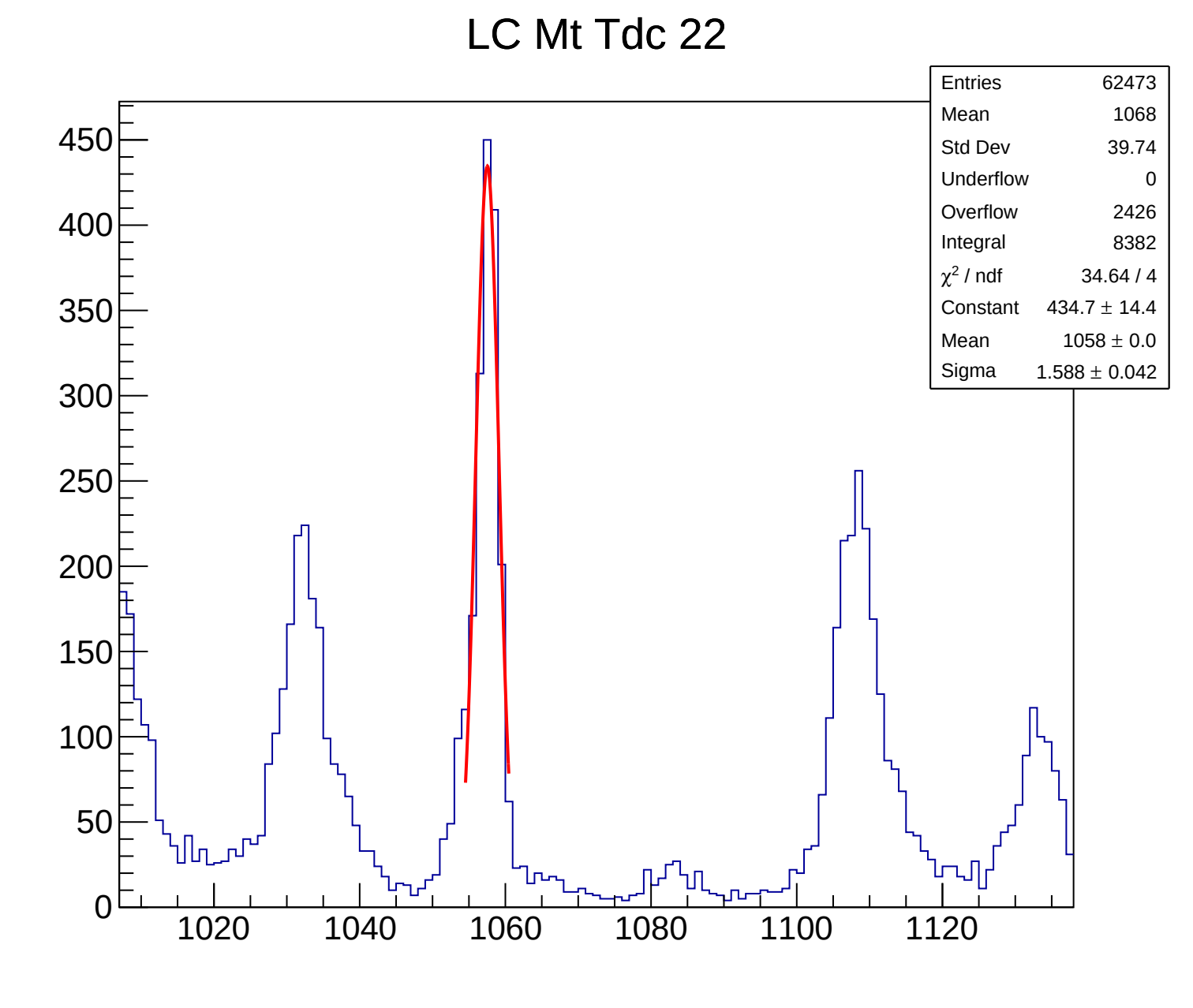

LC Mt Tdc 17
Entries 1190846
Mean 1075
Std Dev 39.52
Underflow 0
Overflow 4.869e+04
Integral 8.278e+04
χ² / ndf 95.08 / 4
Constant 1999 ± 30.1
Mean 1057 ± 0.0
Sigma 1.732 ± 0.023
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
1020
1040
1060
1080
1100
1120

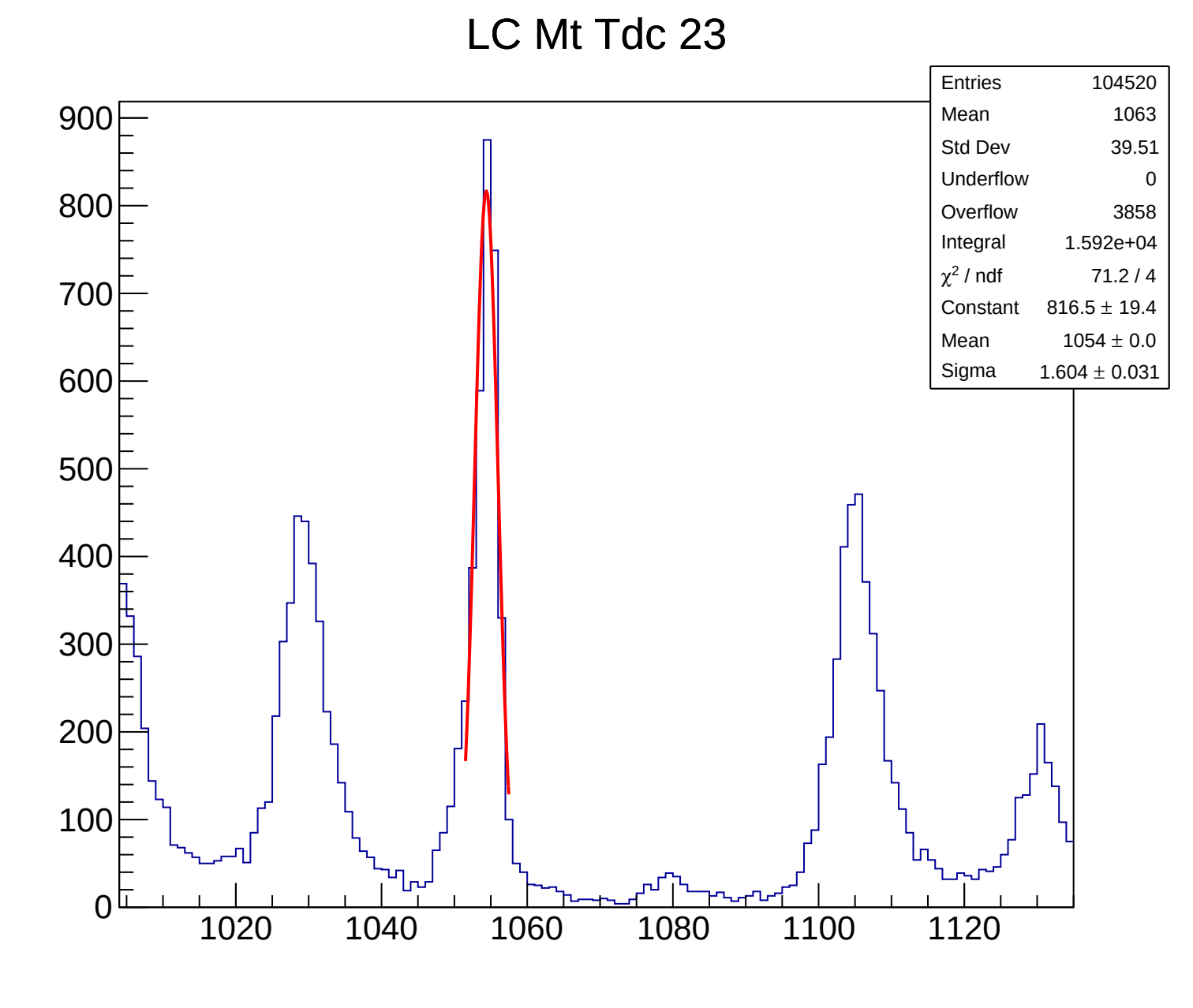

LC Mt Tdc 18
Entries 1349025
Mean 1077
Std Dev 40.66
Underflow 0
Overflow 5.447e+04
Integral 8.95e+04
χ² / ndf 104.4 / 4
Constant 1636 ± 27.7
Mean 1060 ± 0.0
Sigma 1.758 ± 0.027
1800
1600
1400
1200
1000
800
600
400
200
1020
1040
1060
1080
1100
1120
1140

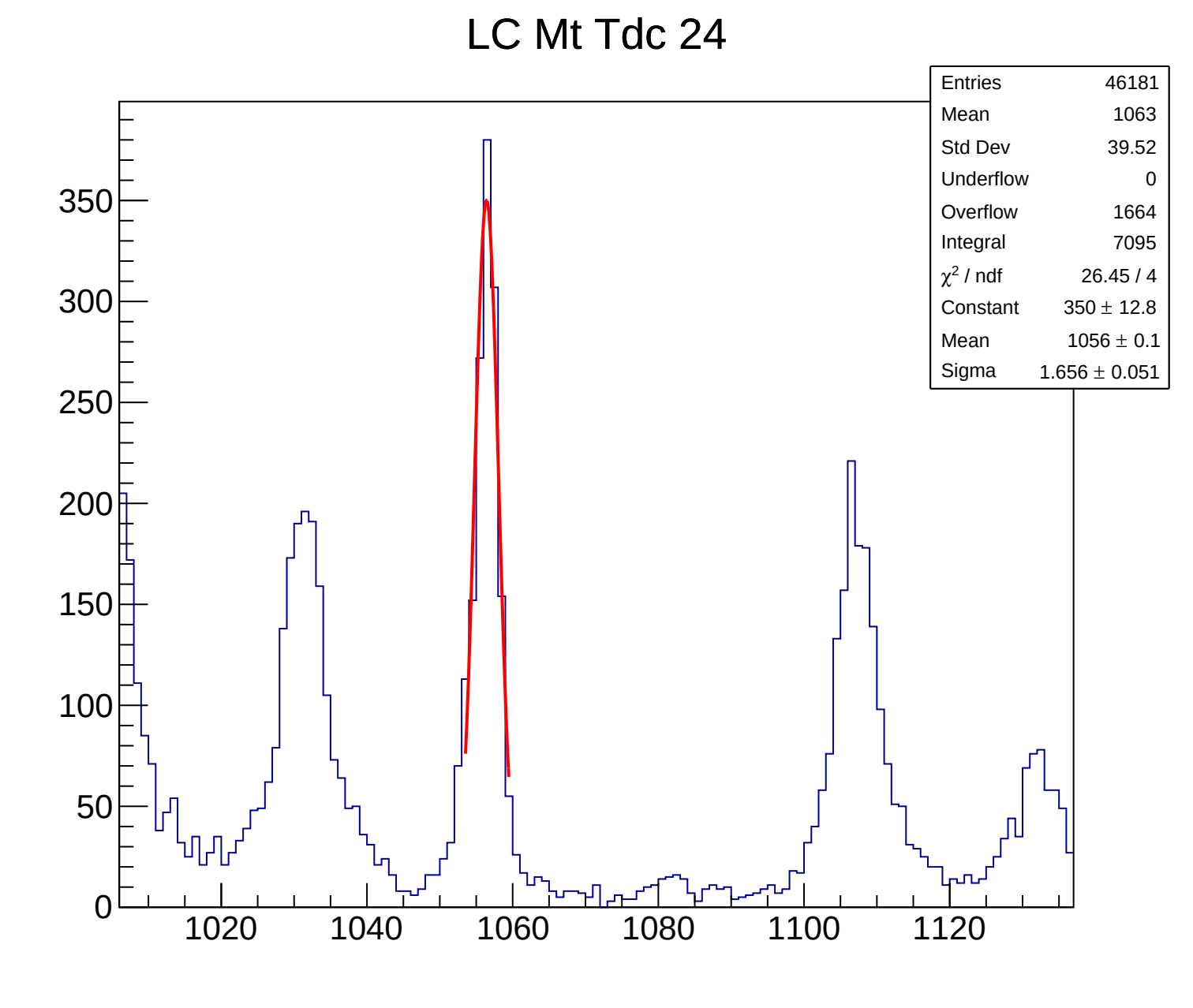

LC Mt Tdc 19
Entries 470073
Mean 1074
Std Dev 40.4
Underflow 0
Overflow 1.81e+04
Integral 4.589e+04
χ² / ndf 148.5 / 4
Constant 1611 ± 29.1
Mean 1060 ± 0.0
Sigma 1.544 ± 0.024
1600
1400
1200
1000
800
600
400
200
0
1020
1040
1060
1080
1100
1120
1140

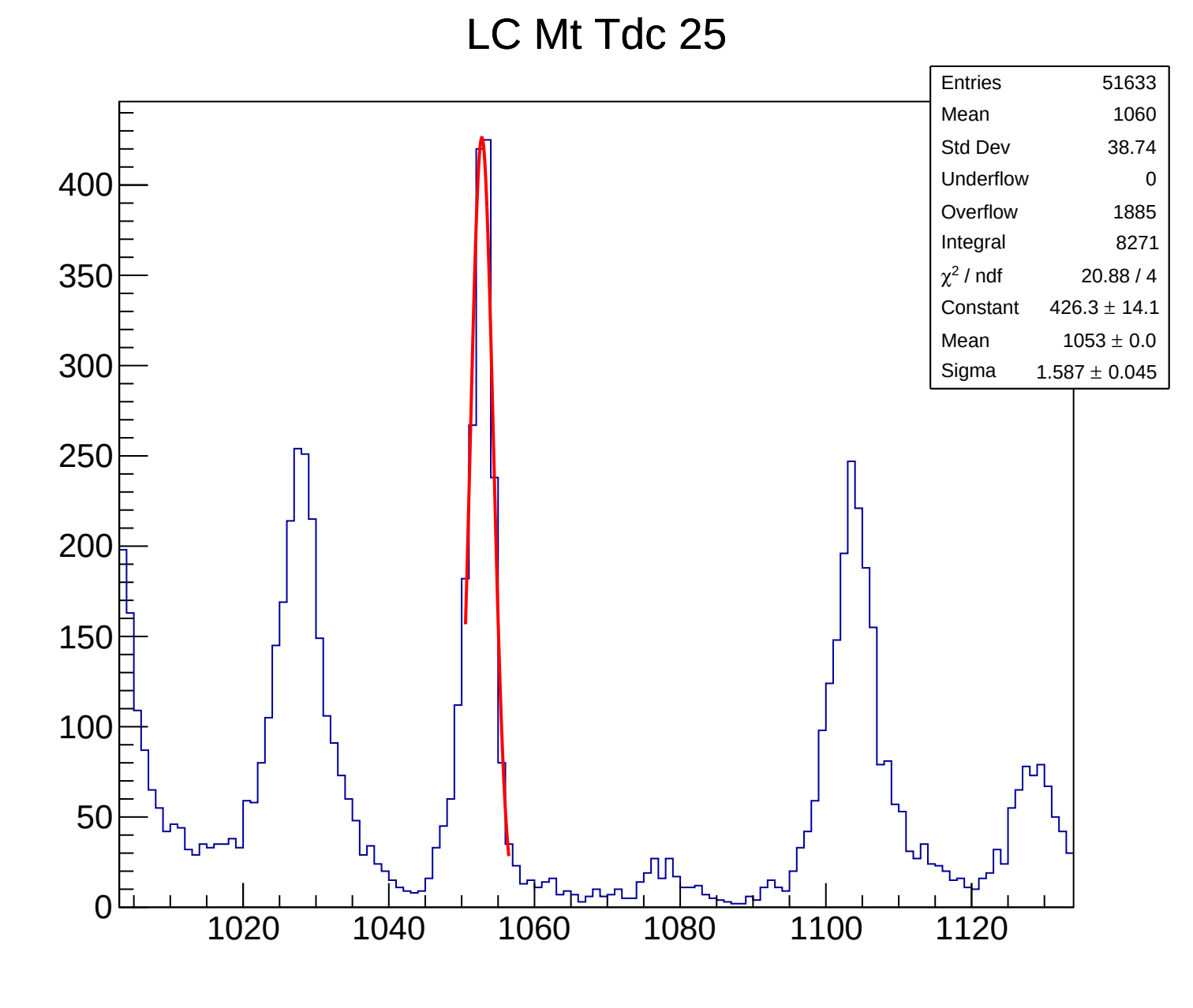

LC Mt Tdc 20
Entries 217309
Mean 1070
Std Dev 40.57
Underflow 0
Overflow 8636
Integral 2.342e+04
χ² / ndf 90.68 / 4
Constant 1100 ± 23.0
Mean 1057 ± 0.0
Sigma 1.609 ± 0.028
1200
1000
800
600
400
200
0
1020
1040
1060
1080
1100
1120

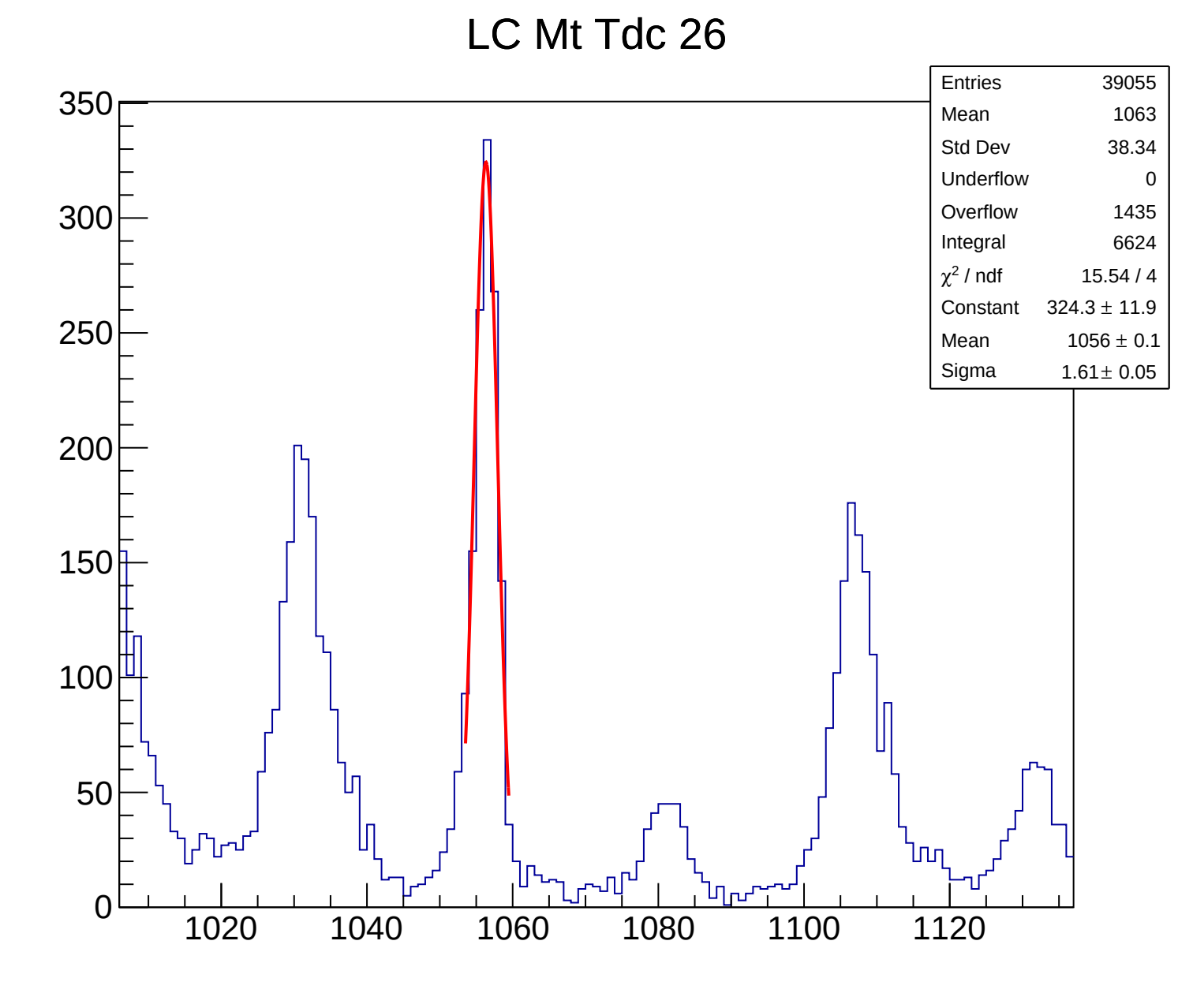

LC Mt Tdc 21
Entries 133213
Mean 1067
Std Dev 40.38
Underflow 0
Overflow 5113
Integral 1.615e+04
χ² / ndf 110.3 / 4
Constant 813 ± 20.2
Mean 1056 ± 0.0
Sigma 1.607 ± 0.033
900
800
700
600
500
400
300
200
100
0
1020
1040
1060
1080
1100
1120

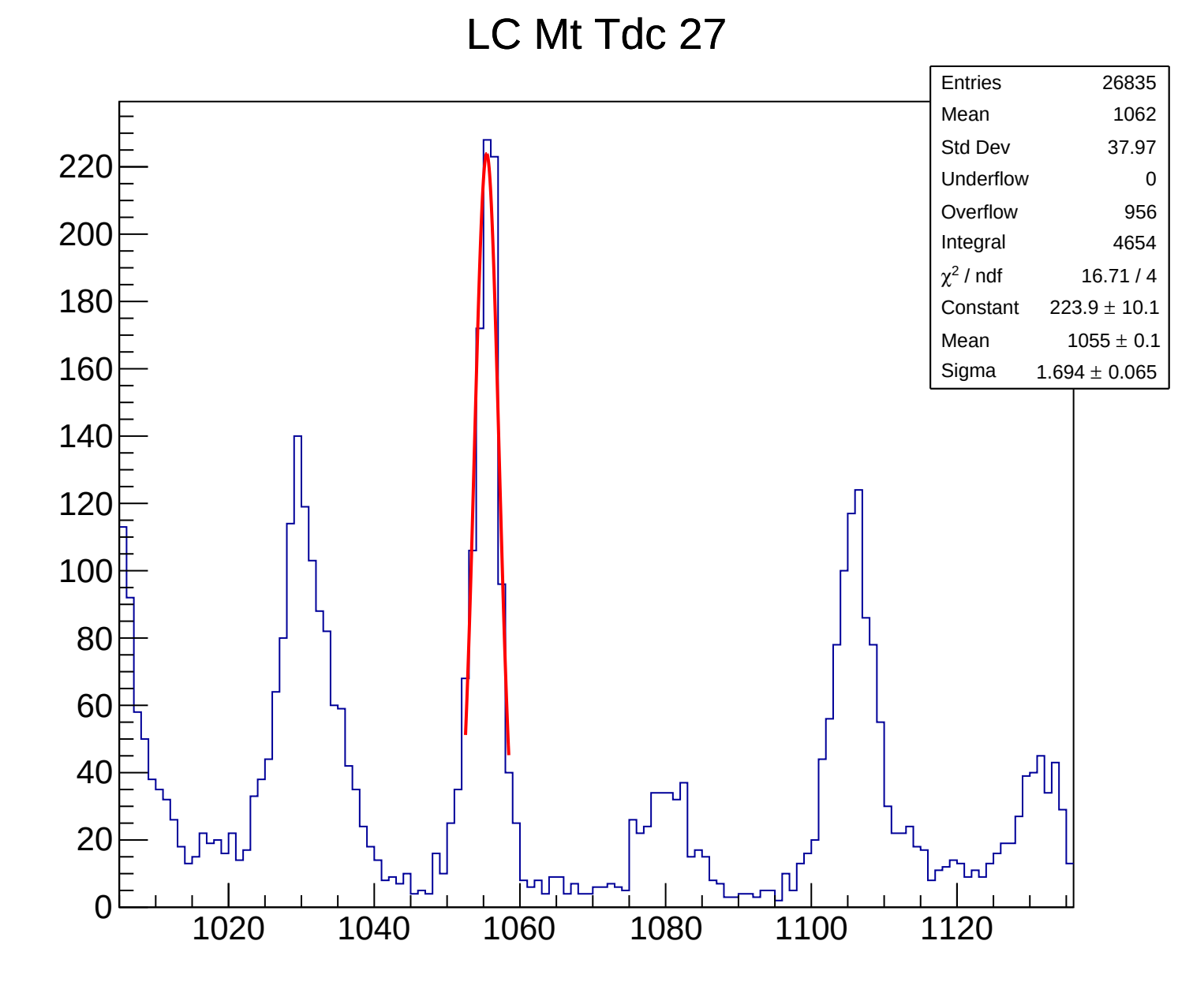

LC Mt Tdc 22
Entries 62473
Mean 1068
Std Dev 39.74
Underflow 0
Overflow 2426
Integral 8382
χ² / ndf 34.64 / 4
Constant 434.7 ± 14.4
Mean 1058 ± 0.0
Sigma 1.588 ± 0.042
450
400
350
300
250
200
150
100
50
0
1020
1040
1060
1080
1100
1120

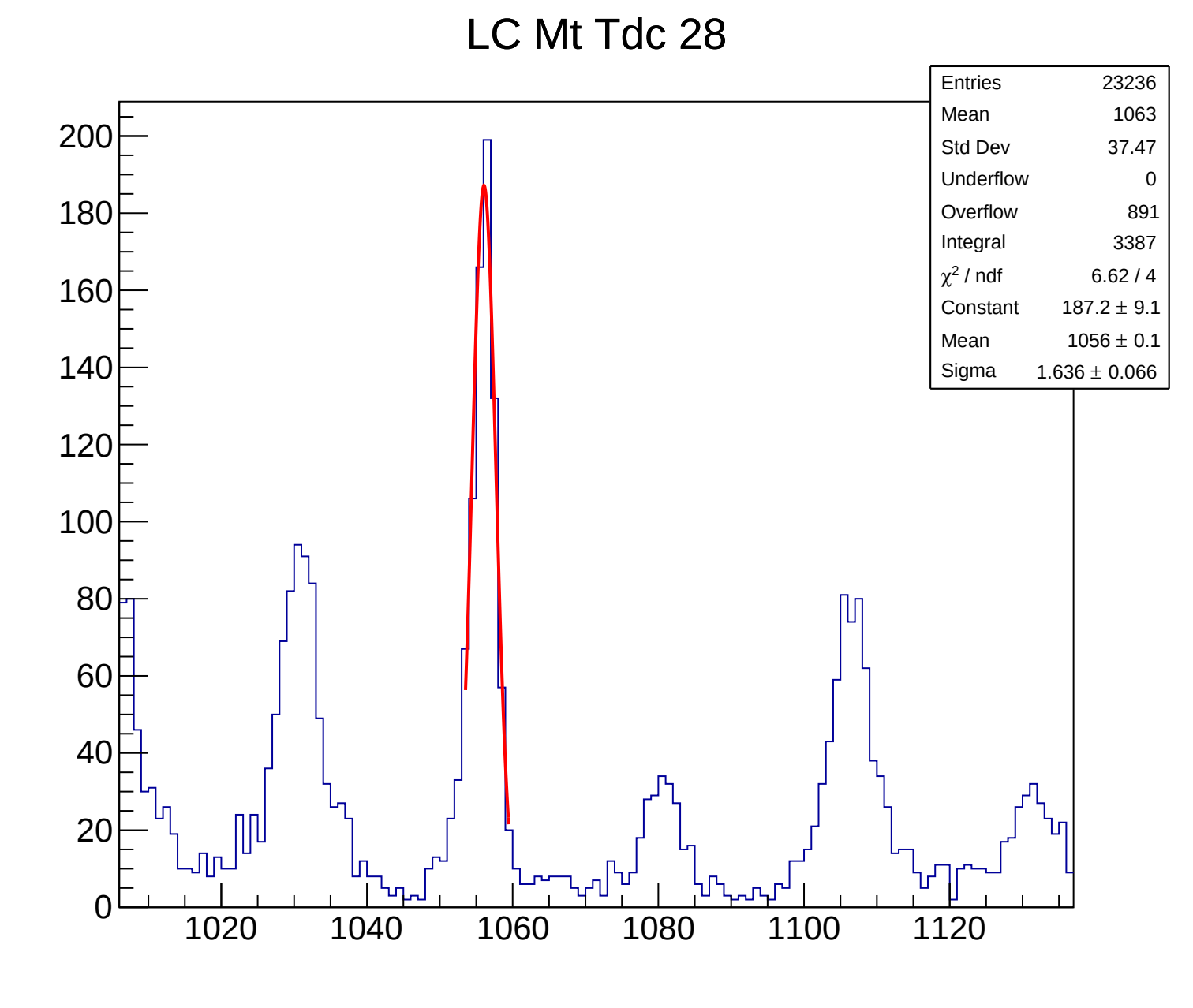

LC Mt Tdc 23
Entries 104520
Mean 1063
Std Dev 39.51
Underflow 0
Overflow 3858
Integral 1.592e+04
χ² / ndf 71.2 / 4
Constant 816.5 ± 19.4
Mean 1054 ± 0.0
Sigma 1.604 ± 0.031
900
800
700
600
500
400
300
200
100
0
1020
1040
1060
1080
1100
1120

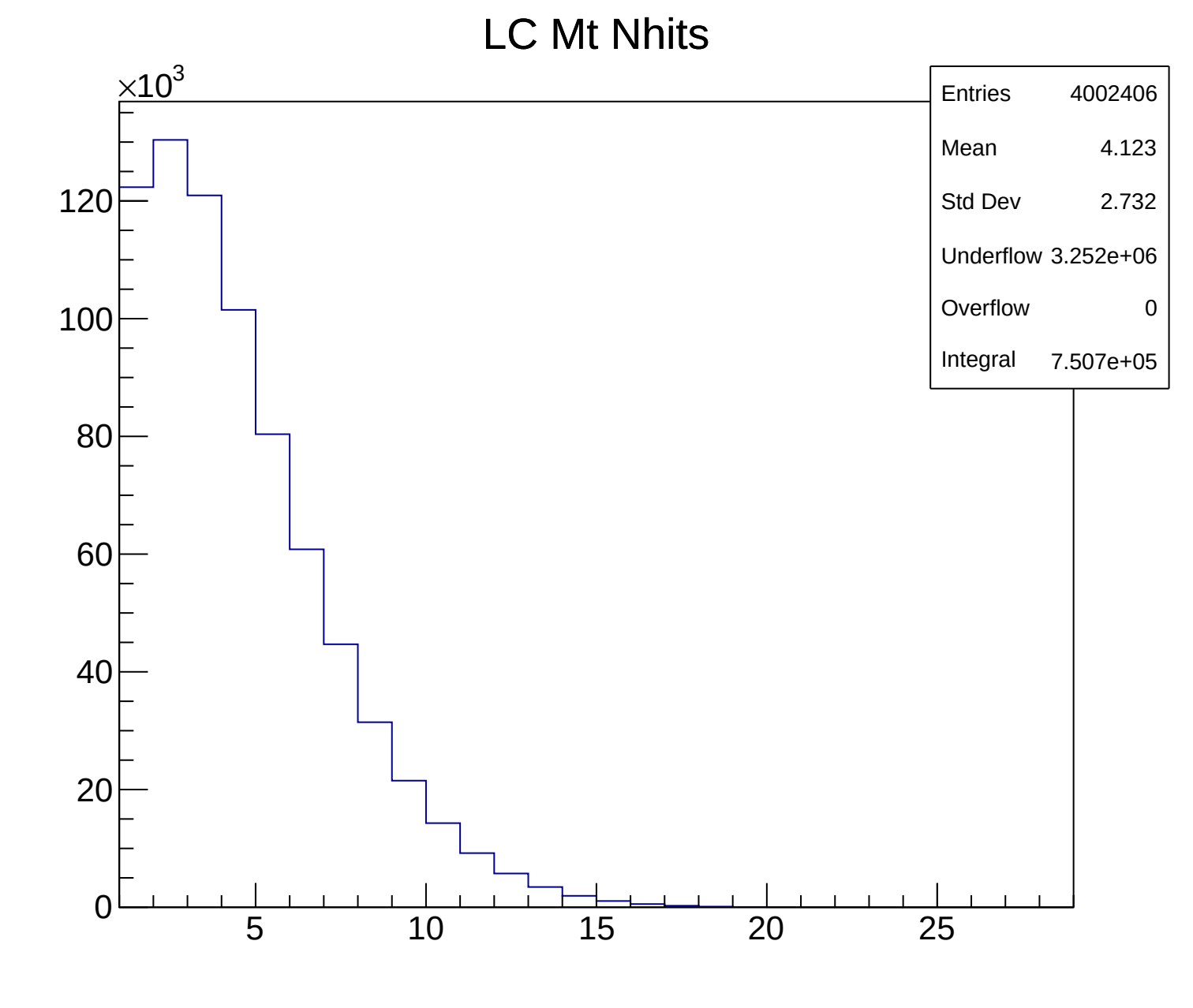

LC Mt Tdc 24
Entries 46181
Mean 1063
Std Dev 39.52
Underflow 0
Overflow 1664
Integral 7095
χ² / ndf 26.45 / 4
Constant 350 ± 12.8
Mean 1056 ± 0.1
Sigma 1.656 ± 0.051
350
300
250
200
150
100
50
0
1020
1040
1060
1080
1100
1120

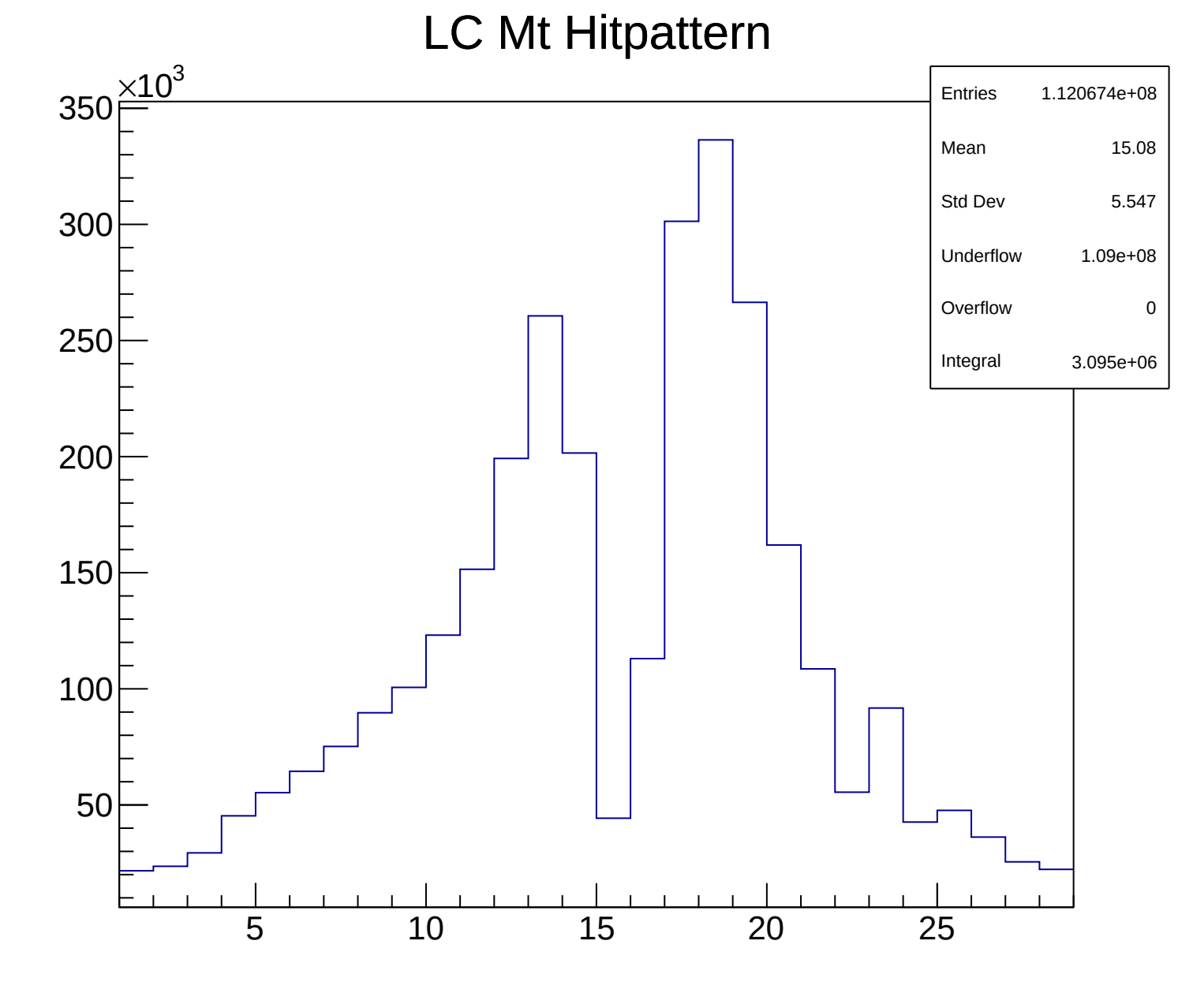

LC Mt Tdc 25
Entries 51633
Mean 1060
Std Dev 38.74
Underflow 0
Overflow 1885
Integral 8271
χ² / ndf 20.88 / 4
Constant 426.3 ± 14.1
Mean 1053 ± 0.0
Sigma 1.587 ± 0.045
400
350
300
250
200
150
100
50
0
1020
1040
1060
1080
1100
1120

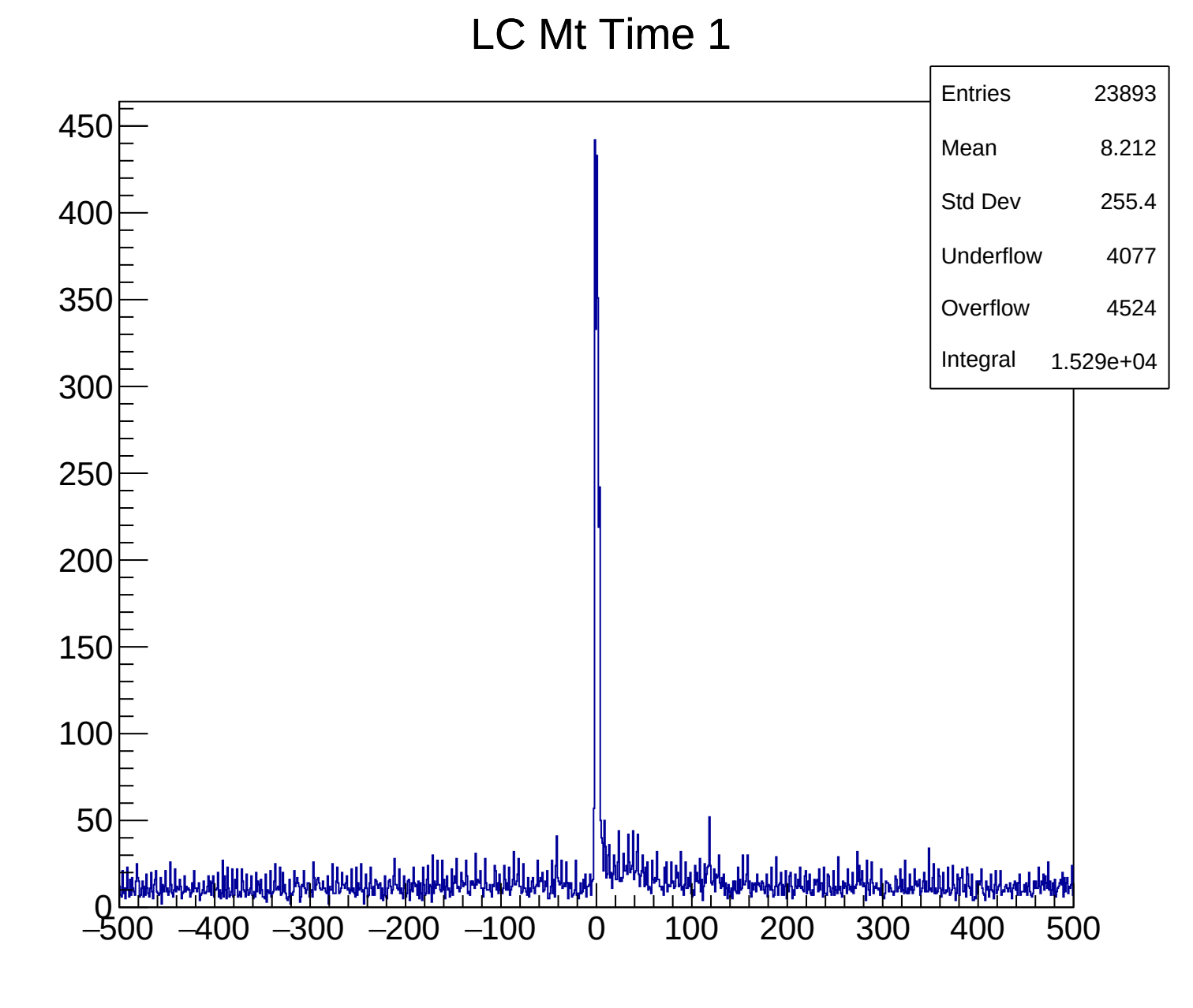

LC Mt Tdc 26
Entries 39055
Mean 1063
Std Dev 38.34
Underflow 0
Overflow 1435
Integral 6624
χ² / ndf 15.54 / 4
Constant 324.3 ± 11.9
Mean 1056 ± 0.1
Sigma 1.61± 0.05
350
300
250
200
150
100
50
0
1020
1040
1060
1080
1100
1120

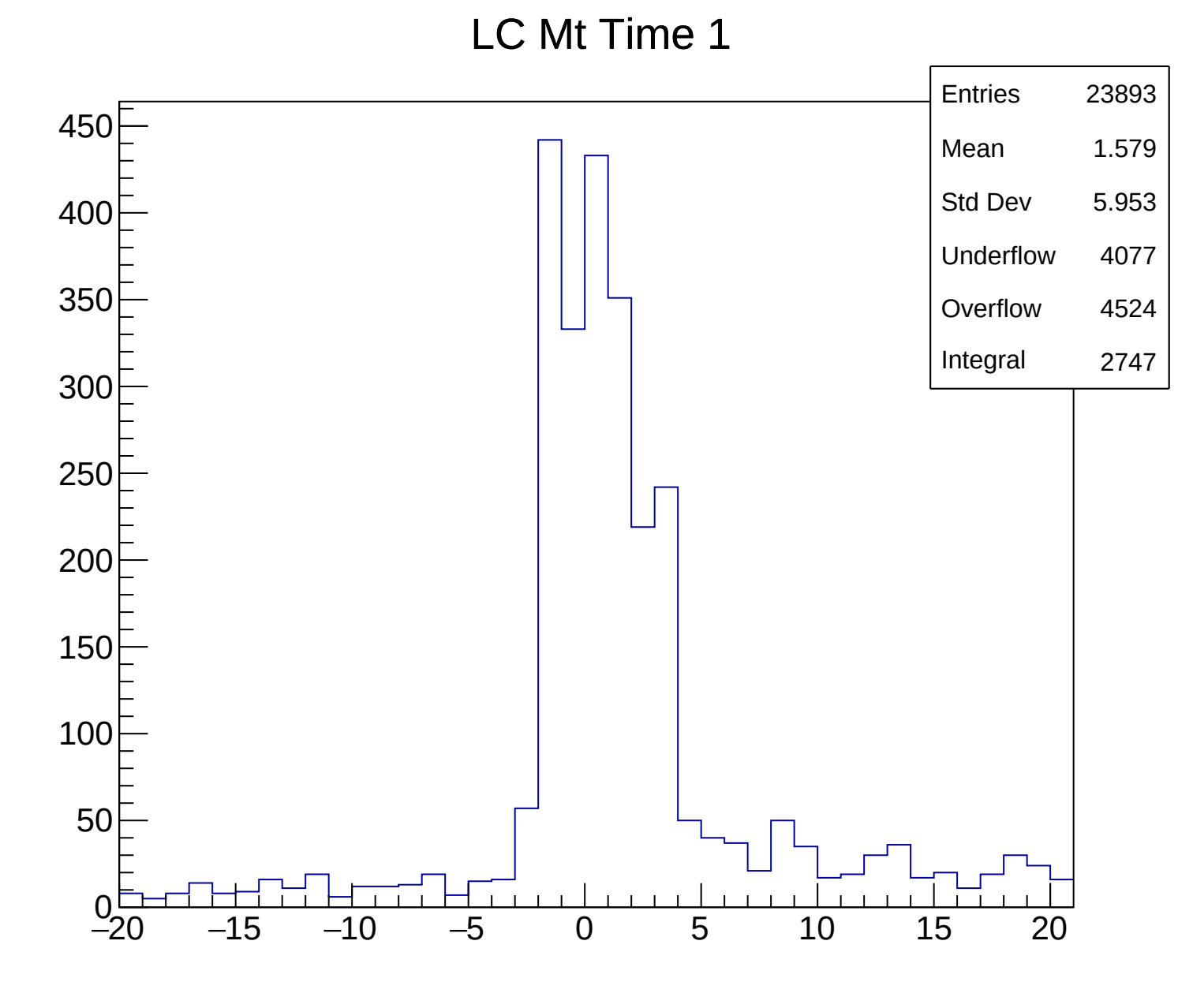

LC Mt Tdc 27
Entries 26835
Mean 1062
Std Dev 37.97
Underflow 0
Overflow 956
Integral 4654
χ² / ndf 16.71 / 4
Constant 223.9 ± 10.1
Mean 1055 ± 0.1
Sigma 1.694 ± 0.065
0
20
40
60
80
100
120
140
160
180
200
220
1020
1040
1060
1080
1100
1120

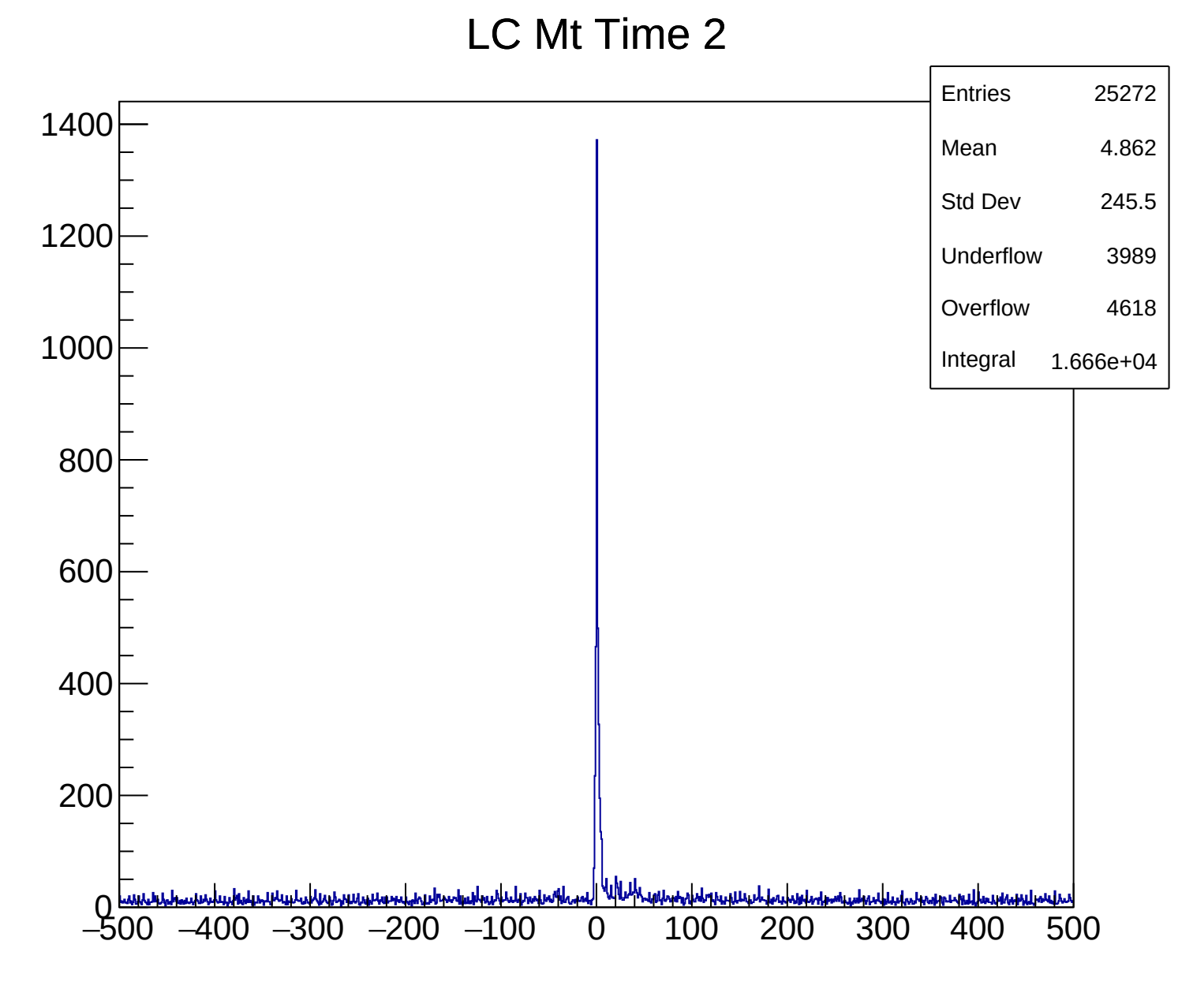

LC Mt Tdc 28
Entries 23236
Mean 1063
Std Dev 37.47
Underflow 0
Overflow 891
Integral 3387
χ² / ndf 6.62 / 4
Constant 187.2 ± 9.1
Mean 1056 ± 0.1
Sigma 1.636 ± 0.066
200
180
160
140
120
100
80
60
40
20
0
1020
1040
1060
1080
1100
1120

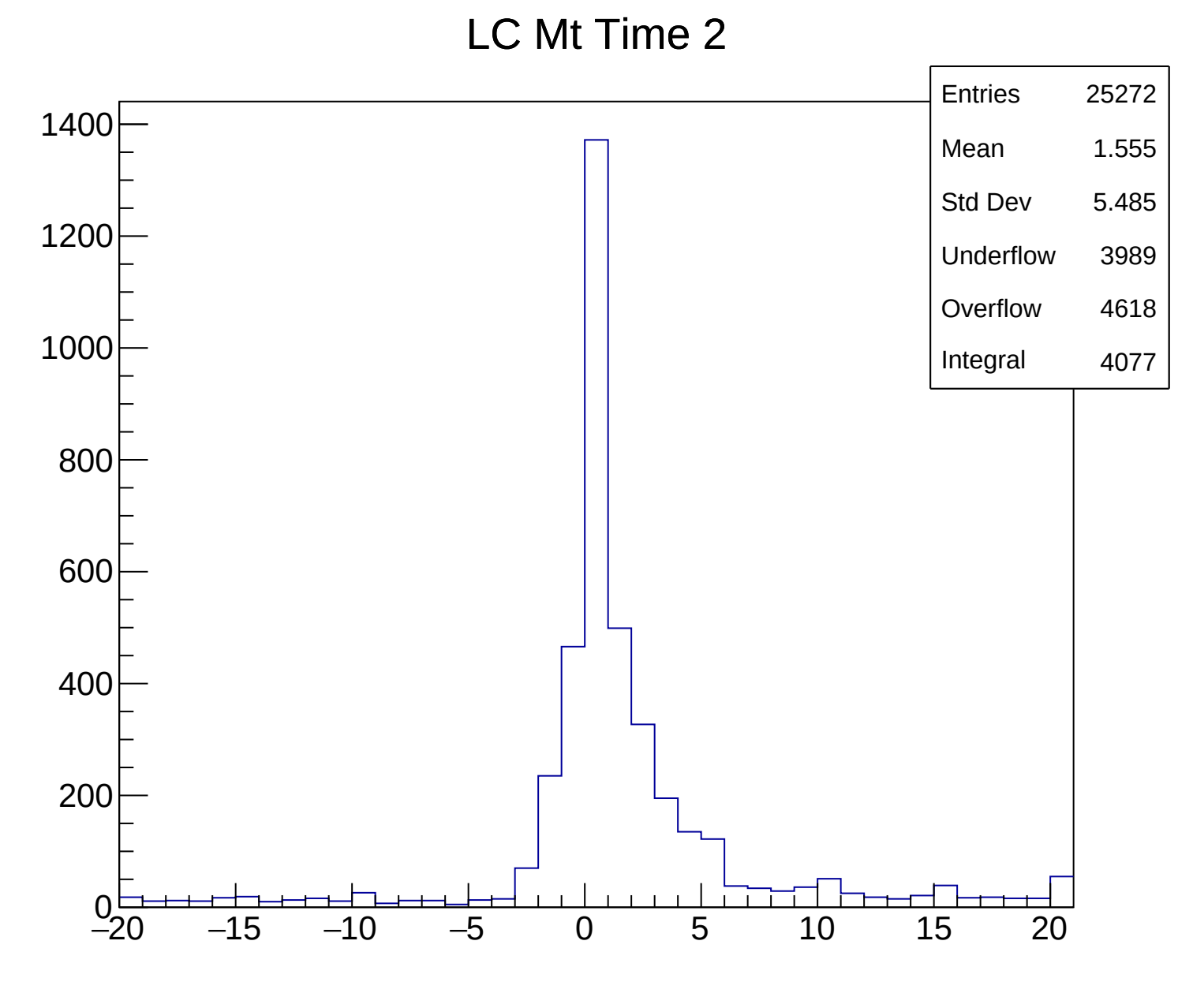

LC Mt Nhits
×10^3
120
100
80
60
40
20
0
5
10
15
20
25
Entries 4002406
Mean 4.123
Std Dev 2.732
Underflow 3.252e+06
Overflow 0
Integral 7.507e+05

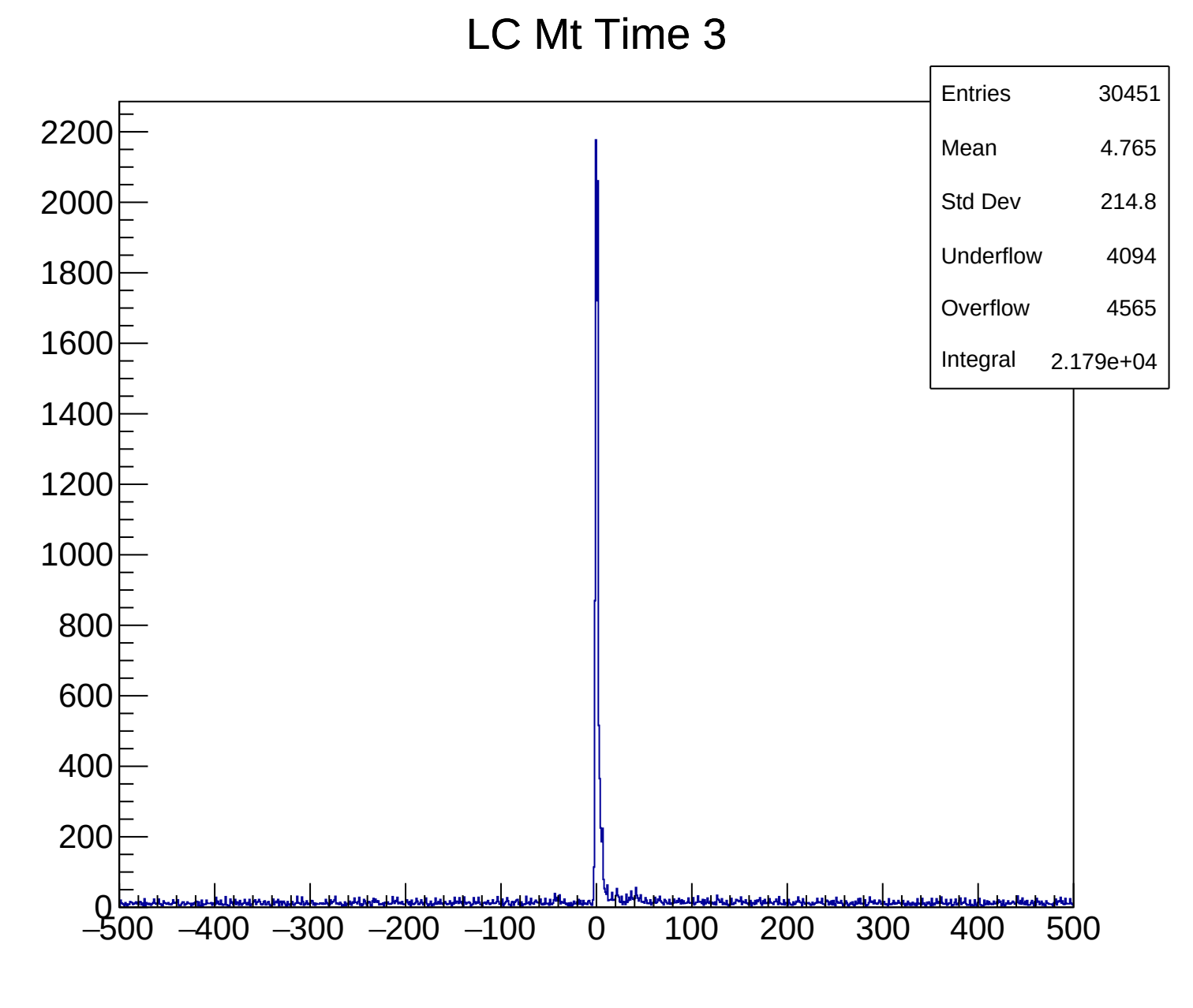

LC Mt Hitpattern
×10^3
350
300
250
200
150
100
50
5
10
15
20
25
Entries 1.120674e+08
Mean 15.08
Std Dev 5.547
Underflow 1.09e+08
Overflow 0
Integral 3.095e+06

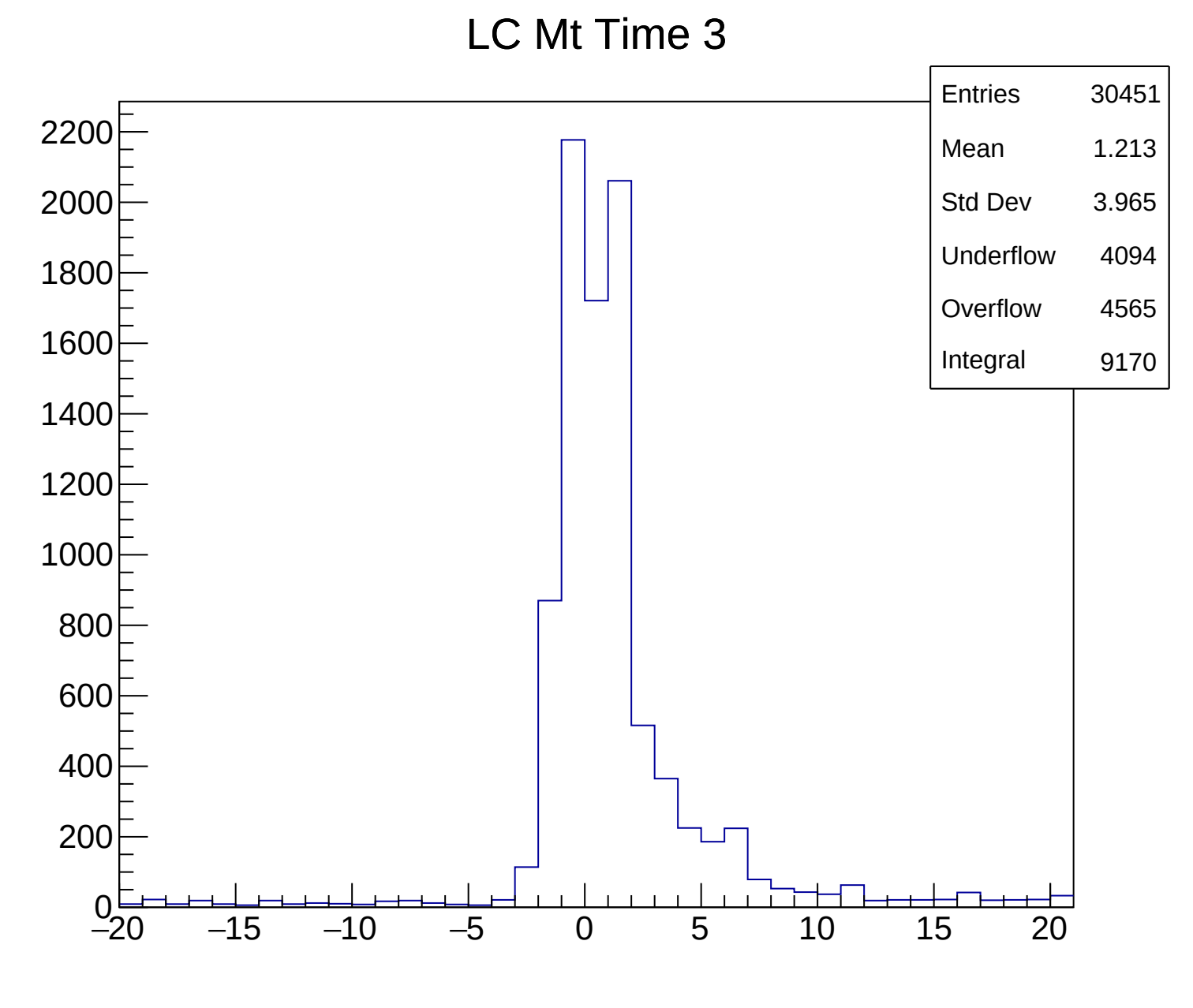

LC Mt Time 1
Entries 23893
Mean 8.212
Std Dev 255.4
Underflow 4077
Overflow 4524
Integral 1.529e+04
450
400
350
300
250
200
150
100
50
0
–500
–400
–300
–200
–100
0
100
200
300
400
500


LC Mt Time 1
Entries 23893
Mean 1.579
Std Dev 5.953
Underflow 4077
Overflow 4524
Integral 2747
450
400
350
300
250
200
150
100
50
0
–20
–15
–10
–5
0
5
10
15
20


LC Mt Time 2
Entries 25272
Mean 4.862
Std Dev 245.5
Underflow 3989
Overflow 4618
Integral 1.666e+04
1400
1200
1000
800
600
400
200
0
–500
–400
–300
–200
–100
0
100
200
300
400
500


LC Mt Time 2
Entries 25272
Mean 1.555
Std Dev 5.485
Underflow 3989
Overflow 4618
Integral 4077
1400
1200
1000
800
600
400
200
0
–20
–15
–10
–5
0
5
10
15
20


LC Mt Time 3
Entries 30451
Mean 4.765
Std Dev 214.8
Underflow 4094
Overflow 4565
Integral 2.179e+04
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
–500
–400
–300
–200
–100
0
100
200
300
400
500


LC Mt Time 3
Entries 30451
Mean 1.213
Std Dev 3.965
Underflow 4094
Overflow 4565
Integral 9170
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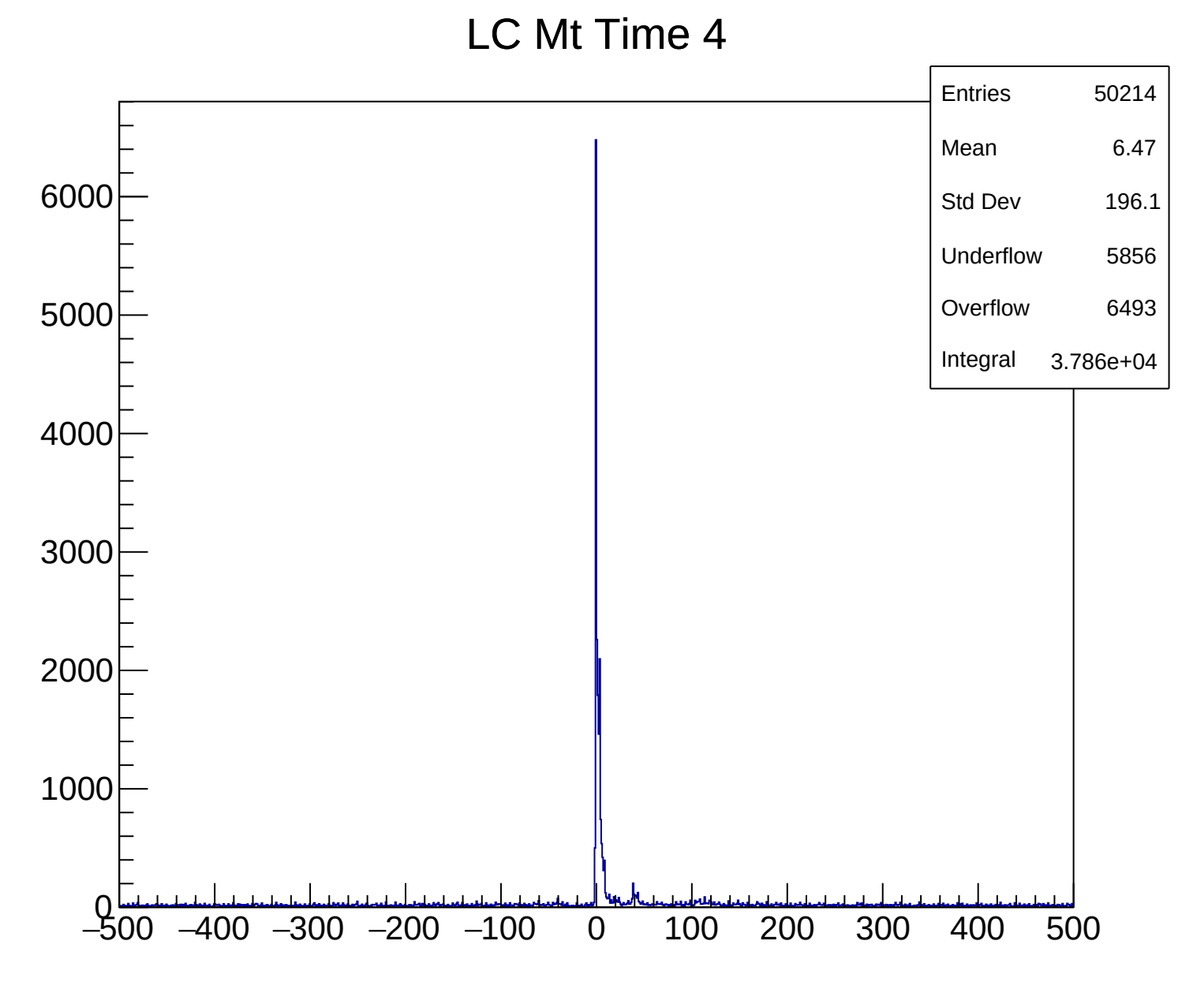
LC Mt Time 4
Entries 50214
Mean 6.47
Std Dev 196.1
Underflow 5856
Overflow 6493
Integral 3.786e+04
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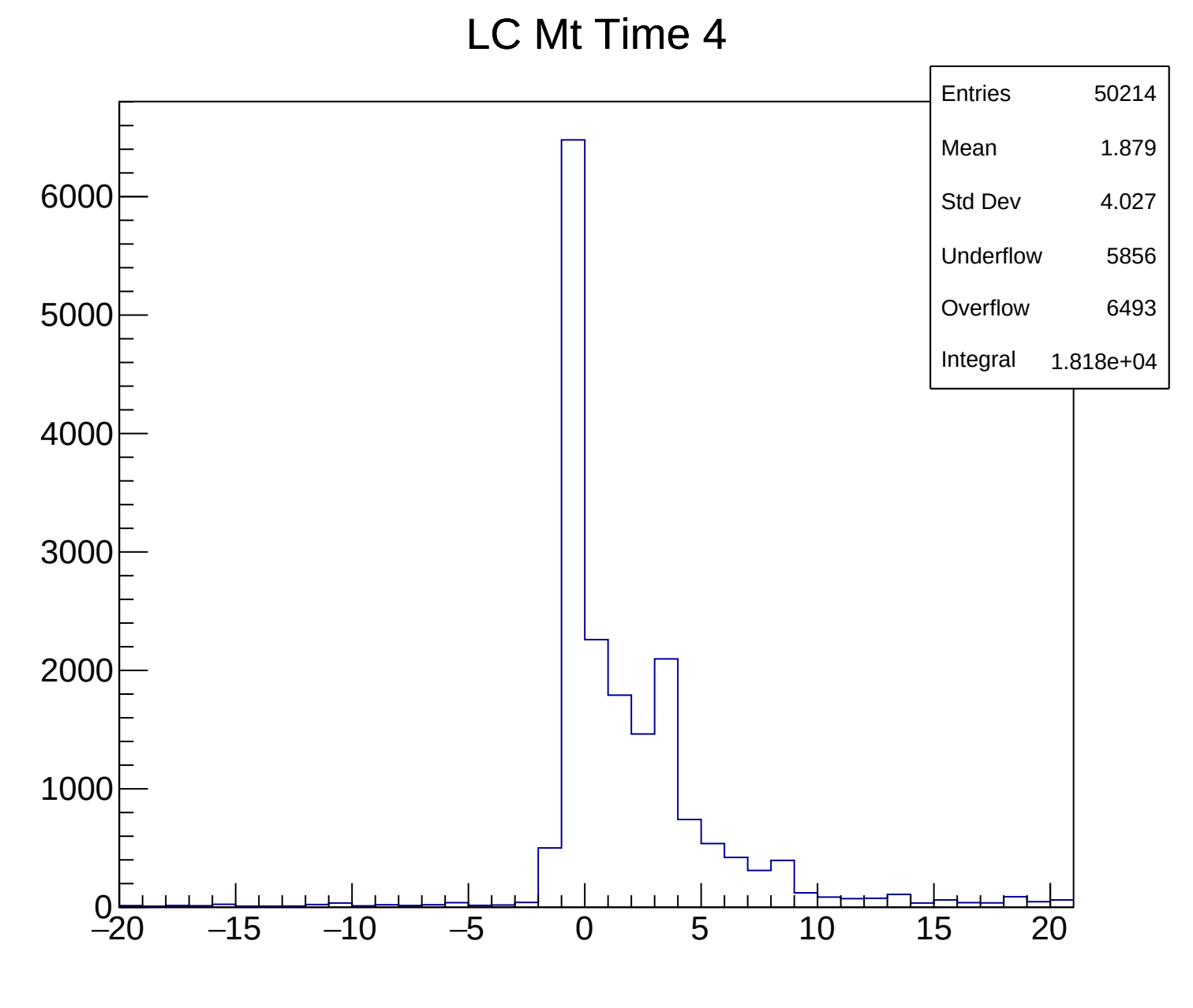
LC Mt Time 4
Entries 50214
Mean 1.879
Std Dev 4.027
Underflow 5856
Overflow 6493
Integral 1.818e+04
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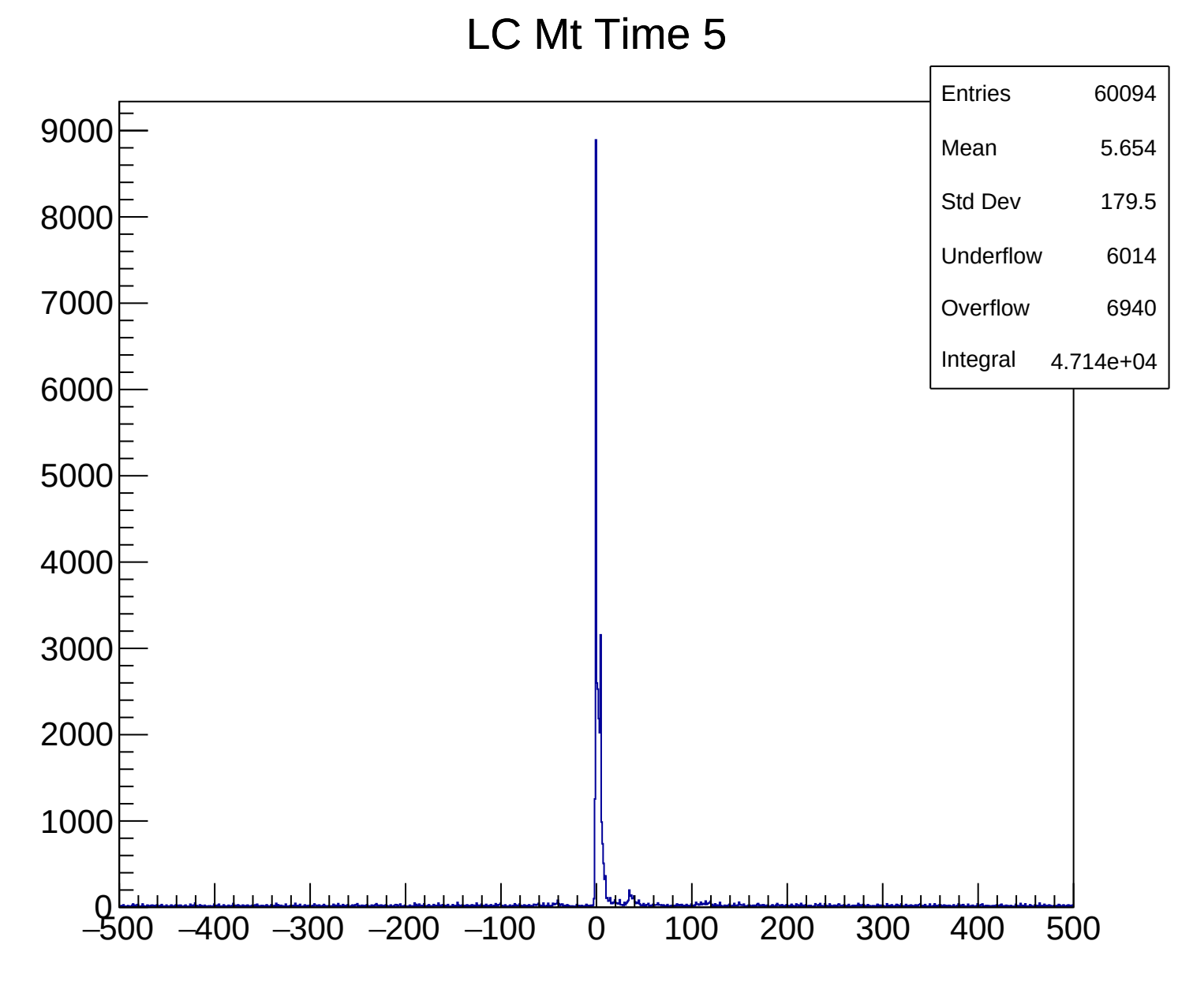
LC Mt Time 5
Entries 60094
Mean 5.654
Std Dev 179.5
Underflow 6014
Overflow 6940
Integral 4.714e+04
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8000
7000
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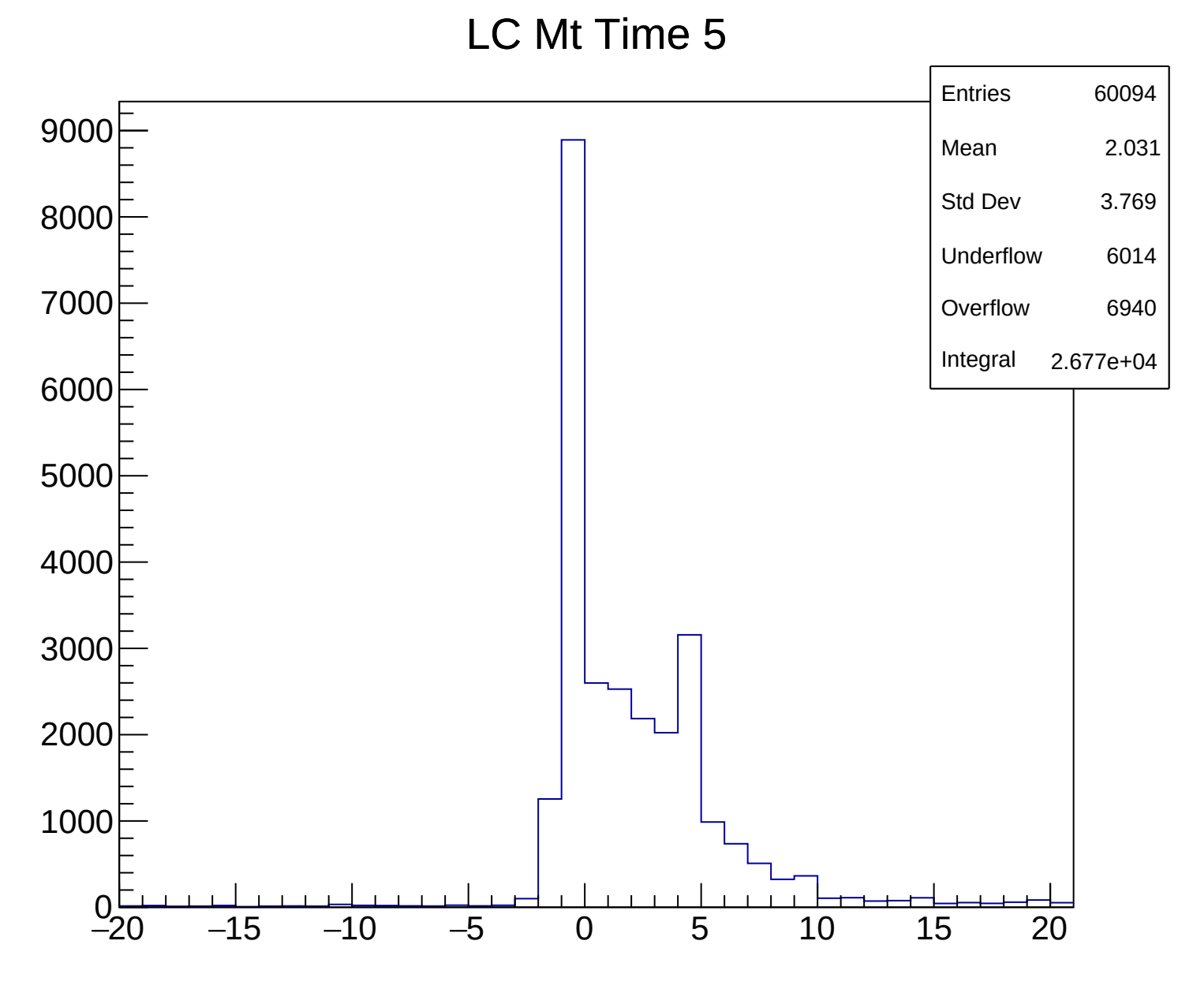
LC Mt Time 5
Entries 60094
Mean 2.031
Std Dev 3.769
Underflow 6014
Overflow 6940
Integral 2.677e+04
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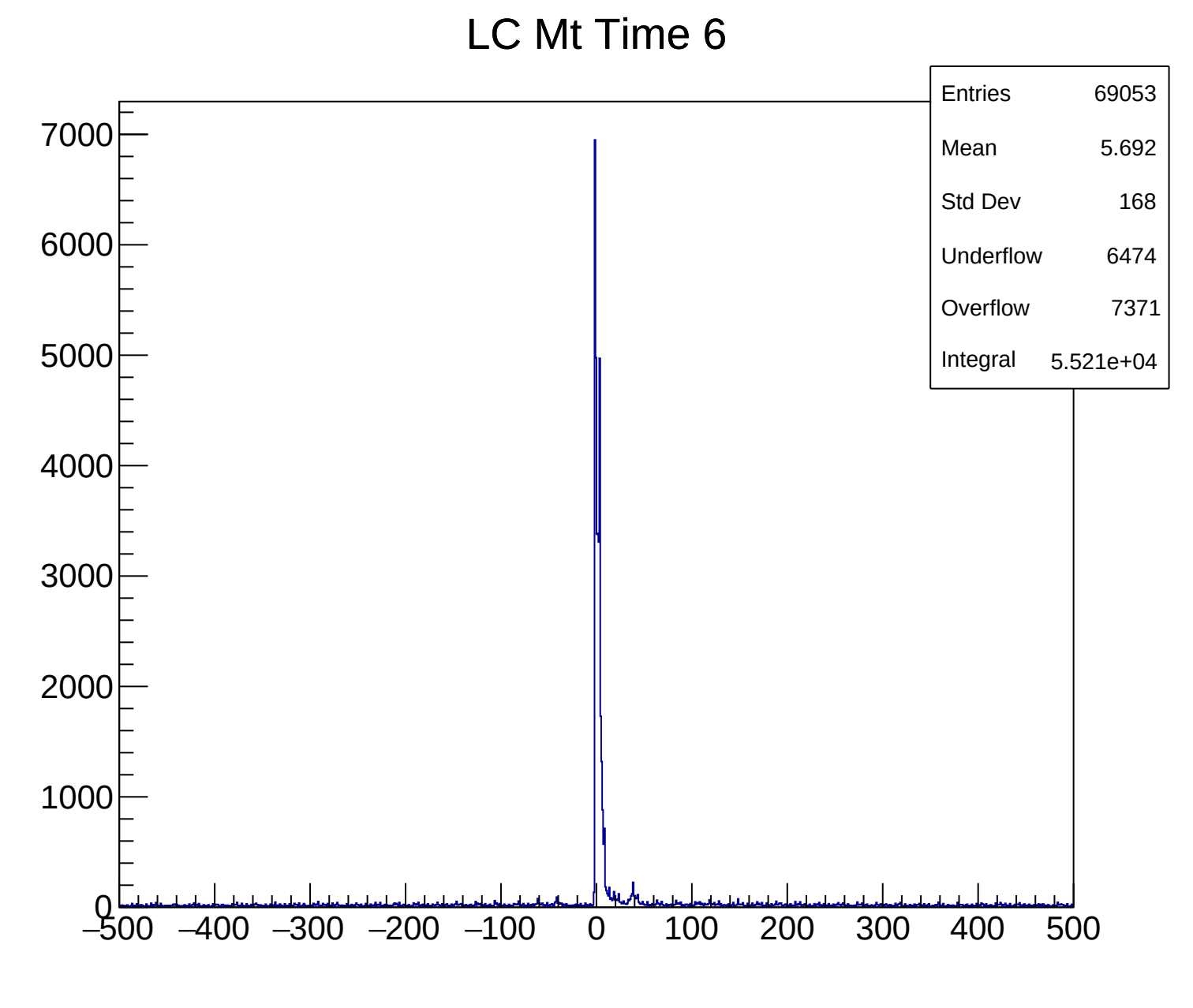
LC Mt Time 6
Entries 69053
Mean 5.692
Std Dev 168
Underflow 6474
Overflow 7371
Integral 5.521e+04
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1000
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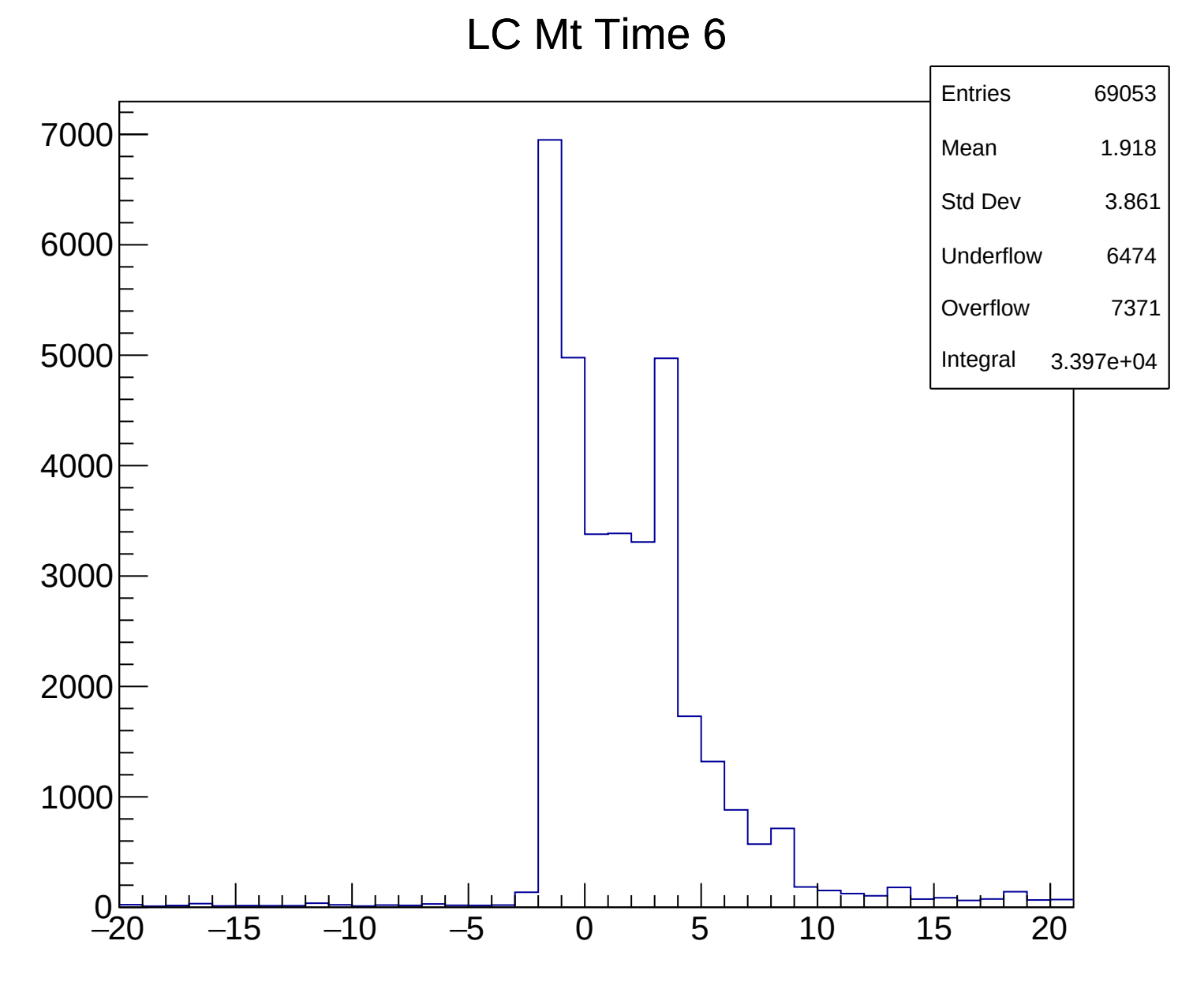
LC Mt Time 6
Entries 69053
Mean 1.918
Std Dev 3.861
Underflow 6474
Overflow 7371
Integral 3.397e+04
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1000
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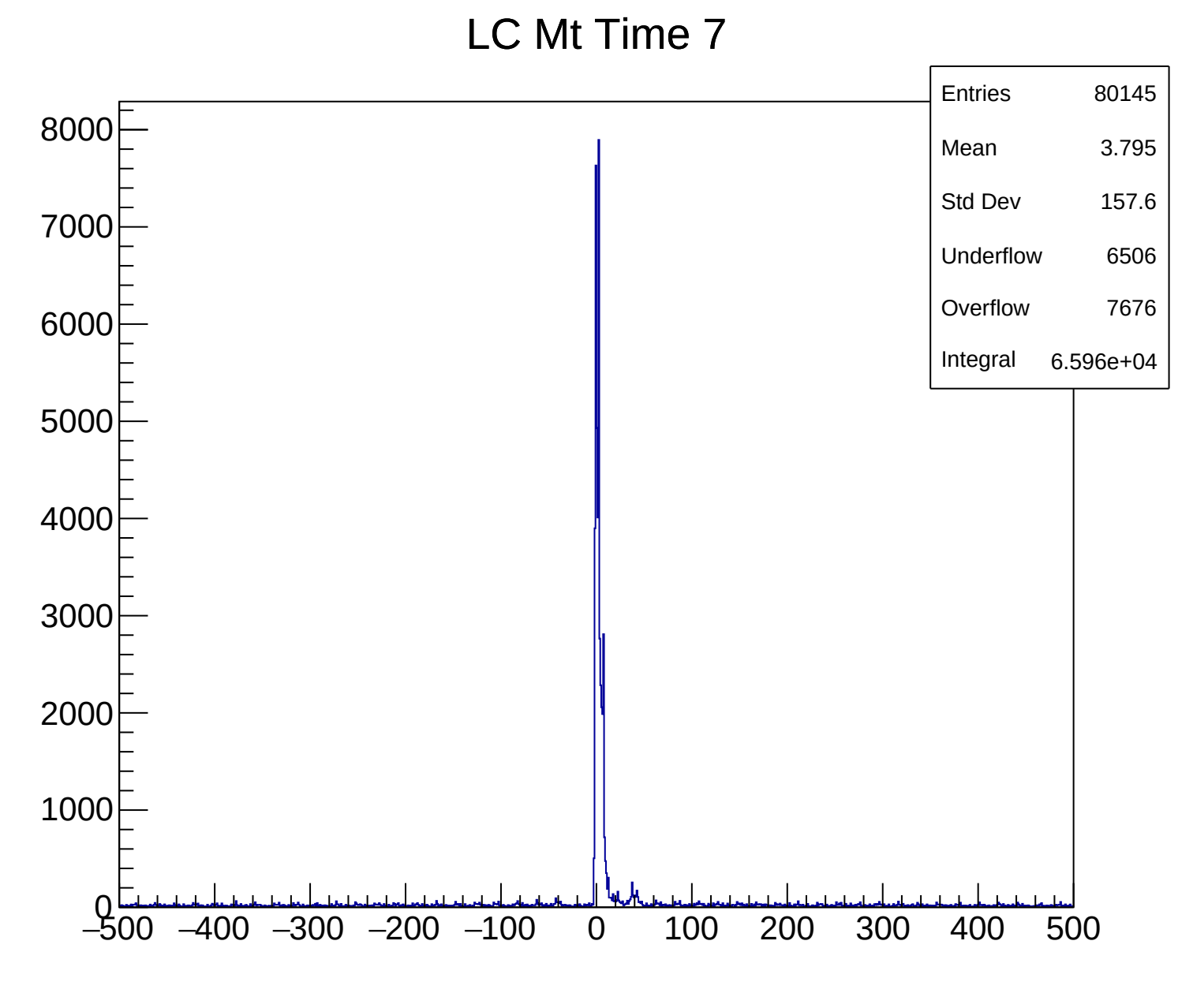
LC Mt Time 7
Entries 80145
Mean 3.795
Std Dev 157.6
Underflow 6506
Overflow 7676
Integral 6.596e+04
8000
7000
6000
5000
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3000
2000
1000
0
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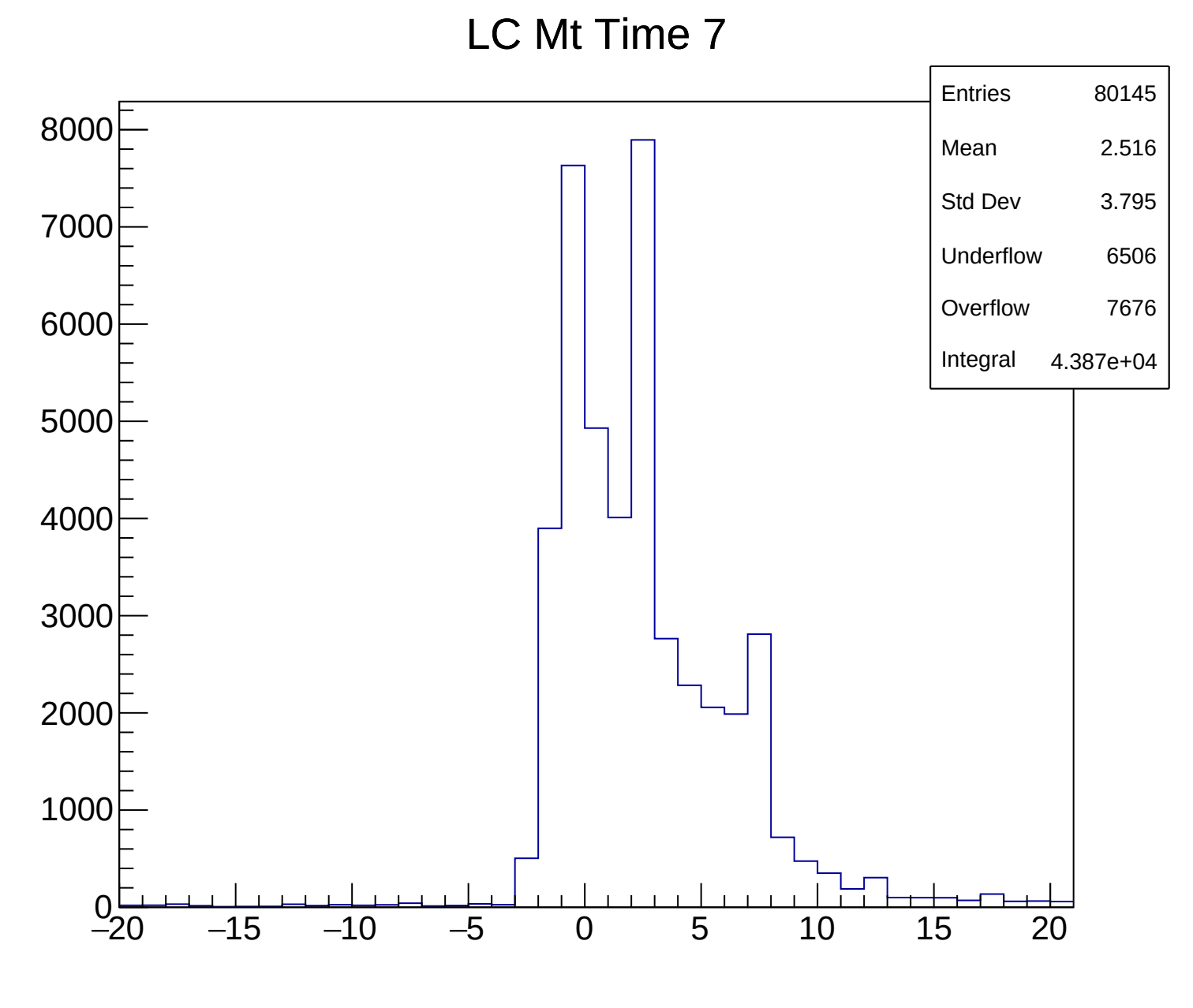
LC Mt Time 7
Entries 80145
Mean 2.516
Std Dev 3.795
Underflow 6506
Overflow 7676
Integral 4.387e+04
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7000
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5000
4000
3000
2000
1000
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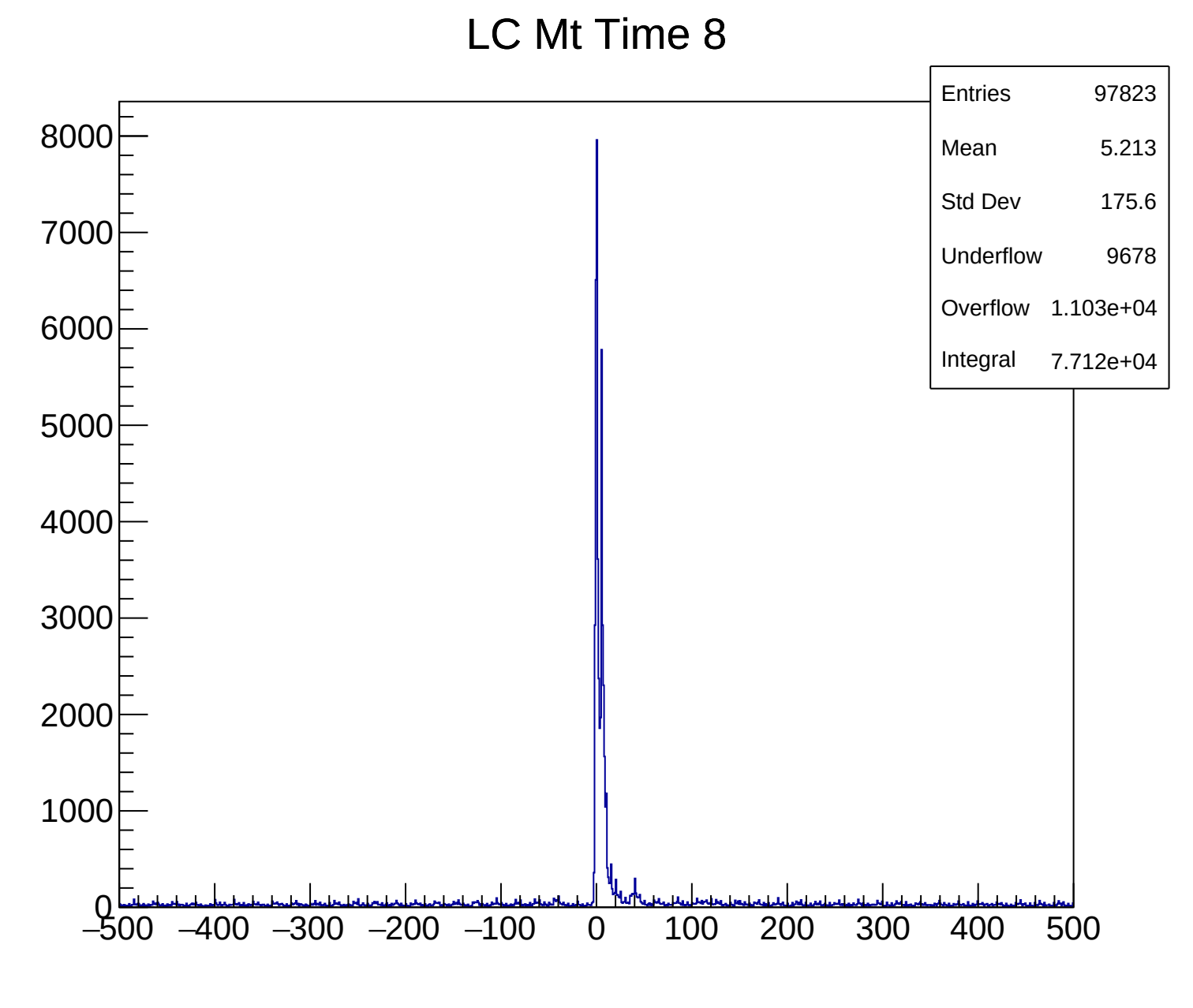
LC Mt Time 8
Entries 97823
Mean 5.213
Std Dev 175.6
Underflow 9678
Overflow 1.103e+04
Integral 7.712e+04
8000
7000
6000
5000
4000
3000
2000
1000
0
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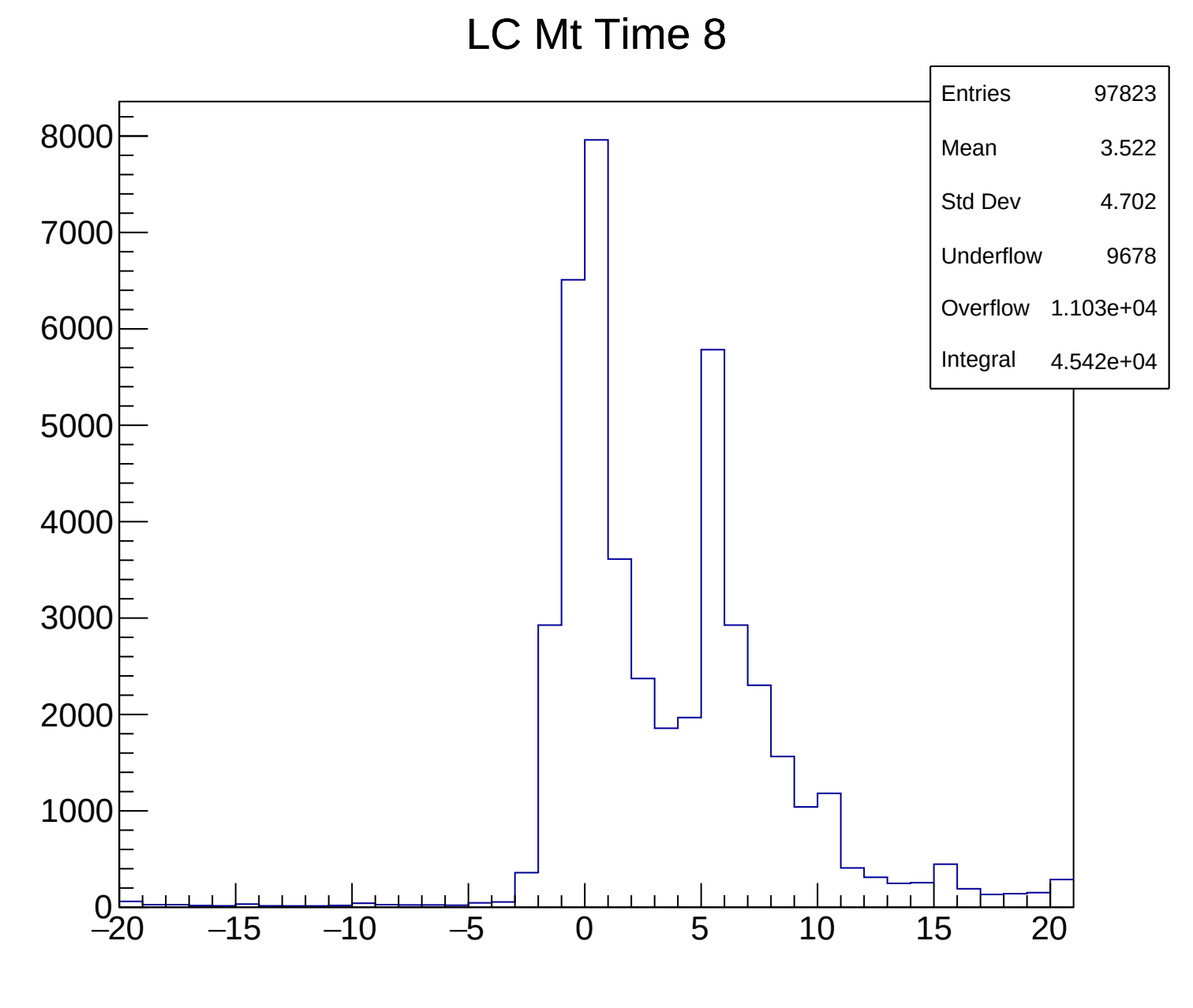
LC Mt Time 8
Entries 97823
Mean 3.522
Std Dev 4.702
Underflow 9678
Overflow 1.103e+04
Integral 4.542e+04
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5000
4000
3000
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1000
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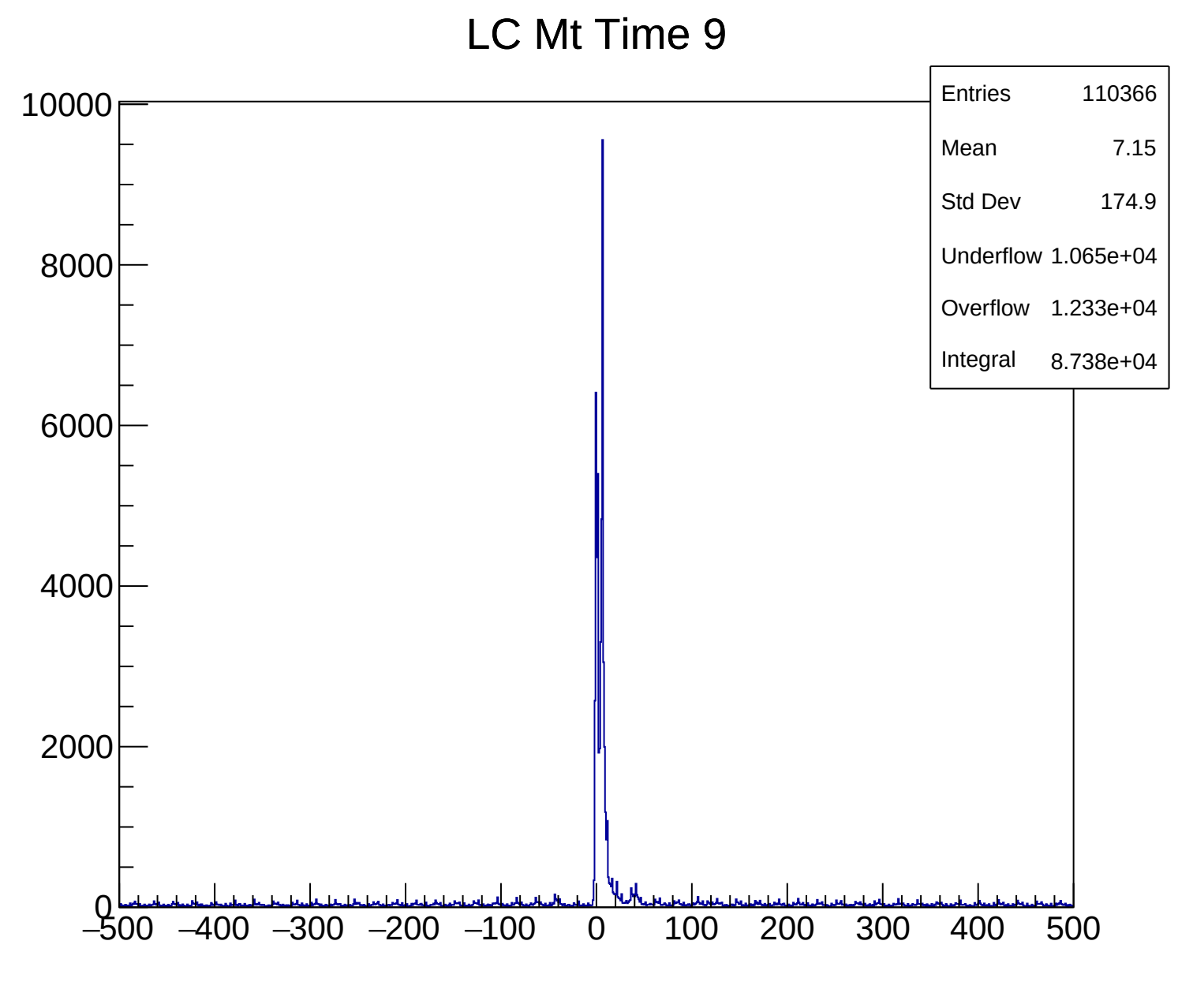
LC Mt Time 9
Entries 110366
Mean 7.15
Std Dev 174.9
Underflow 1.065e+04
Overflow 1.233e+04
Integral 8.738e+04
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6000
4000
2000
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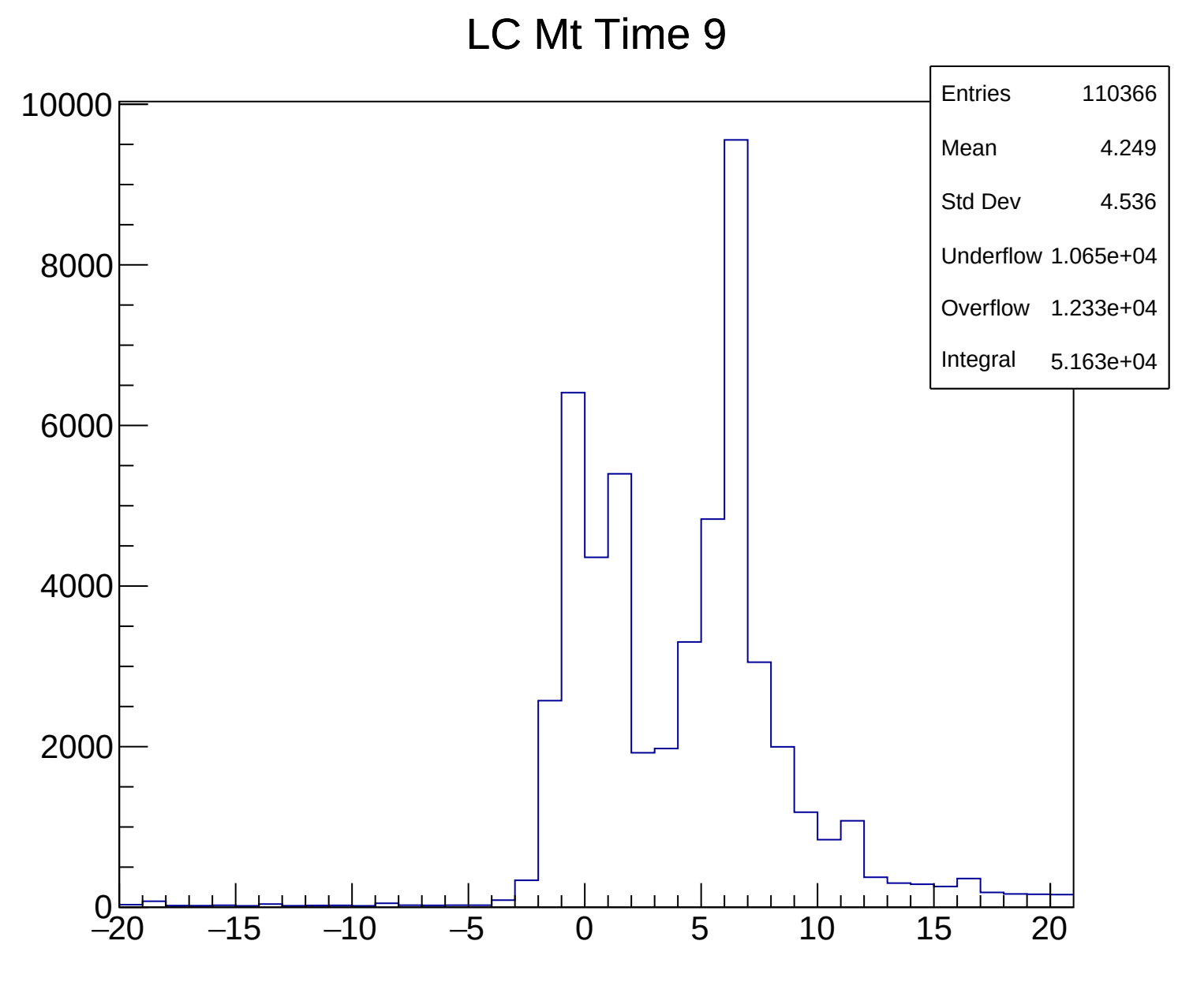
LC Mt Time 9
Entries 110366
Mean 4.249
Std Dev 4.536
Underflow 1.065e+04
Overflow 1.233e+04
Integral 5.163e+04
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6000
4000
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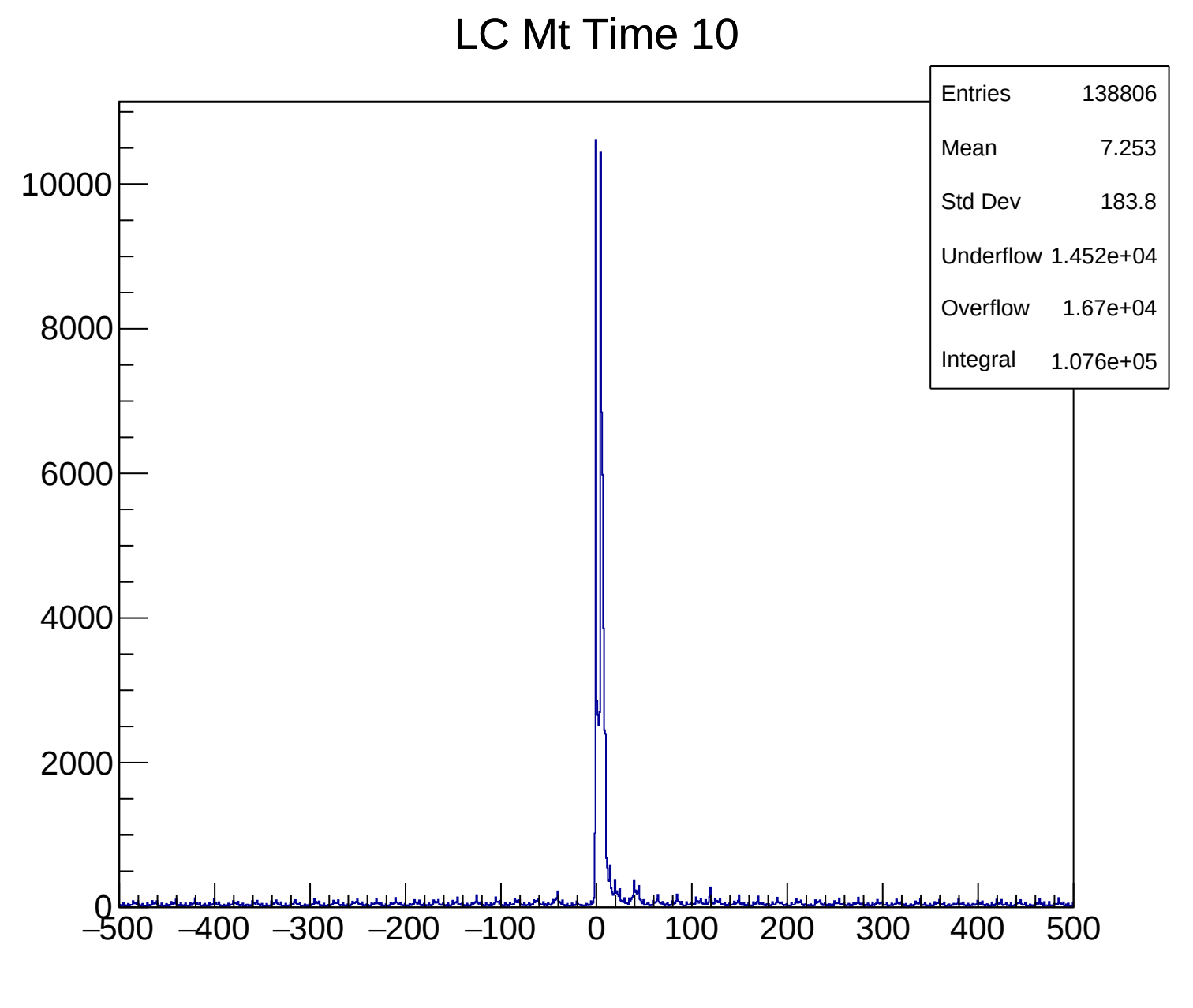
LC Mt Time 10
Entries 138806
Mean 7.253
Std Dev 183.8
Underflow 1.452e+04
Overflow 1.67e+04
Integral 1.076e+05
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6000
4000
2000
0
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–400
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–200
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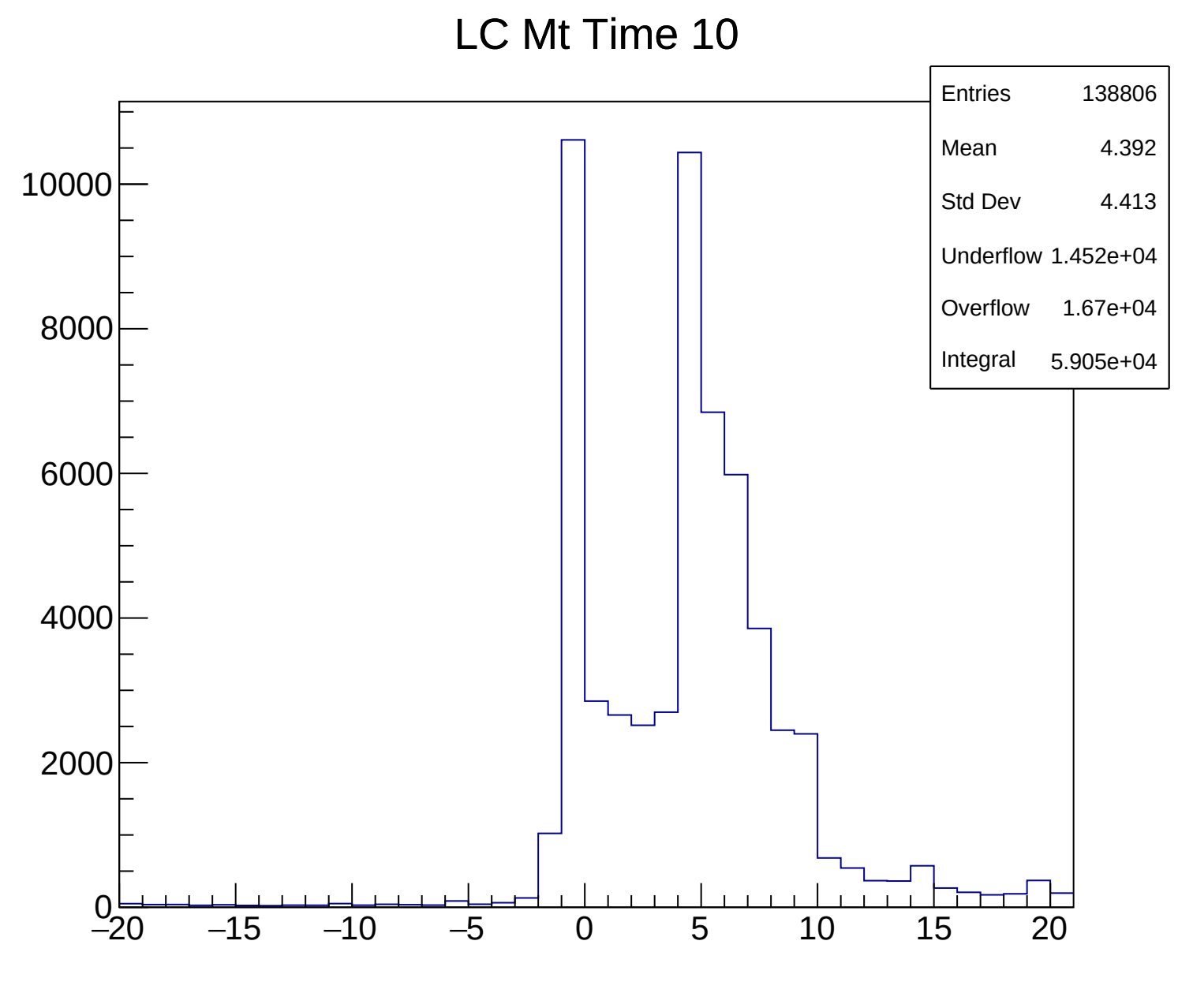
LC Mt Time 10
Entries 138806
Mean 4.392
Std Dev 4.413
Underflow 1.452e+04
Overflow 1.67e+04
Integral 5.905e+04
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6000
4000
2000
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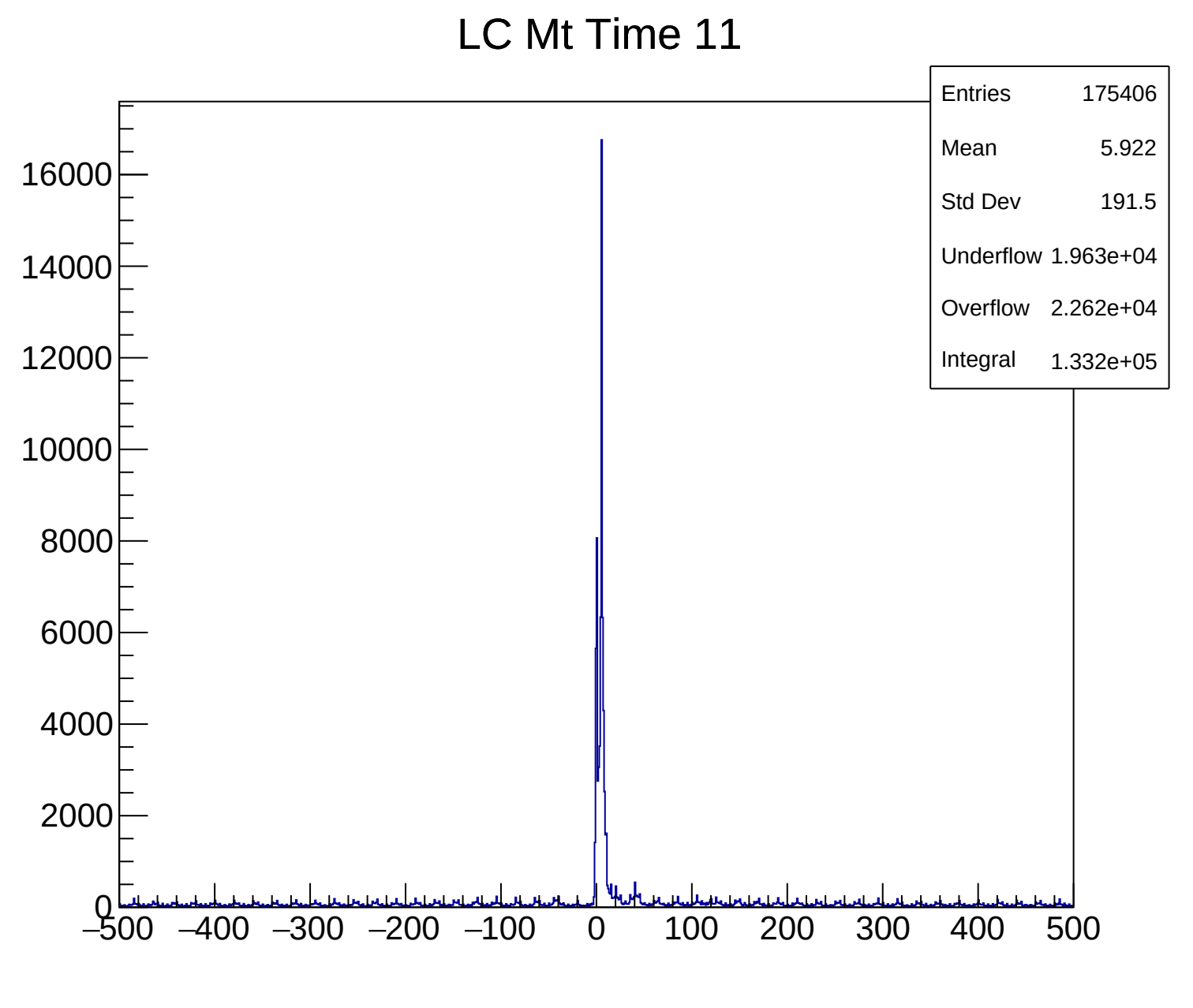
LC Mt Time 11
Entries 175406
Mean 5.922
Std Dev 191.5
Underflow 1.963e+04
Overflow 2.262e+04
Integral 1.332e+05
16000
14000
12000
10000
8000
6000
4000
2000
0
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–400
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300
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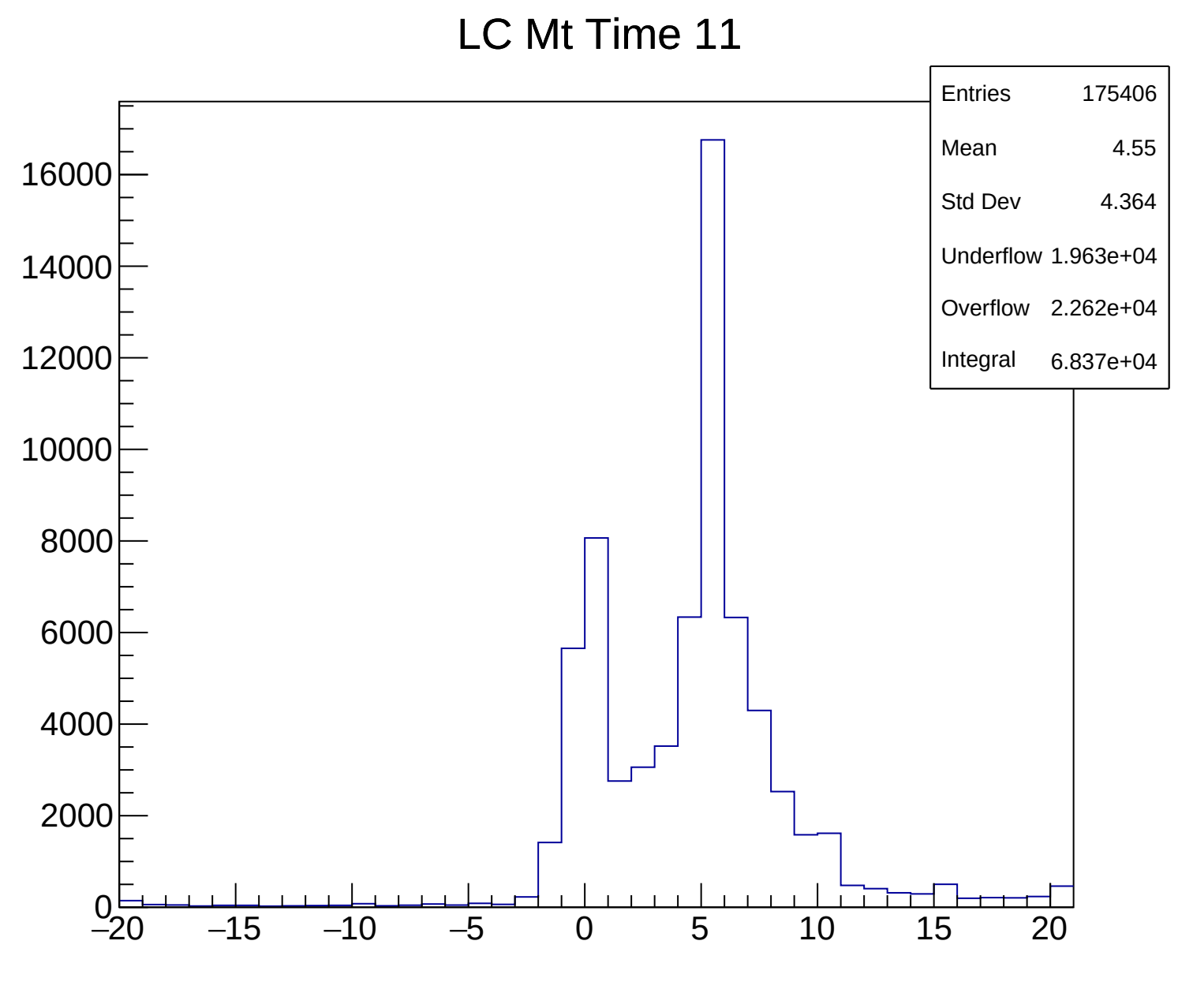
LC Mt Time 11
Entries 175406
Mean 4.55
Std Dev 4.364
Underflow 1.963e+04
Overflow 2.262e+04
Integral 6.837e+04
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14000
12000
10000
8000
6000
4000
2000
0
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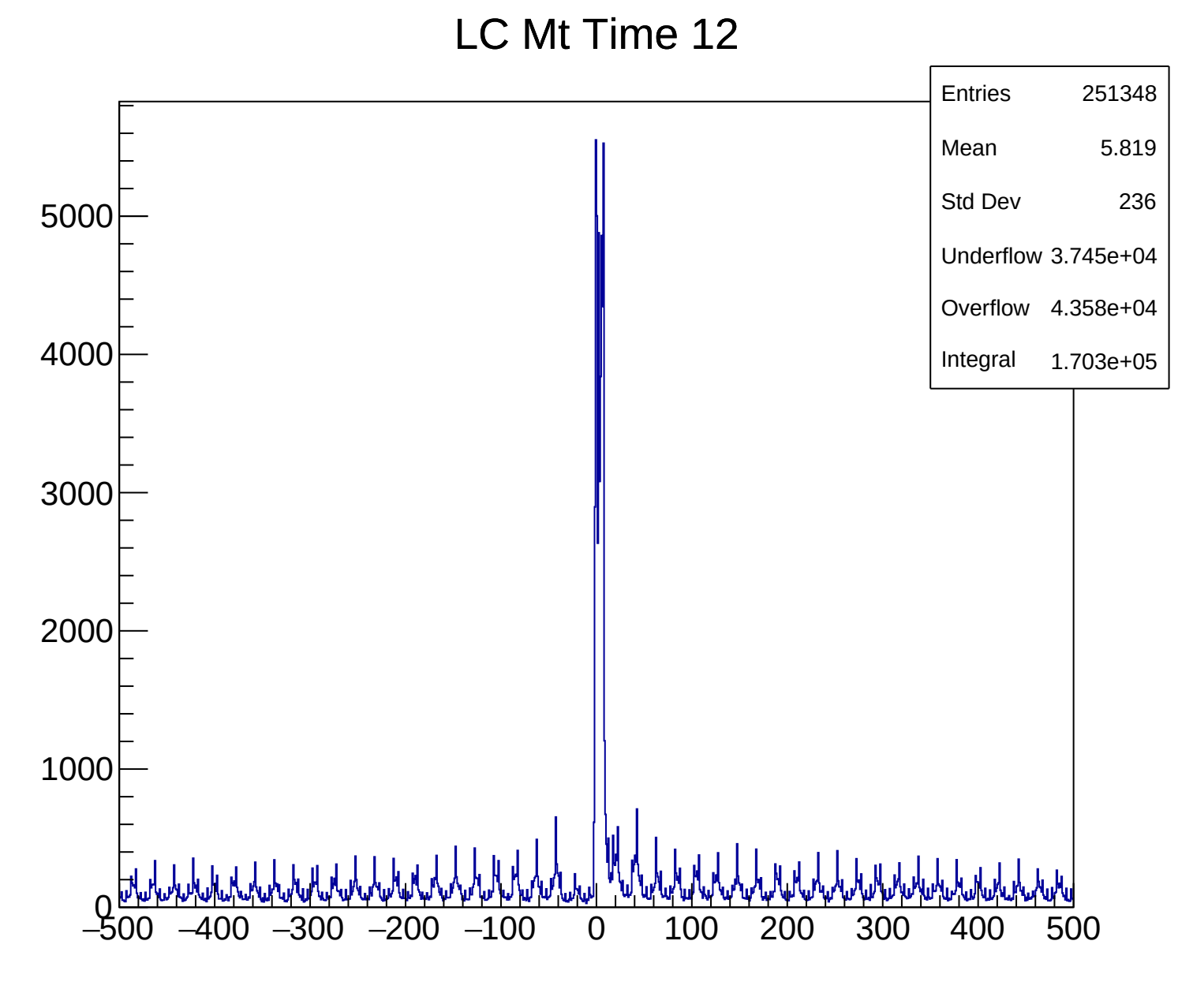
LC Mt Time 12
Entries 251348
Mean 5.819
Std Dev 236
Underflow 3.745e+04
Overflow 4.358e+04
Integral 1.703e+05
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3000
2000
1000
0
–500
–400
–300
–200
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200
300
400
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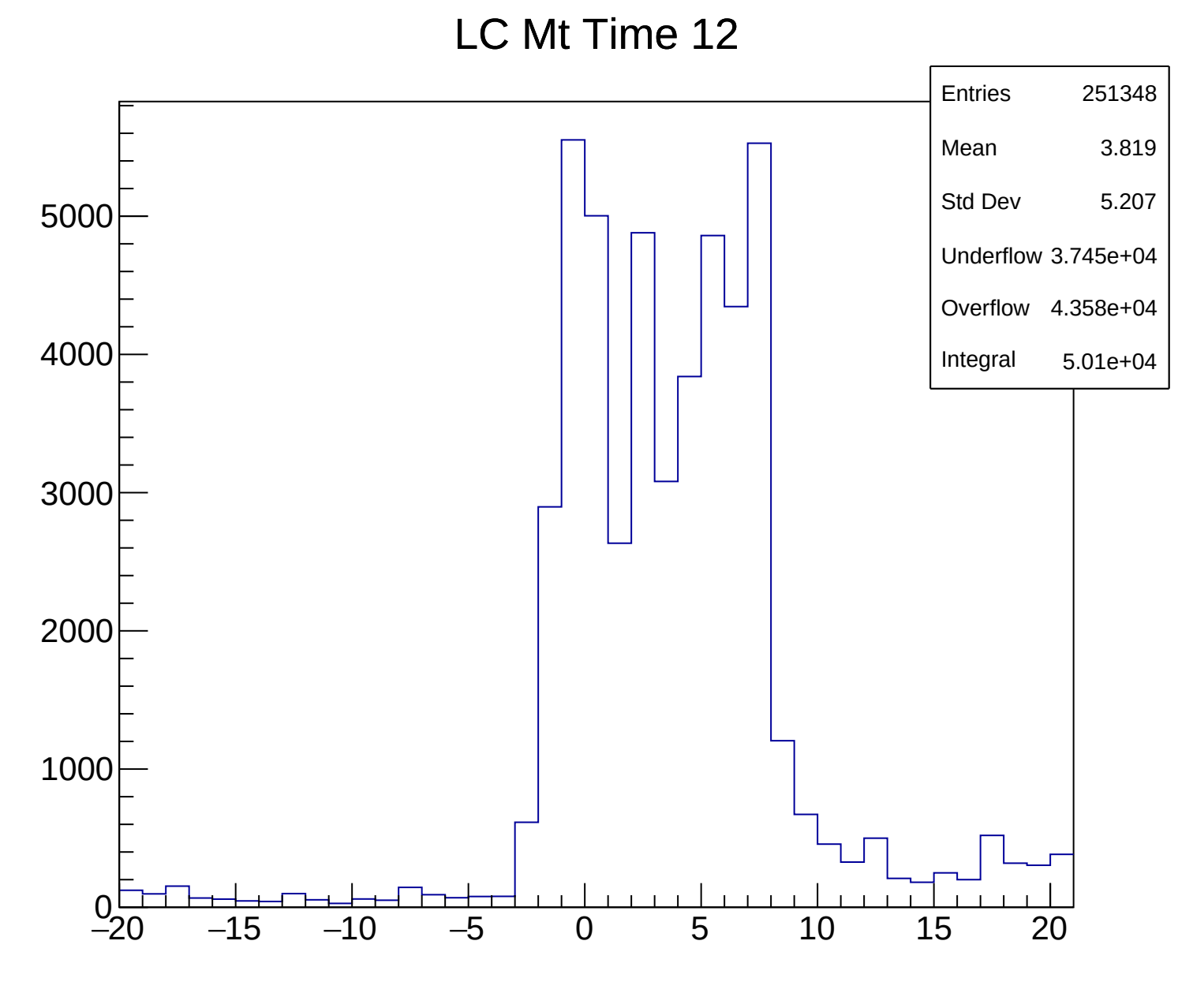
LC Mt Time 12
Entries 251348
Mean 3.819
Std Dev 5.207
Underflow 3.745e+04
Overflow 4.358e+04
Integral 5.01e+04
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3000
2000
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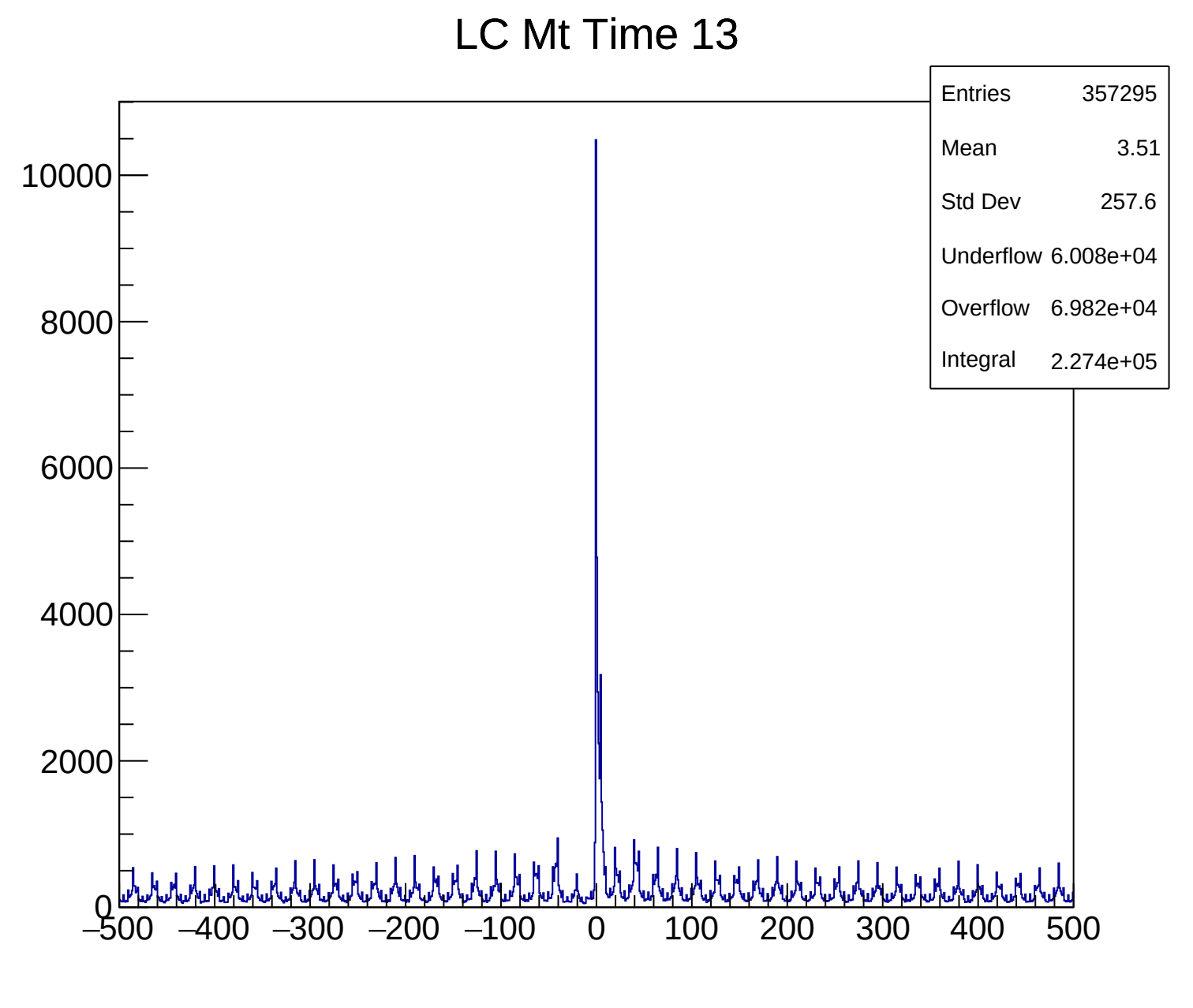
LC Mt Time 13
Entries 357295
Mean 3.51
Std Dev 257.6
Underflow 6.008e+04
Overflow 6.982e+04
Integral 2.274e+05
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4000
2000
0
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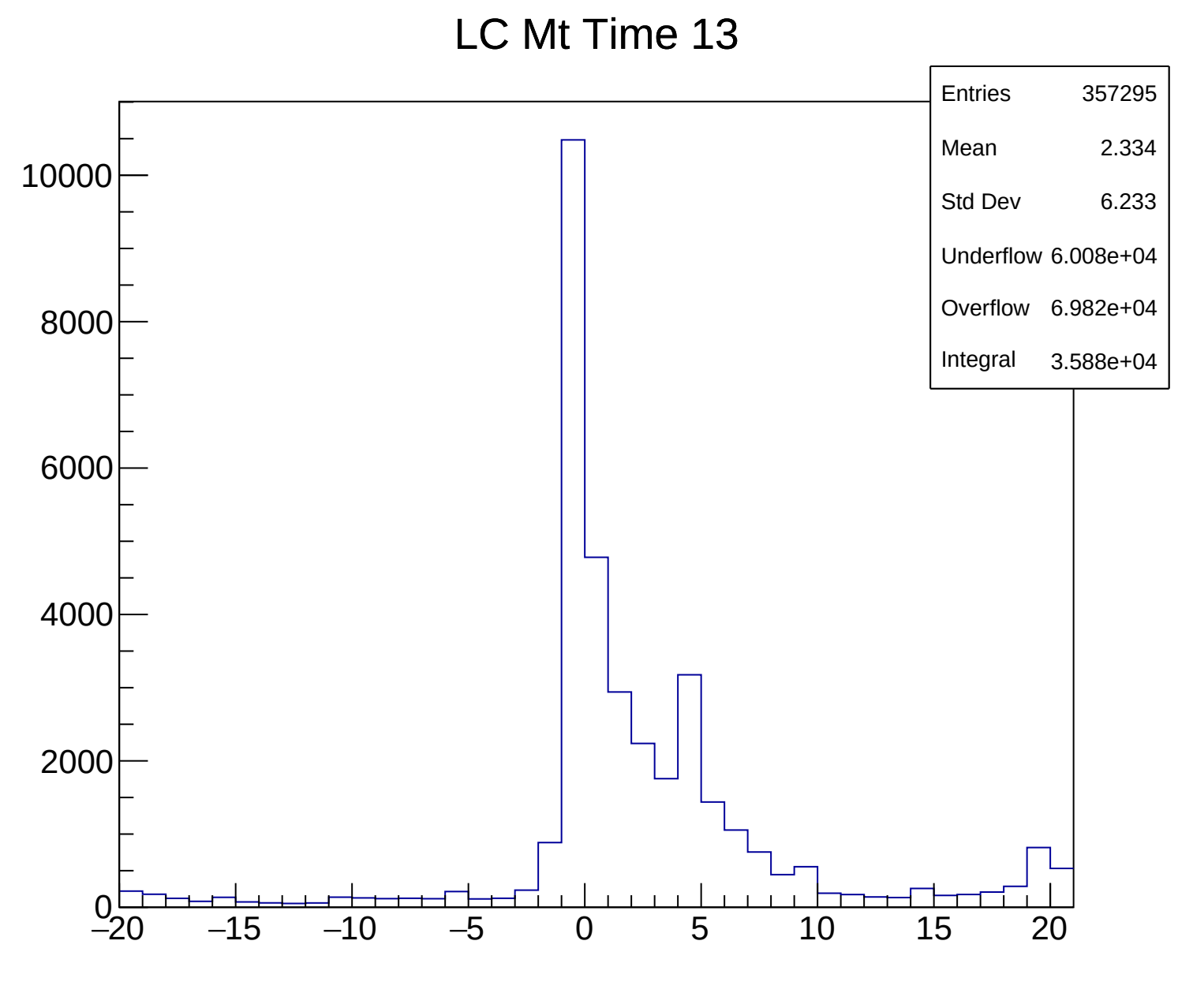
LC Mt Time 13
Entries 357295
Mean 2.334
Std Dev 6.233
Underflow 6.008e+04
Overflow 6.982e+04
Integral 3.588e+04
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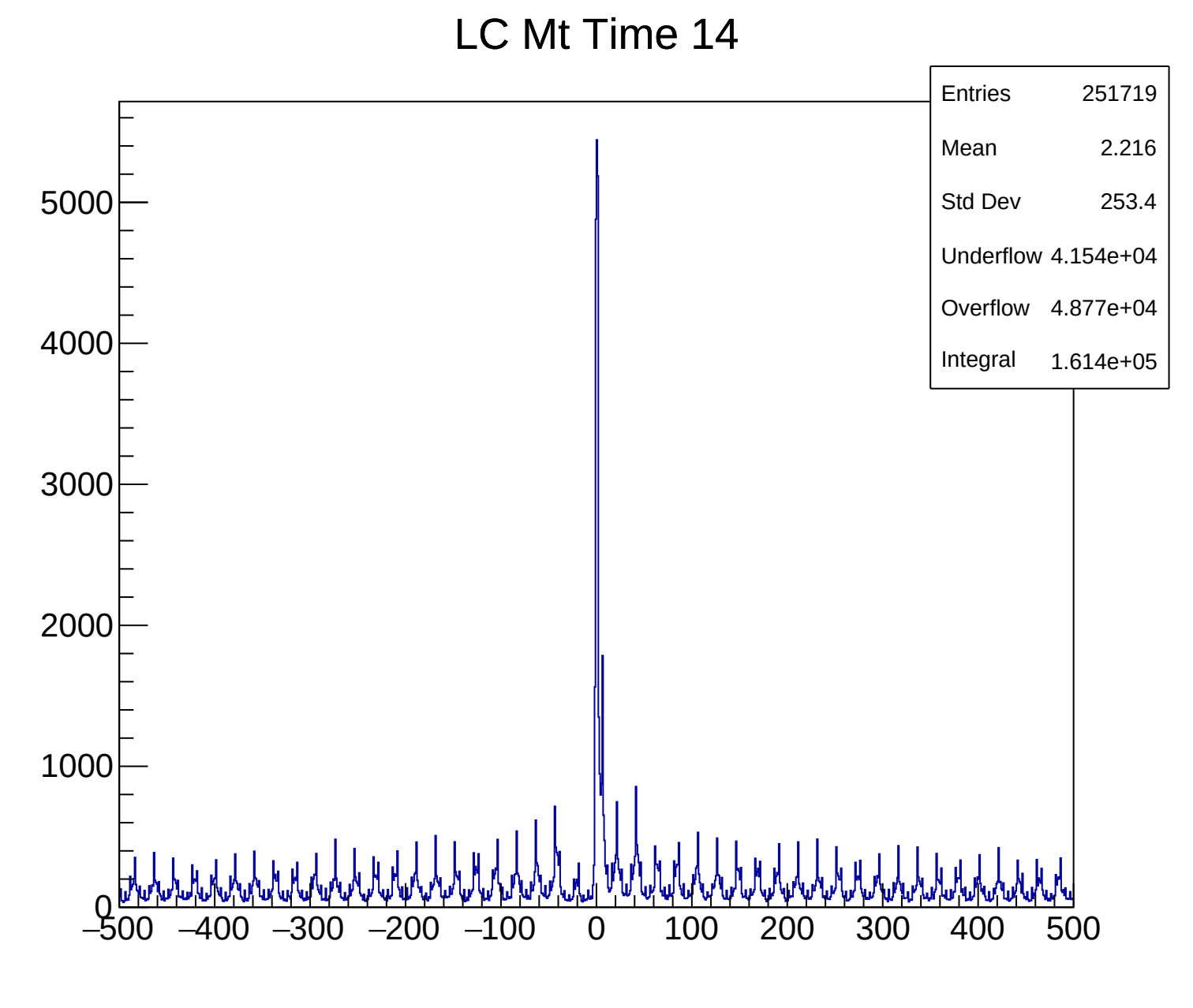
LC Mt Time 14
Entries 251719
Mean 2.216
Std Dev 253.4
Underflow 4.154e+04
Overflow 4.877e+04
Integral 1.614e+05
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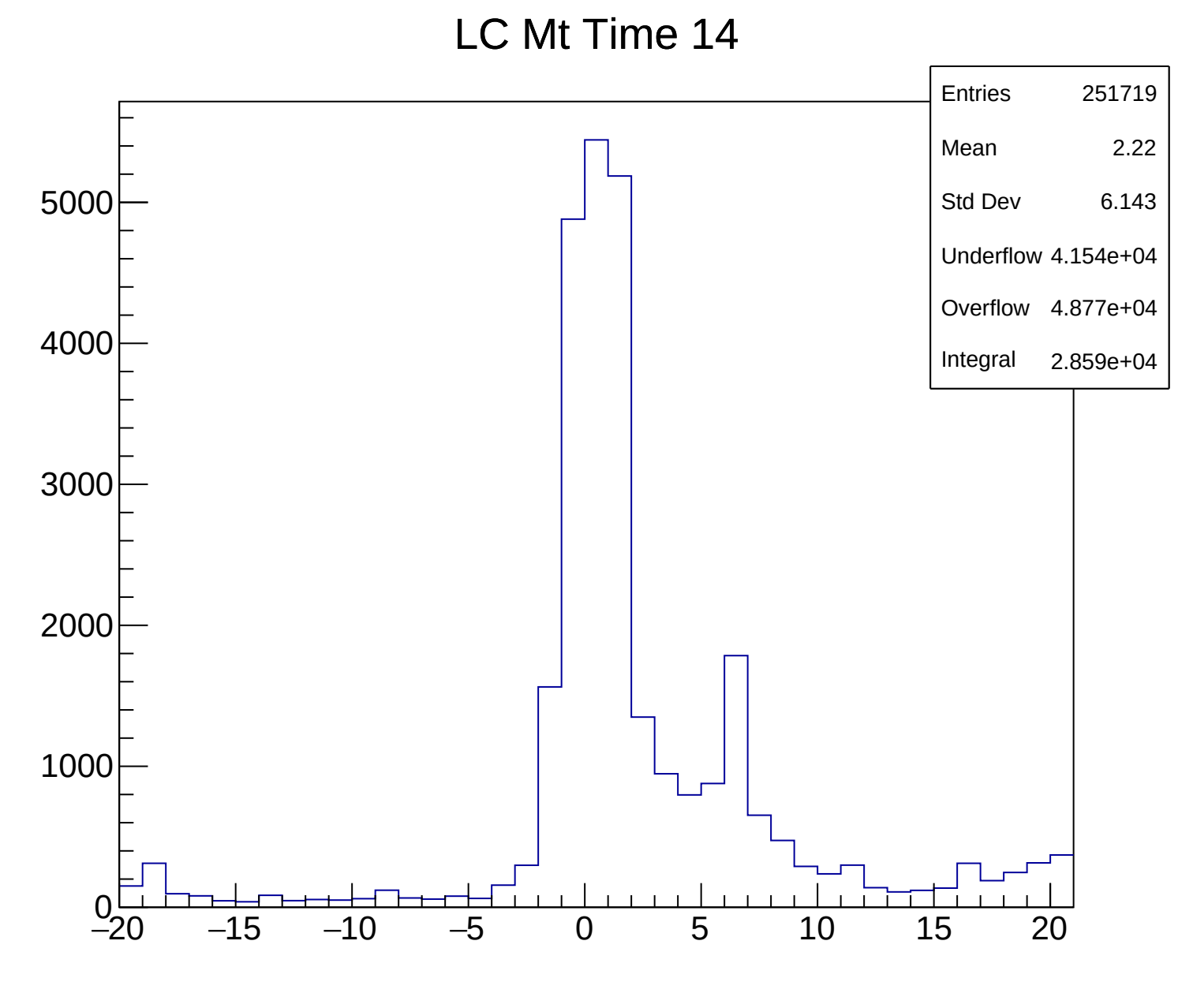
LC Mt Time 14
Entries 251719
Mean 2.22
Std Dev 6.143
Underflow 4.154e+04
Overflow 4.877e+04
Integral 2.859e+04
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15
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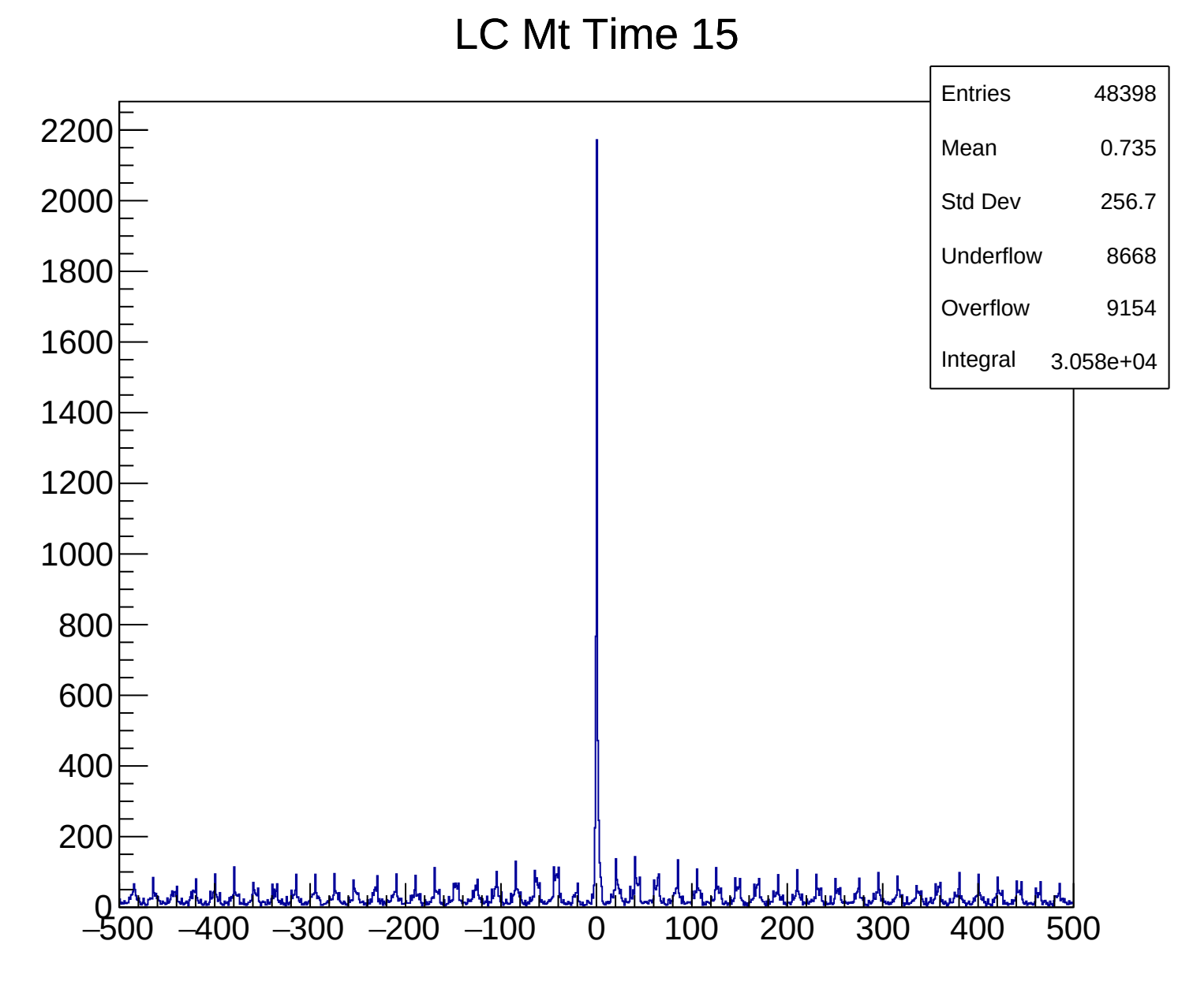
LC Mt Time 15
Entries 48398
Mean 0.735
Std Dev 256.7
Underflow 8668
Overflow 9154
Integral 3.058e+04
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2000
1800
1600
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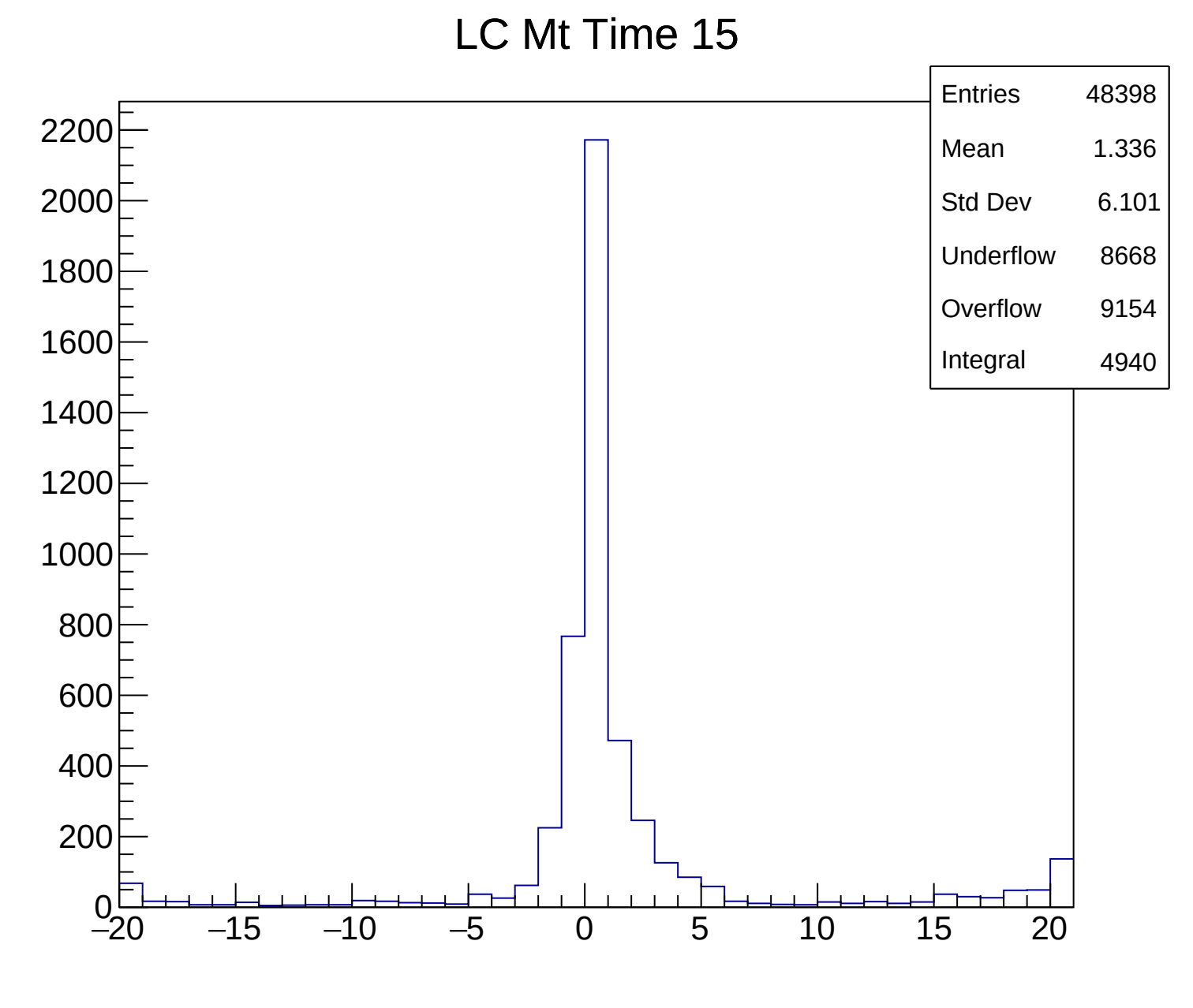
LC Mt Time 15
Entries 48398
Mean 1.336
Std Dev 6.101
Underflow 8668
Overflow 9154
Integral 4940
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600
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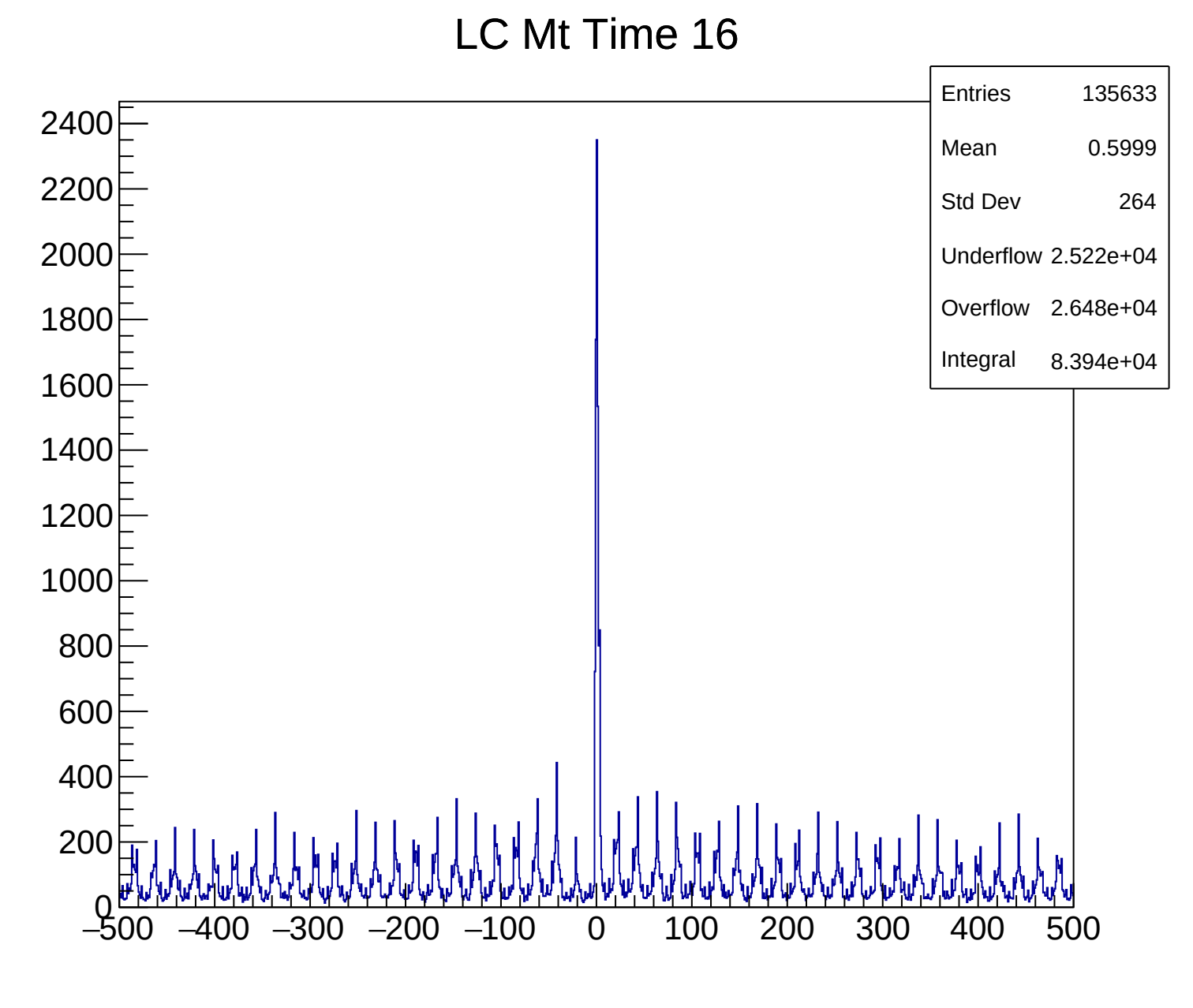
LC Mt Time 16
Entries 135633
Mean 0.5999
Std Dev 264
Underflow 2.522e+04
Overflow 2.648e+04
Integral 8.394e+04
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2200
2000
1800
1600
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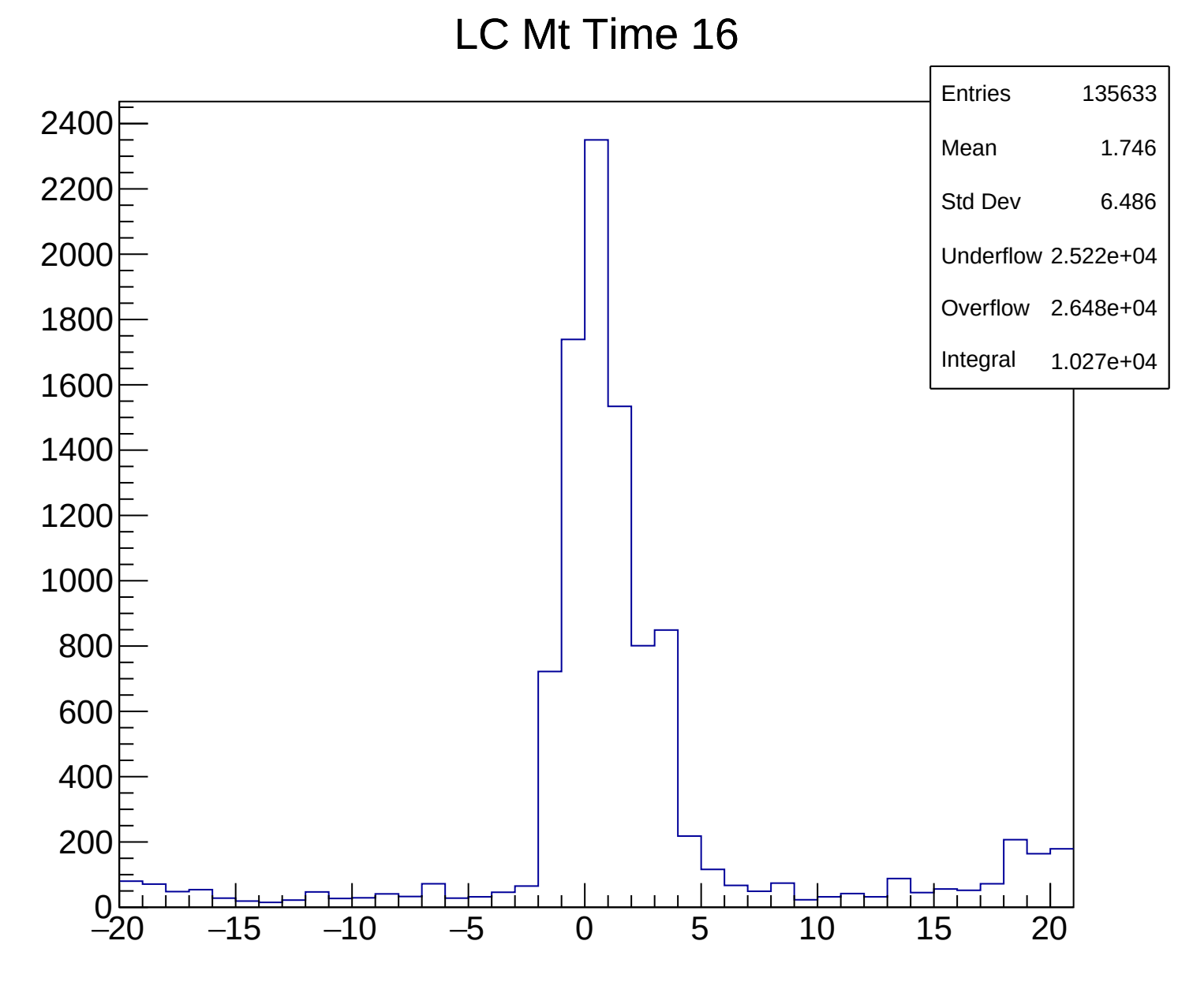
LC Mt Time 16
Entries 135633
Mean 1.746
Std Dev 6.486
Underflow 2.522e+04
Overflow 2.648e+04
Integral 1.027e+04
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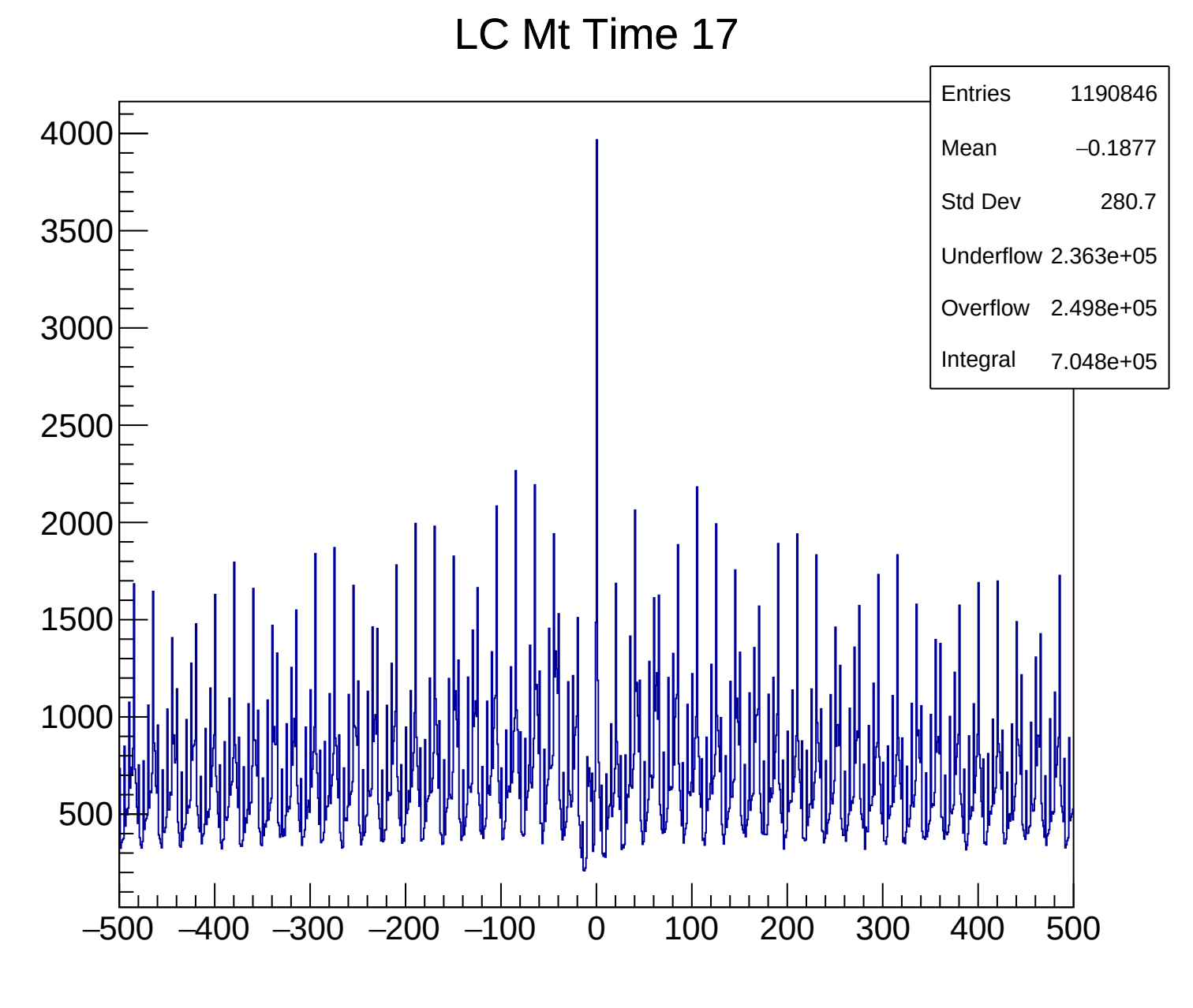
LC Mt Time 17
Entries 1190846
Mean –0.1877
Std Dev 280.7
Underflow 2.363e+05
Overflow 2.498e+05
Integral 7.048e+05
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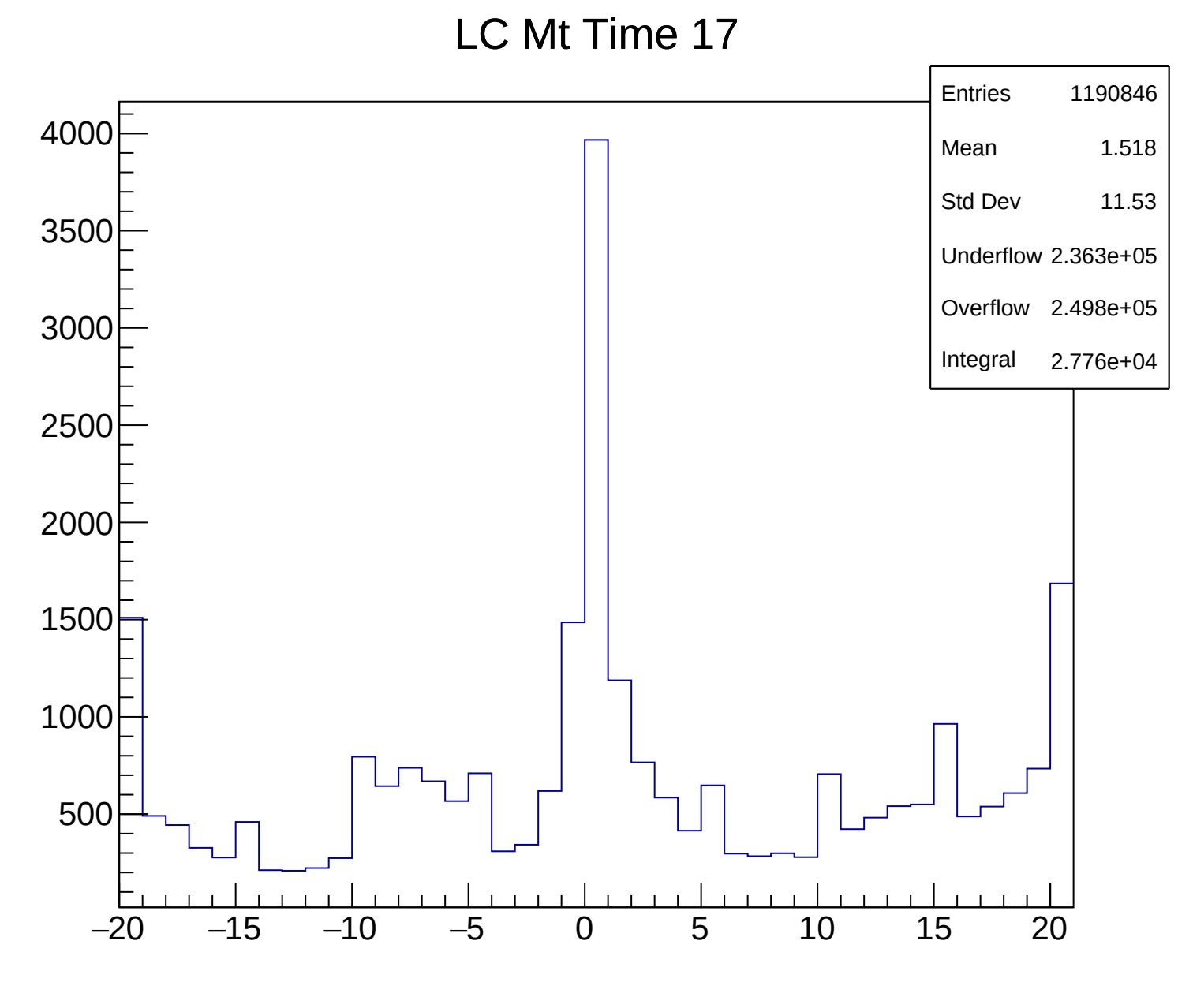
LC Mt Time 17
Entries 1190846
Mean 1.518
Std Dev 11.53
Underflow 2.363e+05
Overflow 2.498e+05
Integral 2.776e+04
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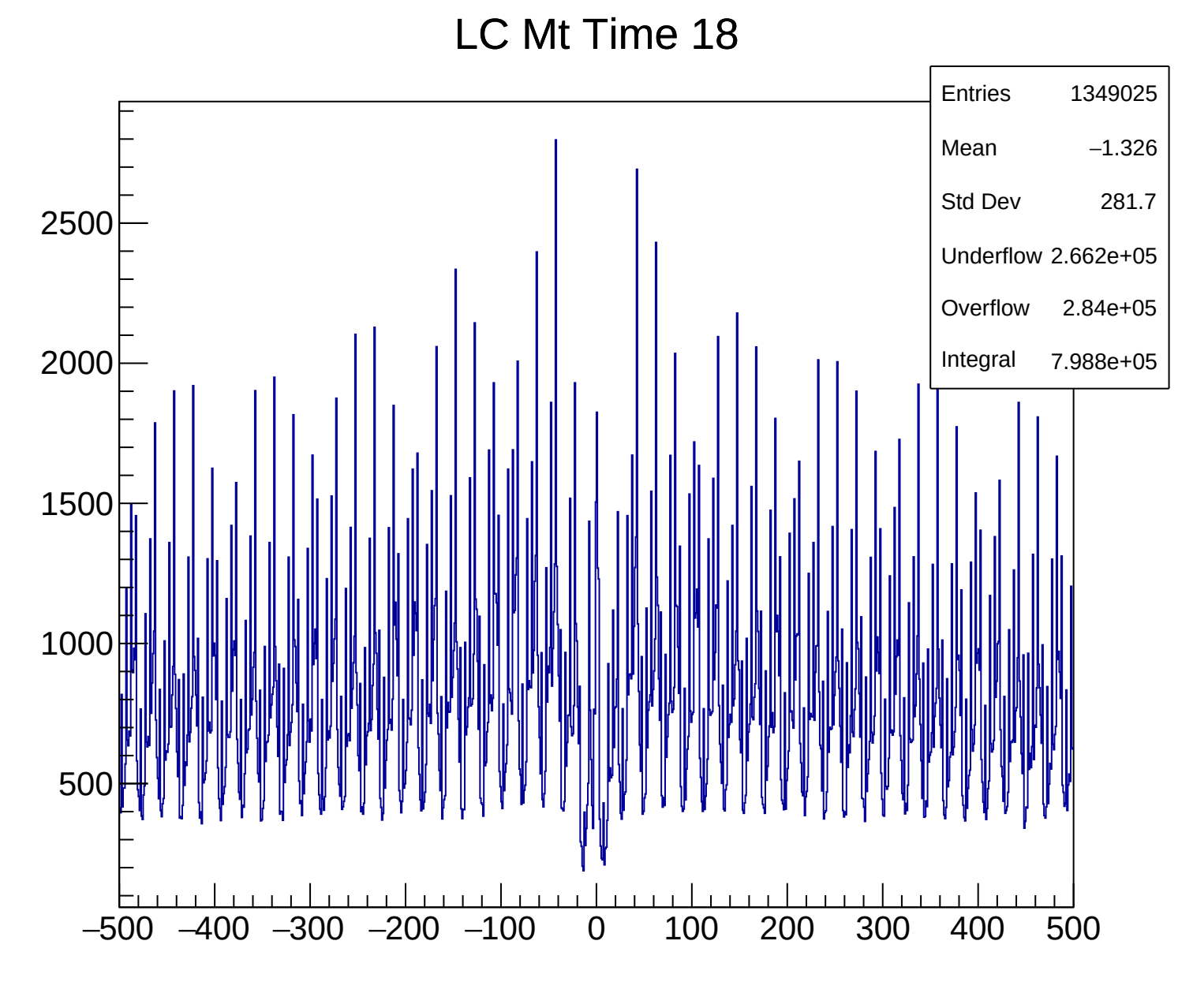
LC Mt Time 18
Entries 1349025
Mean –1.326
Std Dev 281.7
Underflow 2.662e+05
Overflow 2.84e+05
Integral 7.988e+05
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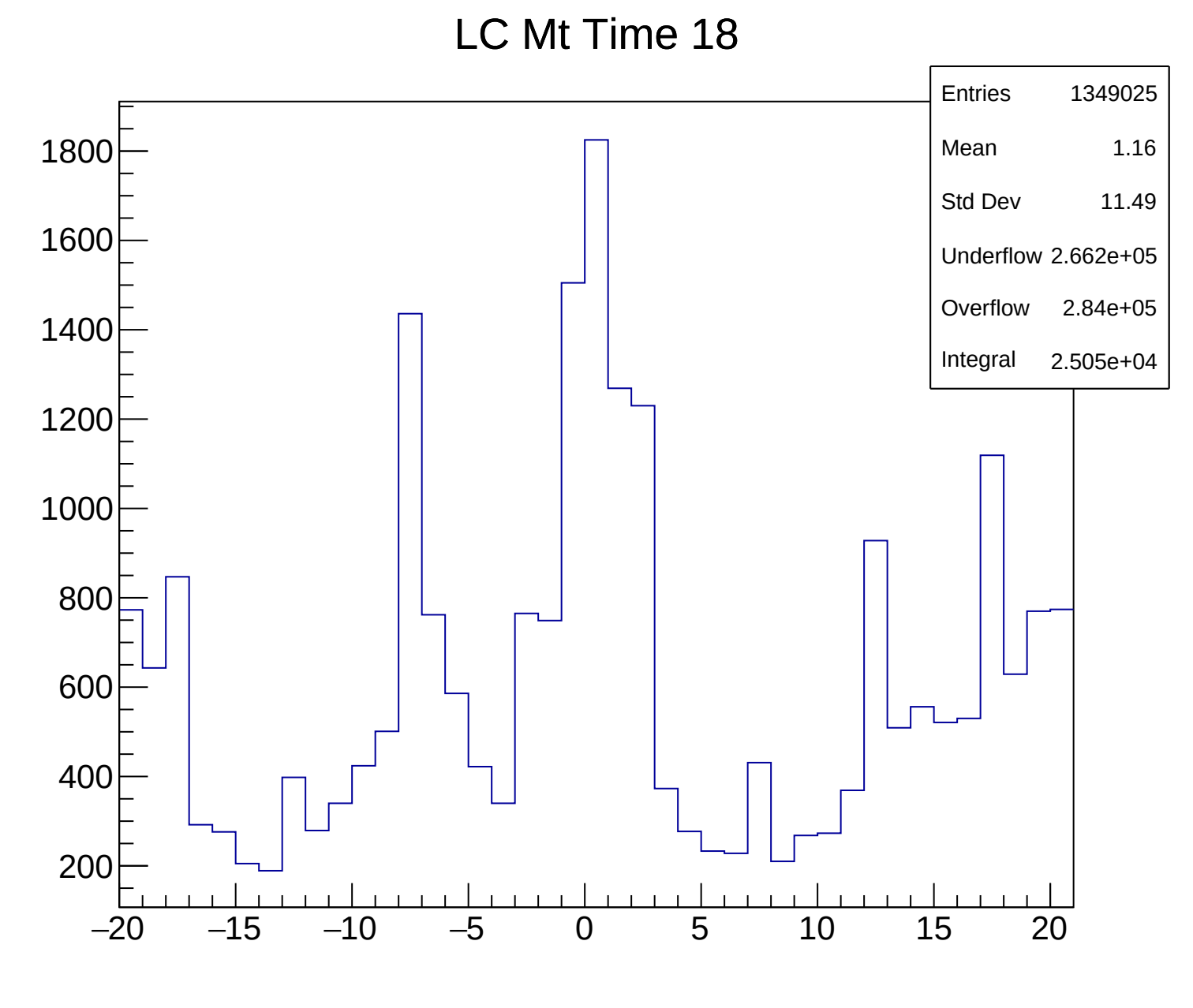
LC Mt Time 18
Entries 1349025
Mean 1.16
Std Dev 11.49
Underflow 2.662e+05
Overflow 2.84e+05
Integral 2.505e+04
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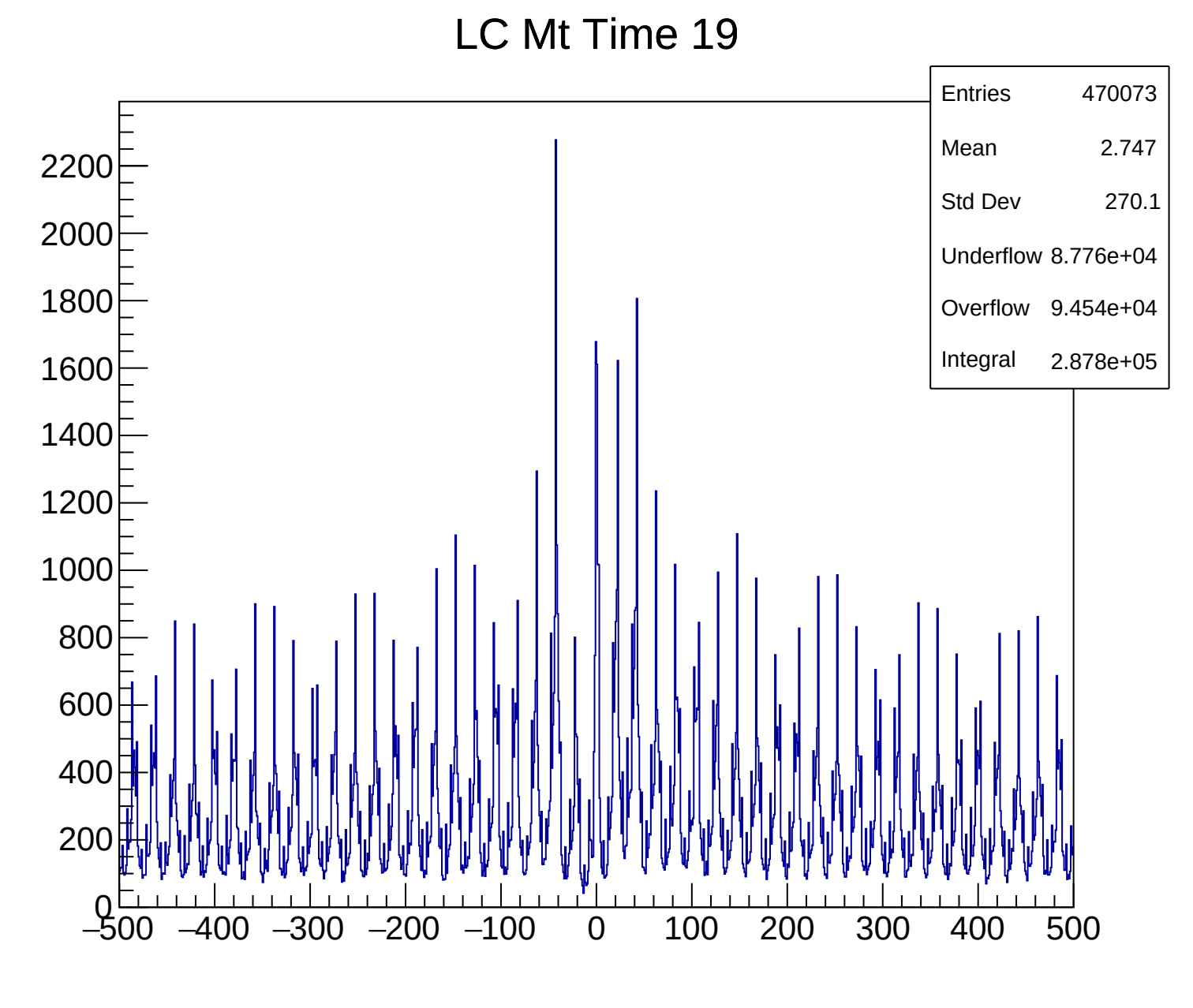
LC Mt Time 19
Entries 470073
Mean 2.747
Std Dev 270.1
Underflow 8.776e+04
Overflow 9.454e+04
Integral 2.878e+05
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1400
1200
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–300
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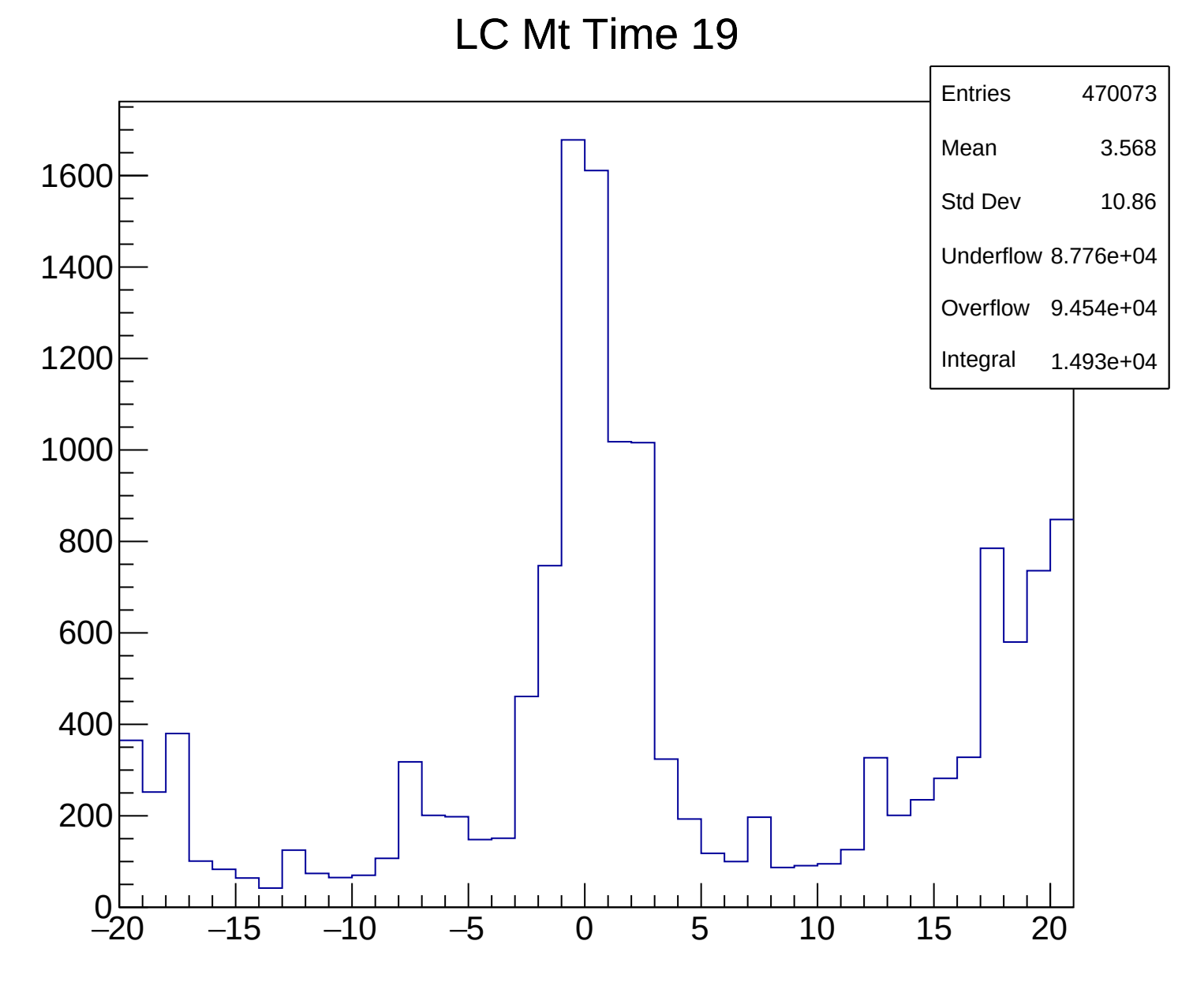
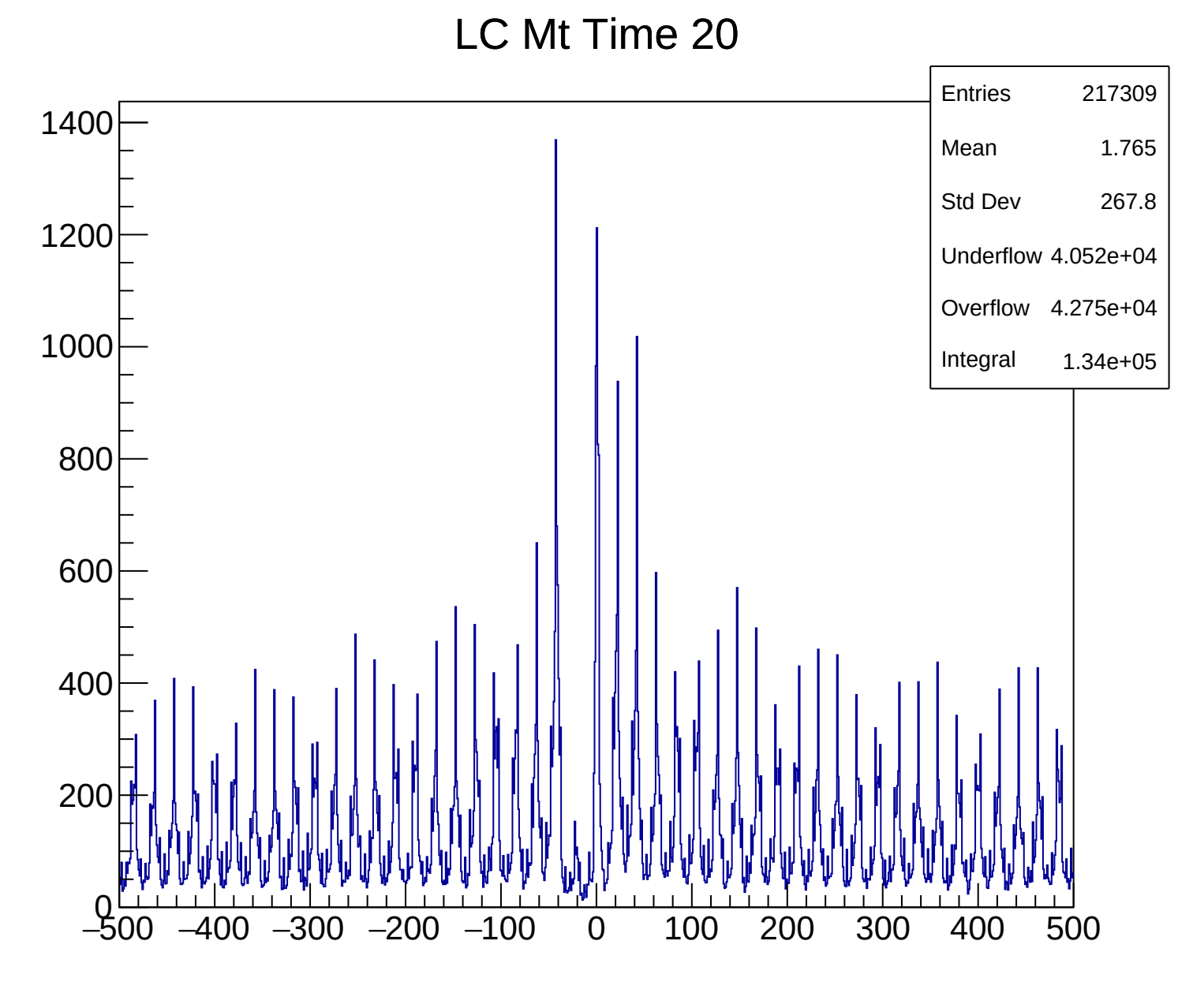
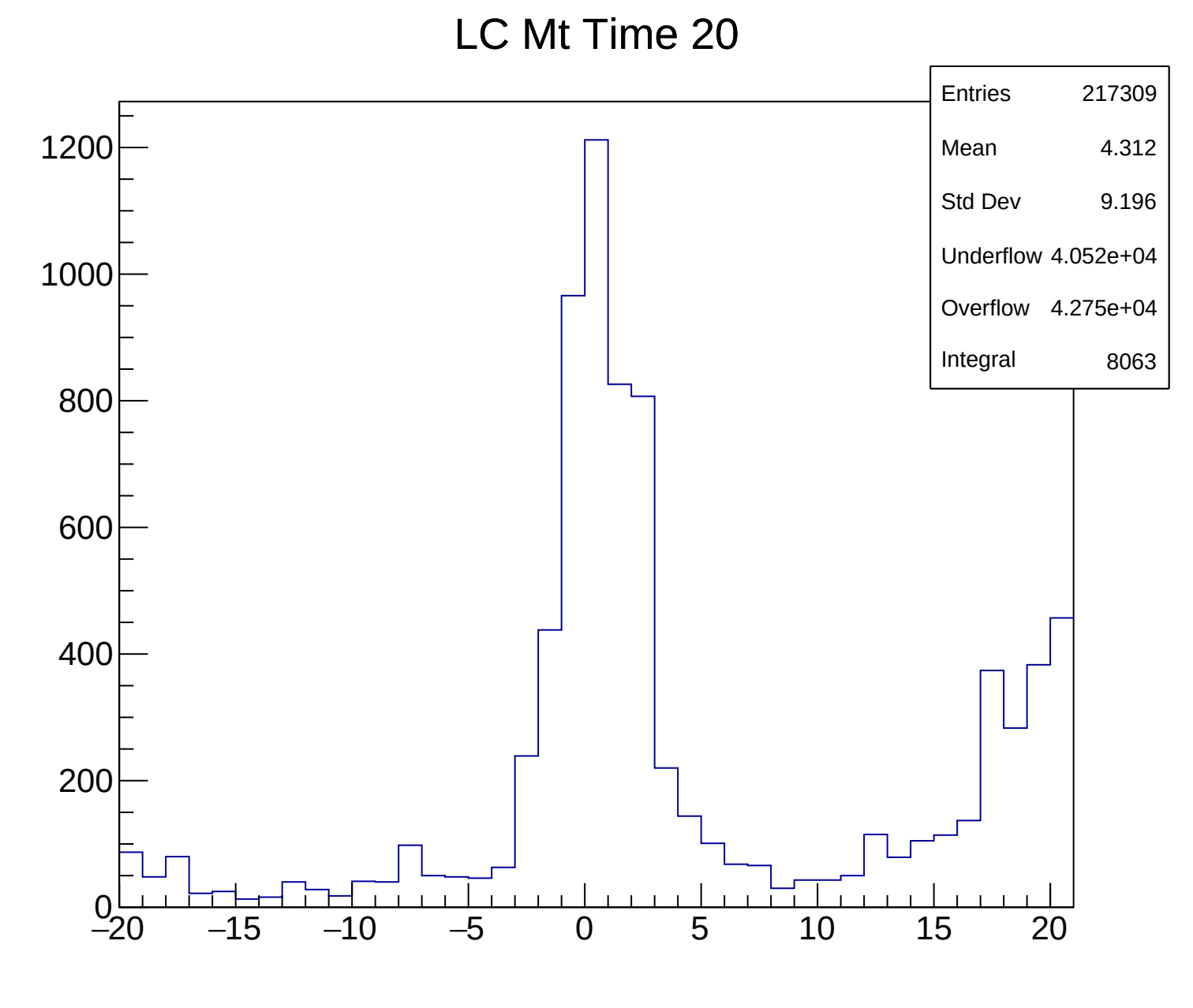
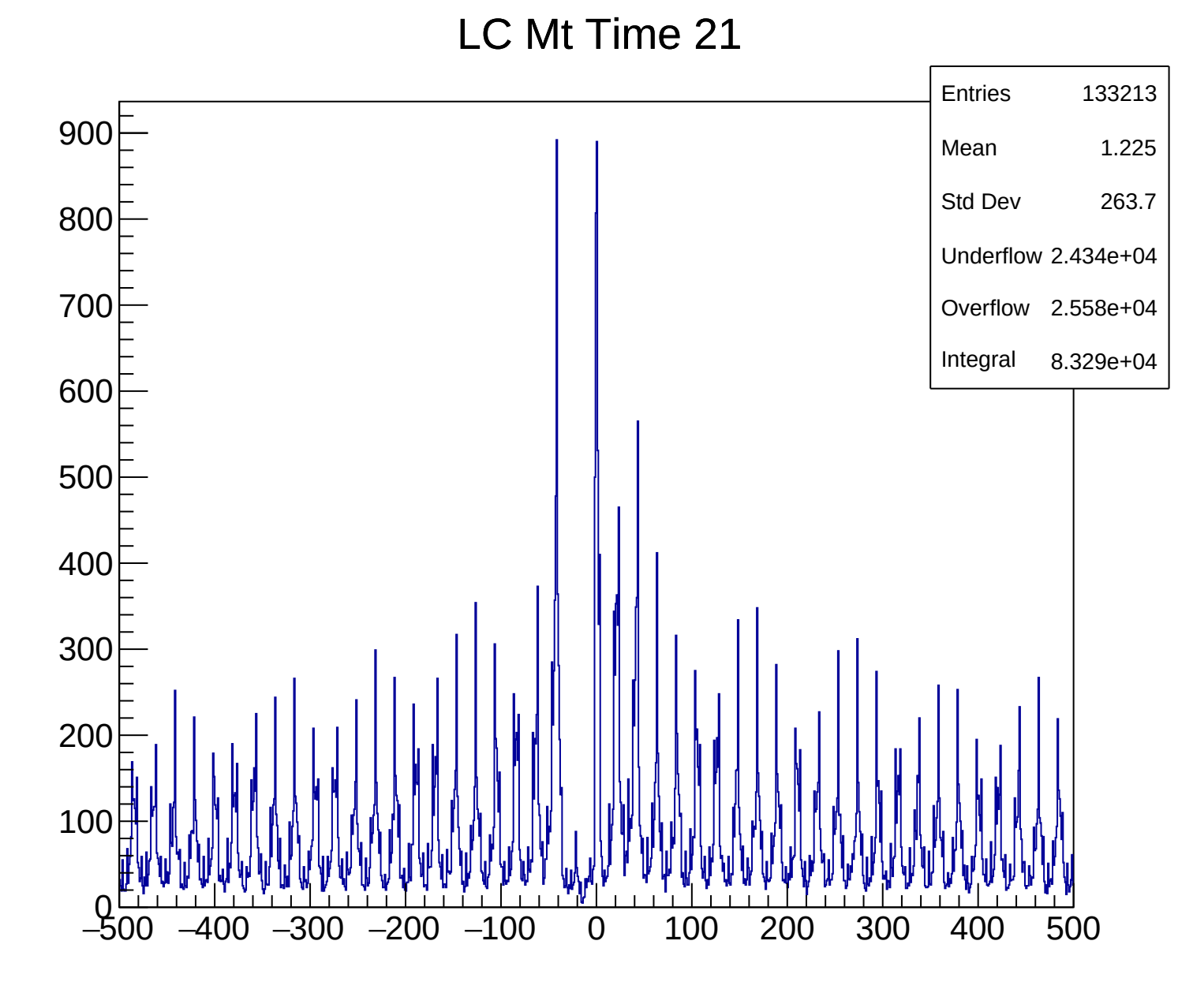
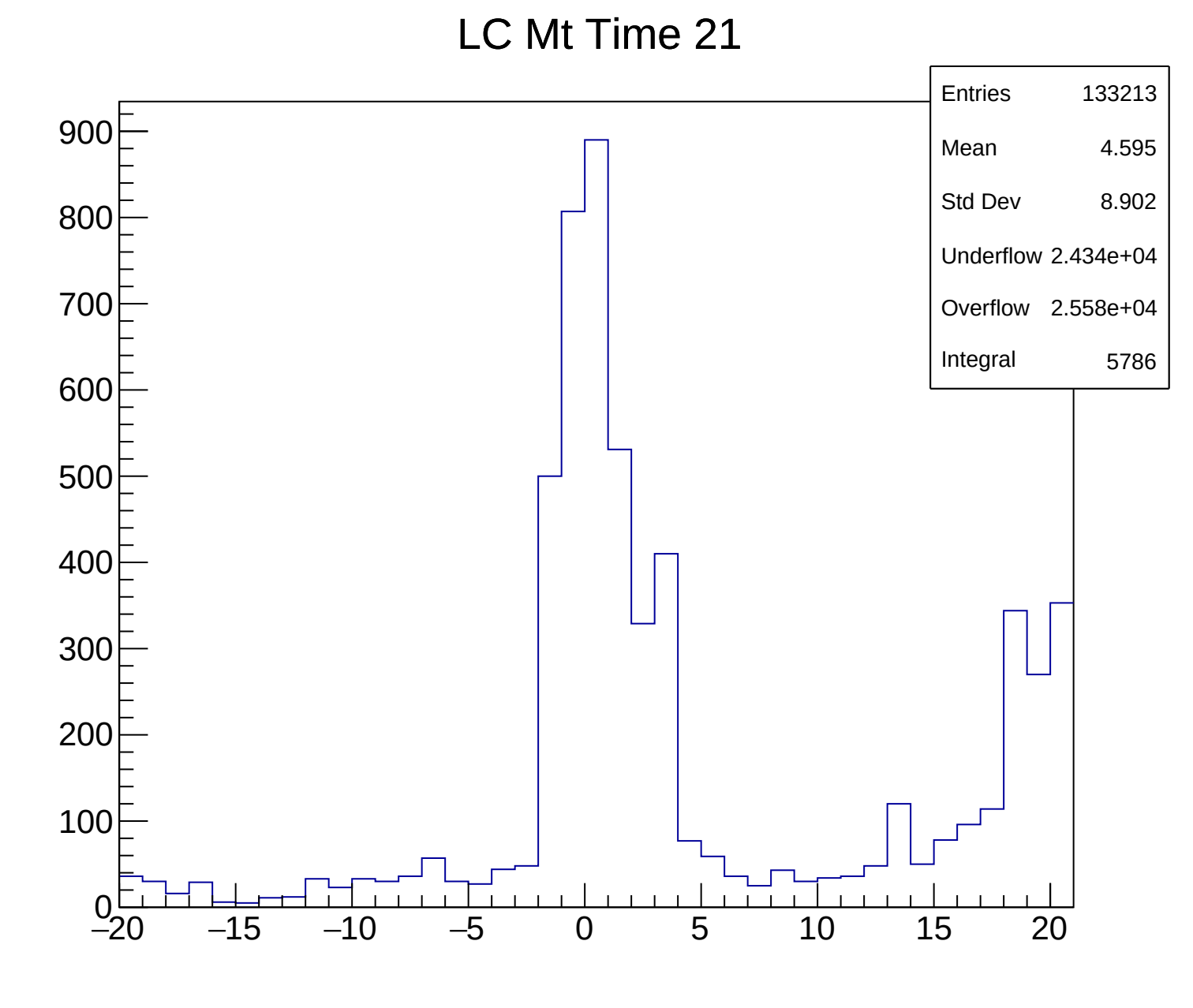
300
400
500


LC Mt Time 19
Entries 470073
Mean 3.568
Std Dev 10.86
Underflow 8.776e+04
Overflow 9.454e+04
Integral 1.493e+04
1600
1400
1200
1000
800
600
400
200
0
–20
–15
–10
–5
0
5
10
15
20


LC Mt Time 20
Entries 217309
Mean 1.765
Std Dev 267.8
Underflow 4.052e+04
Overflow 4.275e+04
Integral 1.34e+05
1400
1200
1000
800
600
400
200
0
–500
–400
–300
–200
–100
0
100
200
300
400
500


LC Mt Time 20
Entries 217309
Mean 4.312
Std Dev 9.196
Underflow 4.052e+04
Overflow 4.275e+04
Integral 8063
1200
1000
800
600
400
200
0
–20
–15
–10
–5
0
5
10
15
20


LC Mt Time 21
Entries 133213
Mean 1.225
Std Dev 263.7
Underflow 2.434e+04
Overflow 2.558e+04
Integral 8.329e+04
900
800
700
600
500
400
300
200
100
0
–500
–400
–300
–200
–100
0
100
200
300
400
500


LC Mt Time 21
Entries 133213
Mean 4.595
Std Dev 8.902
Underflow 2.434e+04
Overflow 2.558e+04
Integral 5786
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800
700
600
500
400
300
200
100
0
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–10
–5
0
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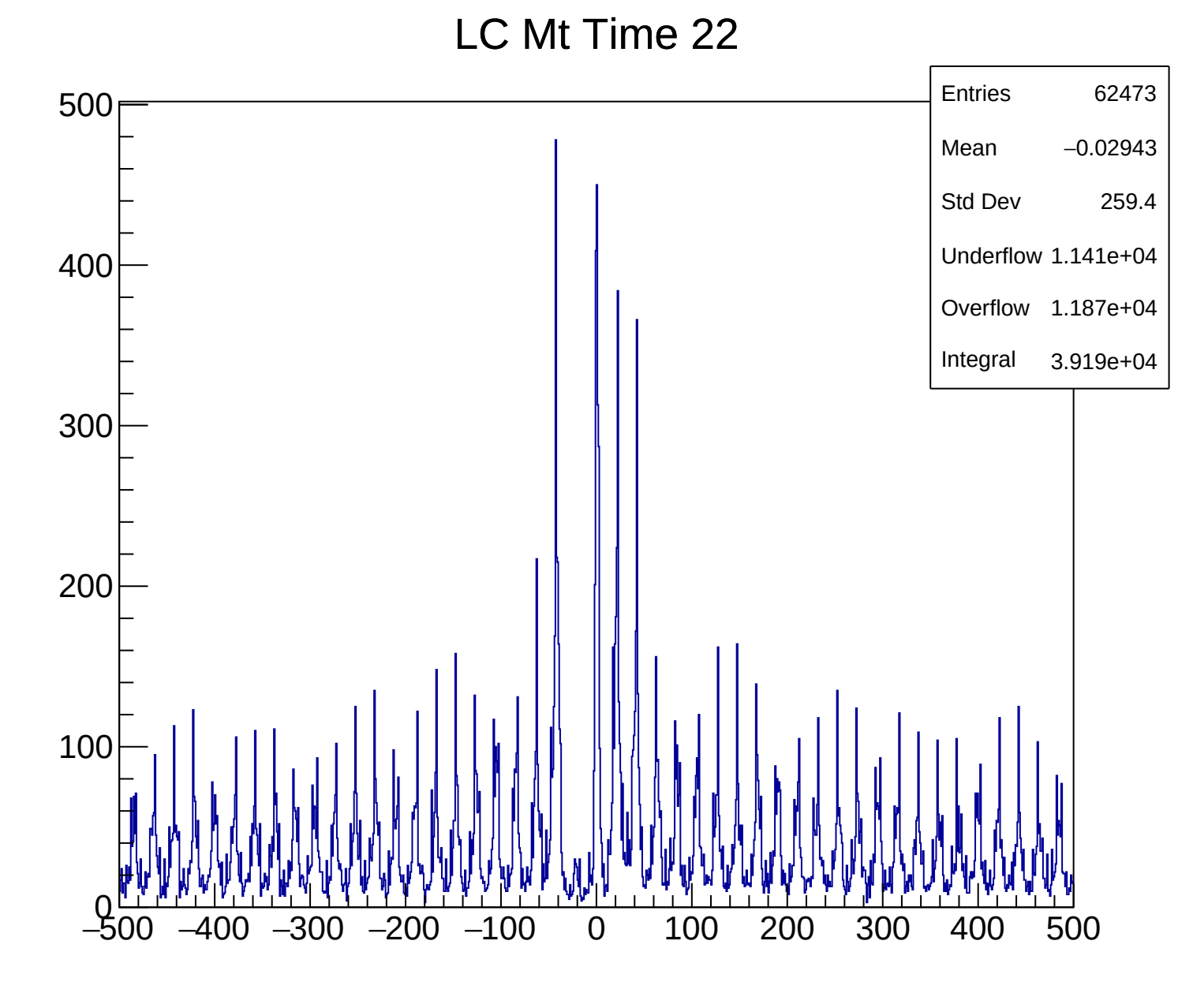
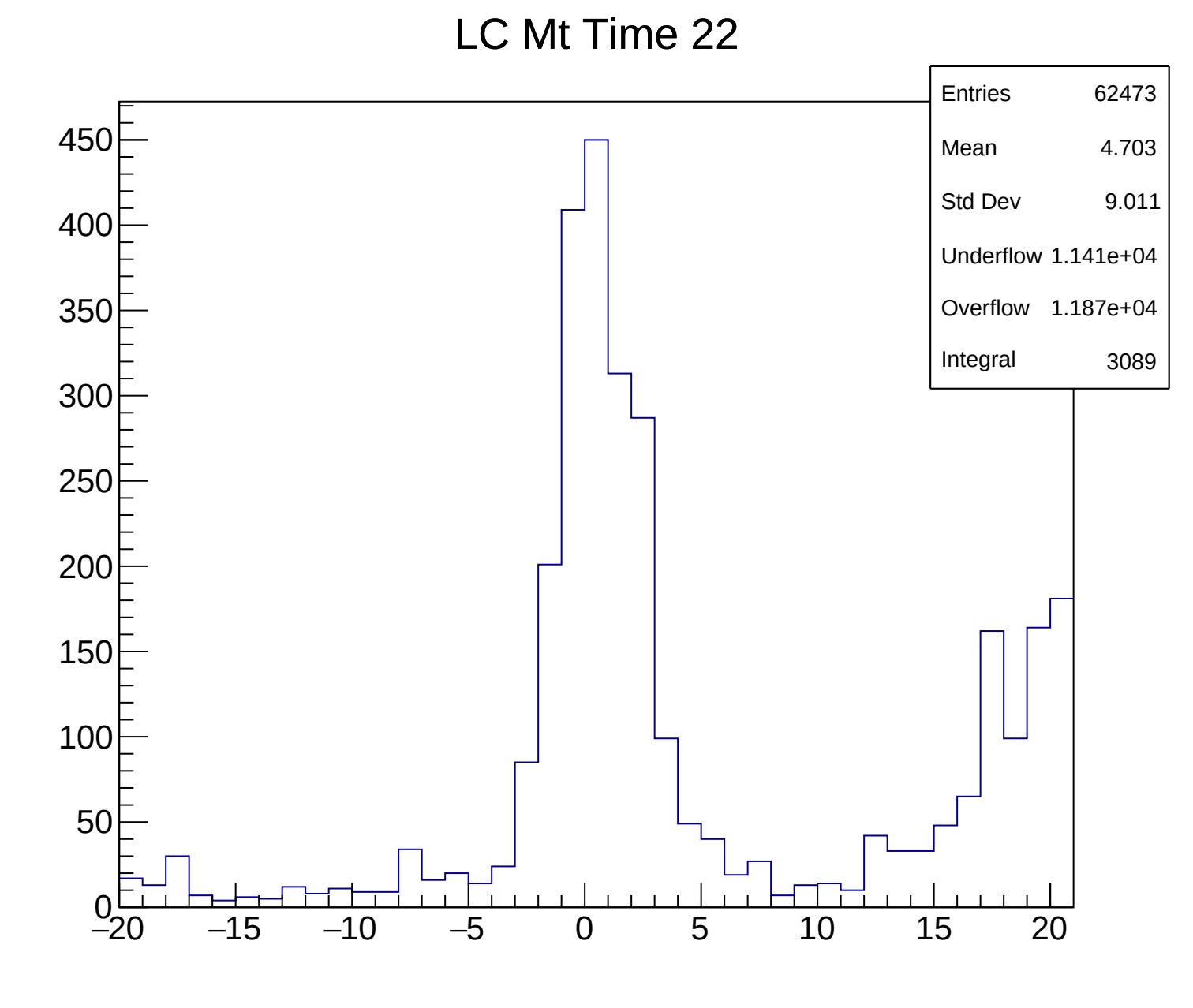
15
20


LC Mt Time 22
Entries 62473
Mean –0.02943
Std Dev 259.4
Underflow 1.141e+04
Overflow 1.187e+04
Integral 3.919e+04
500
400
300
200
100
0
–500
–400
–300
–200
–100
0
100
200
300
400
500


LC Mt Time 22
Entries 62473
Mean 4.703
Std Dev 9.011
Underflow 1.141e+04
Overflow 1.187e+04
Integral 3089
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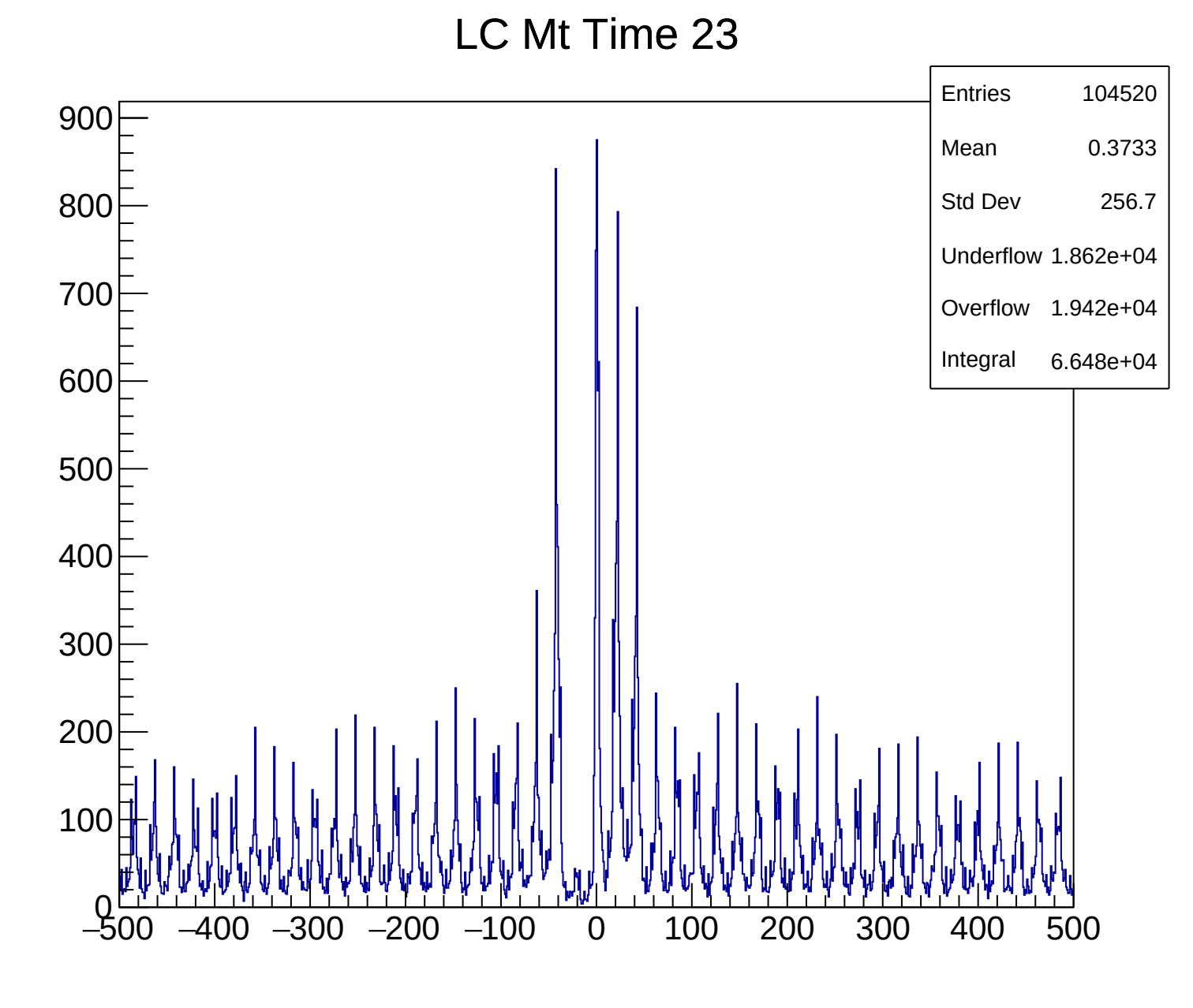
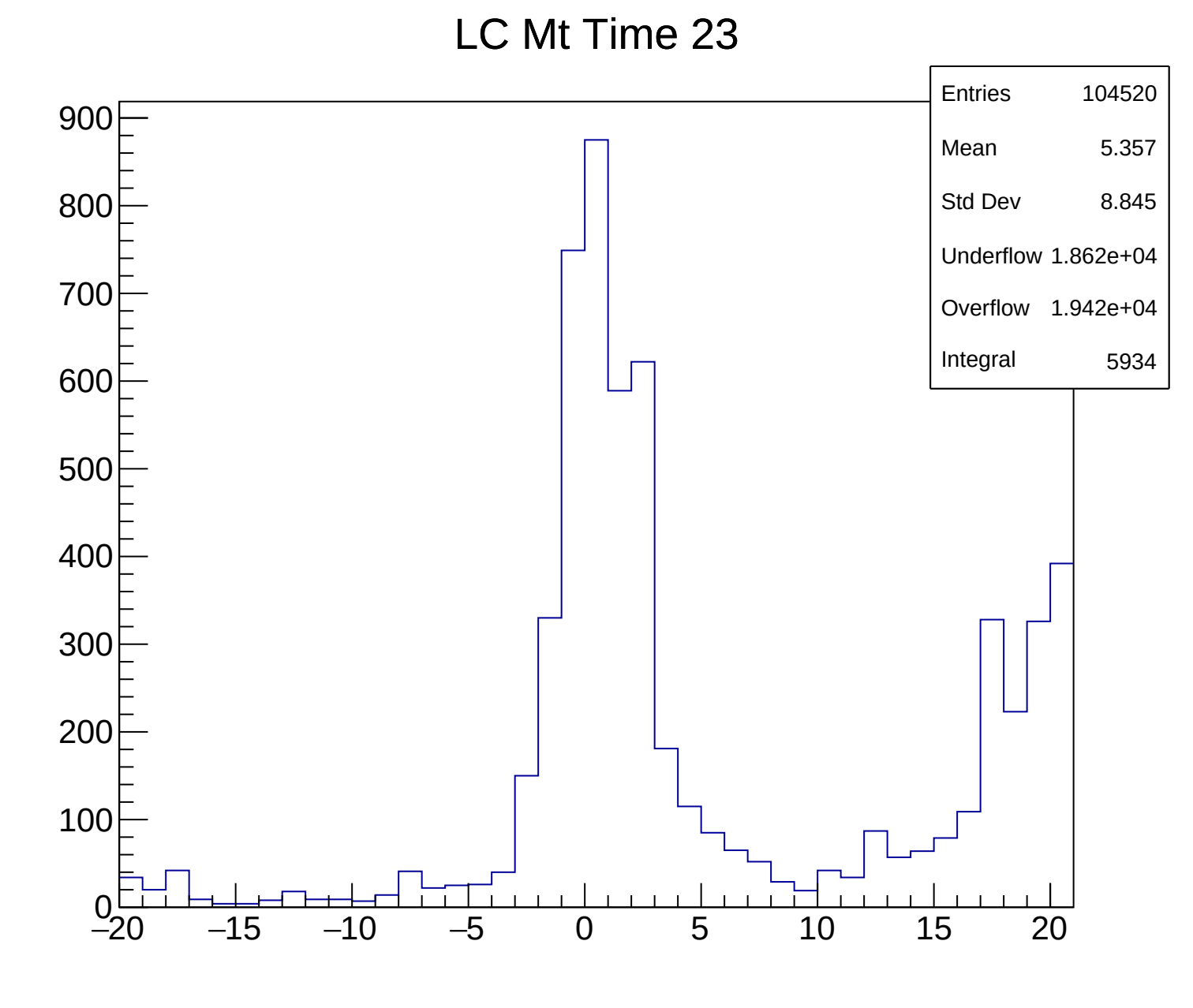
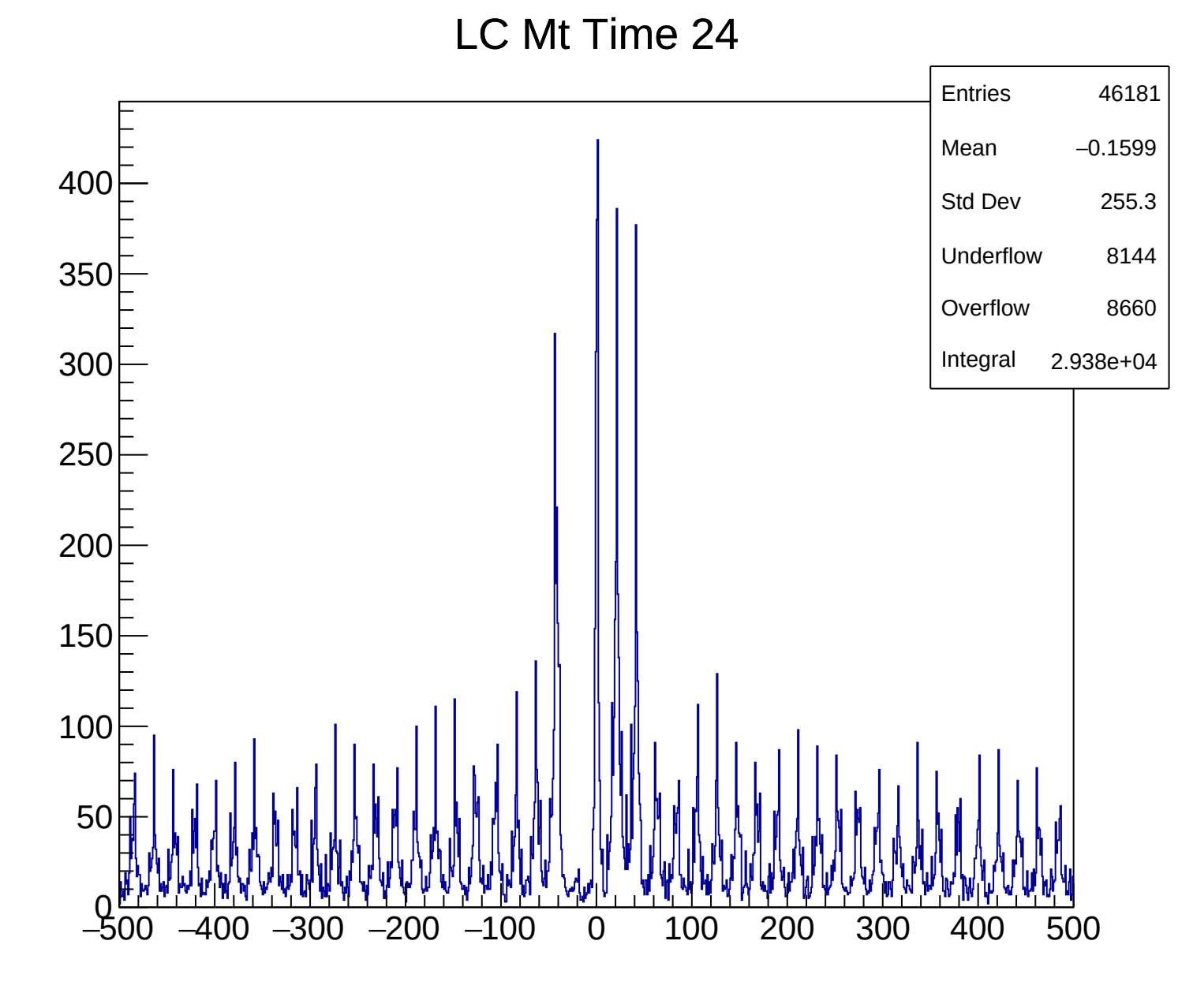
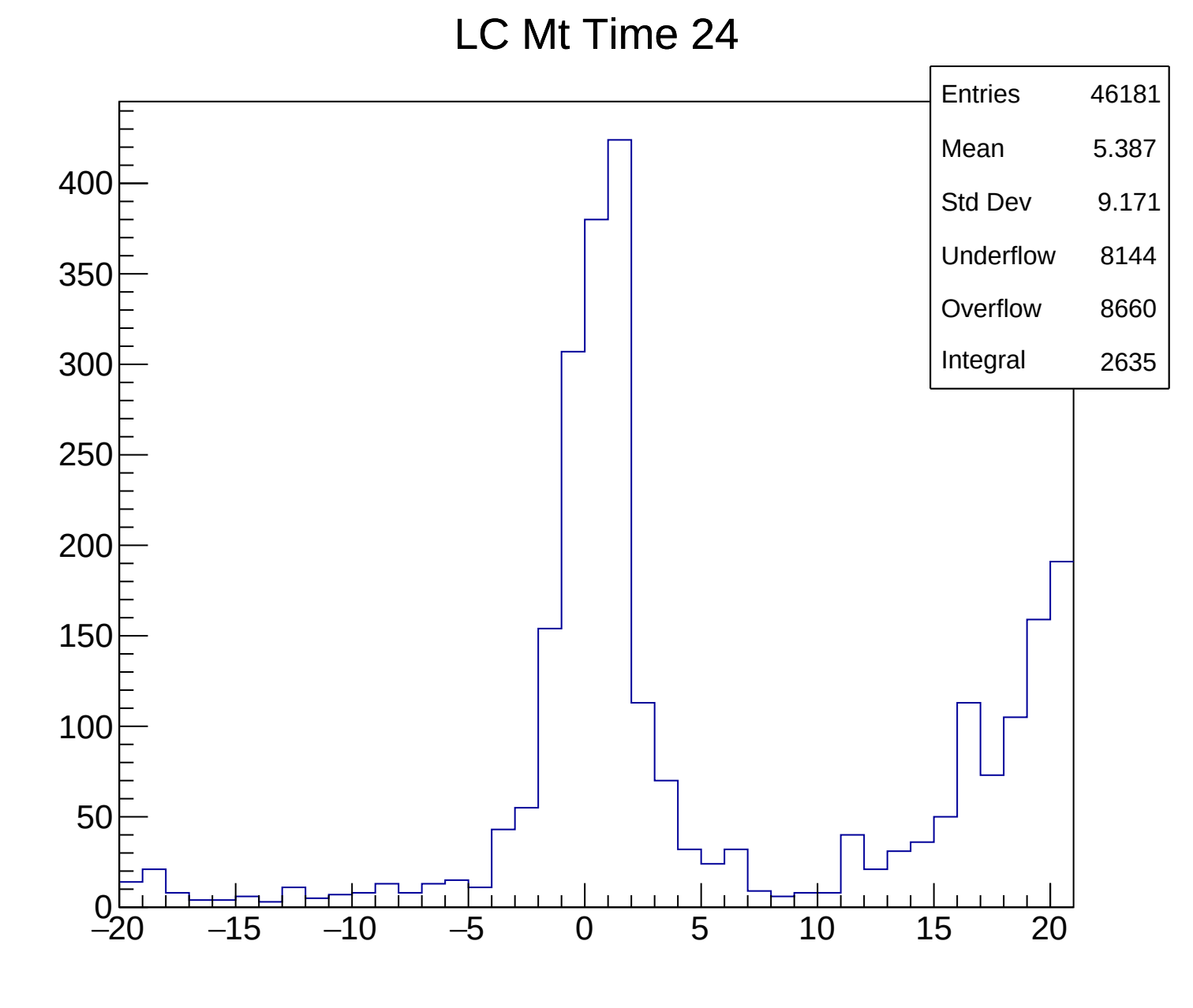
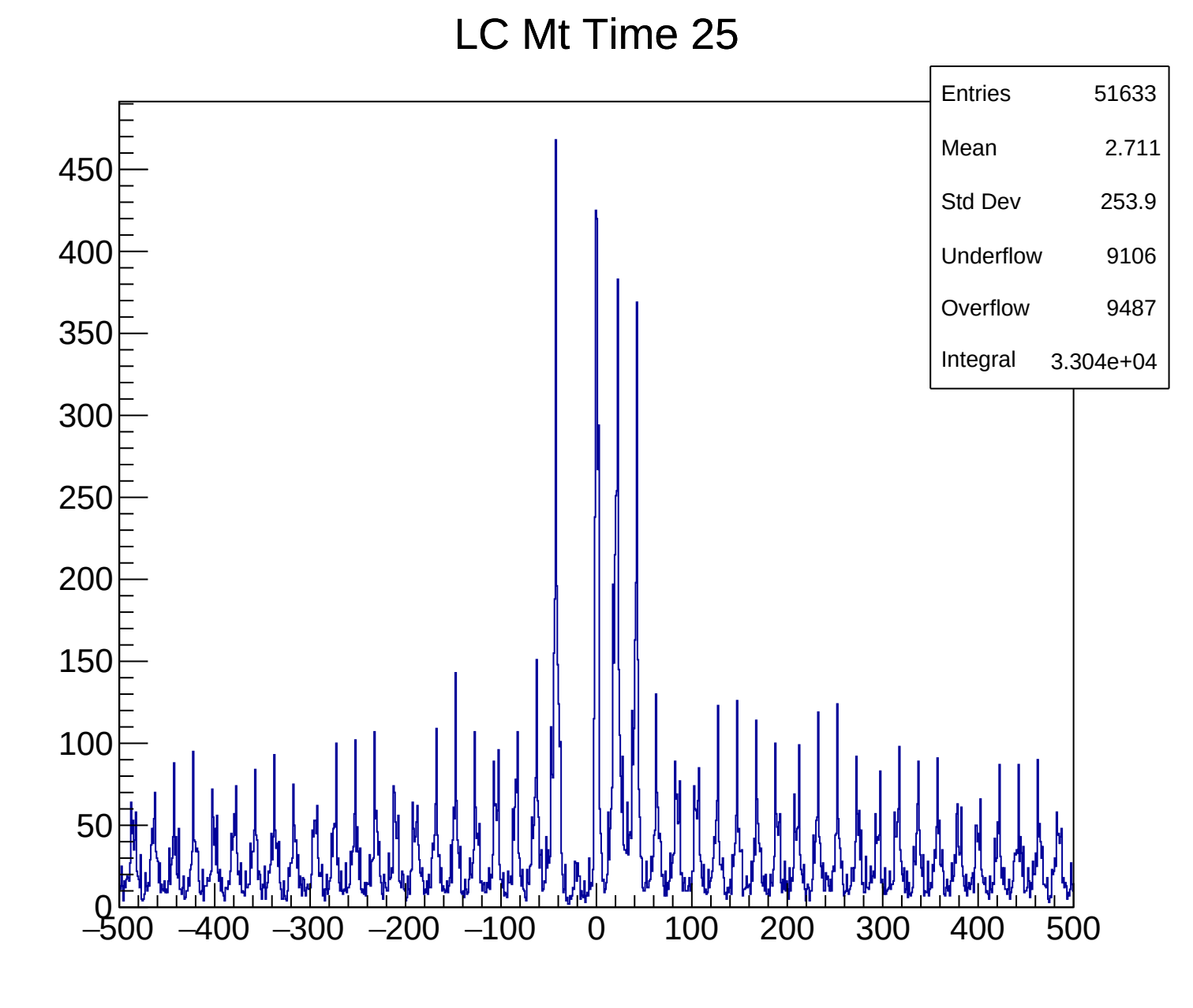
400
350
300
250
200
150
100
50
0
–20
–15
–10
–5
0
5
10
15
20

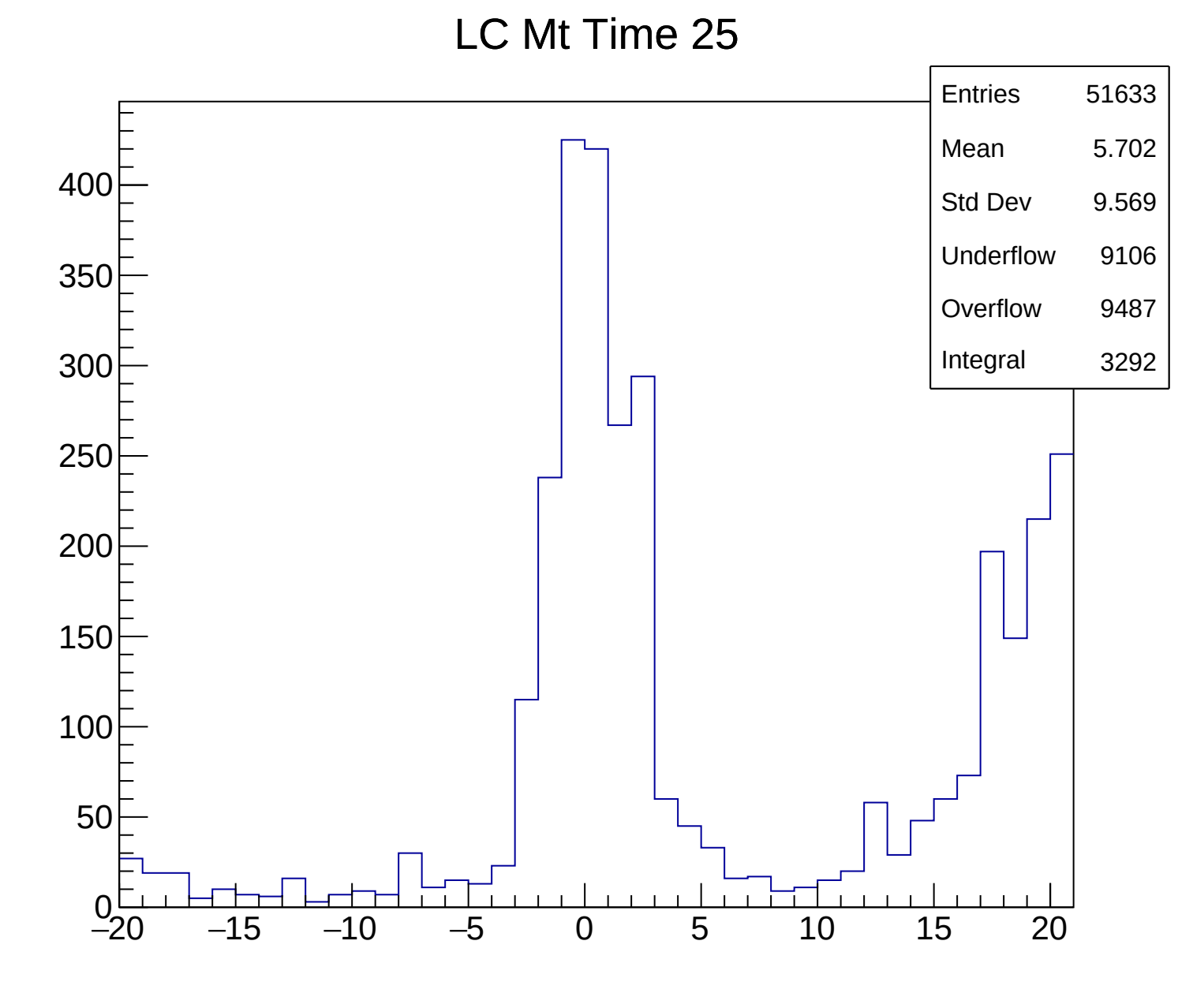

LC Mt Time 23
Entries 104520
Mean 0.3733
Std Dev 256.7
Underflow 1.862e+04
Overflow 1.942e+04
Integral 6.648e+04
900
800
700
600
500
400
300
200
100
0
–500
–400
–300
–200
–100
0
100
200
300
400
500

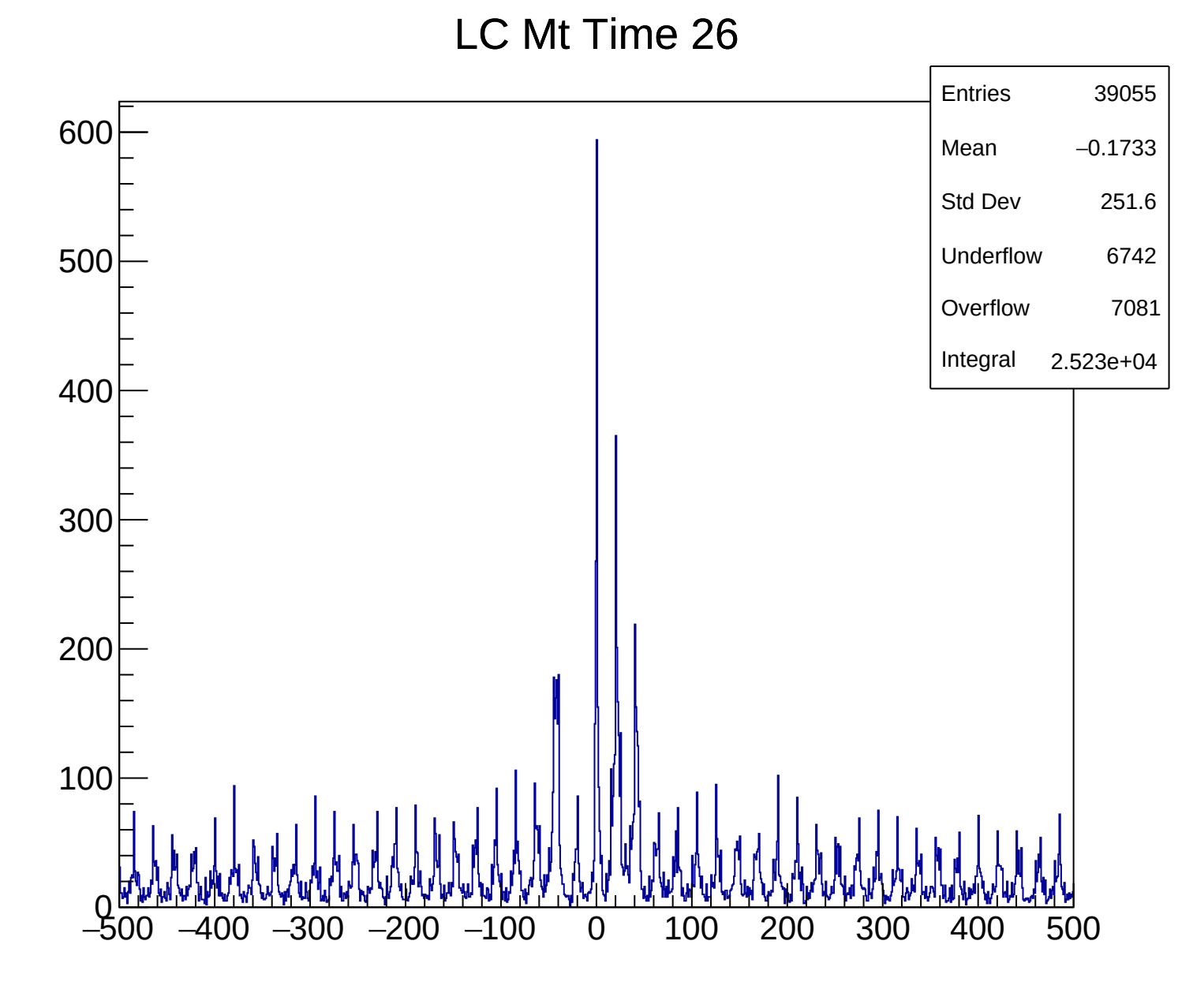

LC Mt Time 23
Entries 104520
Mean 5.357
Std Dev 8.845
Underflow 1.862e+04
Overflow 1.942e+04
Integral 5934
900
800
700
600
500
400
300
200
100
0
–20
–15
–10
–5
0
5
10
15
20

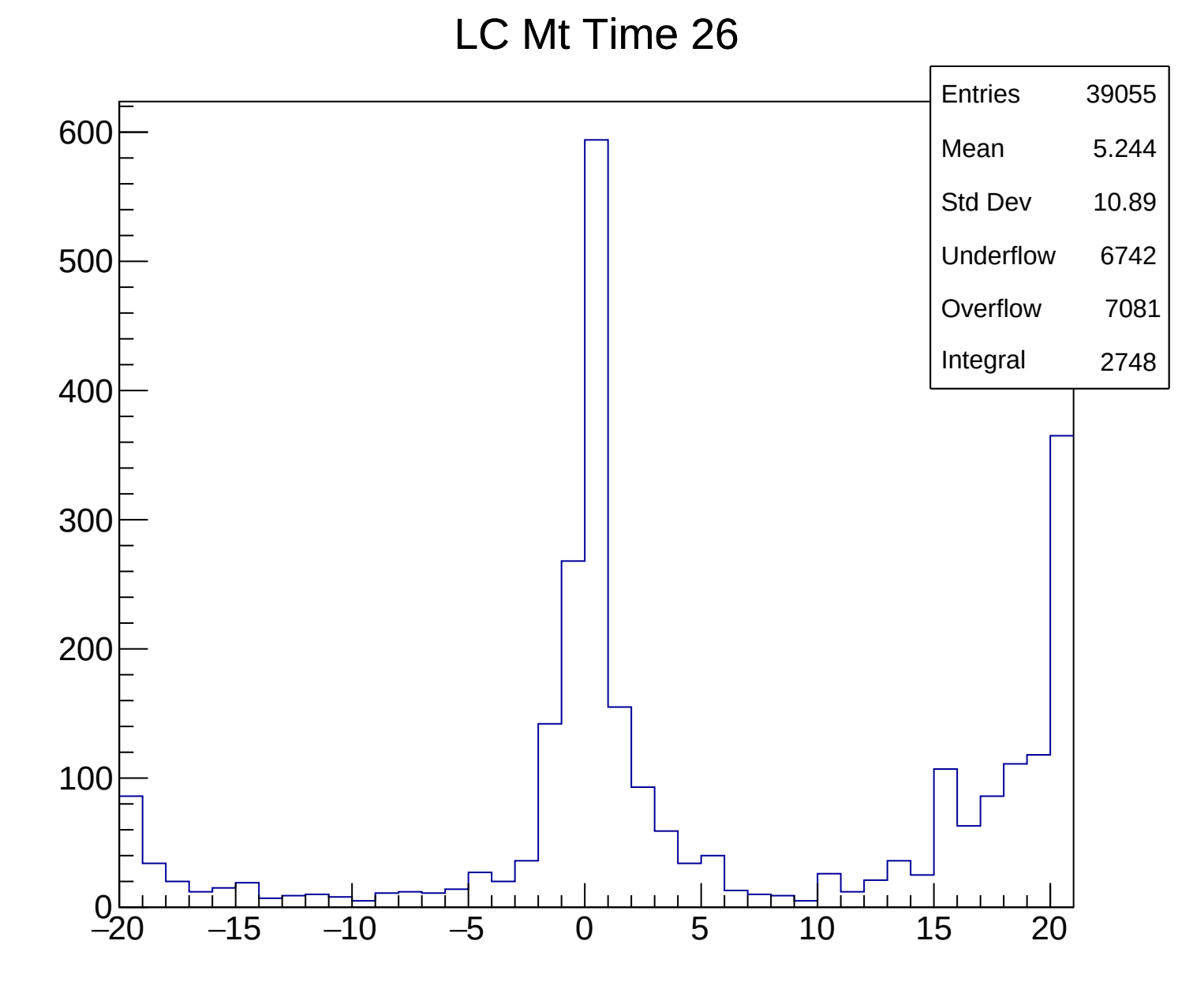

LC Mt Time 24
Entries 46181
Mean –0.1599
Std Dev 255.3
Underflow 8144
Overflow 8660
Integral 2.938e+04
400
350
300
250
200
150
100
50
0
–500
–400
–300
–200
–100
0
100
200
300
400
500

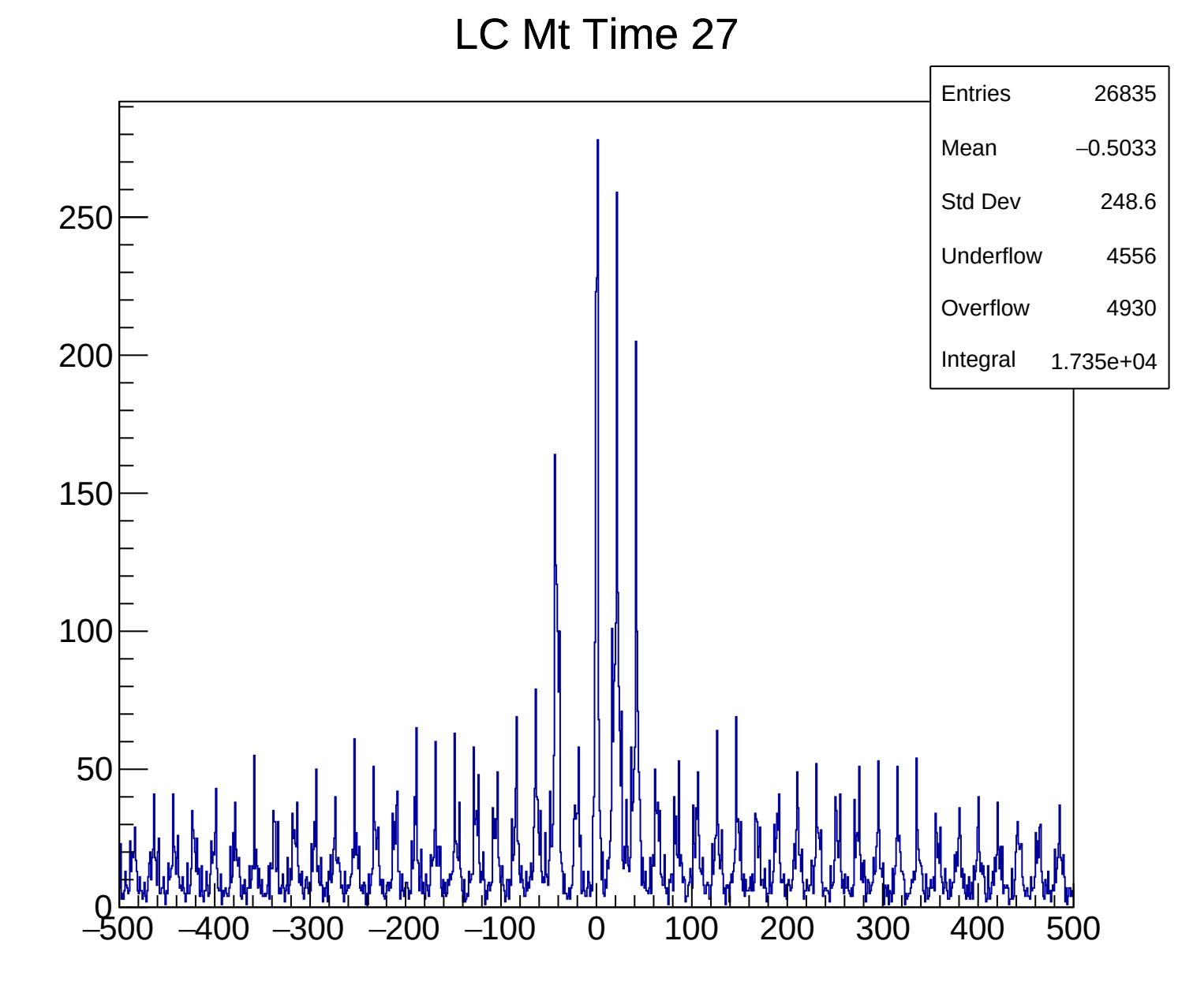

LC Mt Time 24
Entries 46181
Mean 5.387
Std Dev 9.171
Underflow 8144
Overflow 8660
Integral 2635
400
350
300
250
200
150
100
50
0
–20
–15
–10
–5
0
5
10
15
20

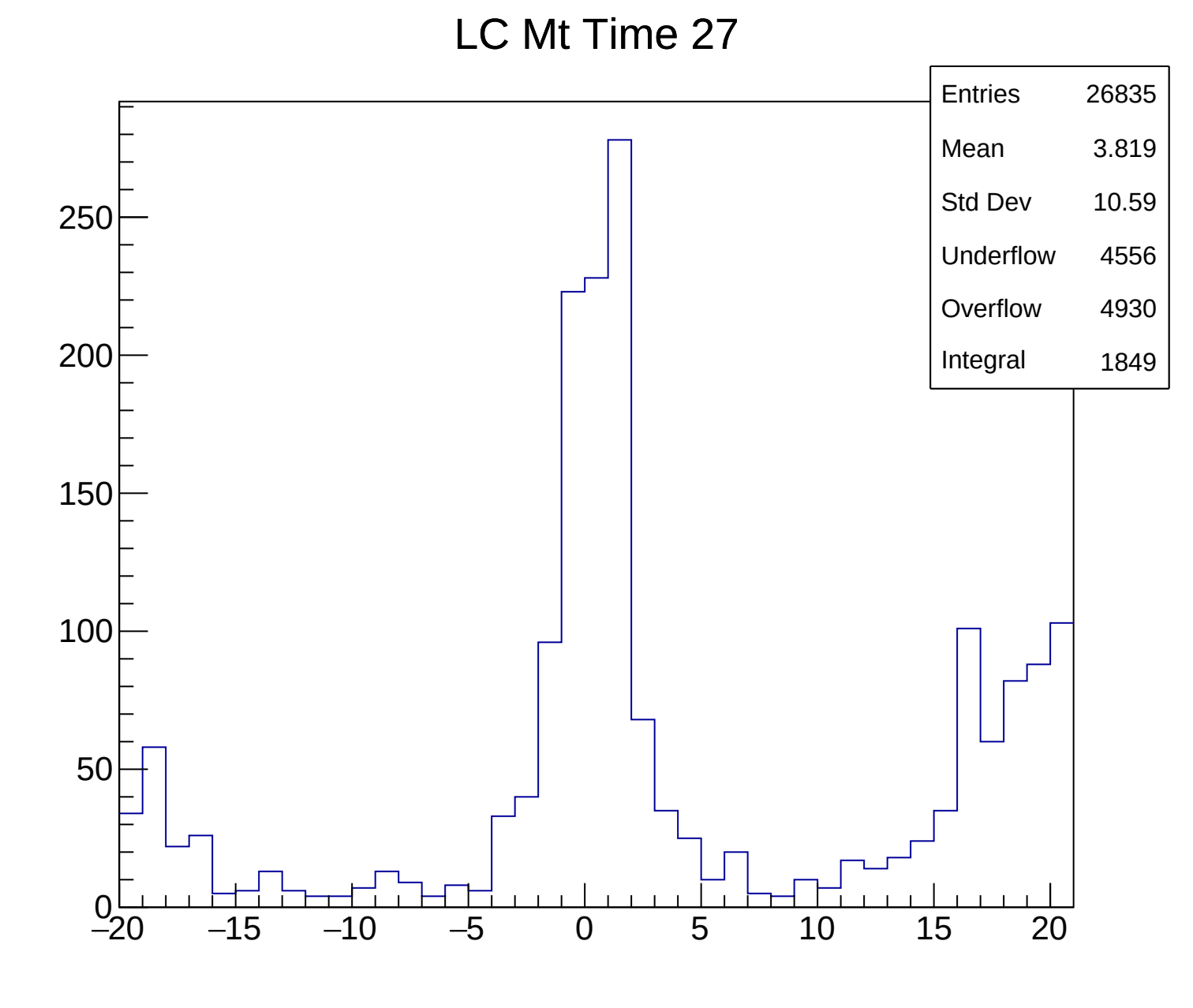

LC Mt Time 25
Entries 51633
Mean 2.711
Std Dev 253.9
Underflow 9106
Overflow 9487
Integral 3.304e+04
450
400
350
300
250
200
150
100
50
0
–500
–400
–300
–200
–100
0
100
200
300
400
500

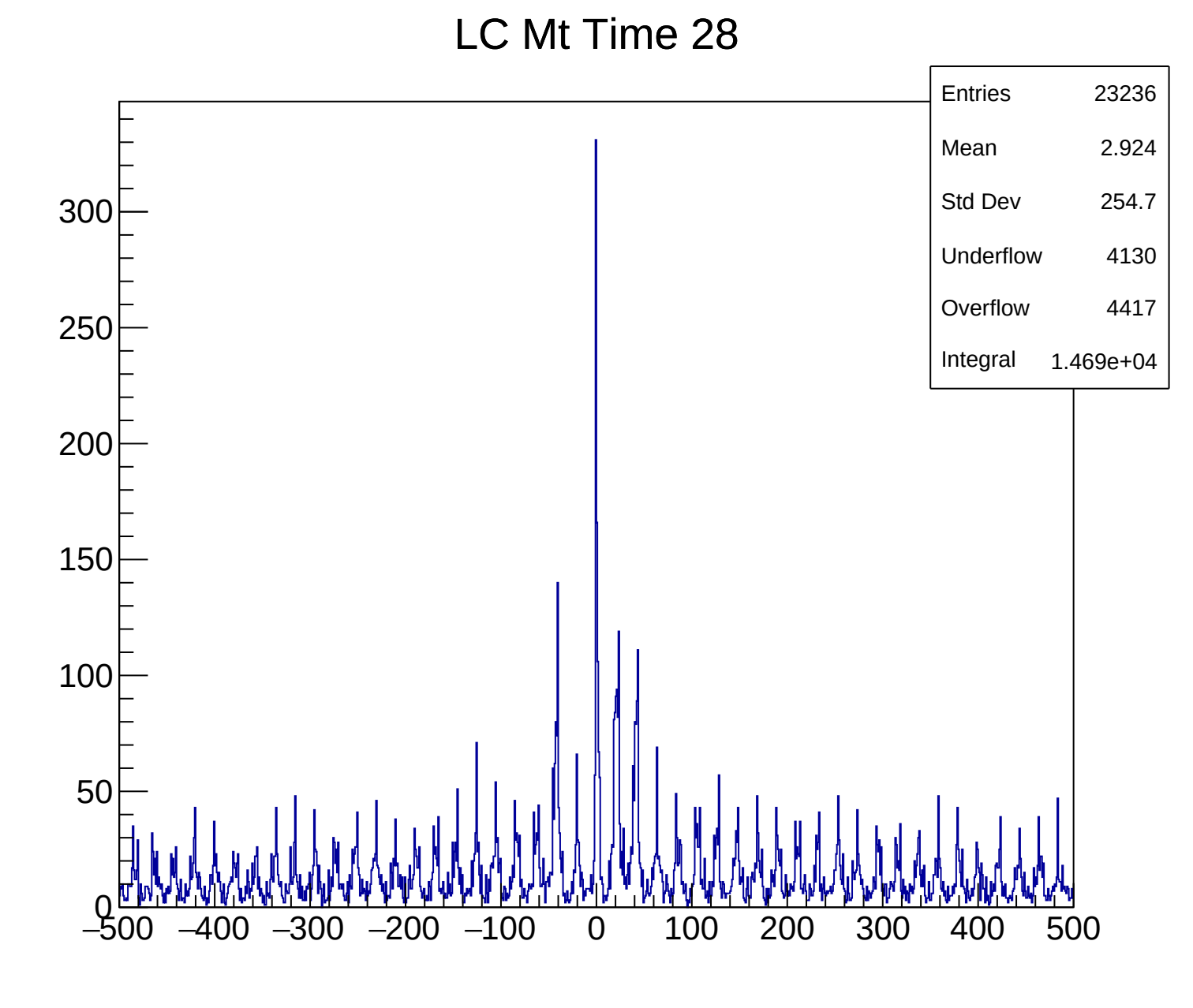

LC Mt Time 25
Entries 51633
Mean 5.702
Std Dev 9.569
Underflow 9106
Overflow 9487
Integral 3292
400
350
300
250
200
150
100
50
0
–20
–15
–10
–5
0
5
10
15
20

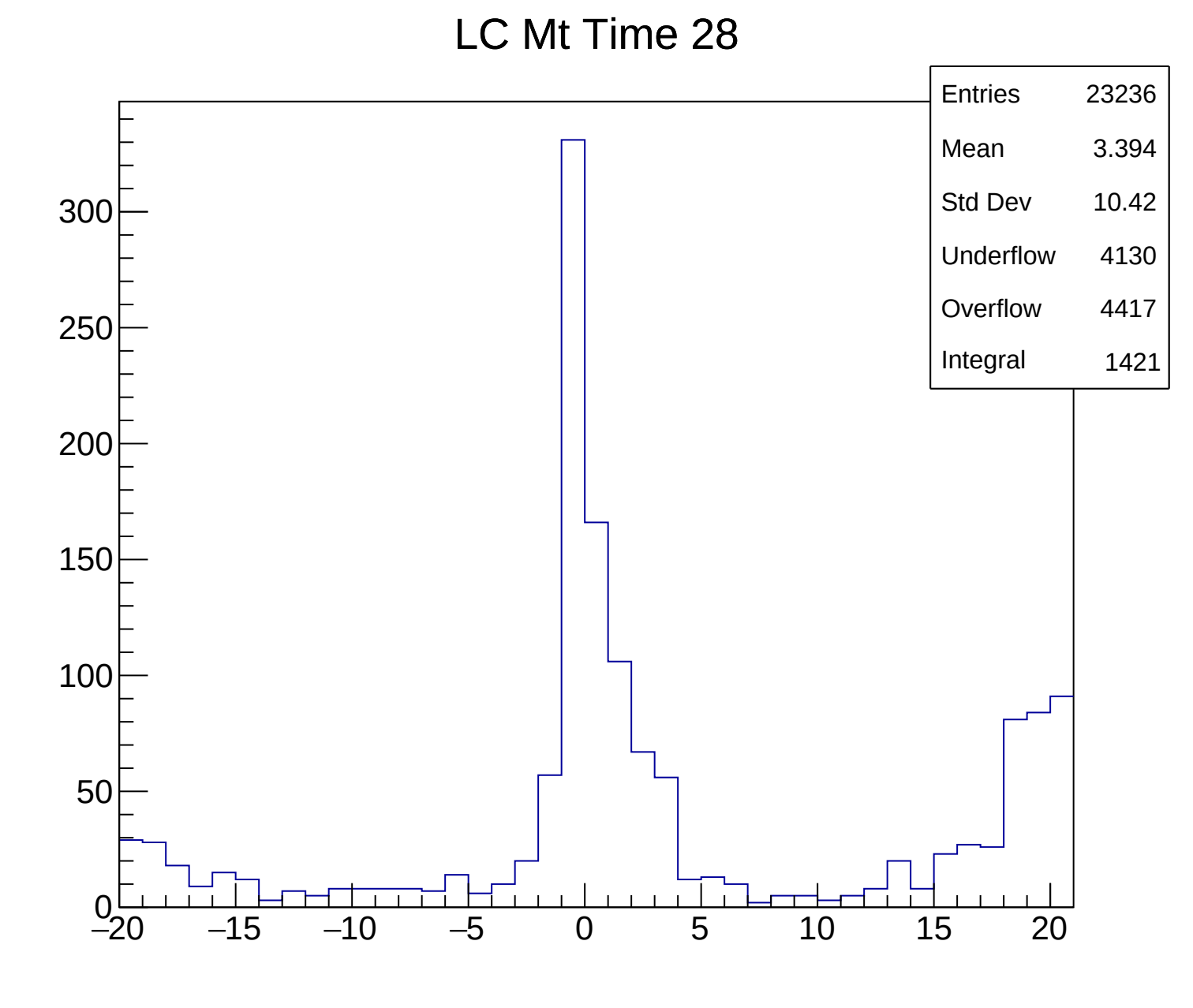

LC Mt Time 26
Entries 39055
Mean –0.1733
Std Dev 251.6
Underflow 6742
Overflow 7081
Integral 2.523e+04
600
500
400
300
200
100
0
–500
–400
–300
–200
–100
0
100
200
300
400
500

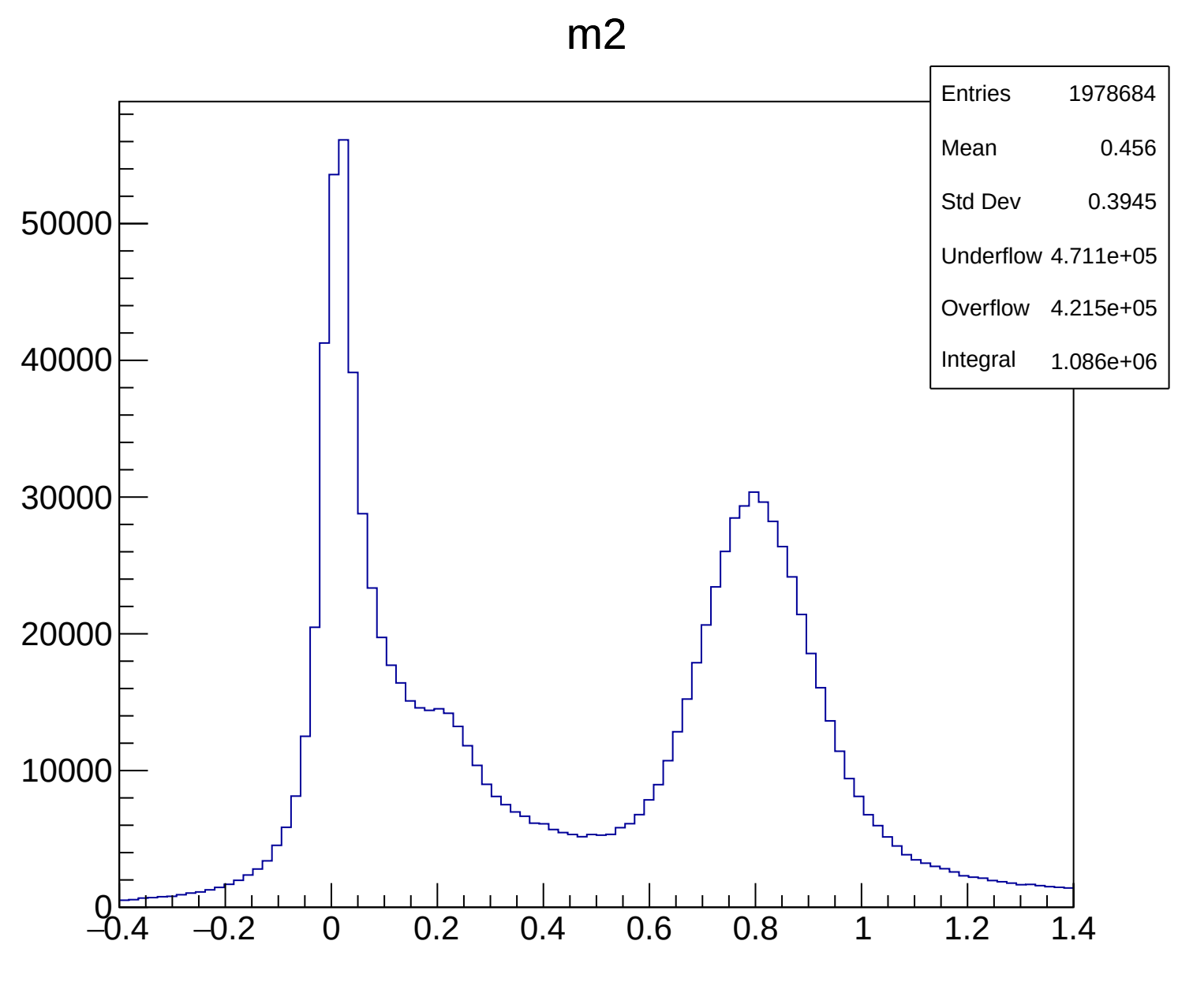

LC Mt Time 26
Entries 39055
Mean 5.244
Std Dev 10.89
Underflow 6742
Overflow 7081
Integral 2748
600
500
400
300
200
100
0
–20
–15
–10
–5
0
5
10
15
20

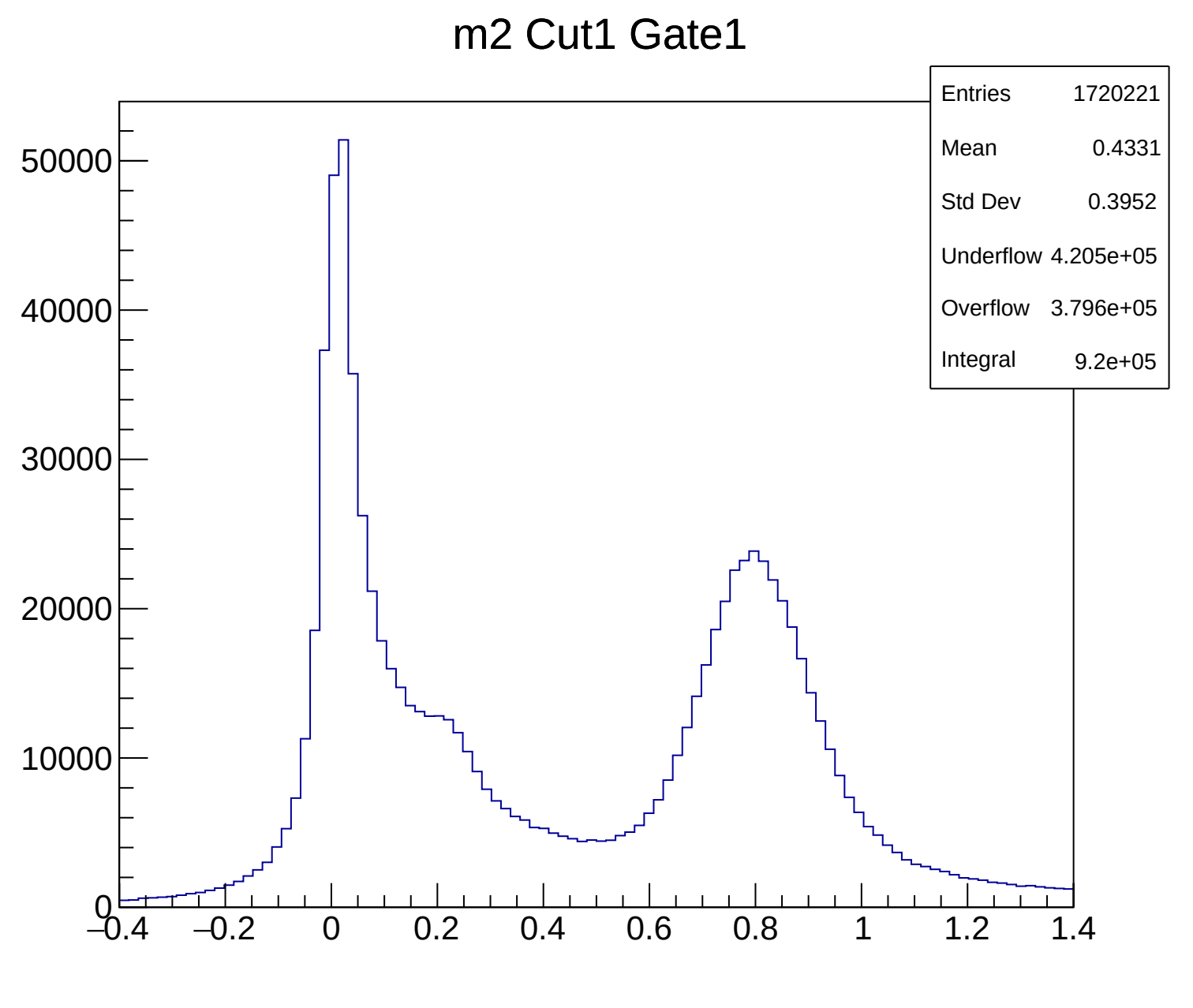

LC Mt Time 27
Entries 26835
Mean –0.5033
Std Dev 248.6
Underflow 4556
Overflow 4930
Integral 1.735e+04
250
200
150
100
50
0
–500
–400
–300
–200
–100
0
100
200
300
400
500

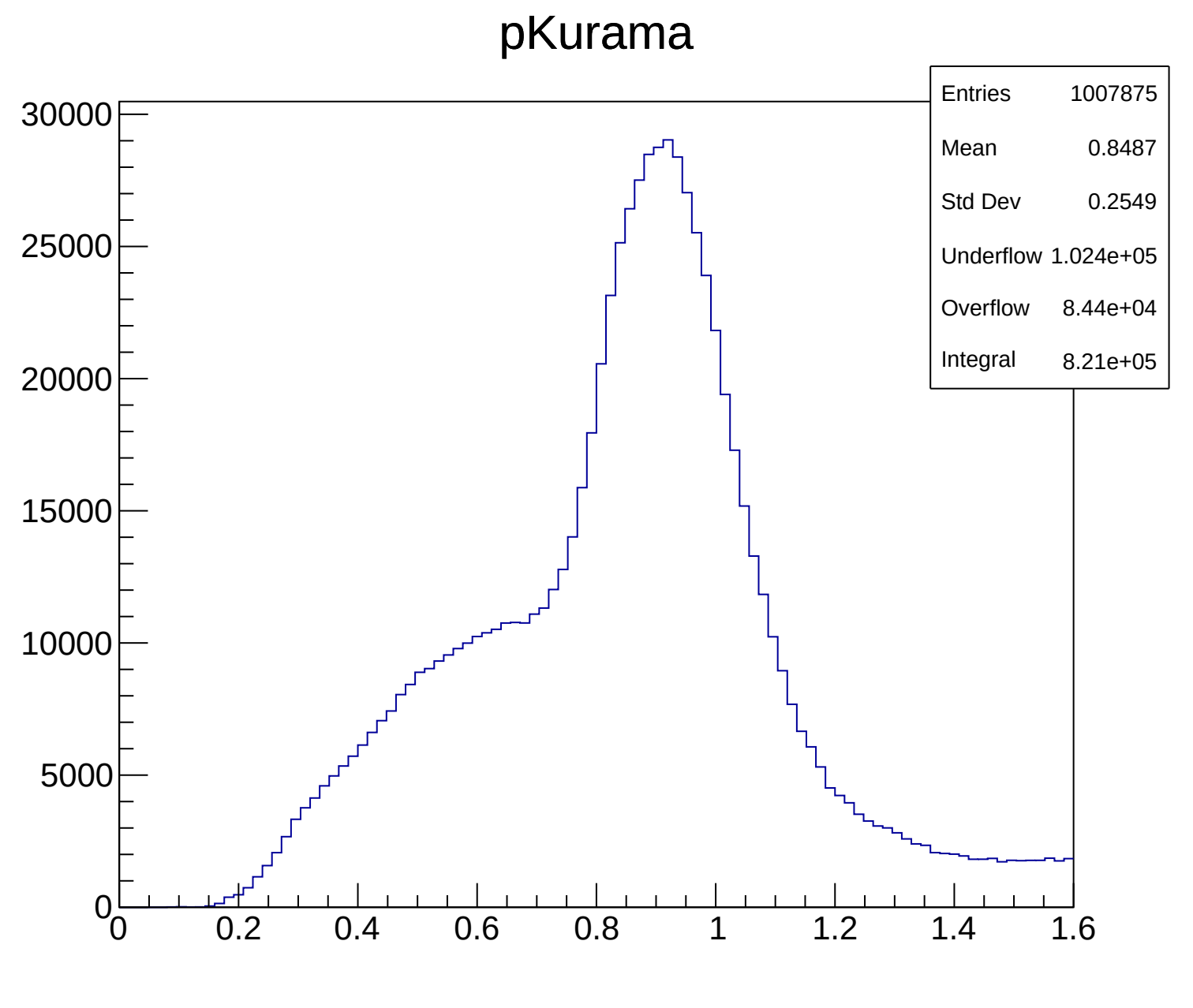

LC Mt Time 27
Entries 26835
Mean 3.819
Std Dev 10.59
Underflow 4556
Overflow 4930
Integral 1849
250
200
150
100
50
0
–20
–15
–10
–5
0
5
10
15
20

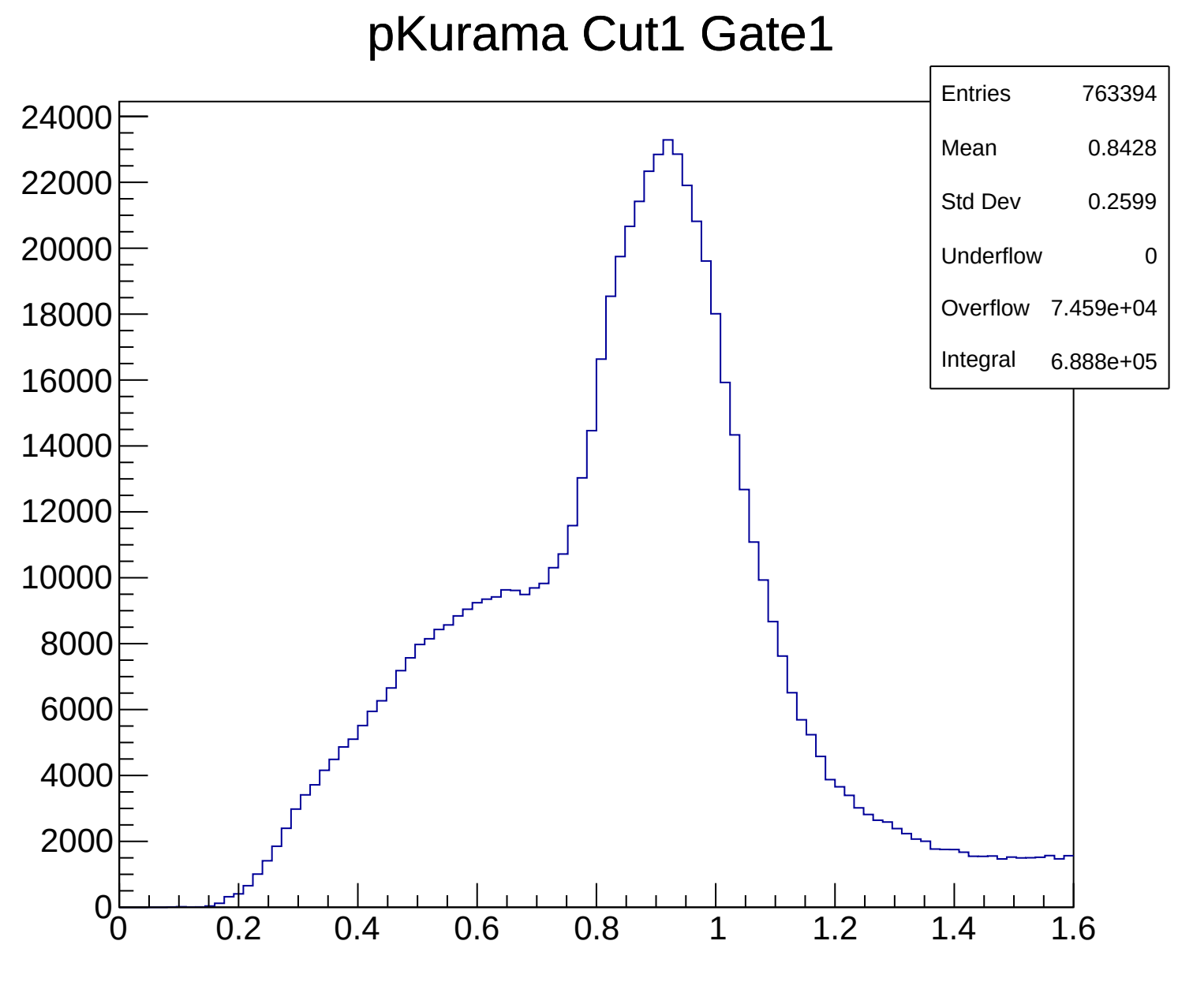

LC Mt Time 28
Entries 23236
Mean 2.924
Std Dev 254.7
Underflow 4130
Overflow 4417
Integral 1.469e+04
300
250
200
150
100
50
0
–500
–400
–300
–200
–100
0
100
200
300
400
500

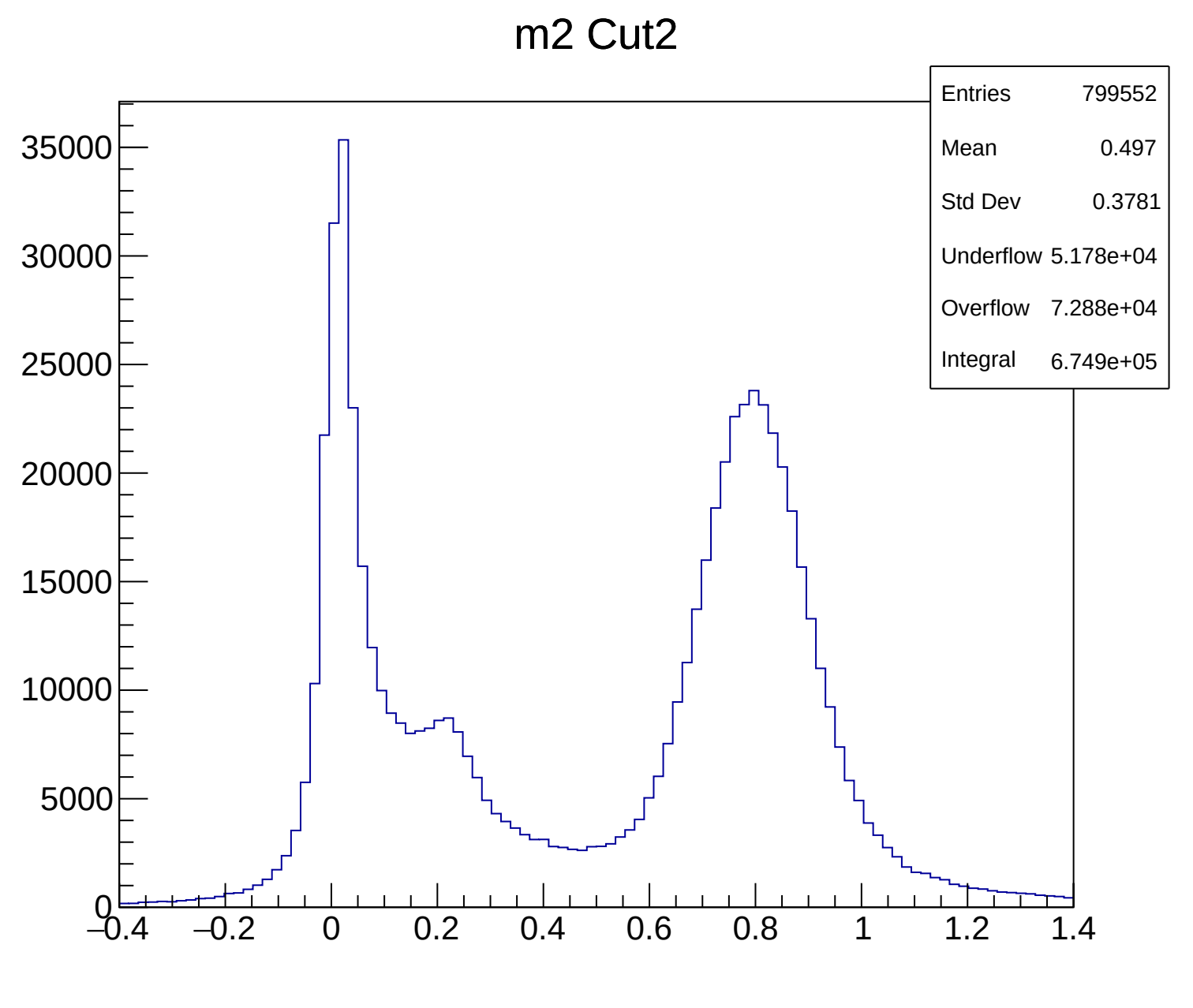

LC Mt Time 28
Entries 23236
Mean 3.394
Std Dev 10.42
Underflow 4130
Overflow 4417
Integral 1421
300
250
200
150
100
50
0
–20
–15
–10
–5
0
5
10
15
20

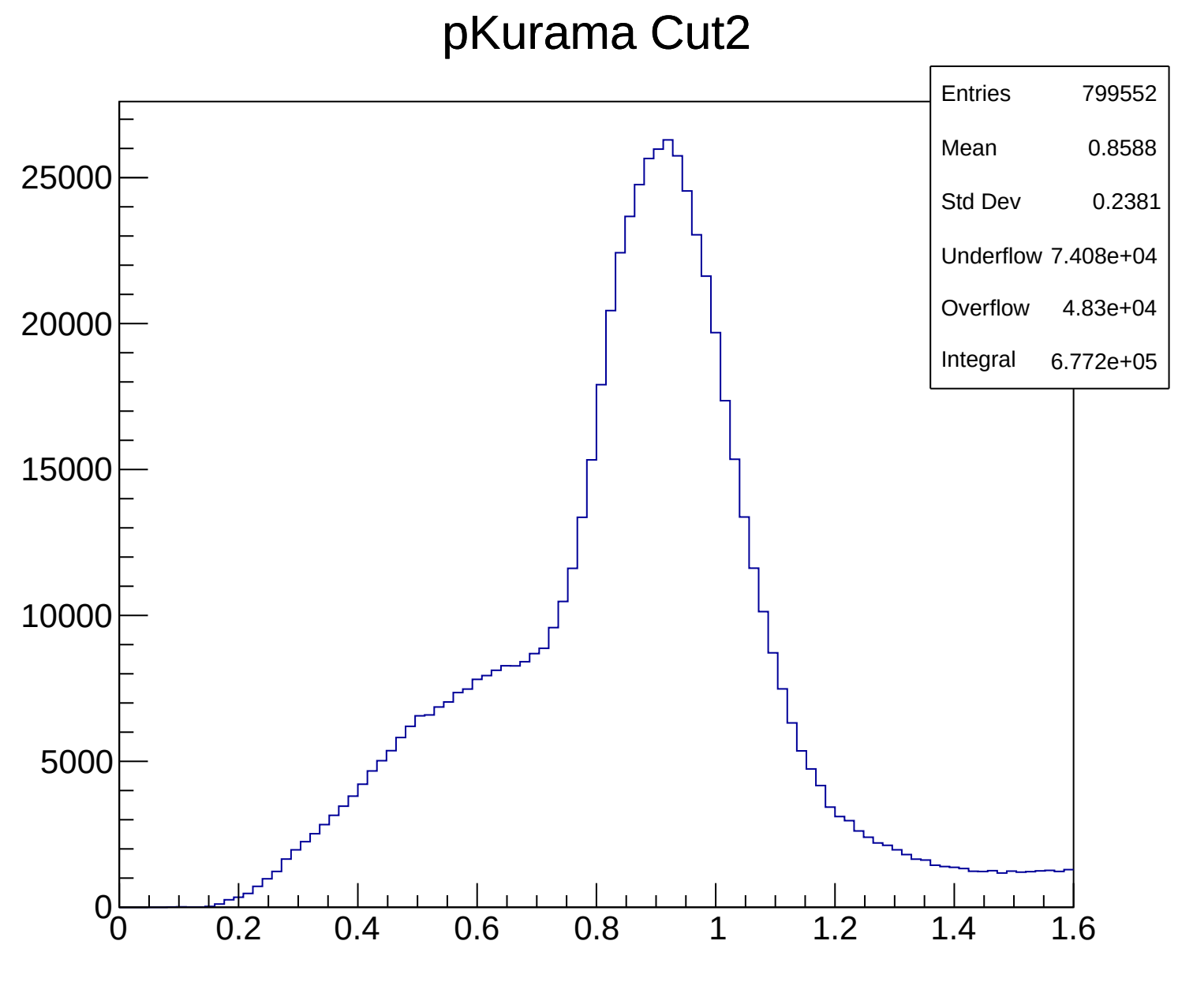

m2
Entries 1978684
Mean 0.456
Std Dev 0.3945
Underflow 4.711e+05
Overflow 4.215e+05
Integral 1.086e+06
50000
40000
30000
20000
10000
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4

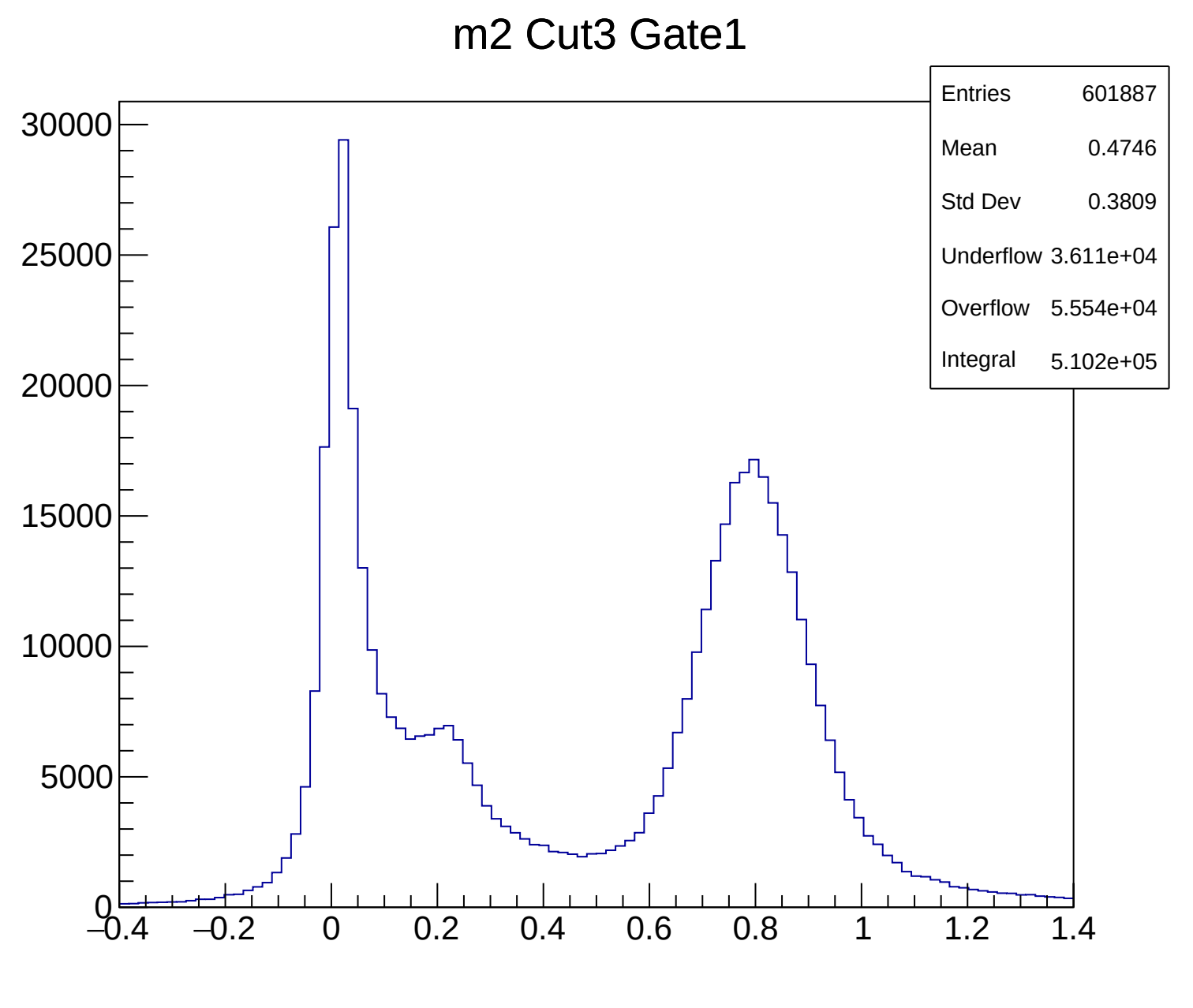

m2 Cut1 Gate1
Entries 1720221
Mean 0.4331
Std Dev 0.3952
Underflow 4.205e+05
Overflow 3.796e+05
Integral 9.2e+05
50000
40000
30000
20000
10000
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4

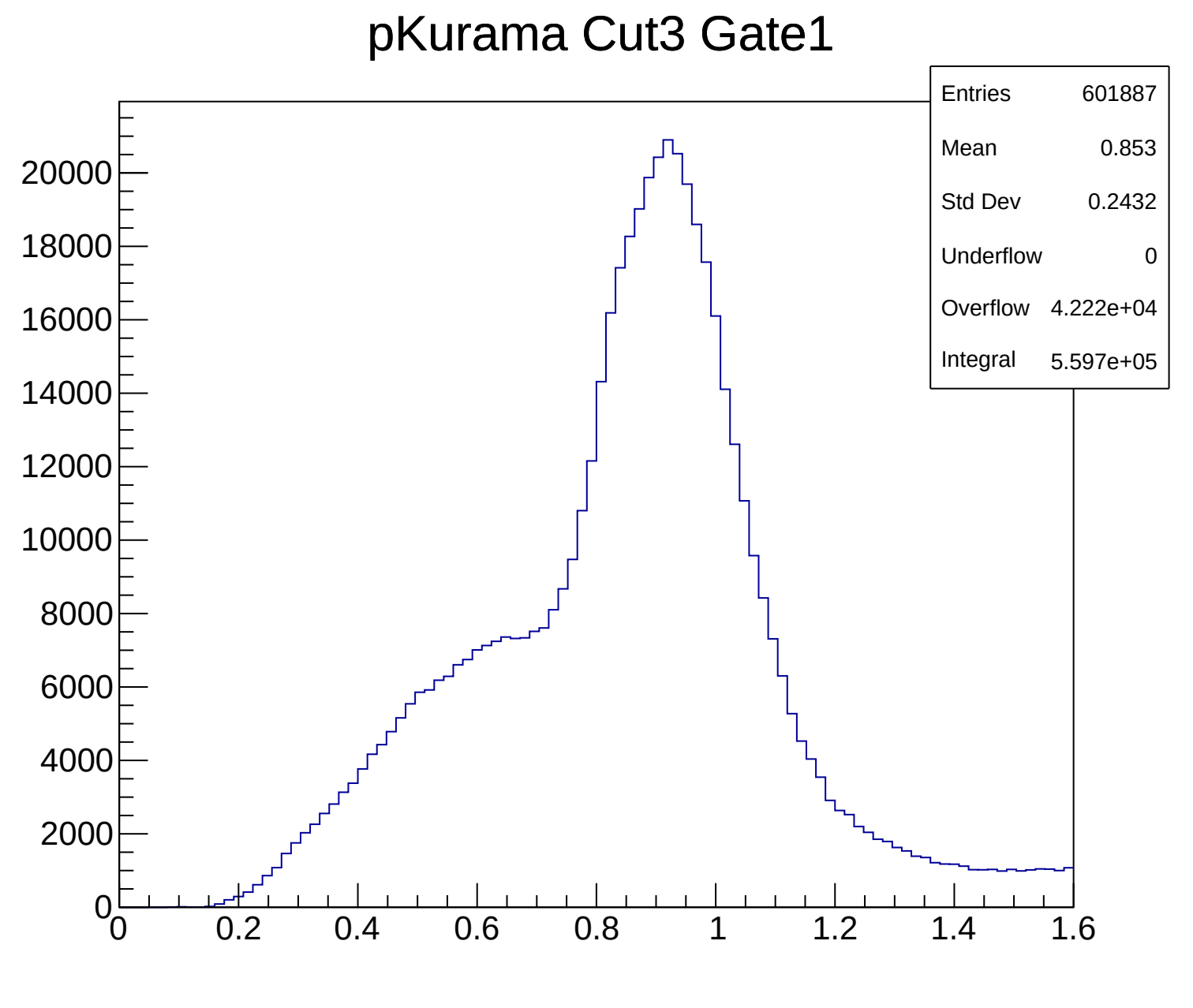

pKurama
Entries 1007875
Mean 0.8487
Std Dev 0.2549
Underflow 1.024e+05
Overflow 8.44e+04
Integral 8.21e+05
30000
25000
20000
15000
10000
5000
0
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6

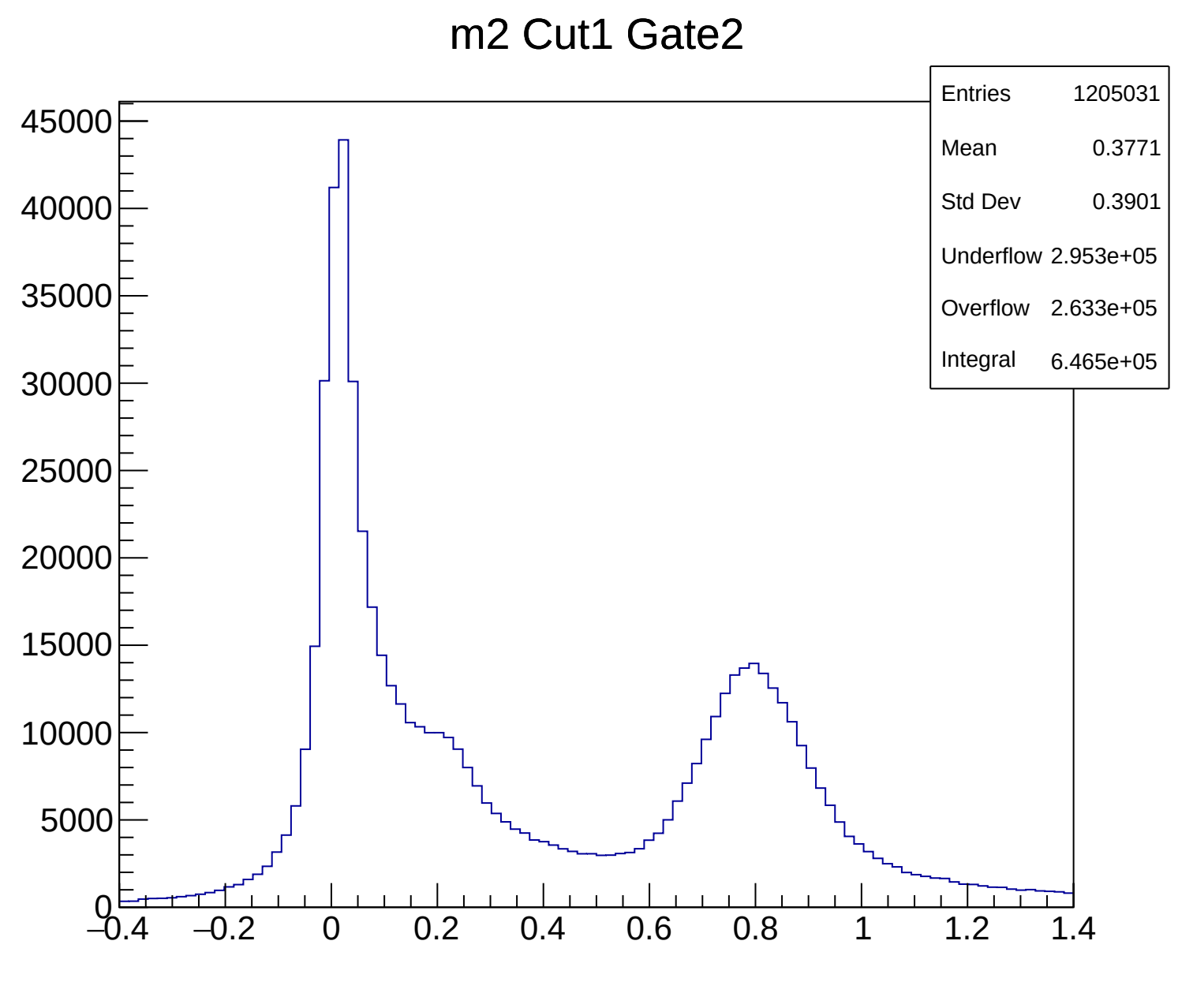

pKurama Cut1 Gate1
Entries 763394
Mean 0.8428
Std Dev 0.2599
Underflow 0
Overflow 7.459e+04
Integral 6.888e+05
24000
22000
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6

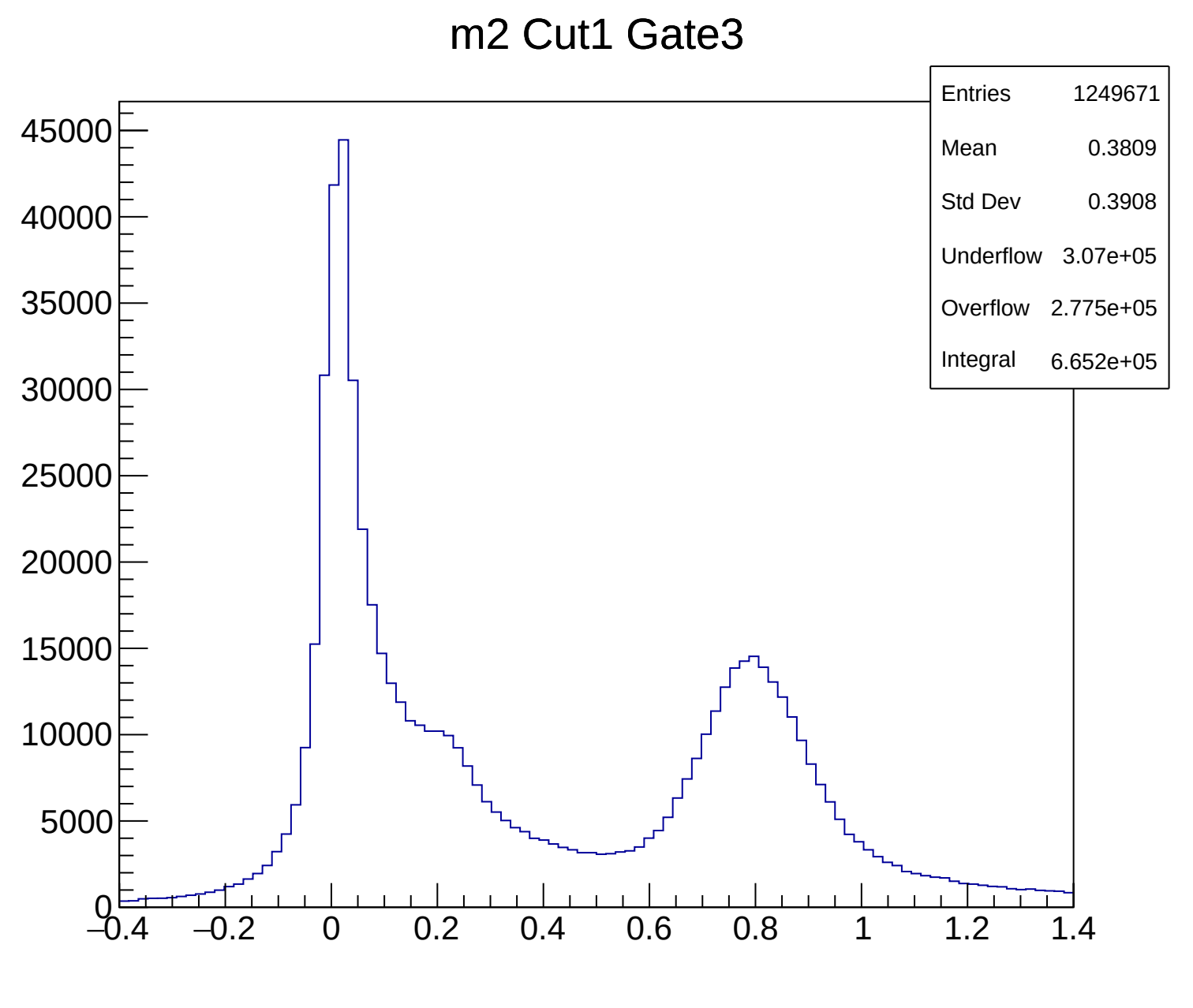

m2 Cut2
Entries 799552
Mean 0.497
Std Dev 0.3781
Underflow 5.178e+04
Overflow 7.288e+04
Integral 6.749e+05
35000
30000
25000
20000
15000
10000
5000
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4

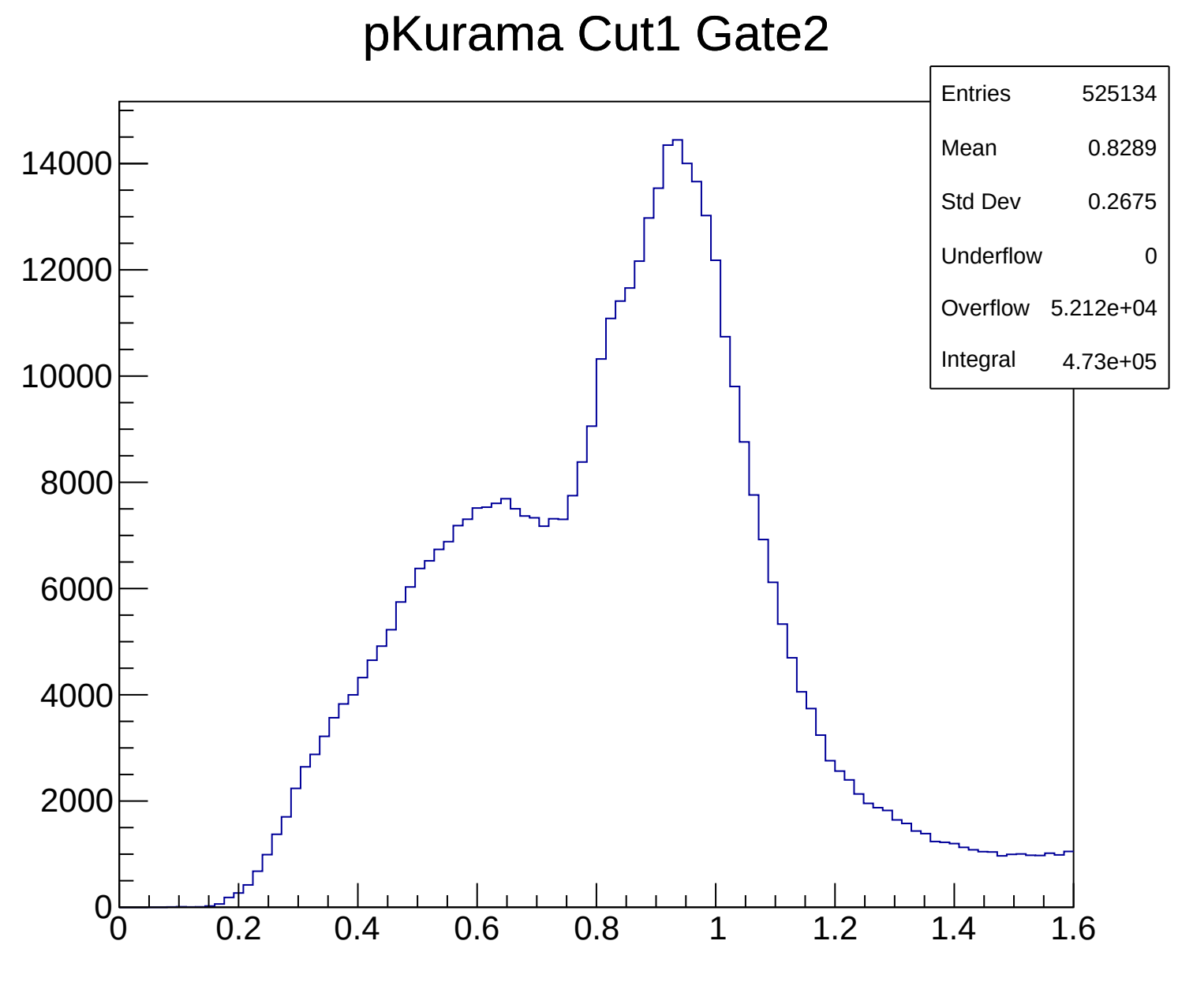

pKurama Cut2
Entries 799552
Mean 0.8588
Std Dev 0.2381
Underflow 7.408e+04
Overflow 4.83e+04
Integral 6.772e+05
25000
20000
15000
10000
5000
0
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6

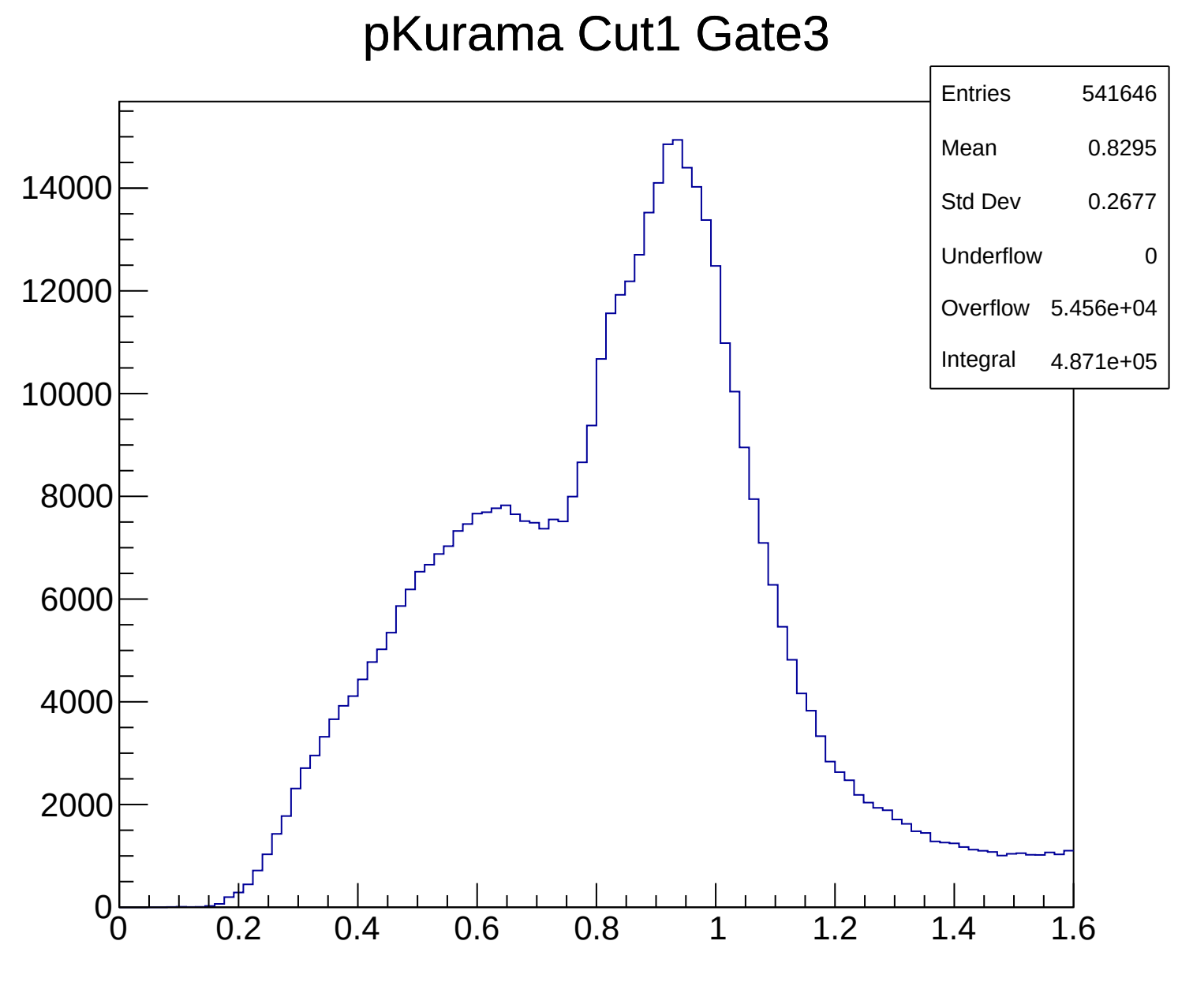

m2 Cut3 Gate1
Entries 601887
Mean 0.4746
Std Dev 0.3809
Underflow 3.611e+04
Overflow 5.554e+04
Integral 5.102e+05
30000
25000
20000
15000
10000
5000
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4

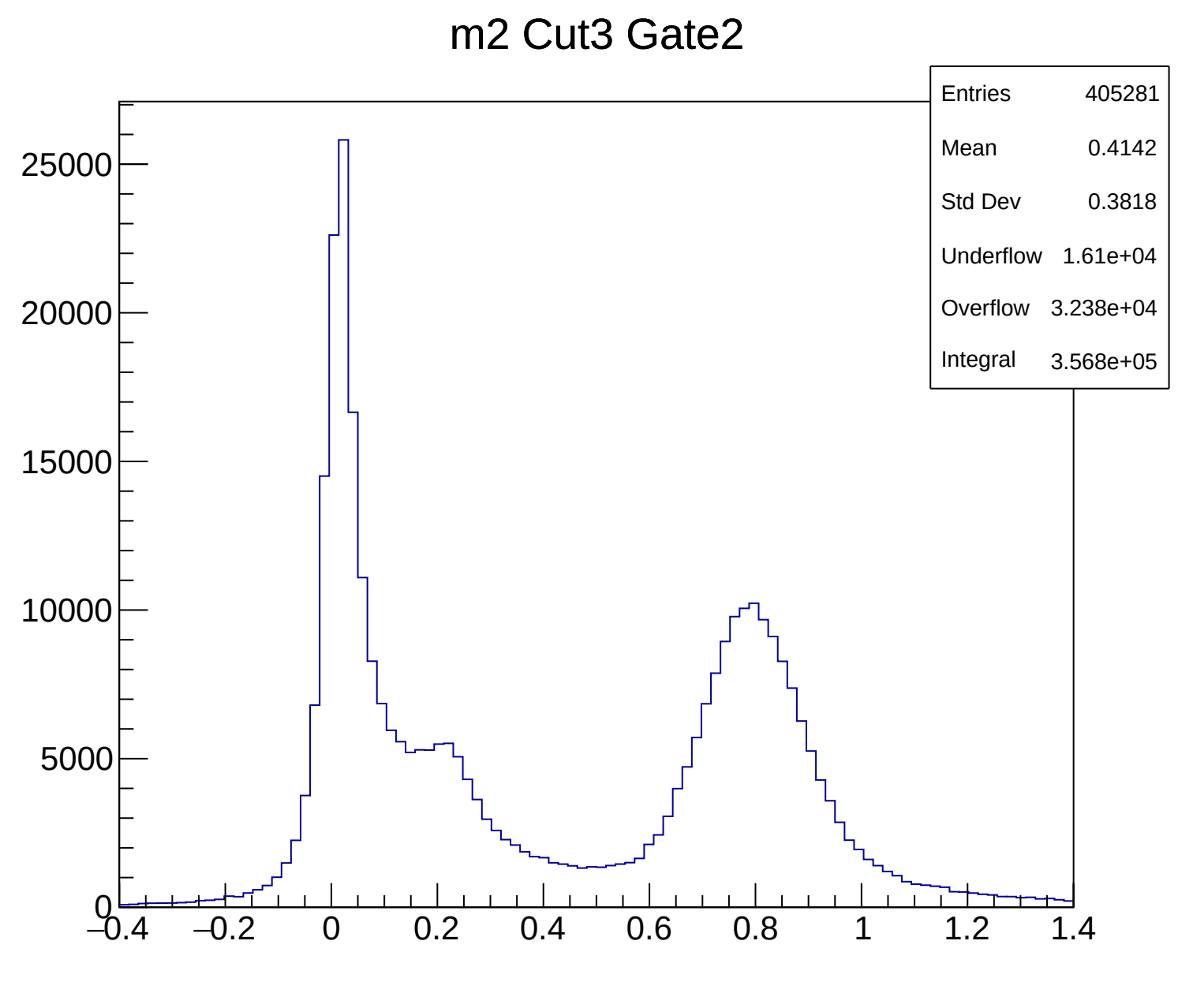

pKurama Cut3 Gate1
Entries 601887
Mean 0.853
Std Dev 0.2432
Underflow 0
Overflow 4.222e+04
Integral 5.597e+05
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6

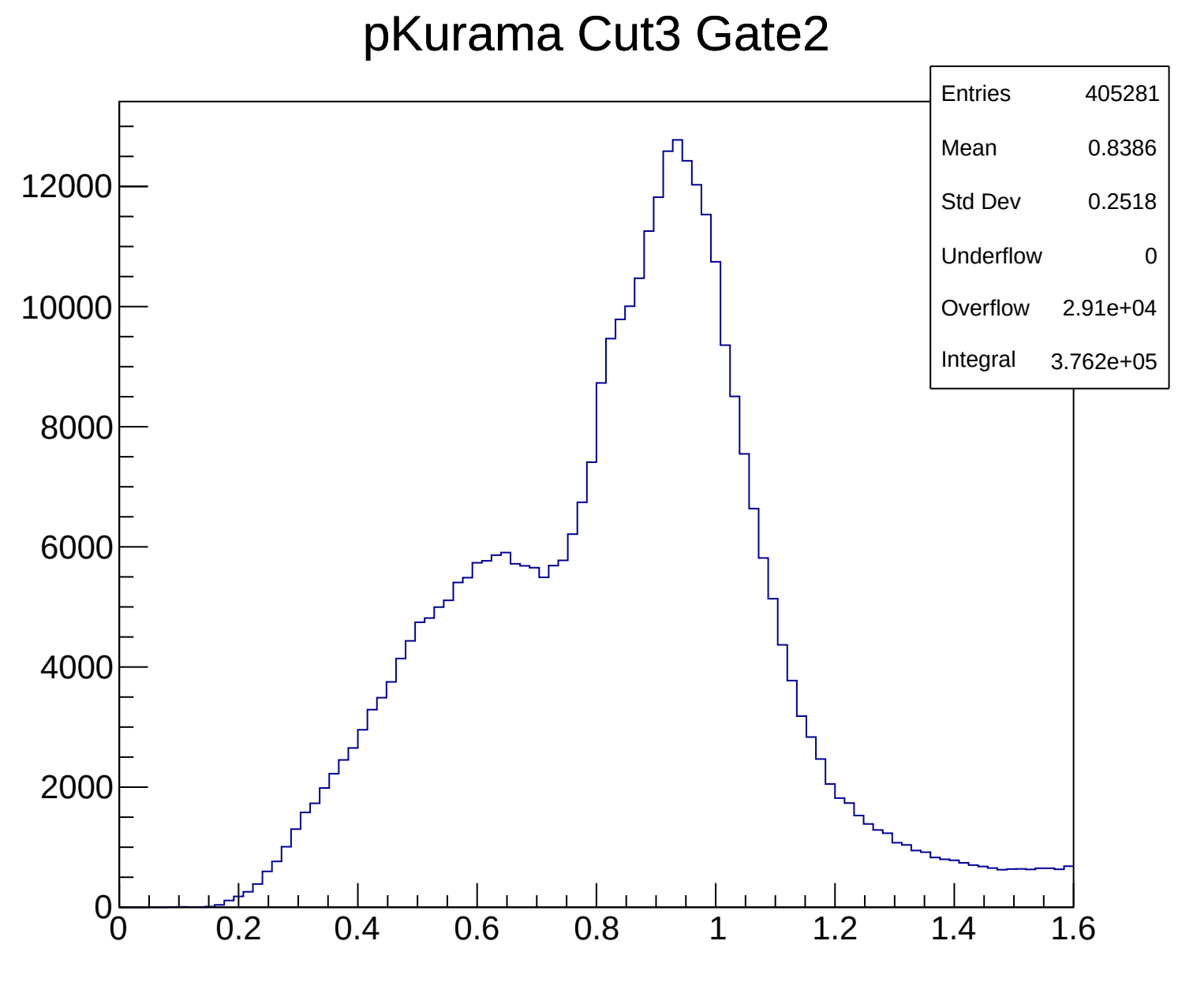

m2 Cut1 Gate2
Entries 1205031
Mean 0.3771
Std Dev 0.3901
Underflow 2.953e+05
Overflow 2.633e+05
Integral 6.465e+05
45000
40000
35000
30000
25000
20000
15000
10000
5000
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4

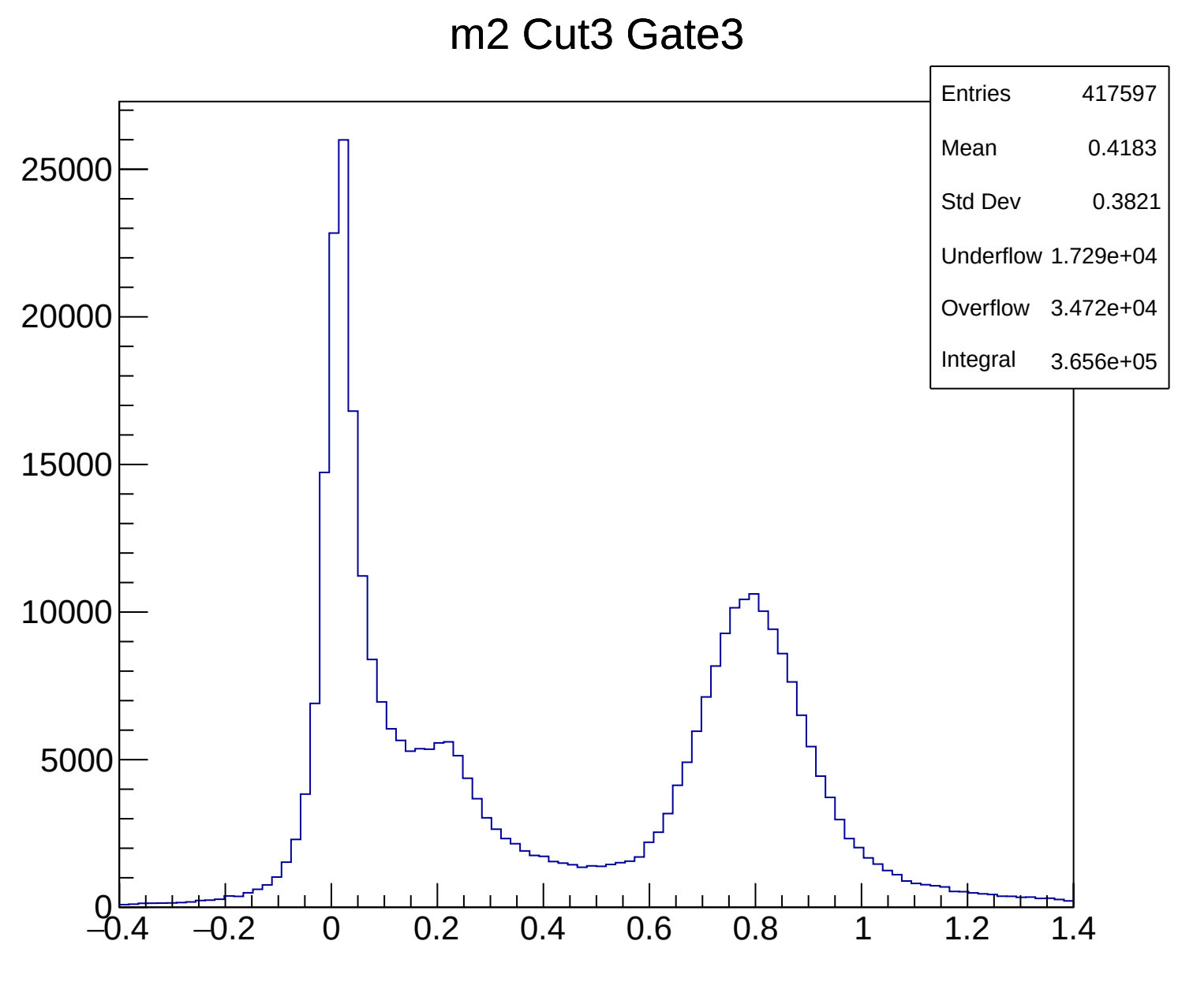

m2 Cut1 Gate3
Entries 1249671
Mean 0.3809
Std Dev 0.3908
Underflow 3.07e+05
Overflow 2.775e+05
Integral 6.652e+05
45000
40000
35000
30000
25000
20000
15000
10000
5000
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4

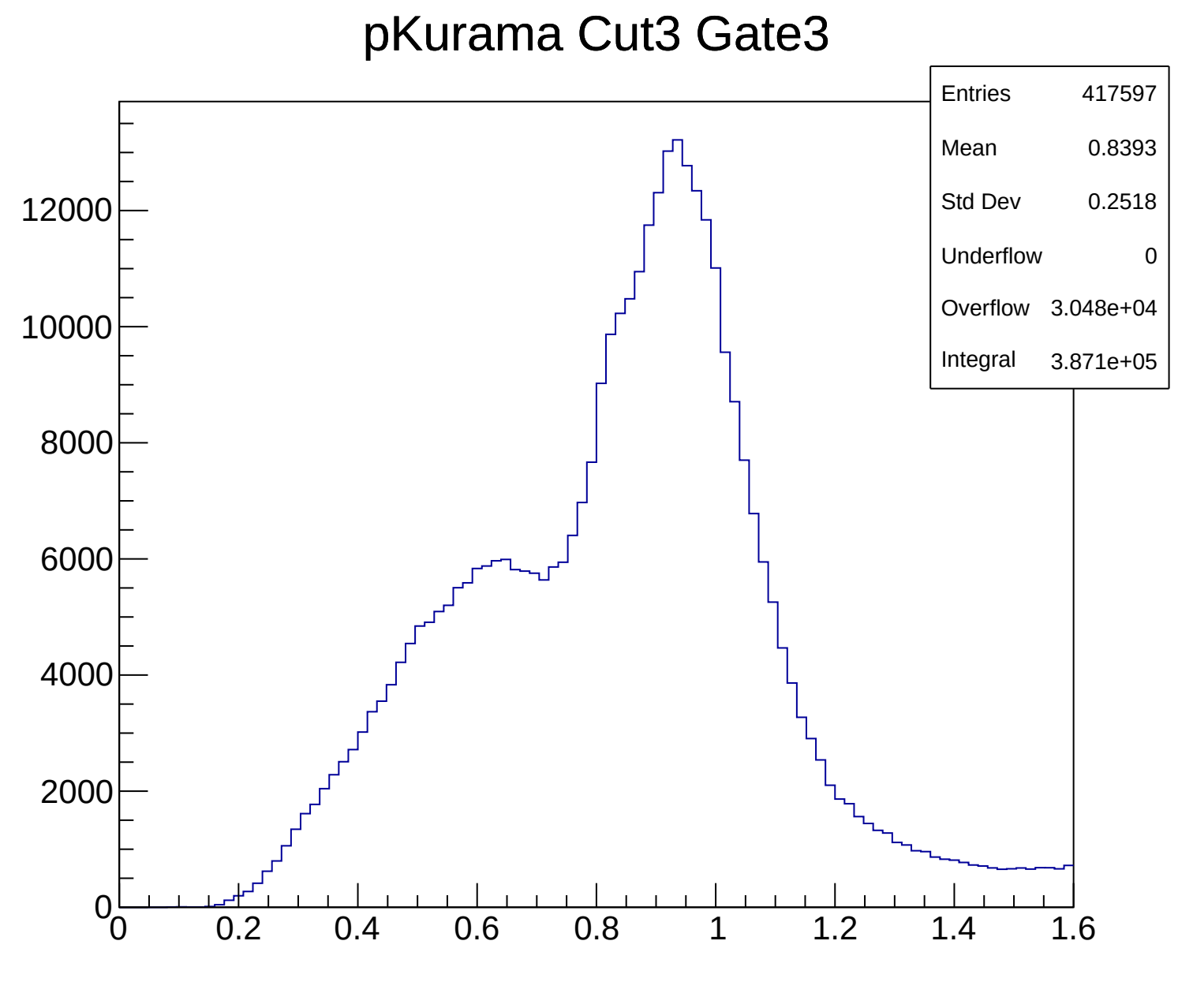

pKurama Cut1 Gate2
Entries 525134
Mean 0.8289
Std Dev 0.2675
Underflow 0
Overflow 5.212e+04
Integral 4.73e+05
14000
12000
10000
8000
6000
4000
2000
0
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6

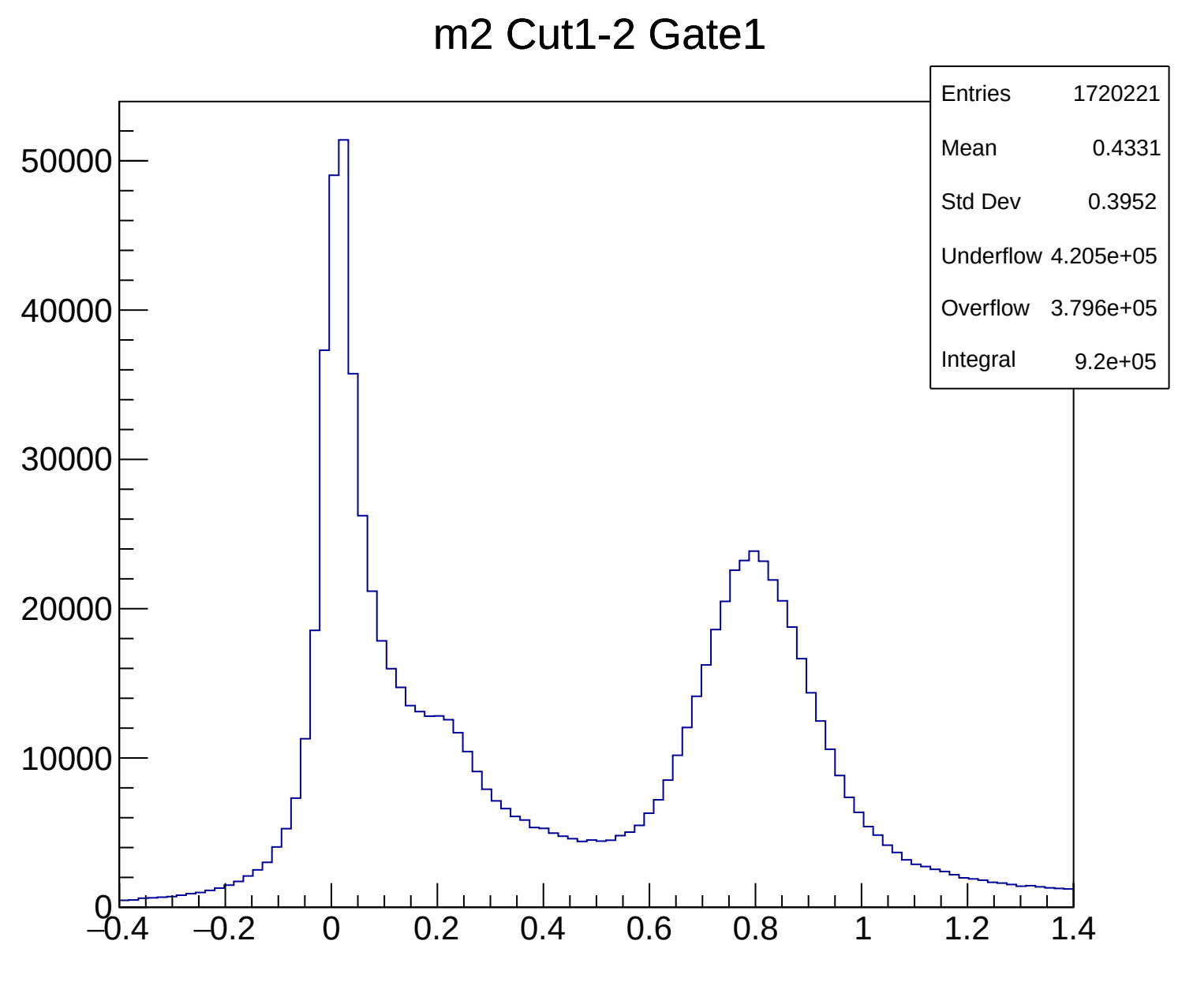

pKurama Cut1 Gate3
Entries 541646
Mean 0.8295
Std Dev 0.2677
Underflow 0
Overflow 5.456e+04
Integral 4.871e+05
14000
12000
10000
8000
6000
4000
2000
0
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6

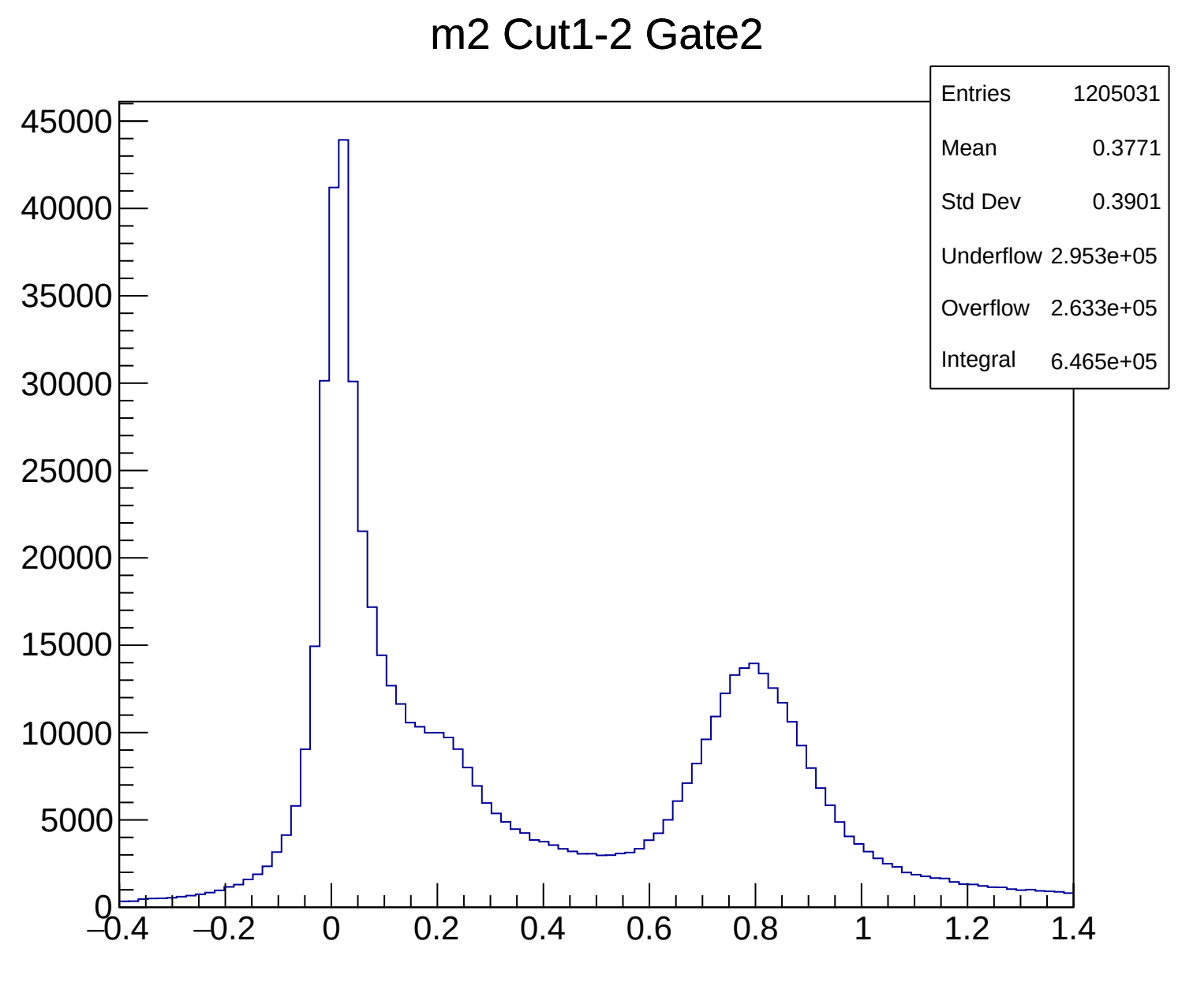

m2 Cut3 Gate2
Entries 405281
Mean 0.4142
Std Dev 0.3818
Underflow 1.61e+04
Overflow 3.238e+04
Integral 3.568e+05
25000
20000
15000
10000
5000
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4

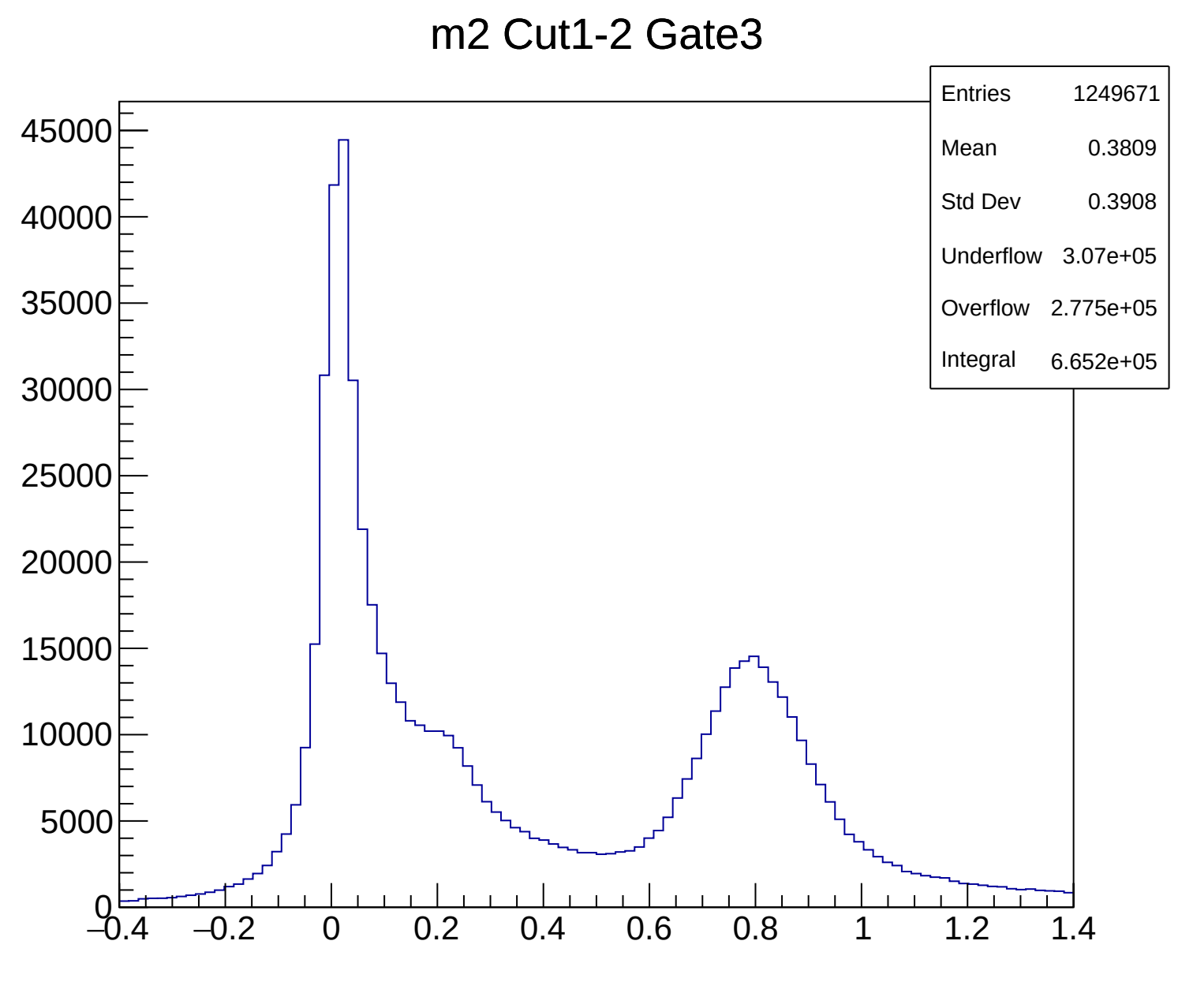

pKurama Cut3 Gate2
Entries 405281
Mean 0.8386
Std Dev 0.2518
Underflow 0
Overflow 2.91e+04
Integral 3.762e+05
12000
10000
8000
6000
4000
2000
0
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6

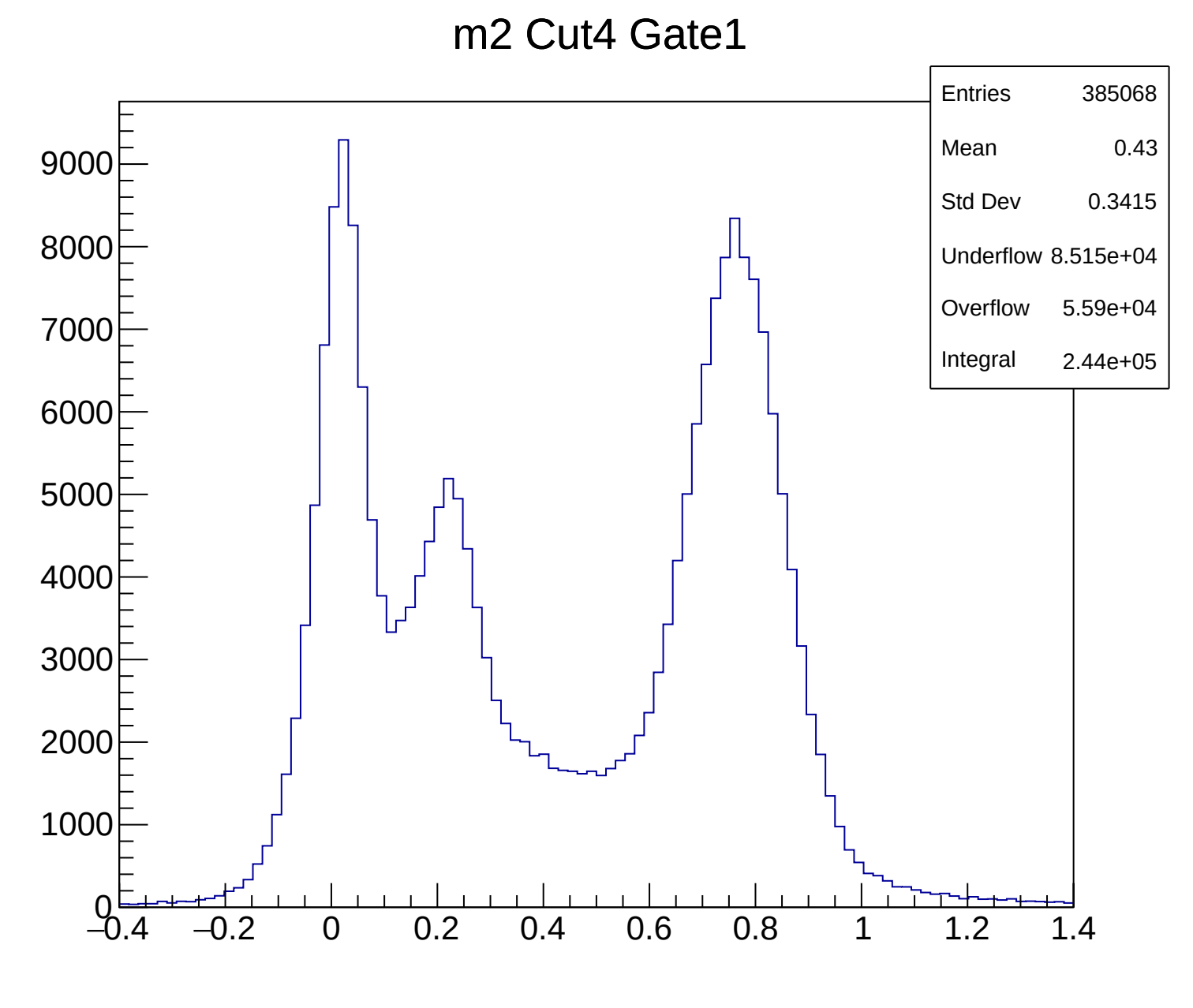

m2 Cut3 Gate3
Entries 417597
Mean 0.4183
Std Dev 0.3821
Underflow 1.729e+04
Overflow 3.472e+04
Integral 3.656e+05
25000
20000
15000
10000
5000
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4

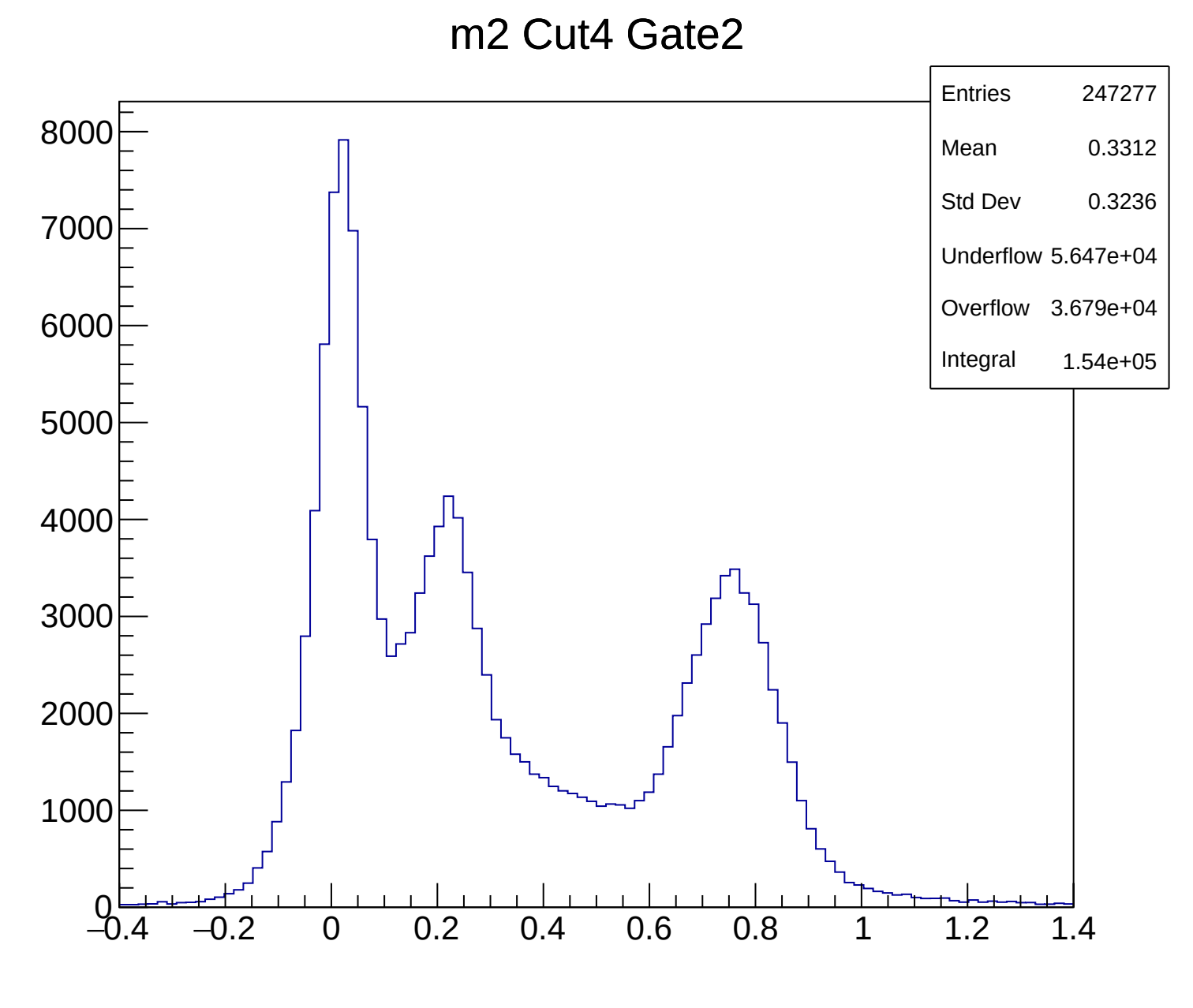

pKurama Cut3 Gate3
Entries 417597
Mean 0.8393
Std Dev 0.2518
Underflow 0
Overflow 3.048e+04
Integral 3.871e+05
12000
10000
8000
6000
4000
2000
0
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6

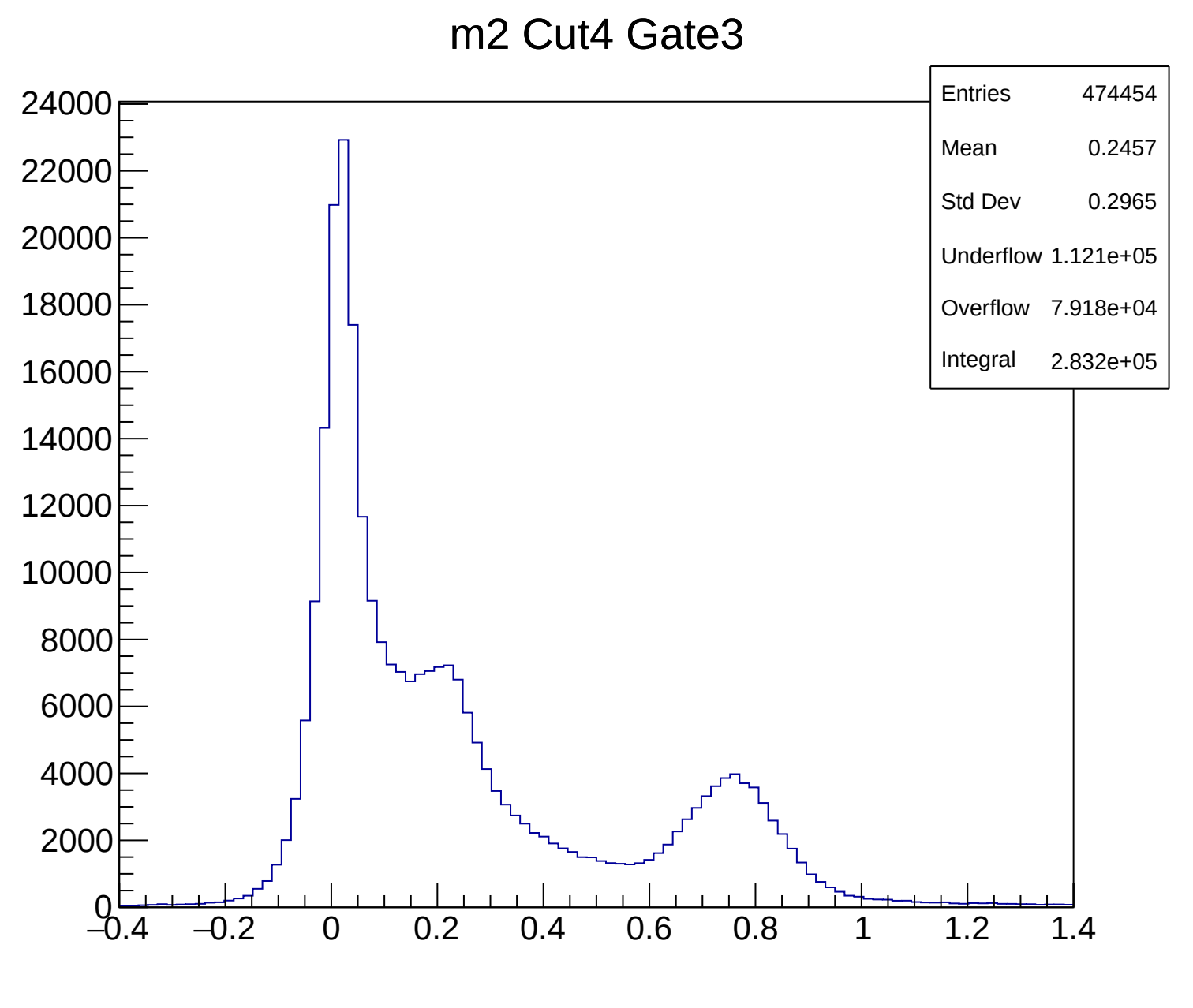

m2 Cut1-2 Gate1
Entries 1720221
Mean 0.4331
Std Dev 0.3952
Underflow 4.205e+05
Overflow 3.796e+05
Integral 9.2e+05
50000
40000
30000
20000
10000
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4

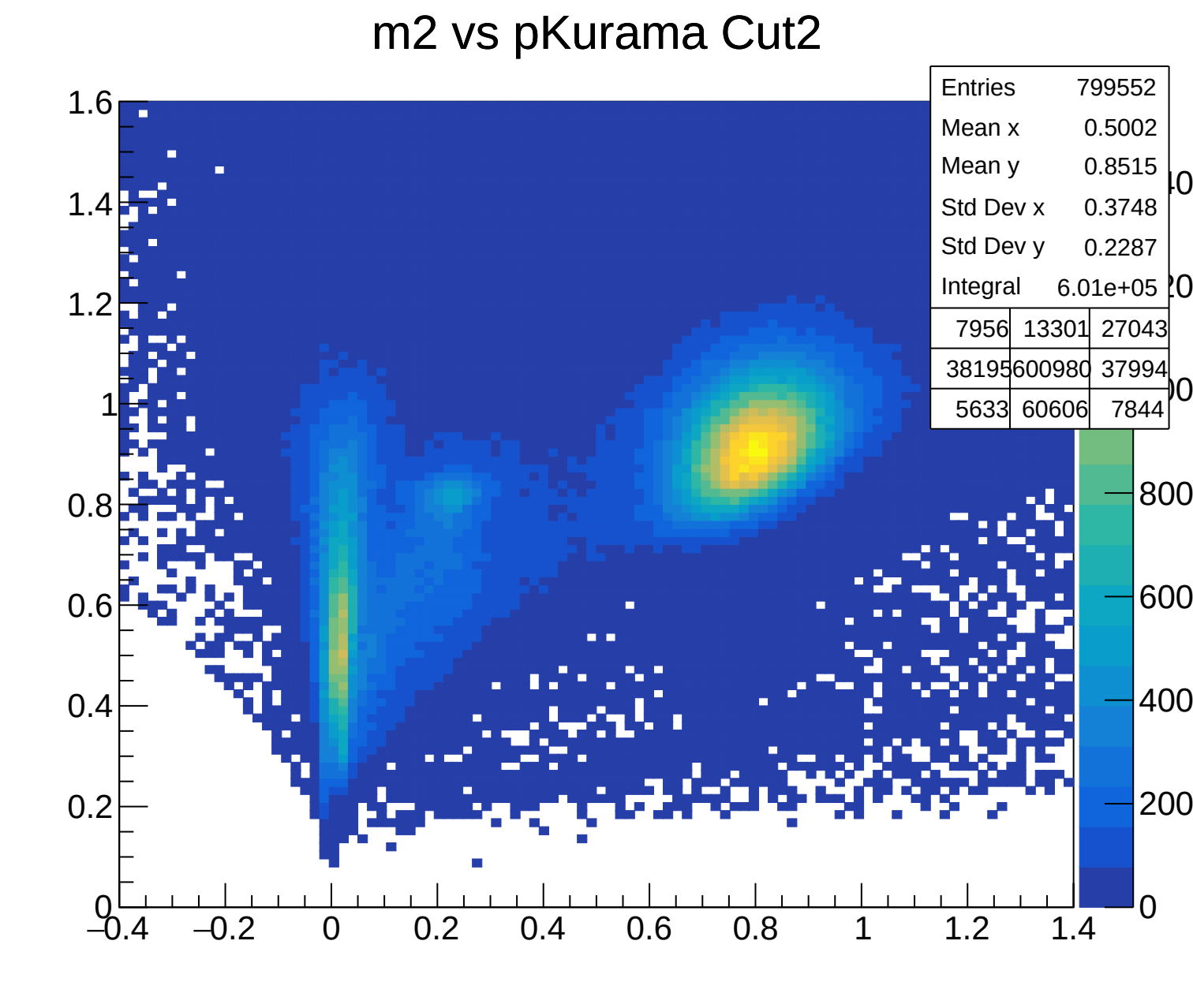

m2 Cut1-2 Gate2
Entries 1205031
Mean 0.3771
Std Dev 0.3901
Underflow 2.953e+05
Overflow 2.633e+05
Integral 6.465e+05
45000
40000
35000
30000
25000
20000
15000
10000
5000
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4

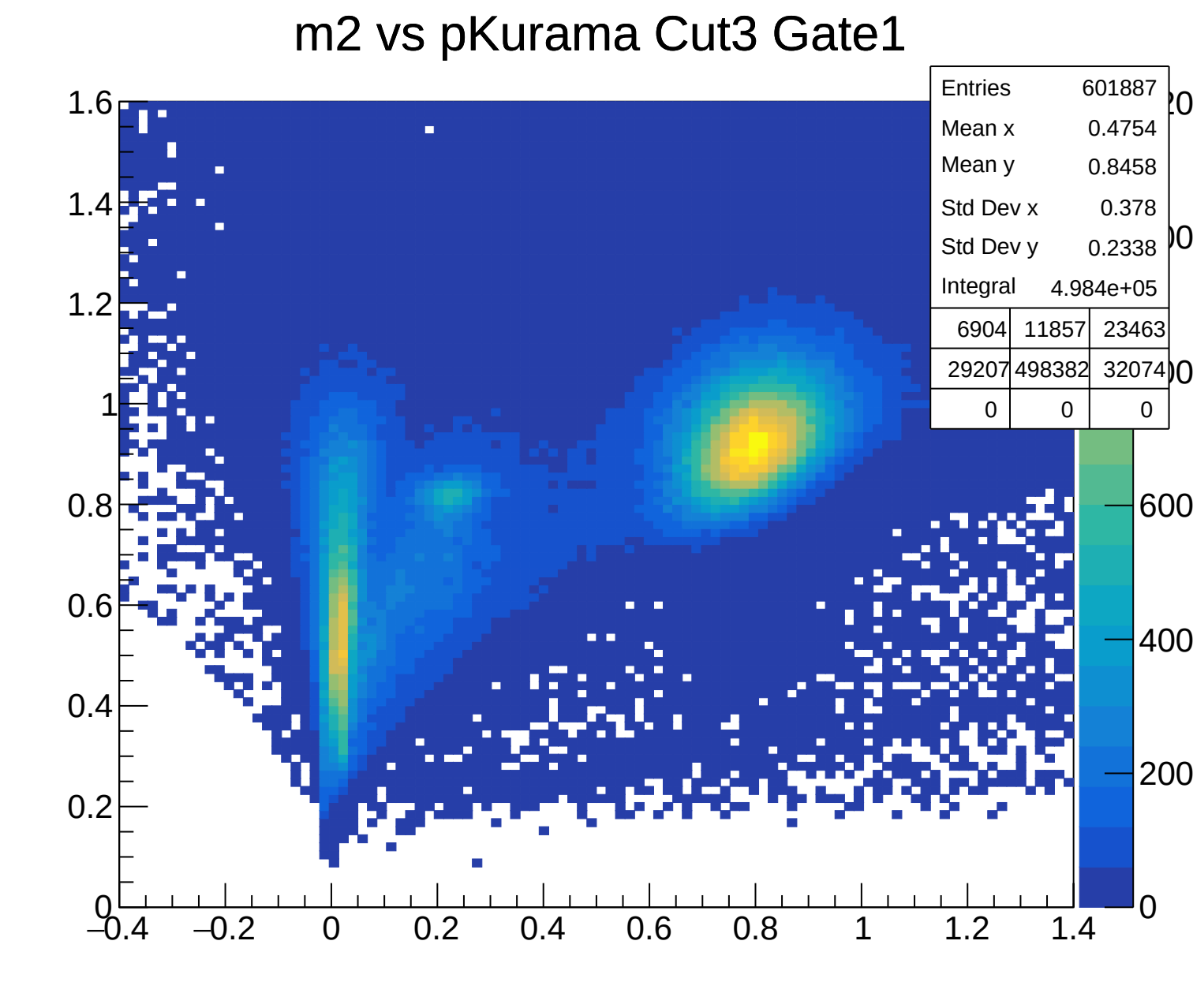

m2 Cut1-2 Gate3
Entries 1249671
Mean 0.3809
Std Dev 0.3908
Underflow 3.07e+05
Overflow 2.775e+05
Integral 6.652e+05
45000
40000
35000
30000
25000
20000
15000
10000
5000
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4

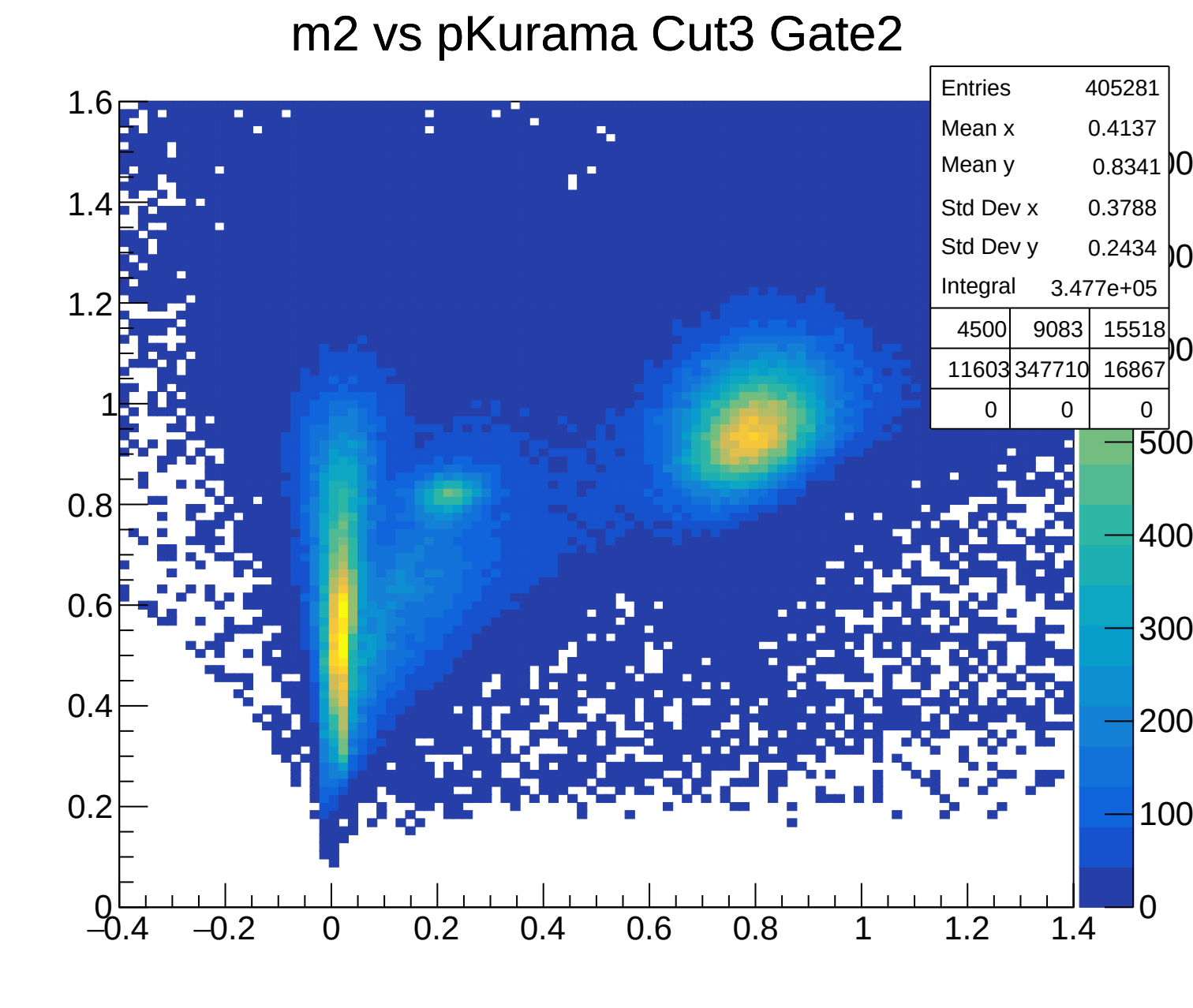

m2 Cut4 Gate1
Entries 385068
Mean 0.43
Std Dev 0.3415
Underflow 8.515e+04
Overflow 5.59e+04
Integral 2.44e+05
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4

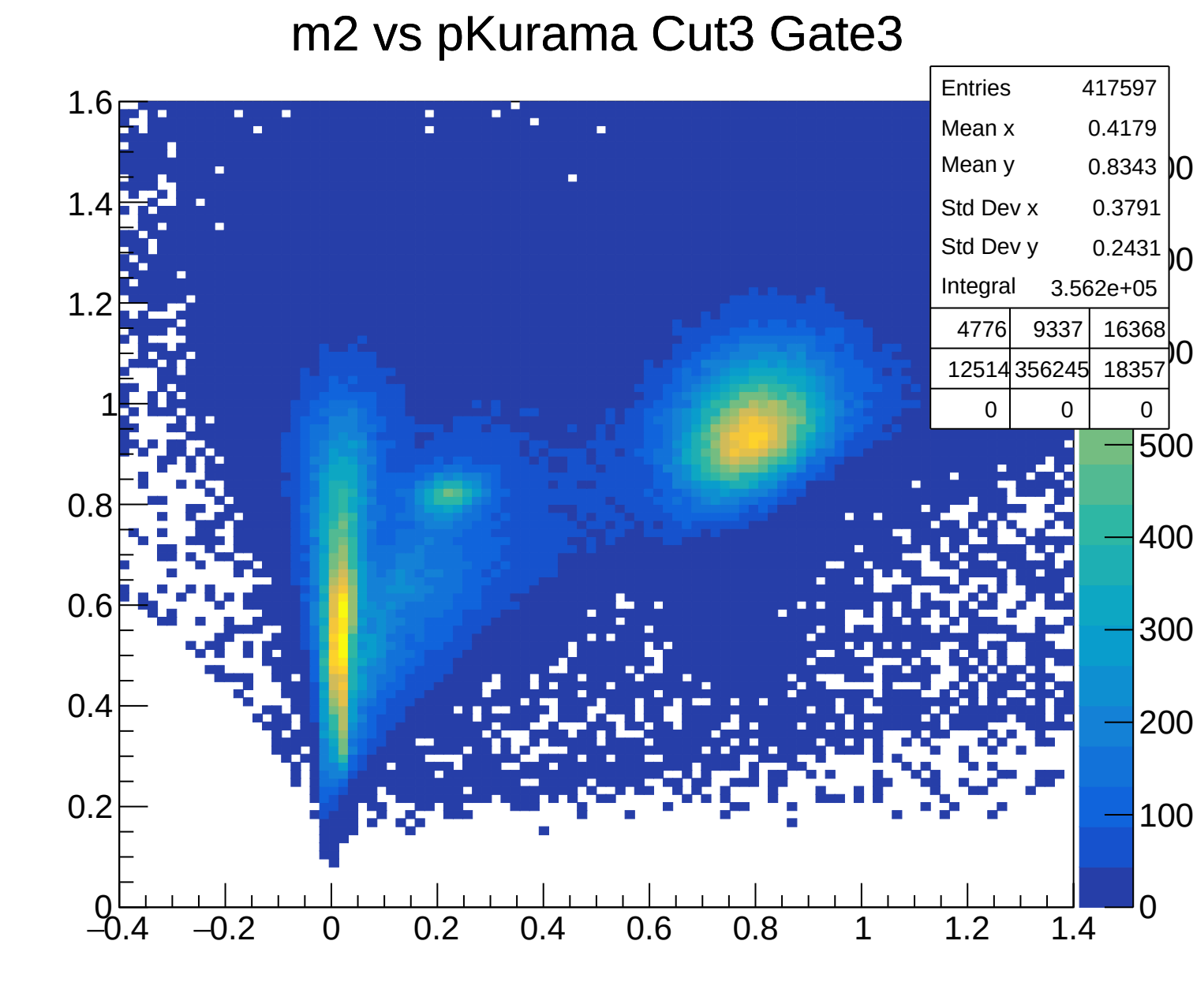

m2 Cut4 Gate2
Entries 247277
Mean 0.3312
Std Dev 0.3236
Underflow 5.647e+04
Overflow 3.679e+04
Integral 1.54e+05
8000
7000
6000
5000
4000
3000
2000
1000
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4

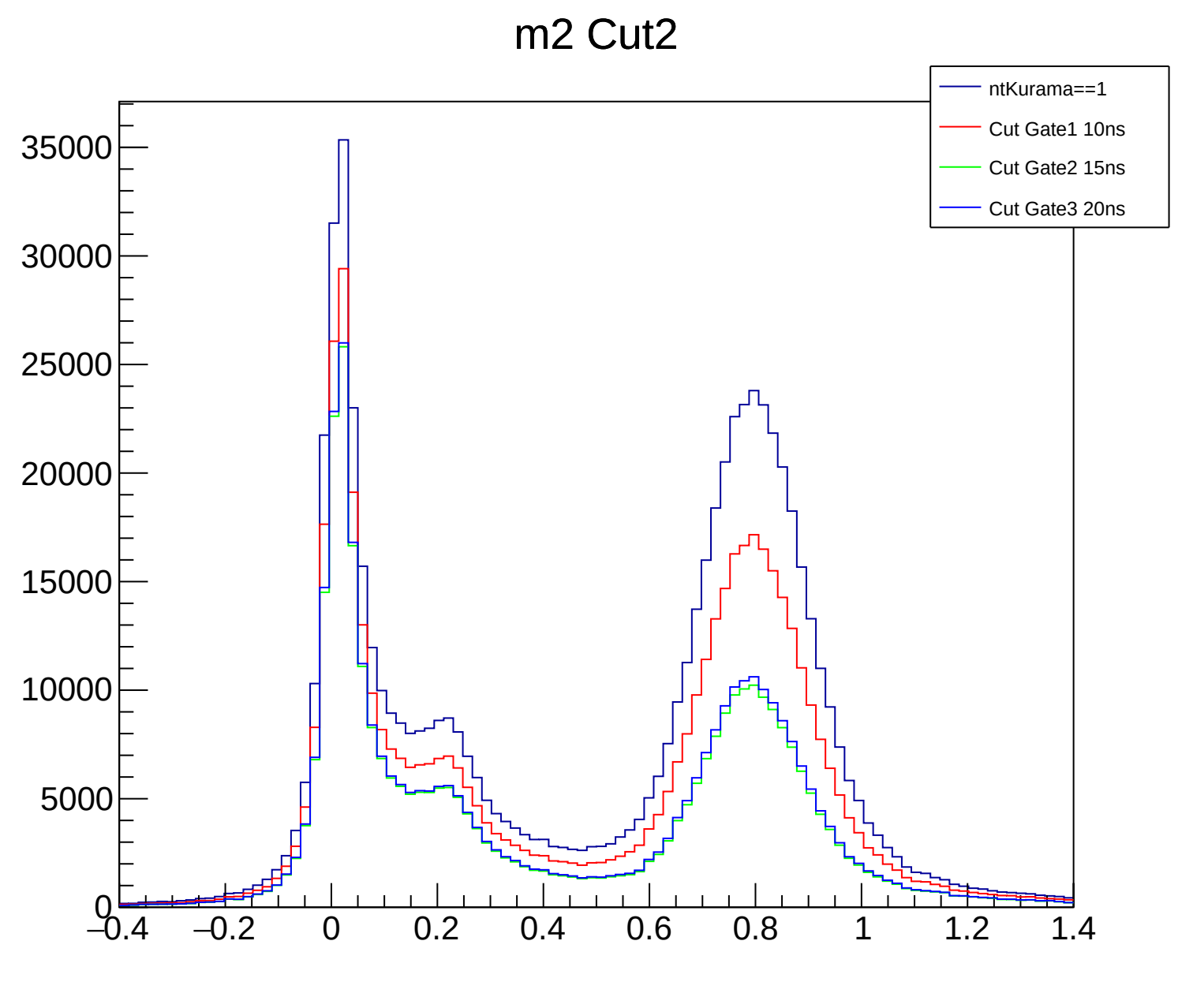

m2 Cut4 Gate3
Entries 474454
Mean 0.2457
Std Dev 0.2965
Underflow 1.121e+05
Overflow 7.918e+04
Integral 2.832e+05
24000
22000
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4

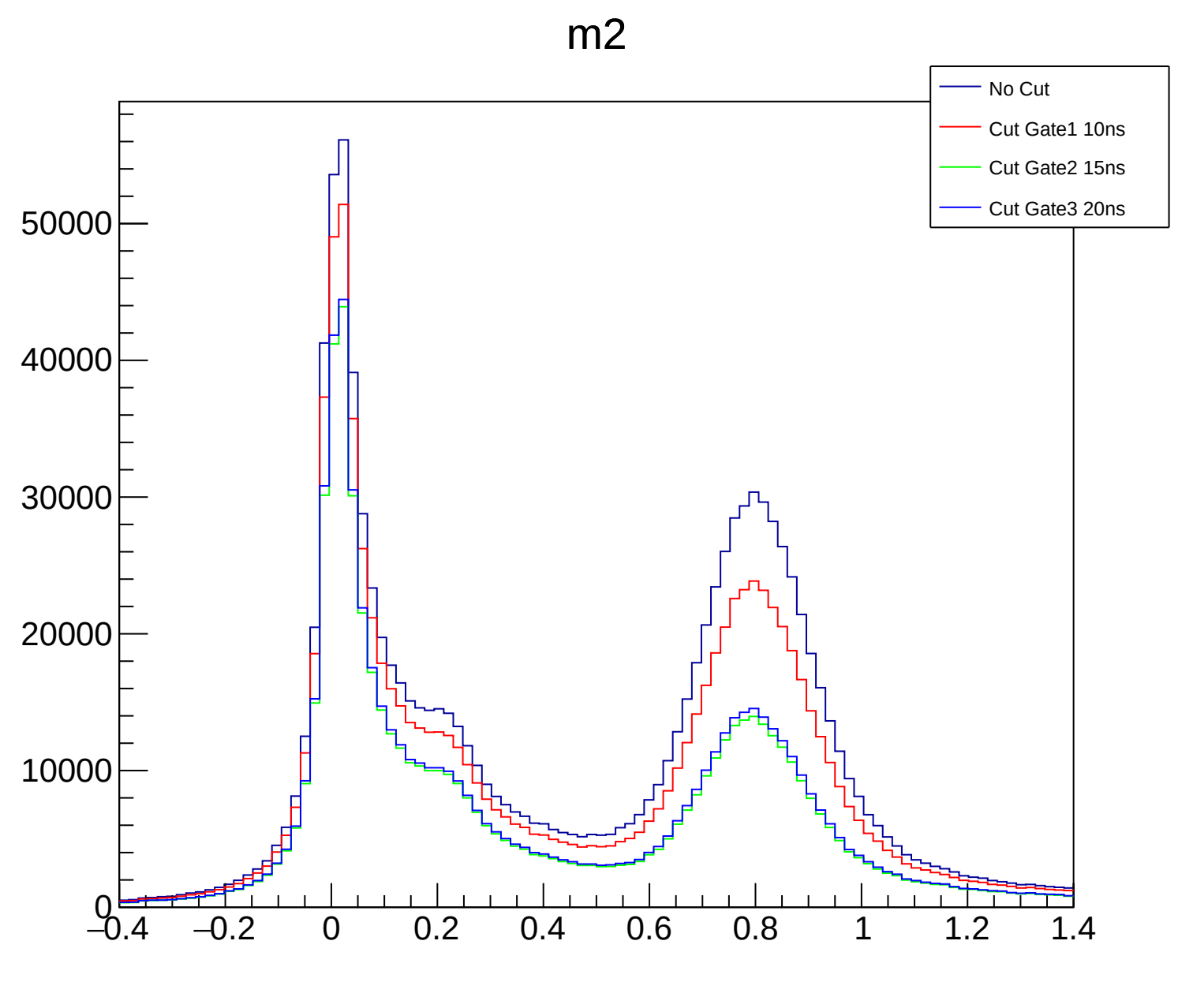

m2 vs pKurama Cut2
Entries 799552
Mean x 0.5002
Mean y 0.8515
Std Dev x 0.3748
Std Dev y 0.2287
Integral 6.01e+05
7956 13301 27043
38195 600980 37994
5633 60606 7844
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4
800
600
400
200
0

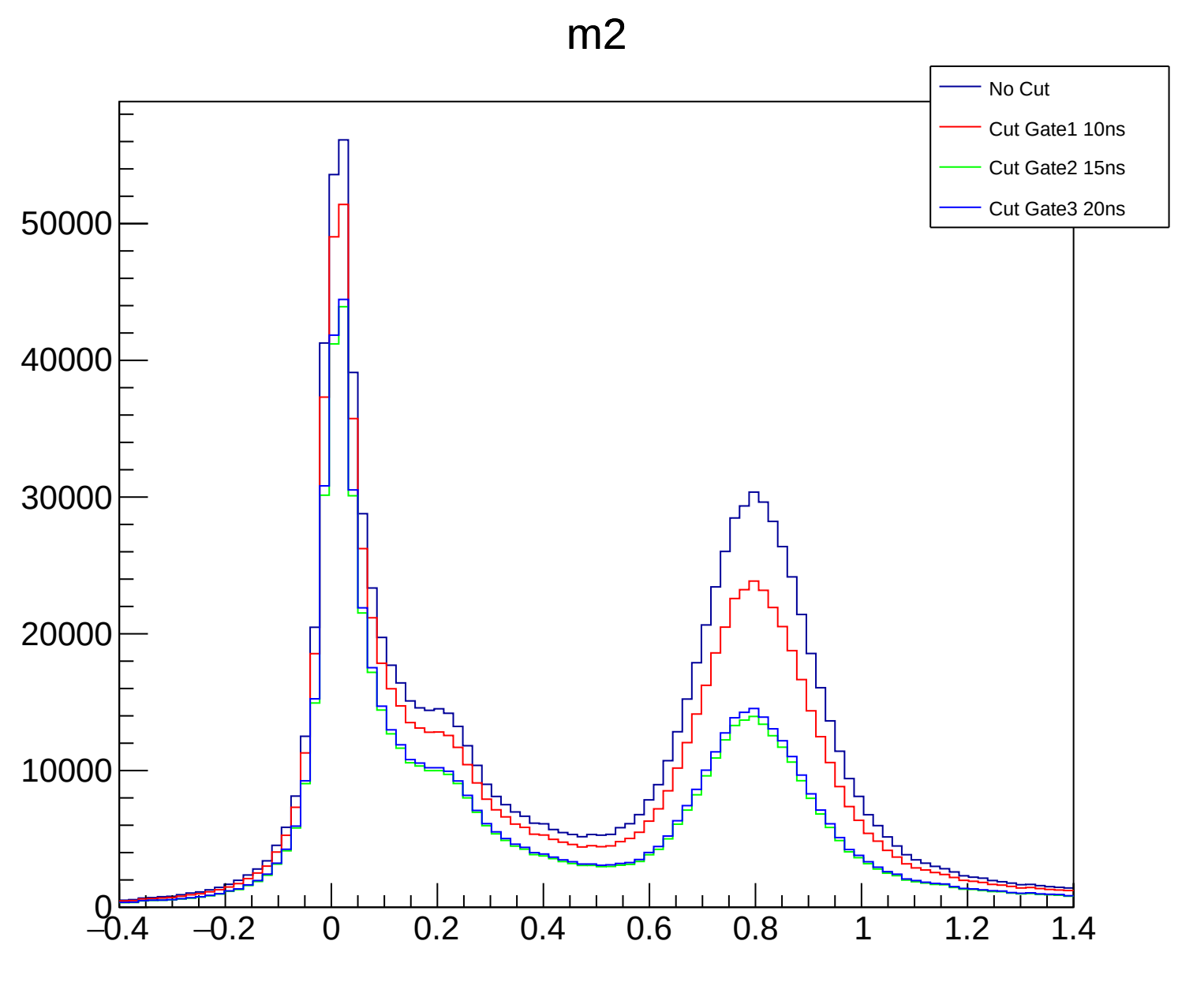

m2 vs pKurama Cut3 Gate1
Entries 601887
Mean x 0.4754
Mean y 0.8458
Std Dev x 0.378
Std Dev y 0.2338
Integral 4.984e+05
6904 11857 23463
29207 498382 32074
0 0 0
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4
600
400
200
0

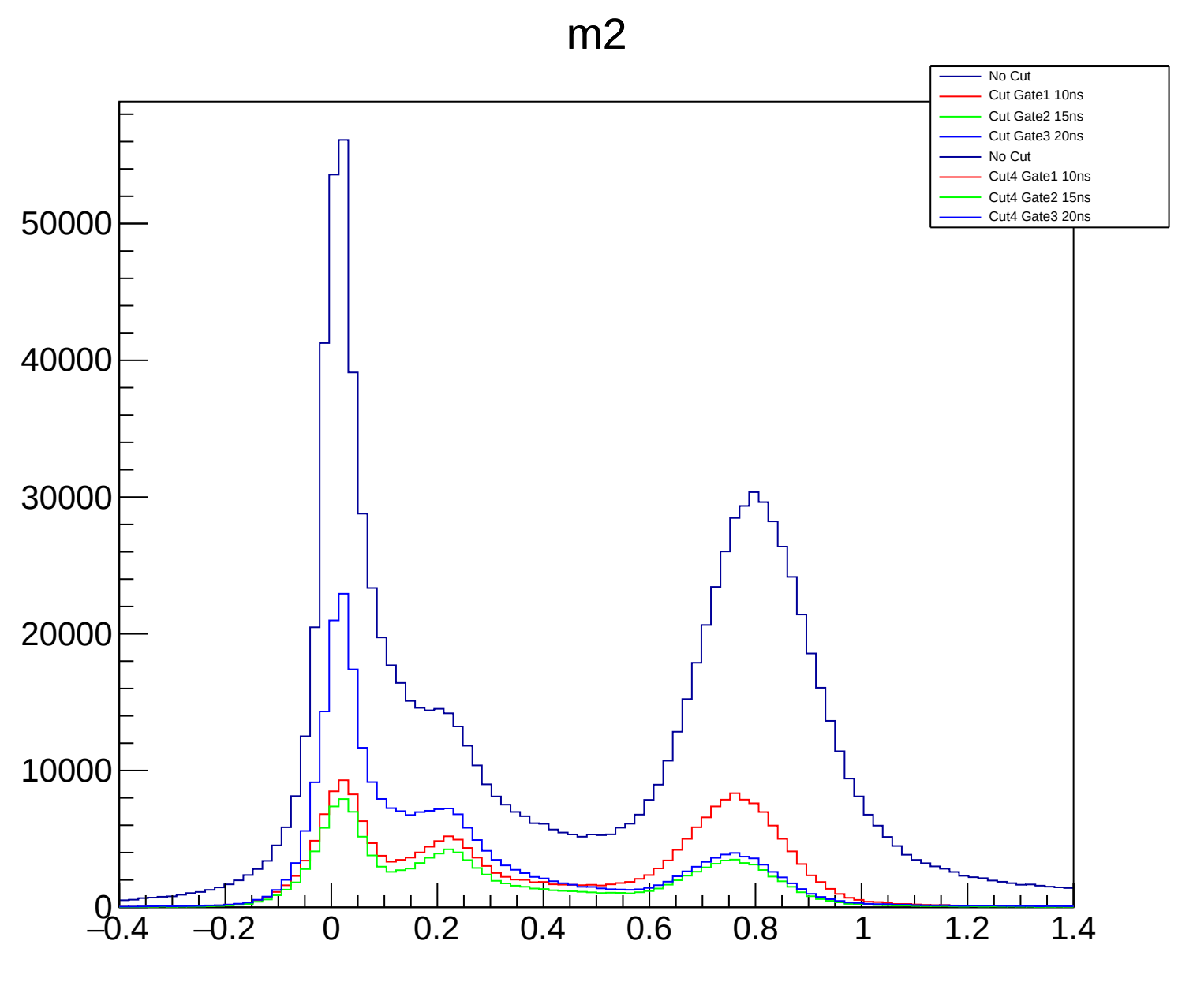

m2 vs pKurama Cut3 Gate2
Entries 405281
Mean x 0.4137
Mean y 0.8341
Std Dev x 0.3788
Std Dev y 0.2434
Integral 3.477e+05
4500 9083 15518
11603 347710 16867
0 0 0
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4
500
400
300
200
100
0

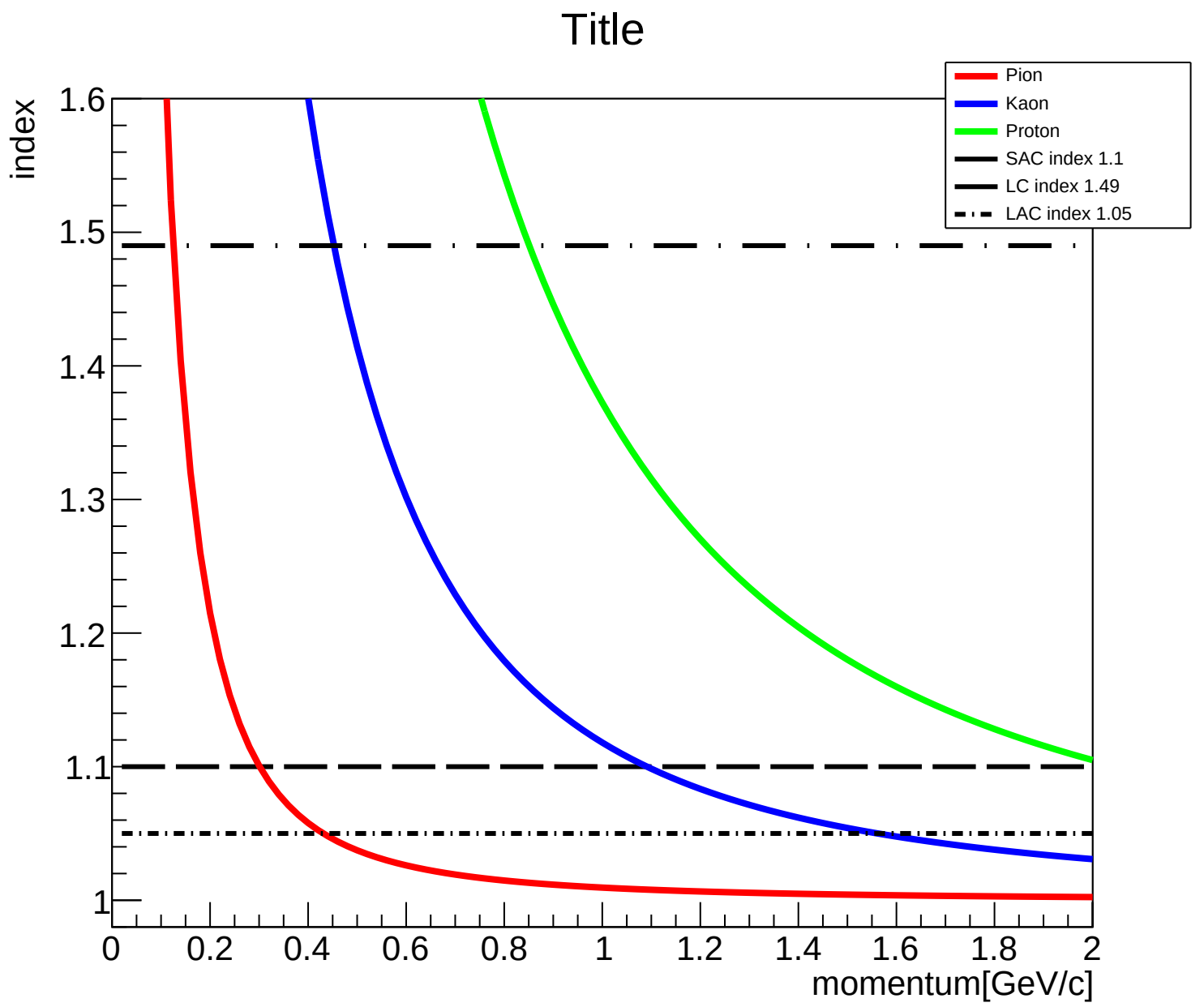

m2 vs pKurama Cut3 Gate3
Entries 417597
Mean x 0.4179
Mean y 0.8343
Std Dev x 0.3791
Std Dev y 0.2431
Integral 3.562e+05
4776 9337 16368
12514 356245 18357
0 0 0
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4
500
400
300
200
100
0

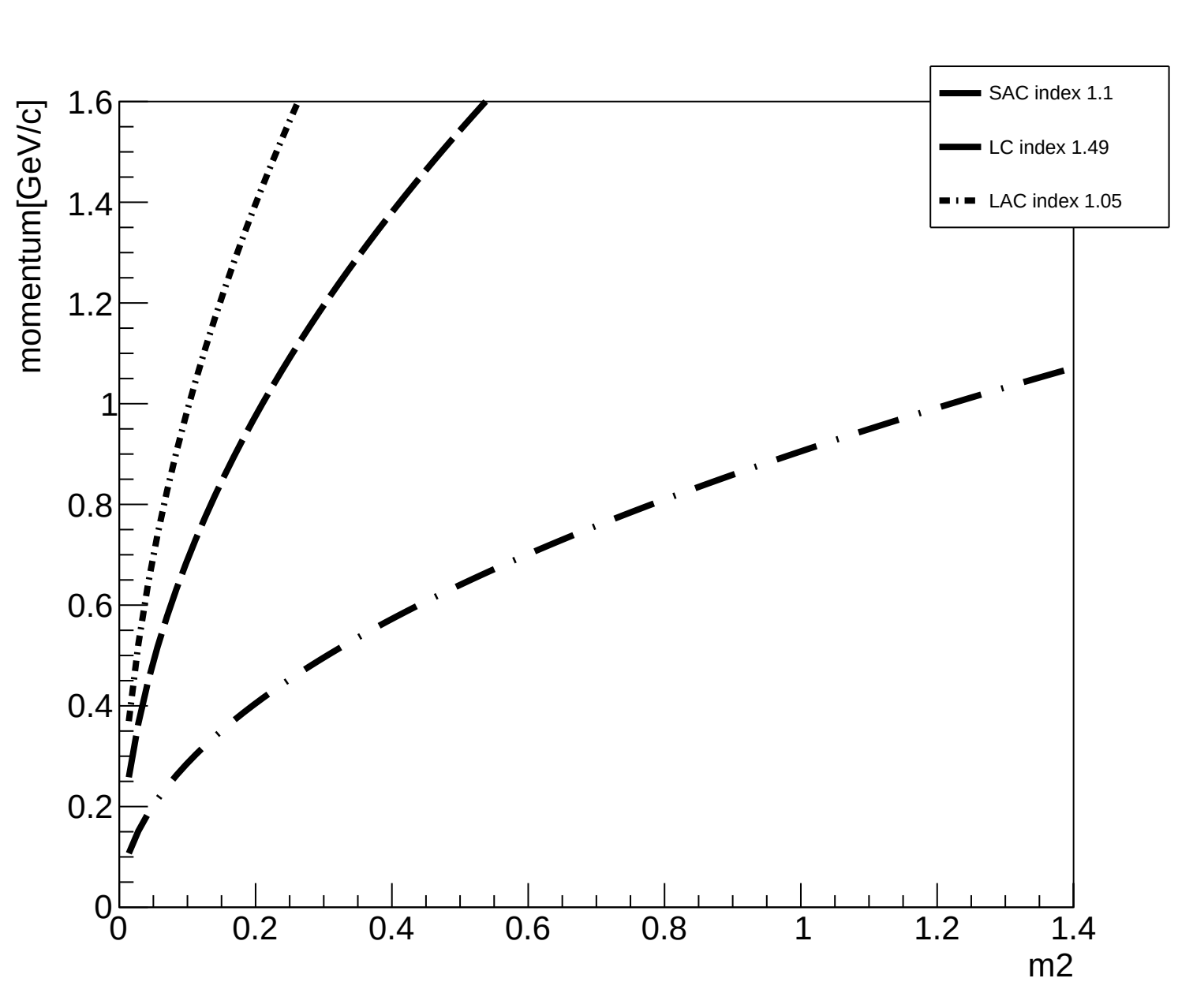

m2 Cut2
ntKurama==1
Cut Gate1 10ns
Cut Gate2 15ns
Cut Gate3 20ns
35000
30000
25000
20000
15000
10000
5000
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4

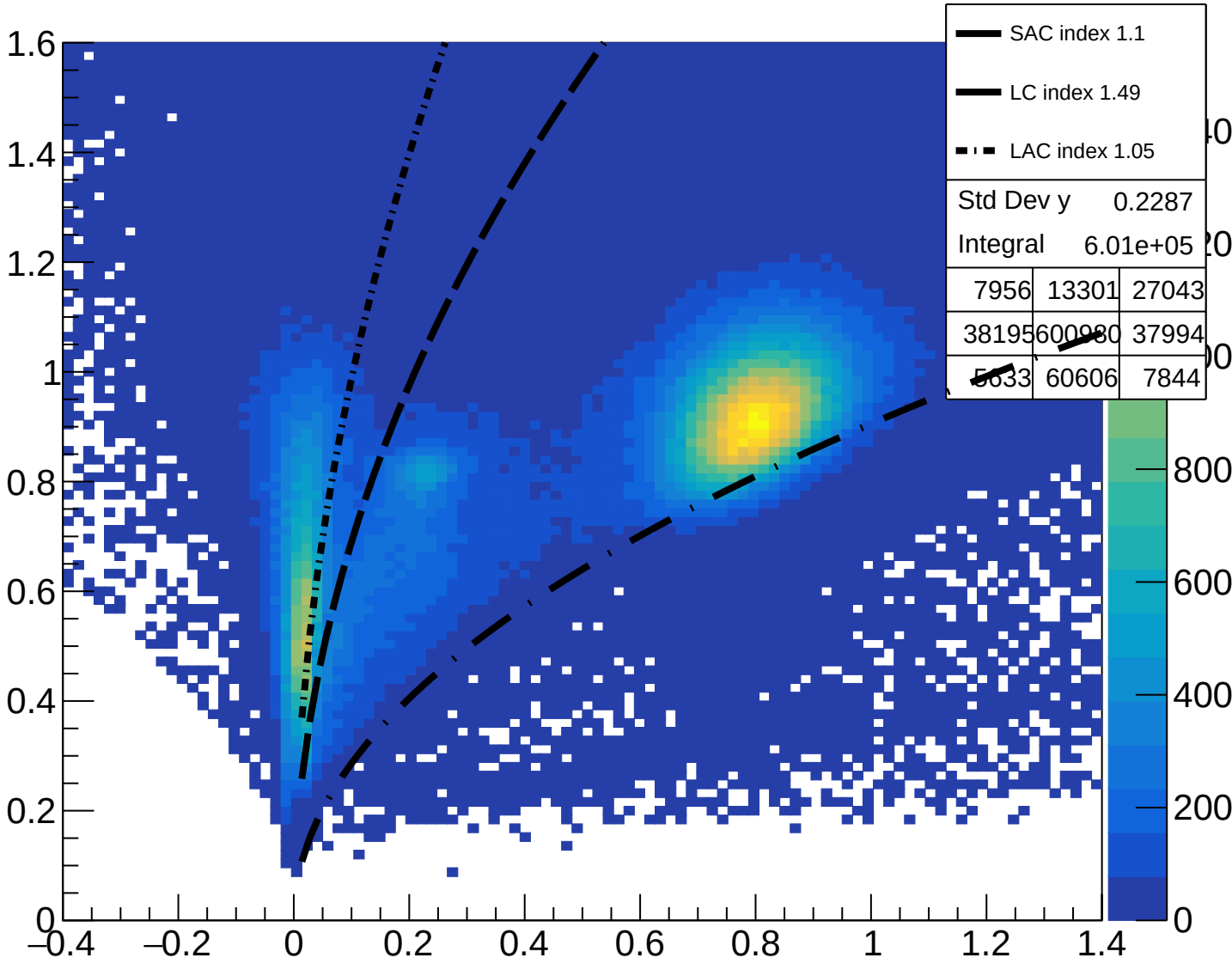

m2
No Cut
Cut Gate1 10ns
Cut Gate2 15ns
Cut Gate3 20ns
50000
40000
30000
20000
10000
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4

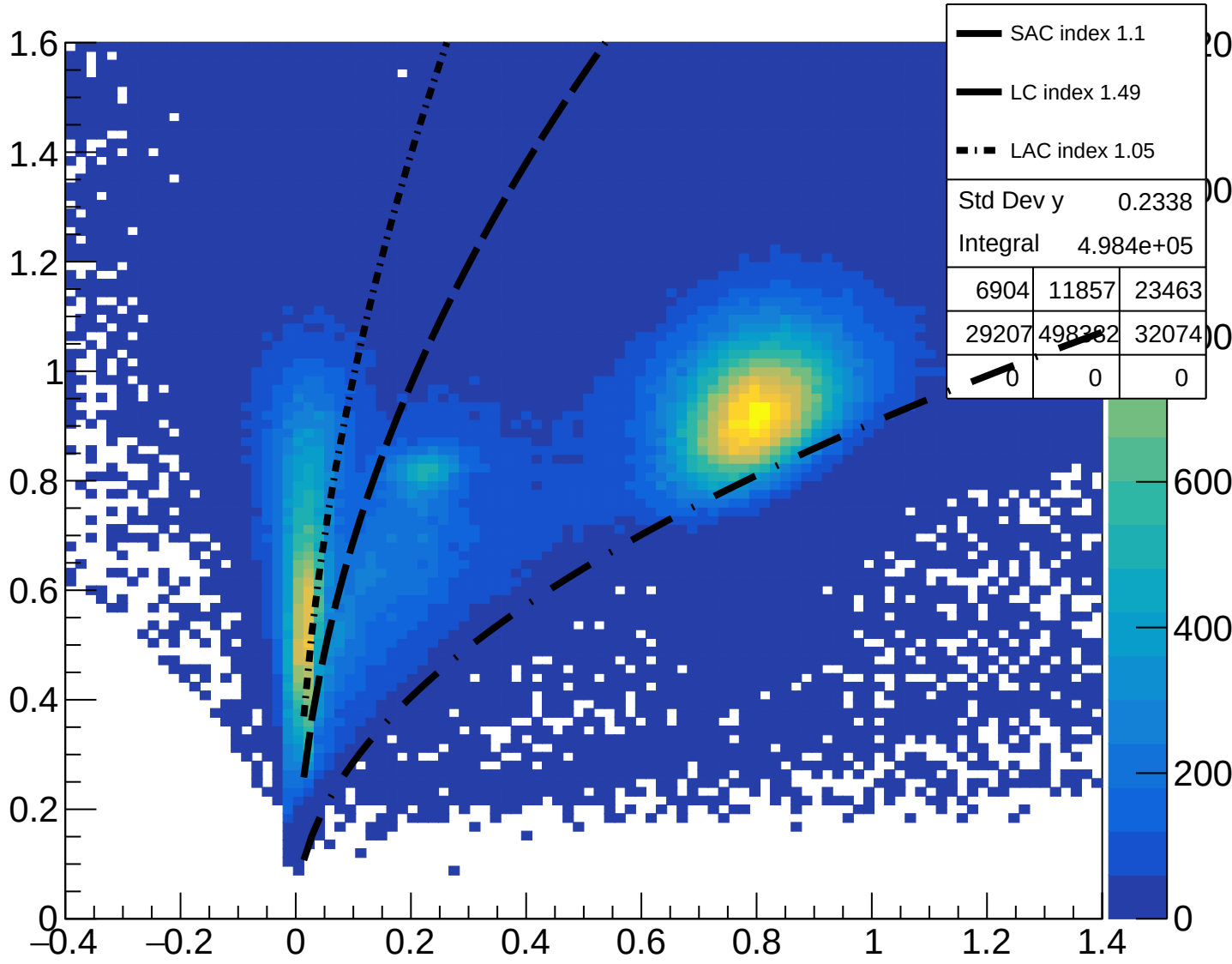

m2
No Cut
Cut Gate1 10ns
Cut Gate2 15ns
Cut Gate3 20ns
50000
40000
30000
20000
10000
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4

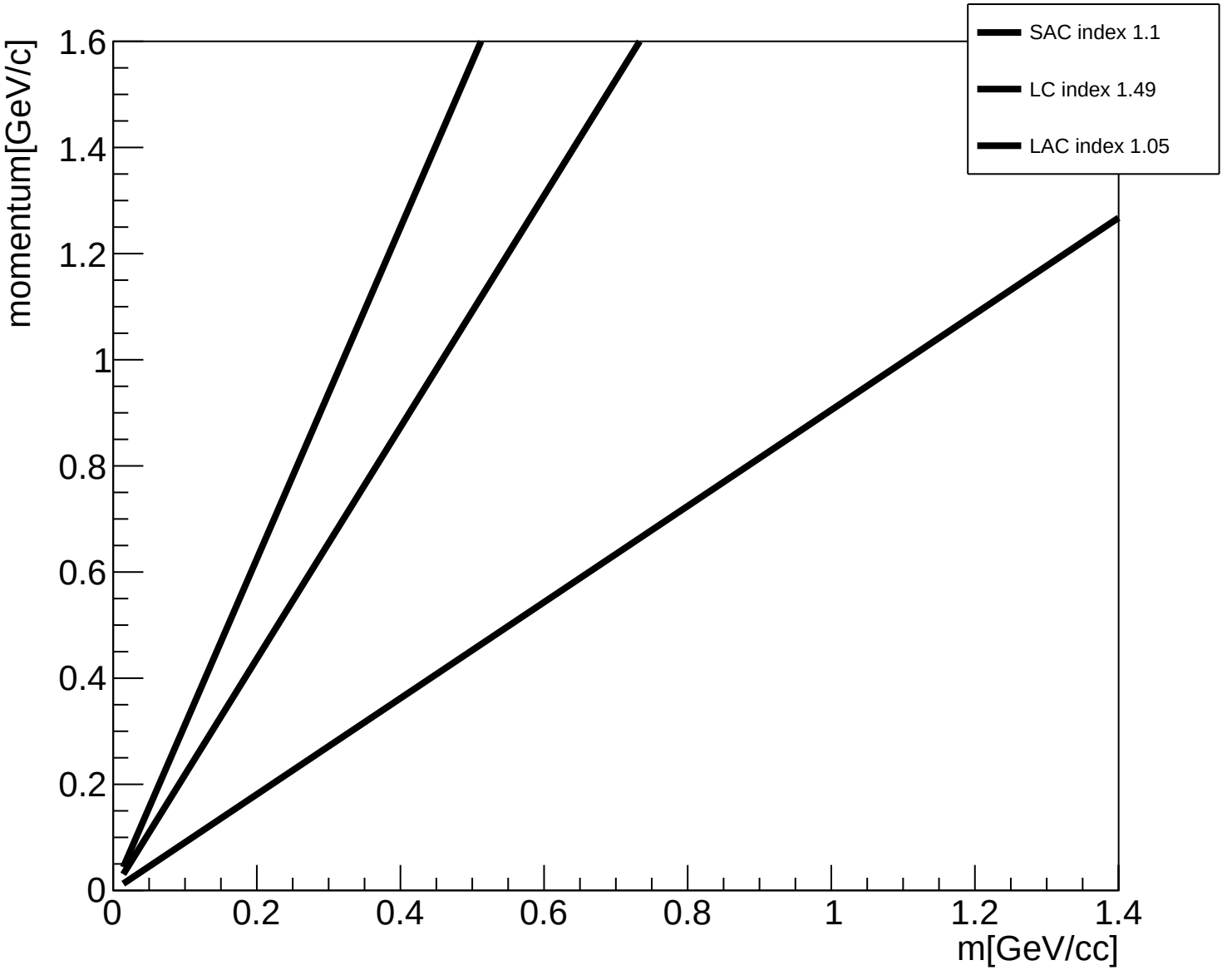

m2
No Cut
Cut Gate1 10ns
Cut Gate2 15ns
Cut Gate3 20ns
No Cut
Cut4 Gate1 10ns
Cut4 Gate2 15ns
Cut4 Gate3 20ns
50000
40000
30000
20000
10000
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4


Title
index
momentum[GeV/c]
Pion
Kaon
Proton
SAC index 1.1
LC index 1.49
LAC index 1.05
1.6
1.5
1.4
1.3
1.2
1.1
1
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2


SAC index 1.1
LC index 1.49
LAC index 1.05
momentum[GeV/c]
m2
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6


SAC index 1.1
LC index 1.49
LAC index 1.05
Std Dev y 0.2287
Integral 6.01e+05
7956 13301 27043
38195600980 37994
5633 60606 7844
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4
800
600
400
200
0


SAC index 1.1
LC index 1.49
LAC index 1.05
Std Dev y 0.2338
Integral 4.984e+05
6904 11857 23463
29207 498382 32074
0 0 0
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4
600
400
200
0


SAC index 1.1
LC index 1.49
LAC index 1.05
momentum[GeV/c]
m[GeV/cc]
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6