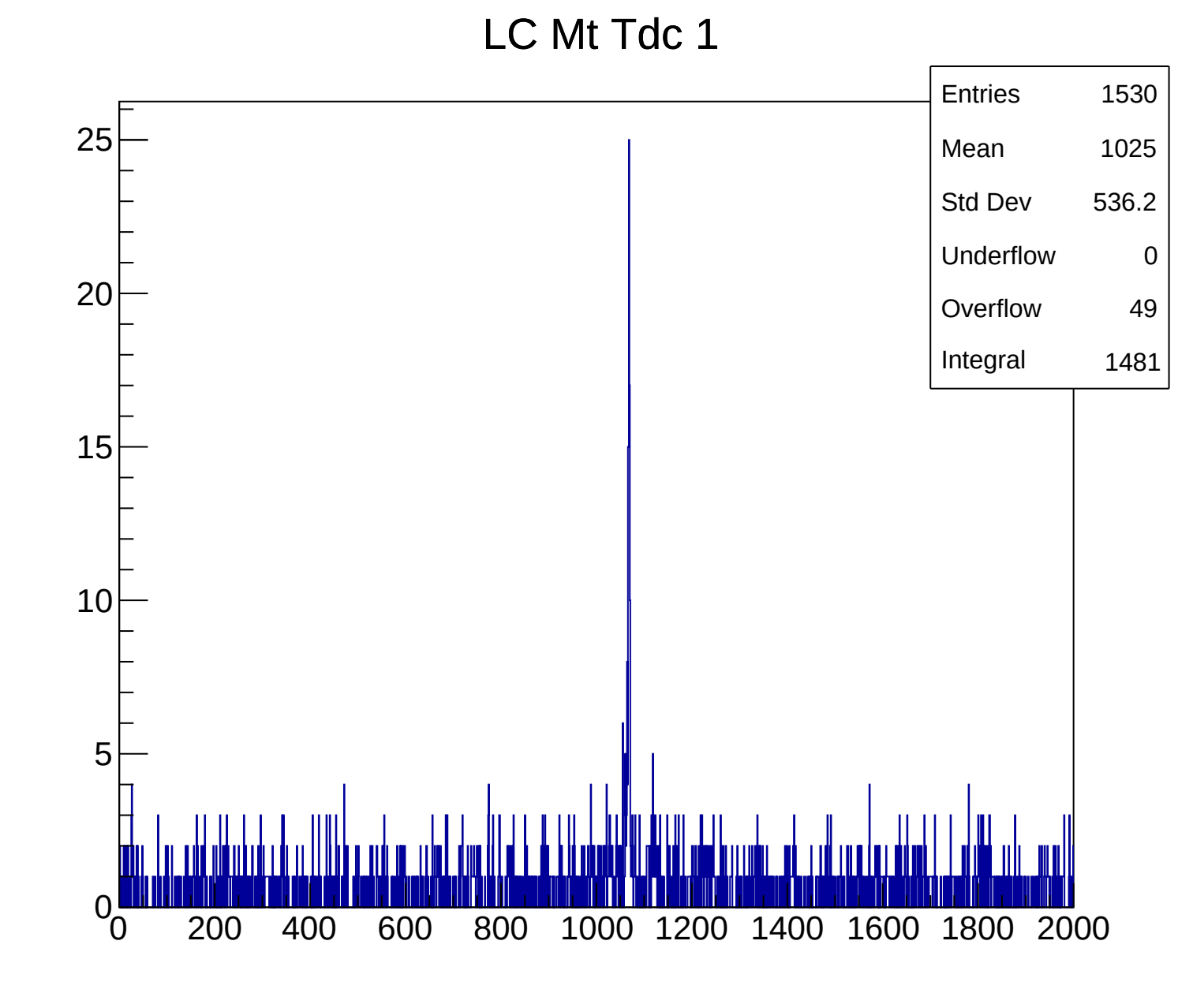
LC Mt Tdc 1
Entries 1530
Mean 1025
Std Dev 536.2
Underflow 0
Overflow 49
Integral 1481
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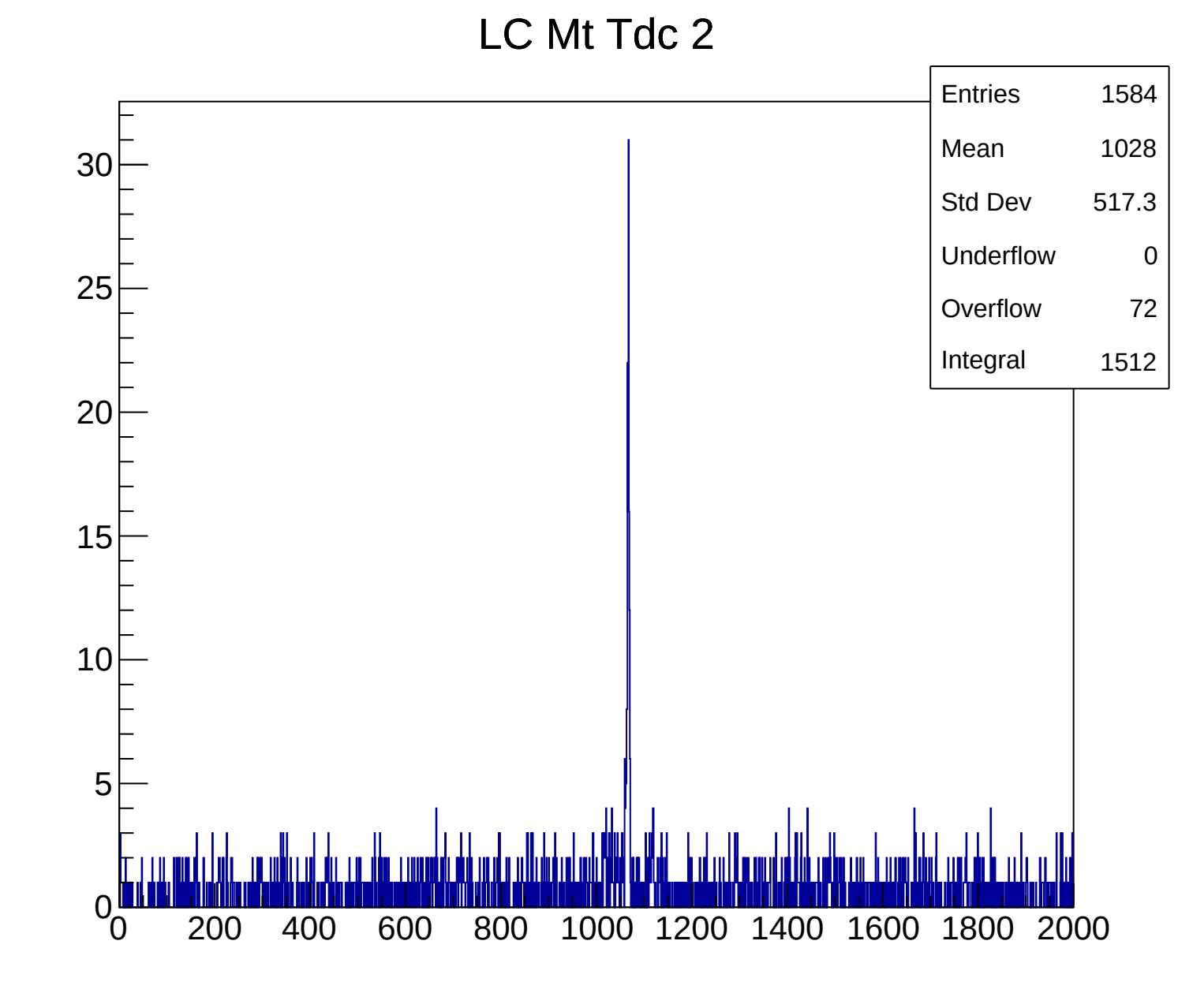
LC Mt Tdc 2
Entries 1584
Mean 1028
Std Dev 517.3
Underflow 0
Overflow 72
Integral 1512
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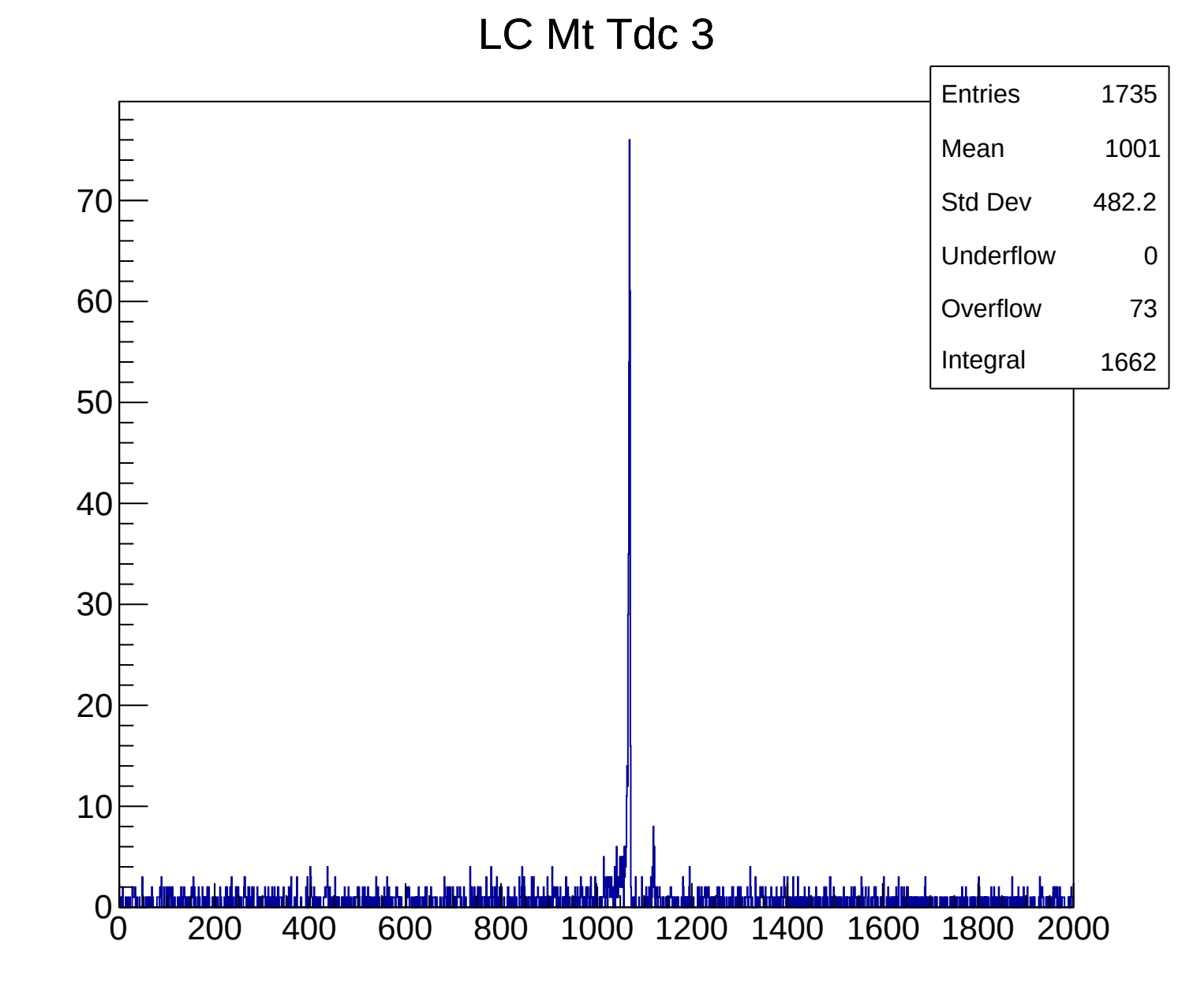
LC Mt Tdc 3
Entries 1735
Mean 1001
Std Dev 482.2
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Integral 1662
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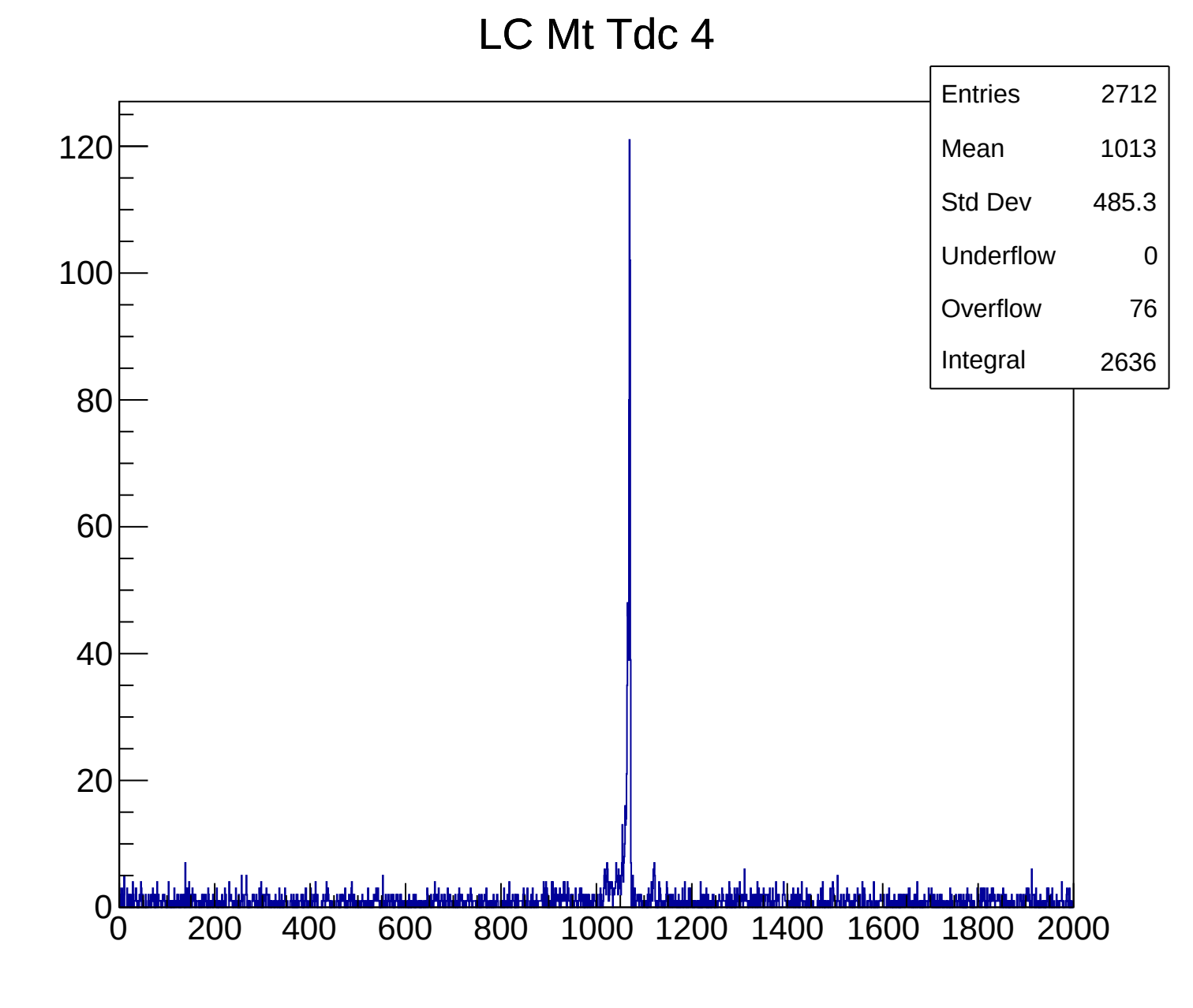
LC Mt Tdc 4
Entries 2712
Mean 1013
Std Dev 485.3
Underflow 0
Overflow 76
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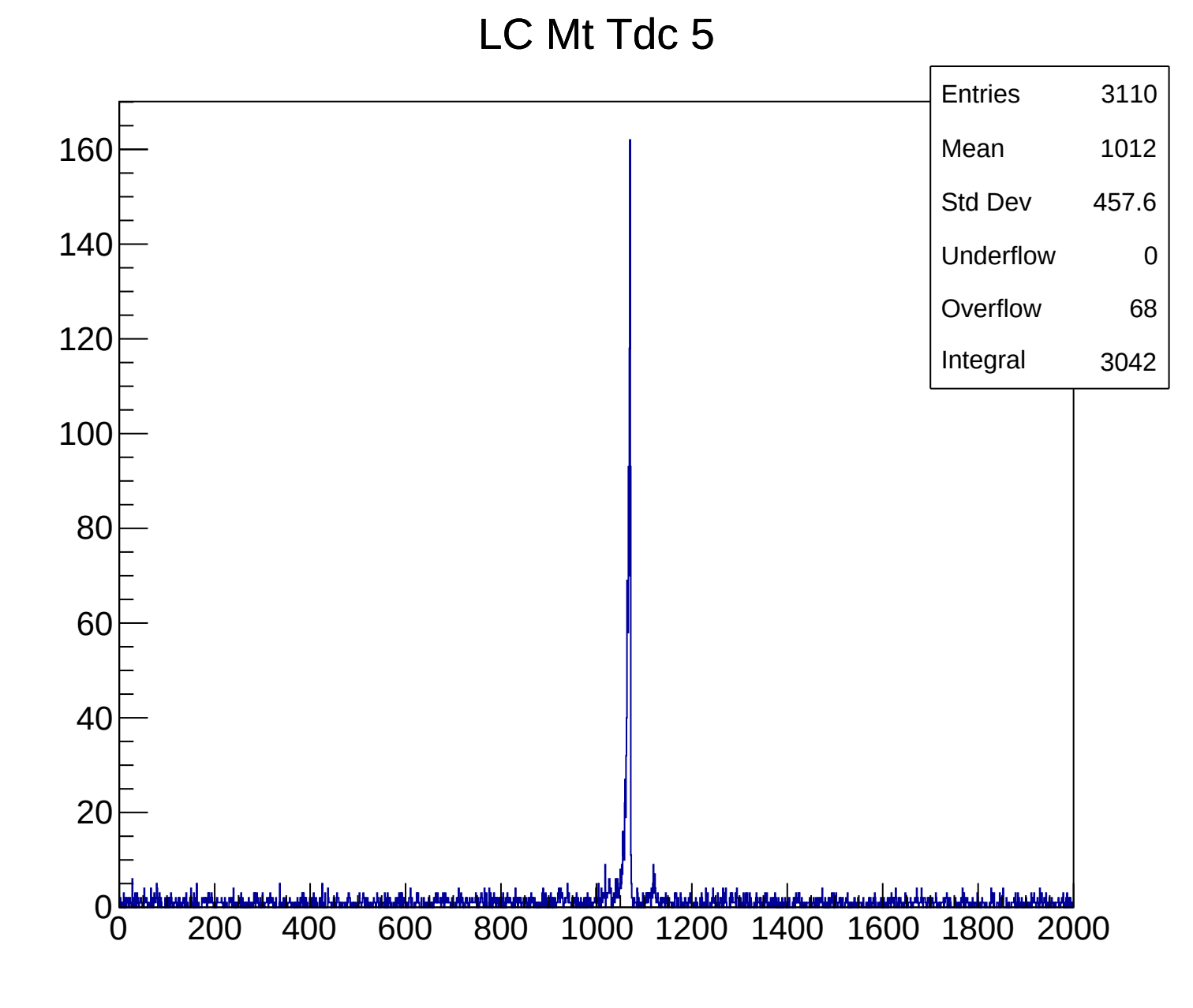
LC Mt Tdc 5
Entries 3110
Mean 1012
Std Dev 457.6
Underflow 0
Overflow 68
Integral 3042
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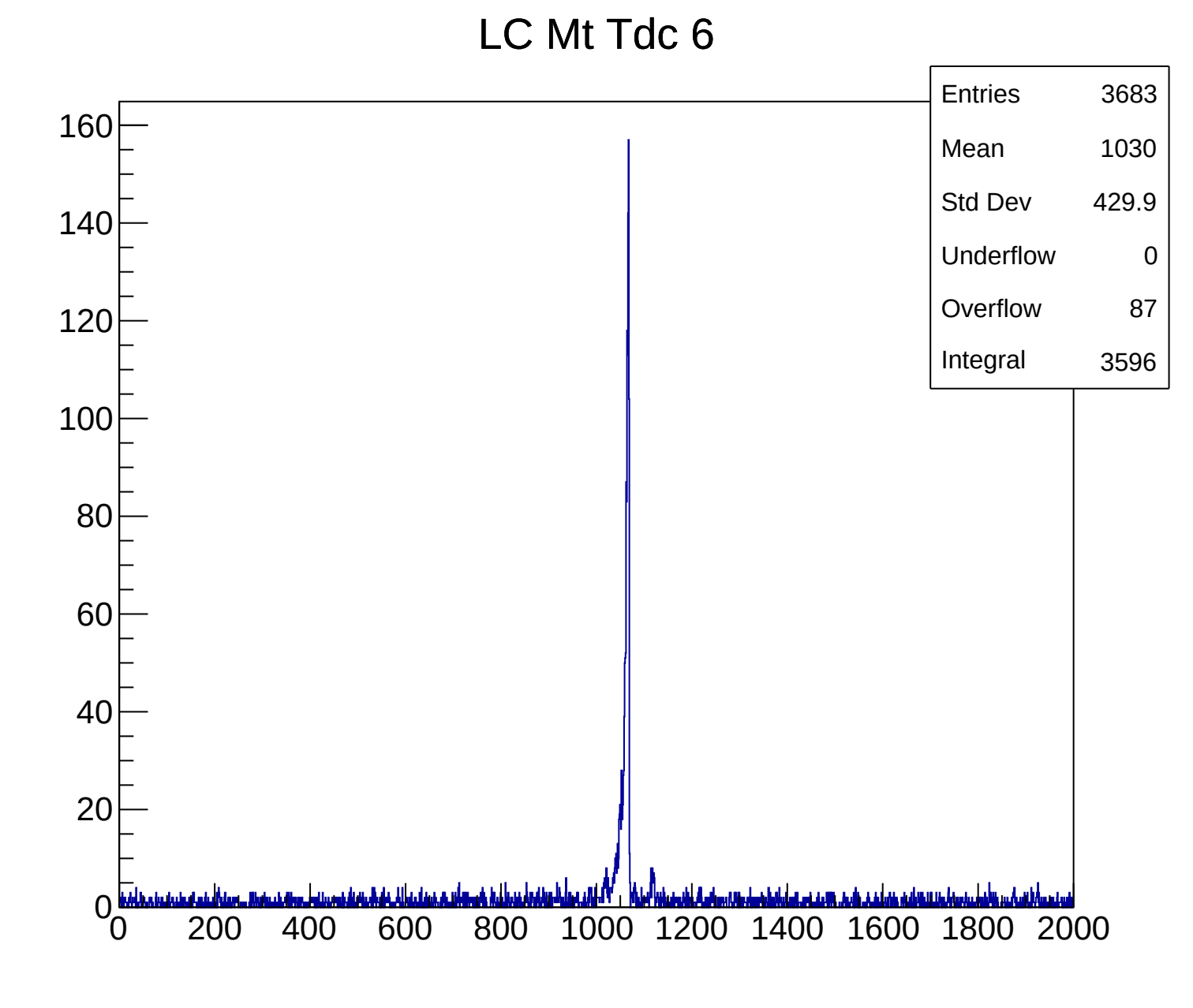
LC Mt Tdc 6
Entries 3683
Mean 1030
Std Dev 429.9
Underflow 0
Overflow 87
Integral 3596
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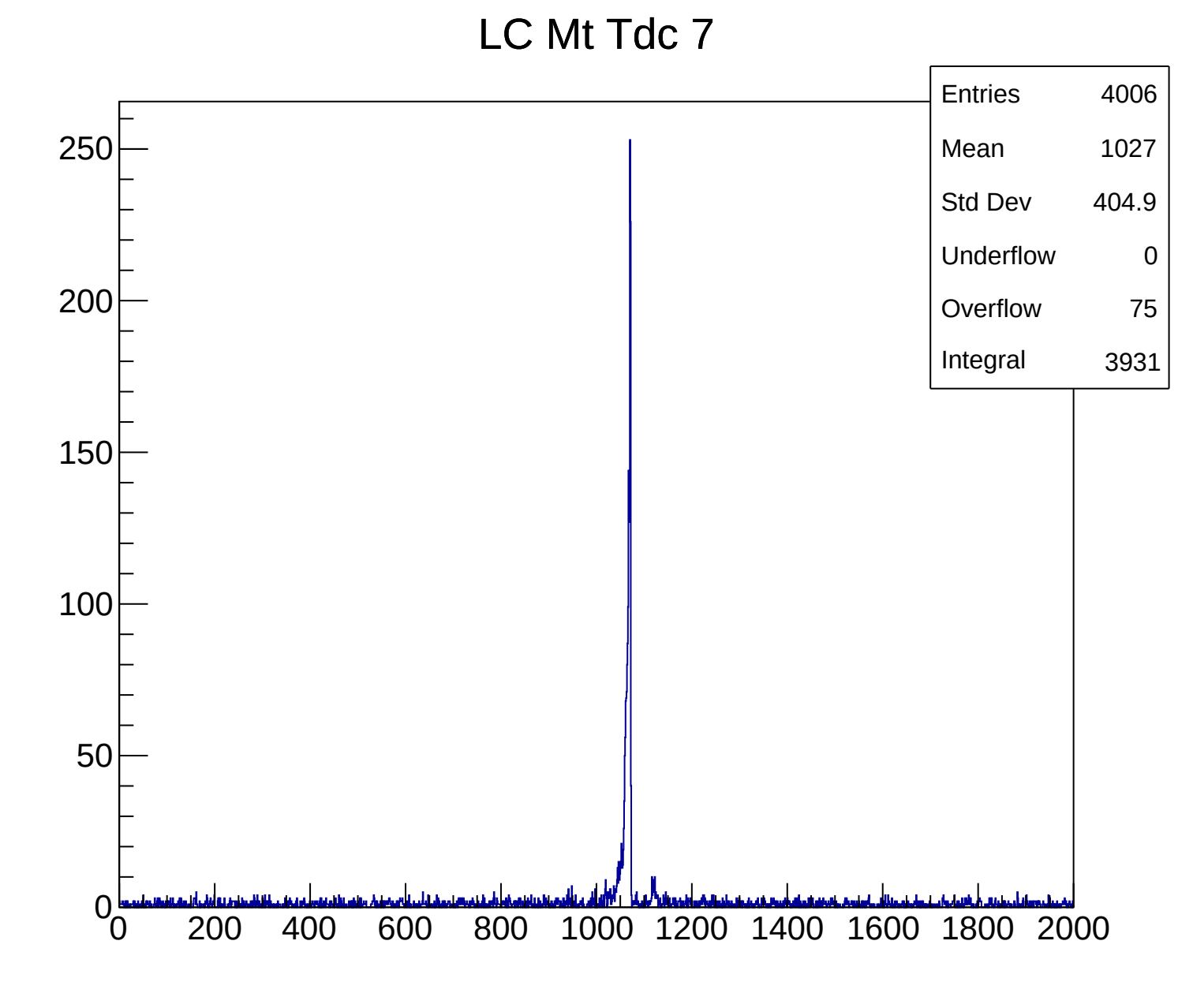
LC Mt Tdc 7
Entries 4006
Mean 1027
Std Dev 404.9
Underflow 0
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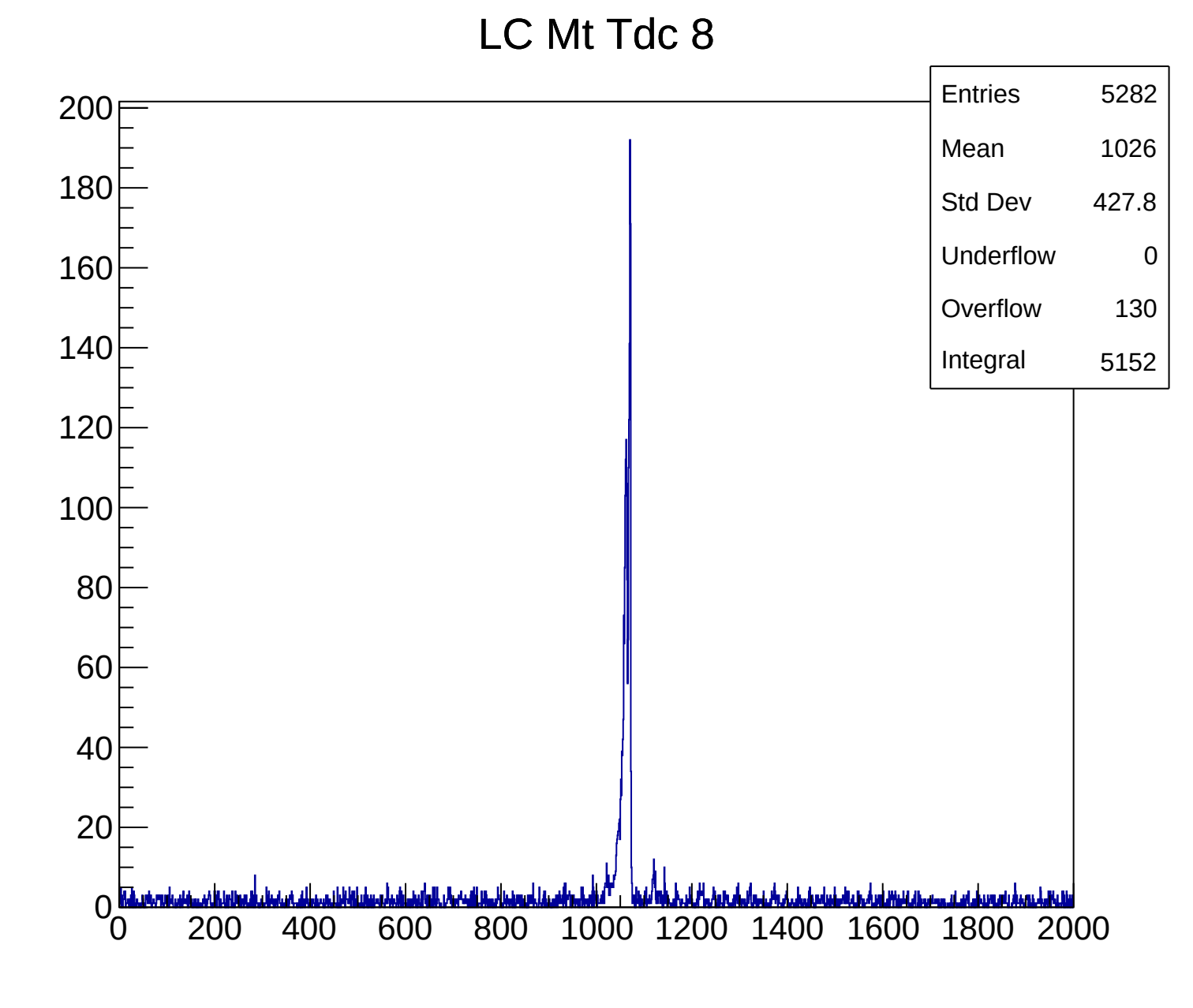
LC Mt Tdc 8
Entries 5282
Mean 1026
Std Dev 427.8
Underflow 0
Overflow 130
Integral 5152
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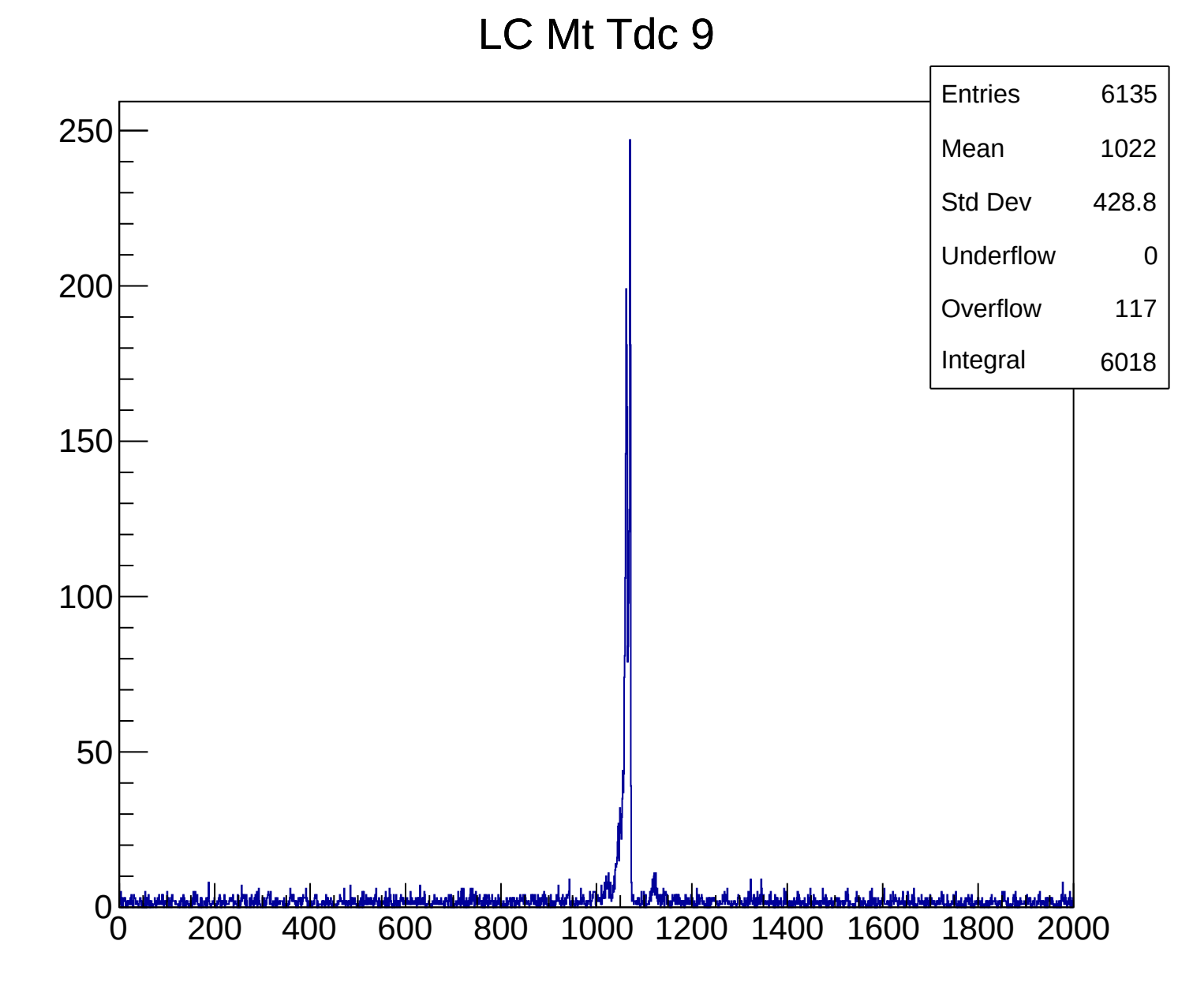
LC Mt Tdc 9
Entries 6135
Mean 1022
Std Dev 428.8
Underflow 0
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Integral 6018
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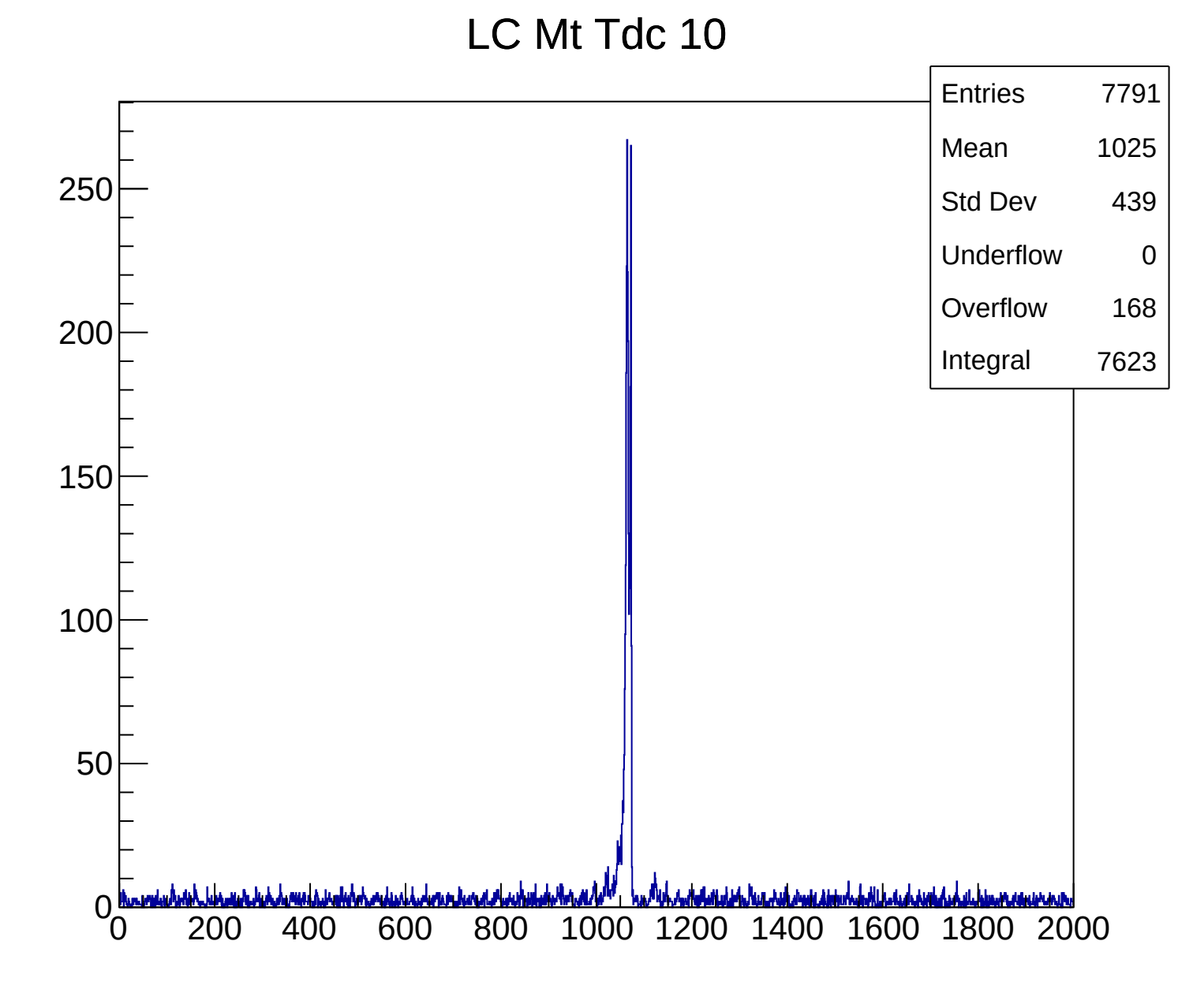
LC Mt Tdc 10
Entries 7791
Mean 1025
Std Dev 439
Underflow 0
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Integral 7623
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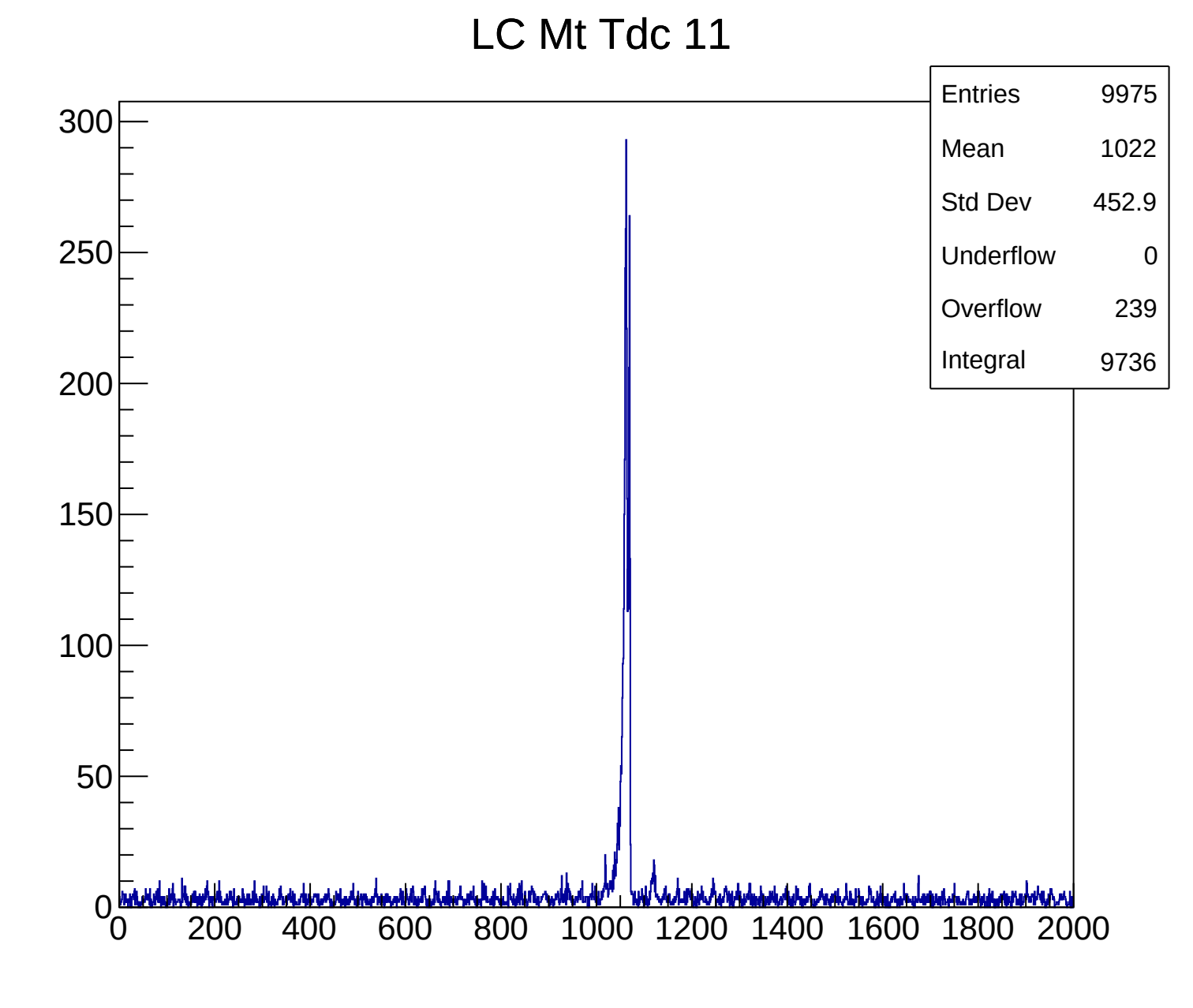
LC Mt Tdc 11
Entries 9975
Mean 1022
Std Dev 452.9
Underflow 0
Overflow 239
Integral 9736
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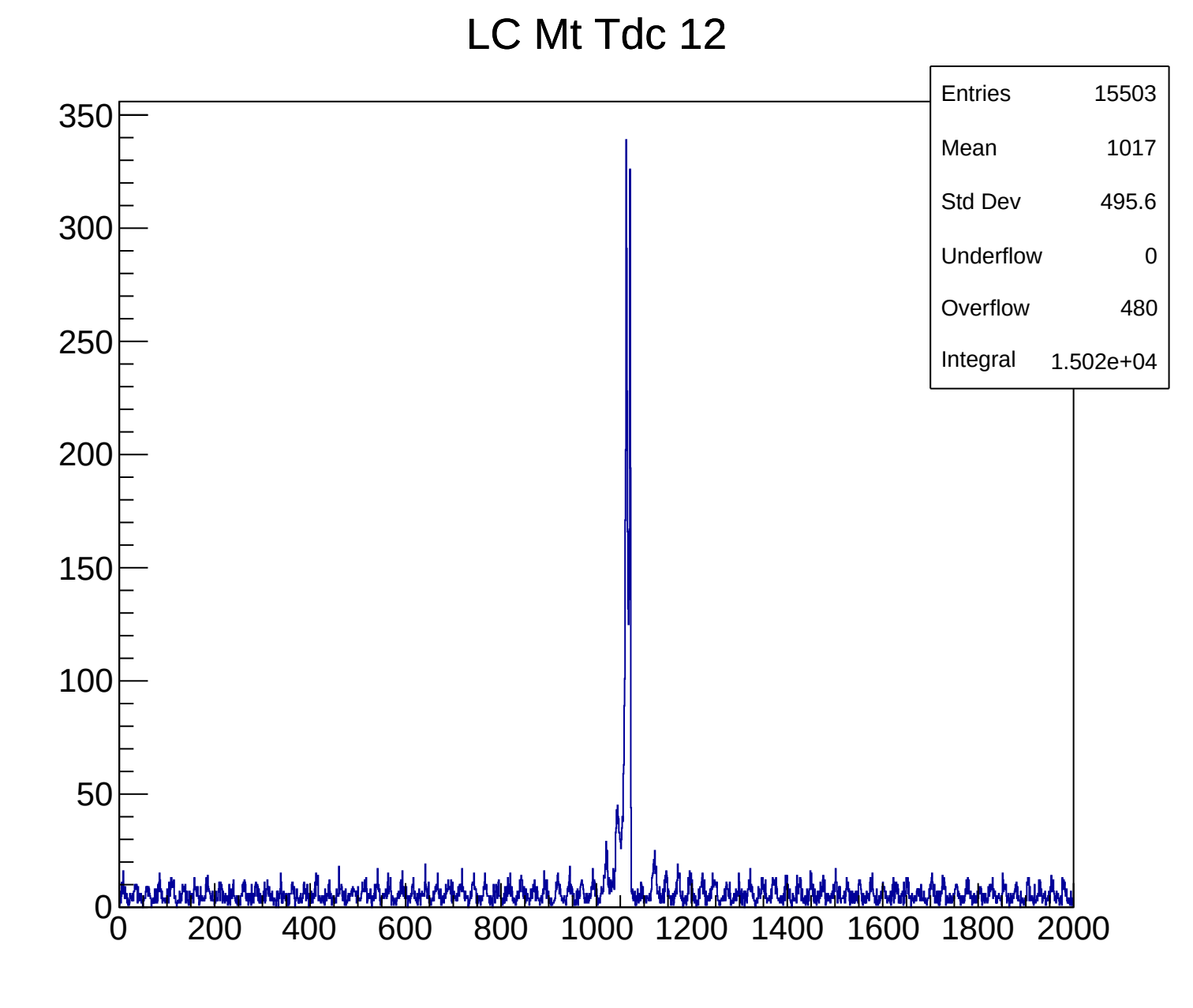
LC Mt Tdc 12
Entries 15503
Mean 1017
Std Dev 495.6
Underflow 0
Overflow 480
Integral 1.502e+04
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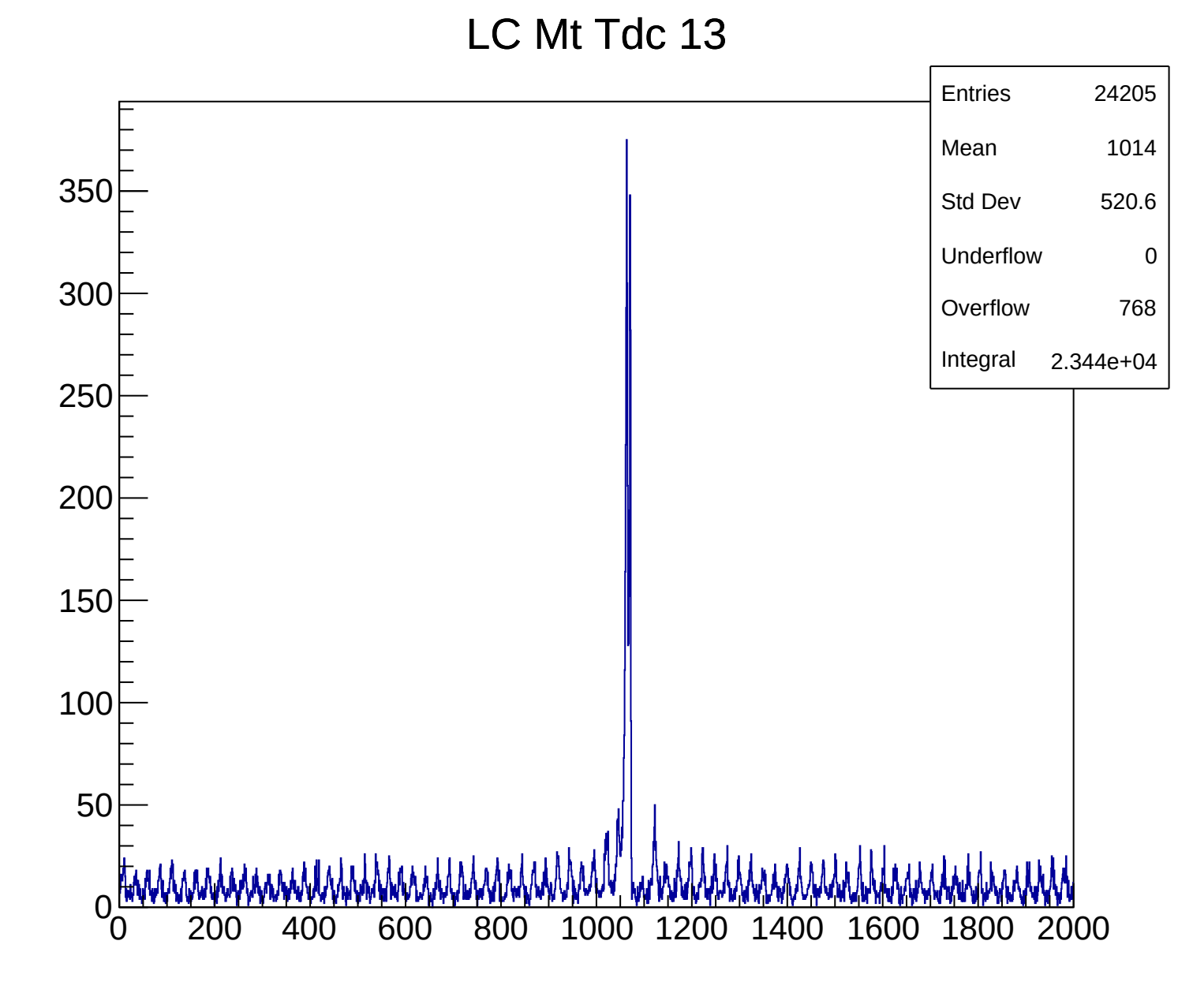
LC Mt Tdc 13
Entries 24205
Mean 1014
Std Dev 520.6
Underflow 0
Overflow 768
Integral 2.344e+04
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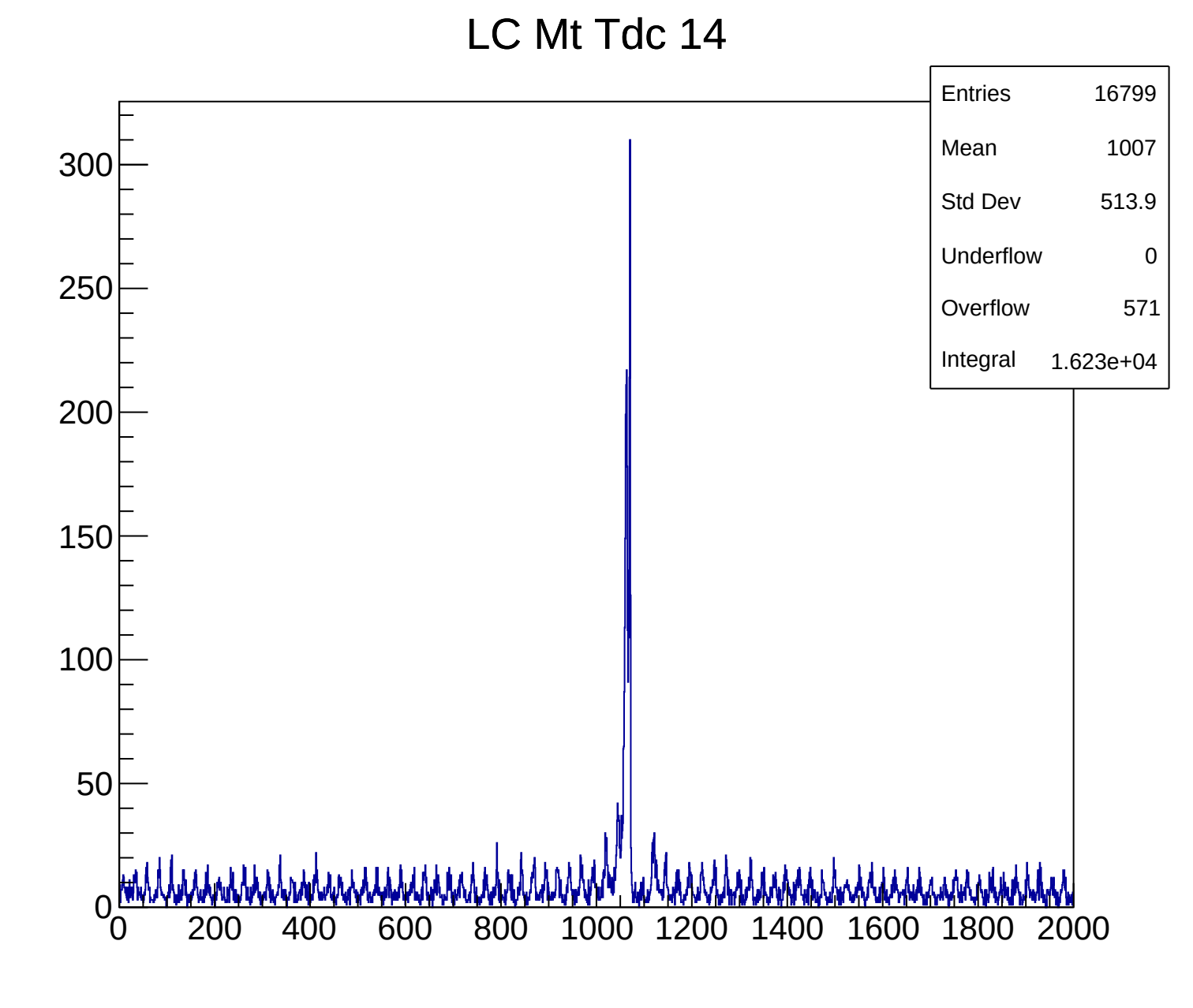
LC Mt Tdc 14
Entries 16799
Mean 1007
Std Dev 513.9
Underflow 0
Overflow 571
Integral 1.623e+04
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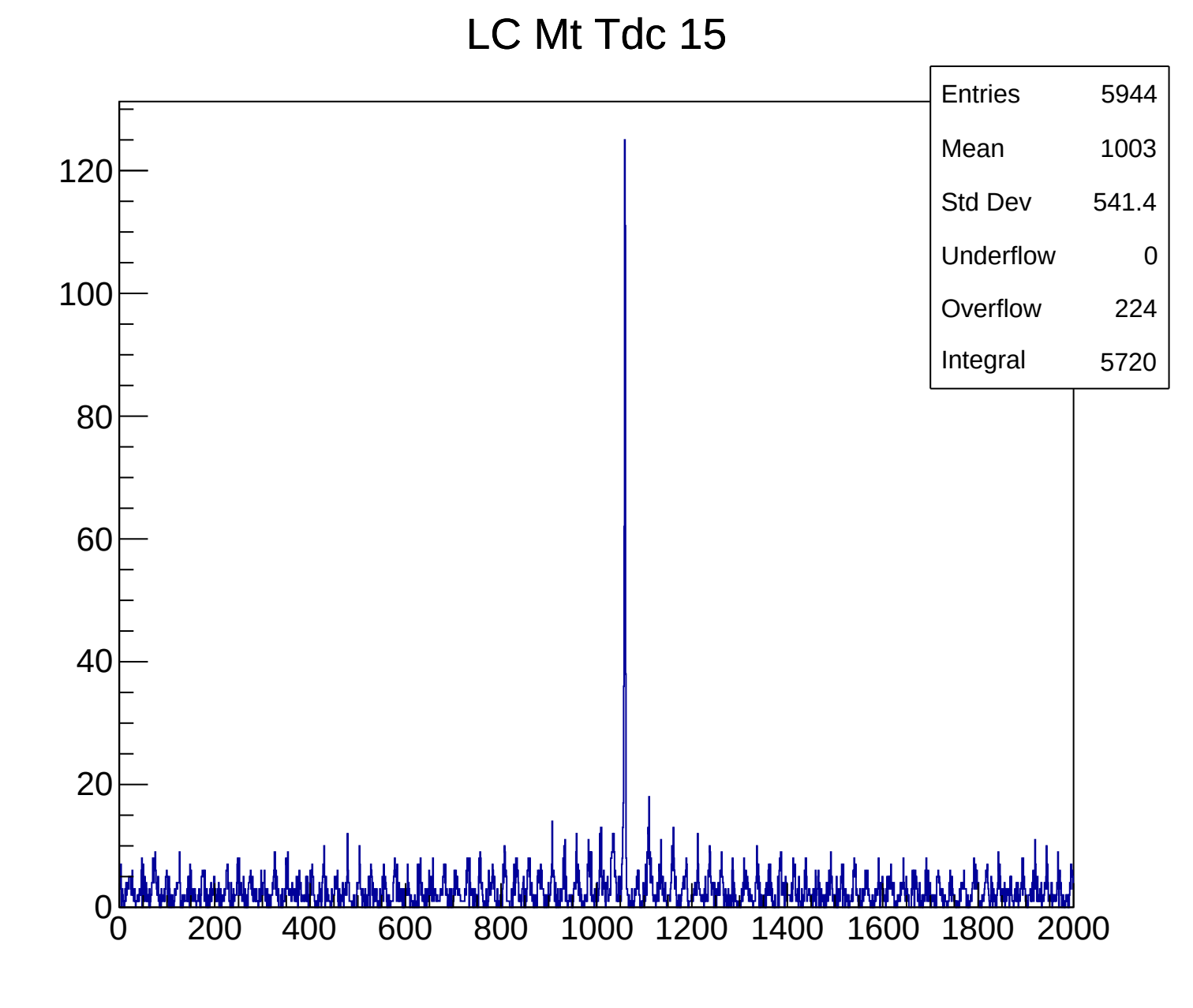
LC Mt Tdc 15
Entries 5944
Mean 1003
Std Dev 541.4
Underflow 0
Overflow 224
Integral 5720
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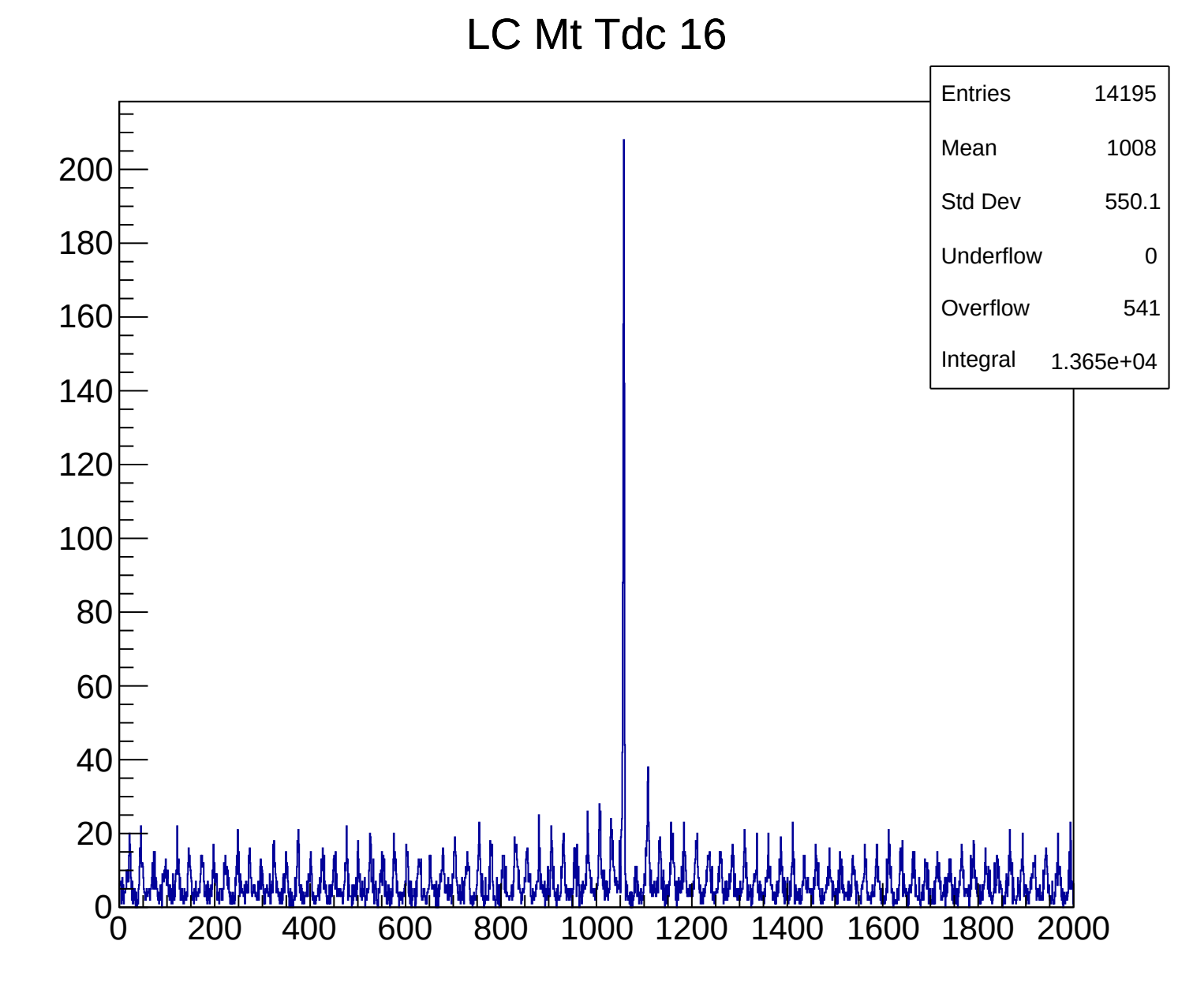
LC Mt Tdc 16
Entries 14195
Mean 1008
Std Dev 550.1
Underflow 0
Overflow 541
Integral 1.365e+04
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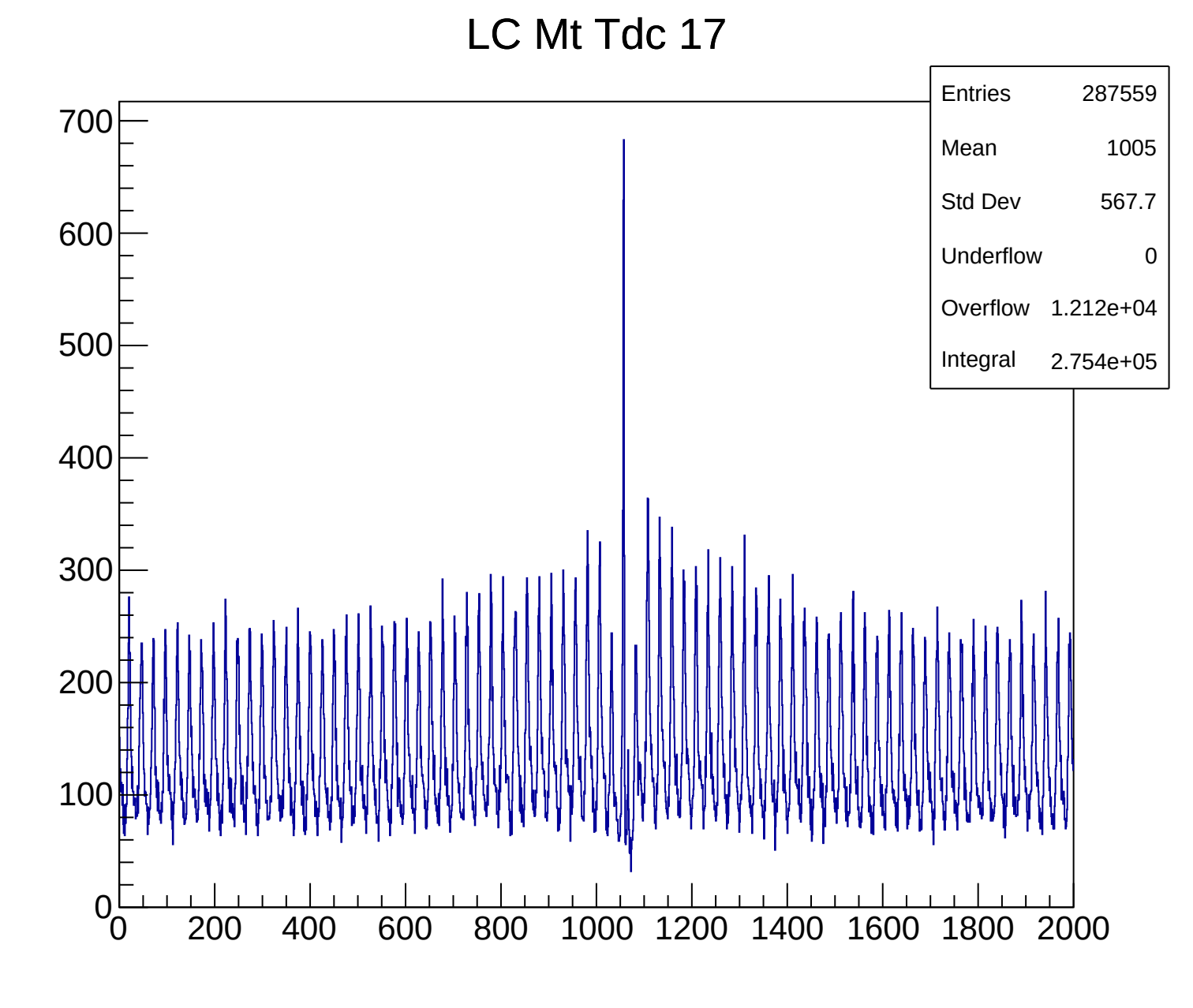
LC Mt Tdc 17
Entries 287559
Mean 1005
Std Dev 567.7
Underflow 0
Overflow 1.212e+04
Integral 2.754e+05
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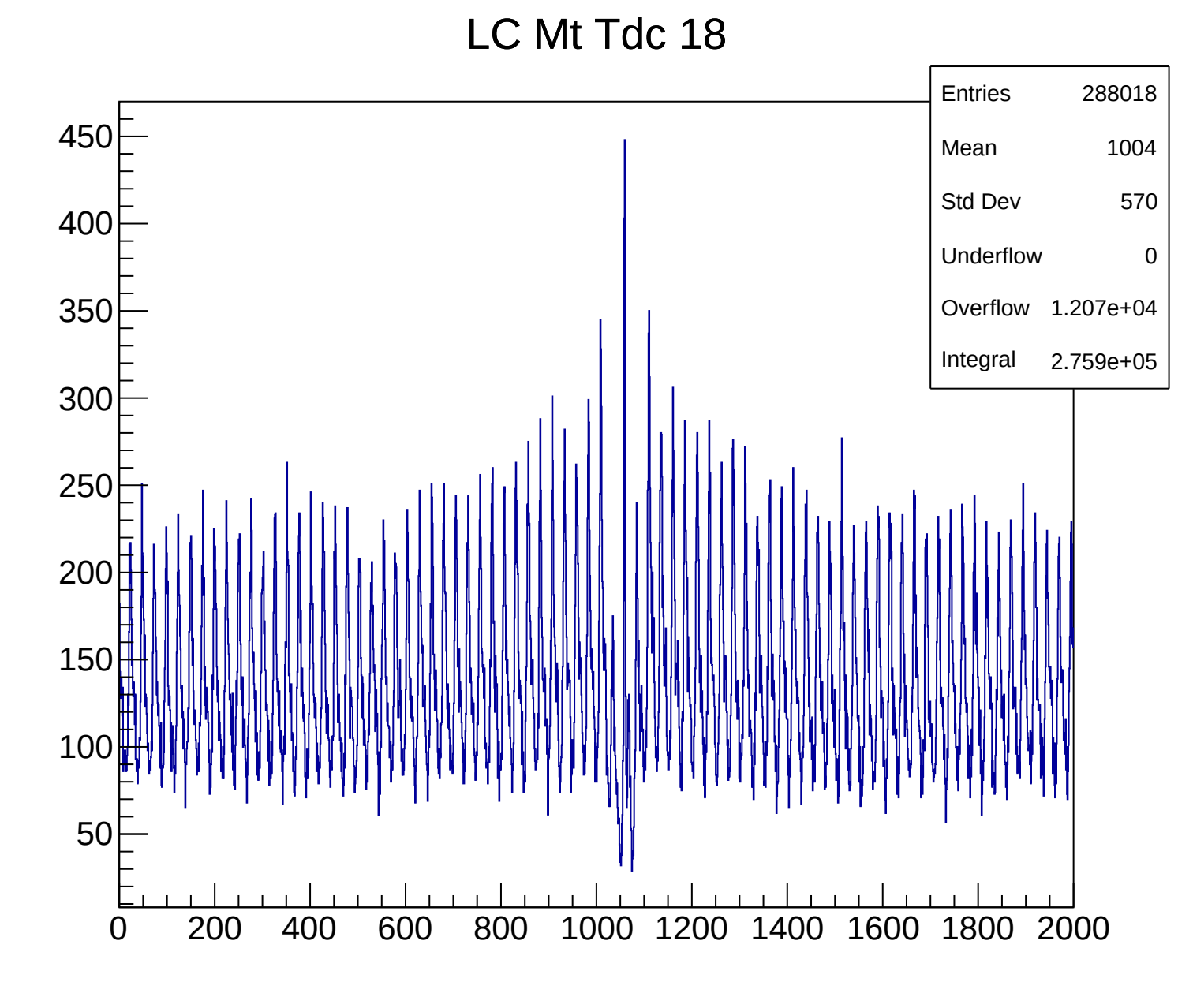
LC Mt Tdc 18
Entries 288018
Mean 1004
Std Dev 570
Underflow 0
Overflow 1.207e+04
Integral 2.759e+05
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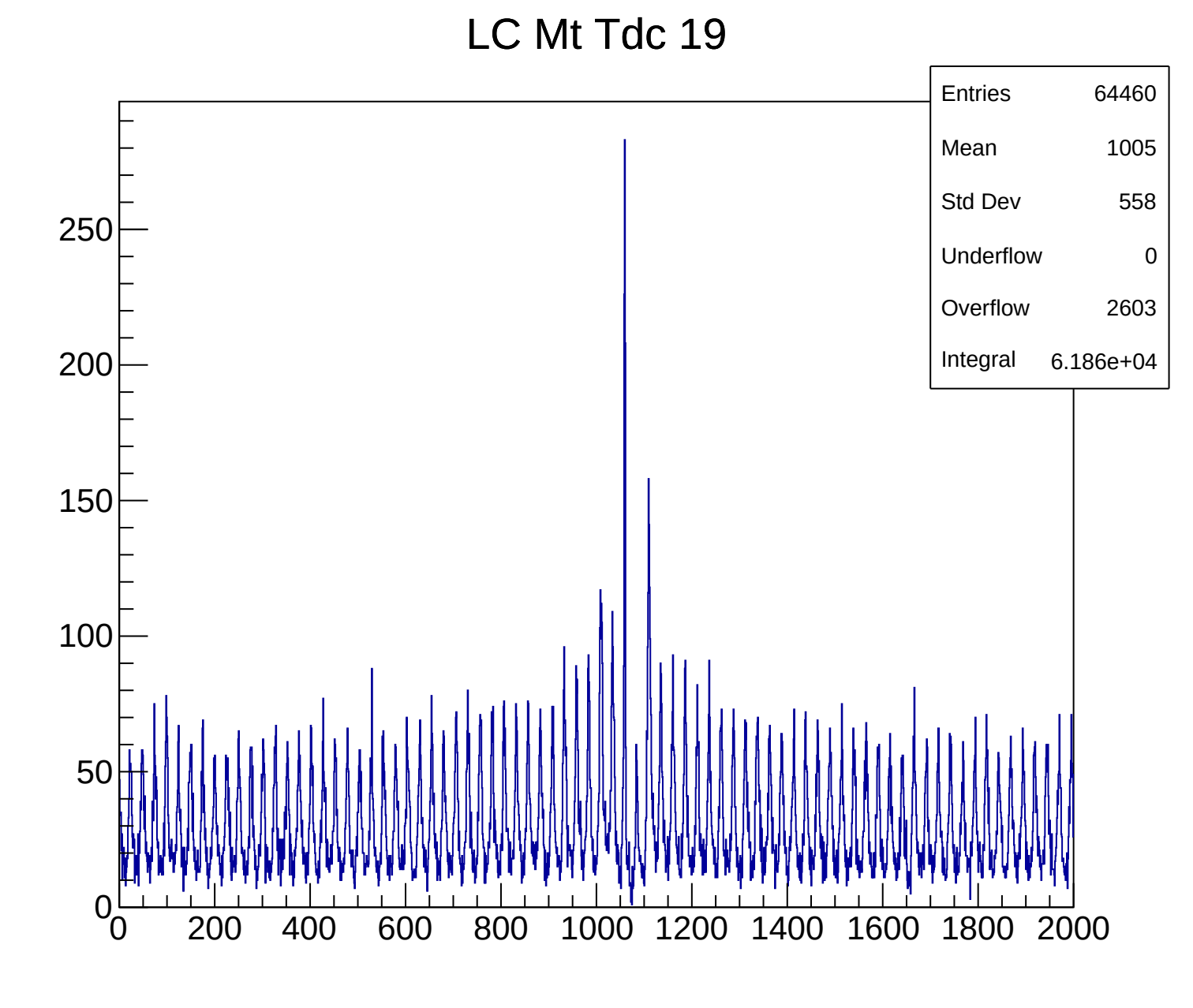
LC Mt Tdc 19
Entries 64460
Mean 1005
Std Dev 558
Underflow 0
Overflow 2603
Integral 6.186e+04
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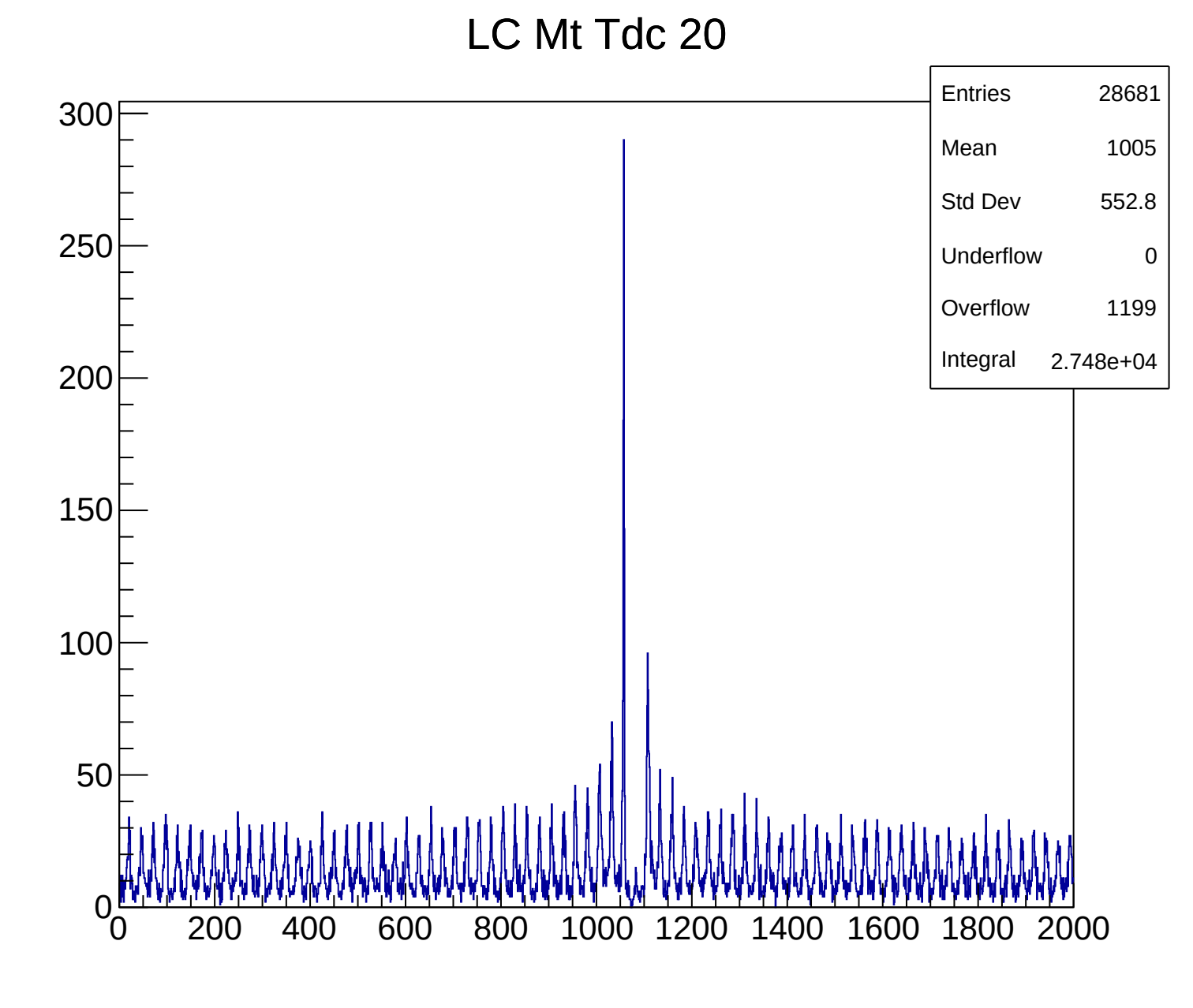
LC Mt Tdc 20
Entries 28681
Mean 1005
Std Dev 552.8
Underflow 0
Overflow 1199
Integral 2.748e+04
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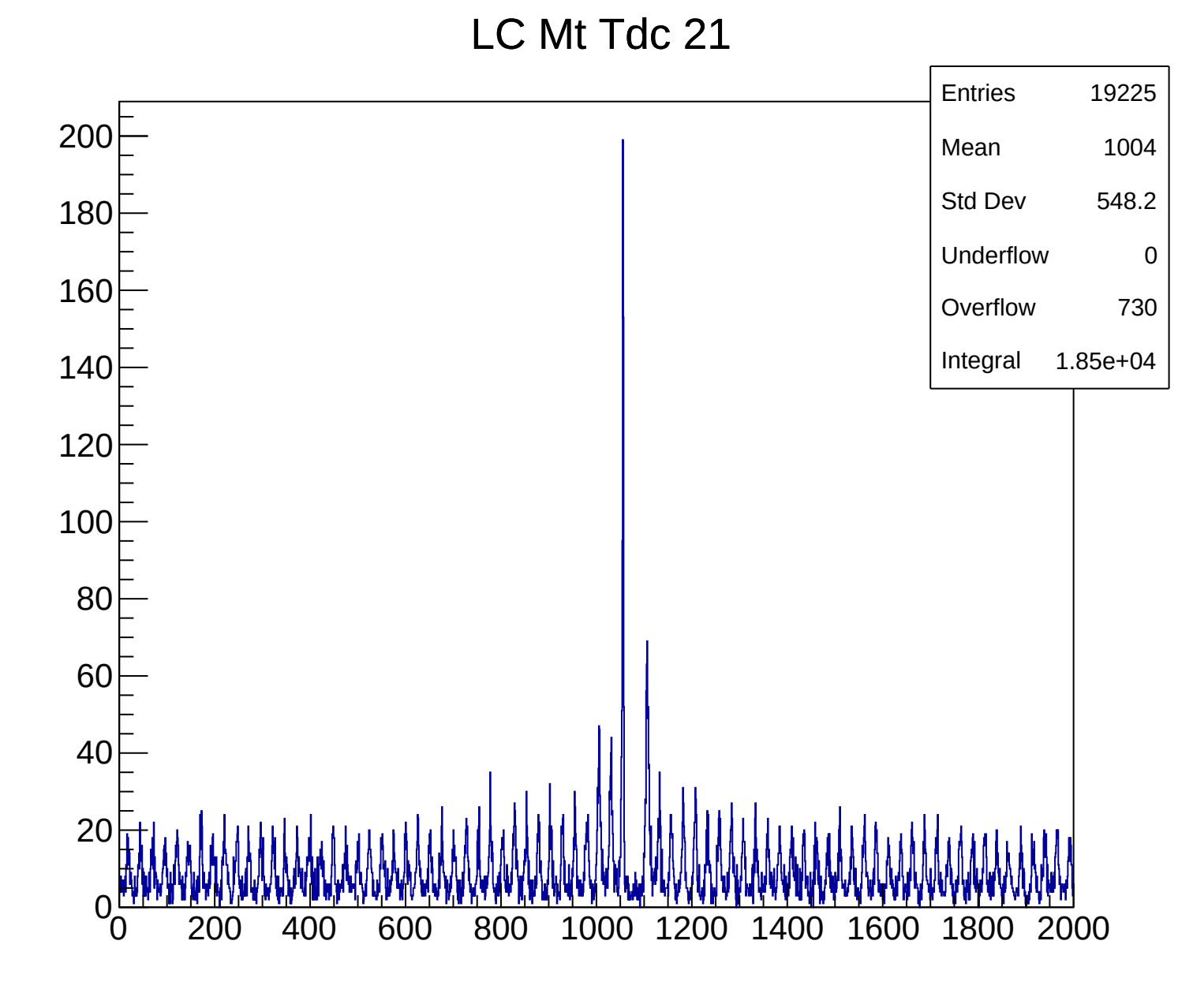
LC Mt Tdc 21
Entries 19225
Mean 1004
Std Dev 548.2
Underflow 0
Overflow 730
Integral 1.85e+04
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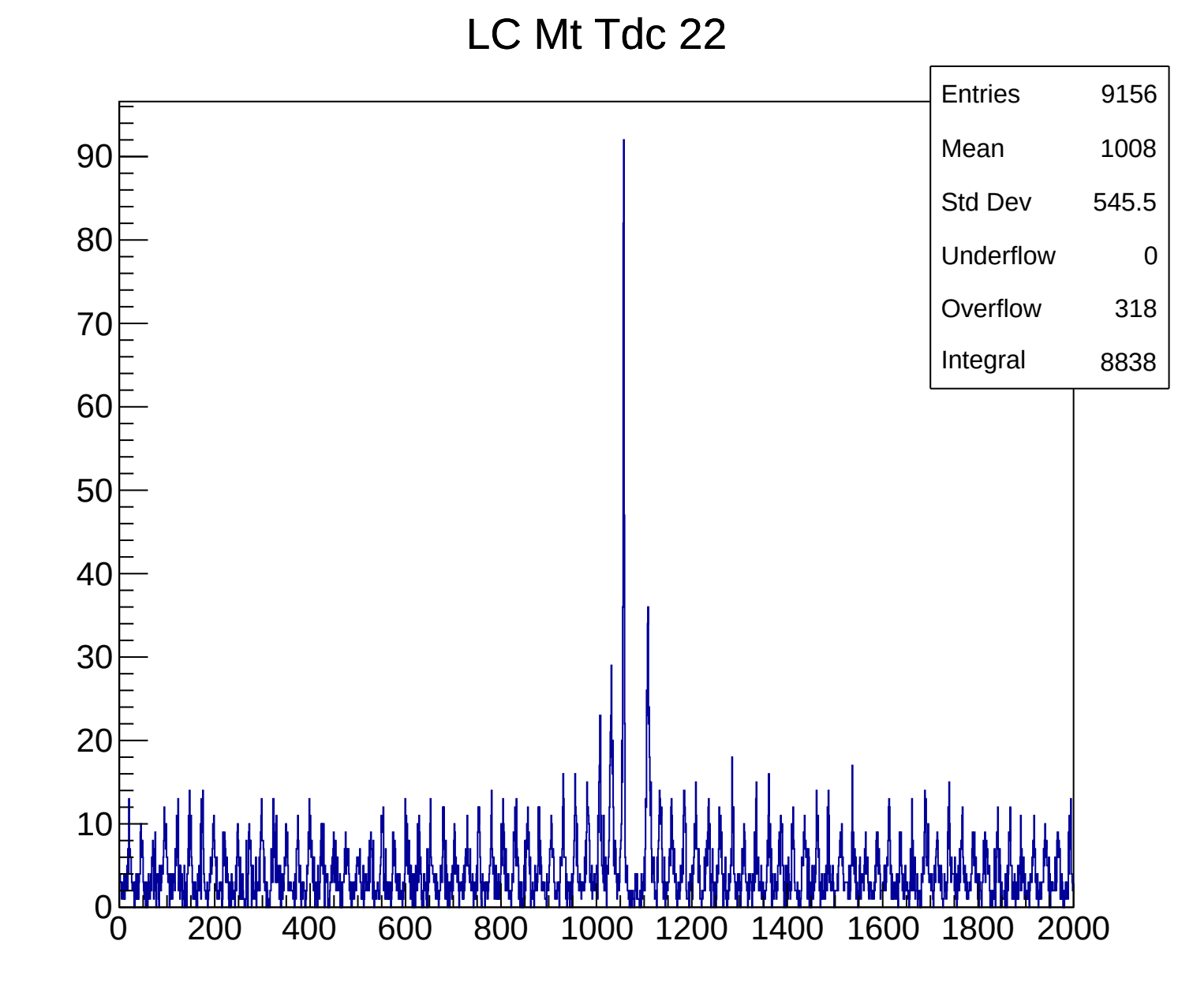
LC Mt Tdc 22
Entries 9156
Mean 1008
Std Dev 545.5
Underflow 0
Overflow 318
Integral 8838
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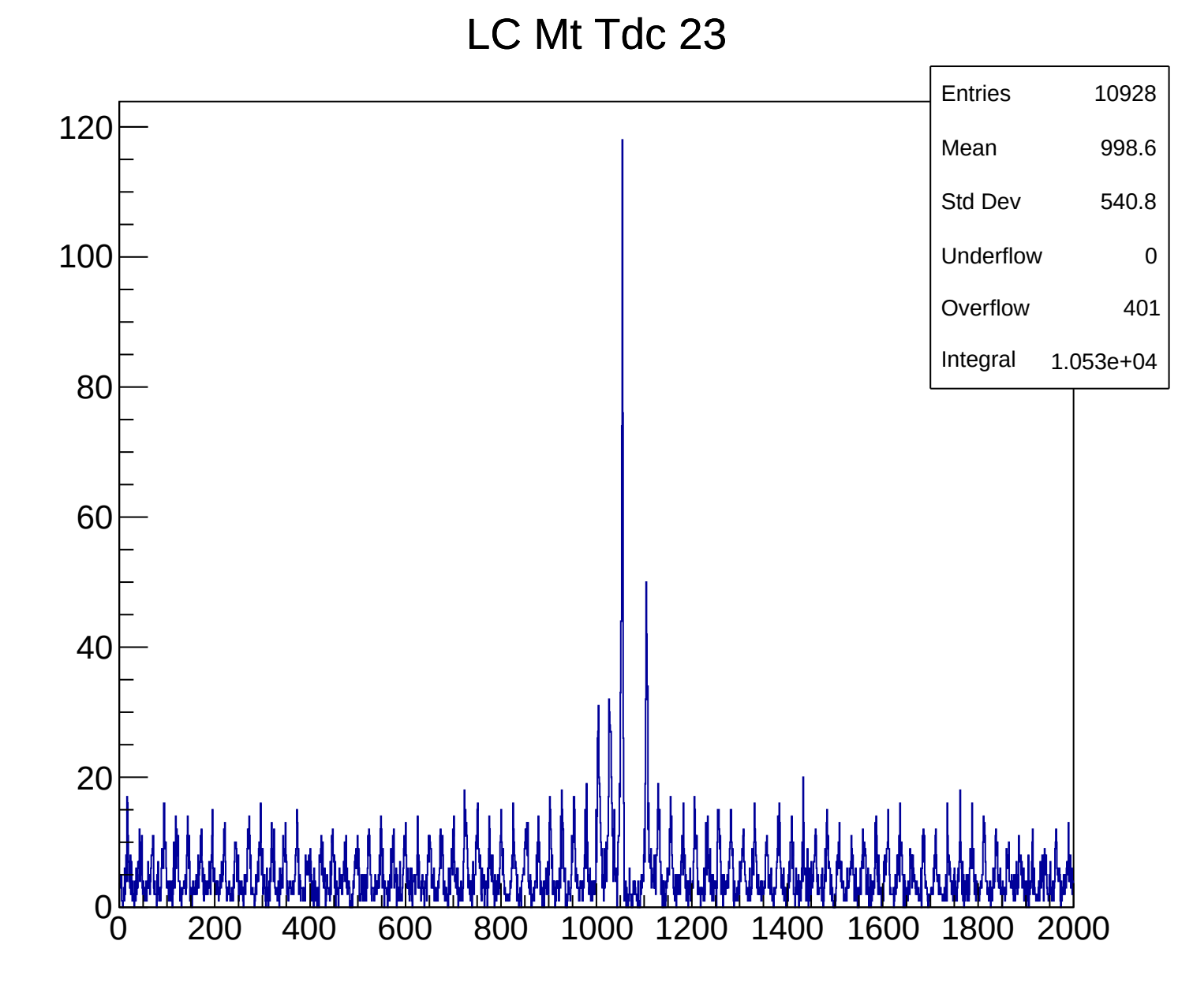
LC Mt Tdc 23
Entries 10928
Mean 998.6
Std Dev 540.8
Underflow 0
Overflow 401
Integral 1.053e+04
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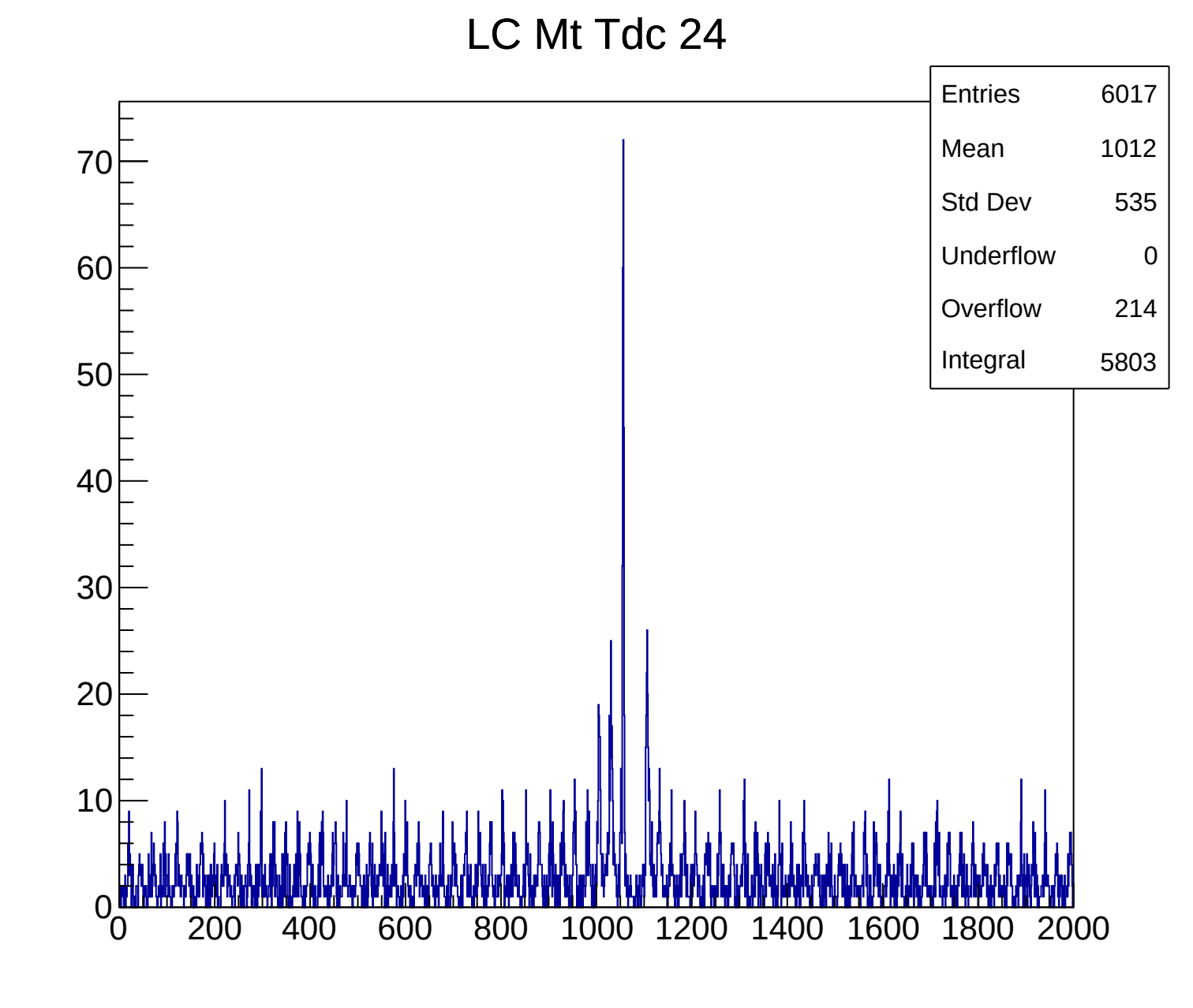
LC Mt Tdc 24
Entries 6017
Mean 1012
Std Dev 535
Underflow 0
Overflow 214
Integral 5803
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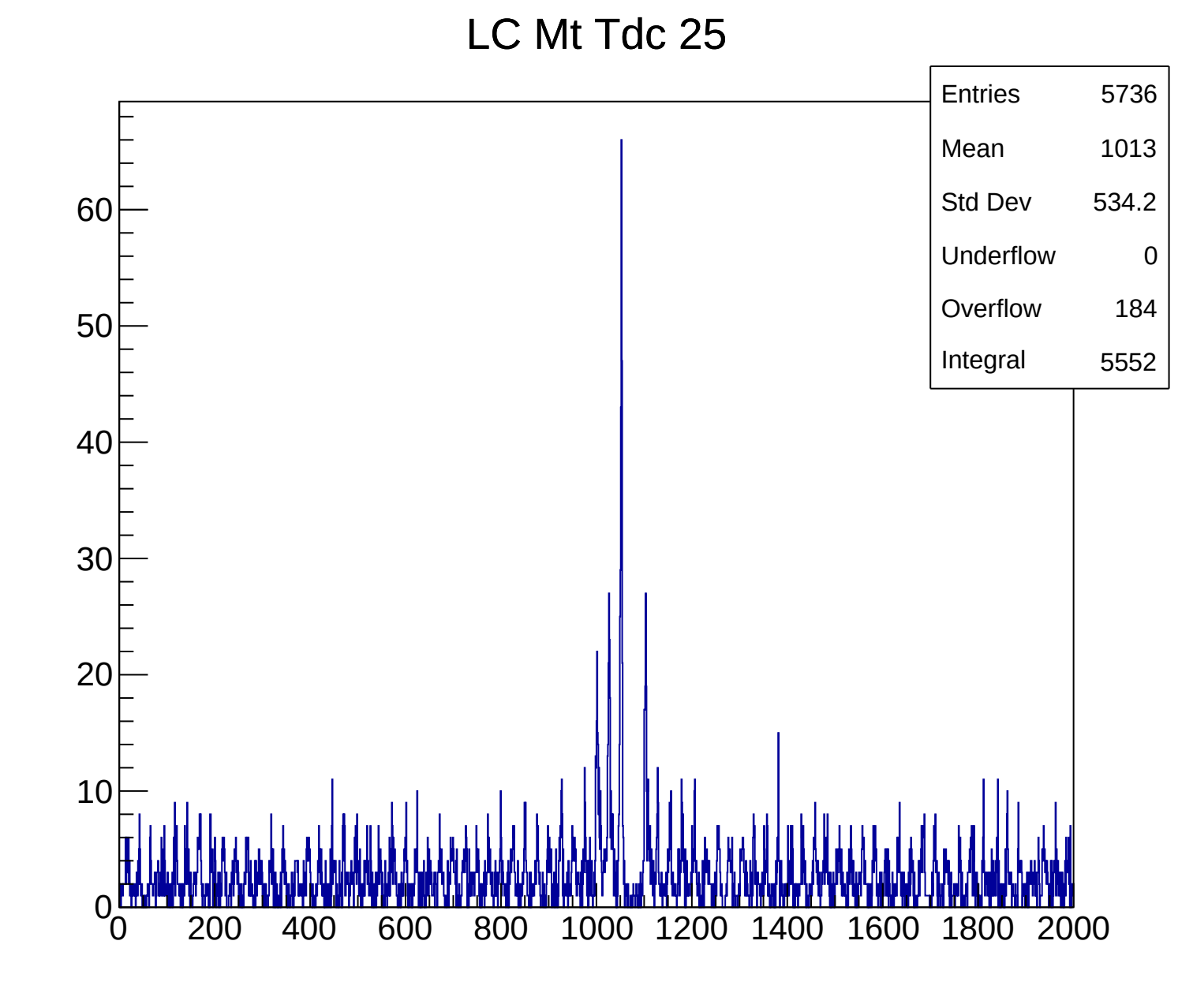
LC Mt Tdc 25
Entries 5736
Mean 1013
Std Dev 534.2
Underflow 0
Overflow 184
Integral 5552
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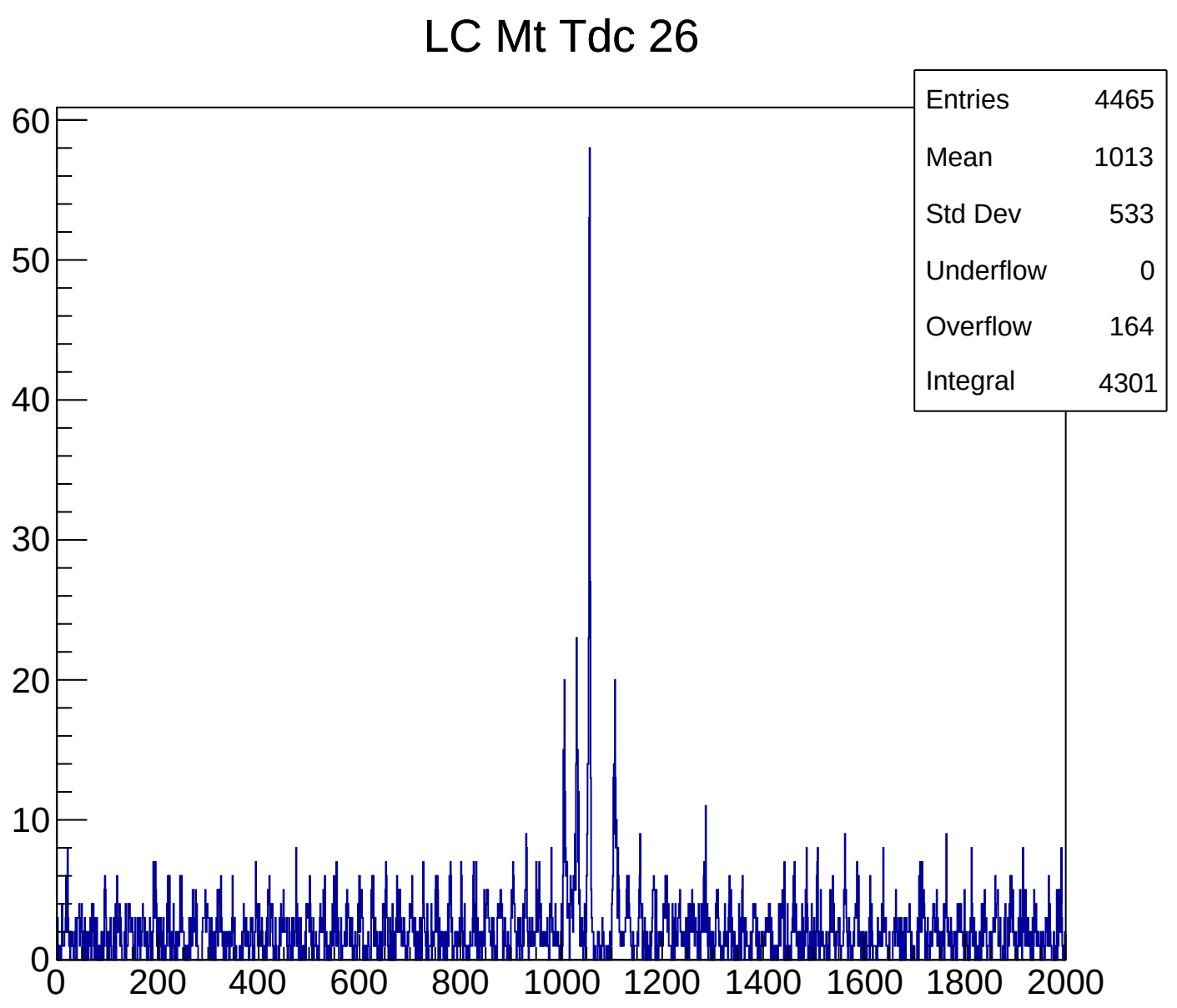
LC Mt Tdc 26
Entries 4465
Mean 1013
Std Dev 533
Underflow 0
Overflow 164
Integral 4301
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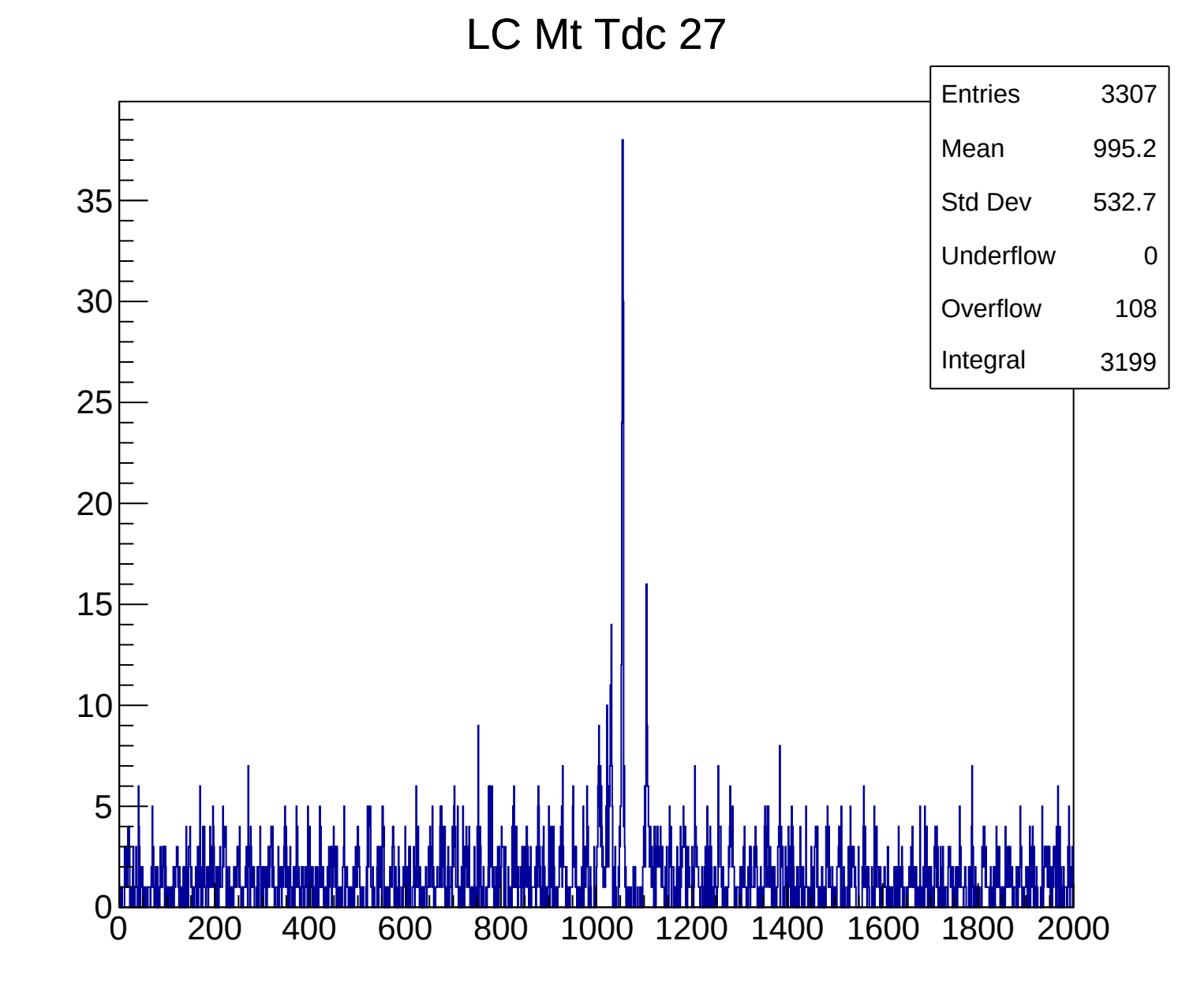
LC Mt Tdc 27
Entries 3307
Mean 995.2
Std Dev 532.7
Underflow 0
Overflow 108
Integral 3199
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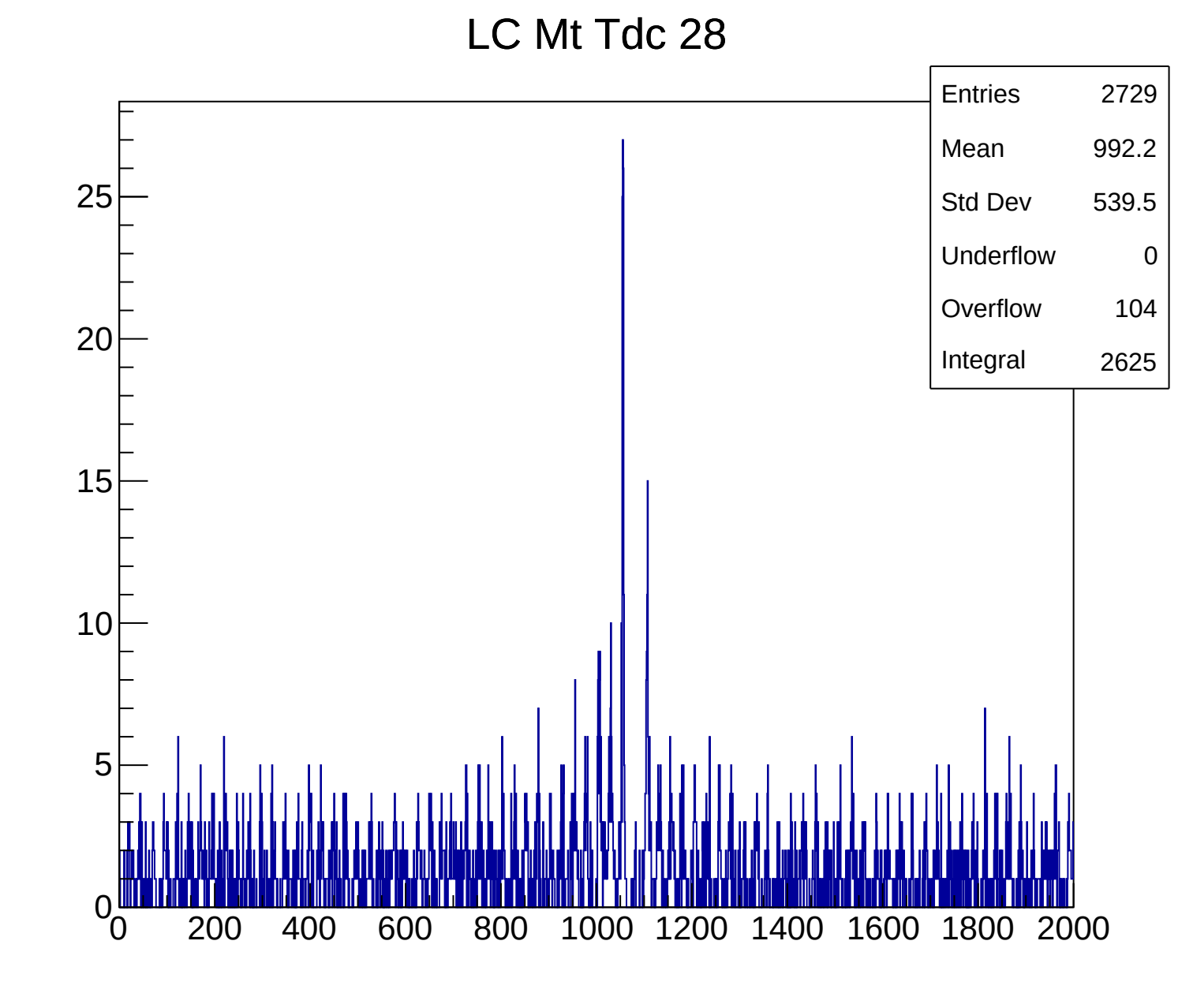
LC Mt Tdc 28
Entries 2729
Mean 992.2
Std Dev 539.5
Underflow 0
Overflow 104
Integral 2625
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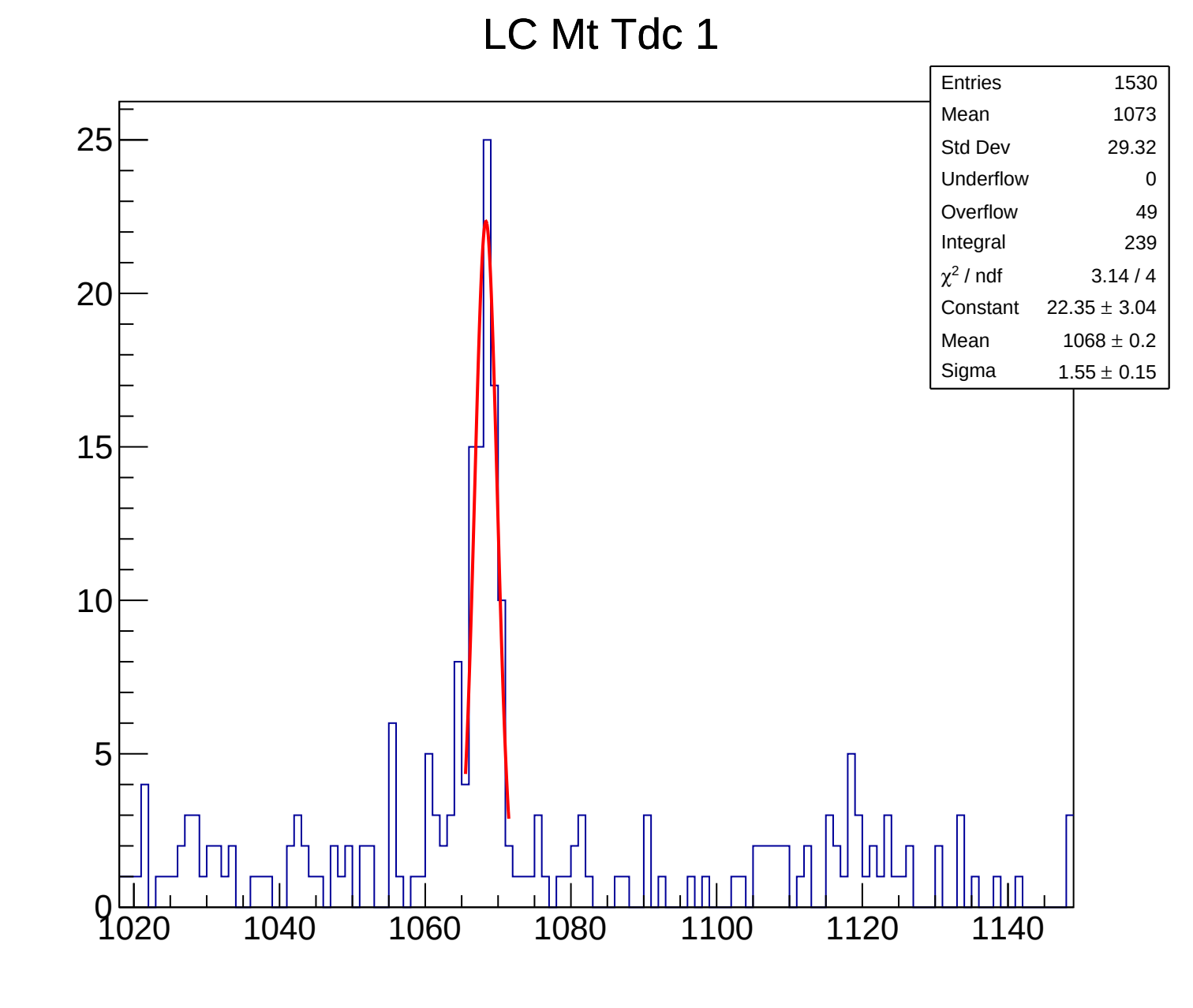
LC Mt Tdc 1
Entries 1530
Mean 1073
Std Dev 29.32
Underflow 0
Overflow 49
Integral 239
χ² / ndf 3.14 / 4
Constant 22.35 ± 3.04
Mean 1068 ± 0.2
Sigma 1.55 ± 0.15
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15
10
5
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1040
1060
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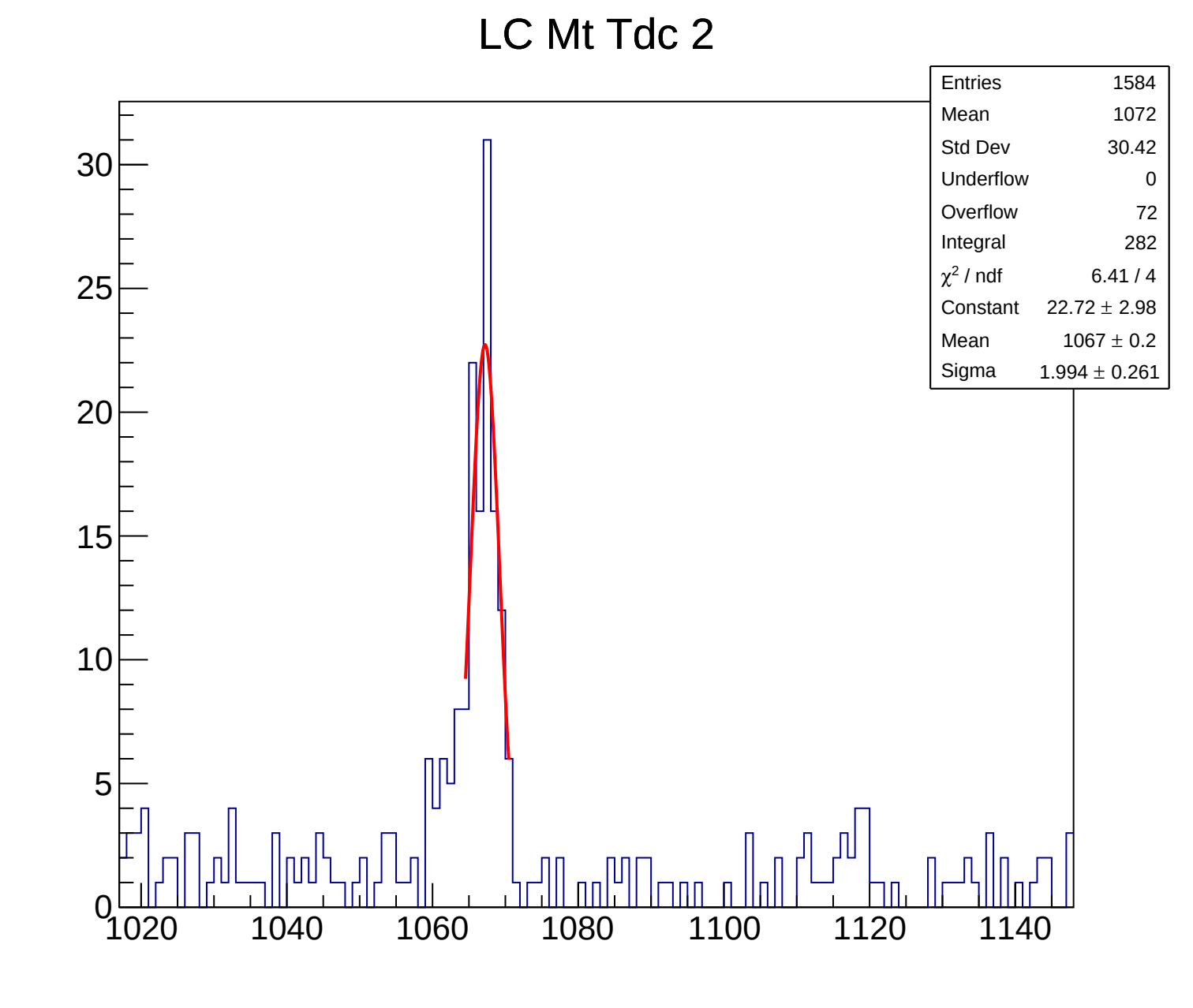
1100
1120
1140


LC Mt Tdc 2
Entries 1584
Mean 1072
Std Dev 30.42
Underflow 0
Overflow 72
Integral 282
χ² / ndf 6.41 / 4
Constant 22.72 ± 2.98
Mean 1067 ± 0.2
Sigma 1.994 ± 0.261
0
5
10
15
20
25
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1020
1040
1060
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1100
1120
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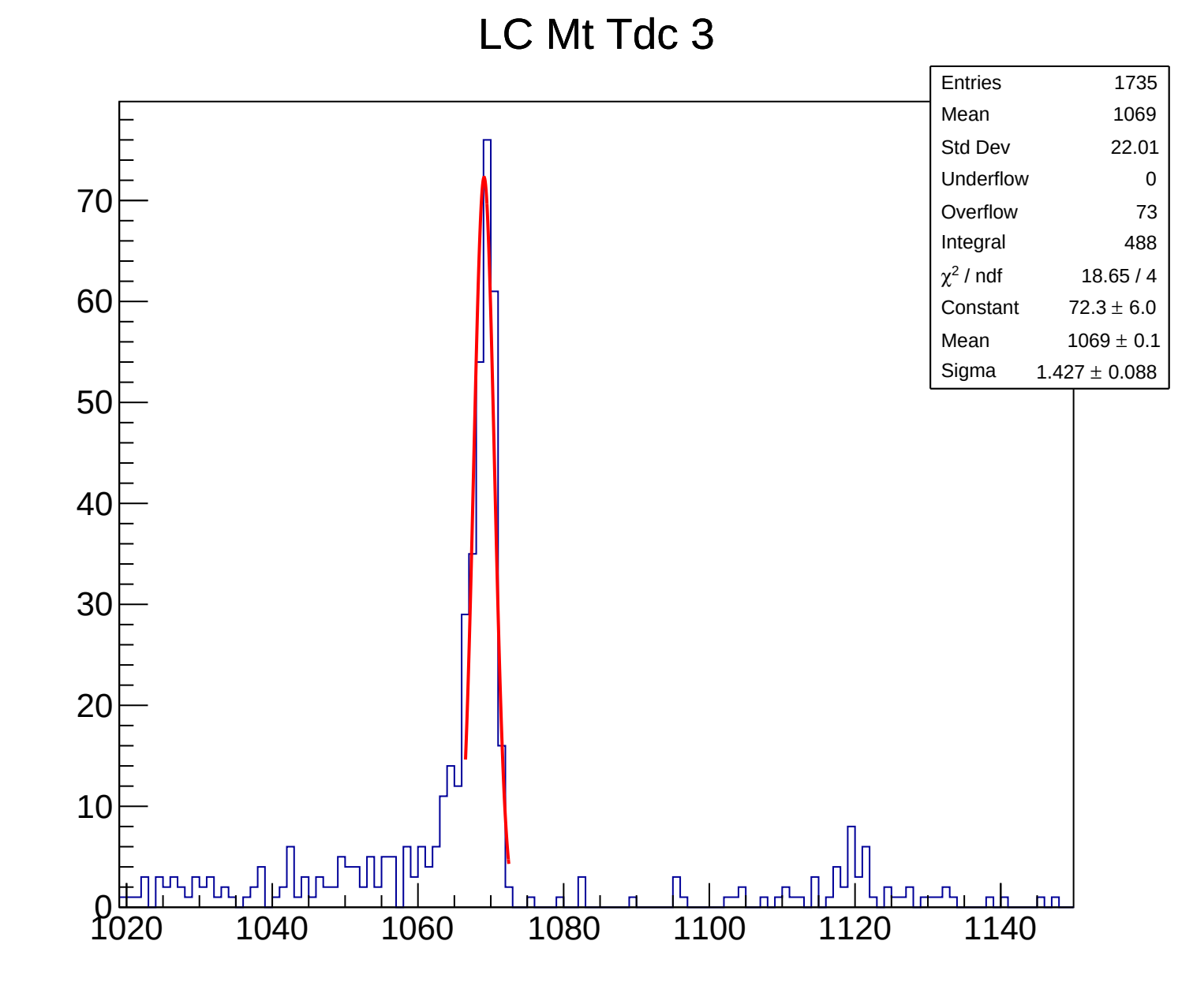
LC Mt Tdc 3
Entries 1735
Mean 1069
Std Dev 22.01
Underflow 0
Overflow 73
Integral 488
χ² / ndf 18.65 / 4
Constant 72.3 ± 6.0
Mean 1069 ± 0.1
Sigma 1.427 ± 0.088
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50
40
30
20
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1040
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1100
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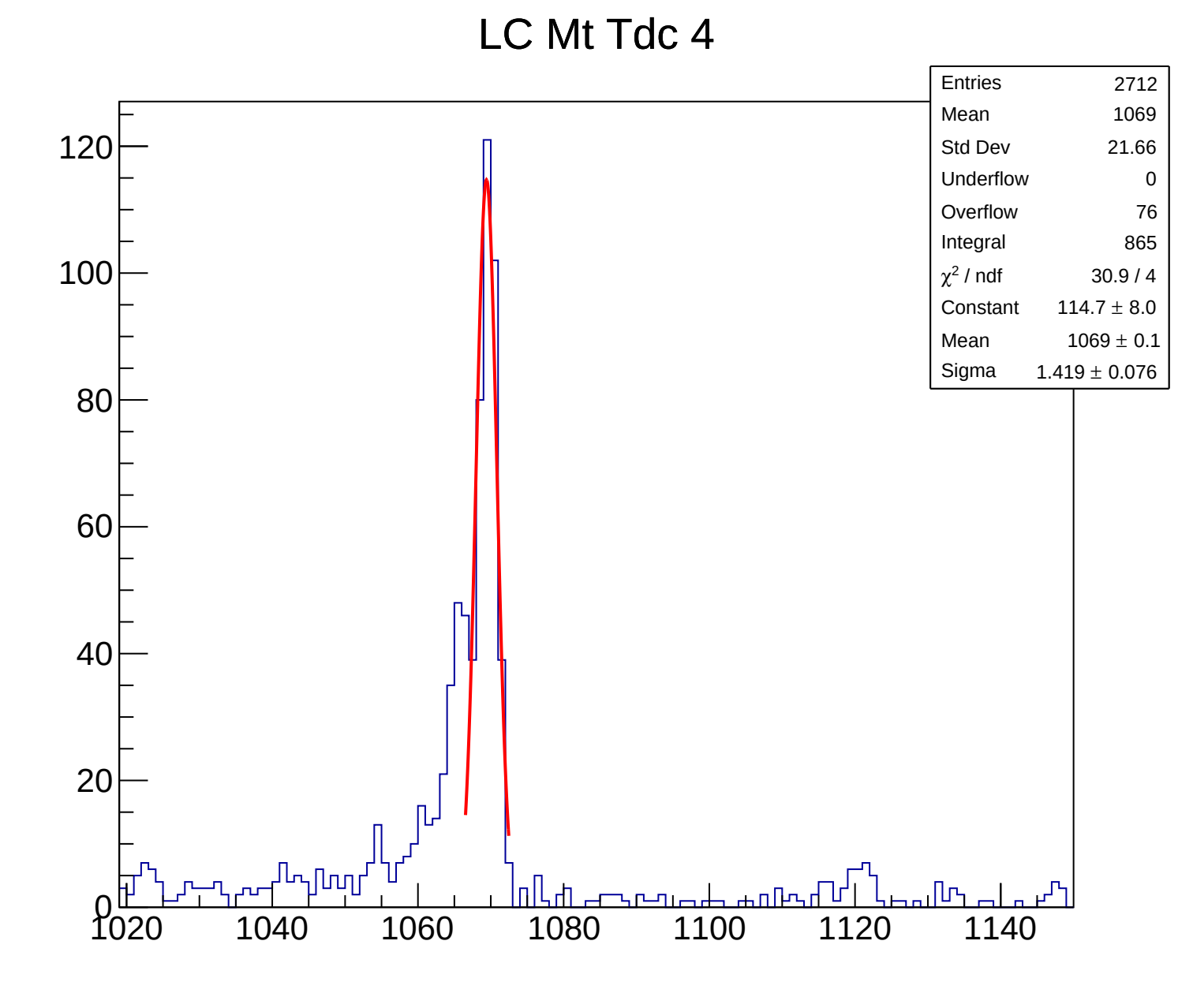
1140


LC Mt Tdc 4
Entries 2712
Mean 1069
Std Dev 21.66
Underflow 0
Overflow 76
Integral 865
χ² / ndf 30.9 / 4
Constant 114.7 ± 8.0
Mean 1069 ± 0.1
Sigma 1.419 ± 0.076
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100
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60
40
20
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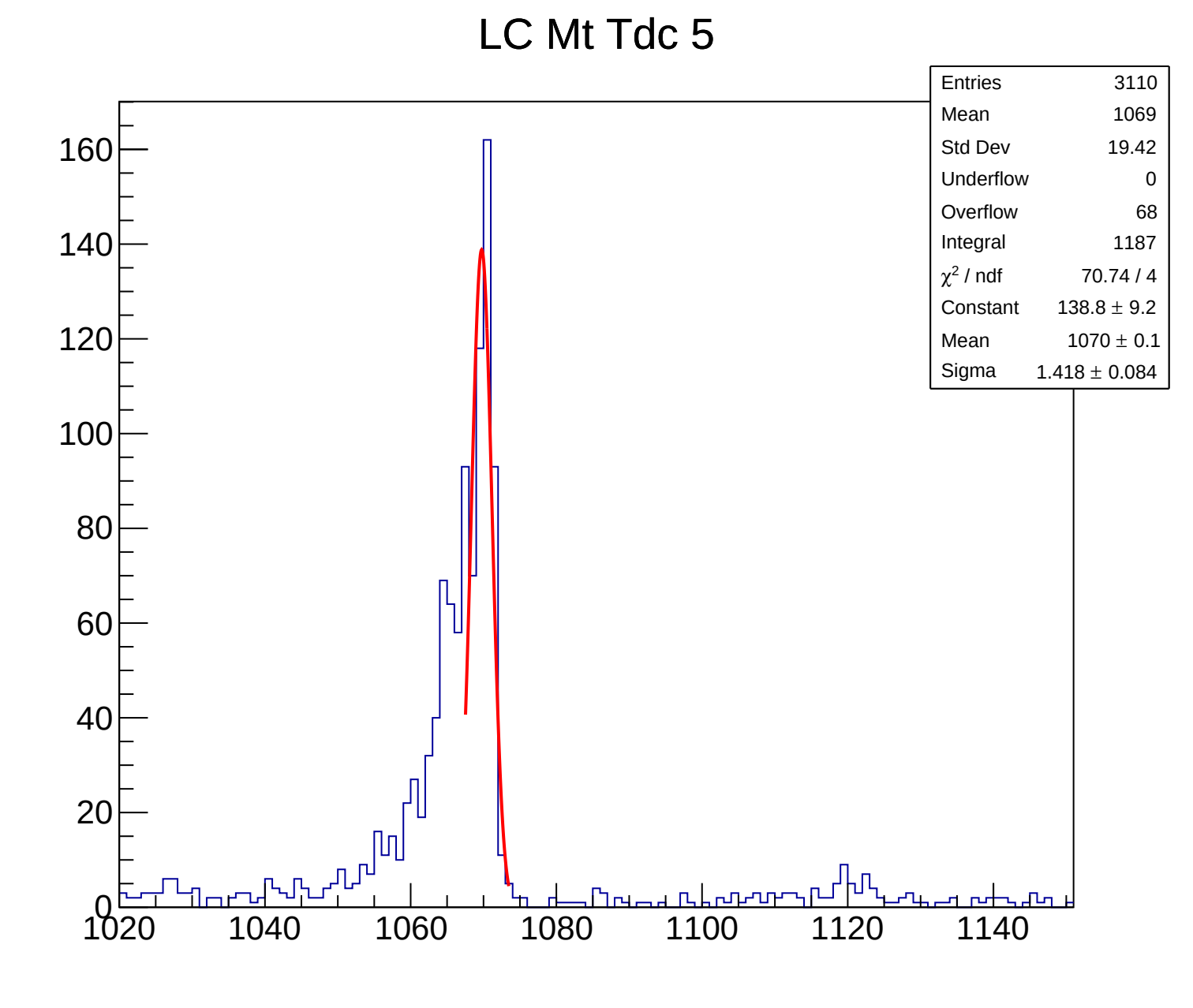
1020
1040
1060
1080
1100
1120
1140


LC Mt Tdc 5
Entries 3110
Mean 1069
Std Dev 19.42
Underflow 0
Overflow 68
Integral 1187
χ² / ndf 70.74 / 4
Constant 138.8 ± 9.2
Mean 1070 ± 0.1
Sigma 1.418 ± 0.084
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100
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60
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1040
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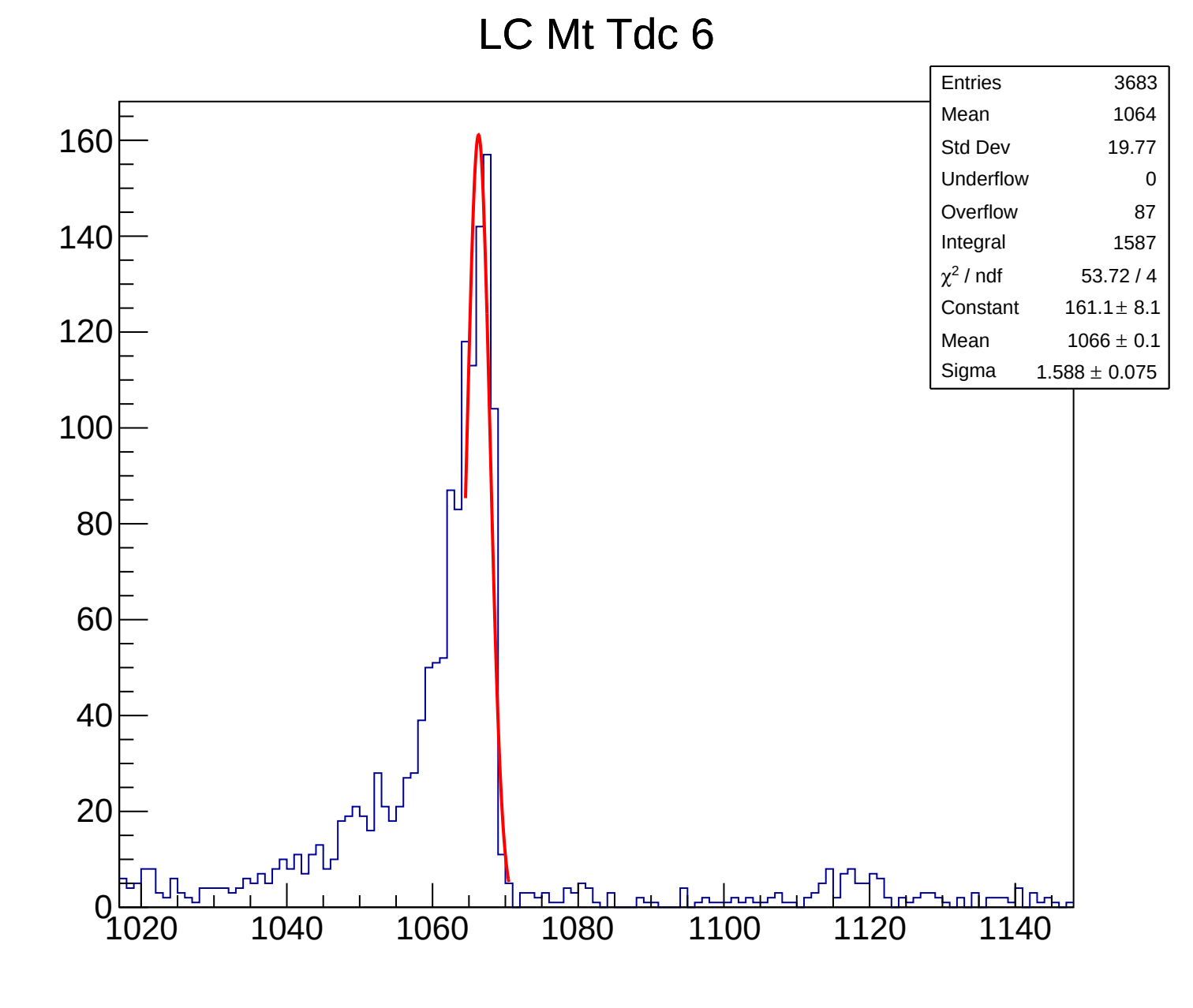
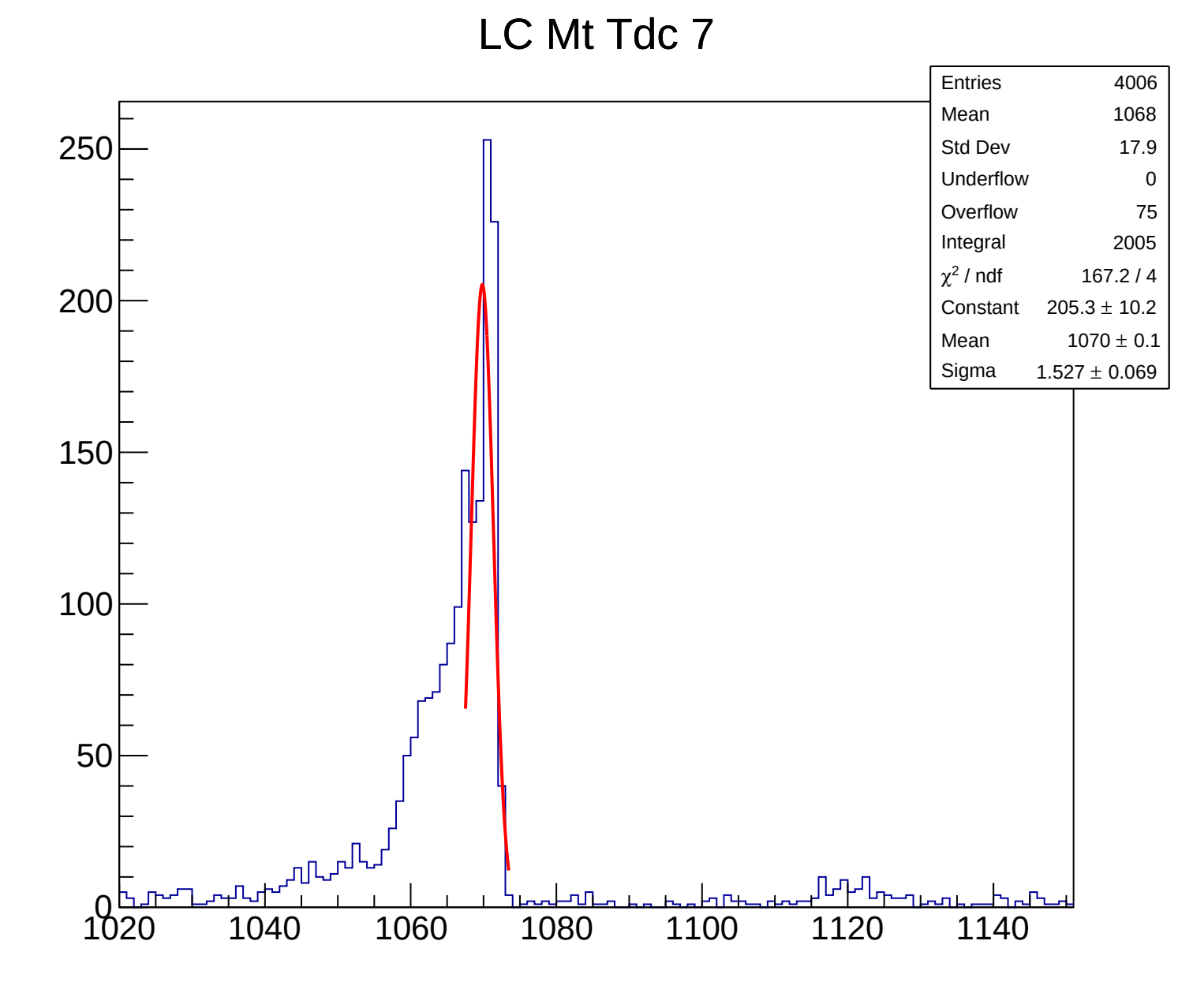
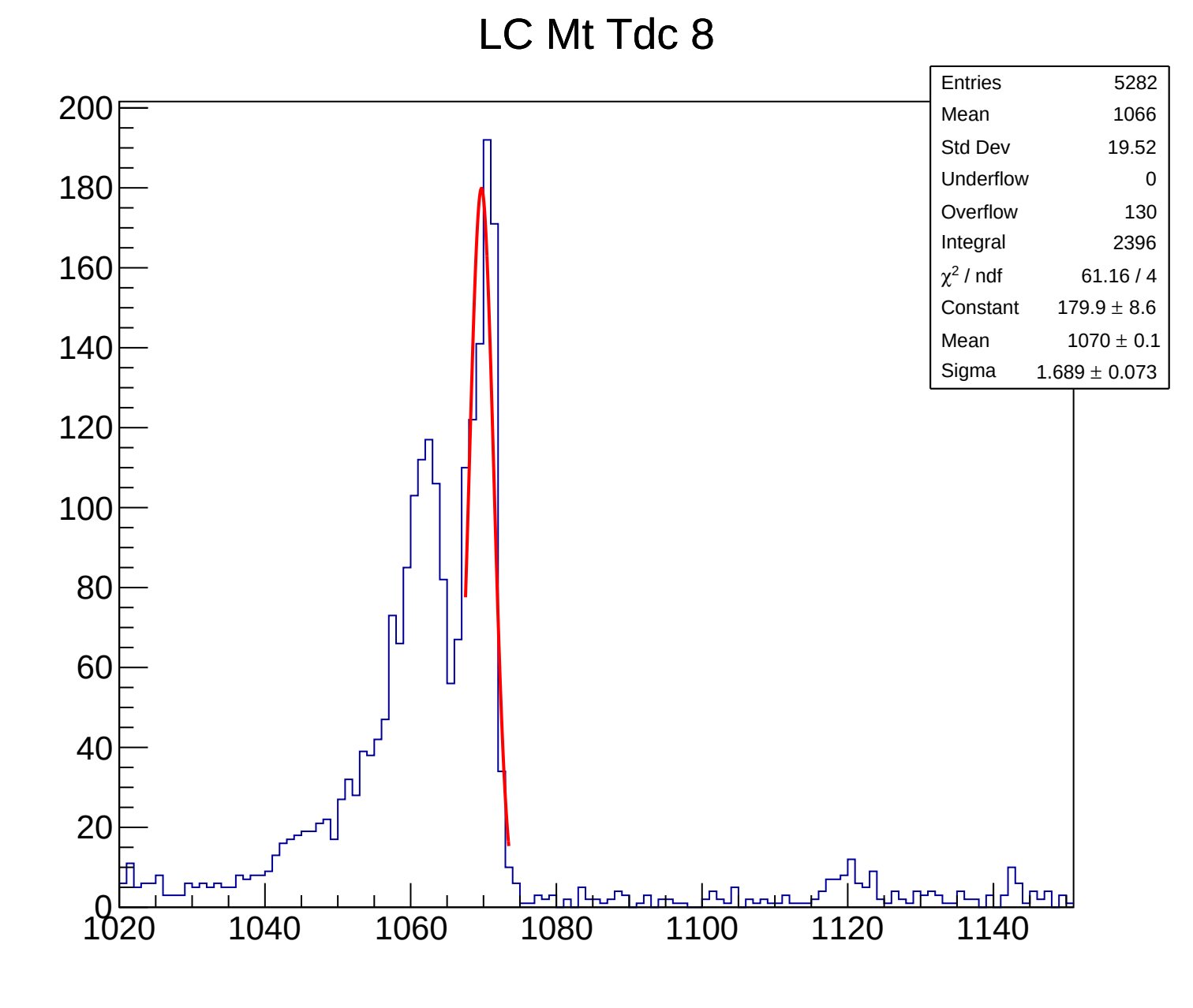
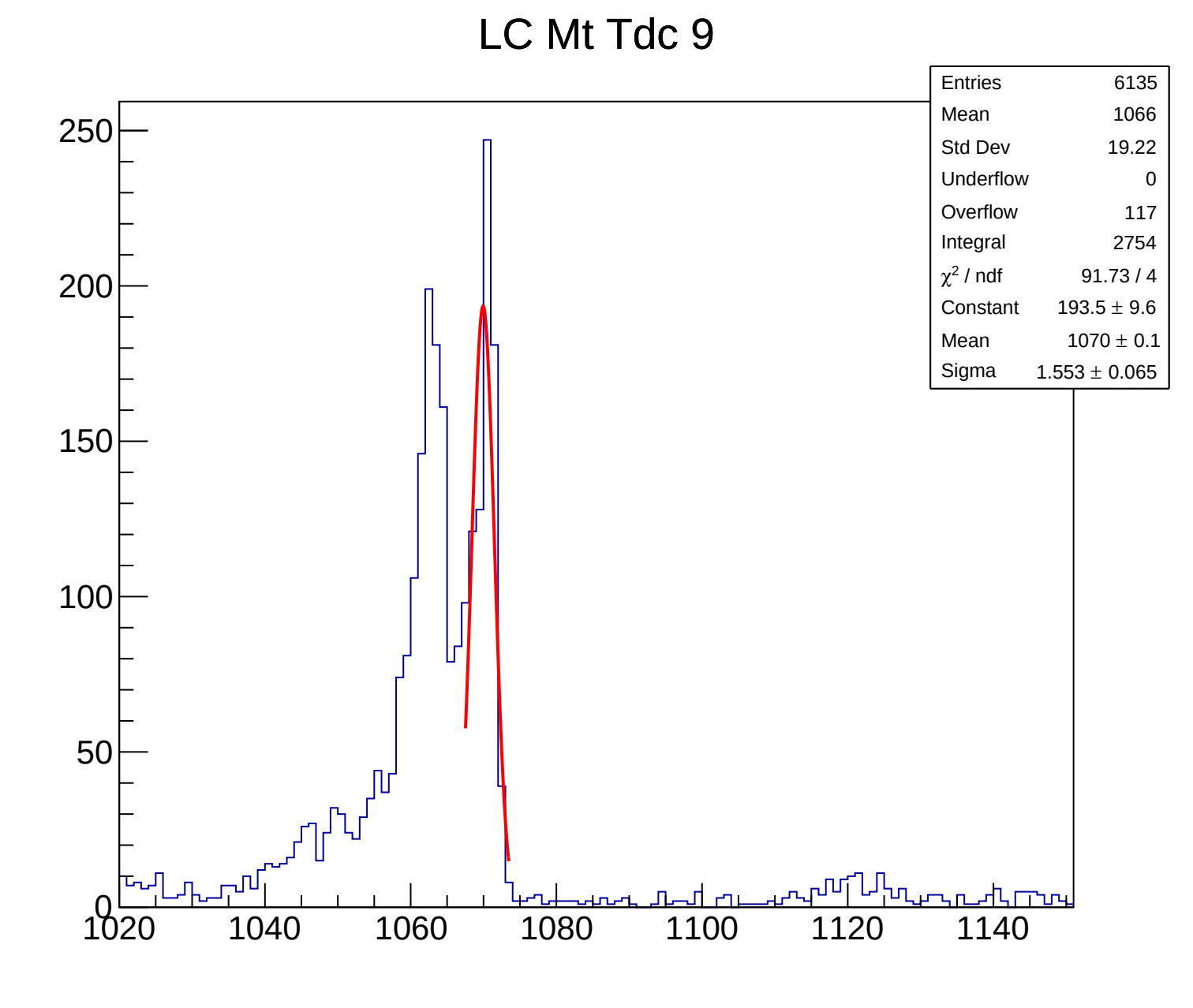
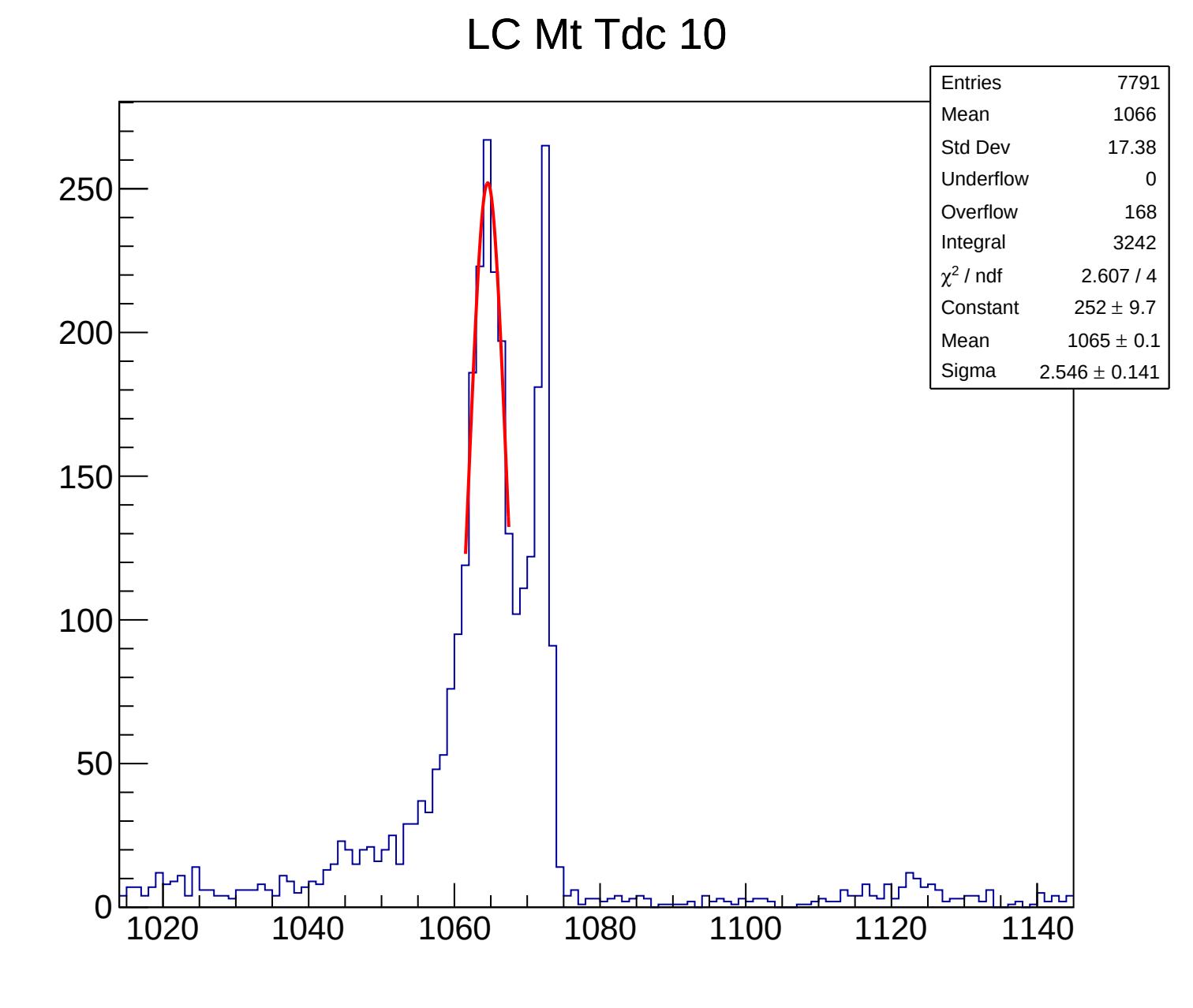
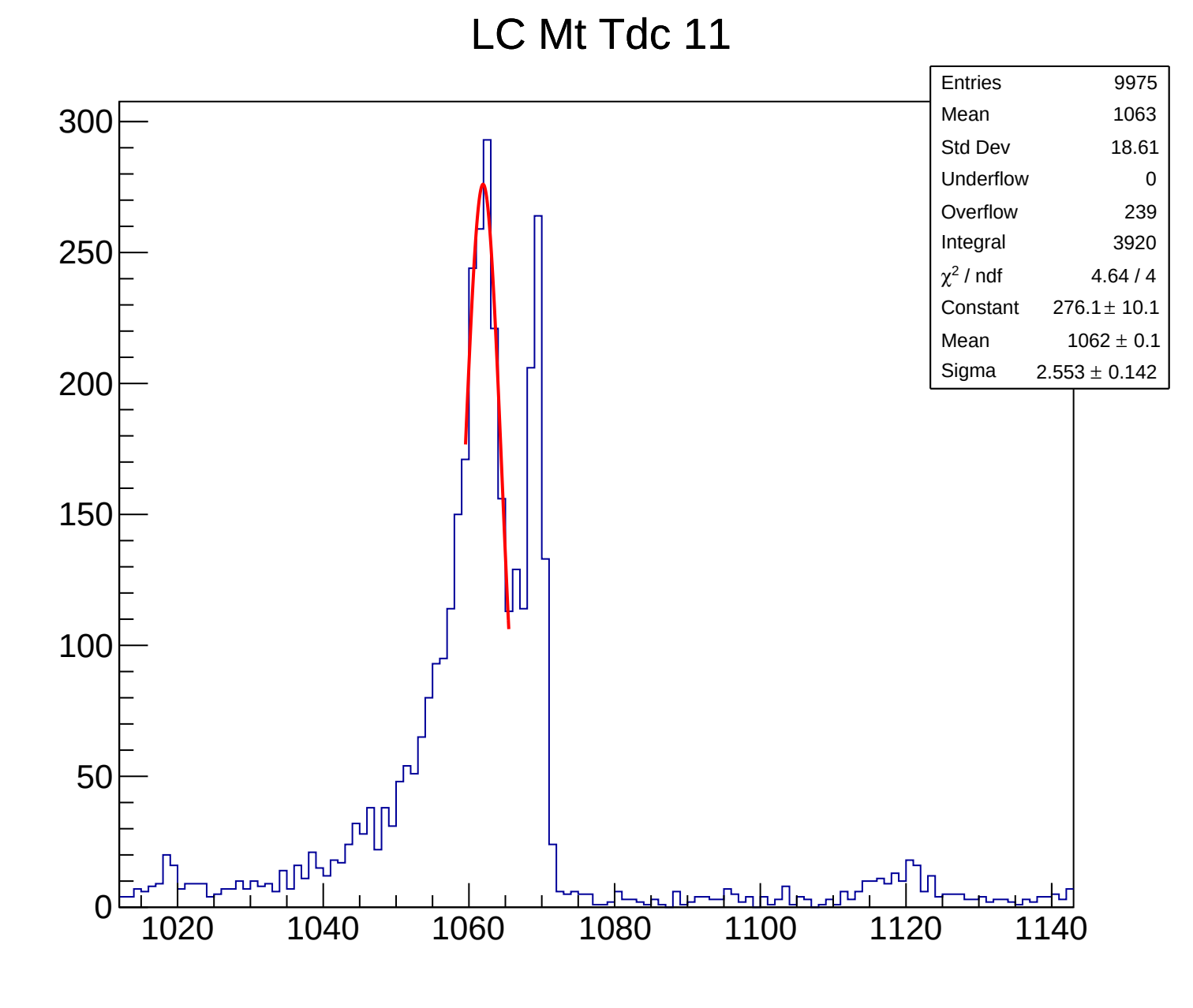

LC Mt Tdc 6
Entries 3683
Mean 1064
Std Dev 19.77
Underflow 0
Overflow 87
Integral 1587
χ² / ndf 53.72 / 4
Constant 161.1 ± 8.1
Mean 1066 ± 0.1
Sigma 1.588 ± 0.075
160
140
120
100
80
60
40
20
0
1020
1040
1060
1080
1100
1120
1140

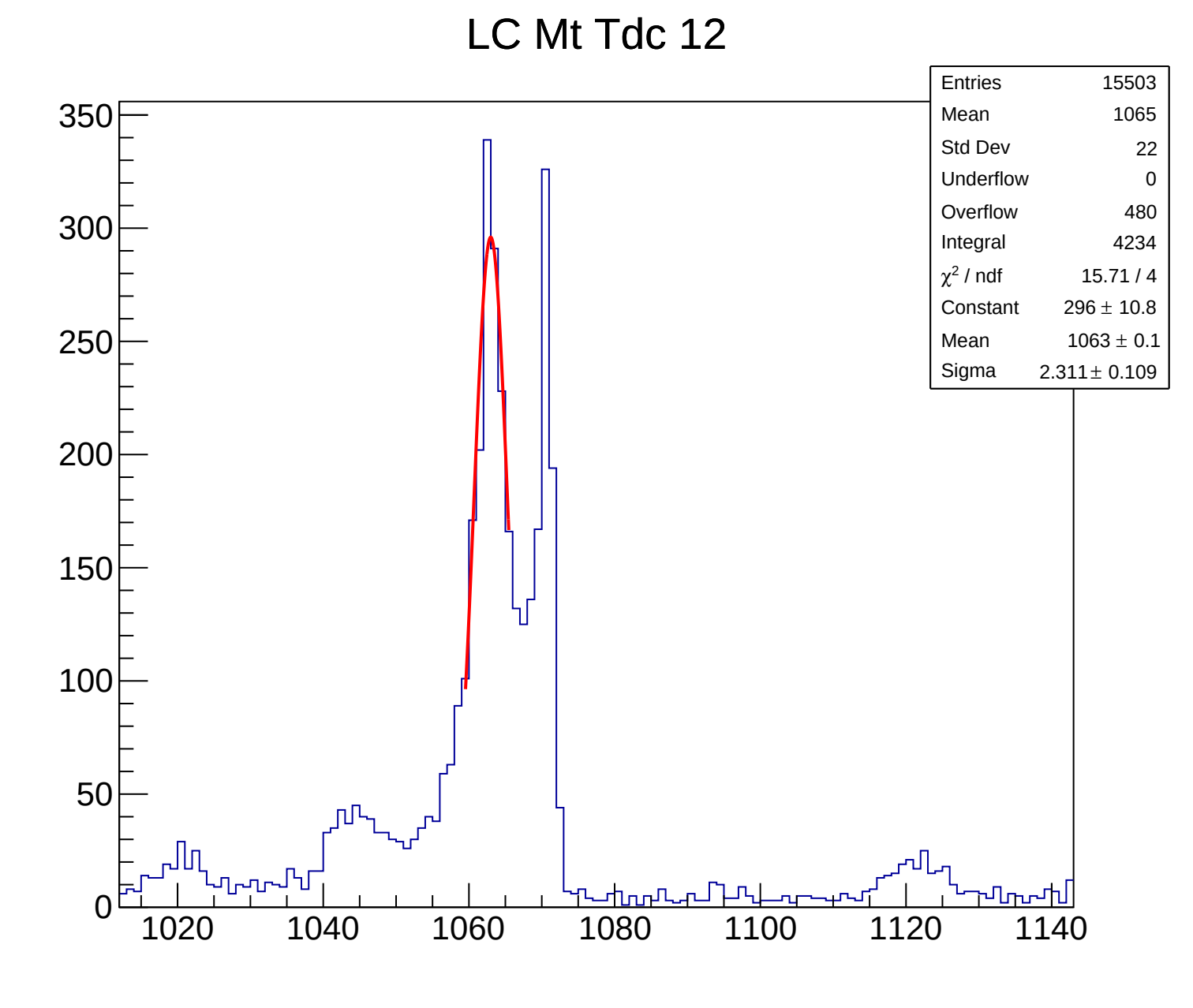

LC Mt Tdc 7
Entries 4006
Mean 1068
Std Dev 17.9
Underflow 0
Overflow 75
Integral 2005
χ² / ndf 167.2 / 4
Constant 205.3 ± 10.2
Mean 1070 ± 0.1
Sigma 1.527 ± 0.069
250
200
150
100
50
0
1020
1040
1060
1080
1100
1120
1140

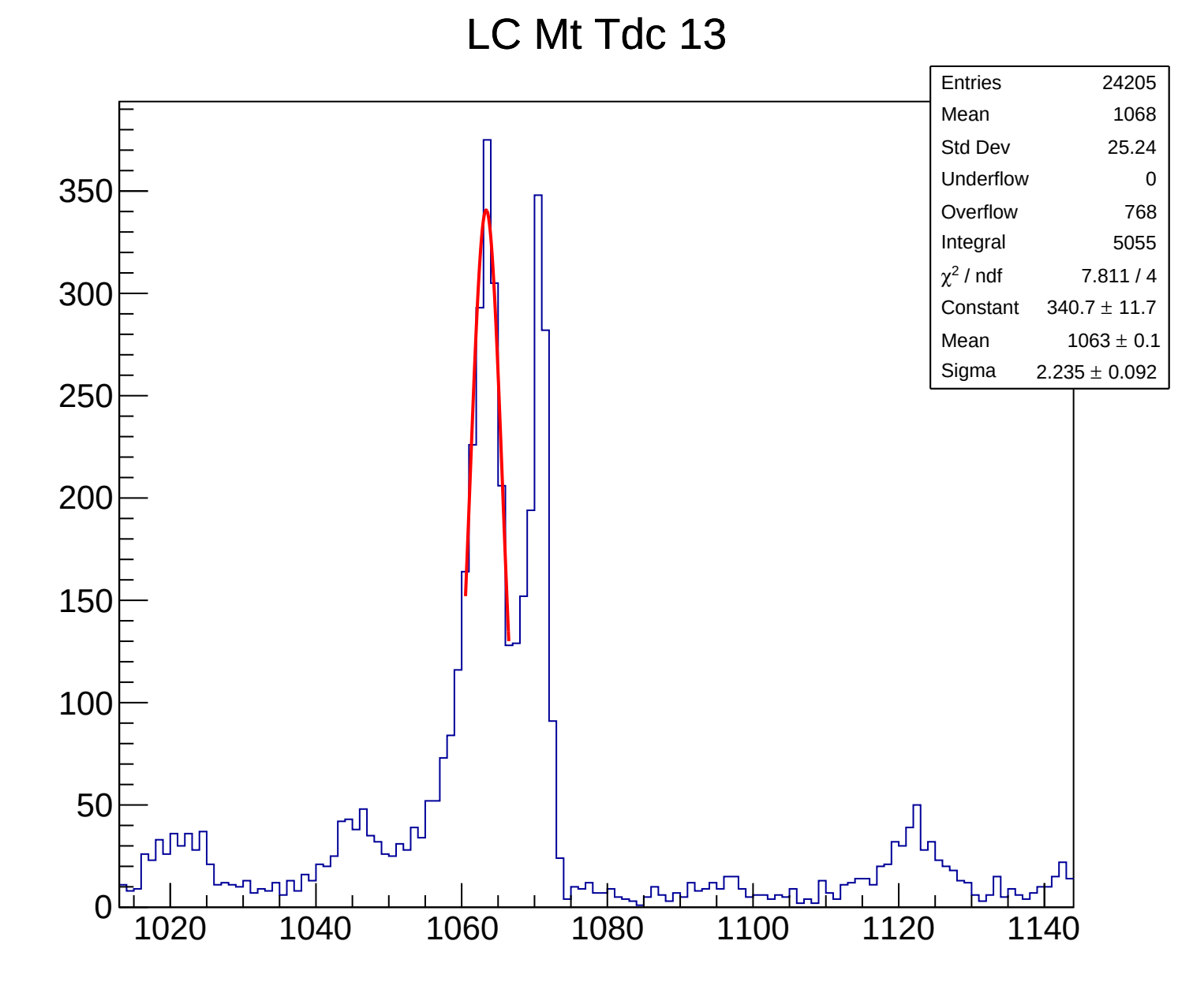

LC Mt Tdc 8
Entries 5282
Mean 1066
Std Dev 19.52
Underflow 0
Overflow 130
Integral 2396
χ² / ndf 61.16 / 4
Constant 179.9 ± 8.6
Mean 1070 ± 0.1
Sigma 1.689 ± 0.073
200
180
160
140
120
100
80
60
40
20
0
1020
1040
1060
1080
1100
1120
1140

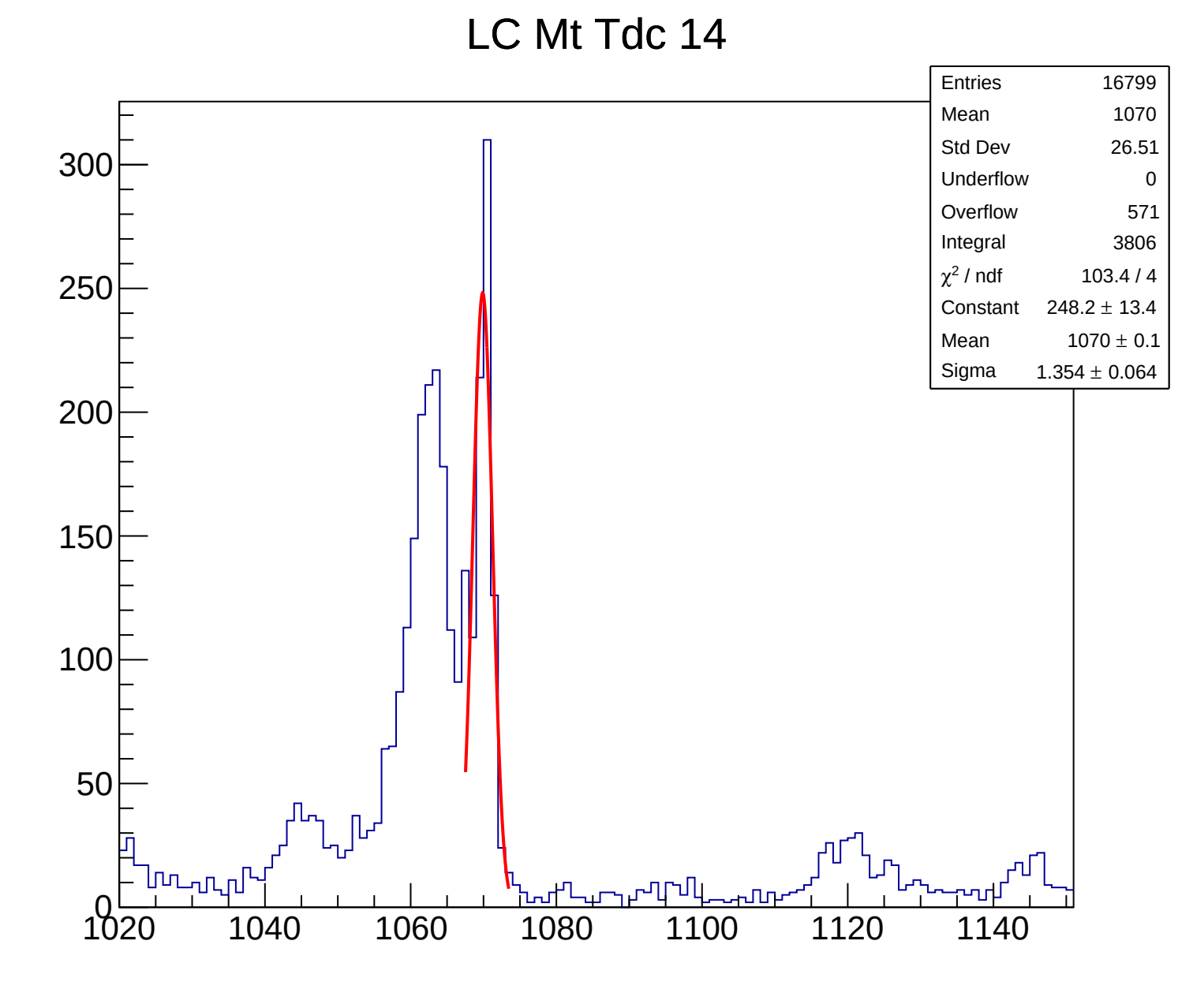

LC Mt Tdc 9
Entries 6135
Mean 1066
Std Dev 19.22
Underflow 0
Overflow 117
Integral 2754
χ² / ndf 91.73 / 4
Constant 193.5 ± 9.6
Mean 1070 ± 0.1
Sigma 1.553 ± 0.065
250
200
150
100
50
0
1020
1040
1060
1080
1100
1120
1140

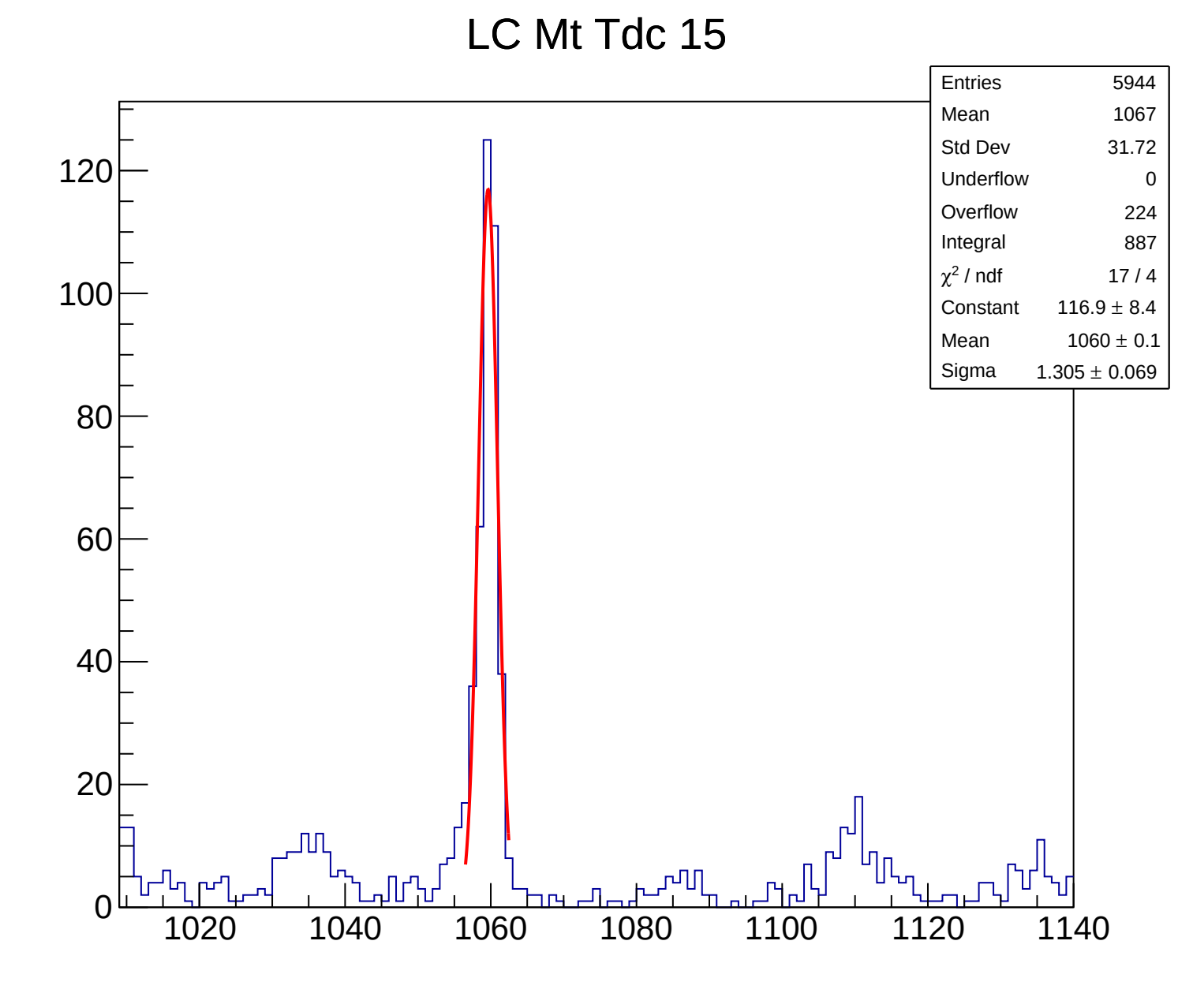

LC Mt Tdc 10
Entries 7791
Mean 1066
Std Dev 17.38
Underflow 0
Overflow 168
Integral 3242
χ² / ndf 2.607 / 4
Constant 252 ± 9.7
Mean 1065 ± 0.1
Sigma 2.546 ± 0.141
250
200
150
100
50
0
1020
1040
1060
1080
1100
1120
1140

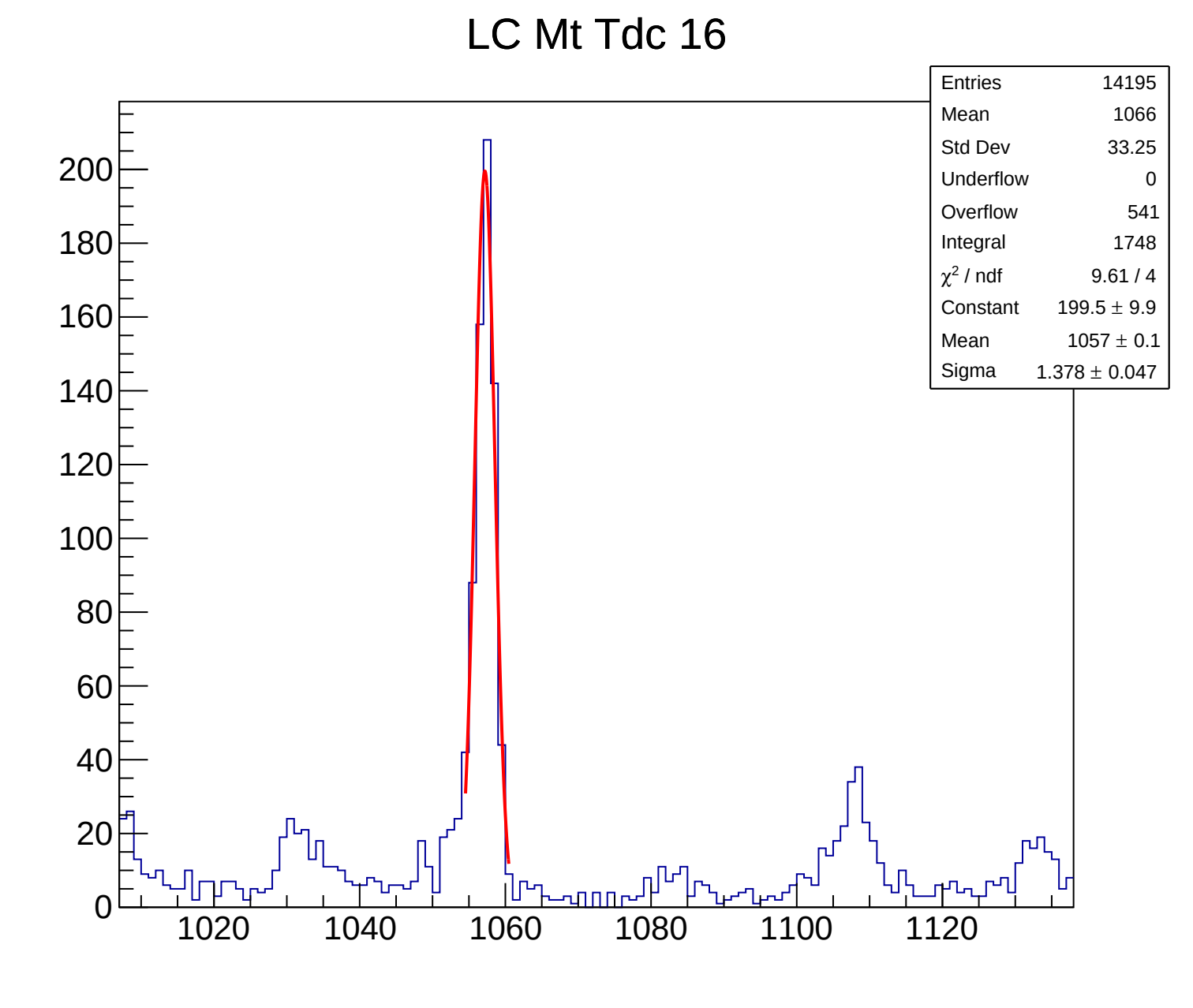

LC Mt Tdc 11
Entries 9975
Mean 1063
Std Dev 18.61
Underflow 0
Overflow 239
Integral 3920
χ² / ndf 4.64 / 4
Constant 276.1 ± 10.1
Mean 1062 ± 0.1
Sigma 2.553 ± 0.142
300
250
200
150
100
50
0
1020
1040
1060
1080
1100
1120
1140

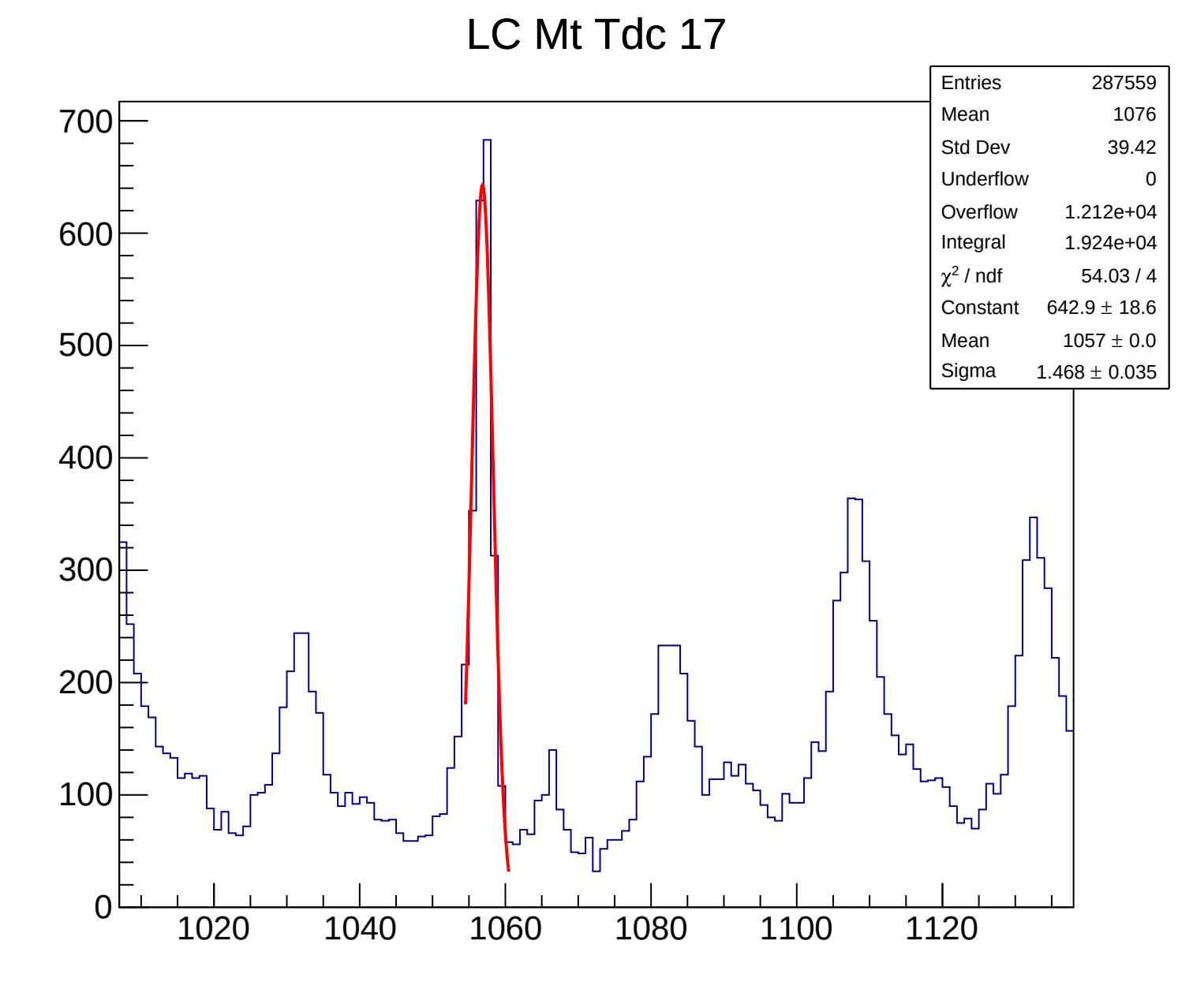

LC Mt Tdc 12
Entries 15503
Mean 1065
Std Dev 22
Underflow 0
Overflow 480
Integral 4234
χ² / ndf 15.71 / 4
Constant 296 ± 10.8
Mean 1063 ± 0.1
Sigma 2.311 ± 0.109
350
300
250
200
150
100
50
0
1020
1040
1060
1080
1100
1120
1140

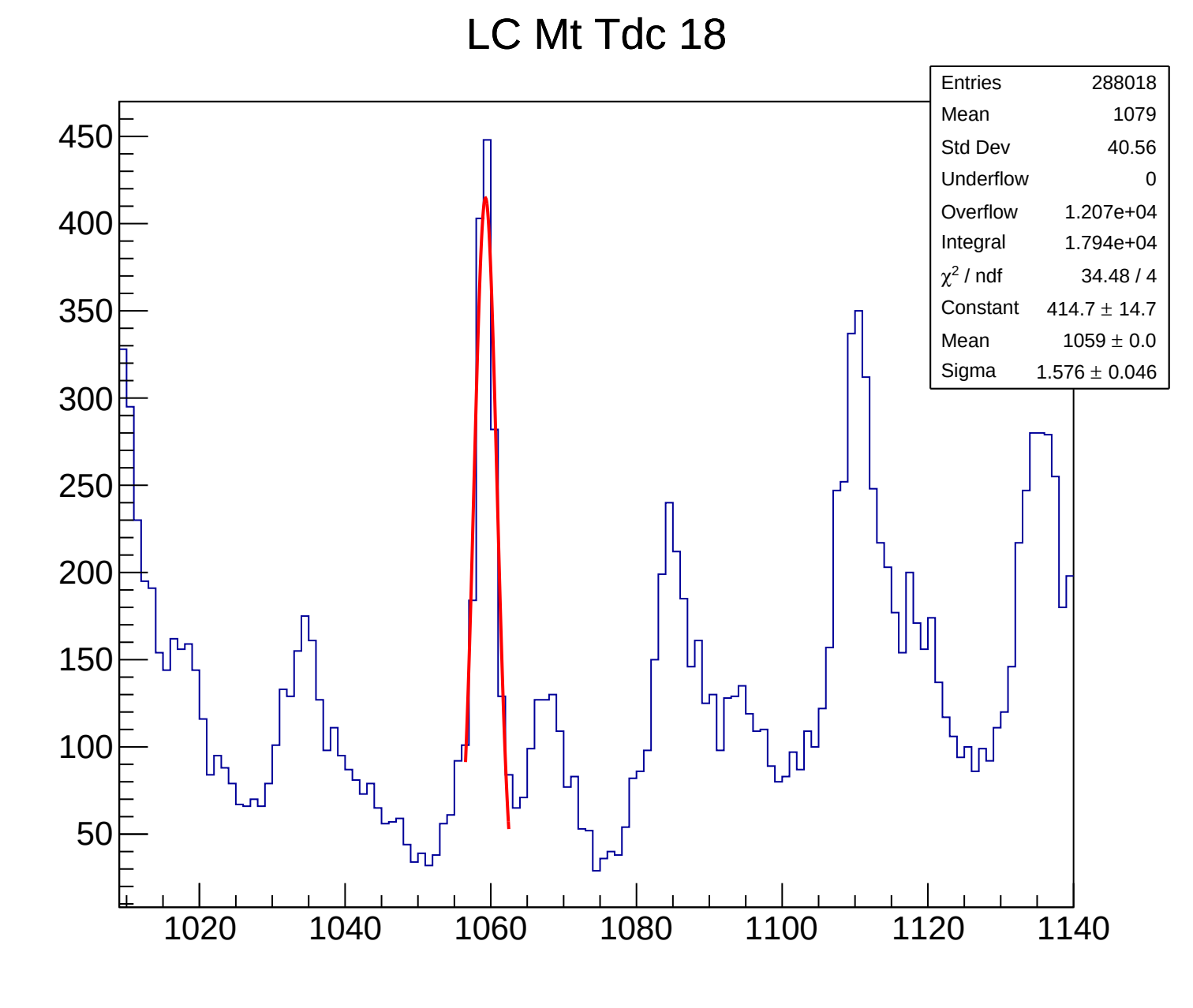

LC Mt Tdc 13
Entries 24205
Mean 1068
Std Dev 25.24
Underflow 0
Overflow 768
Integral 5055
χ² / ndf 7.811 / 4
Constant 340.7 ± 11.7
Mean 1063 ± 0.1
Sigma 2.235 ± 0.092
350
300
250
200
150
100
50
0
1020
1040
1060
1080
1100
1120
1140

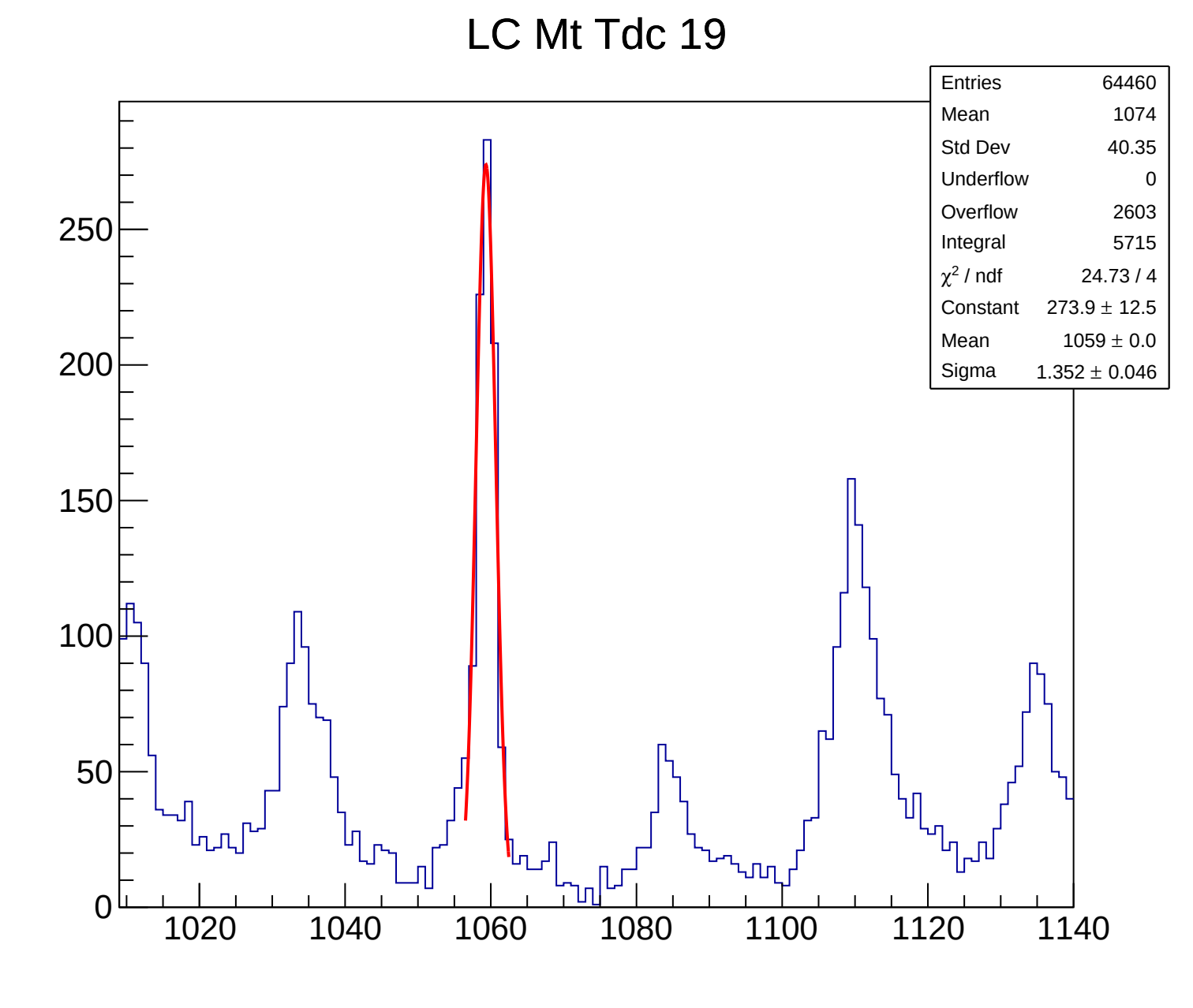

LC Mt Tdc 14
Entries 16799
Mean 1070
Std Dev 26.51
Underflow 0
Overflow 571
Integral 3806
χ² / ndf 103.4 / 4
Constant 248.2 ± 13.4
Mean 1070 ± 0.1
Sigma 1.354 ± 0.064
300
250
200
150
100
50
0
1020
1040
1060
1080
1100
1120
1140

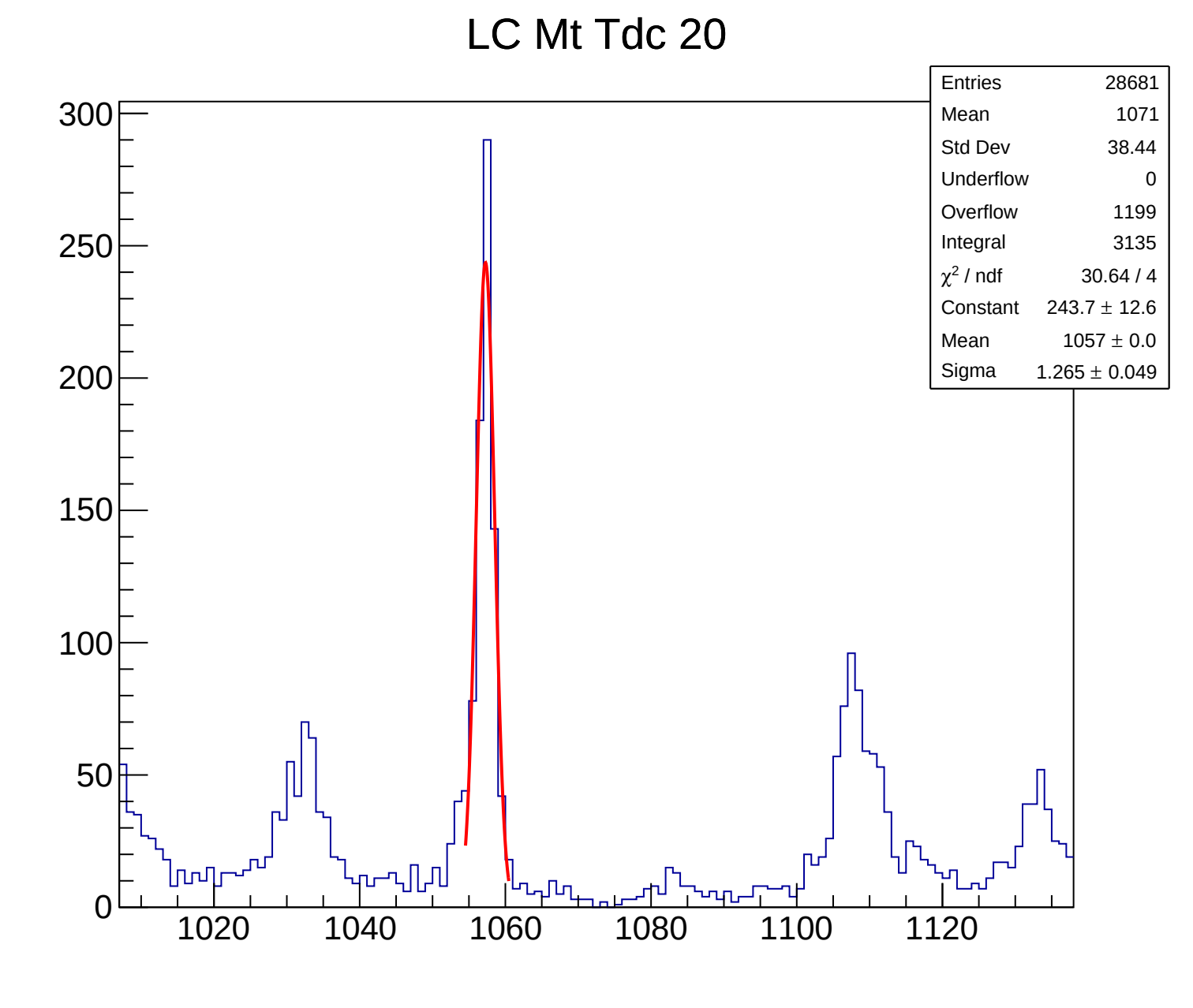

LC Mt Tdc 15
Entries 5944
Mean 1067
Std Dev 31.72
Underflow 0
Overflow 224
Integral 887
χ² / ndf 17 / 4
Constant 116.9 ± 8.4
Mean 1060 ± 0.1
Sigma 1.305 ± 0.069
120
100
80
60
40
20
0
1020
1040
1060
1080
1100
1120
1140

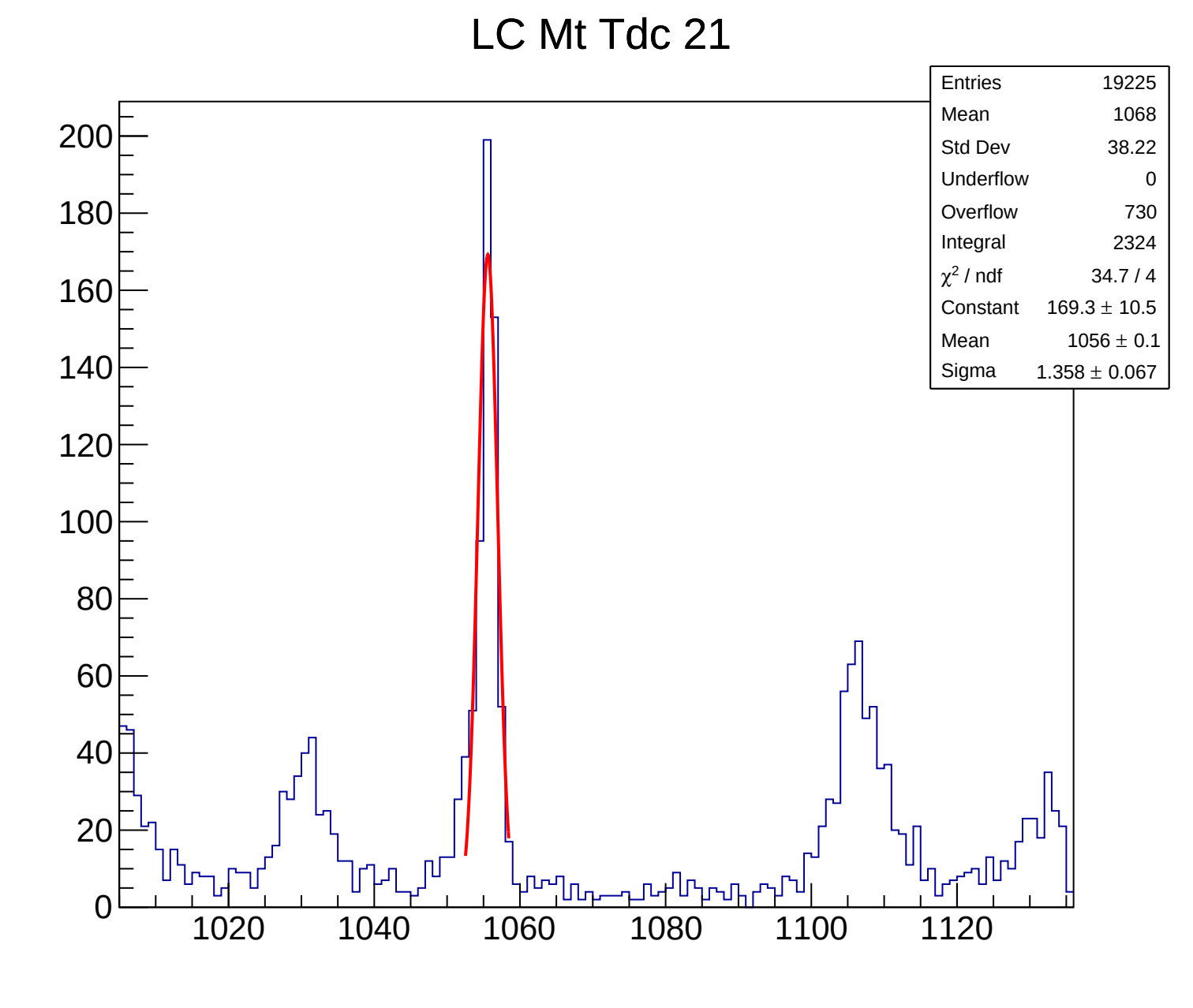

LC Mt Tdc 16
Entries 14195
Mean 1066
Std Dev 33.25
Underflow 0
Overflow 541
Integral 1748
χ² / ndf 9.61 / 4
Constant 199.5 ± 9.9
Mean 1057 ± 0.1
Sigma 1.378 ± 0.047
200
180
160
140
120
100
80
60
40
20
0
1020
1040
1060
1080
1100
1120

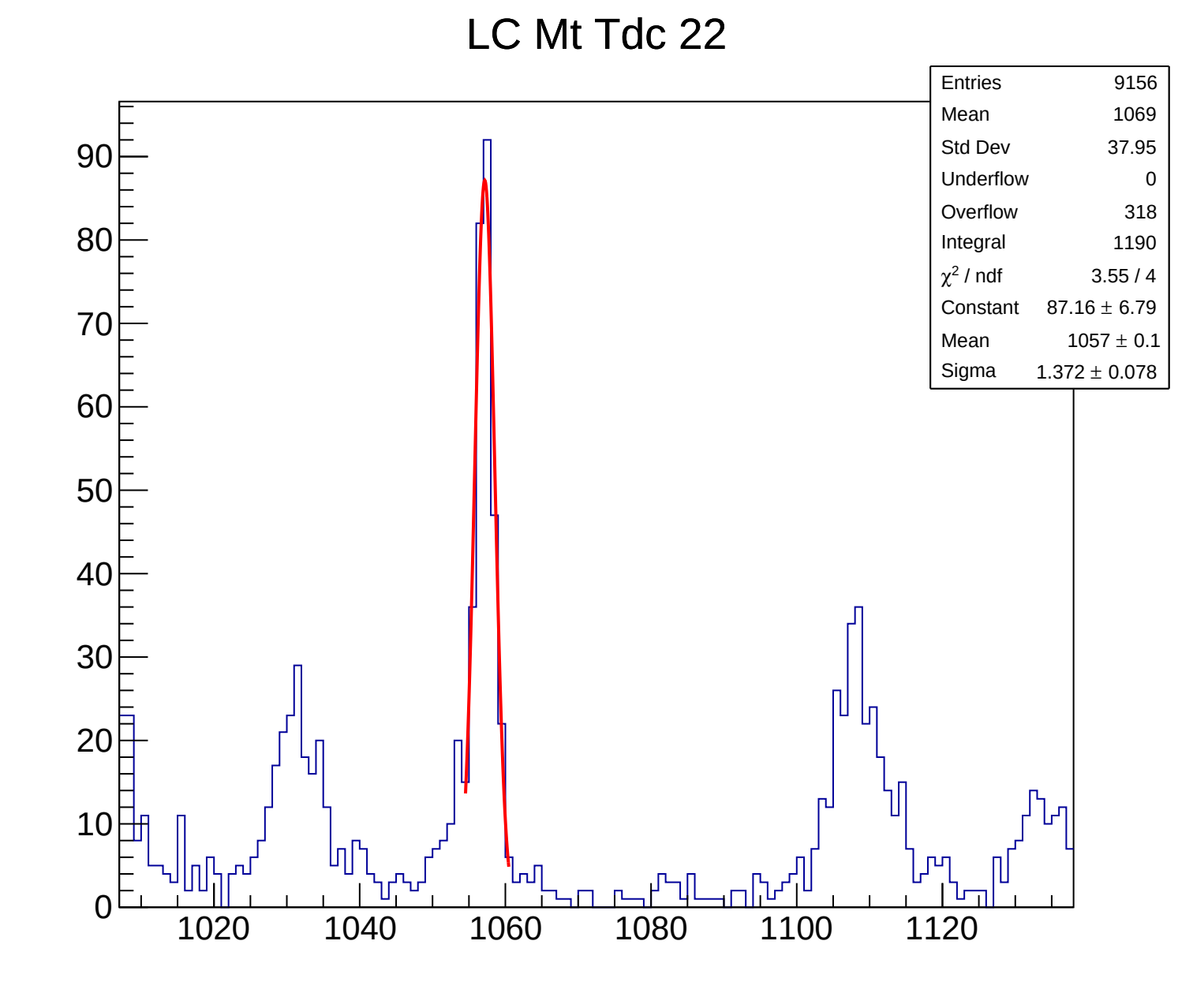

LC Mt Tdc 17
Entries 287559
Mean 1076
Std Dev 39.42
Underflow 0
Overflow 1.212e+04
Integral 1.924e+04
χ² / ndf 54.03 / 4
Constant 642.9 ± 18.6
Mean 1057 ± 0.0
Sigma 1.468 ± 0.035
700
600
500
400
300
200
100
0
1020
1040
1060
1080
1100
1120

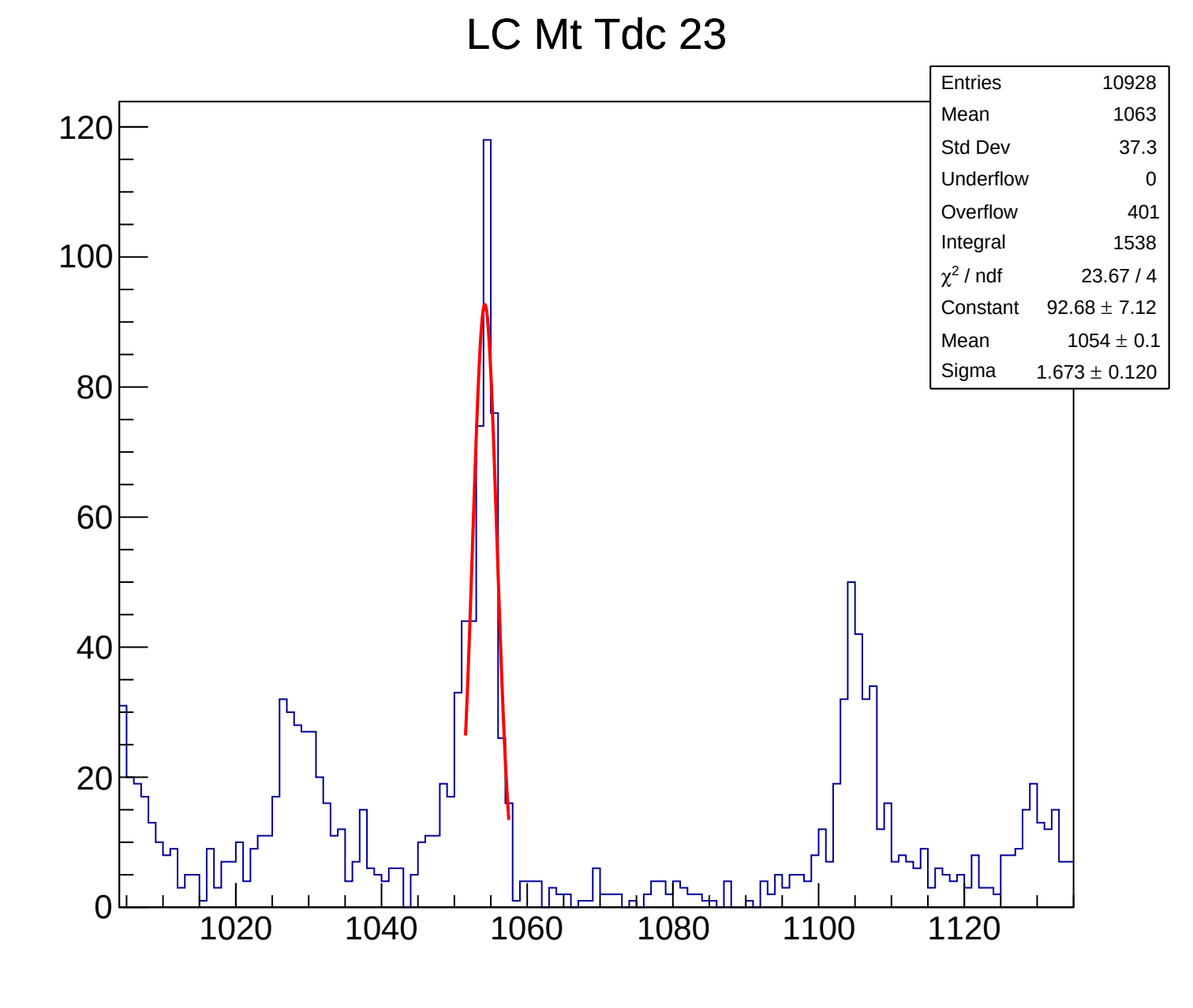

LC Mt Tdc 18
Entries 288018
Mean 1079
Std Dev 40.56
Underflow 0
Overflow 1.207e+04
Integral 1.794e+04
χ² / ndf 34.48 / 4
Constant 414.7 ± 14.7
Mean 1059 ± 0.0
Sigma 1.576 ± 0.046
450
400
350
300
250
200
150
100
50
1020
1040
1060
1080
1100
1120
1140

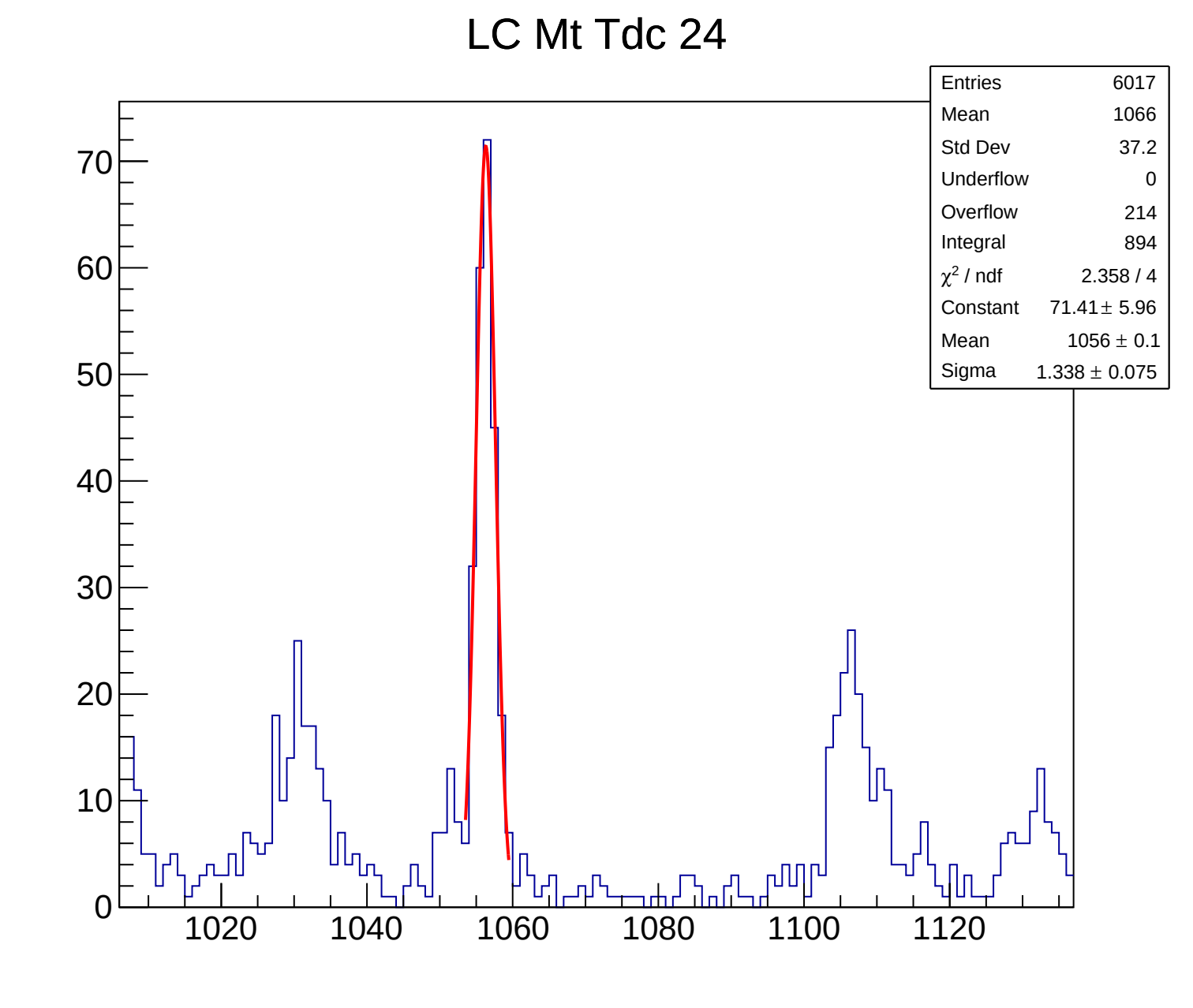

LC Mt Tdc 19
Entries 64460
Mean 1074
Std Dev 40.35
Underflow 0
Overflow 2603
Integral 5715
χ² / ndf 24.73 / 4
Constant 273.9 ± 12.5
Mean 1059 ± 0.0
Sigma 1.352 ± 0.046
250
200
150
100
50
0
1020
1040
1060
1080
1100
1120
1140

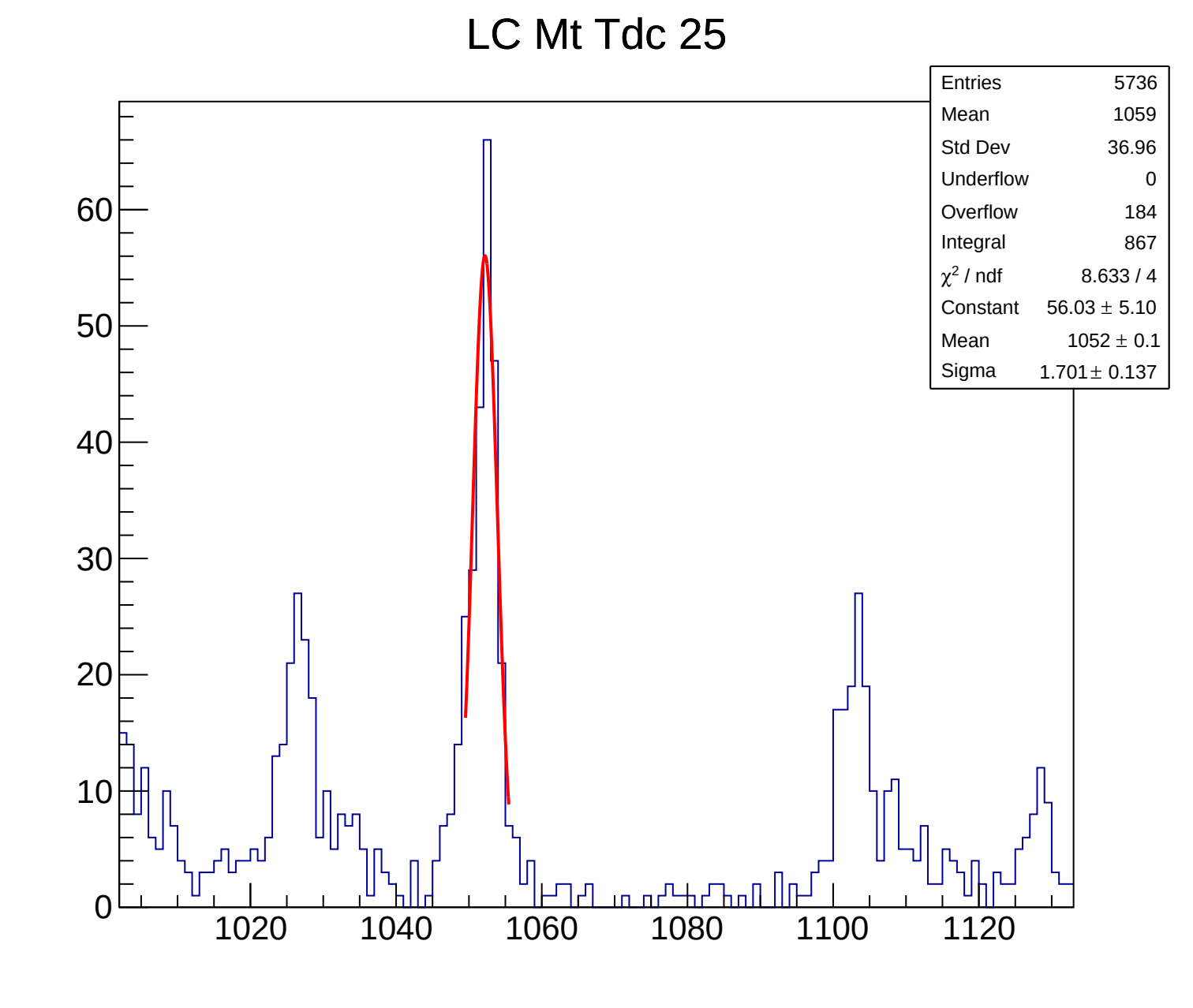

LC Mt Tdc 20
Entries 28681
Mean 1071
Std Dev 38.44
Underflow 0
Overflow 1199
Integral 3135
χ² / ndf 30.64 / 4
Constant 243.7 ± 12.6
Mean 1057 ± 0.0
Sigma 1.265 ± 0.049
300
250
200
150
100
50
0
1020
1040
1060
1080
1100
1120

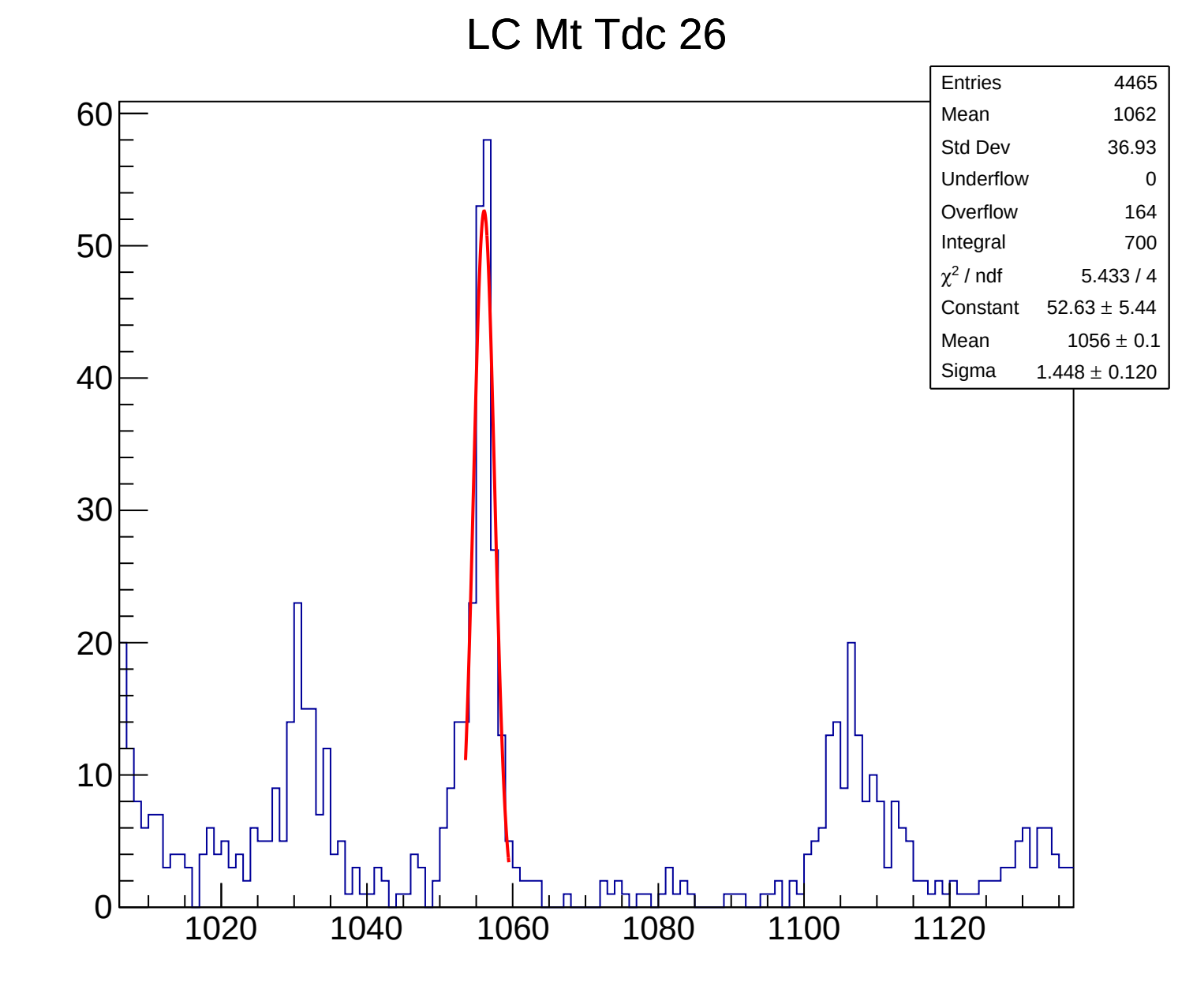

LC Mt Tdc 21
Entries 19225
Mean 1068
Std Dev 38.22
Underflow 0
Overflow 730
Integral 2324
χ² / ndf 34.7 / 4
Constant 169.3 ± 10.5
Mean 1056 ± 0.1
Sigma 1.358 ± 0.067
200
180
160
140
120
100
80
60
40
20
0
1020
1040
1060
1080
1100
1120

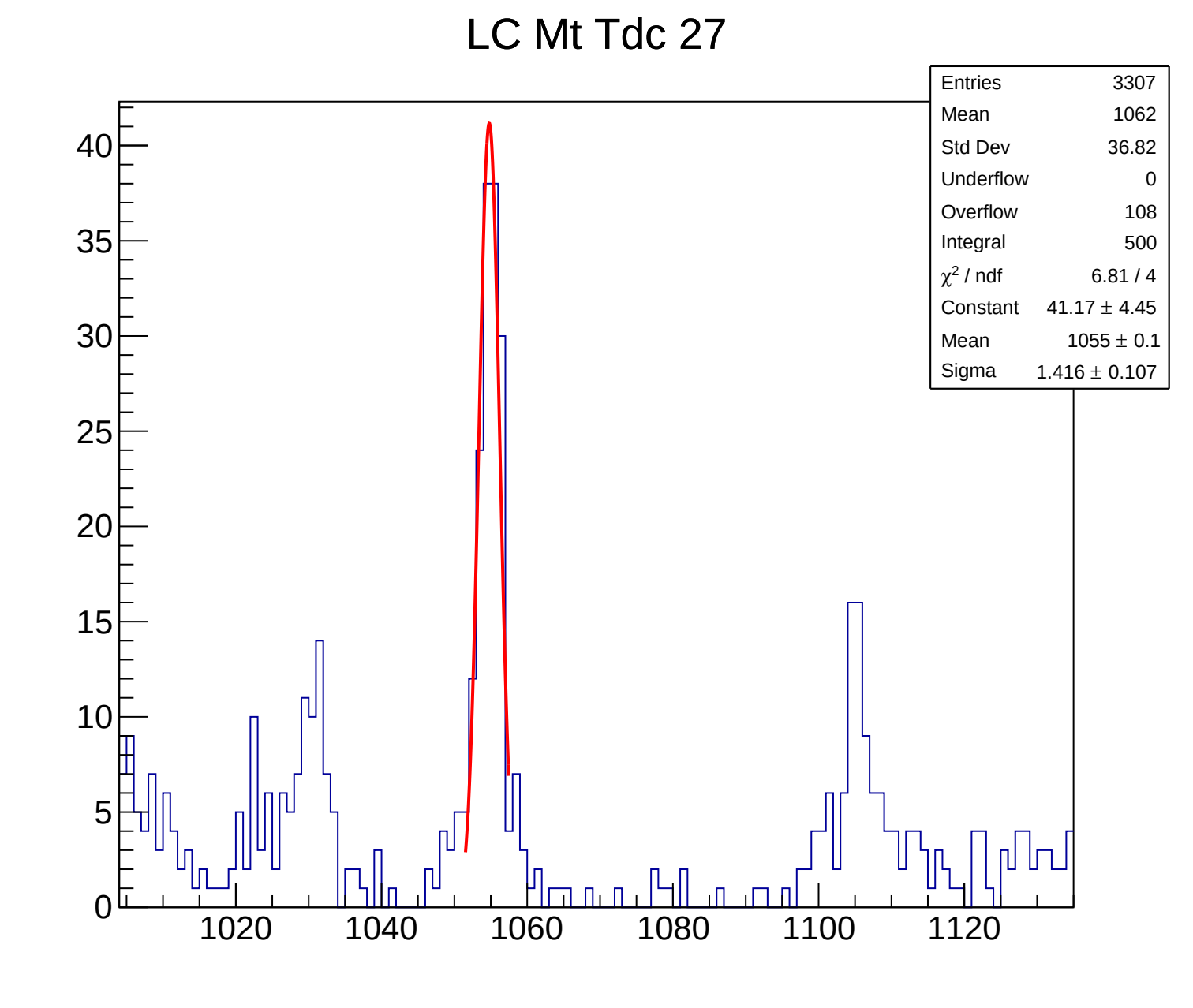

LC Mt Tdc 22
Entries 9156
Mean 1069
Std Dev 37.95
Underflow 0
Overflow 318
Integral 1190
χ² / ndf 3.55 / 4
Constant 87.16 ± 6.79
Mean 1057 ± 0.1
Sigma 1.372 ± 0.078
0
10
20
30
40
50
60
70
80
90
1020
1040
1060
1080
1100
1120

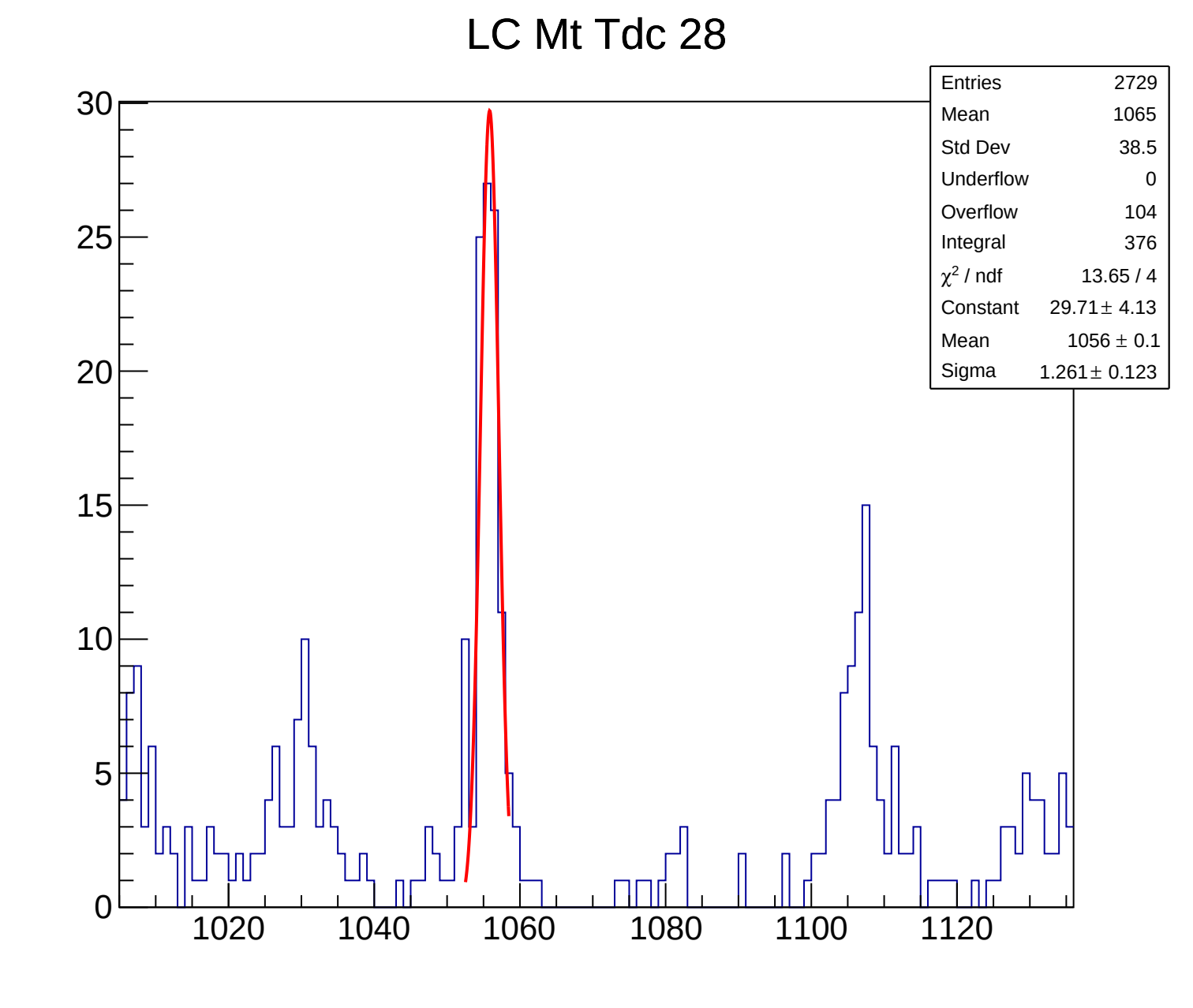

LC Mt Tdc 23
Entries 10928
Mean 1063
Std Dev 37.3
Underflow 0
Overflow 401
Integral 1538
χ² / ndf 23.67 / 4
Constant 92.68 ± 7.12
Mean 1054 ± 0.1
Sigma 1.673 ± 0.120
120
100
80
60
40
20
0
1020
1040
1060
1080
1100
1120

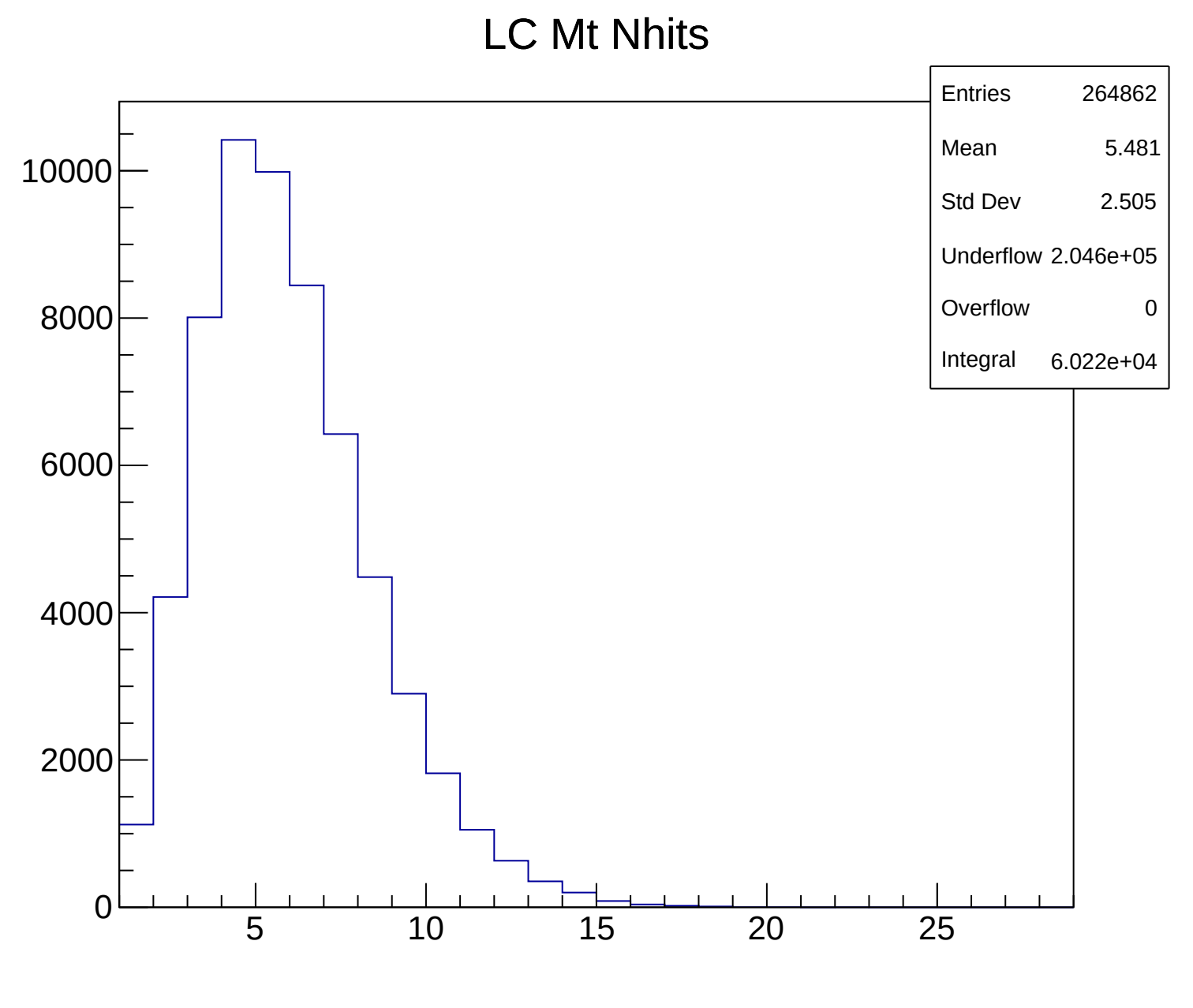

LC Mt Tdc 24
Entries 6017
Mean 1066
Std Dev 37.2
Underflow 0
Overflow 214
Integral 894
χ² / ndf 2.358 / 4
Constant 71.41 ± 5.96
Mean 1056 ± 0.1
Sigma 1.338 ± 0.075
70
60
50
40
30
20
10
0
1020
1040
1060
1080
1100
1120

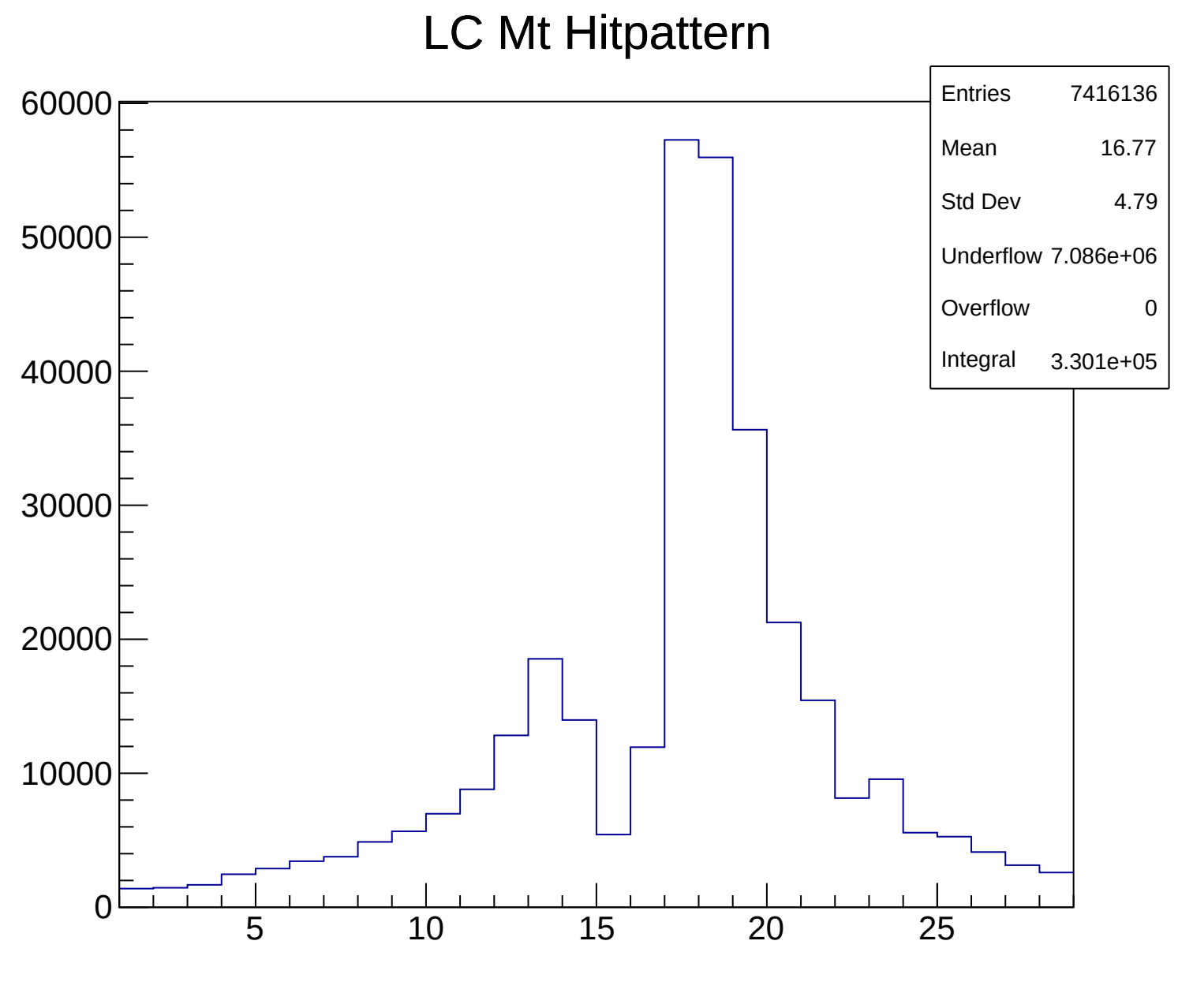

LC Mt Tdc 25
Entries 5736
Mean 1059
Std Dev 36.96
Underflow 0
Overflow 184
Integral 867
χ² / ndf 8.633 / 4
Constant 56.03 ± 5.10
Mean 1052 ± 0.1
Sigma 1.701 ± 0.137
0
10
20
30
40
50
60
1020
1040
1060
1080
1100
1120

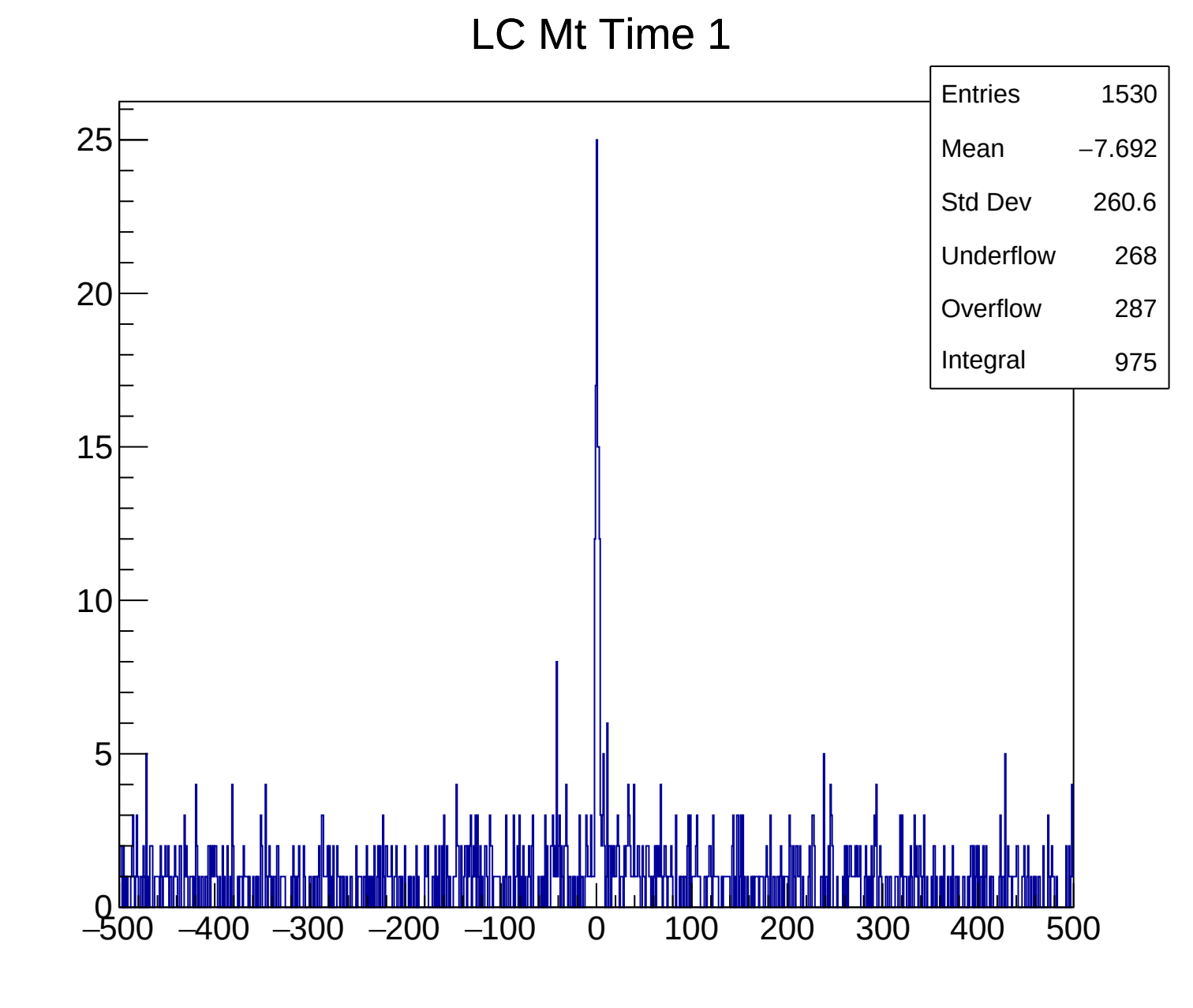

LC Mt Tdc 26
Entries 4465
Mean 1062
Std Dev 36.93
Underflow 0
Overflow 164
Integral 700
χ² / ndf 5.433 / 4
Constant 52.63 ± 5.44
Mean 1056 ± 0.1
Sigma 1.448 ± 0.120
60
50
40
30
20
10
0
1020
1040
1060
1080
1100
1120

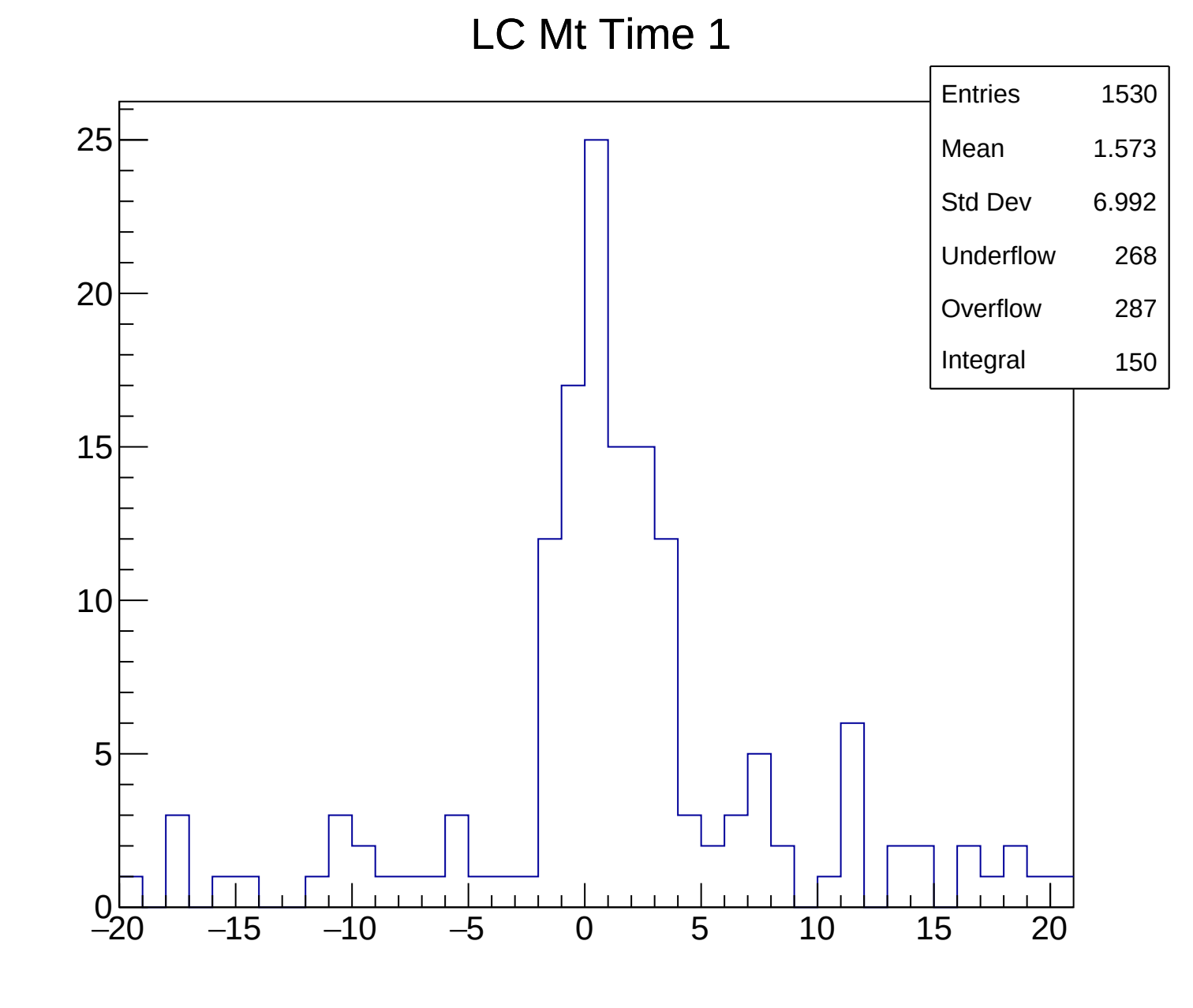

LC Mt Tdc 27
Entries 3307
Mean 1062
Std Dev 36.82
Underflow 0
Overflow 108
Integral 500
χ² / ndf 6.81 / 4
Constant 41.17 ± 4.45
Mean 1055 ± 0.1
Sigma 1.416 ± 0.107
40
35
30
25
20
15
10
5
0
1020
1040
1060
1080
1100
1120

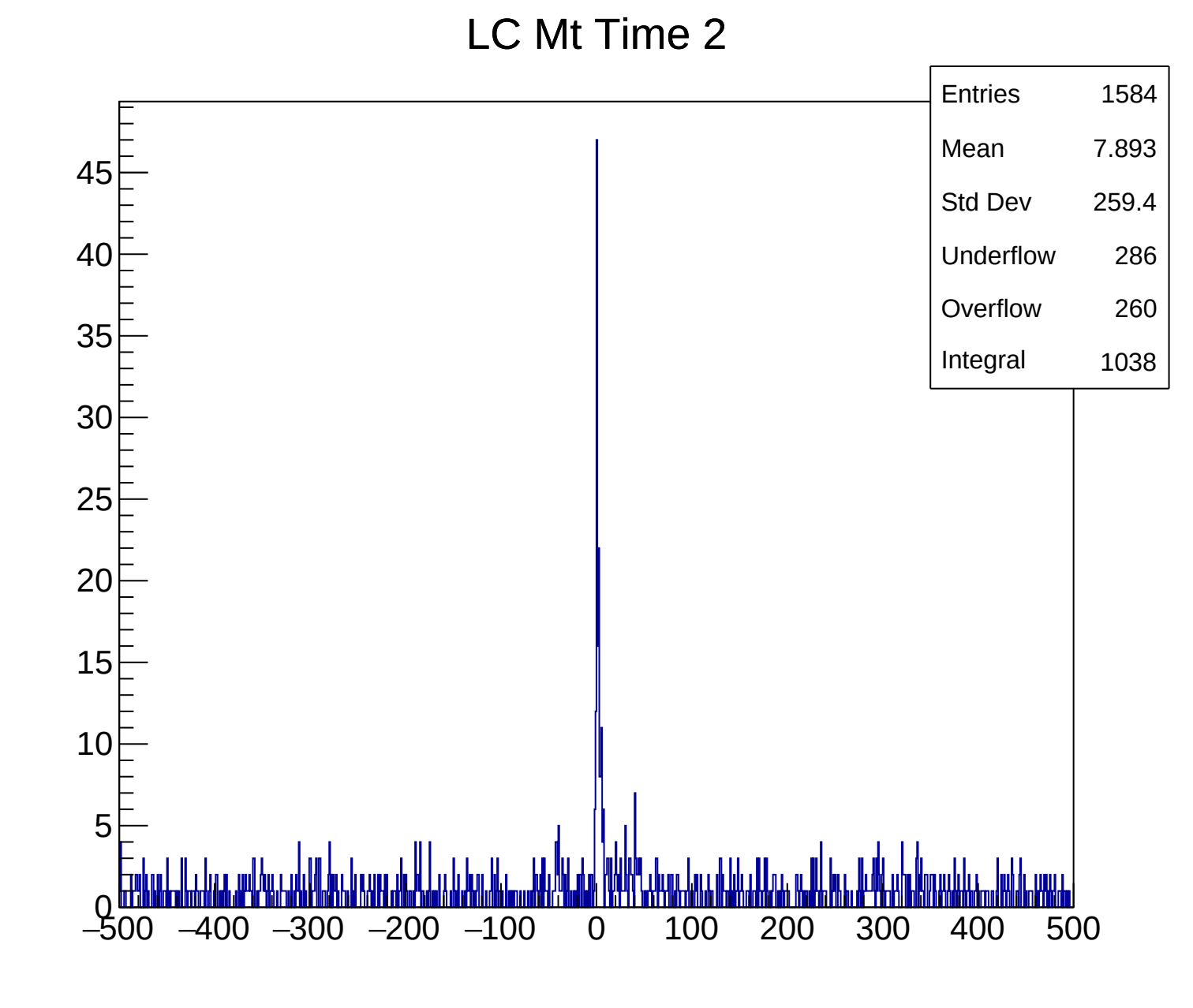

LC Mt Tdc 28
Entries 2729
Mean 1065
Std Dev 38.5
Underflow 0
Overflow 104
Integral 376
χ² / ndf 13.65 / 4
Constant 29.71± 4.13
Mean 1056 ± 0.1
Sigma 1.261± 0.123
30
25
20
15
10
5
0
1020
1040
1060
1080
1100
1120


LC Mt Nhits
Entries 264862
Mean 5.481
Std Dev 2.505
Underflow 2.046e+05
Overflow 0
Integral 6.022e+04
10000
8000
6000
4000
2000
0
5
10
15
20
25


LC Mt Hitpattern
Entries 7416136
Mean 16.77
Std Dev 4.79
Underflow 7.086e+06
Overflow 0
Integral 3.301e+05
60000
50000
40000
30000
20000
10000
0
5
10
15
20
25


LC Mt Time 1
Entries 1530
Mean −7.692
Std Dev 260.6
Underflow 268
Overflow 287
Integral 975
25
20
15
10
5
0
−500
−400
−300
−200
−100
0
100
200
300
400
500


LC Mt Time 1
Entries 1530
Mean 1.573
Std Dev 6.992
Underflow 268
Overflow 287
Integral 150
25
20
15
10
5
0
–20
–15
–10
–5
0
5
10
15
20


LC Mt Time 2
Entries 1584
Mean 7.893
Std Dev 259.4
Underflow 286
Overflow 260
Integral 1038
45
40
35
30
25
20
15
10
5
0
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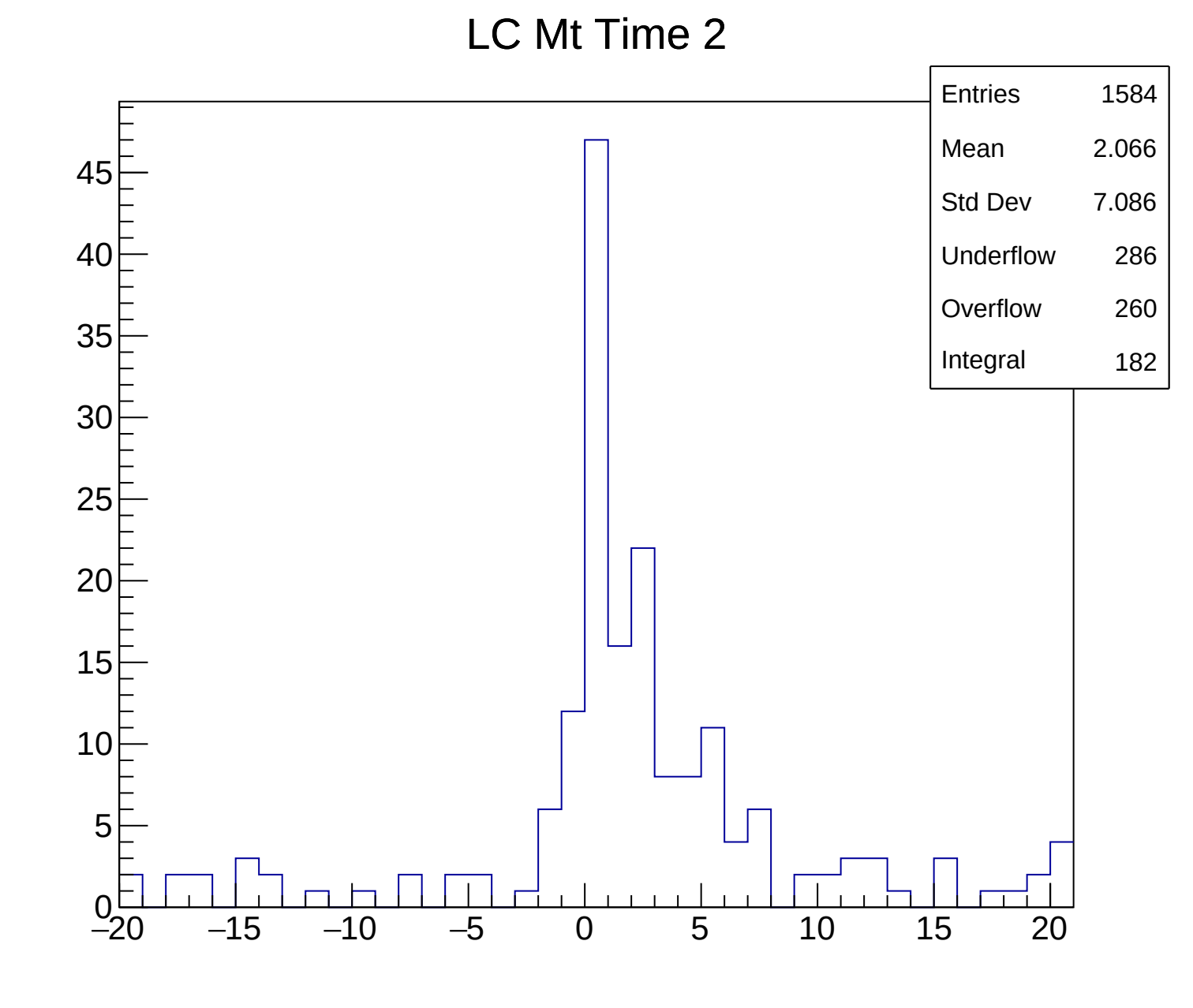
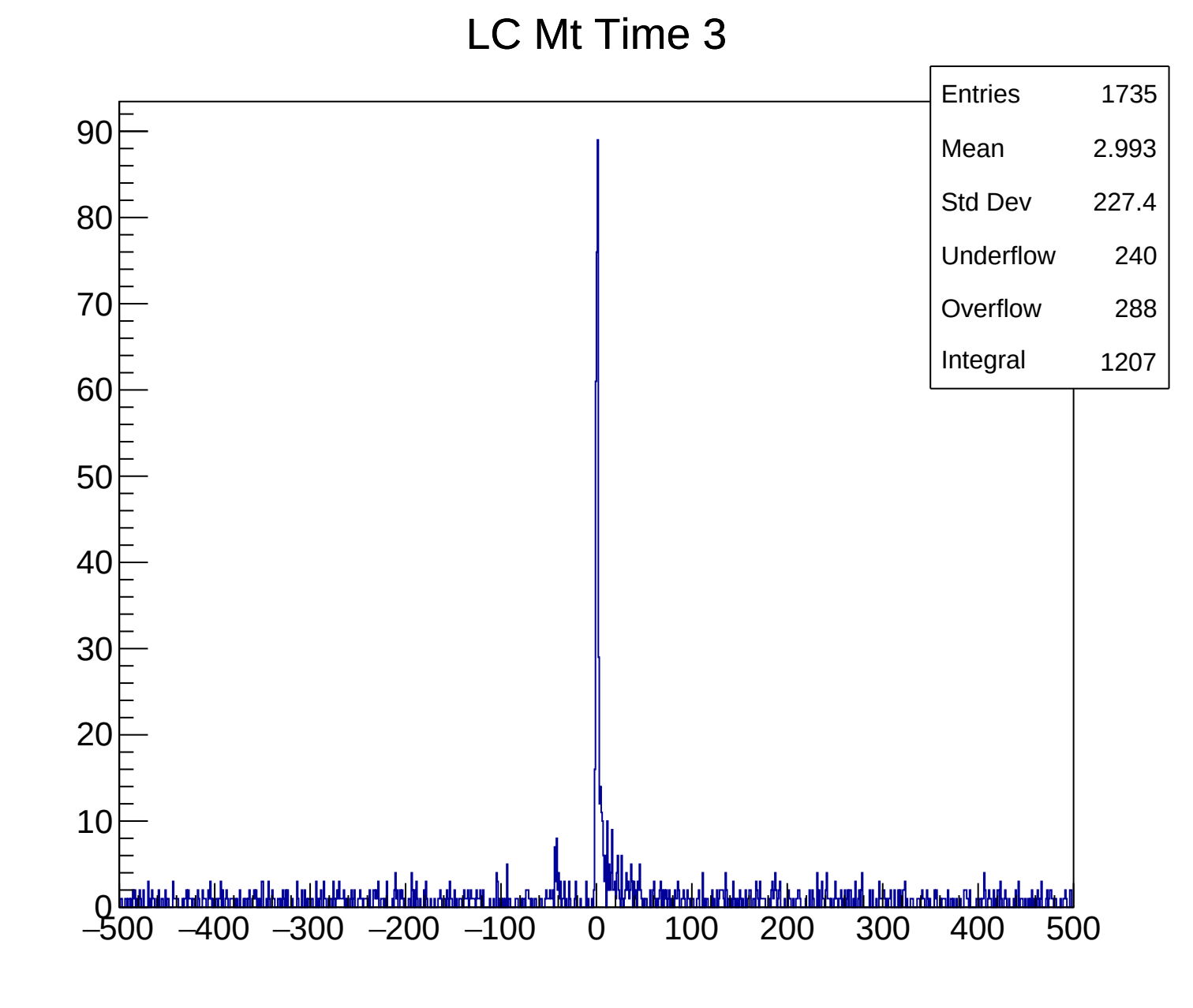
–400
–300
–200
–100
0
100
200
300
400
500


LC Mt Time 2
Entries 1584
Mean 2.066
Std Dev 7.086
Underflow 286
Overflow 260
Integral 182
45
40
35
30
25
20
15
10
5
0
–20
–15
–10
–5
0
5
10
15
20


LC Mt Time 3
Entries 1735
Mean 2.993
Std Dev 227.4
Underflow 240
Overflow 288
Integral 1207
90
80
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60
50
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–400
–300
–200
–100
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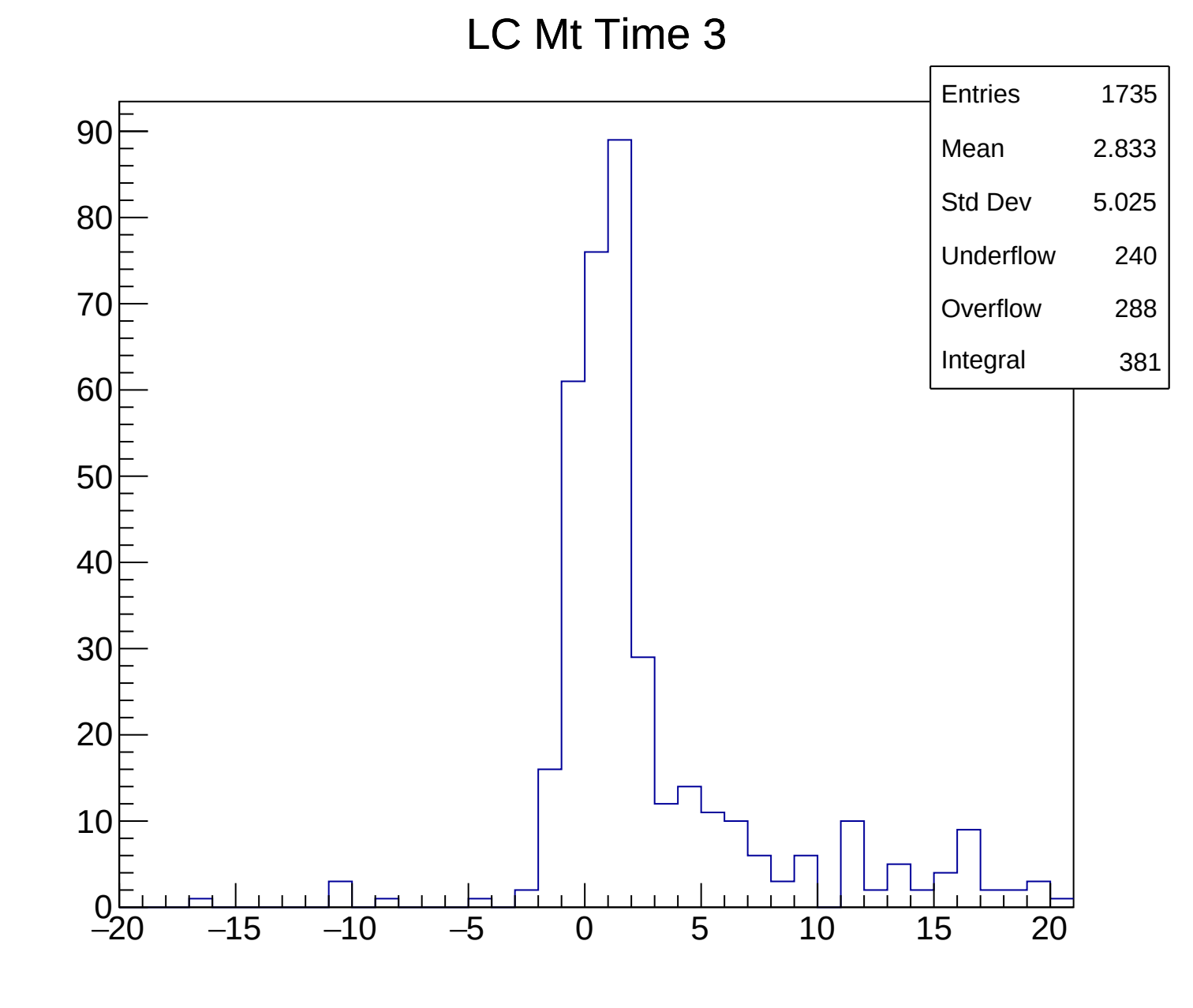
100
200
300
400
500


LC Mt Time 3
Entries 1735
Mean 2.833
Std Dev 5.025
Underflow 240
Overflow 288
Integral 381
90
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50
40
30
20
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0
–20
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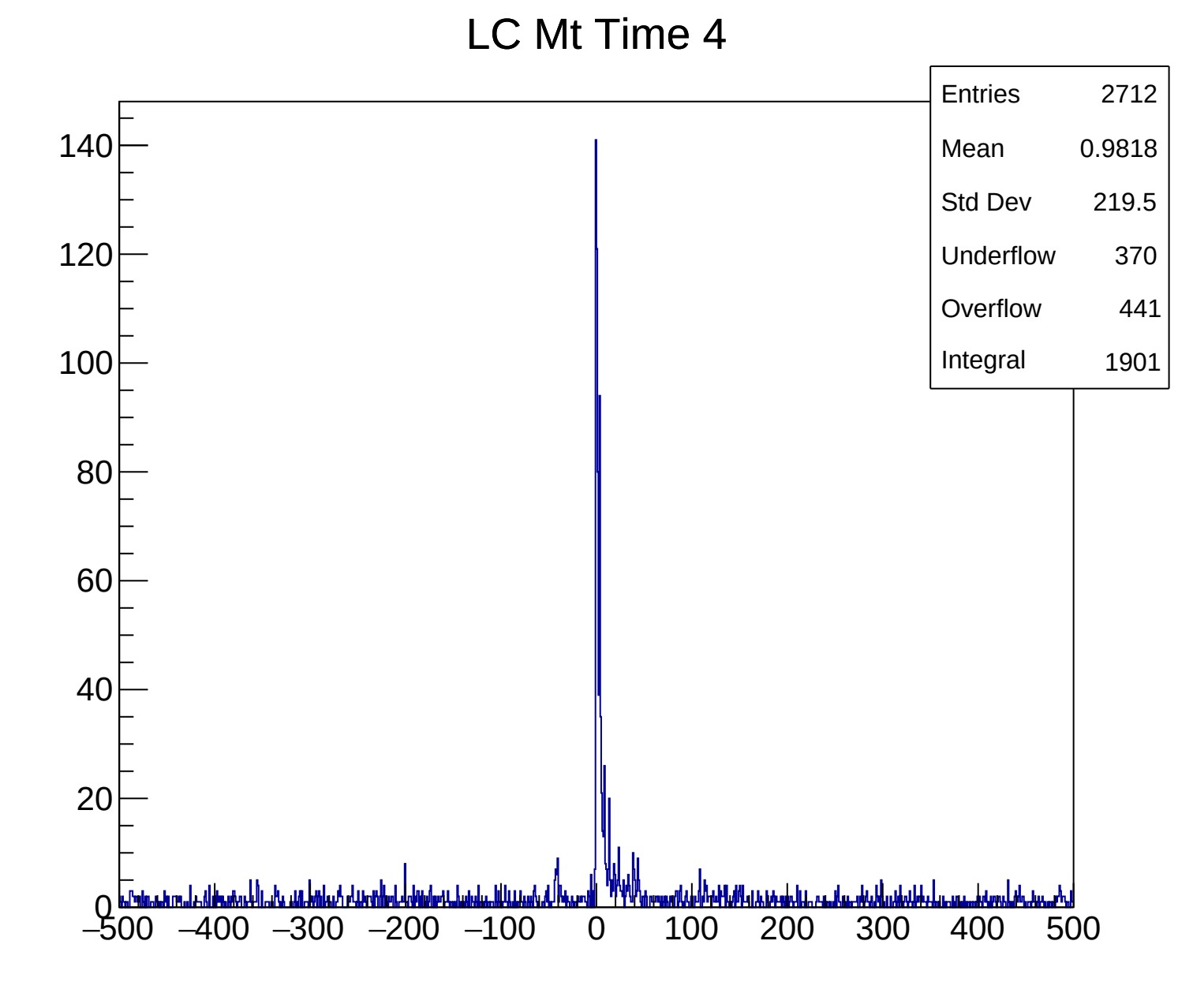
–10
–5
0
5
10
15
20


LC Mt Time 4
Entries 2712
Mean 0.9818
Std Dev 219.5
Underflow 370
Overflow 441
Integral 1901
140
120
100
80
60
40
20
0
–500
–400
–300
–200
–100
0
100
200
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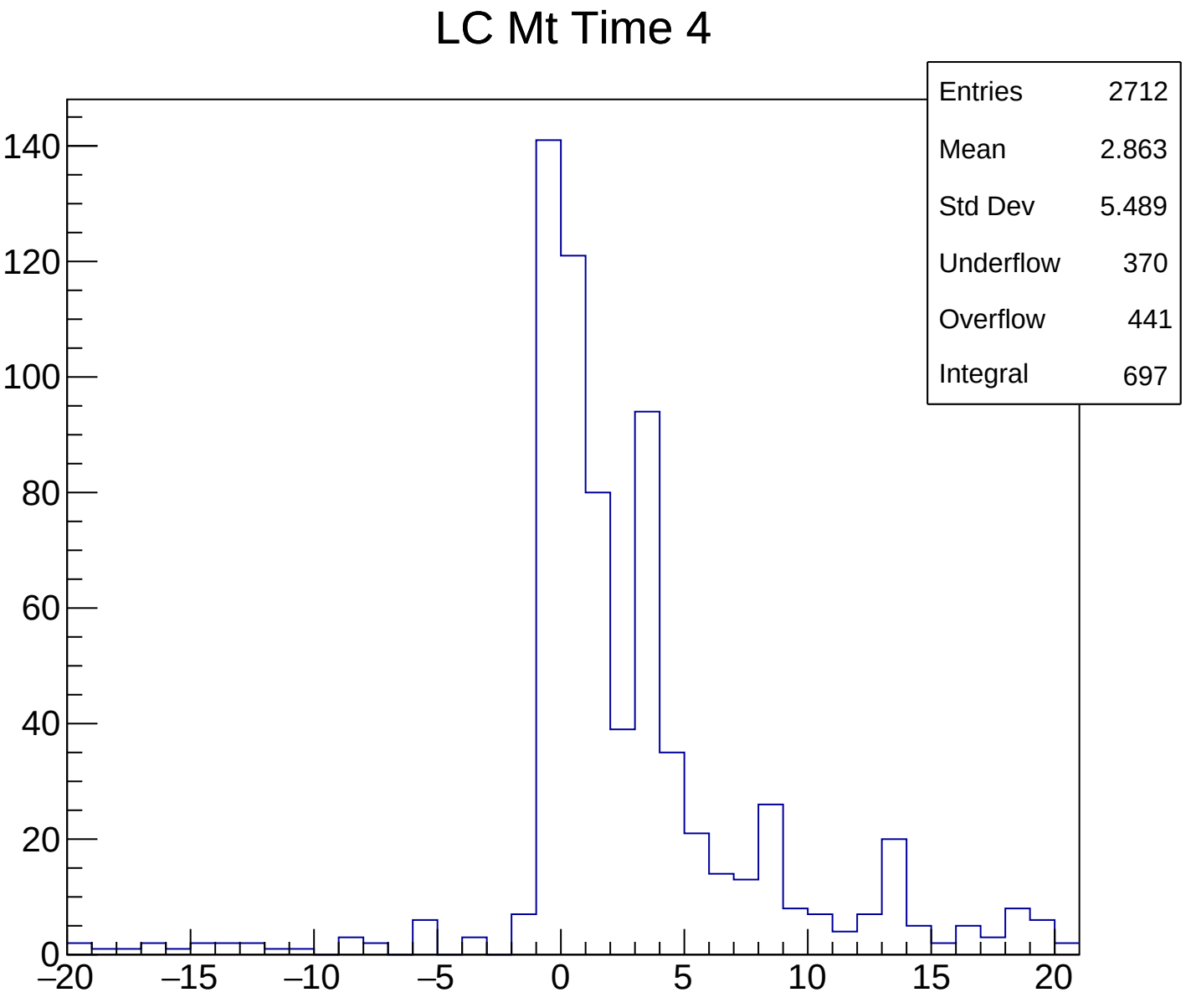
LC Mt Time 4
Entries 2712
Mean 2.863
Std Dev 5.489
Underflow 370
Overflow 441
Integral 697
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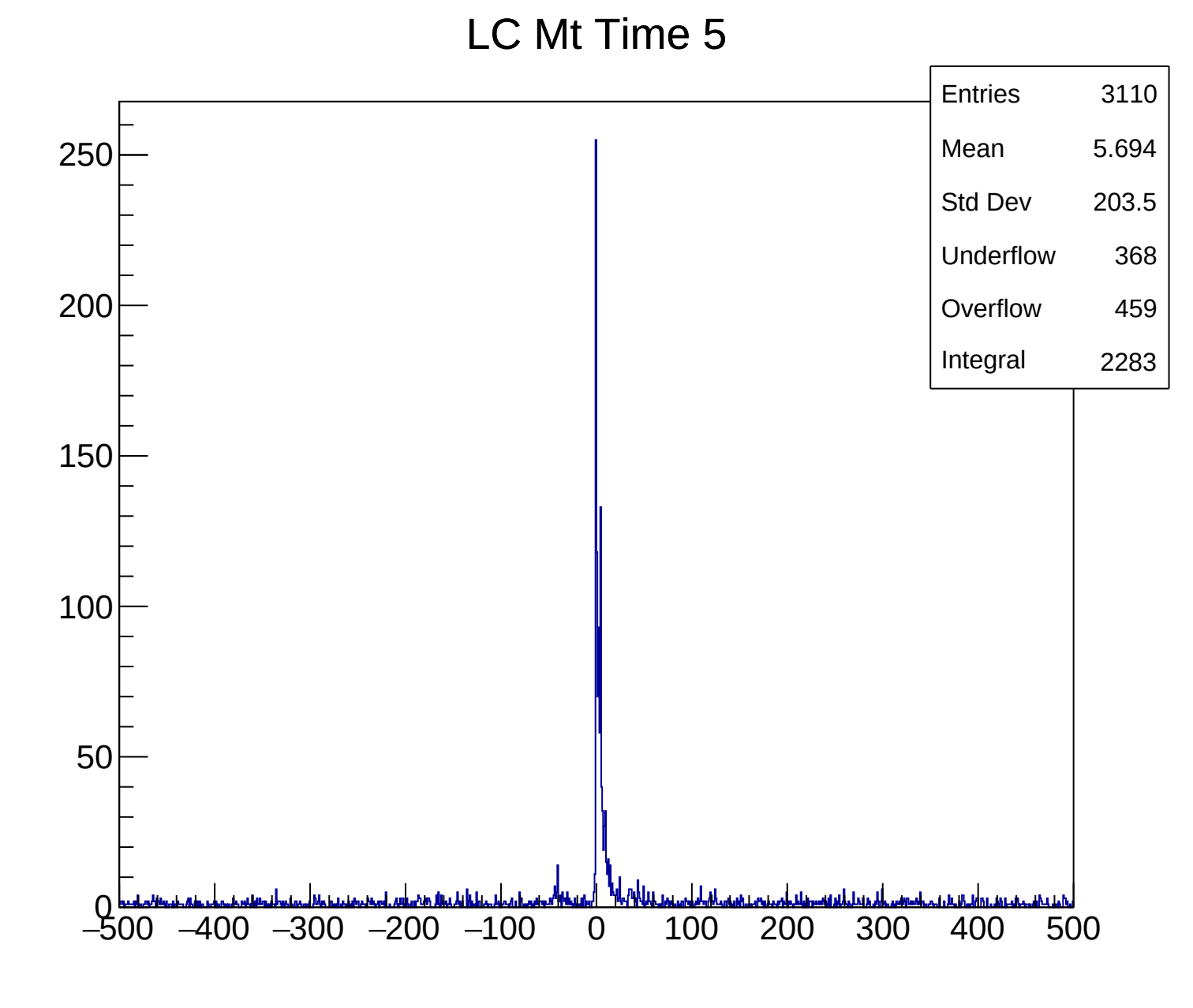
LC Mt Time 5
Entries 3110
Mean 5.694
Std Dev 203.5
Underflow 368
Overflow 459
Integral 2283
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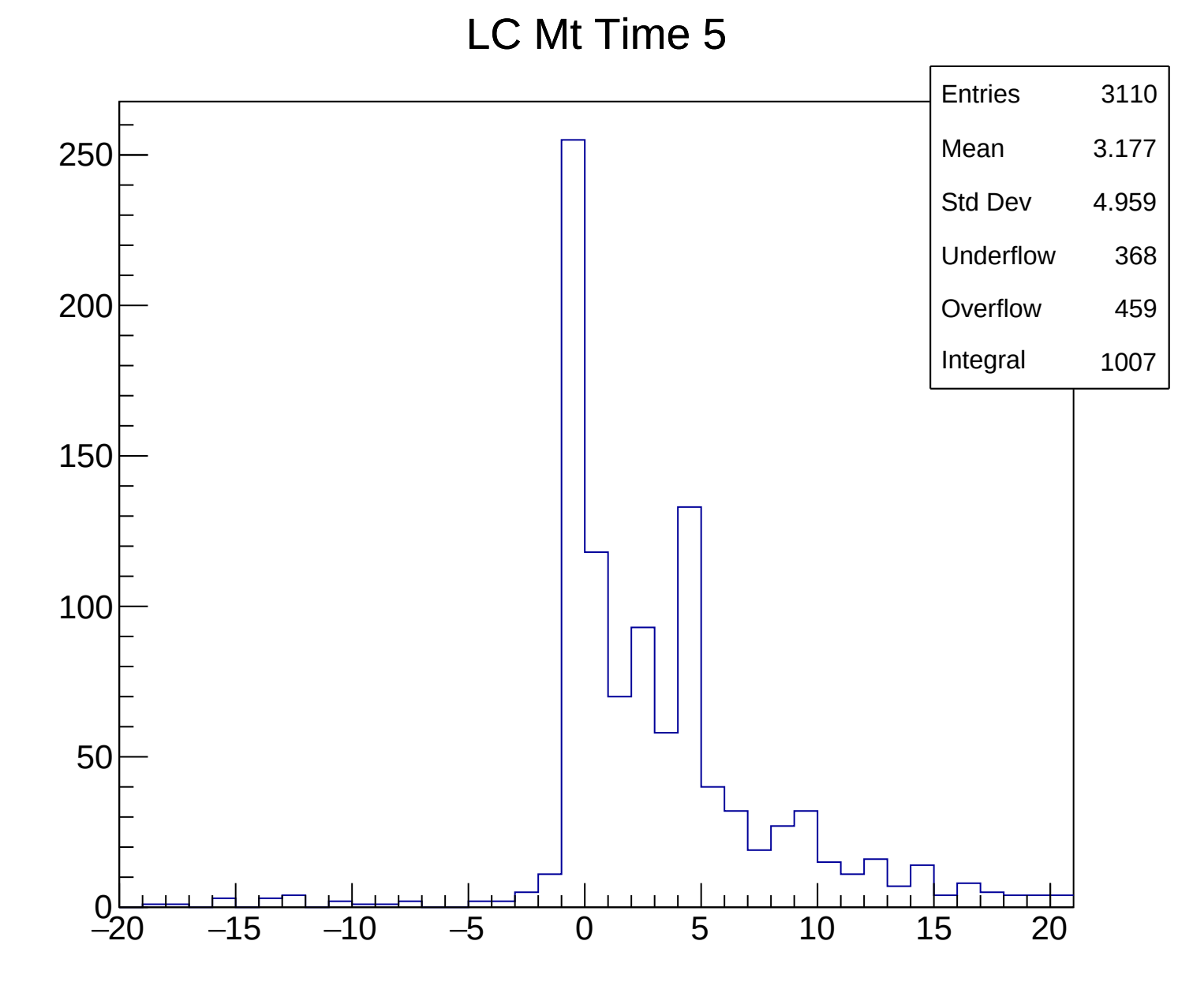
LC Mt Time 5
Entries 3110
Mean 3.177
Std Dev 4.959
Underflow 368
Overflow 459
Integral 1007
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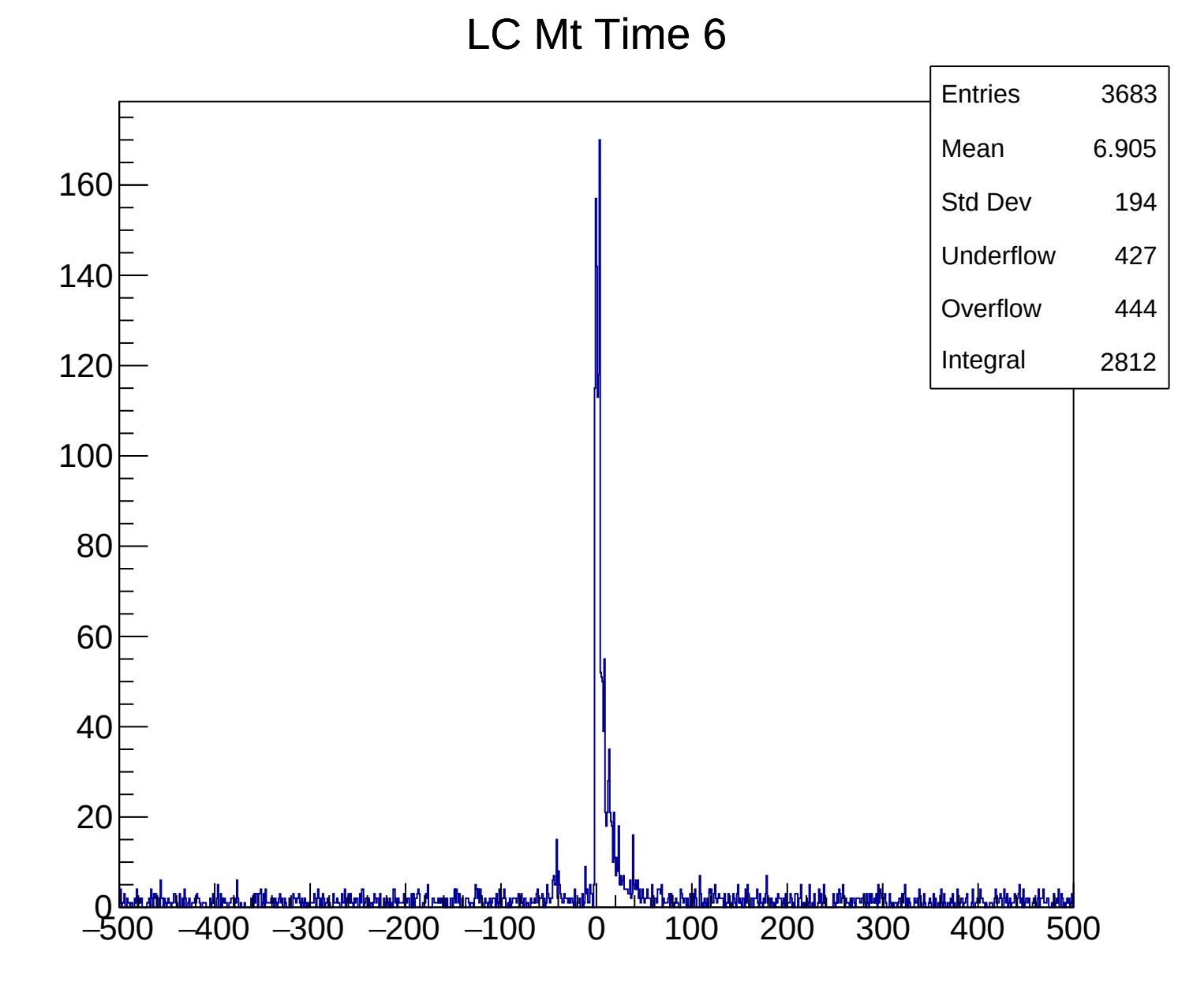
LC Mt Time 6
Entries 3683
Mean 6.905
Std Dev 194
Underflow 427
Overflow 444
Integral 2812
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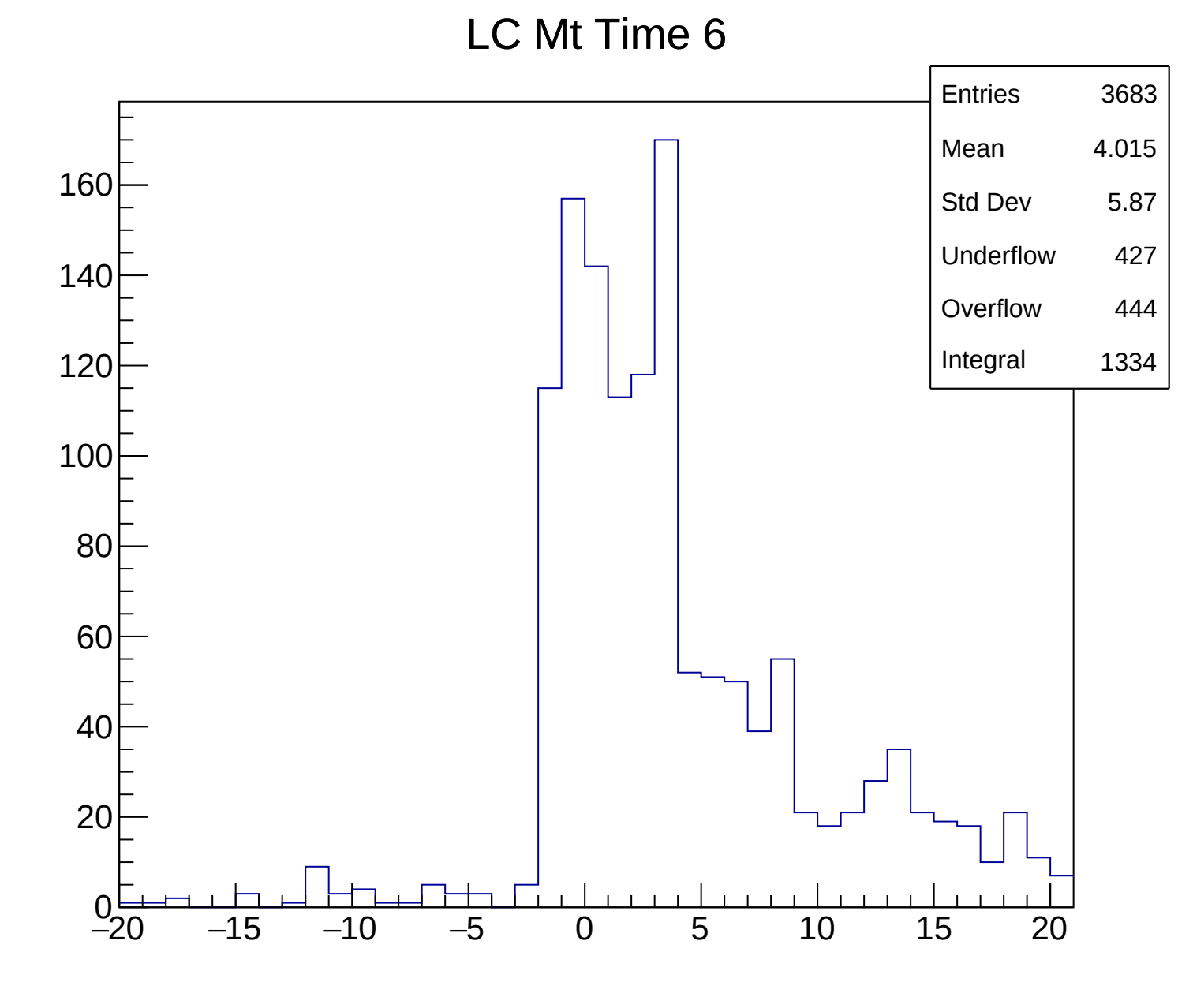
LC Mt Time 6
Entries 3683
Mean 4.015
Std Dev 5.87
Underflow 427
Overflow 444
Integral 1334
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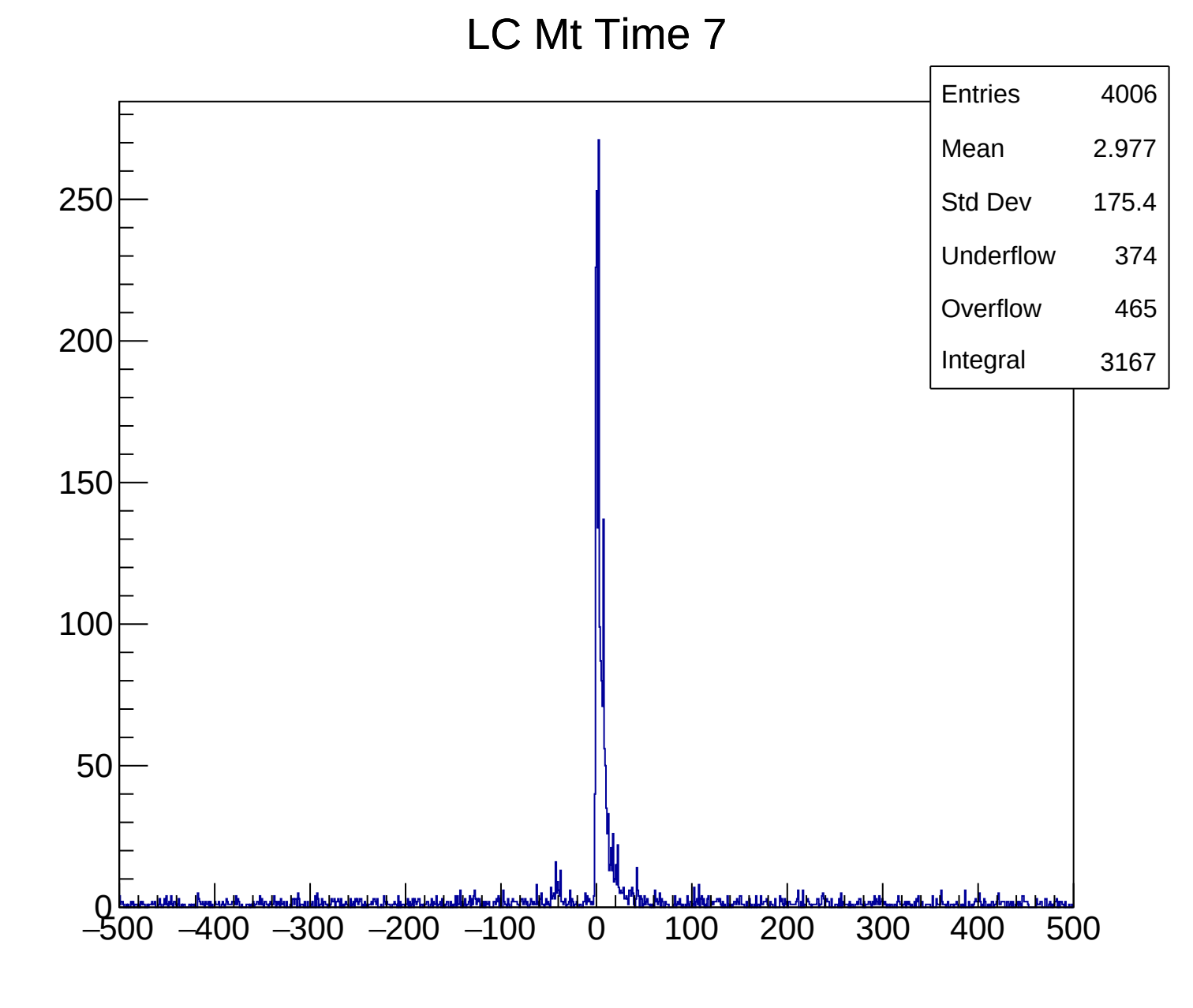
LC Mt Time 7
Entries 4006
Mean 2.977
Std Dev 175.4
Underflow 374
Overflow 465
Integral 3167
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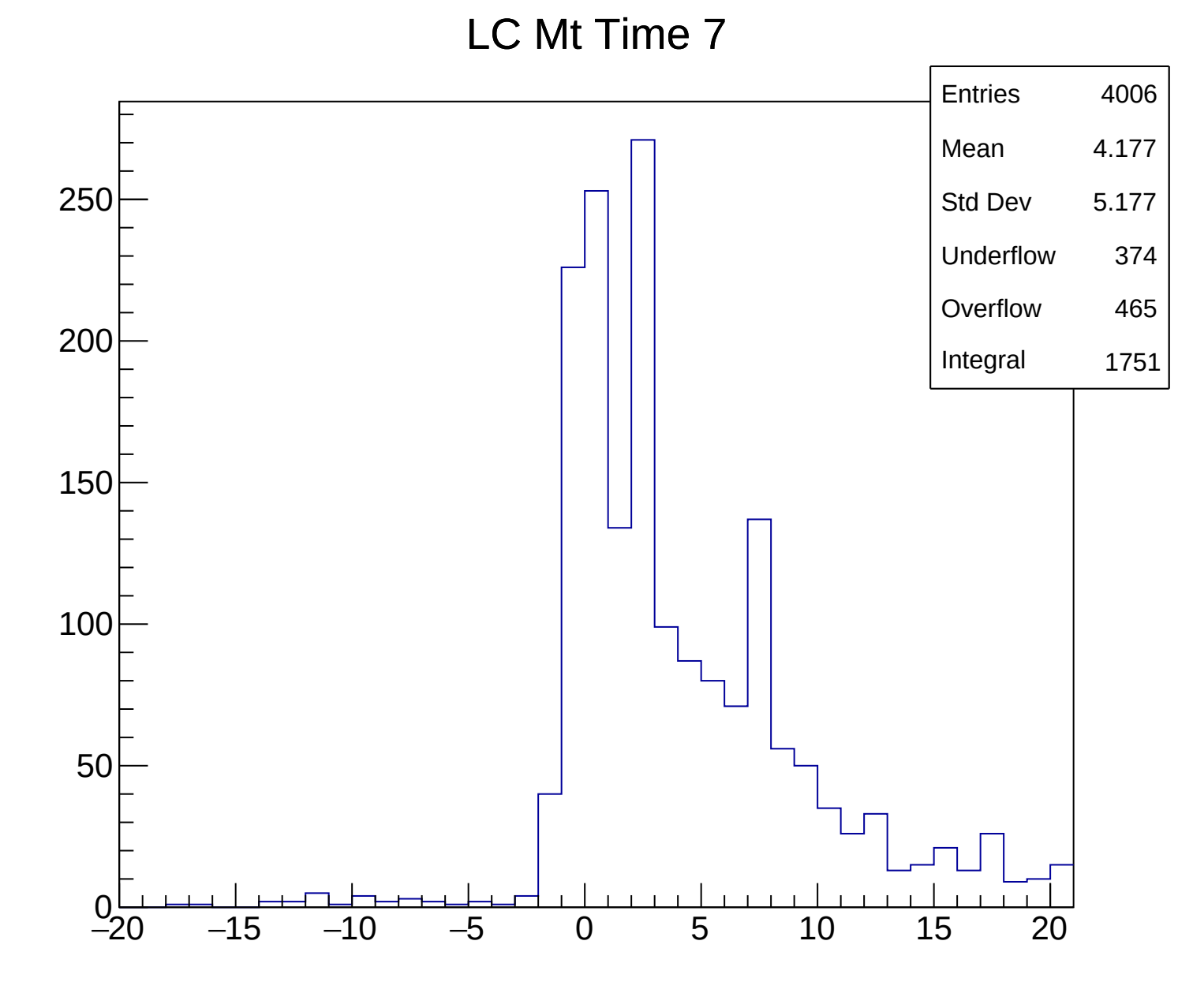
LC Mt Time 7
Entries 4006
Mean 4.177
Std Dev 5.177
Underflow 374
Overflow 465
Integral 1751
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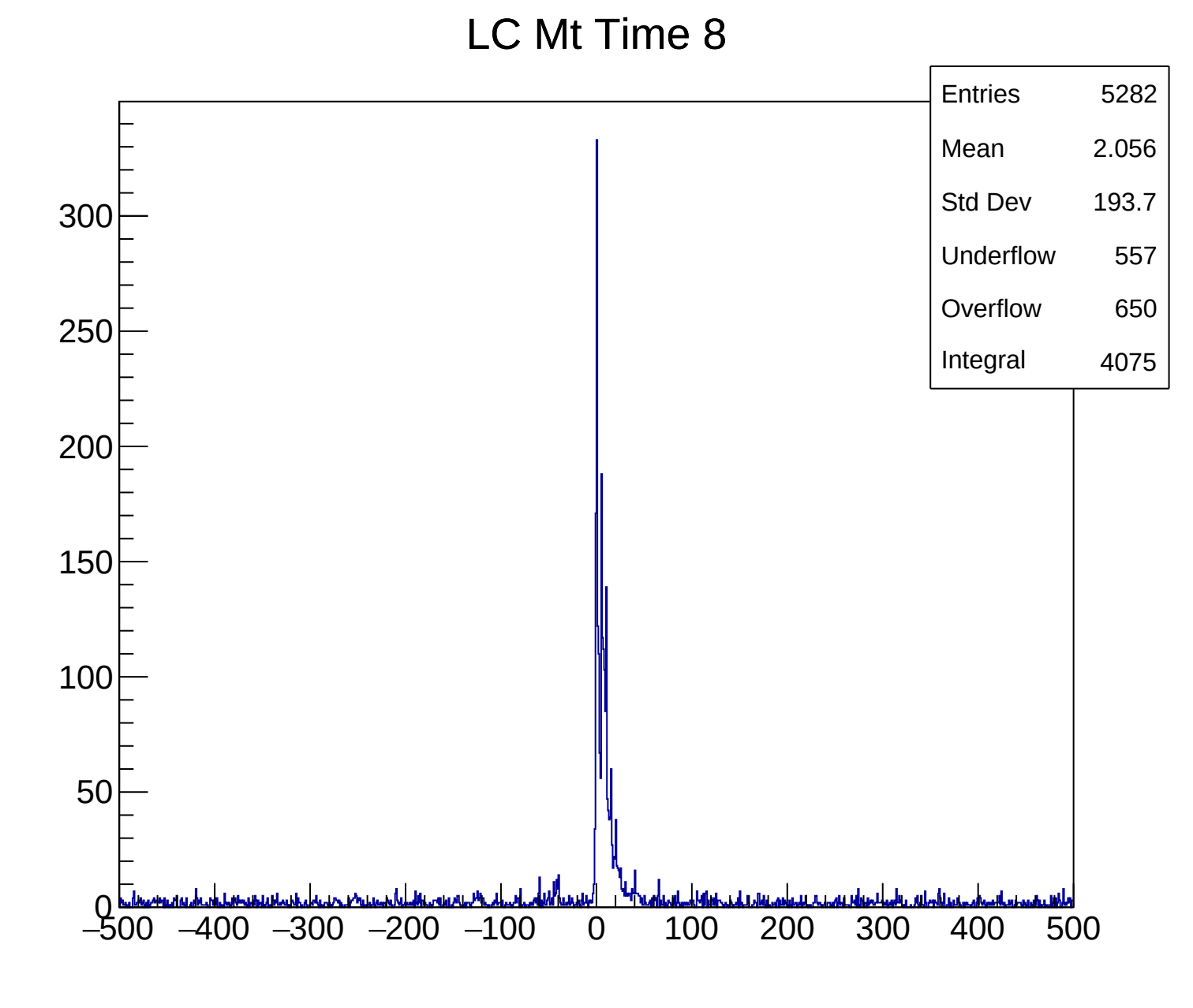
LC Mt Time 8
Entries 5282
Mean 2.056
Std Dev 193.7
Underflow 557
Overflow 650
Integral 4075
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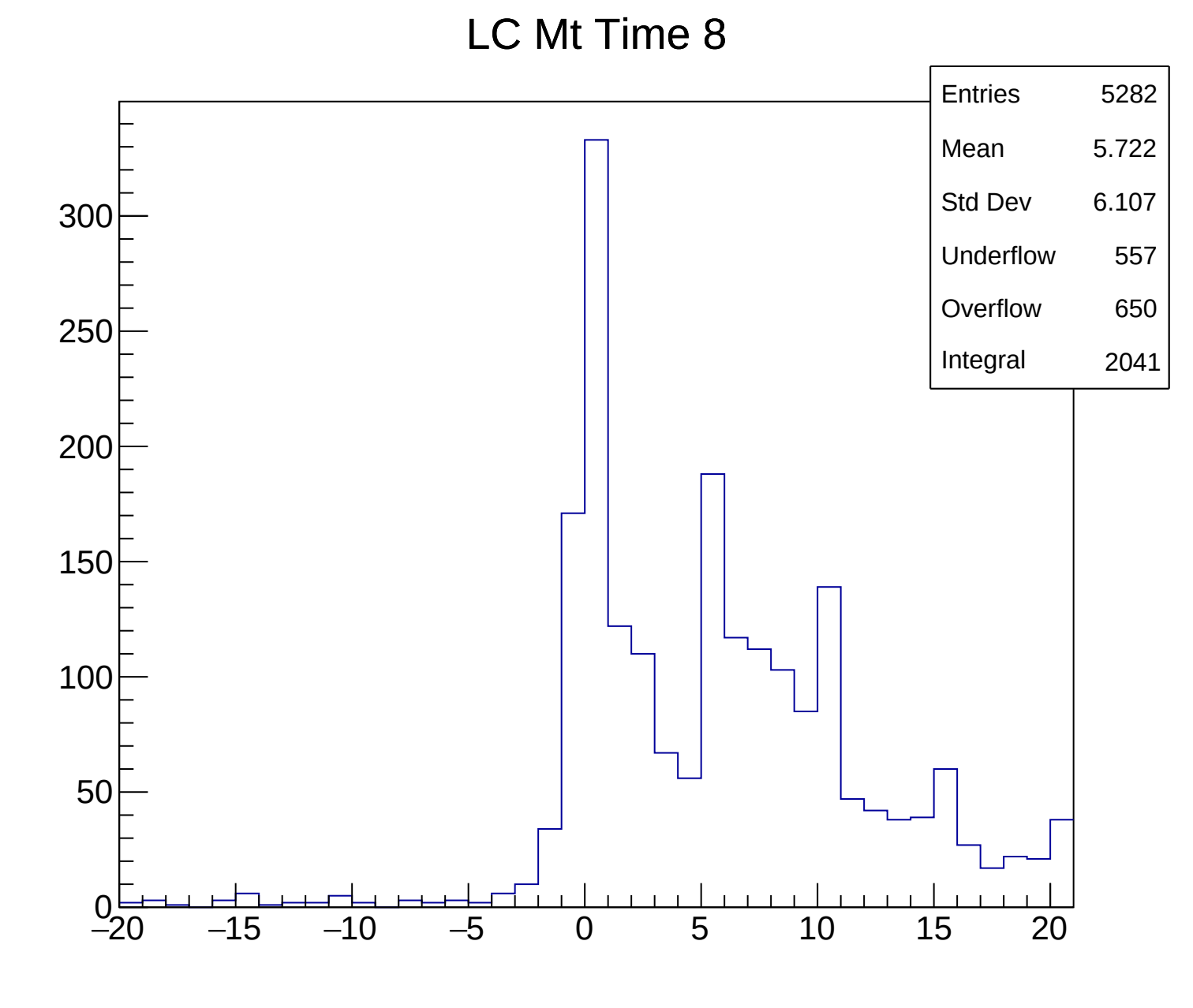
LC Mt Time 8
Entries 5282
Mean 5.722
Std Dev 6.107
Underflow 557
Overflow 650
Integral 2041
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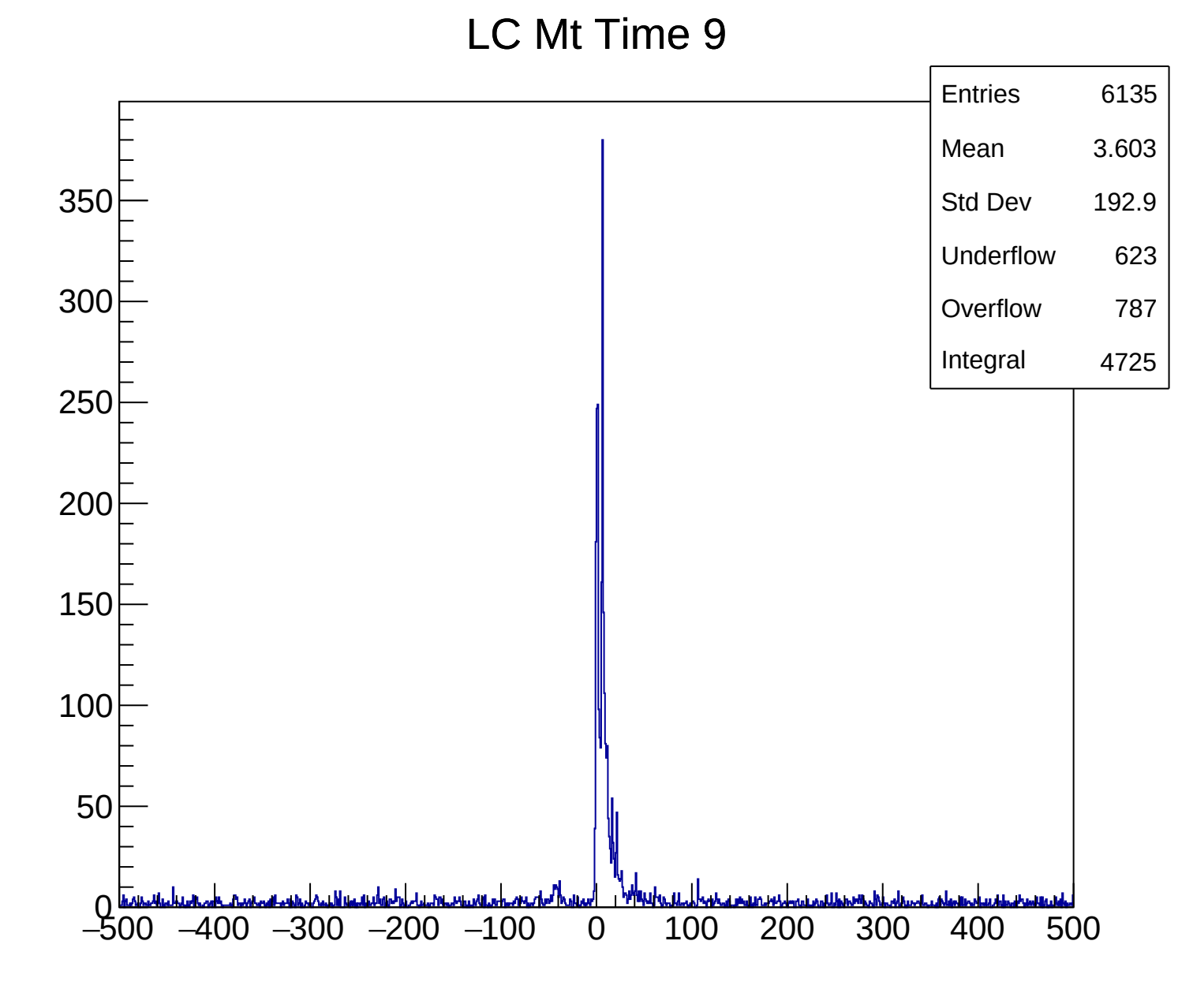
LC Mt Time 9
Entries 6135
Mean 3.603
Std Dev 192.9
Underflow 623
Overflow 787
Integral 4725
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150
100
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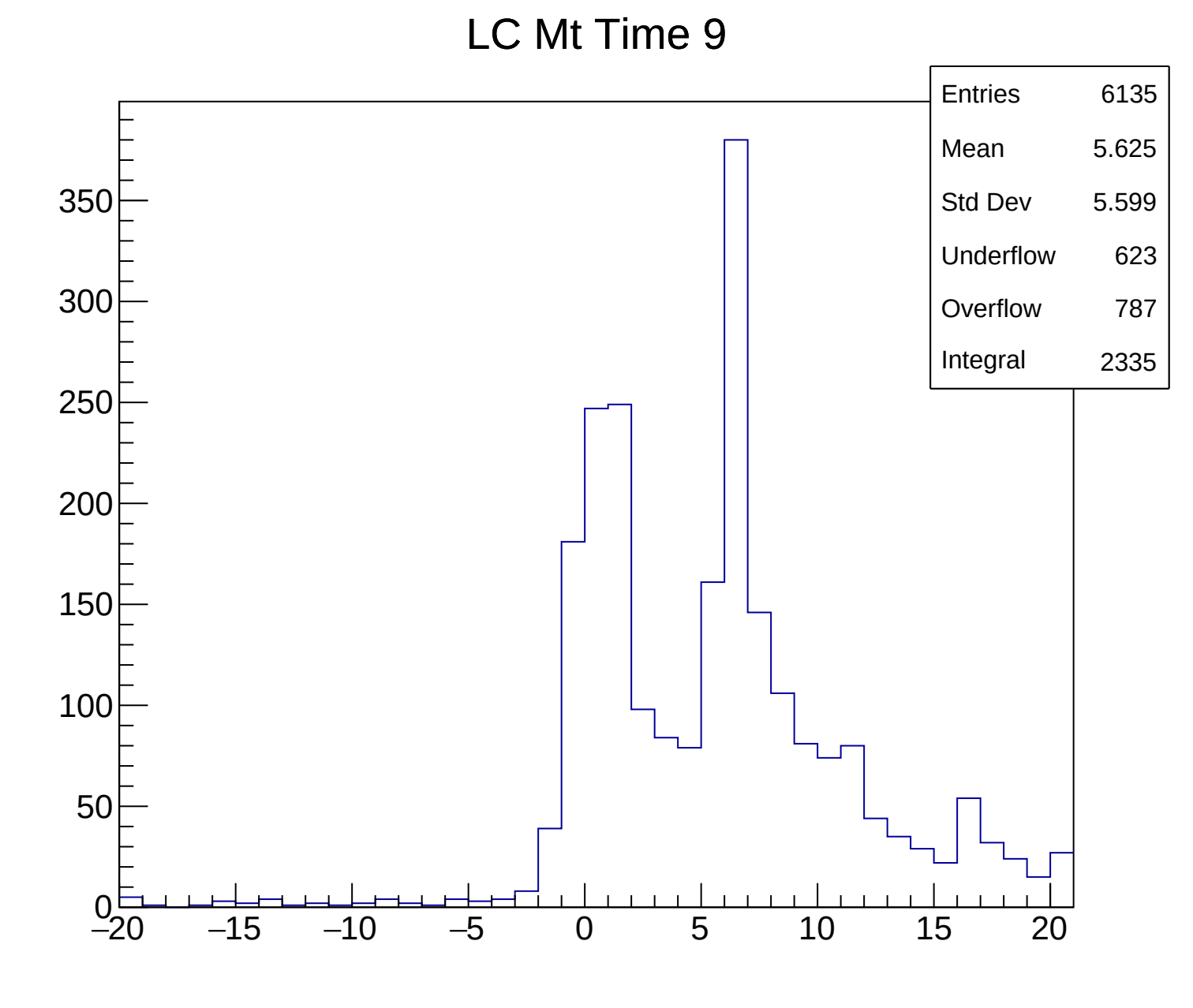
LC Mt Time 9
Entries 6135
Mean 5.625
Std Dev 5.599
Underflow 623
Overflow 787
Integral 2335
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250
200
150
100
50
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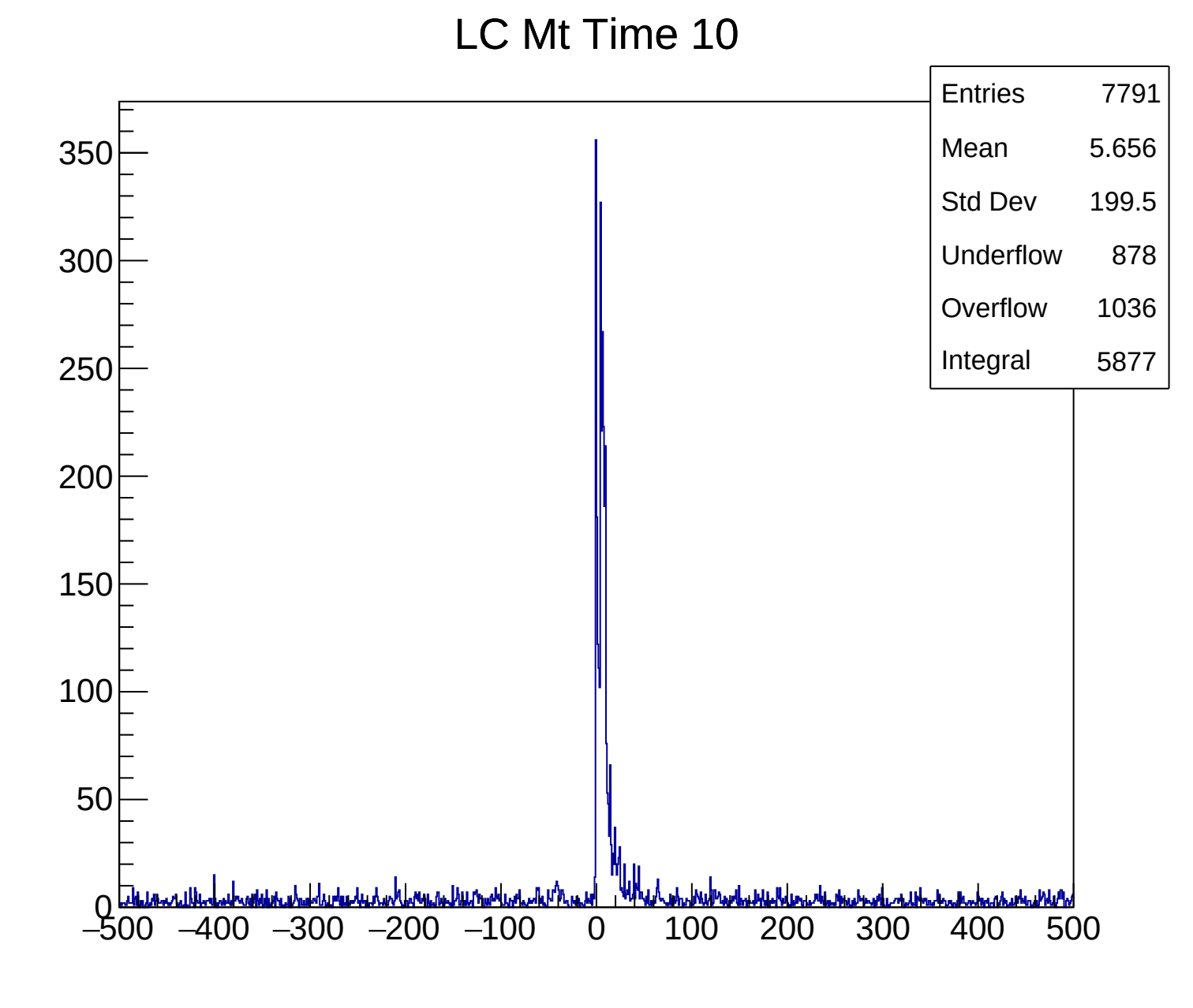
LC Mt Time 10
Entries 7791
Mean 5.656
Std Dev 199.5
Underflow 878
Overflow 1036
Integral 5877
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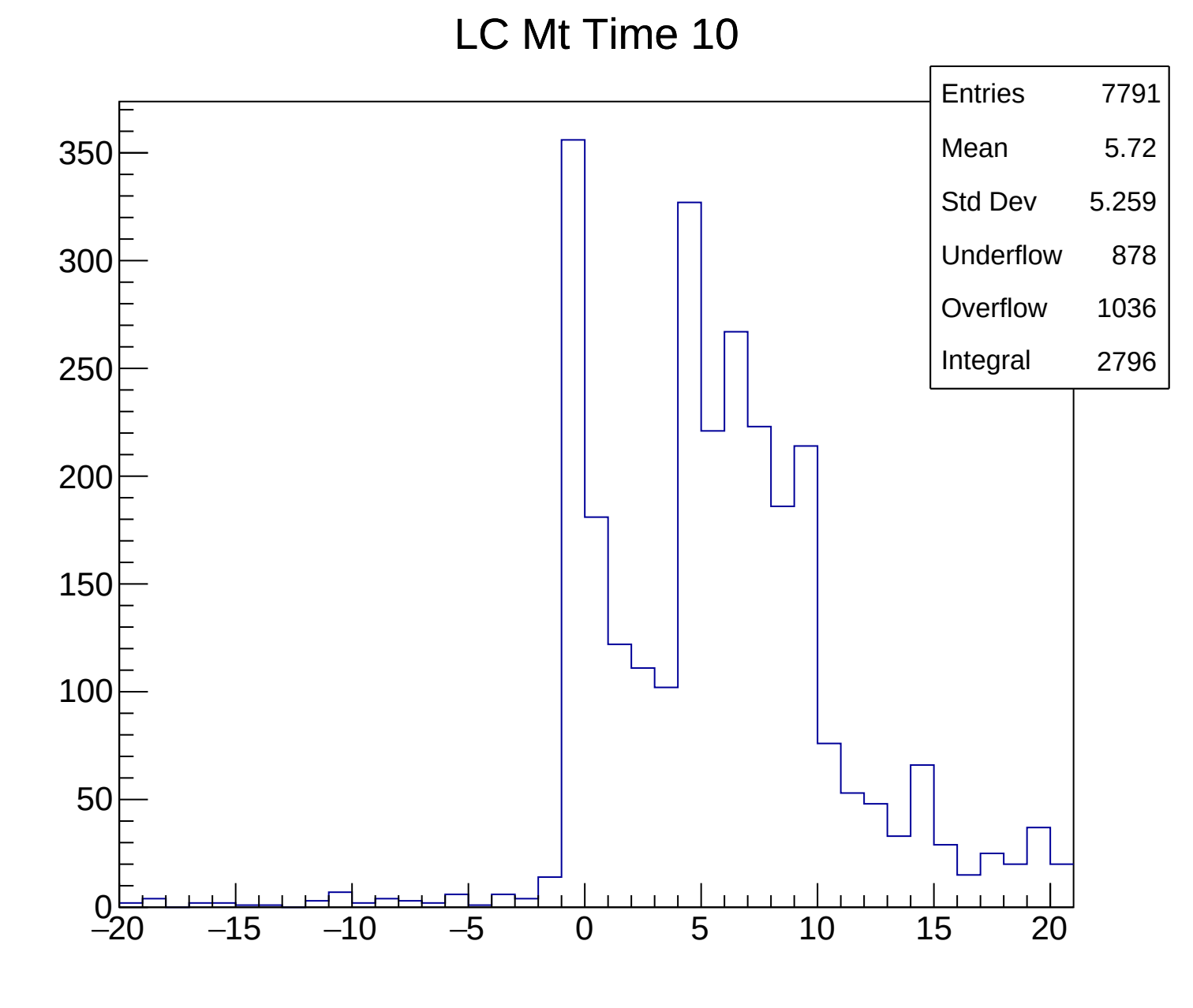
LC Mt Time 10
Entries 7791
Mean 5.72
Std Dev 5.259
Underflow 878
Overflow 1036
Integral 2796
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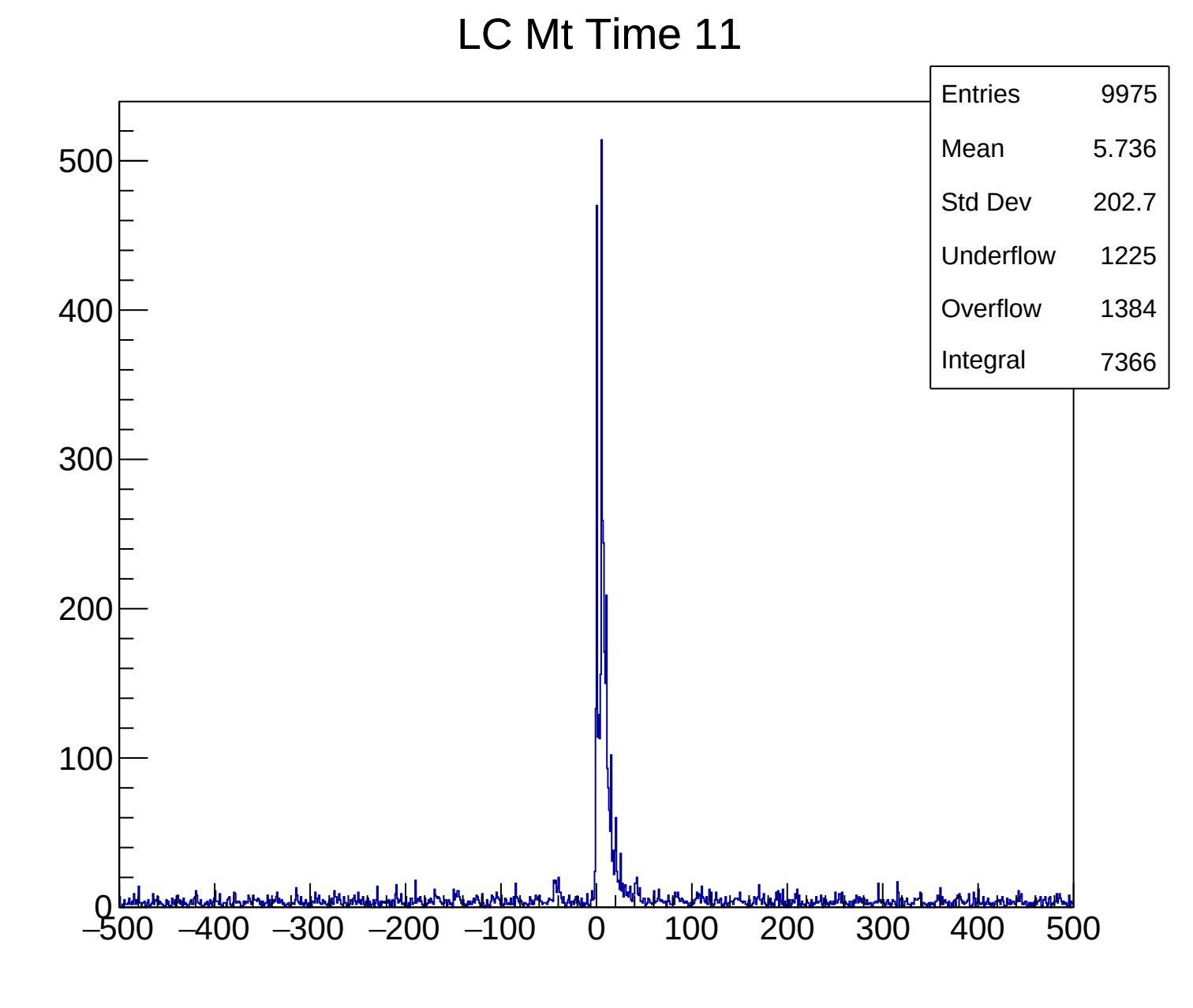
LC Mt Time 11
Entries 9975
Mean 5.736
Std Dev 202.7
Underflow 1225
Overflow 1384
Integral 7366
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200
100
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–500
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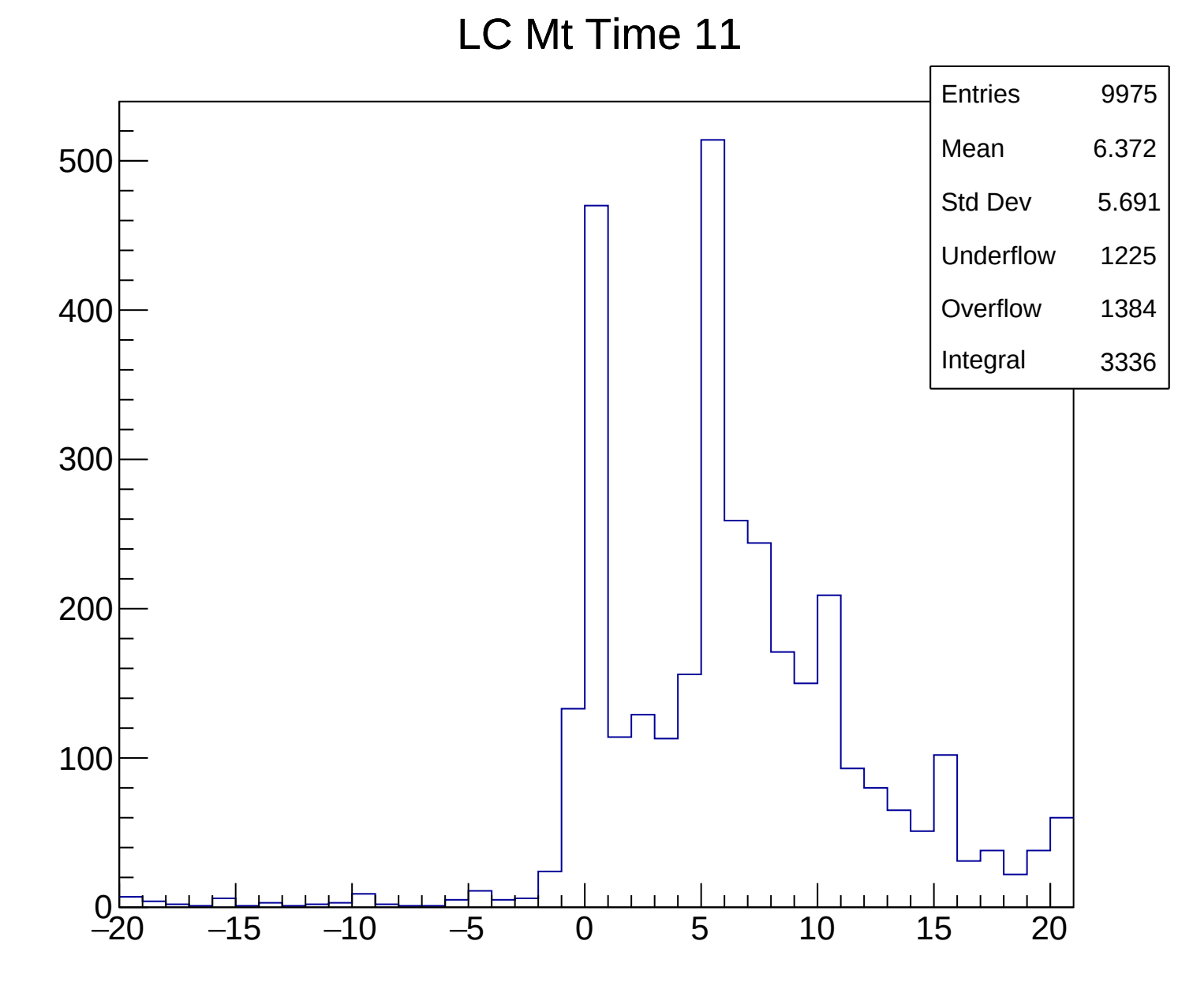
LC Mt Time 11
Entries 9975
Mean 6.372
Std Dev 5.691
Underflow 1225
Overflow 1384
Integral 3336
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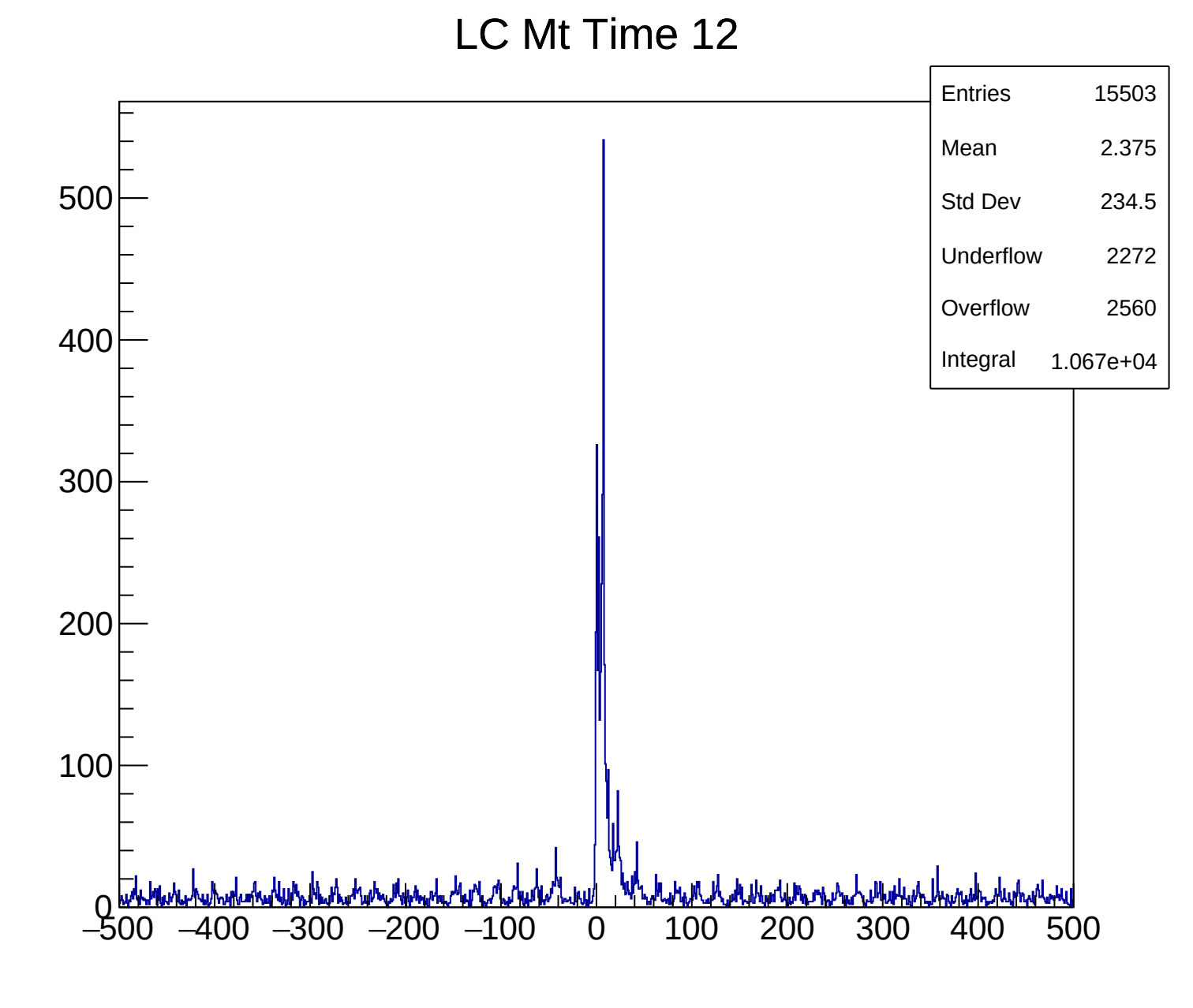
LC Mt Time 12
Entries 15503
Mean 2.375
Std Dev 234.5
Underflow 2272
Overflow 2560
Integral 1.067e+04
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300
200
100
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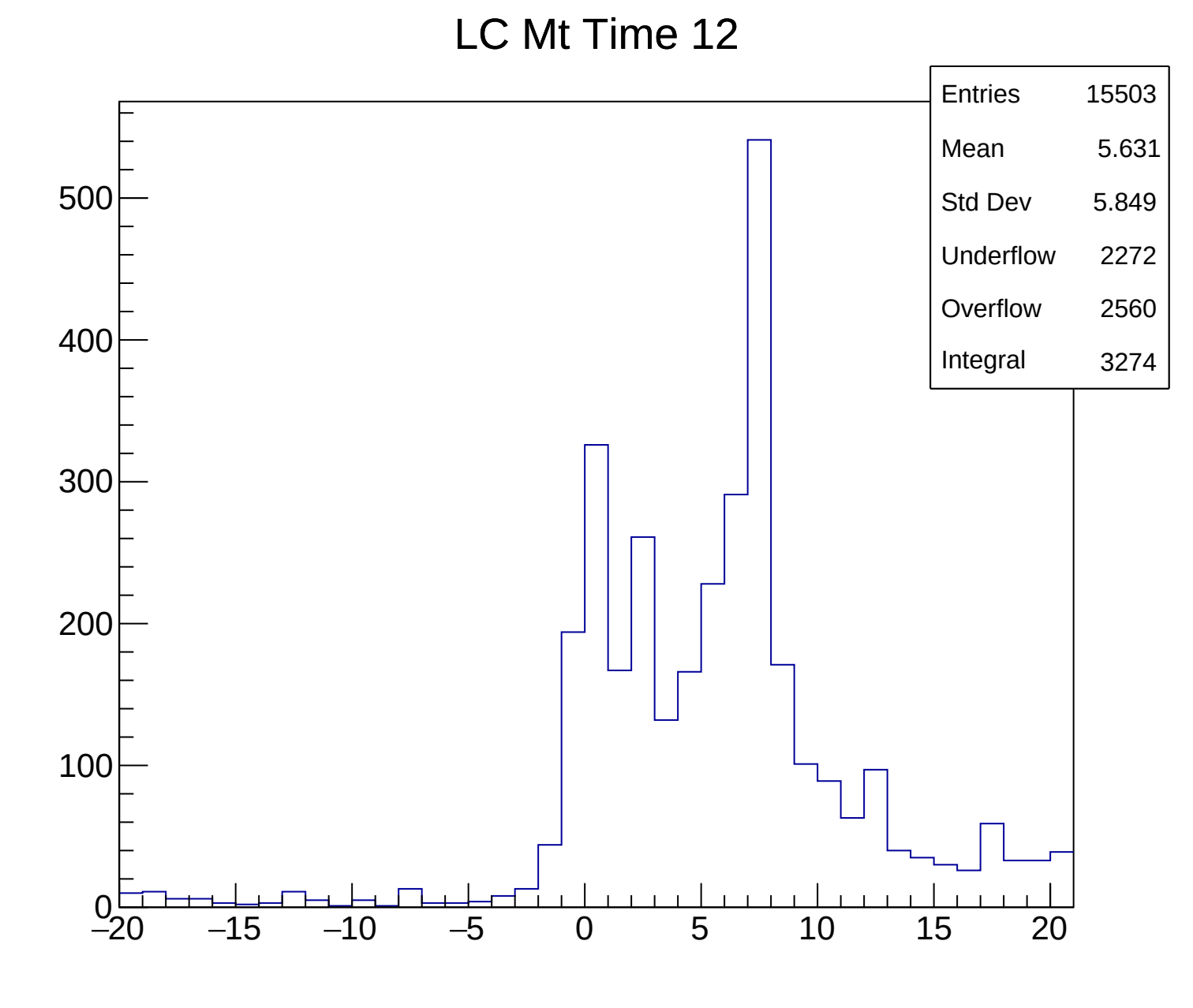
LC Mt Time 12
Entries 15503
Mean 5.631
Std Dev 5.849
Underflow 2272
Overflow 2560
Integral 3274
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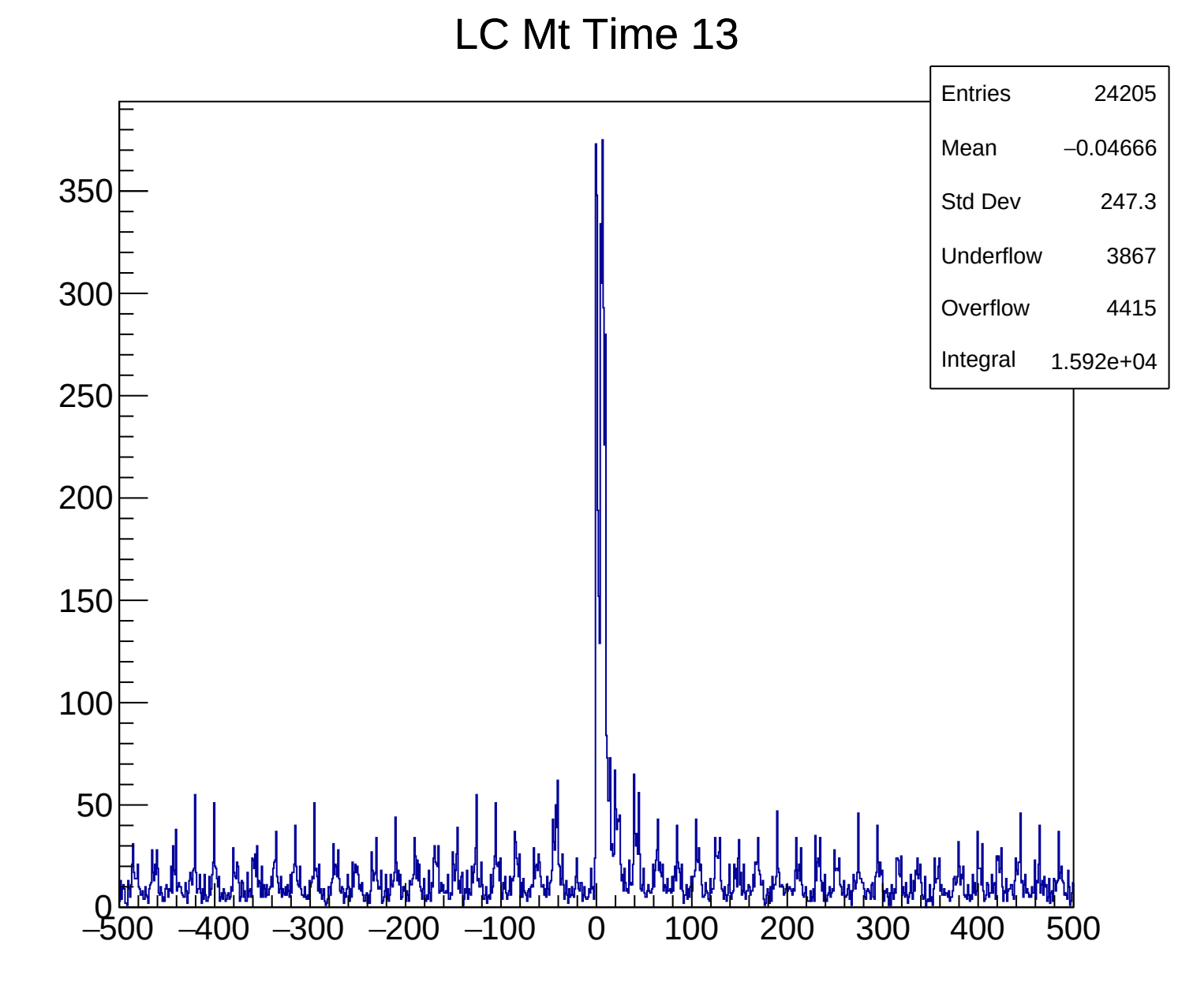
LC Mt Time 13
Entries 24205
Mean –0.04666
Std Dev 247.3
Underflow 3867
Overflow 4415
Integral 1.592e+04
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100
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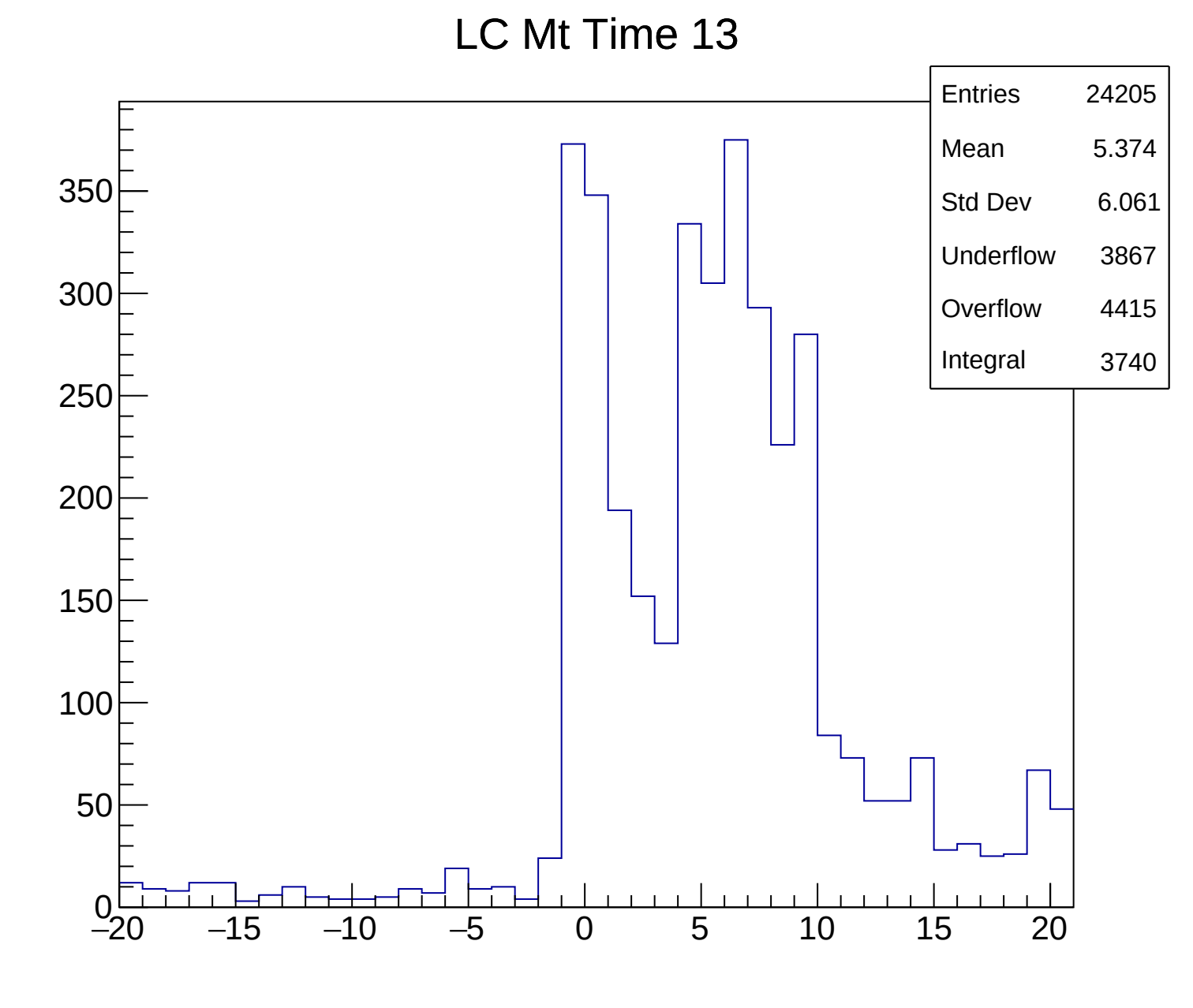
LC Mt Time 13
Entries 24205
Mean 5.374
Std Dev 6.061
Underflow 3867
Overflow 4415
Integral 3740
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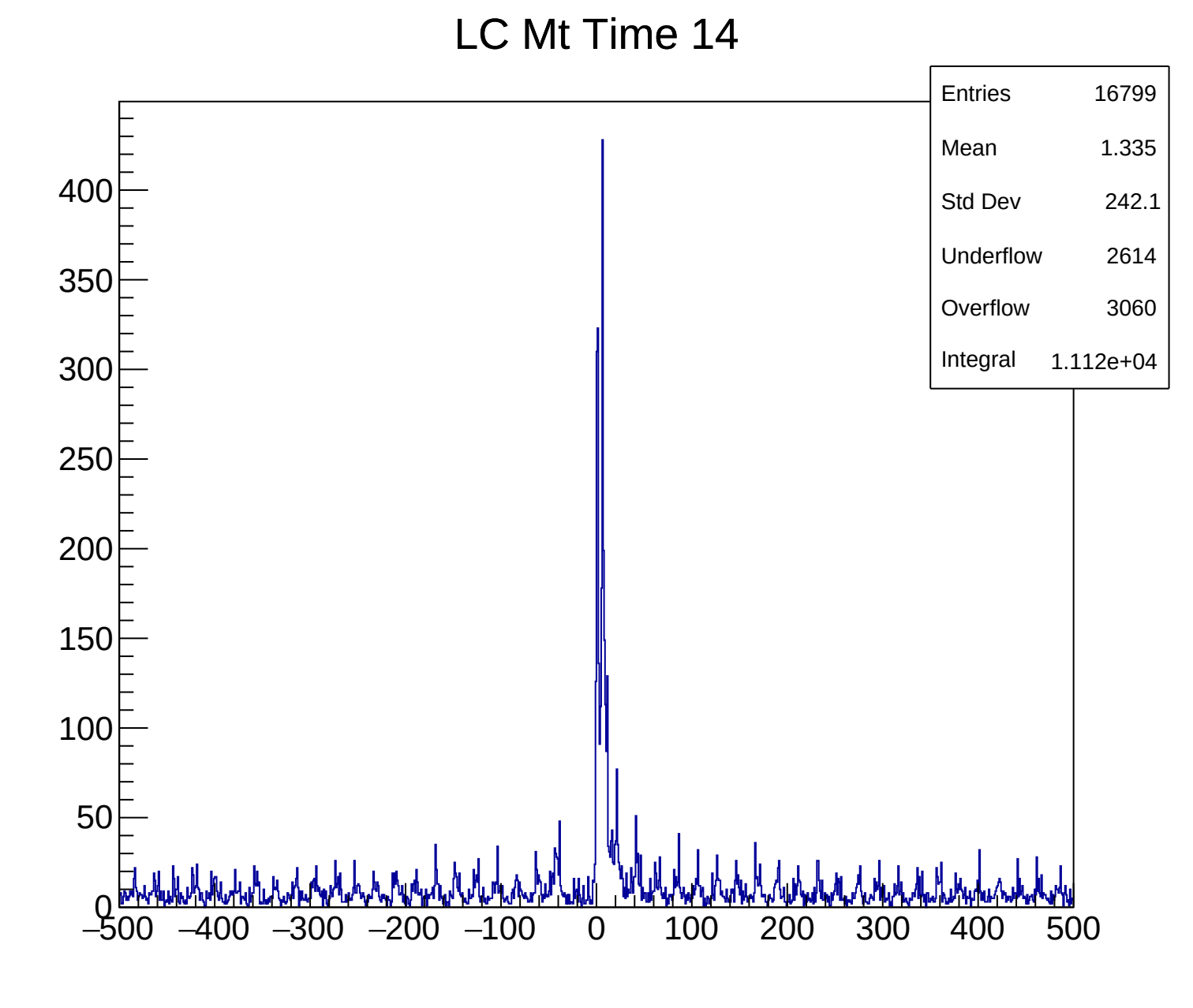
LC Mt Time 14
Entries 16799
Mean 1.335
Std Dev 242.1
Underflow 2614
Overflow 3060
Integral 1.112e+04
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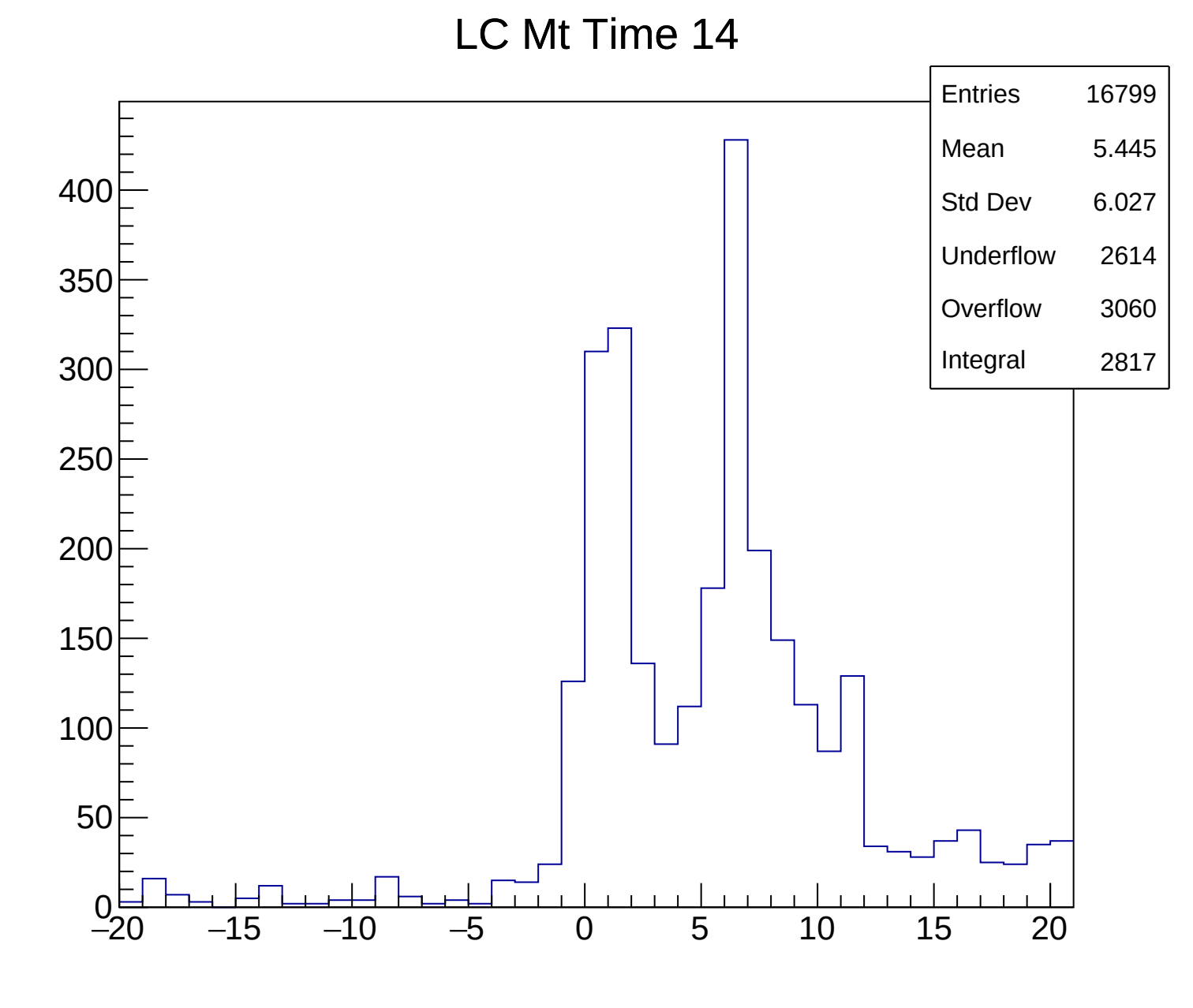
LC Mt Time 14
Entries 16799
Mean 5.445
Std Dev 6.027
Underflow 2614
Overflow 3060
Integral 2817
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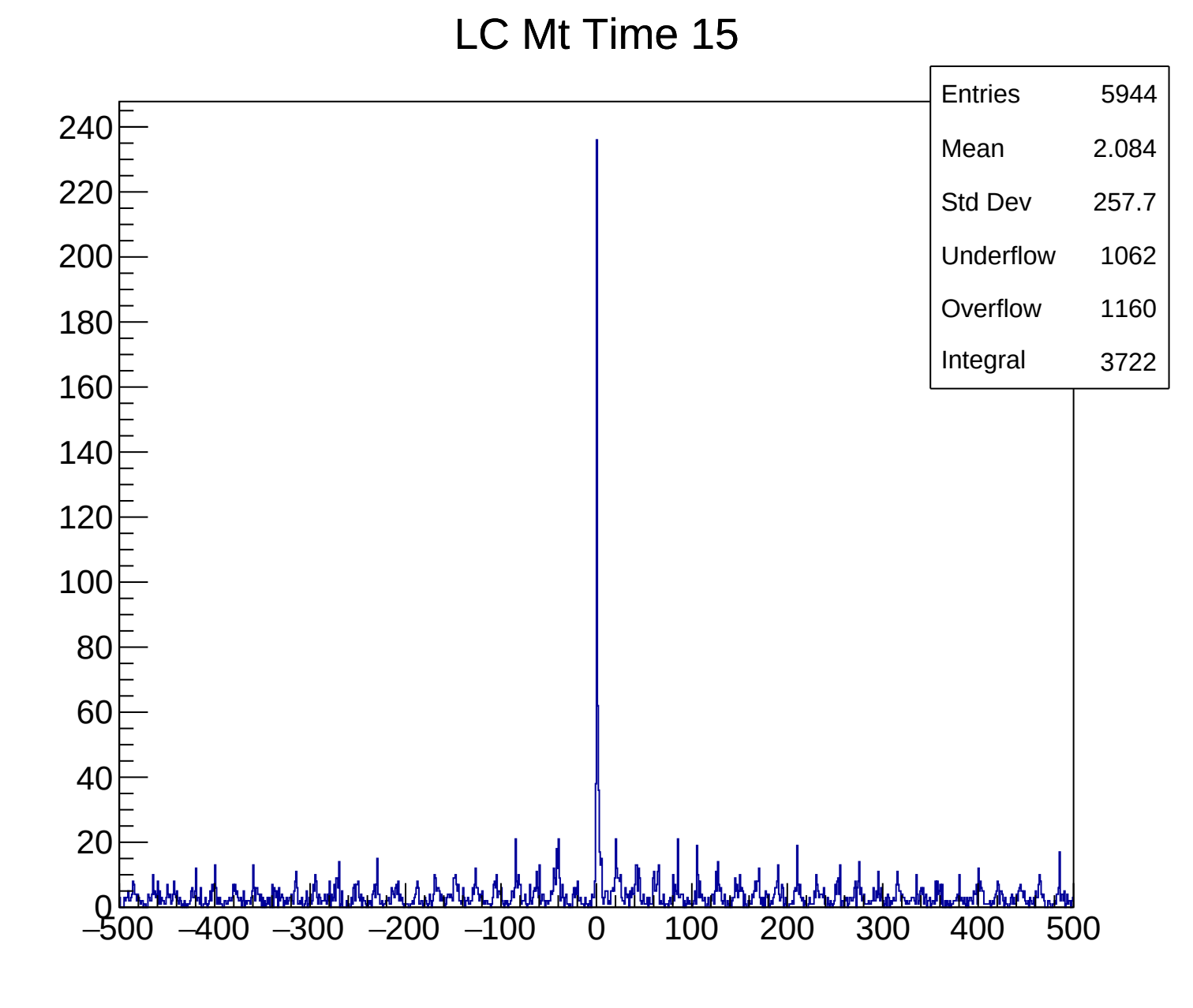
LC Mt Time 15
Entries 5944
Mean 2.084
Std Dev 257.7
Underflow 1062
Overflow 1160
Integral 3722
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220
200
180
160
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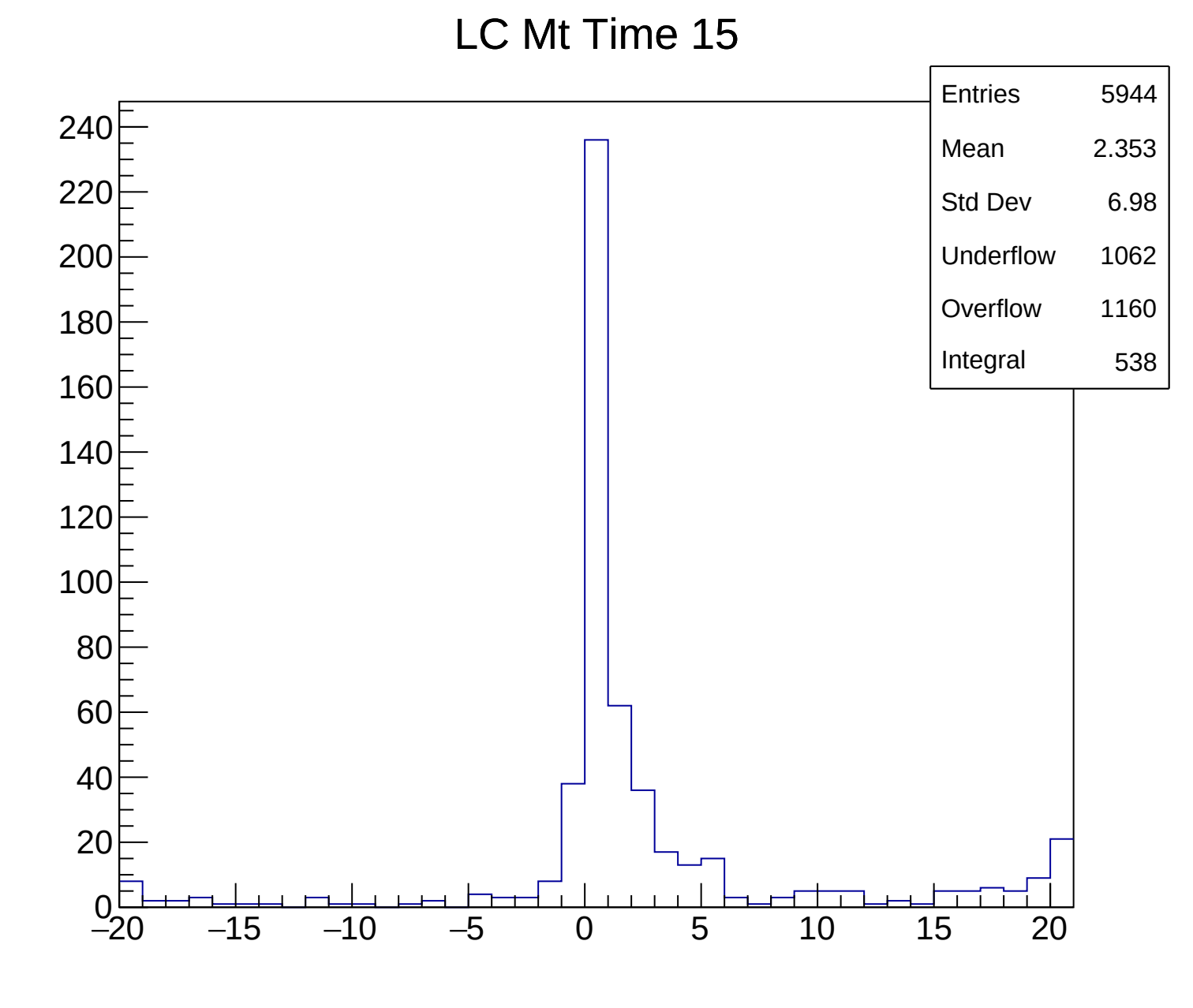
LC Mt Time 15
Entries 5944
Mean 2.353
Std Dev 6.98
Underflow 1062
Overflow 1160
Integral 538
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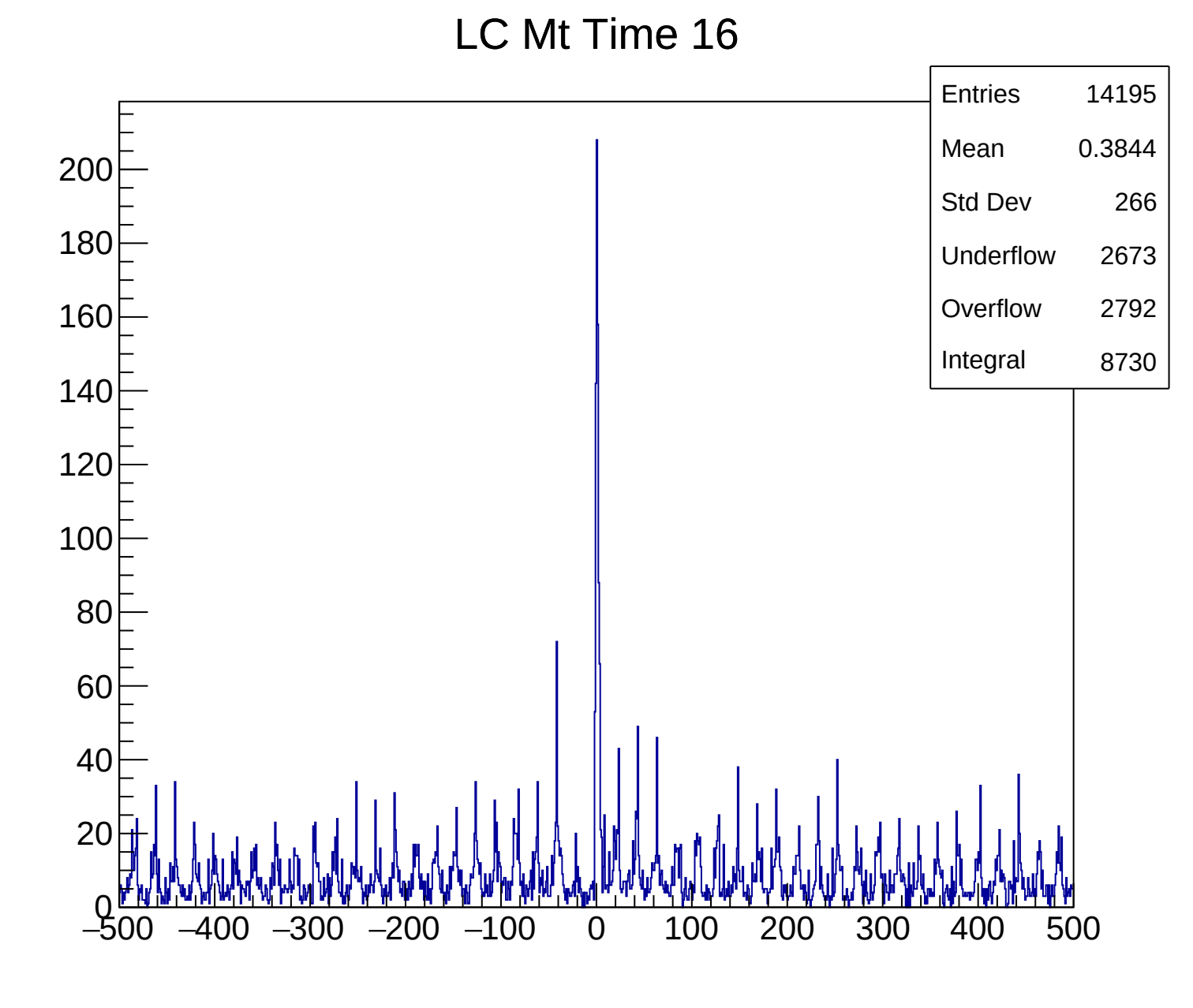
LC Mt Time 16
Entries 14195
Mean 0.3844
Std Dev 266
Underflow 2673
Overflow 2792
Integral 8730
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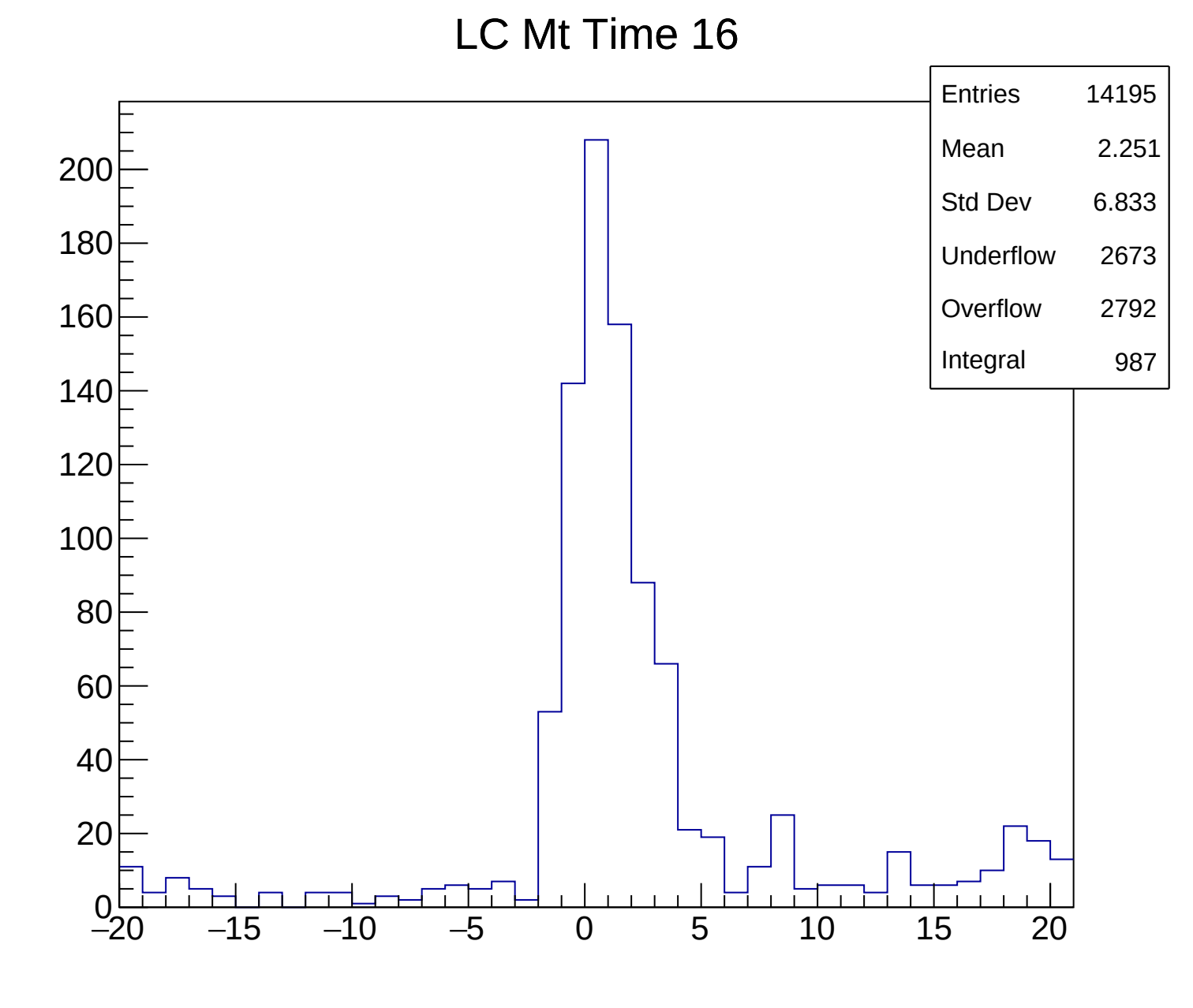
LC Mt Time 16
Entries 14195
Mean 2.251
Std Dev 6.833
Underflow 2673
Overflow 2792
Integral 987
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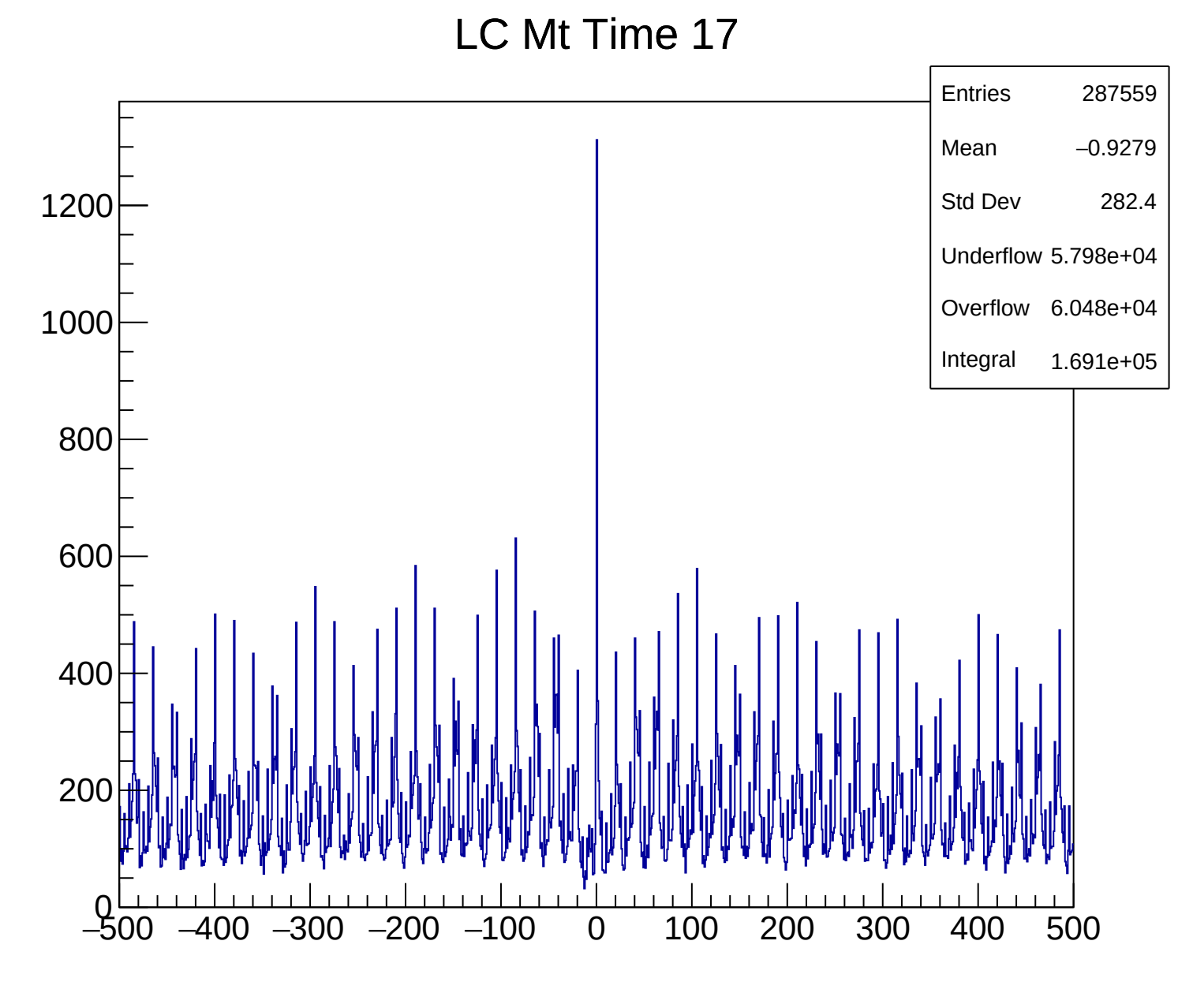
LC Mt Time 17
Entries 287559
Mean –0.9279
Std Dev 282.4
Underflow 5.798e+04
Overflow 6.048e+04
Integral 1.691e+05
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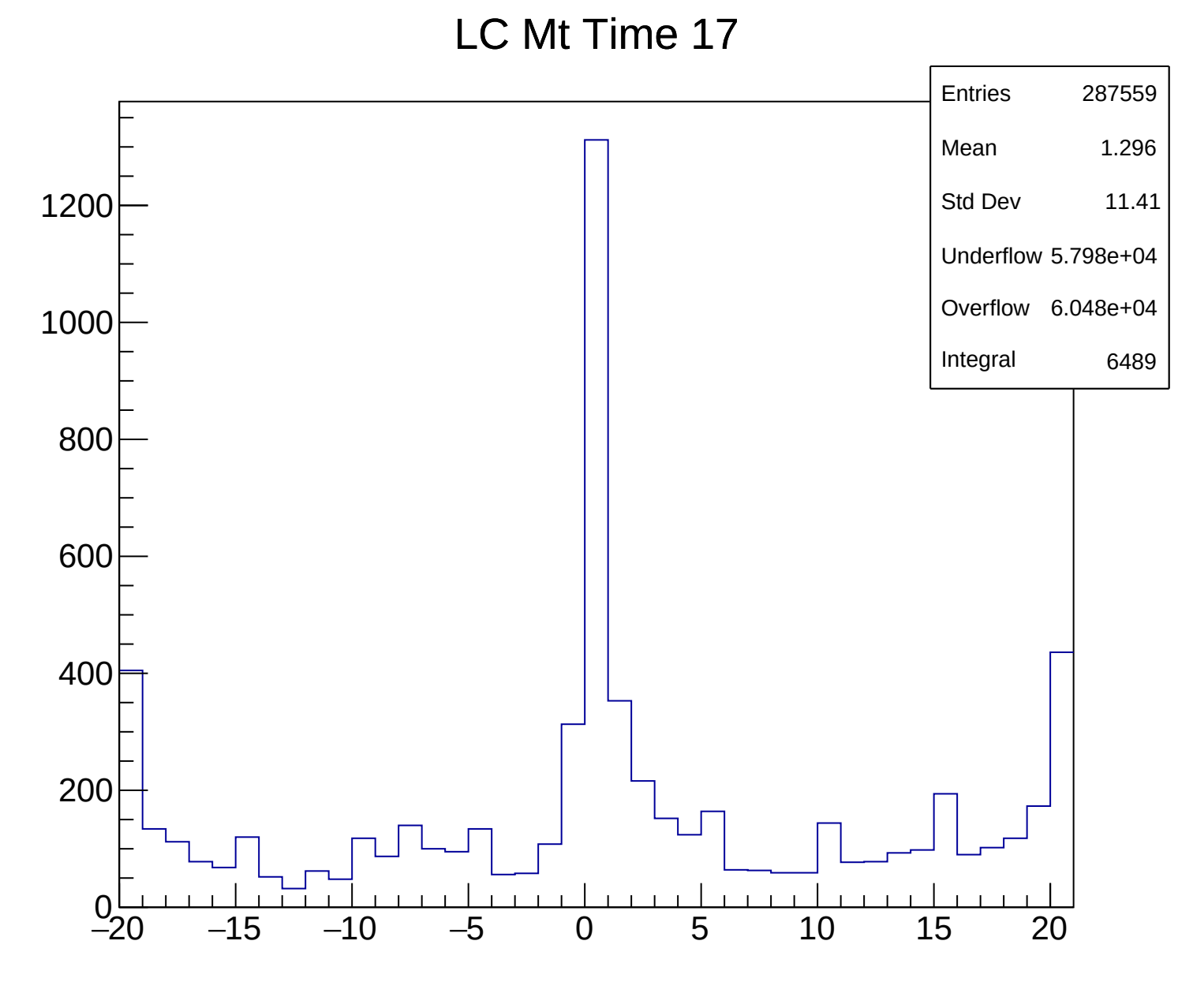
LC Mt Time 17
Entries 287559
Mean 1.296
Std Dev 11.41
Underflow 5.798e+04
Overflow 6.048e+04
Integral 6489
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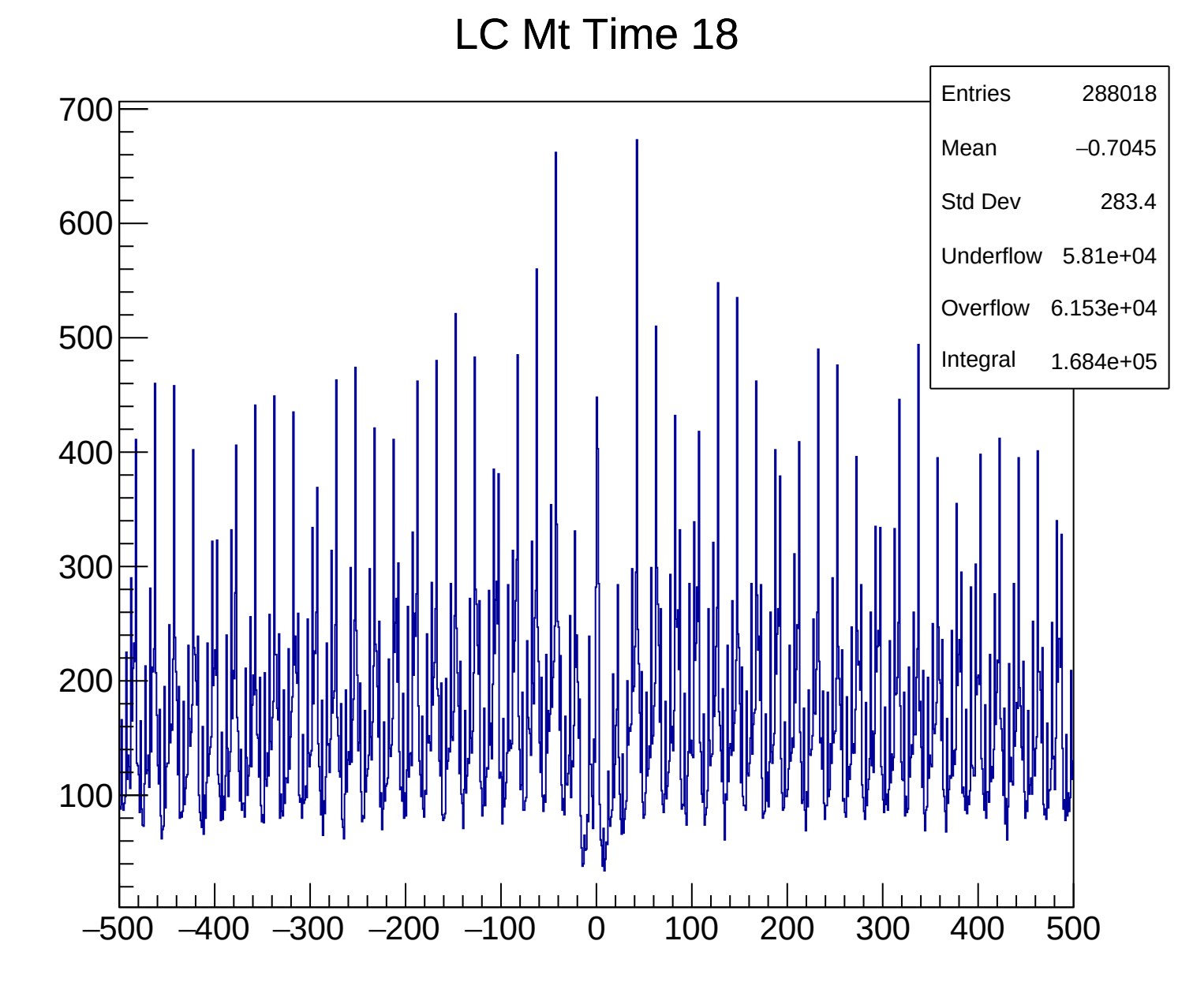
LC Mt Time 18
Entries 288018
Mean –0.7045
Std Dev 283.4
Underflow 5.81e+04
Overflow 6.153e+04
Integral 1.684e+05
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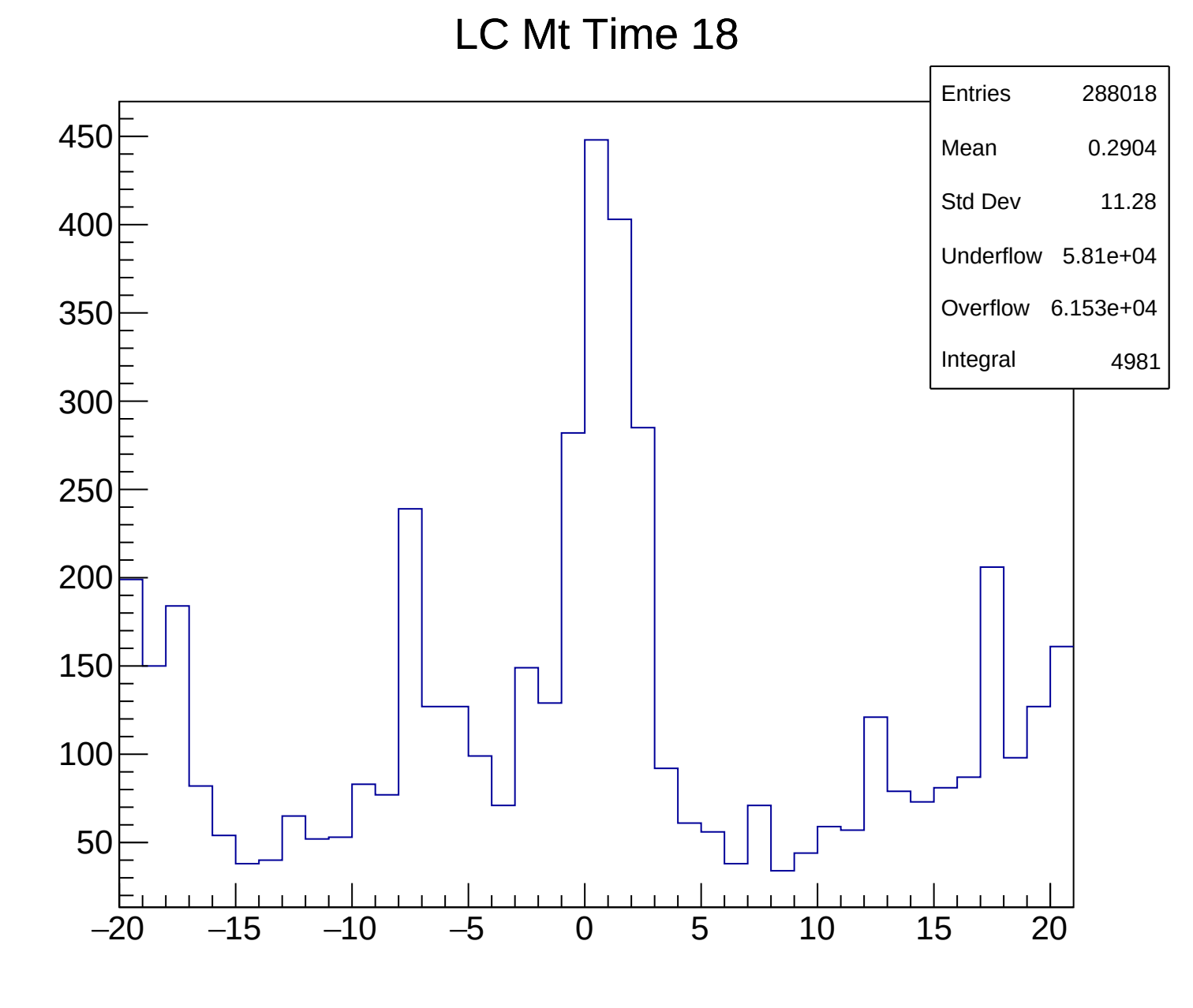
LC Mt Time 18
Entries 288018
Mean 0.2904
Std Dev 11.28
Underflow 5.81e+04
Overflow 6.153e+04
Integral 4981
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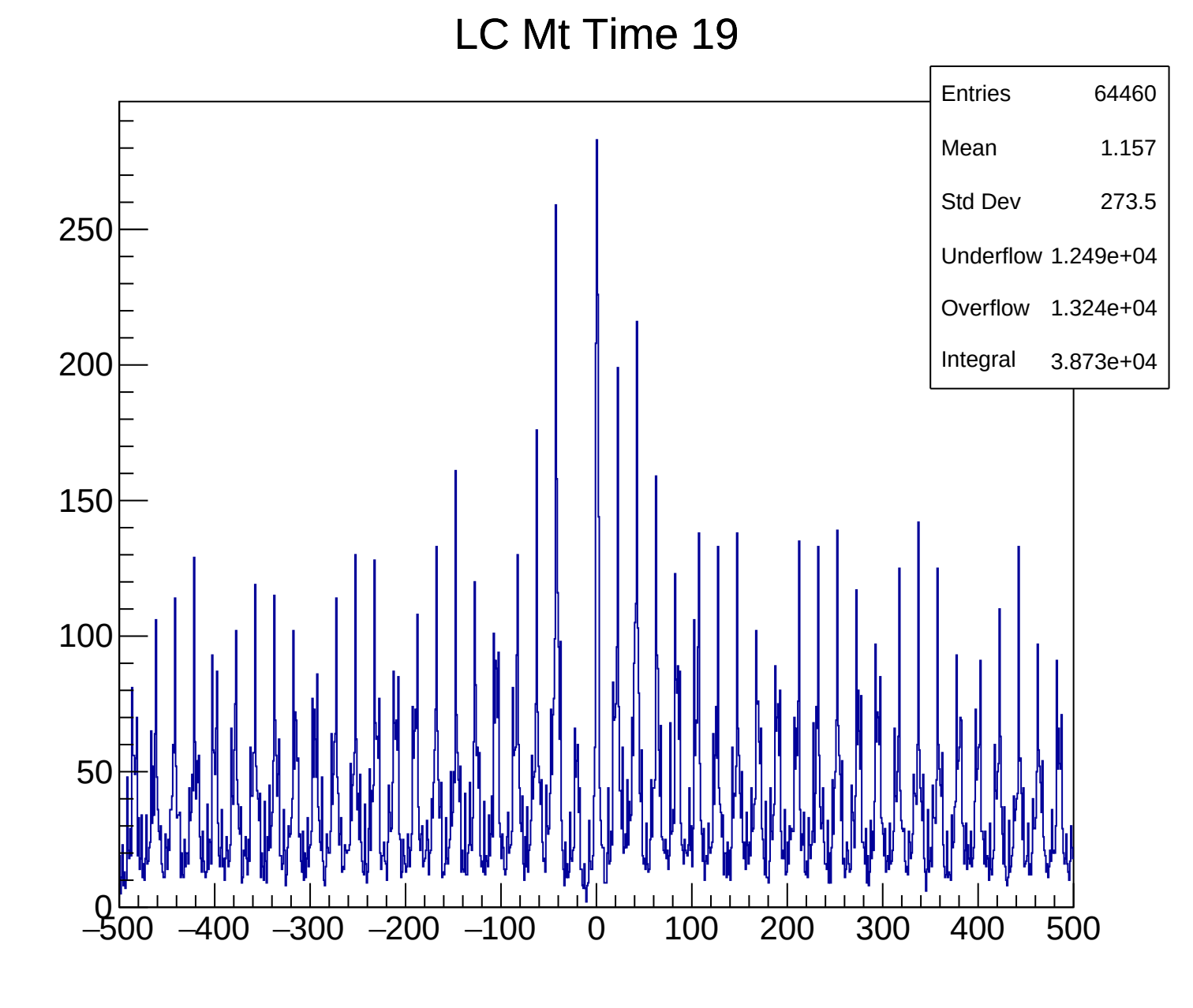
LC Mt Time 19
Entries 64460
Mean 1.157
Std Dev 273.5
Underflow 1.249e+04
Overflow 1.324e+04
Integral 3.873e+04
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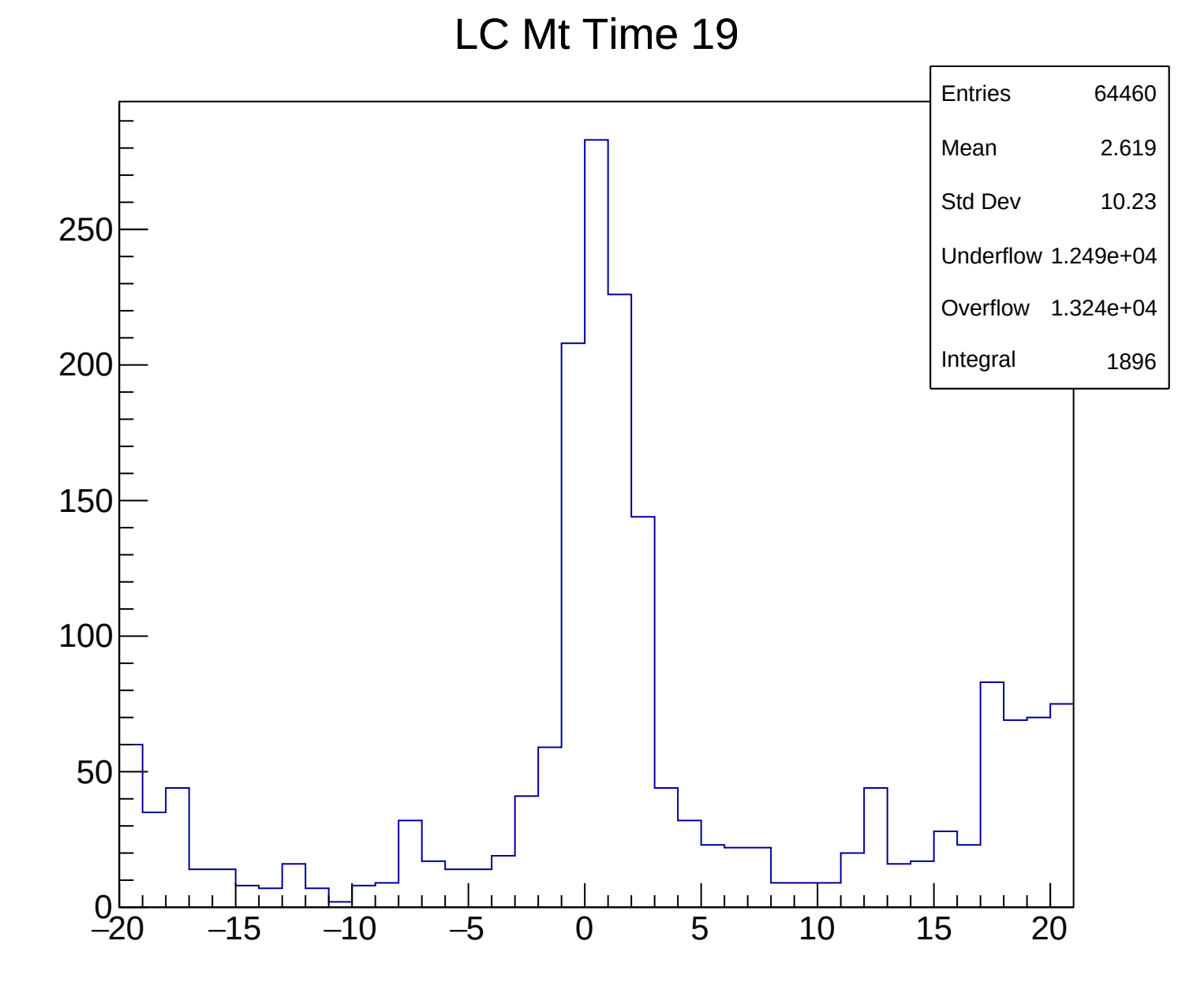
LC Mt Time 19
Entries 64460
Mean 2.619
Std Dev 10.23
Underflow 1.249e+04
Overflow 1.324e+04
Integral 1896
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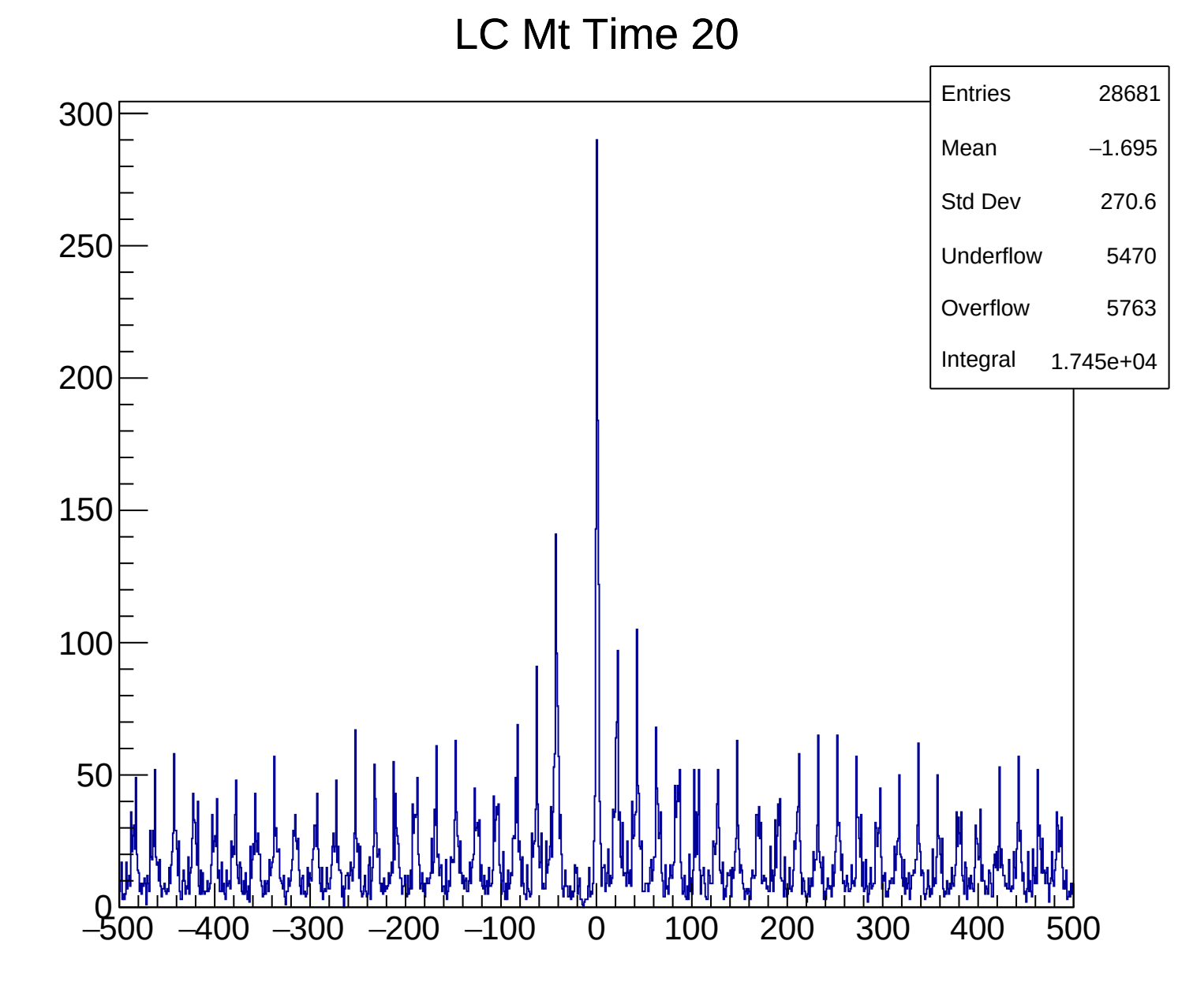
LC Mt Time 20
Entries 28681
Mean –1.695
Std Dev 270.6
Underflow 5470
Overflow 5763
Integral 1.745e+04
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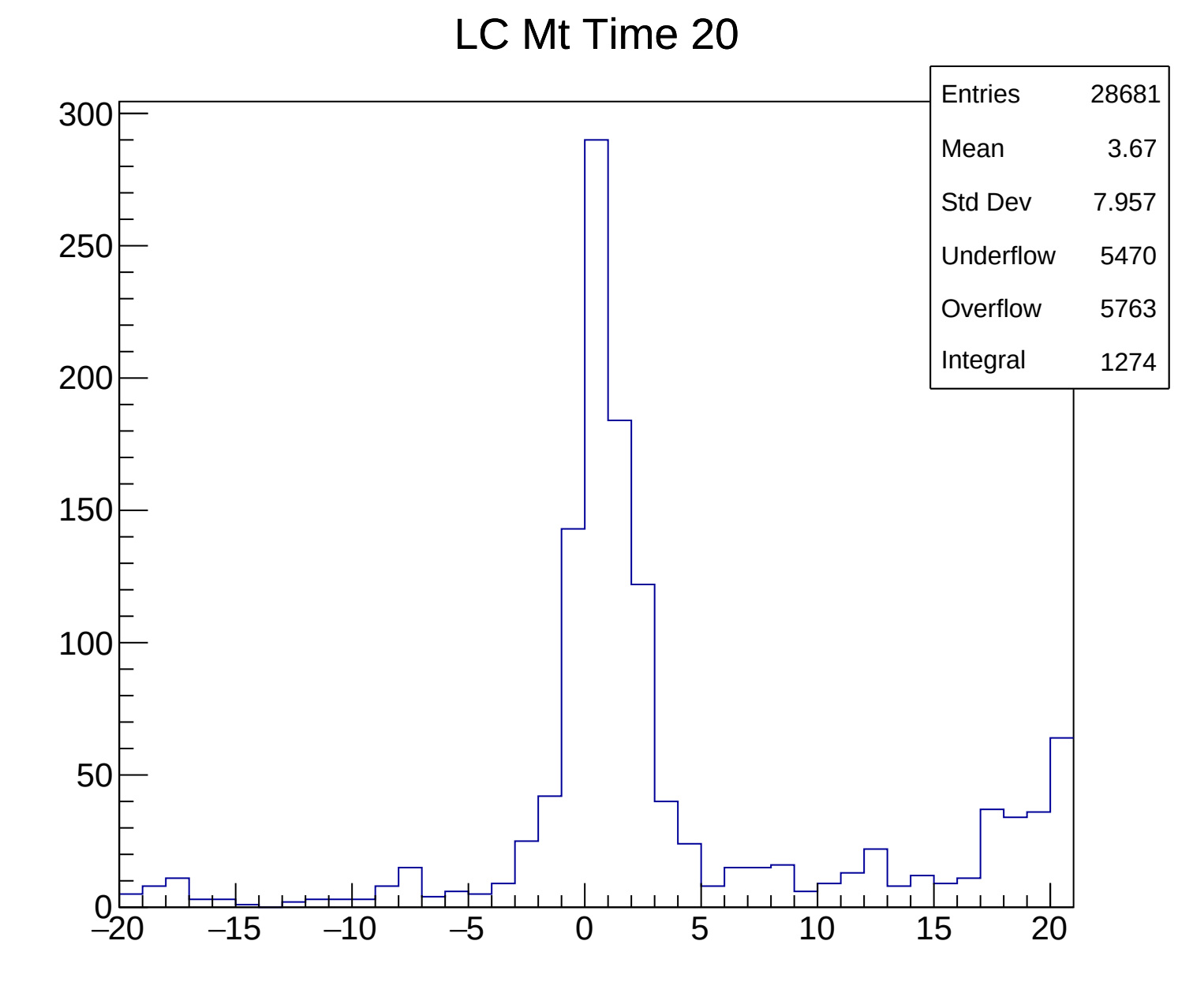
LC Mt Time 20
Entries 28681
Mean 3.67
Std Dev 7.957
Underflow 5470
Overflow 5763
Integral 1274
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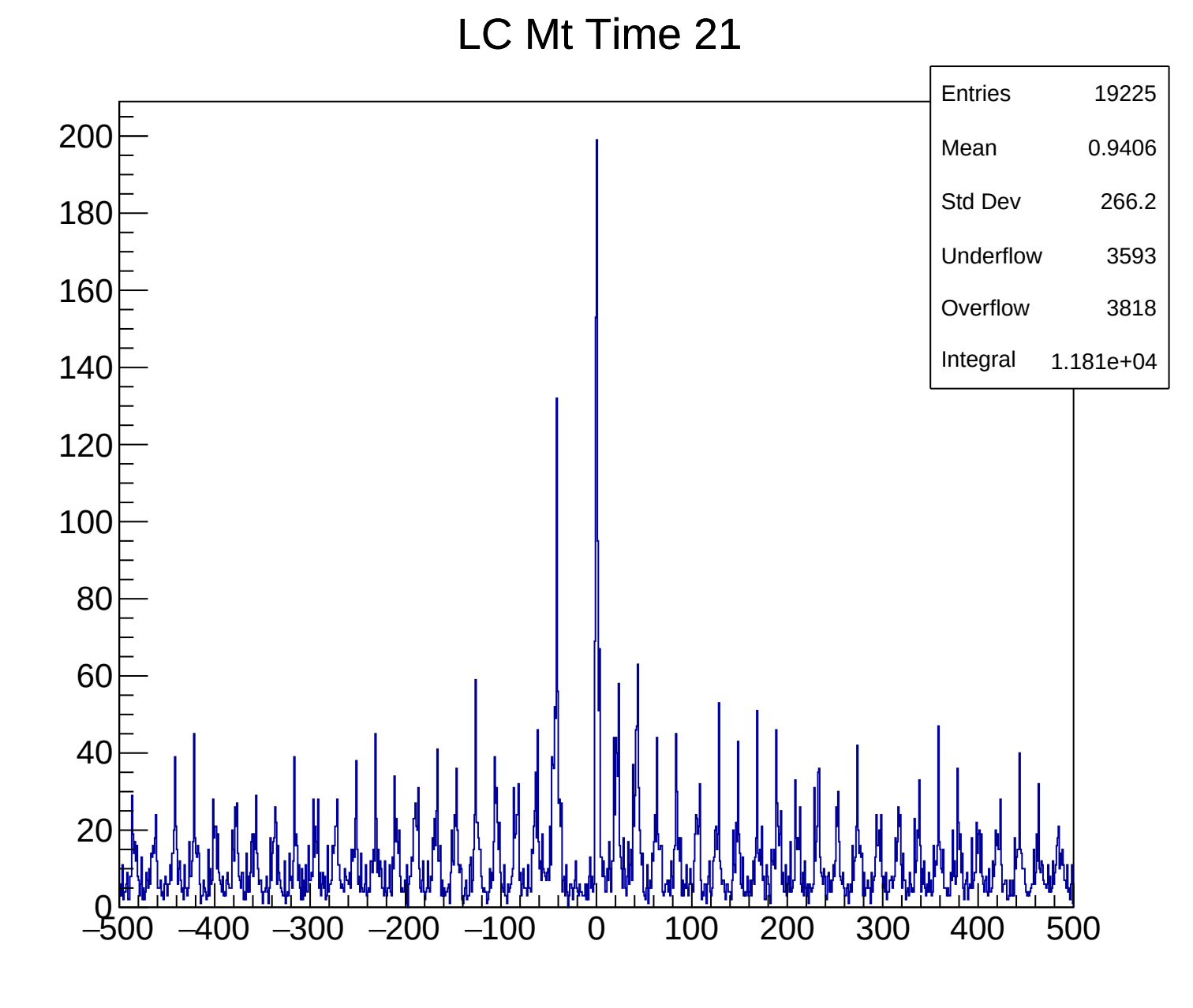
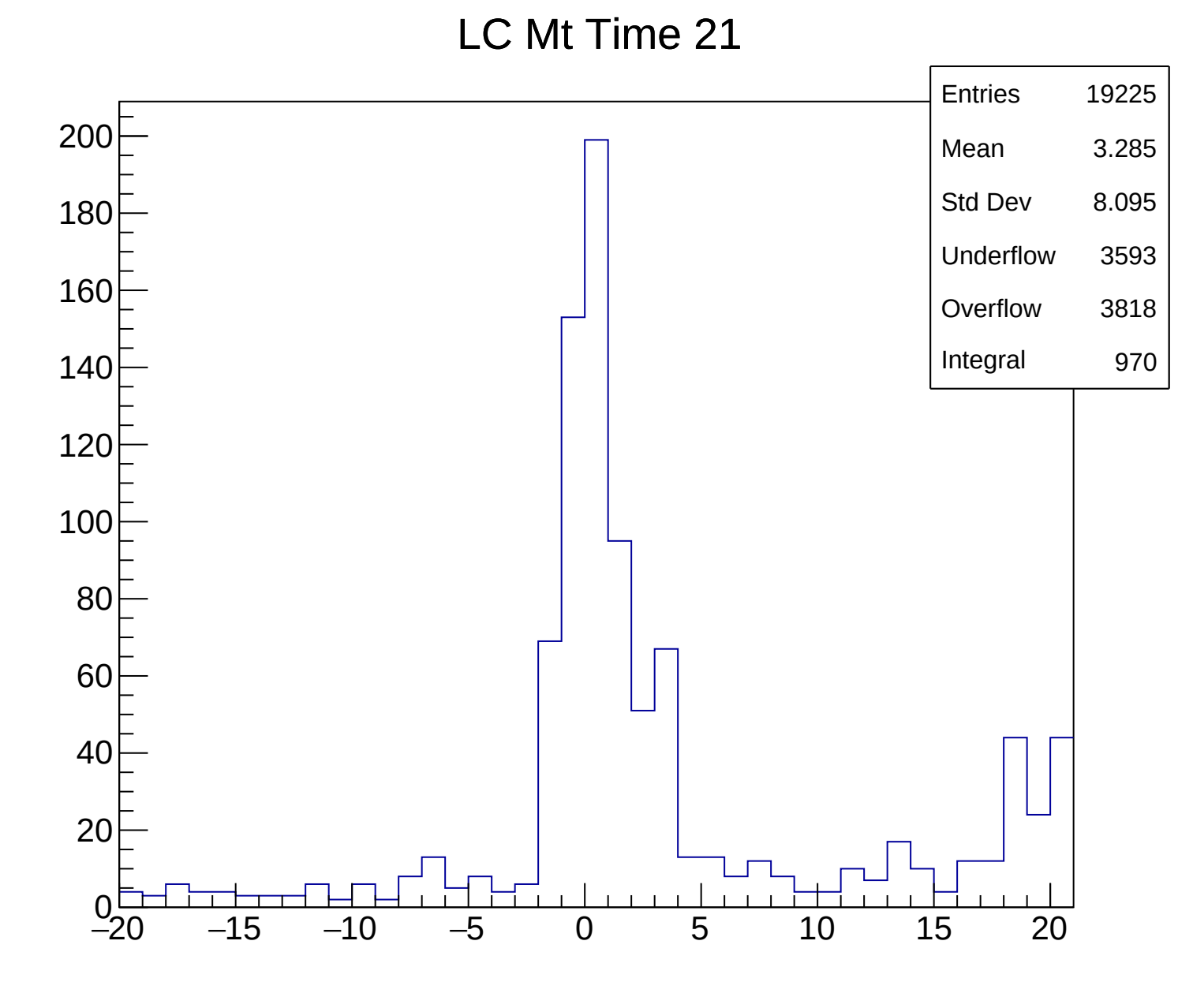

LC Mt Time 21
Entries 19225
Mean 0.9406
Std Dev 266.2
Underflow 3593
Overflow 3818
Integral 1.181e+04
200
180
160
140
120
100
80
60
40
20
0
–500
–400
–300
–200
–100
0
100
200
300
400
500


LC Mt Time 21
Entries 19225
Mean 3.285
Std Dev 8.095
Underflow 3593
Overflow 3818
Integral 970
200
180
160
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80
60
40
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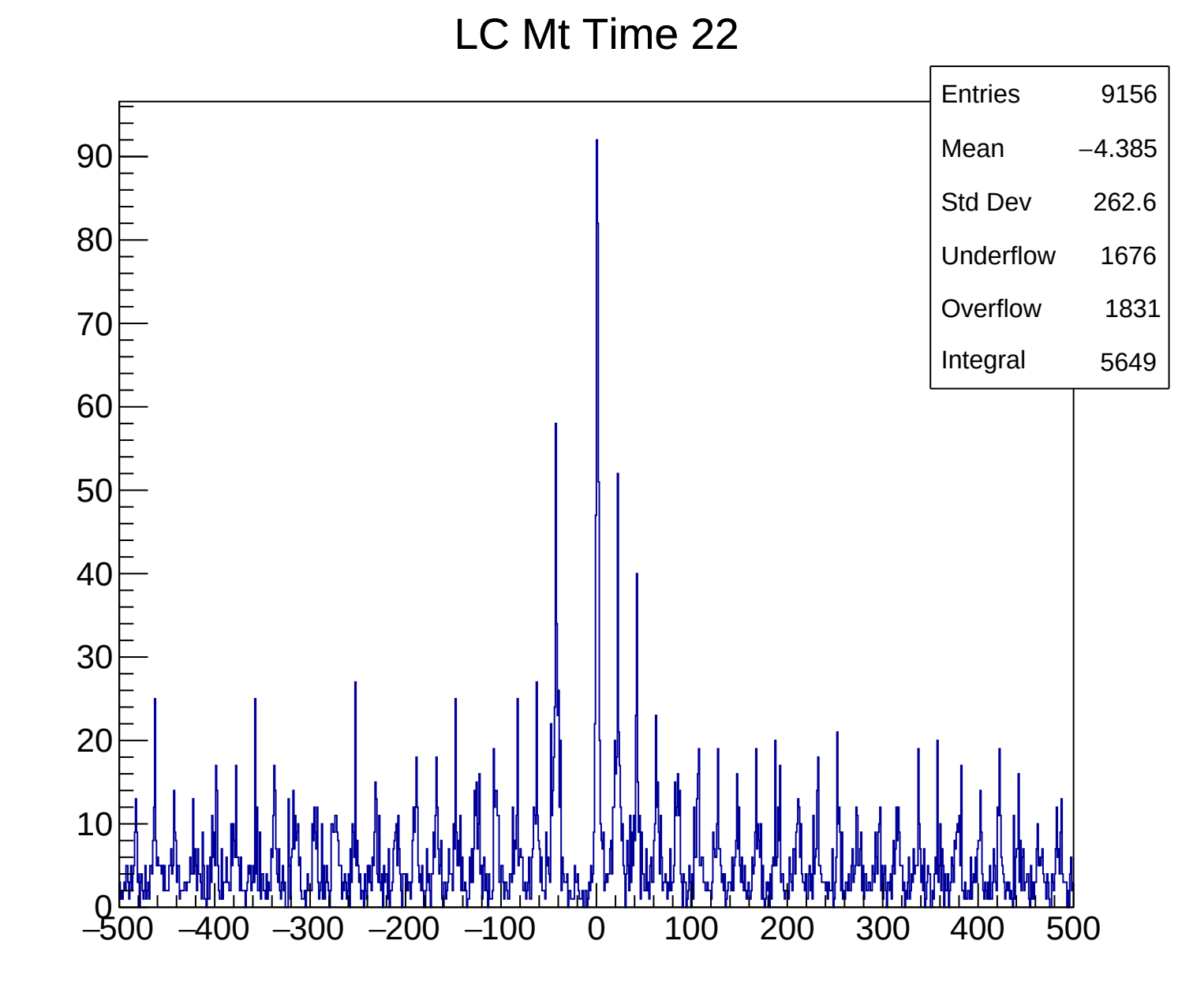
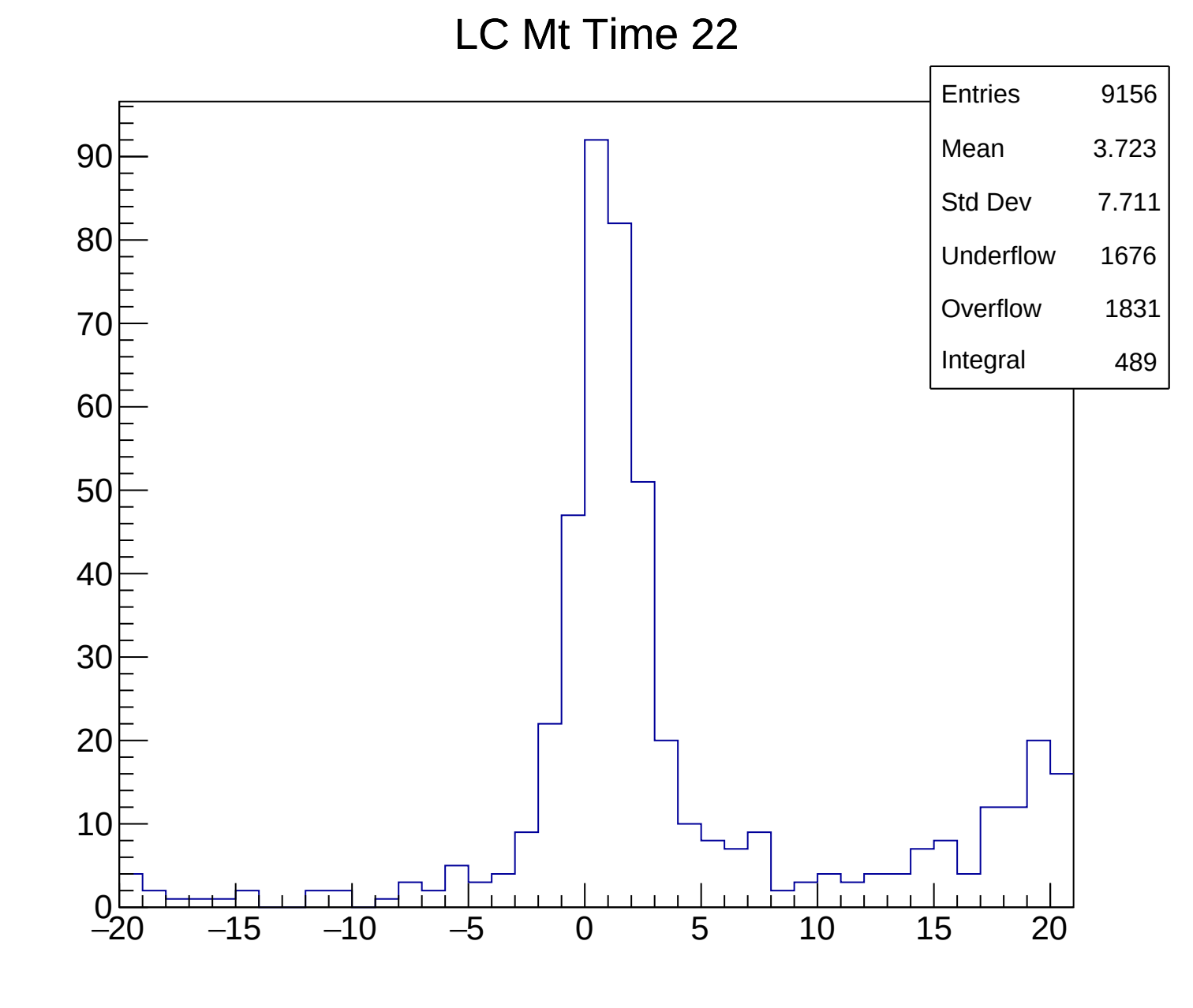
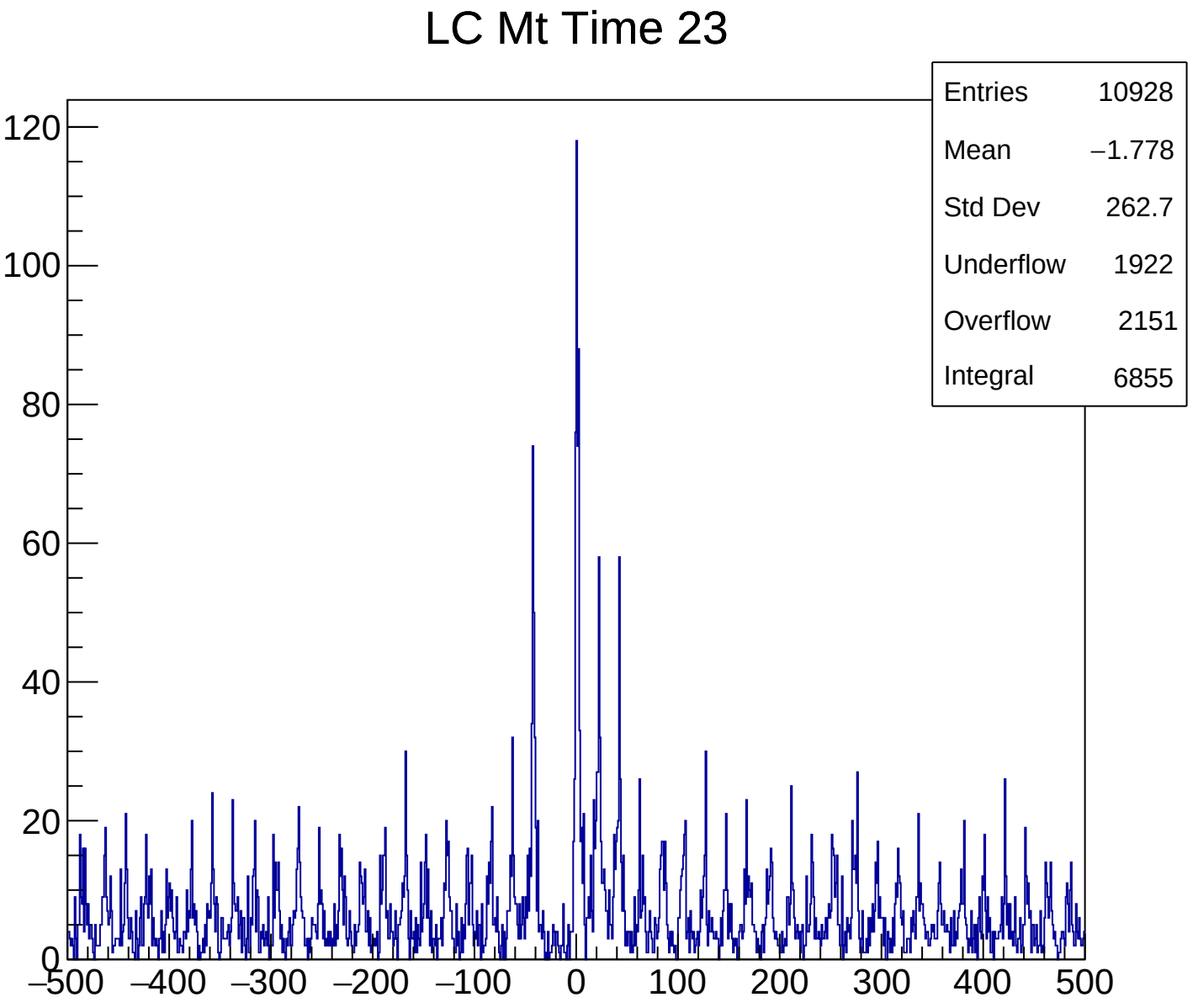
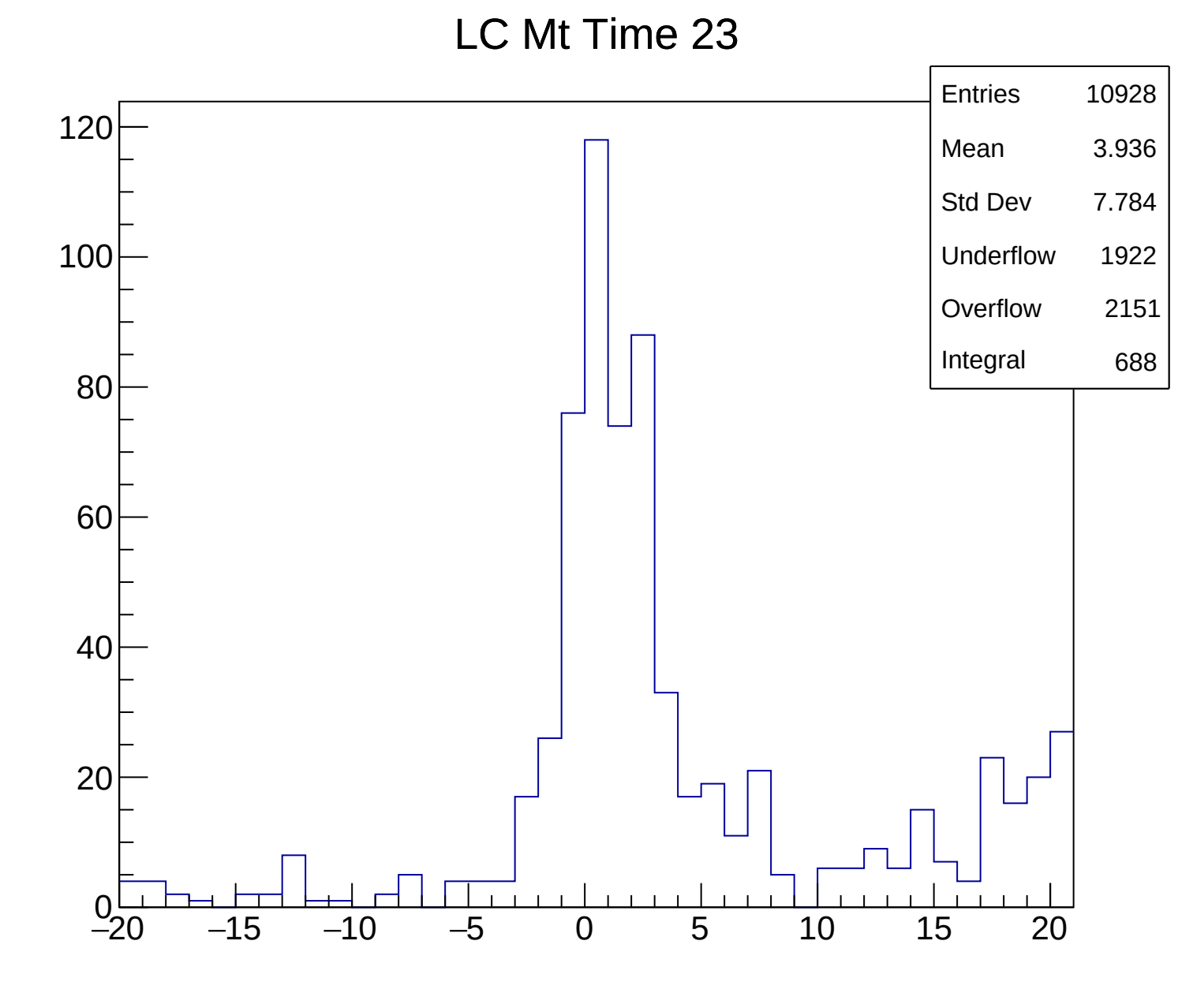
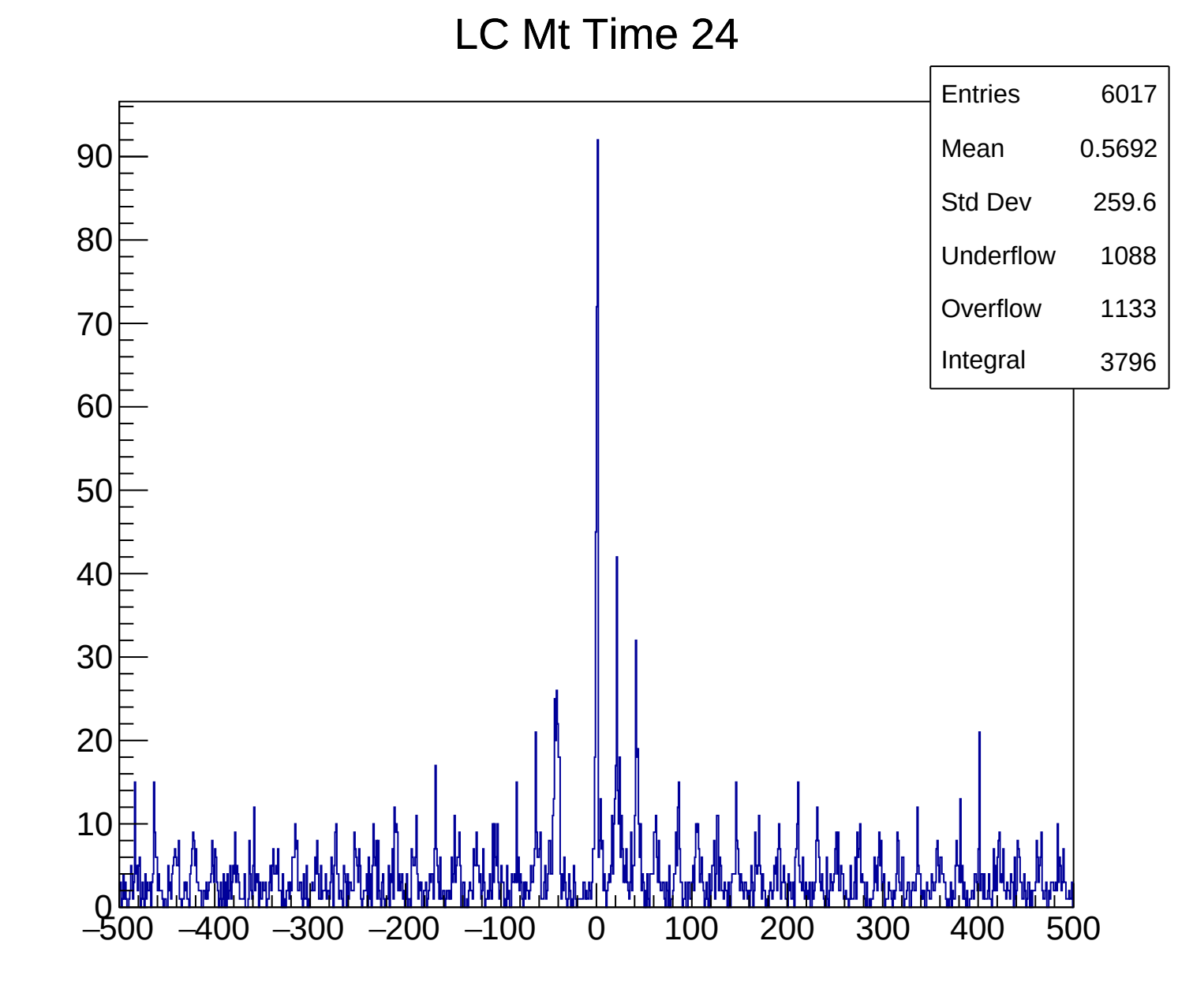
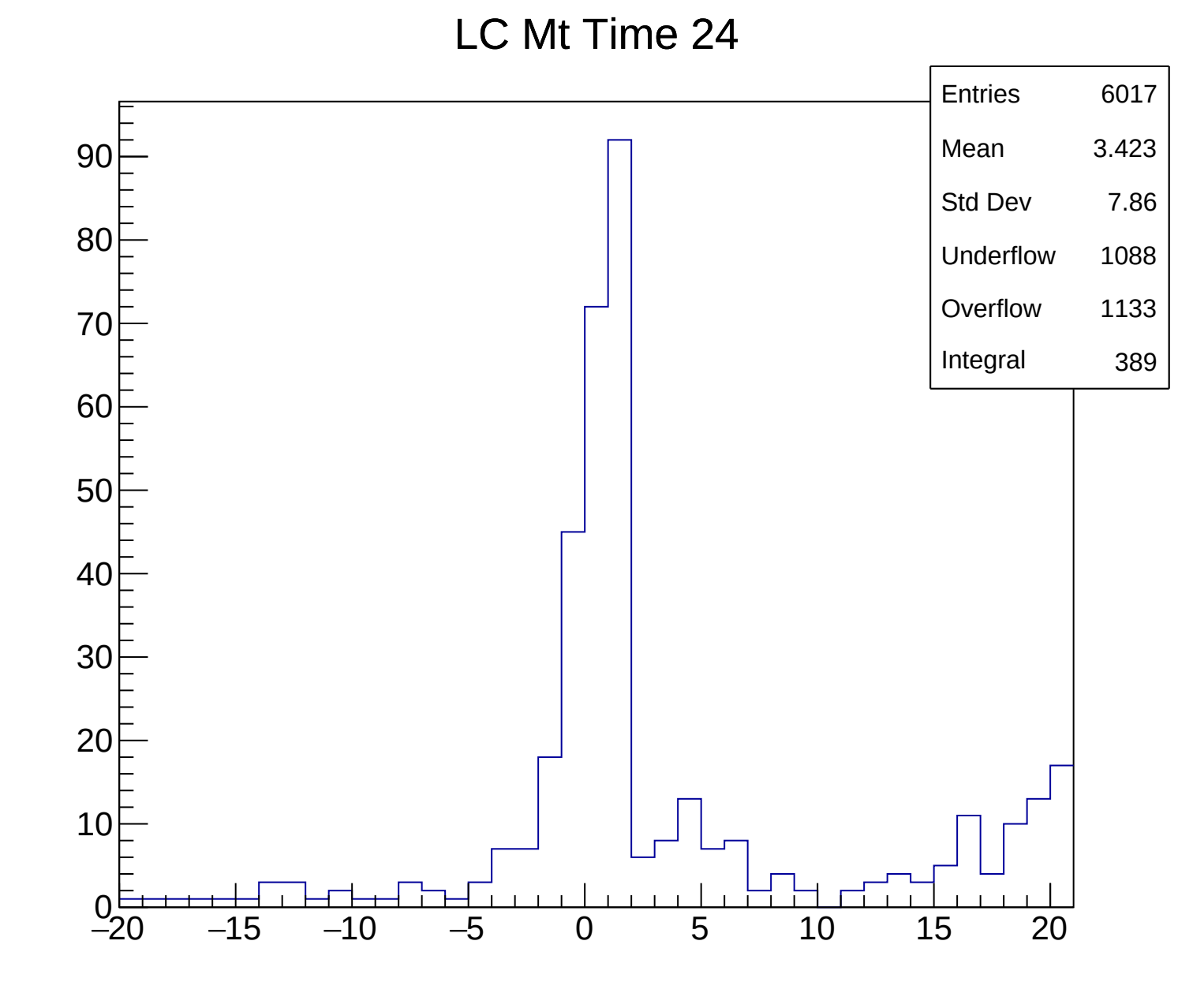

LC Mt Time 22
Entries 9156
Mean −4.385
Std Dev 262.6
Underflow 1676
Overflow 1831
Integral 5649
90
80
70
60
50
40
30
20
10
0
−500
−400
−300
−200
−100
0
100
200
300
400
500


LC Mt Time 22
Entries 9156
Mean 3.723
Std Dev 7.711
Underflow 1676
Overflow 1831
Integral 489
90
80
70
60
50
40
30
20
10
0
–20
–15
–10
–5
0
5
10
15
20


LC Mt Time 23
Entries 10928
Mean −1.778
Std Dev 262.7
Underflow 1922
Overflow 2151
Integral 6855
120
100
80
60
40
20
0
−500
−400
−300
−200
−100
0
100
200
300
400
500


LC Mt Time 23
Entries 10928
Mean 3.936
Std Dev 7.784
Underflow 1922
Overflow 2151
Integral 688
120
100
80
60
40
20
0
–20
–15
–10
–5
0
5
10
15
20


LC Mt Time 24
Entries 6017
Mean 0.5692
Std Dev 259.6
Underflow 1088
Overflow 1133
Integral 3796
90
80
70
60
50
40
30
20
10
0
–500
–400
–300
–200
–100
0
100
200
300
400
500


LC Mt Time 24
Entries 6017
Mean 3.423
Std Dev 7.86
Underflow 1088
Overflow 1133
Integral 389
90
80
70
60
50
40
30
20
10
0
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–10
–5
0
5
10
15
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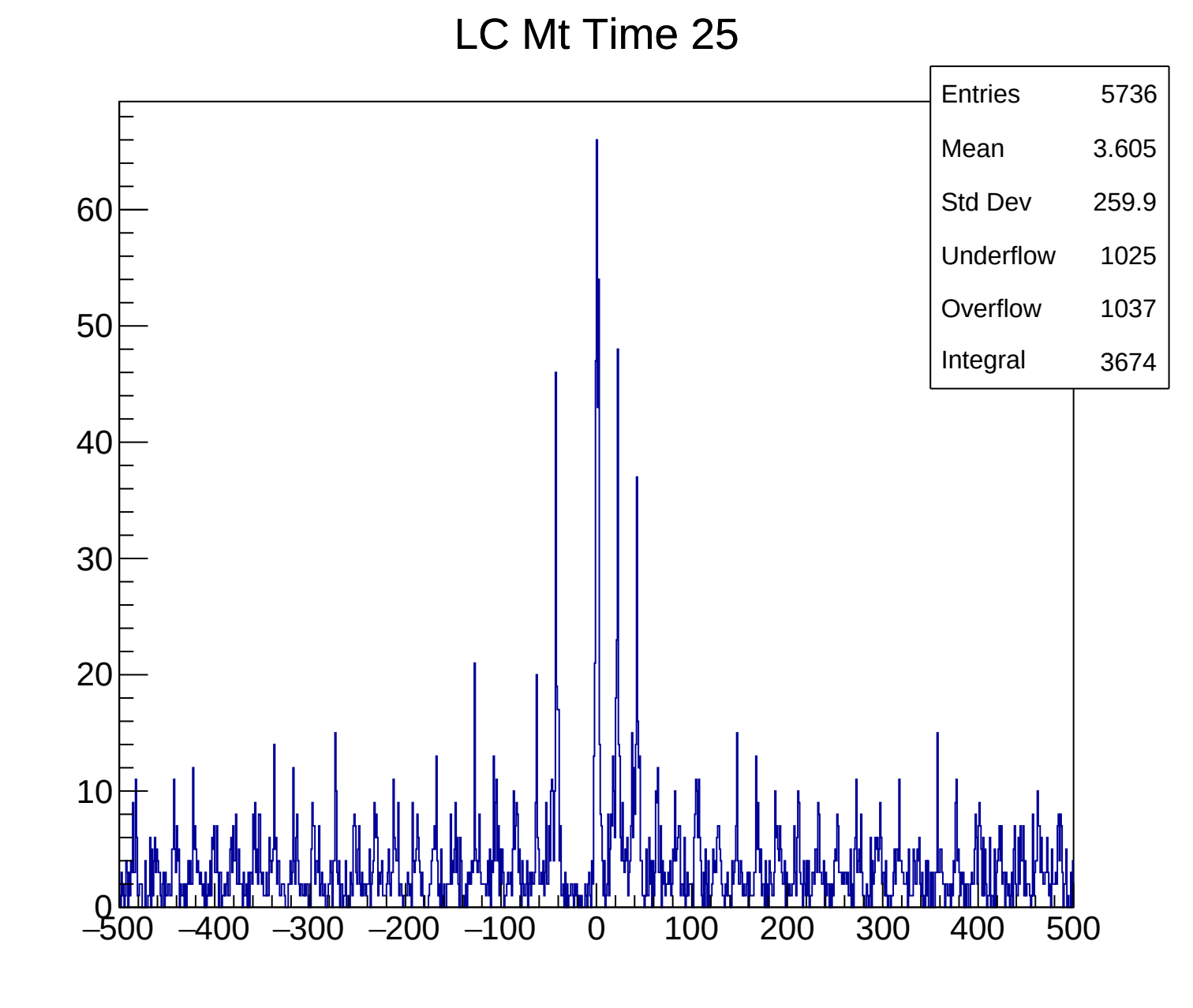
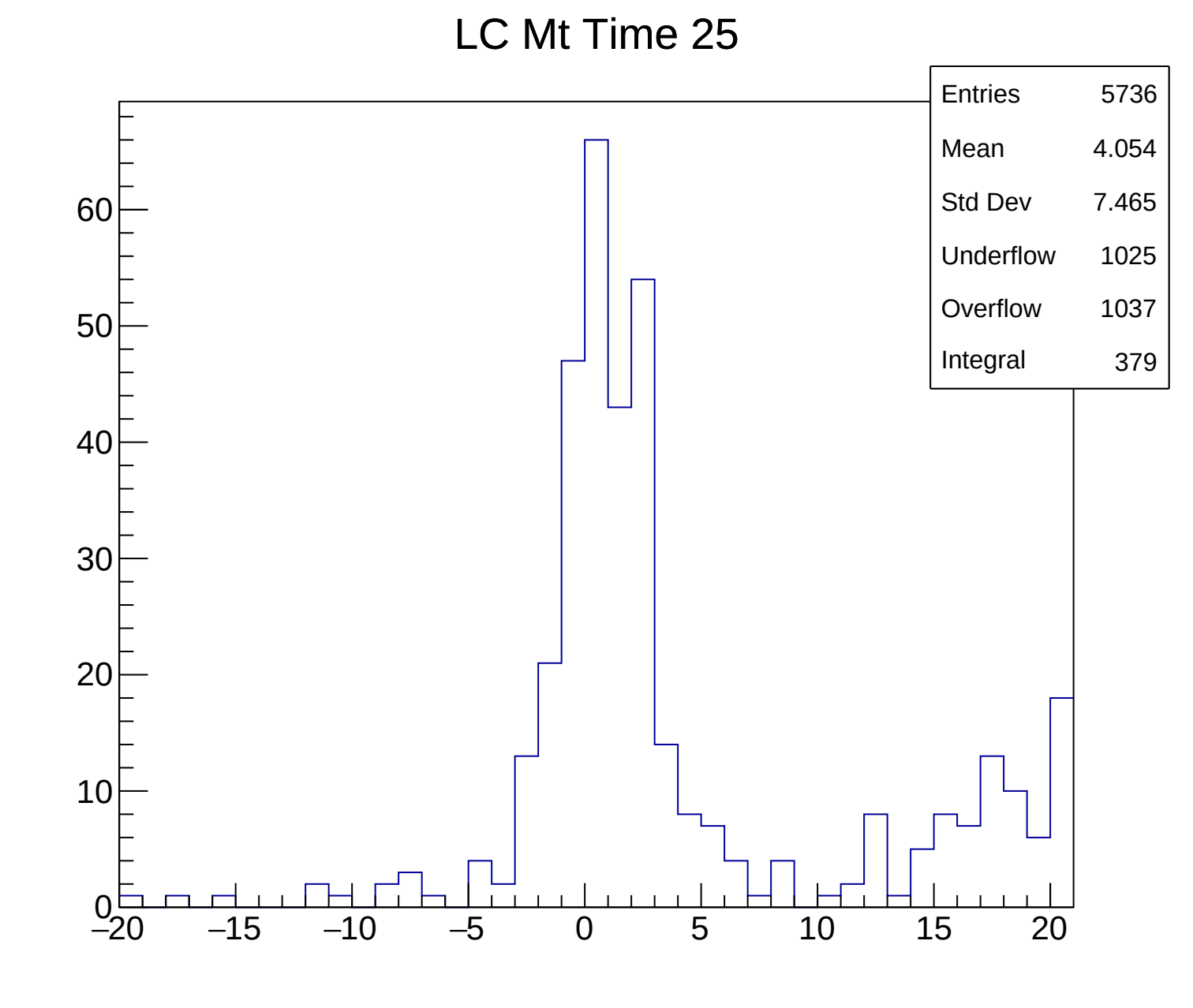
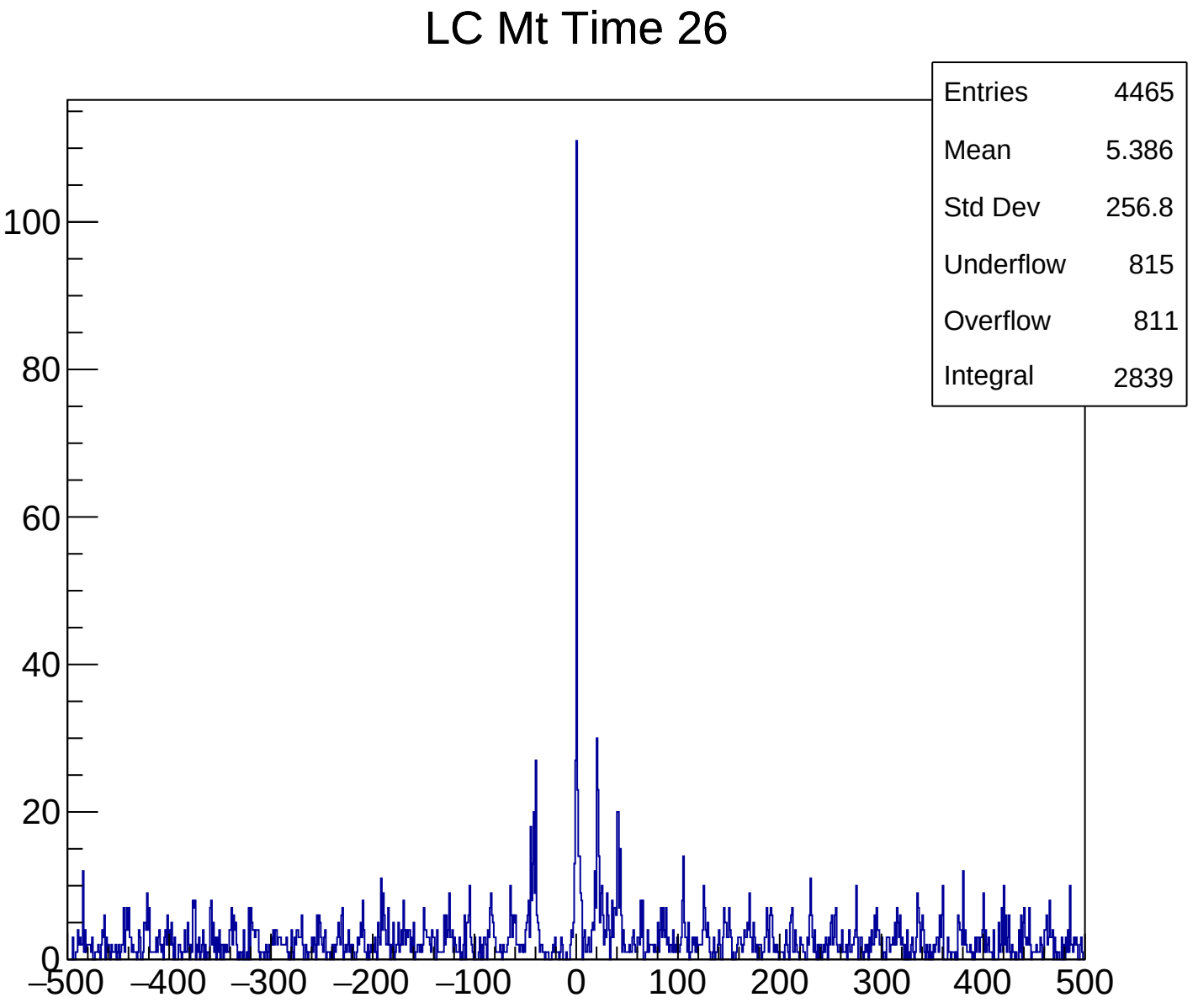
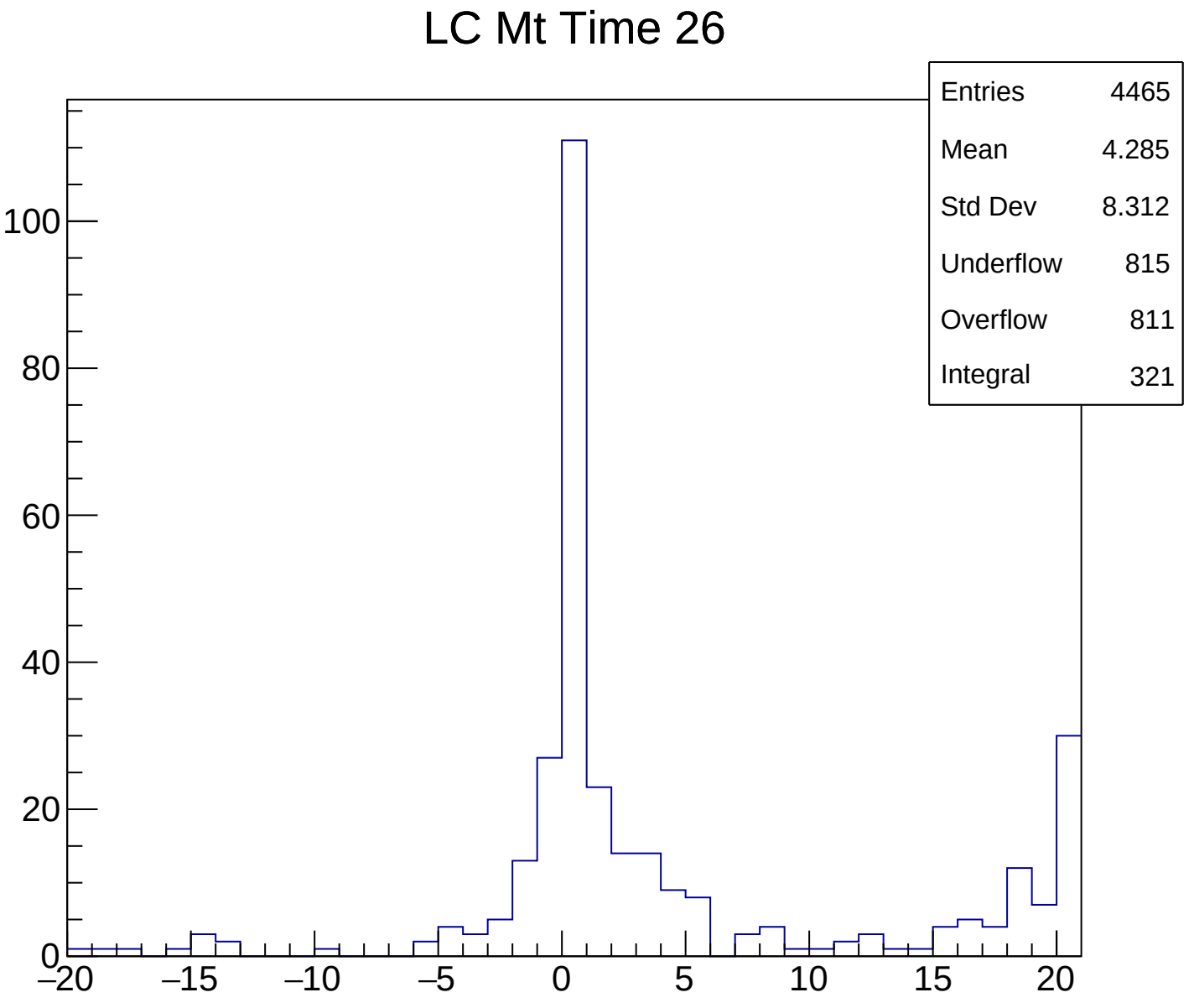
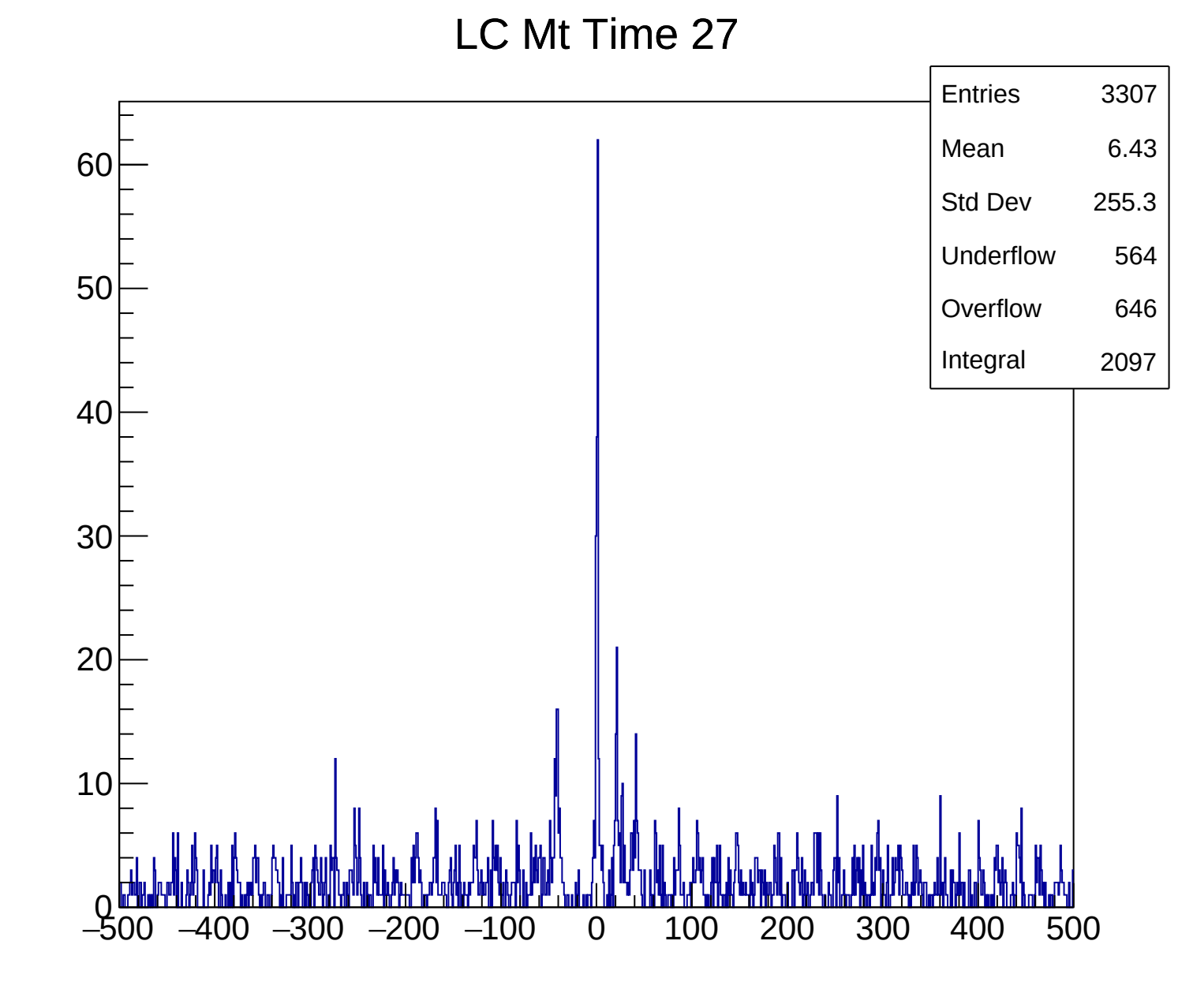
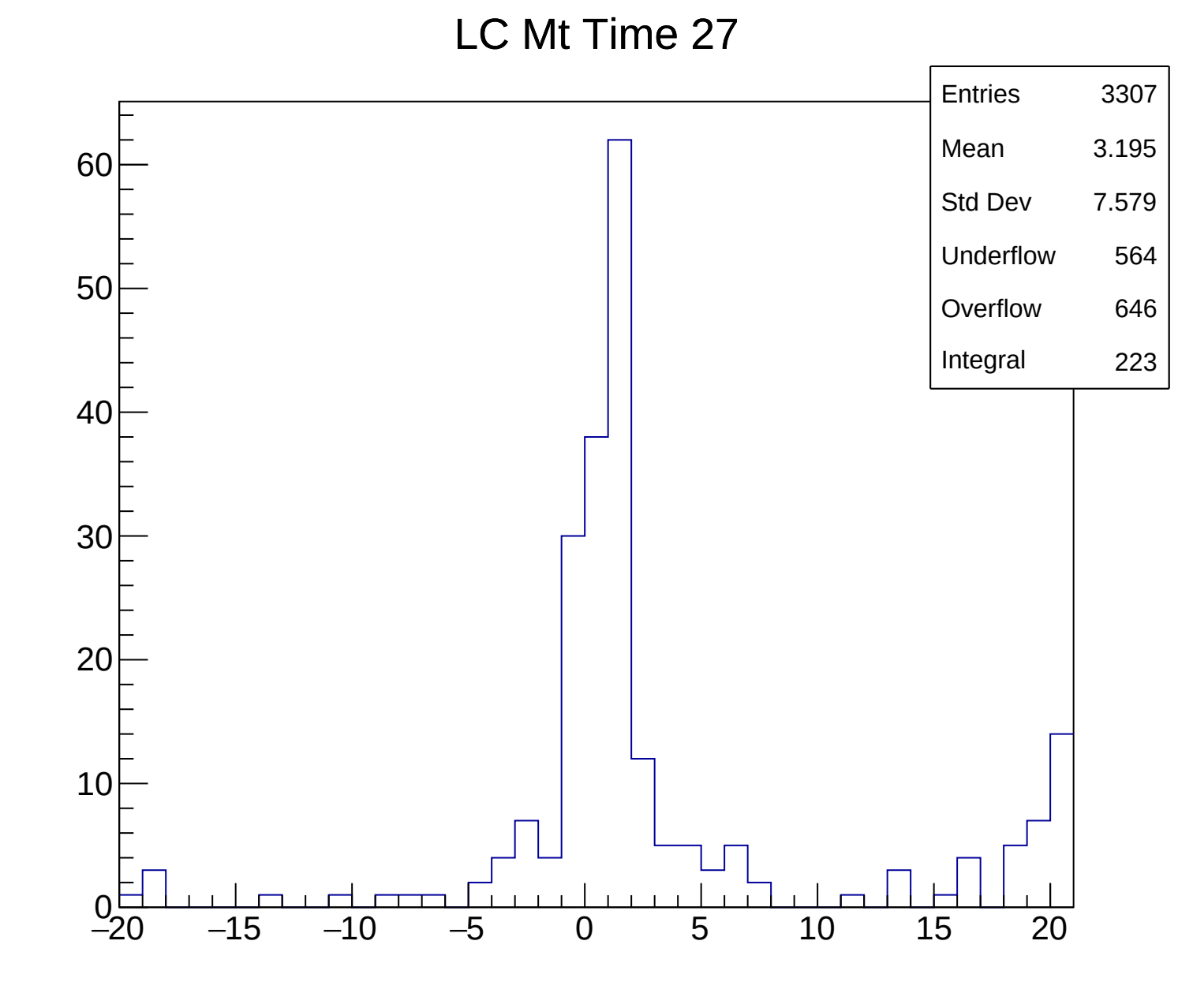

LC Mt Time 25
Entries 5736
Mean 3.605
Std Dev 259.9
Underflow 1025
Overflow 1037
Integral 3674
0
10
20
30
40
50
60
–500
–400
–300
–200
–100
0
100
200
300
400
500

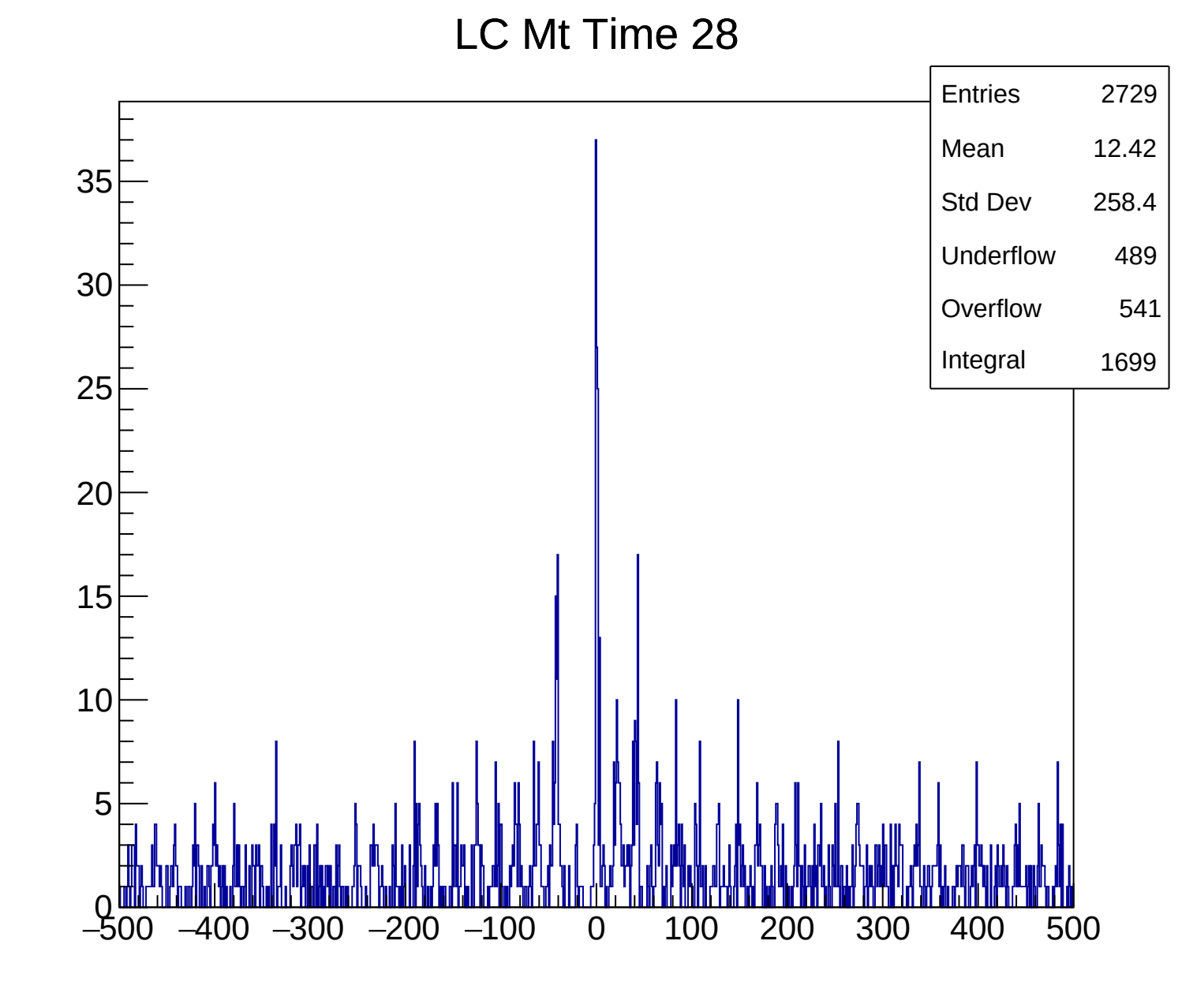

LC Mt Time 25
Entries 5736
Mean 4.054
Std Dev 7.465
Underflow 1025
Overflow 1037
Integral 379
60
50
40
30
20
10
0
–20
–15
–10
–5
0
5
10
15
20

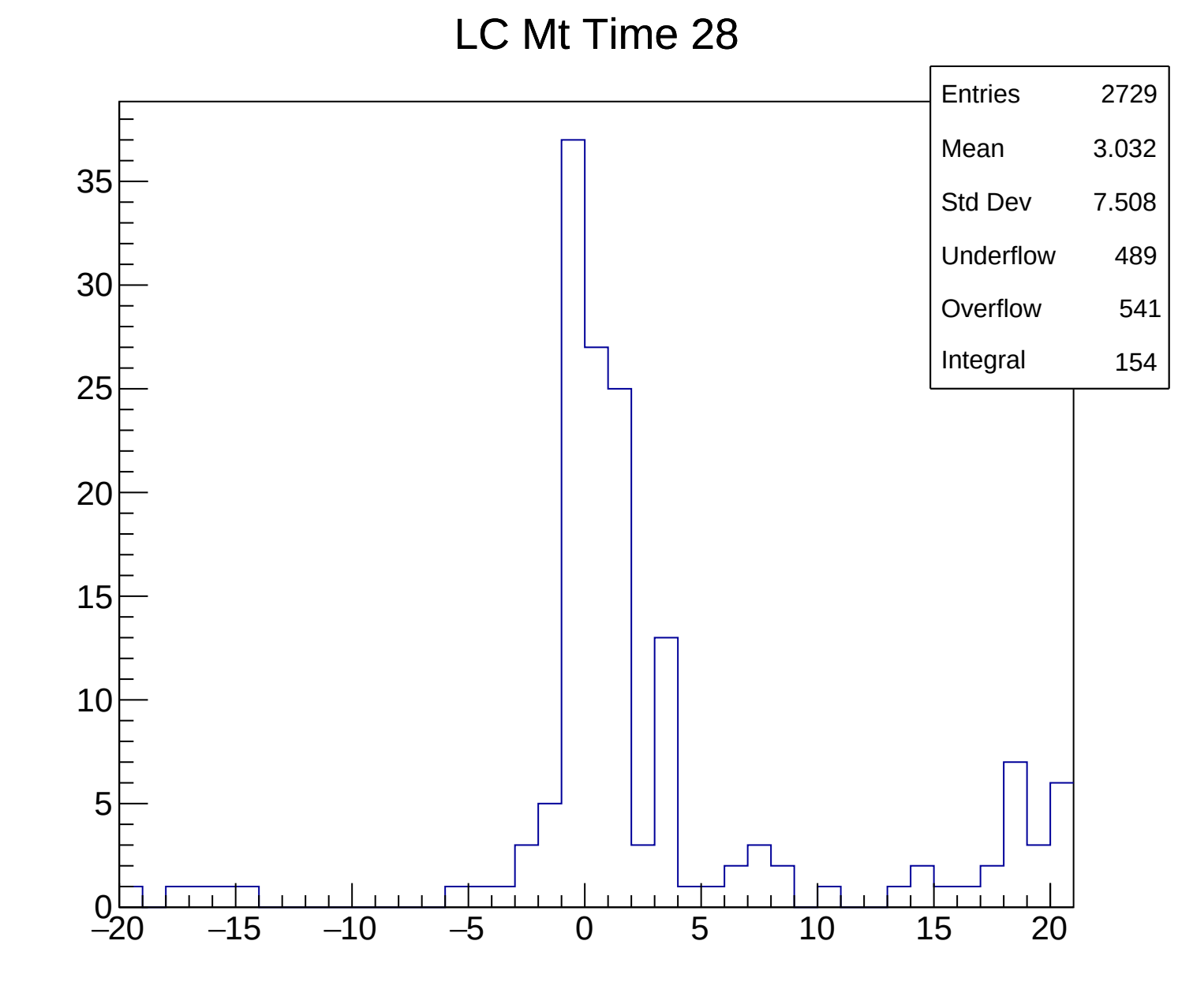

LC Mt Time 26
Entries 4465
Mean 5.386
Std Dev 256.8
Underflow 815
Overflow 811
Integral 2839
100
80
60
40
20
0
–500
–400
–300
–200
–100
0
100
200
300
400
500

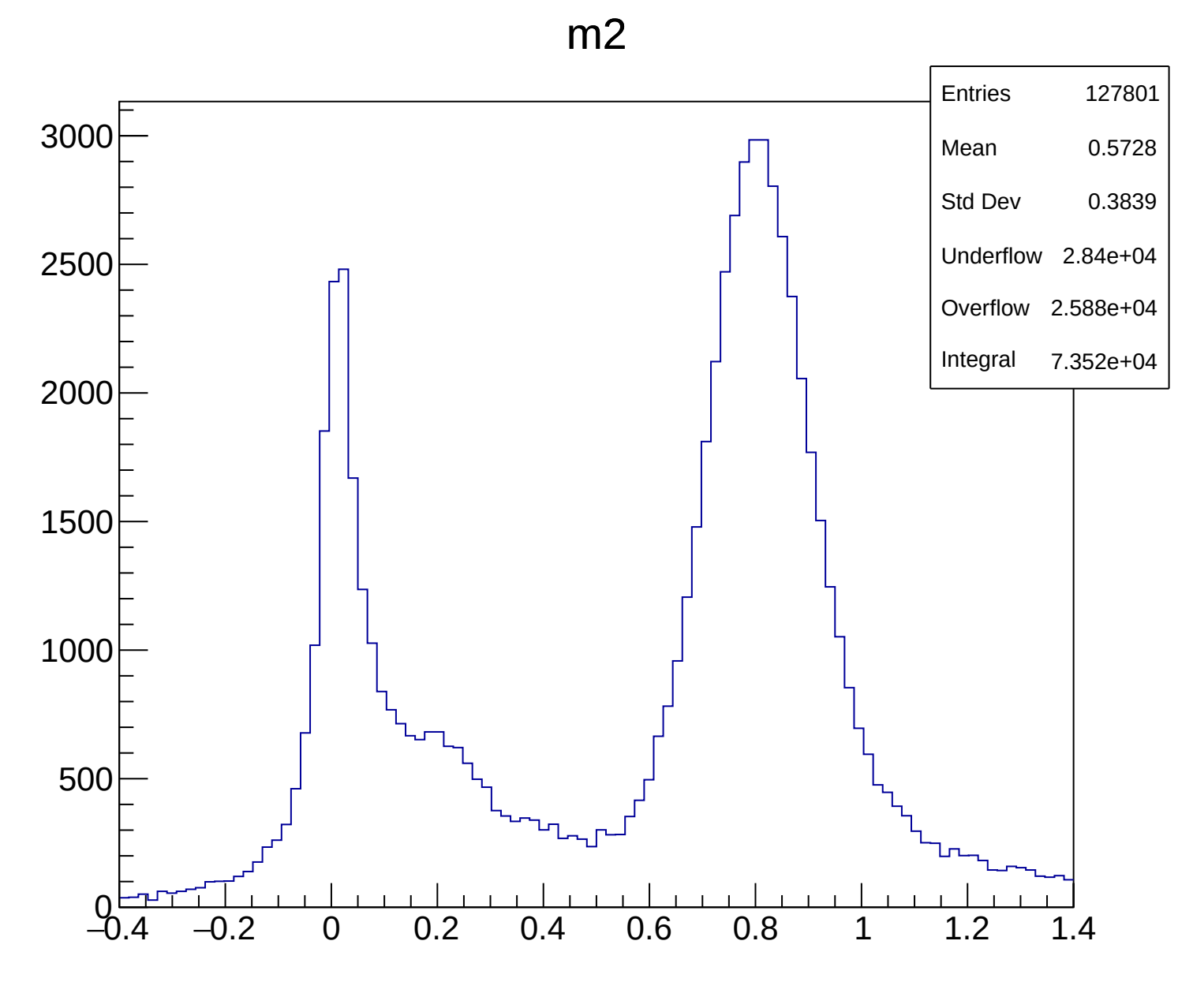

LC Mt Time 26
Entries 4465
Mean 4.285
Std Dev 8.312
Underflow 815
Overflow 811
Integral 321
100
80
60
40
20
0
–20
–15
–10
–5
0
5
10
15
20

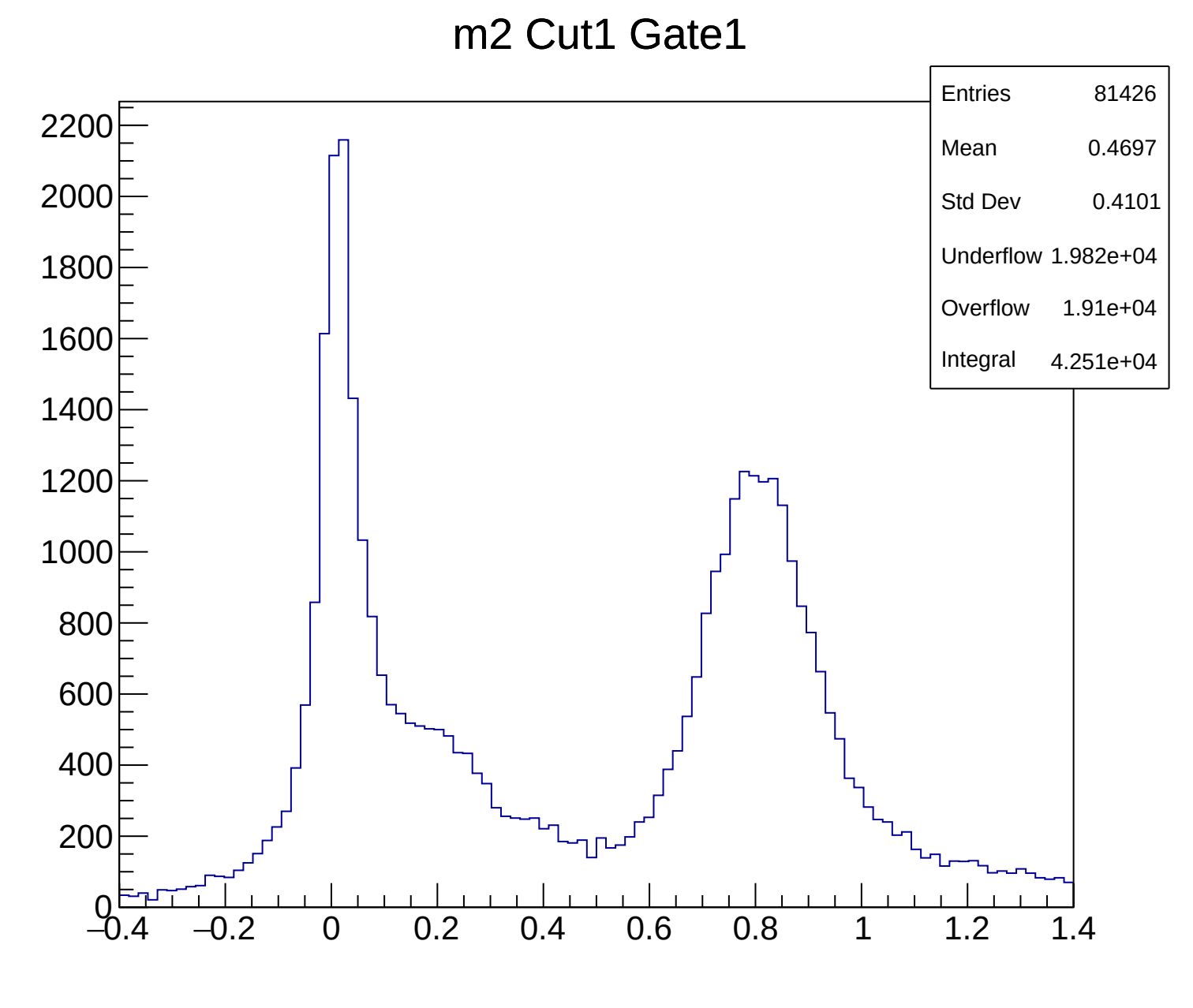

LC Mt Time 27
Entries 3307
Mean 6.43
Std Dev 255.3
Underflow 564
Overflow 646
Integral 2097
60
50
40
30
20
10
0
–500
–400
–300
–200
–100
0
100
200
300
400
500

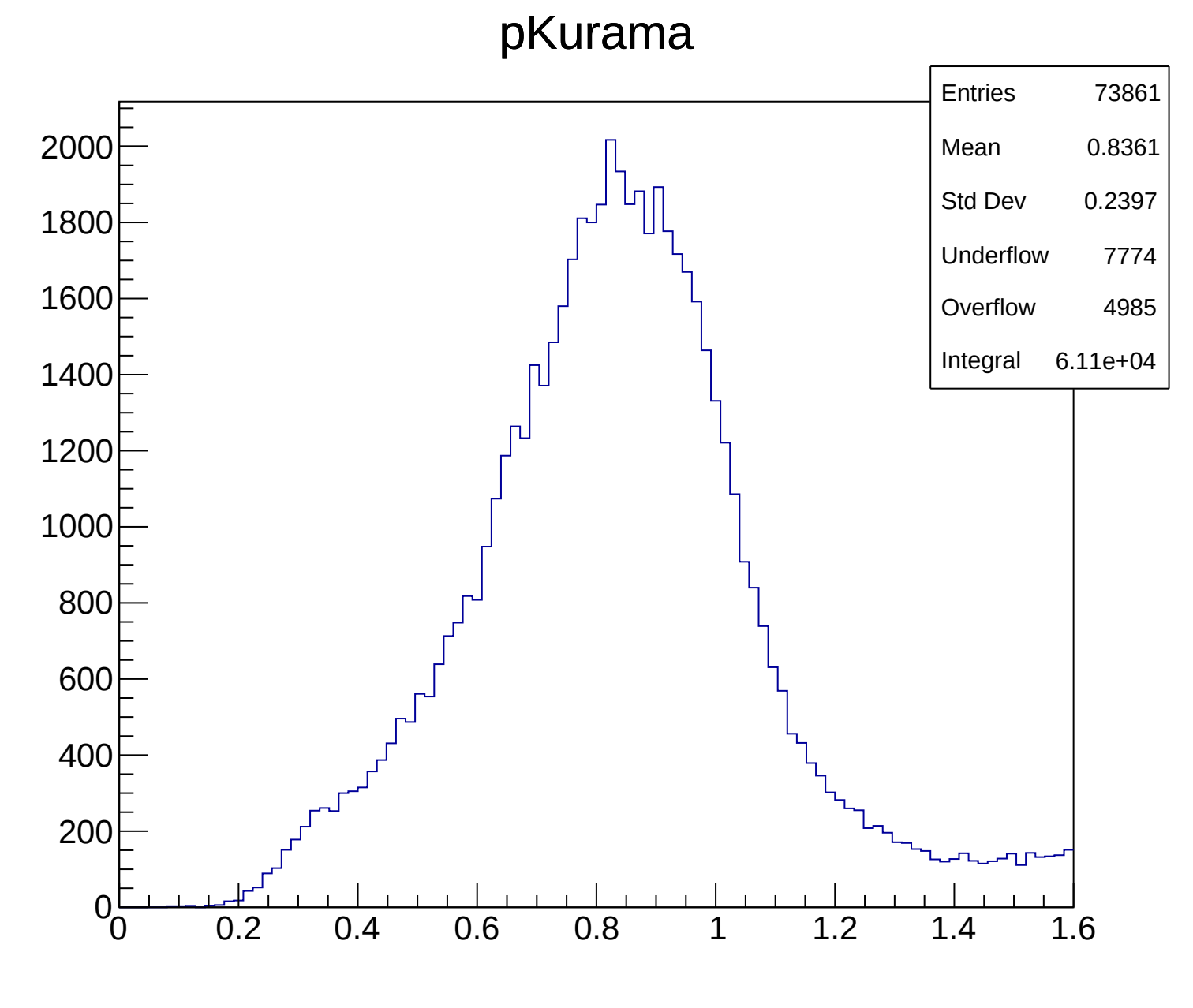

LC Mt Time 27
Entries 3307
Mean 3.195
Std Dev 7.579
Underflow 564
Overflow 646
Integral 223
60
50
40
30
20
10
0
–20
–15
–10
–5
0
5
10
15
20

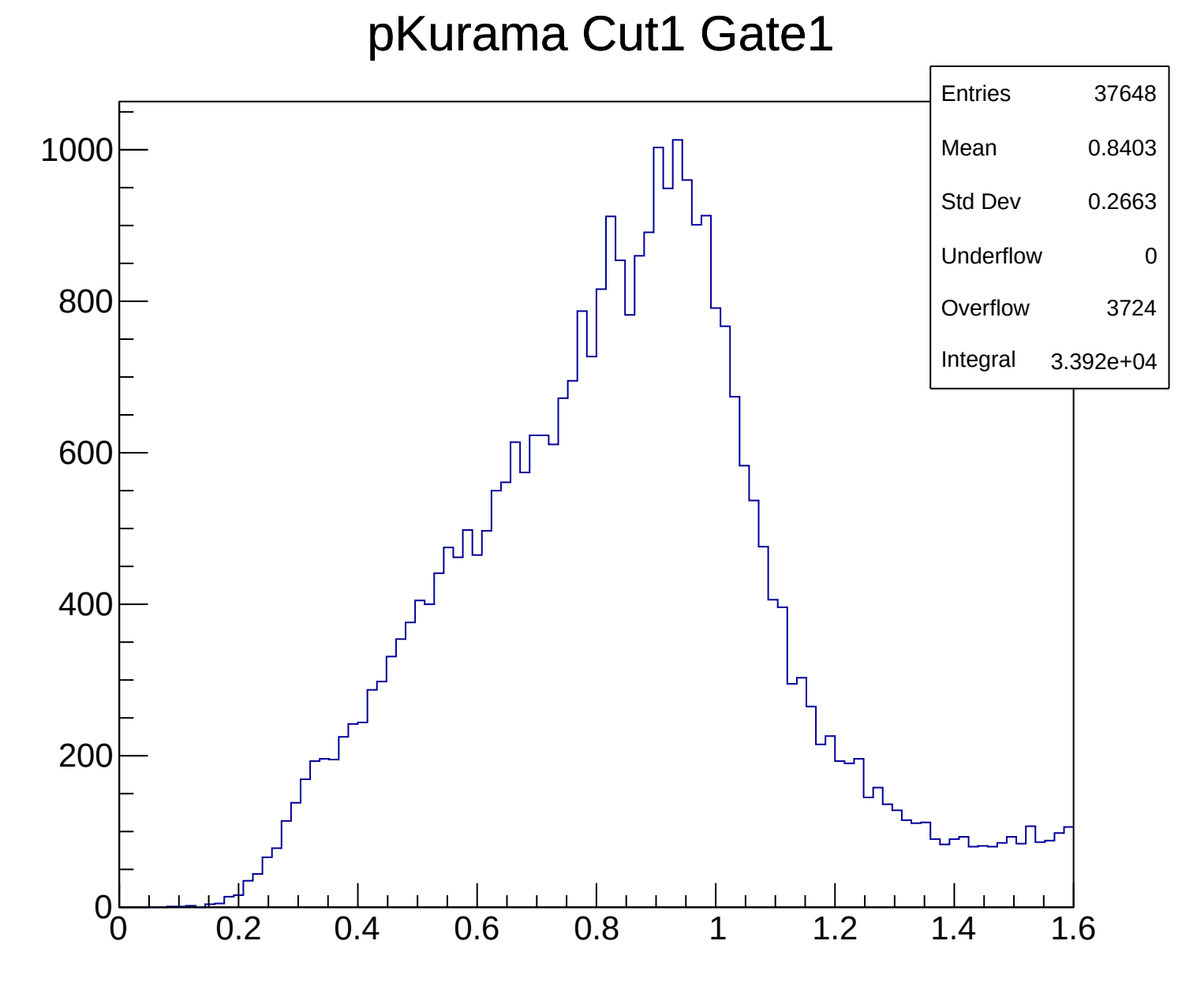

LC Mt Time 28
Entries 2729
Mean 12.42
Std Dev 258.4
Underflow 489
Overflow 541
Integral 1699
35
30
25
20
15
10
5
0
–500
–400
–300
–200
–100
0
100
200
300
400
500

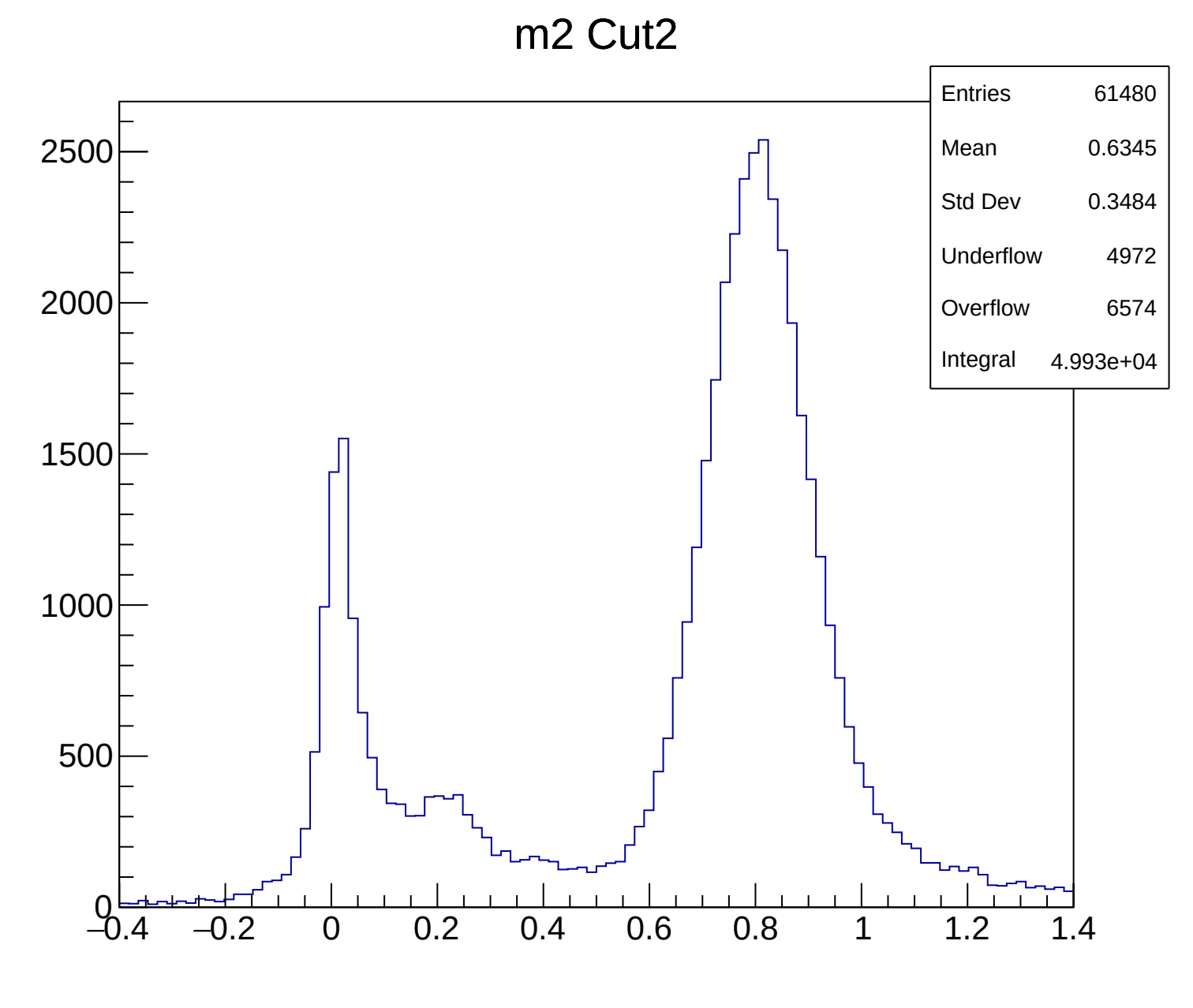

LC Mt Time 28
Entries 2729
Mean 3.032
Std Dev 7.508
Underflow 489
Overflow 541
Integral 154
35
30
25
20
15
10
5
0
–20
–15
–10
–5
0
5
10
15
20

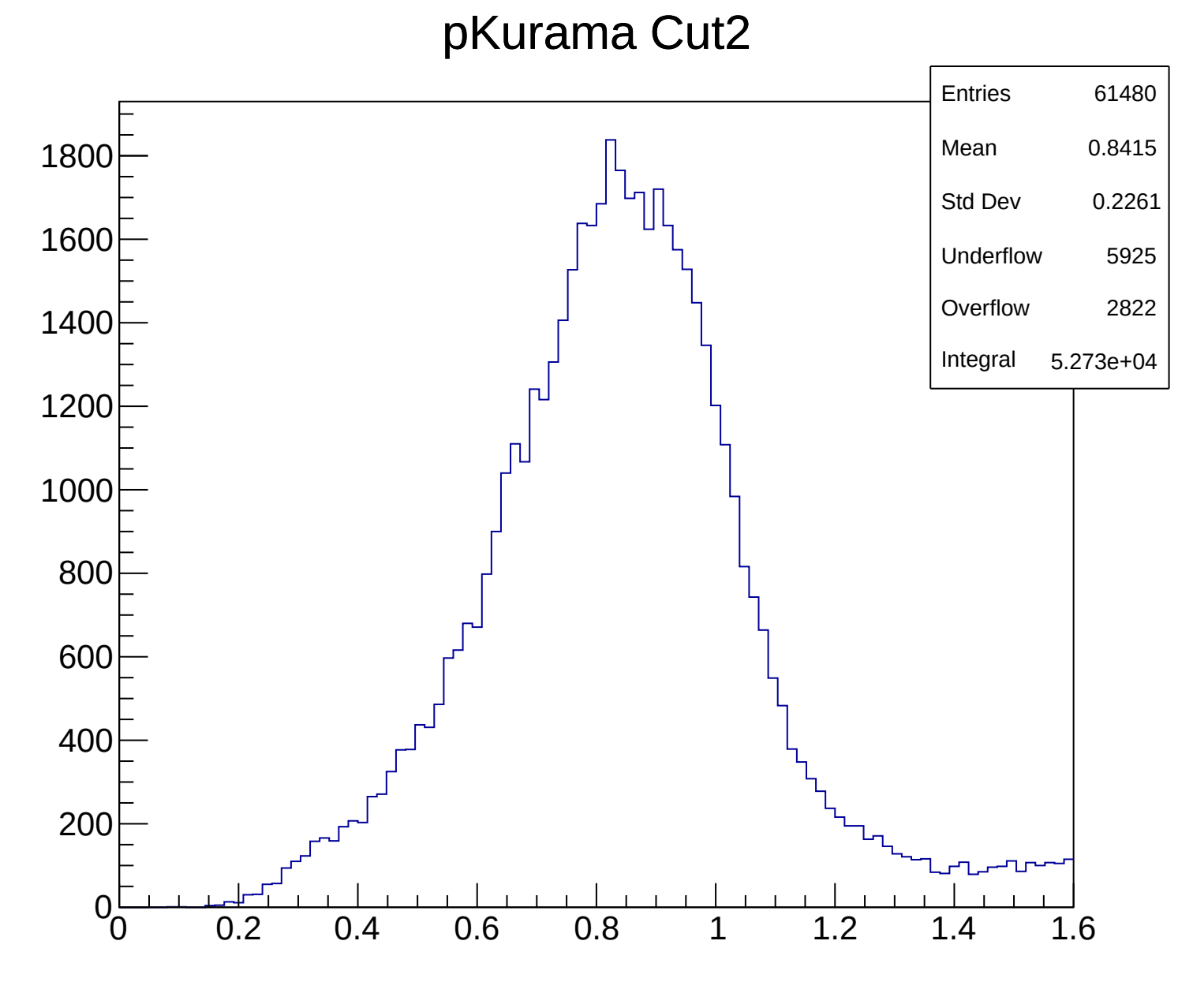

m2
Entries 127801
Mean 0.5728
Std Dev 0.3839
Underflow 2.84e+04
Overflow 2.588e+04
Integral 7.352e+04
3000
2500
2000
1500
1000
500
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4

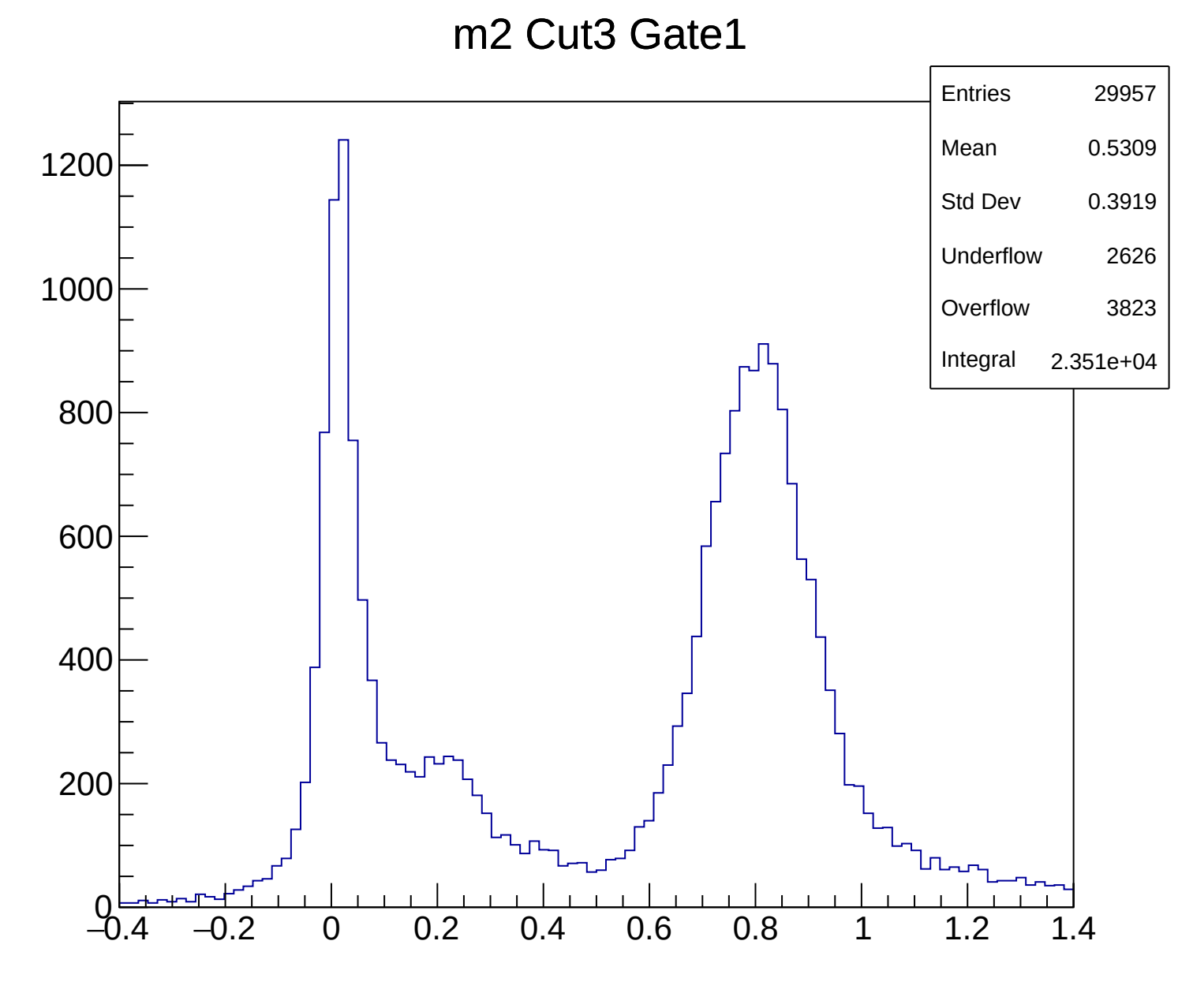

m2 Cut1 Gate1
Entries 81426
Mean 0.4697
Std Dev 0.4101
Underflow 1.982e+04
Overflow 1.91e+04
Integral 4.251e+04
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4

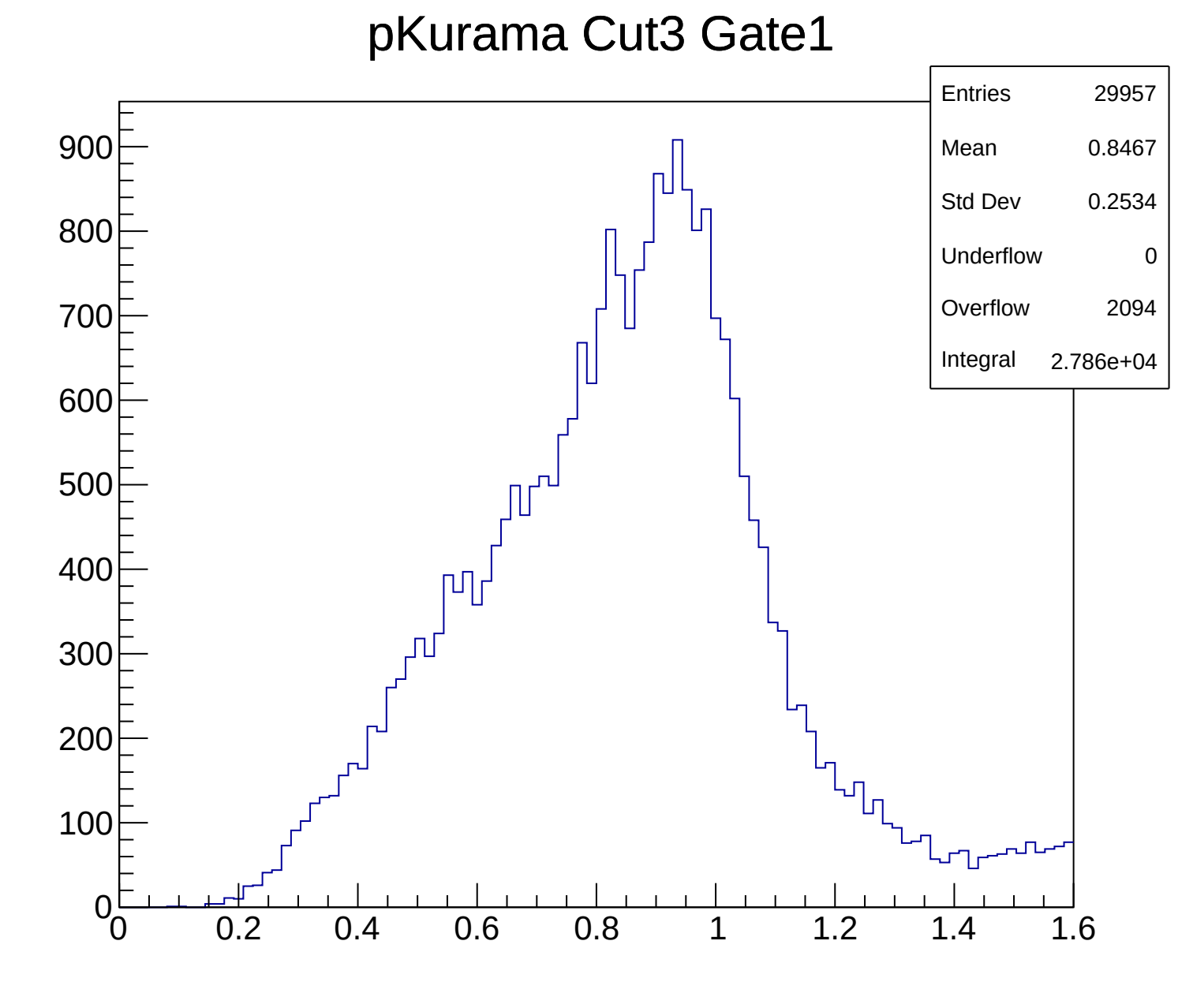

pKurama
Entries 73861
Mean 0.8361
Std Dev 0.2397
Underflow 7774
Overflow 4985
Integral 6.11e+04
2000
1800
1600
1400
1200
1000
800
600
400
200
0
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6

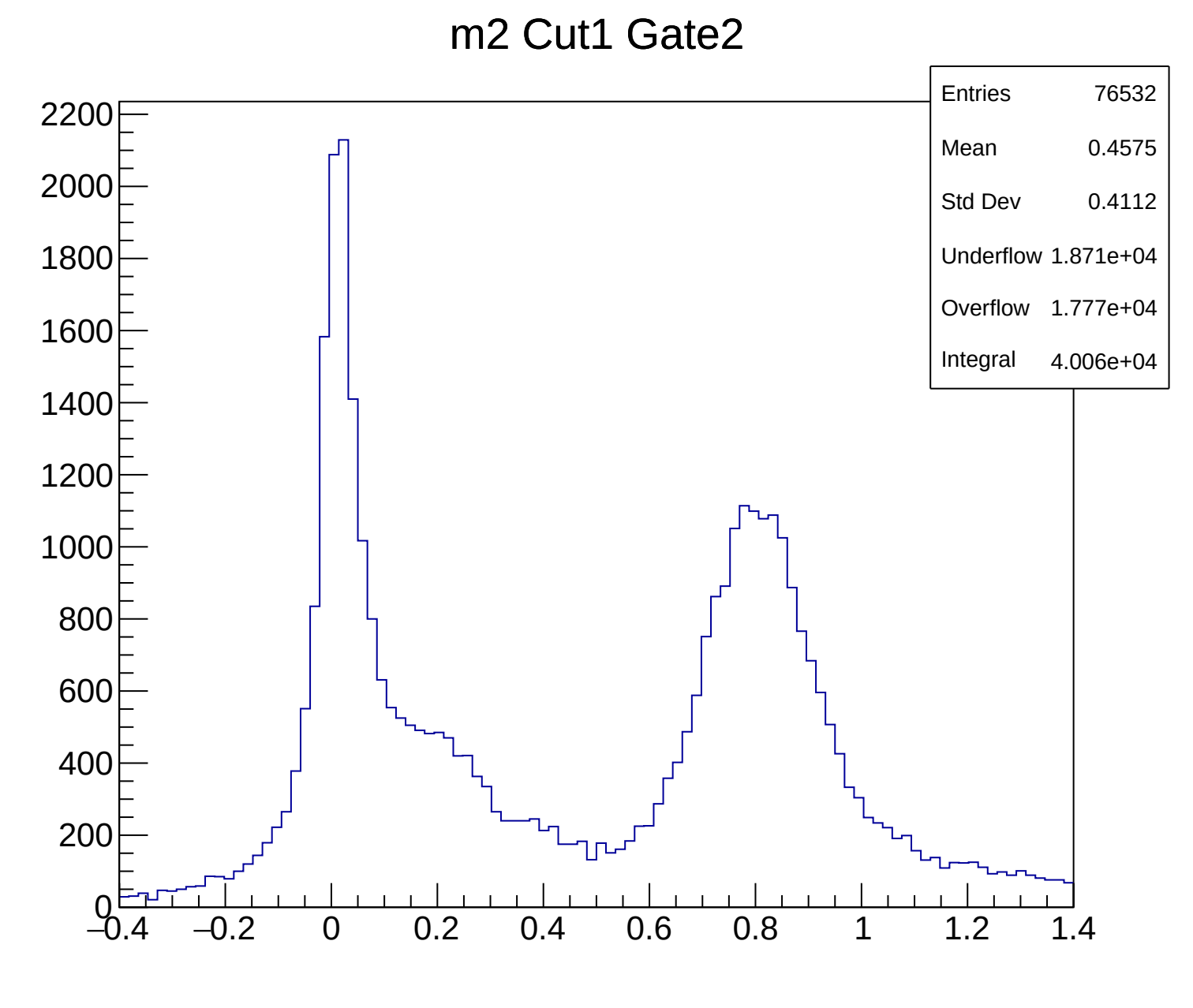

pKurama Cut1 Gate1
Entries 37648
Mean 0.8403
Std Dev 0.2663
Underflow 0
Overflow 3724
Integral 3.392e+04
1000
800
600
400
200
0
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6

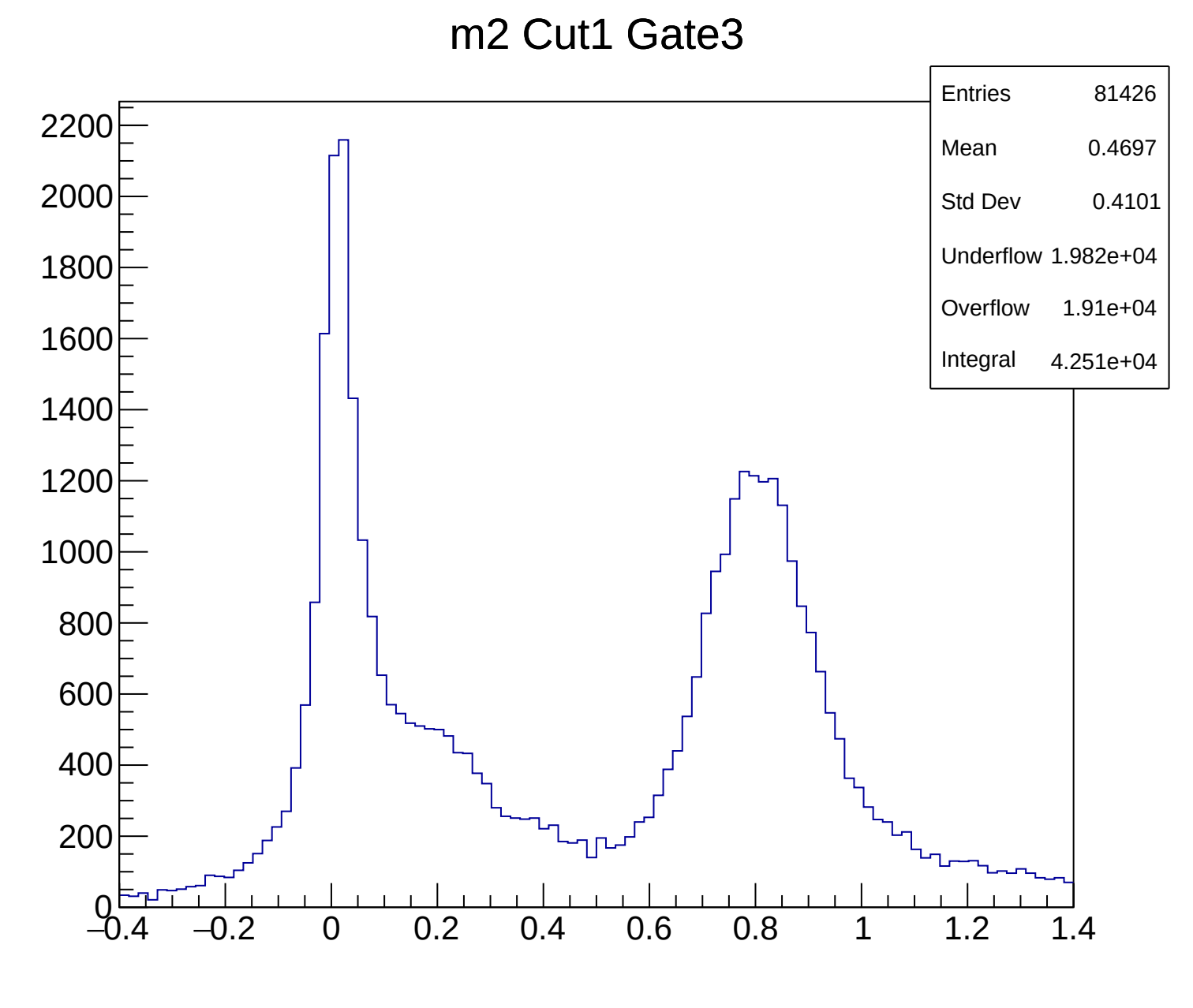

m2 Cut2
Entries 61480
Mean 0.6345
Std Dev 0.3484
Underflow 4972
Overflow 6574
Integral 4.993e+04
2500
2000
1500
1000
500
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4

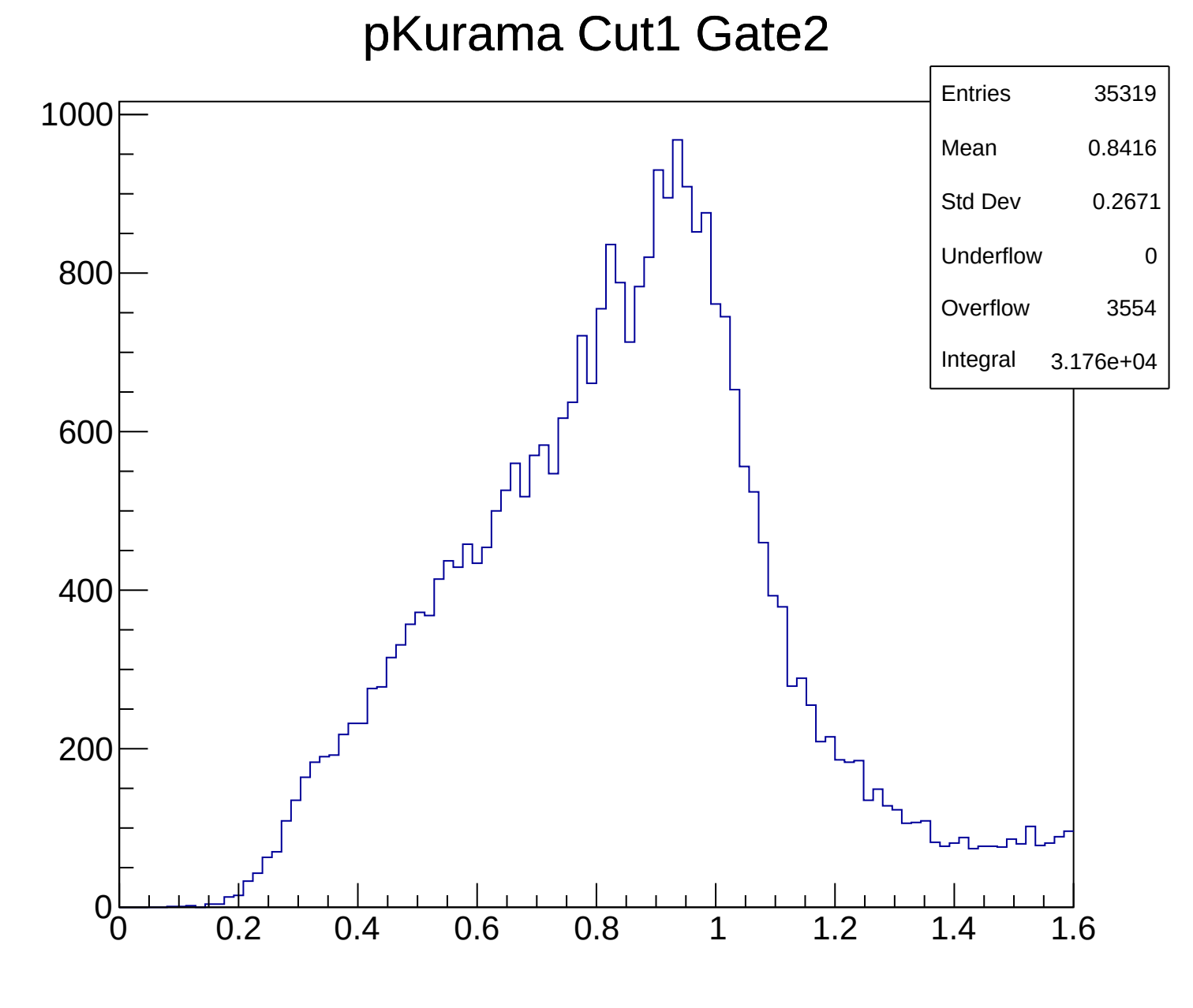

pKurama Cut2
Entries 61480
Mean 0.8415
Std Dev 0.2261
Underflow 5925
Overflow 2822
Integral 5.273e+04
1800
1600
1400
1200
1000
800
600
400
200
0
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6


m2 Cut3 Gate1
Entries 29957
Mean 0.5309
Std Dev 0.3919
Underflow 2626
Overflow 3823
Integral 2.351e+04
1200
1000
800
600
400
200
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4


pKurama Cut3 Gate1
Entries 29957
Mean 0.8467
Std Dev 0.2534
Underflow 0
Overflow 2094
Integral 2.786e+04
900
800
700
600
500
400
300
200
100
0
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6


m2 Cut1 Gate2
Entries 76532
Mean 0.4575
Std Dev 0.4112
Underflow 1.871e+04
Overflow 1.777e+04
Integral 4.006e+04
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4


m2 Cut1 Gate3
Entries 81426
Mean 0.4697
Std Dev 0.4101
Underflow 1.982e+04
Overflow 1.91e+04
Integral 4.251e+04
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4


pKurama Cut1 Gate2
Entries 35319
Mean 0.8416
Std Dev 0.2671
Underflow 0
Overflow 3554
Integral 3.176e+04
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800
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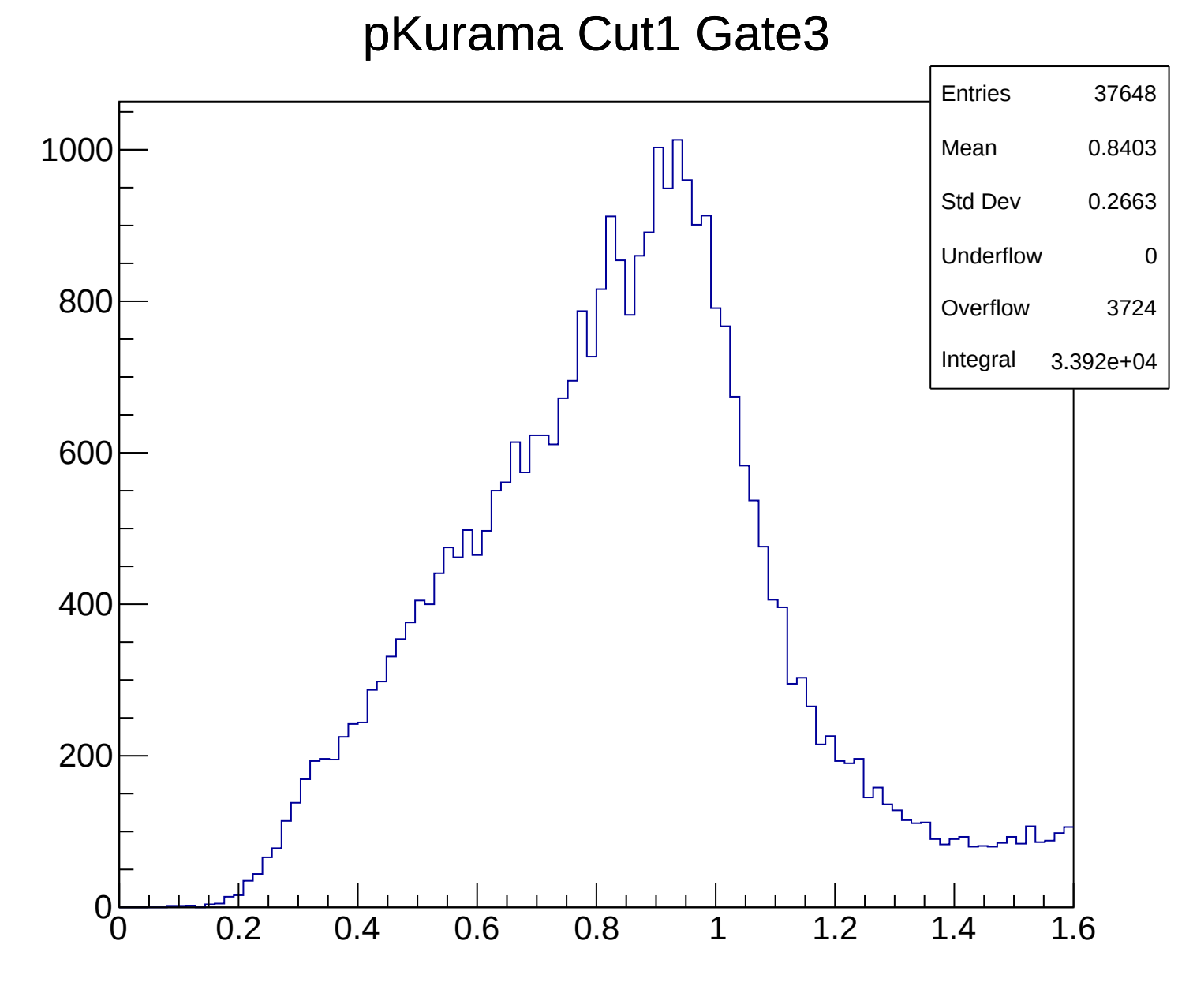
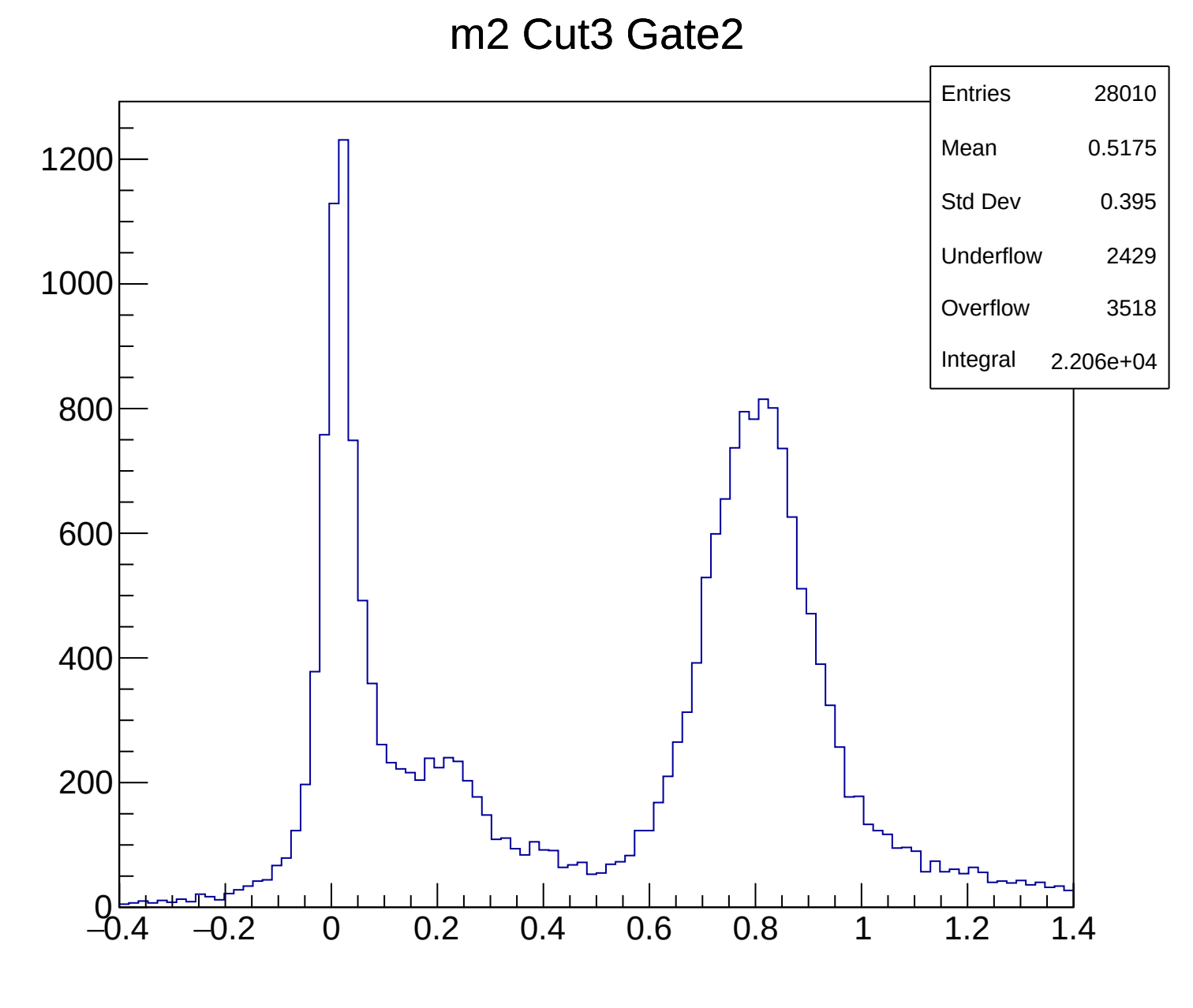
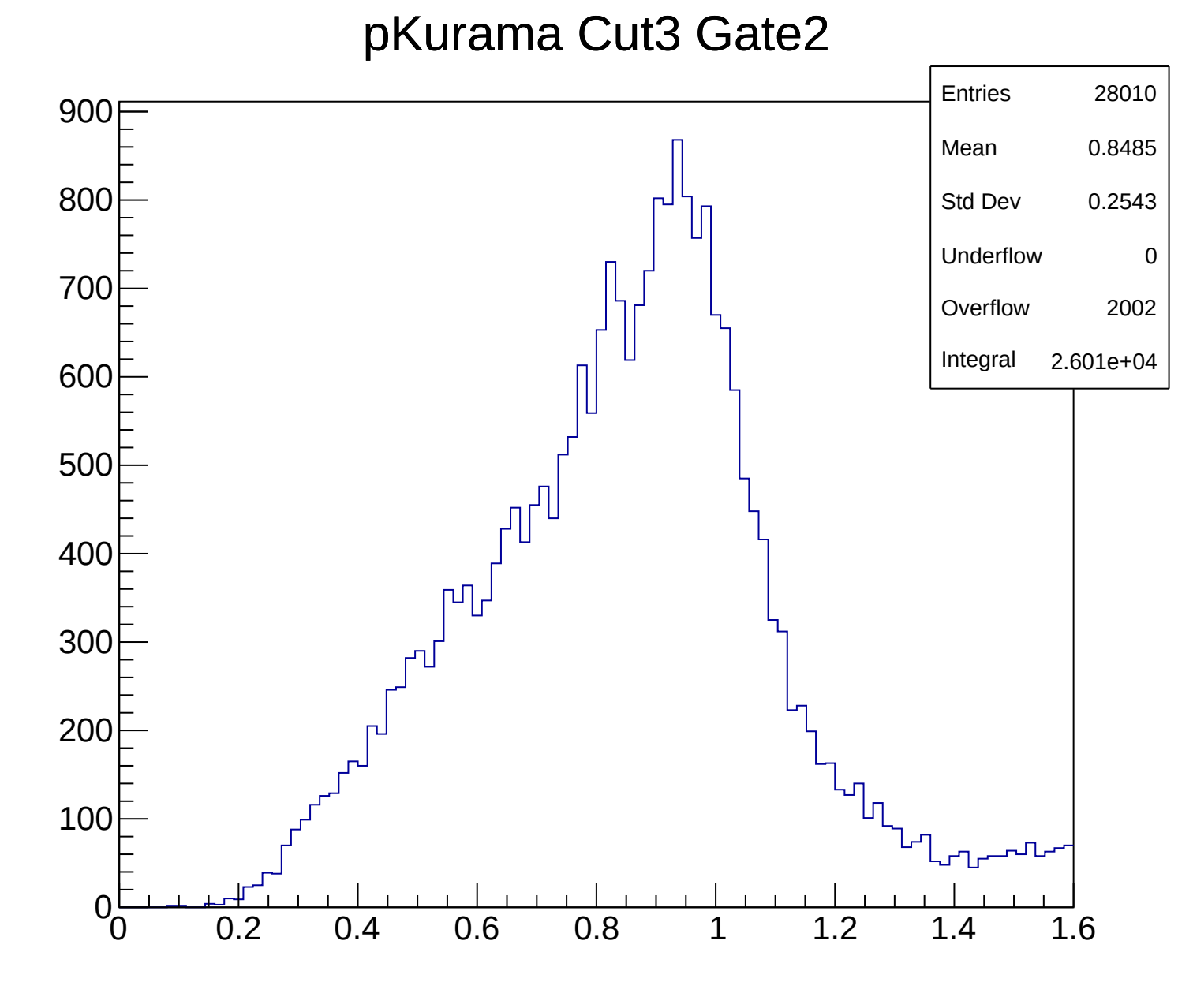
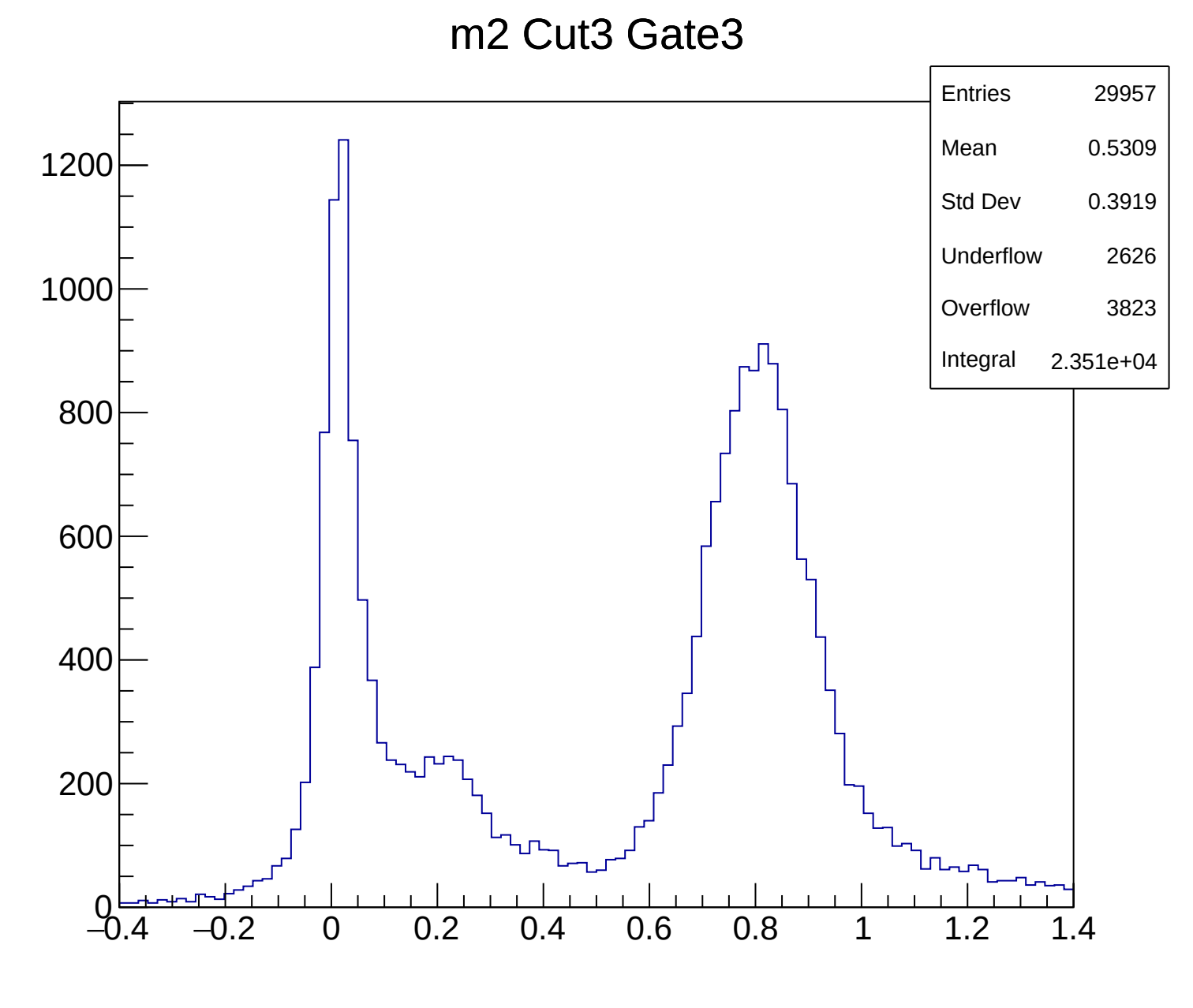
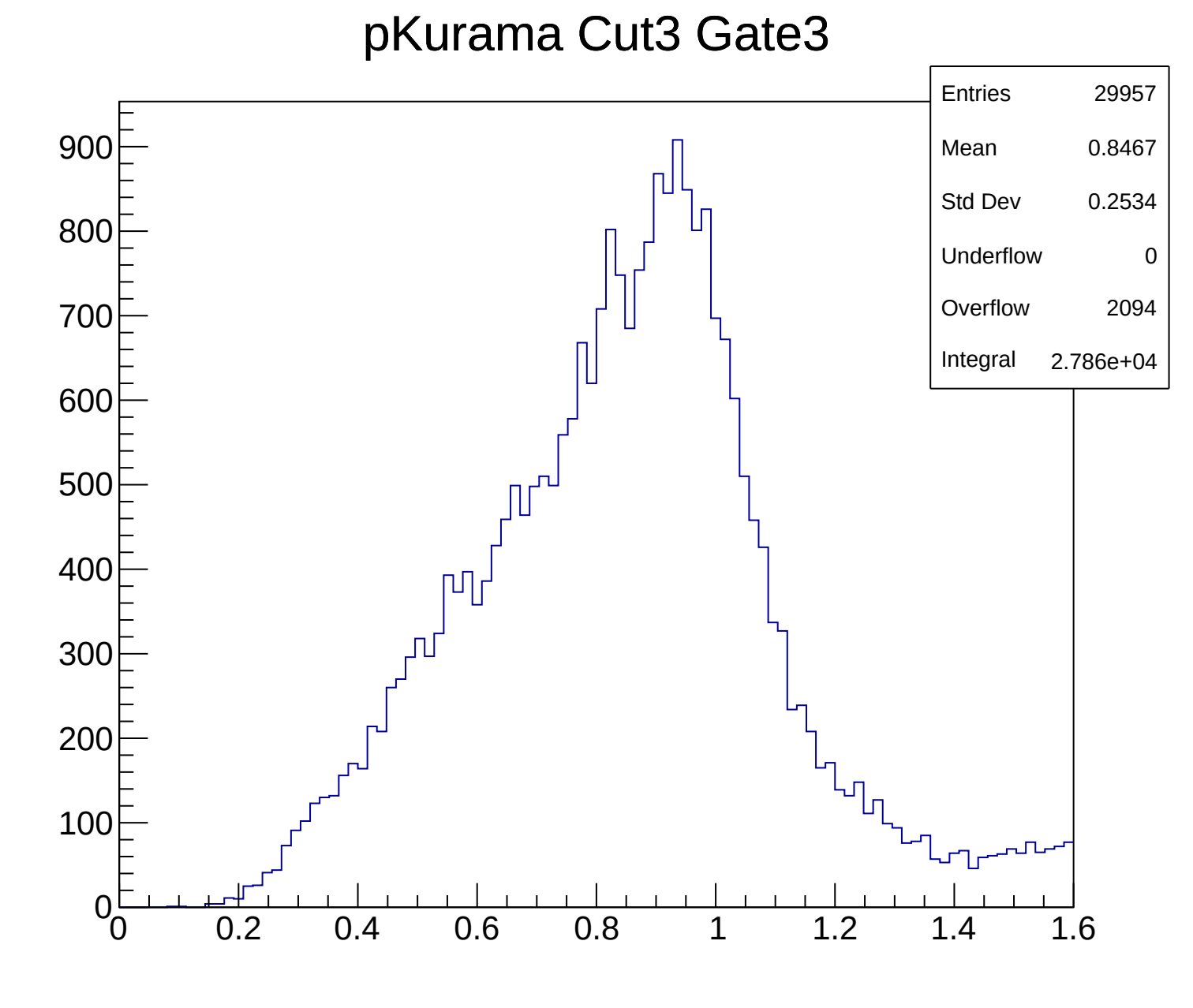
400
200
0
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6

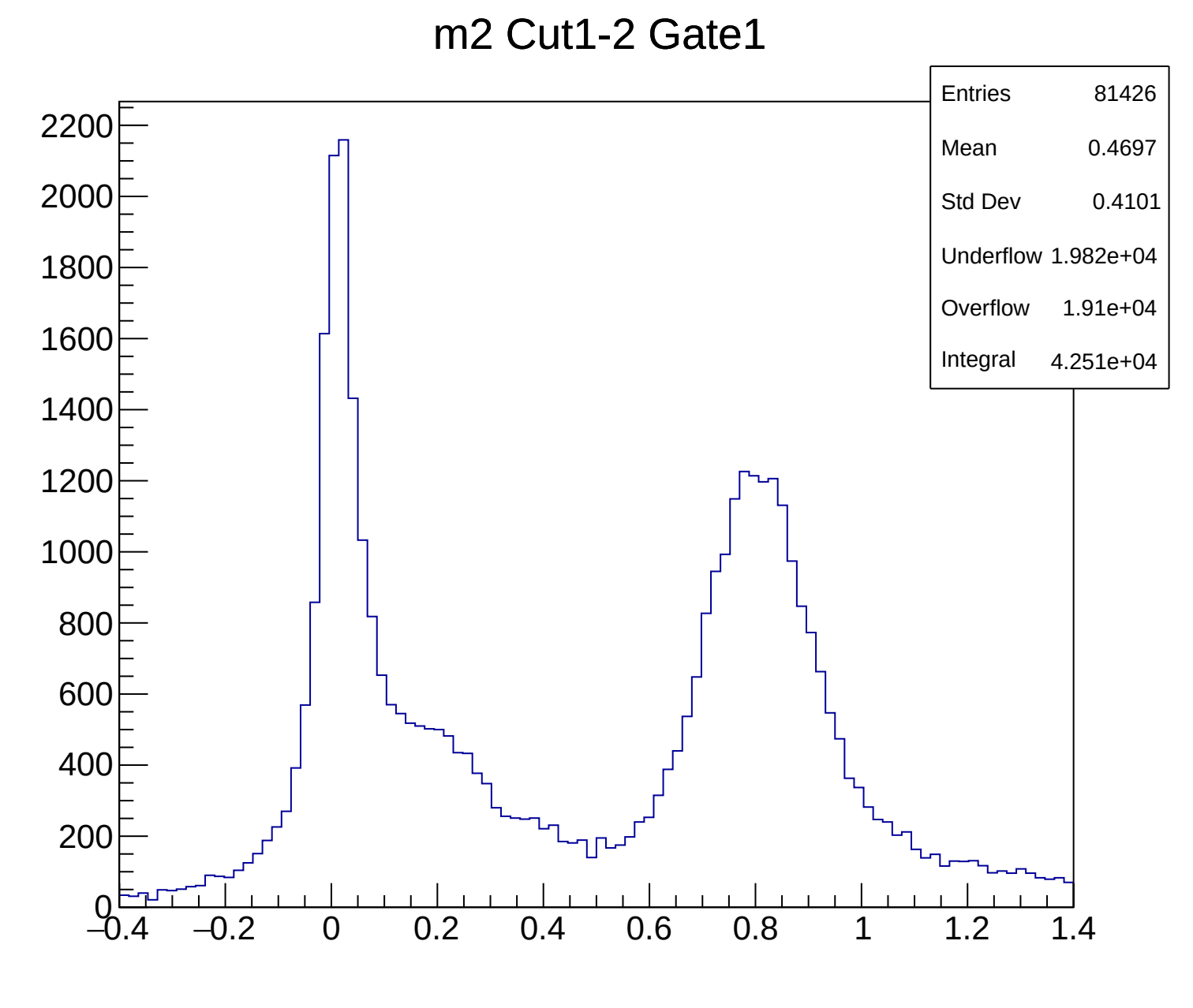

pKurama Cut1 Gate3
Entries 37648
Mean 0.8403
Std Dev 0.2663
Underflow 0
Overflow 3724
Integral 3.392e+04
1000
800
600
400
200
0
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6

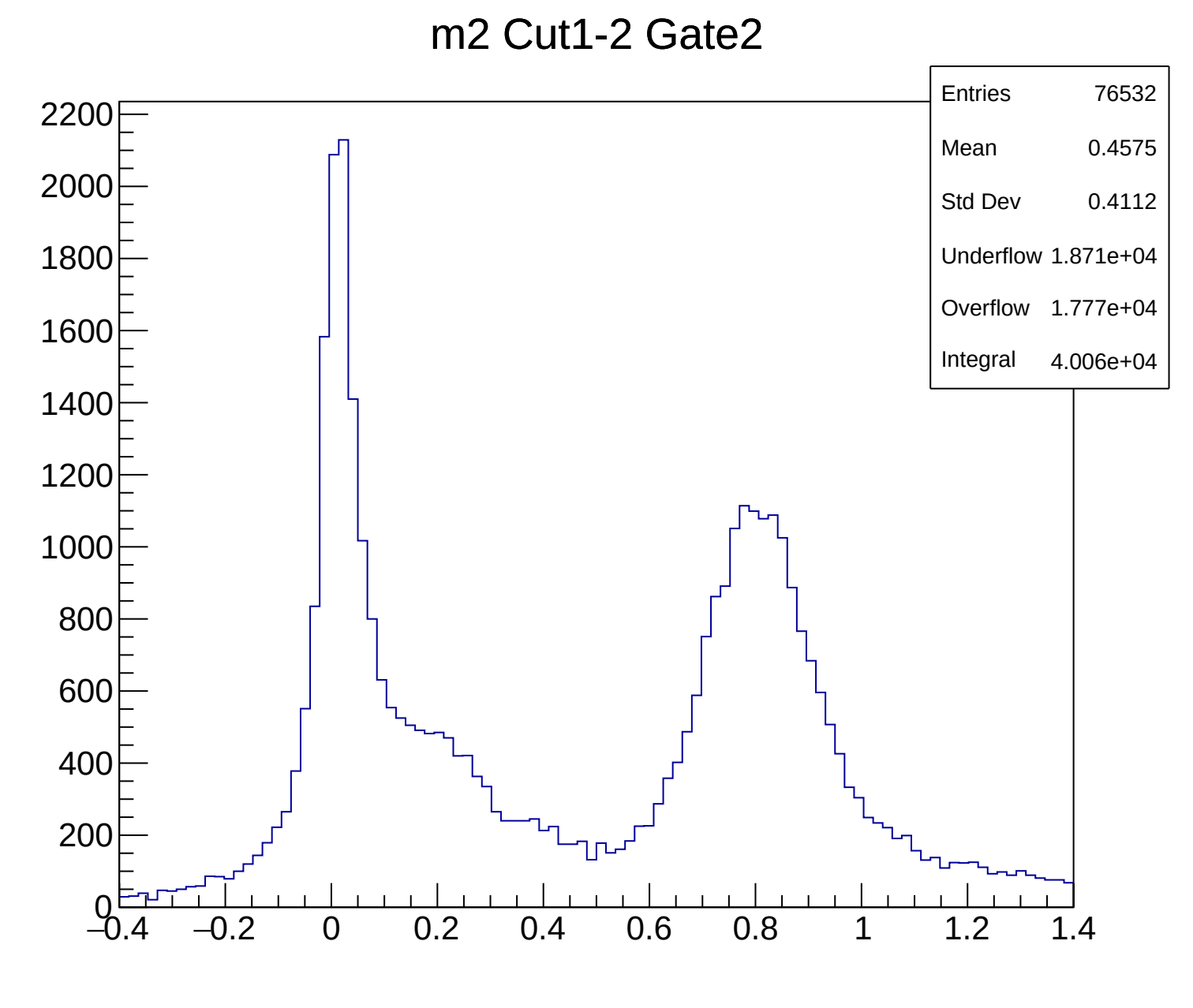

m2 Cut3 Gate2
Entries 28010
Mean 0.5175
Std Dev 0.395
Underflow 2429
Overflow 3518
Integral 2.206e+04
1200
1000
800
600
400
200
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4

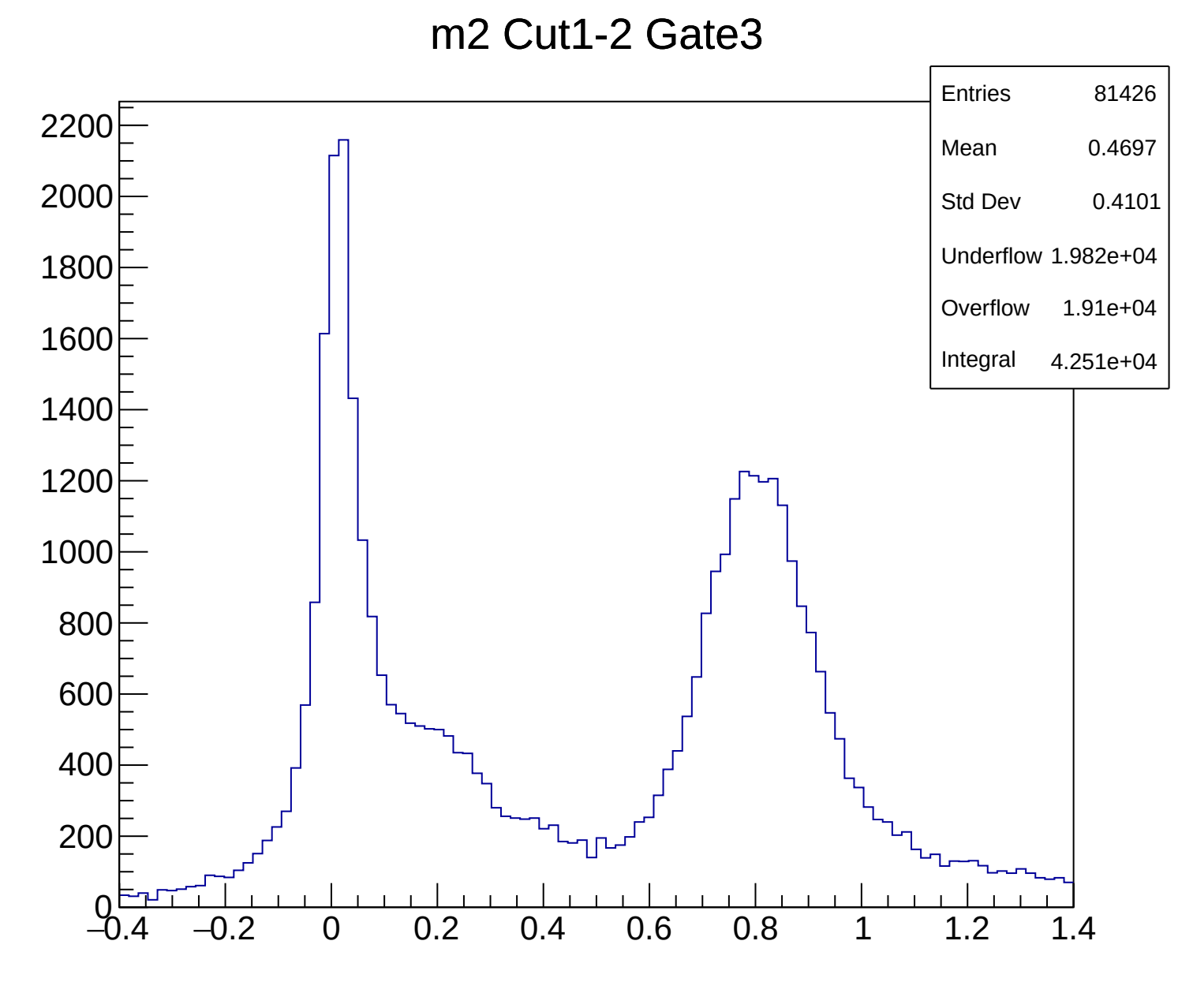

pKurama Cut3 Gate2
Entries 28010
Mean 0.8485
Std Dev 0.2543
Underflow 0
Overflow 2002
Integral 2.601e+04
900
800
700
600
500
400
300
200
100
0
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6

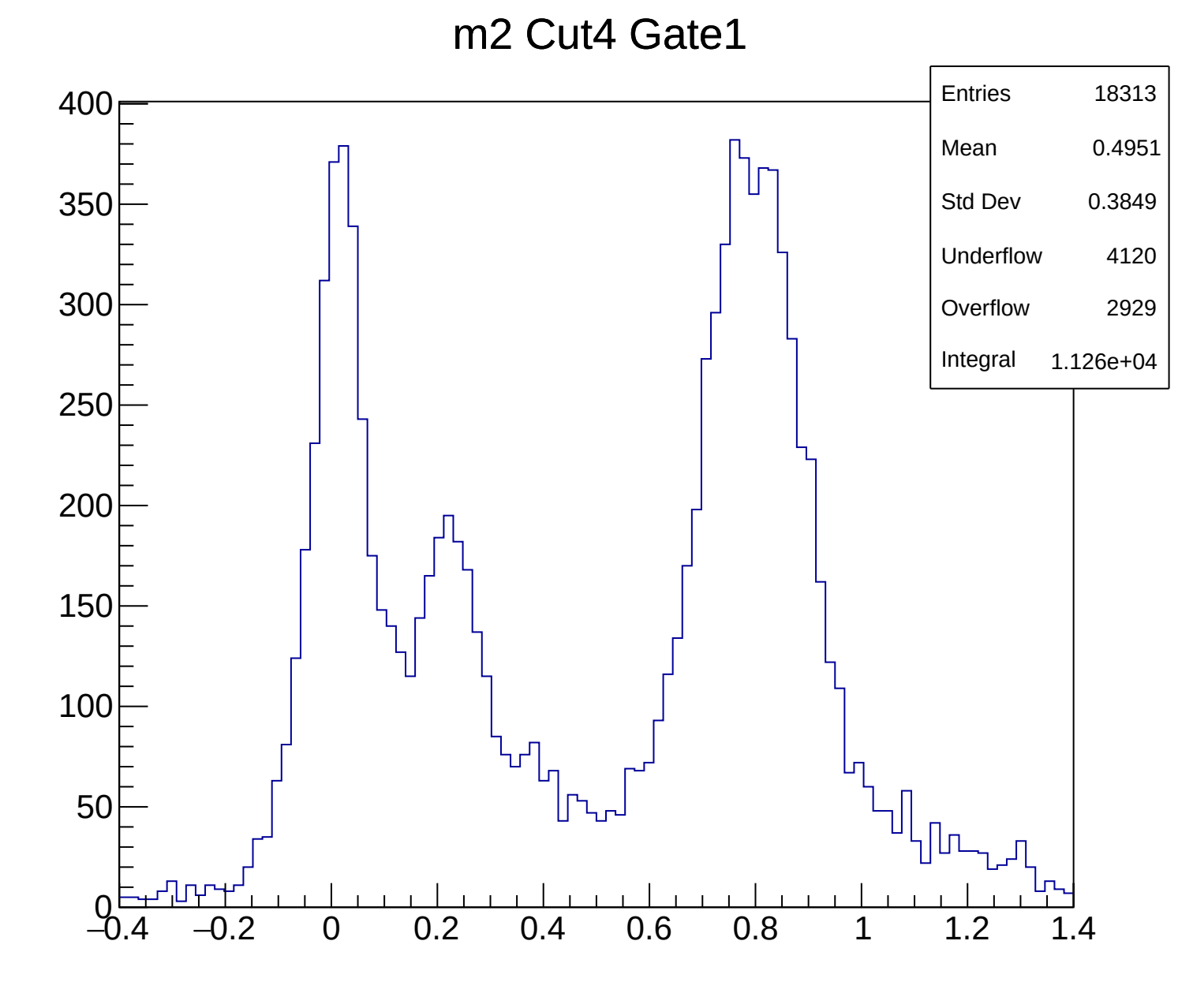

m2 Cut3 Gate3
Entries 29957
Mean 0.5309
Std Dev 0.3919
Underflow 2626
Overflow 3823
Integral 2.351e+04
1200
1000
800
600
400
200
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4

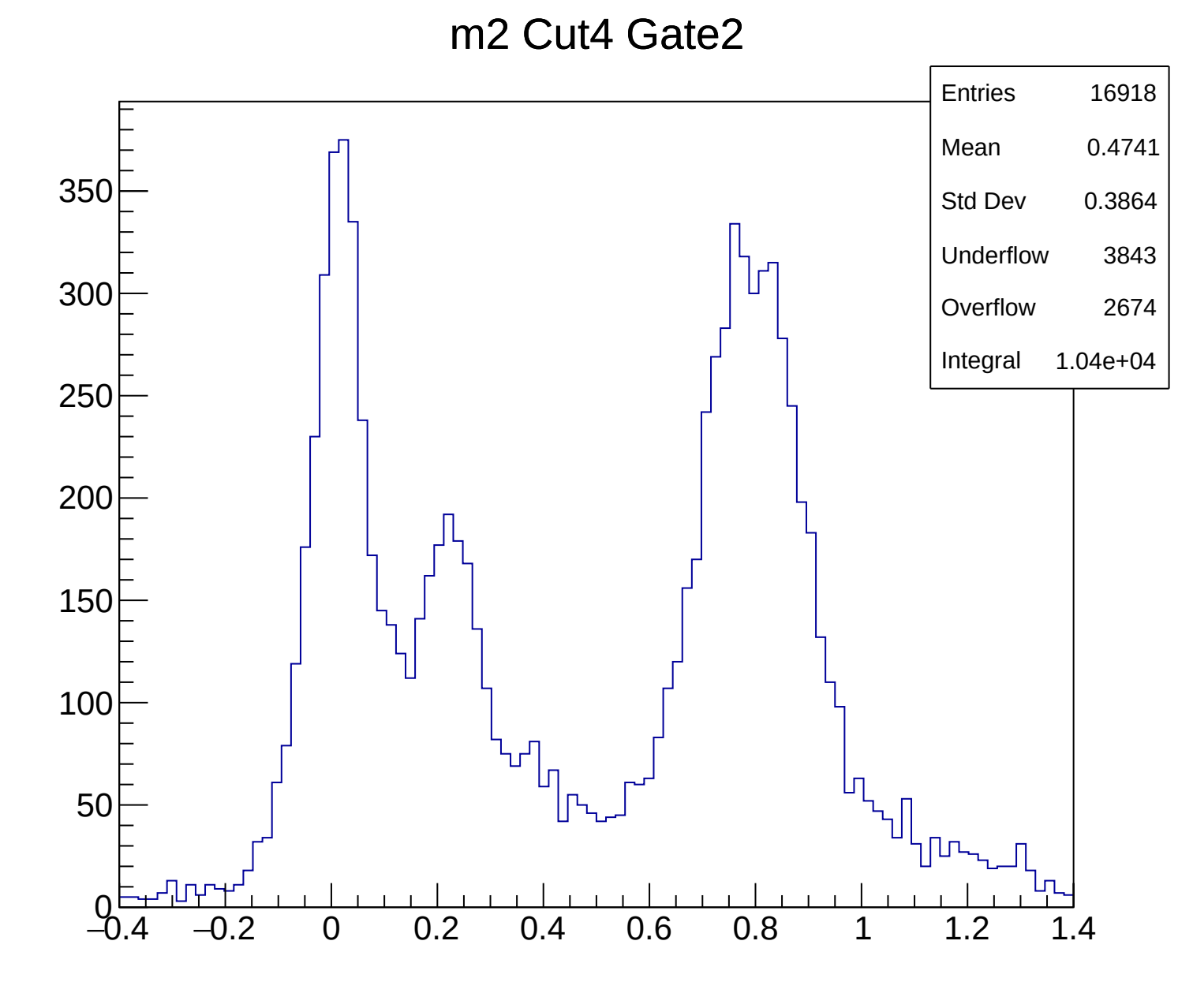

pKurama Cut3 Gate3
Entries 29957
Mean 0.8467
Std Dev 0.2534
Underflow 0
Overflow 2094
Integral 2.786e+04
900
800
700
600
500
400
300
200
100
0
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6

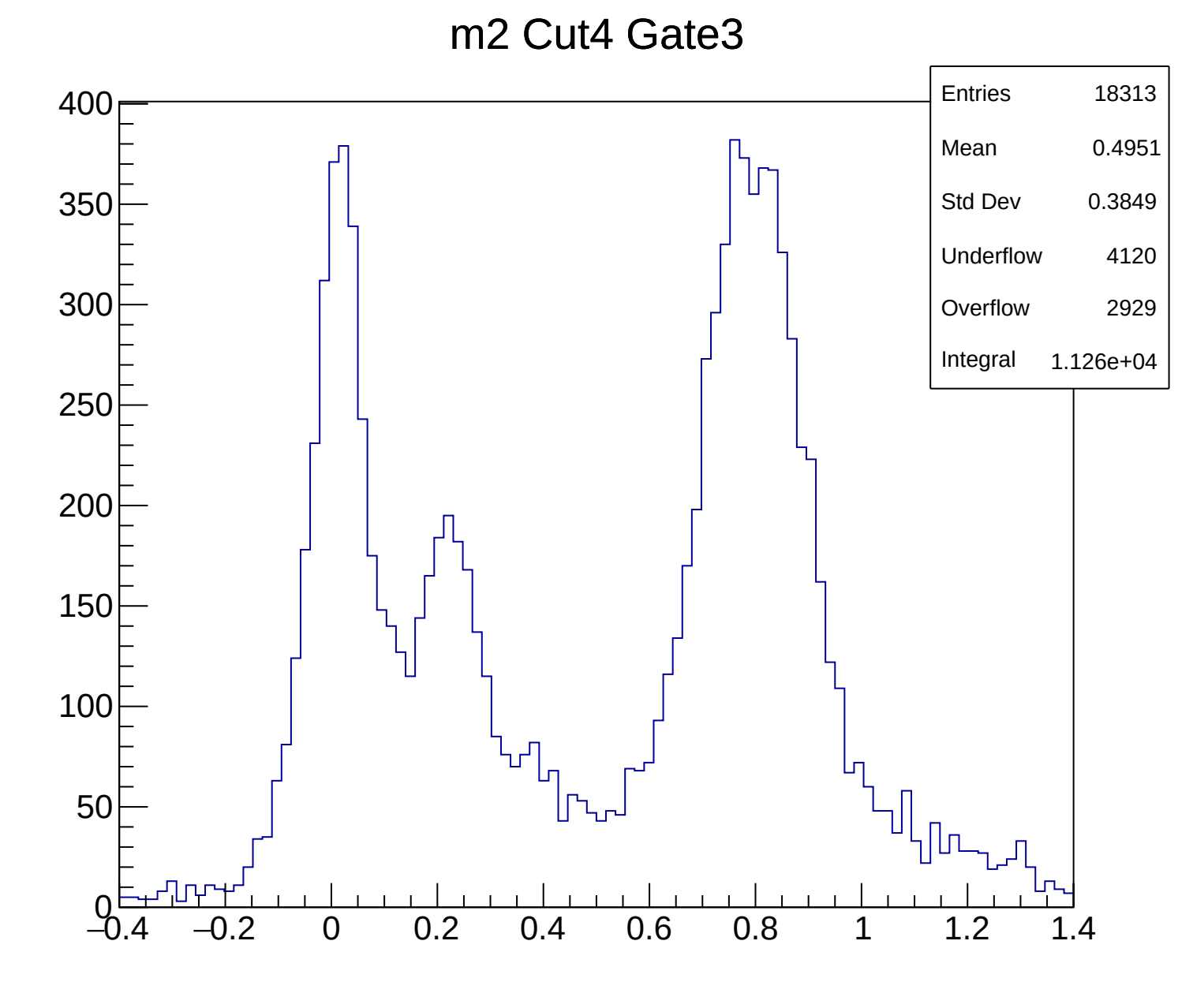

m2 Cut1-2 Gate1
Entries 81426
Mean 0.4697
Std Dev 0.4101
Underflow 1.982e+04
Overflow 1.91e+04
Integral 4.251e+04
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4

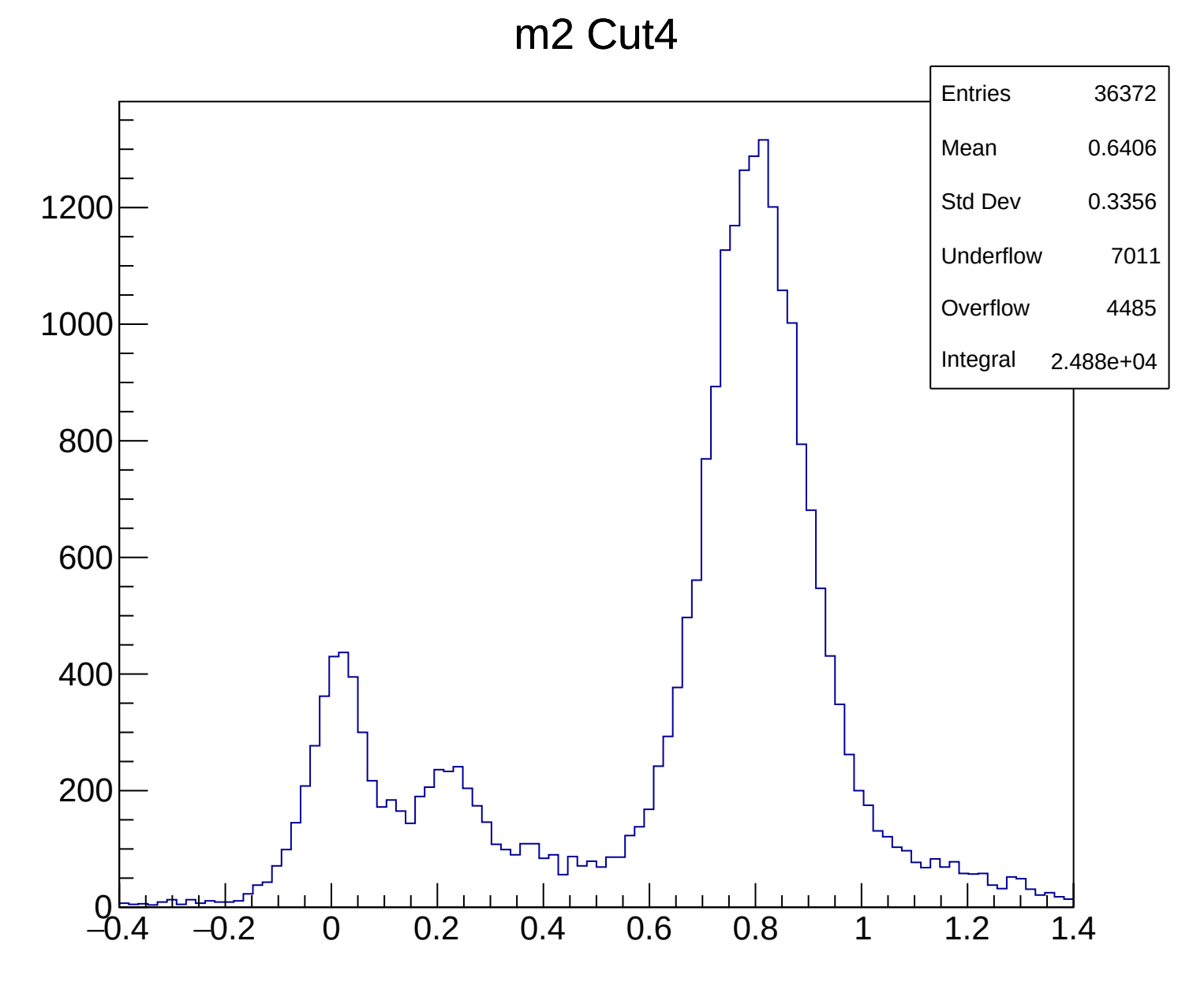

m2 Cut1-2 Gate2
Entries 76532
Mean 0.4575
Std Dev 0.4112
Underflow 1.871e+04
Overflow 1.777e+04
Integral 4.006e+04
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4

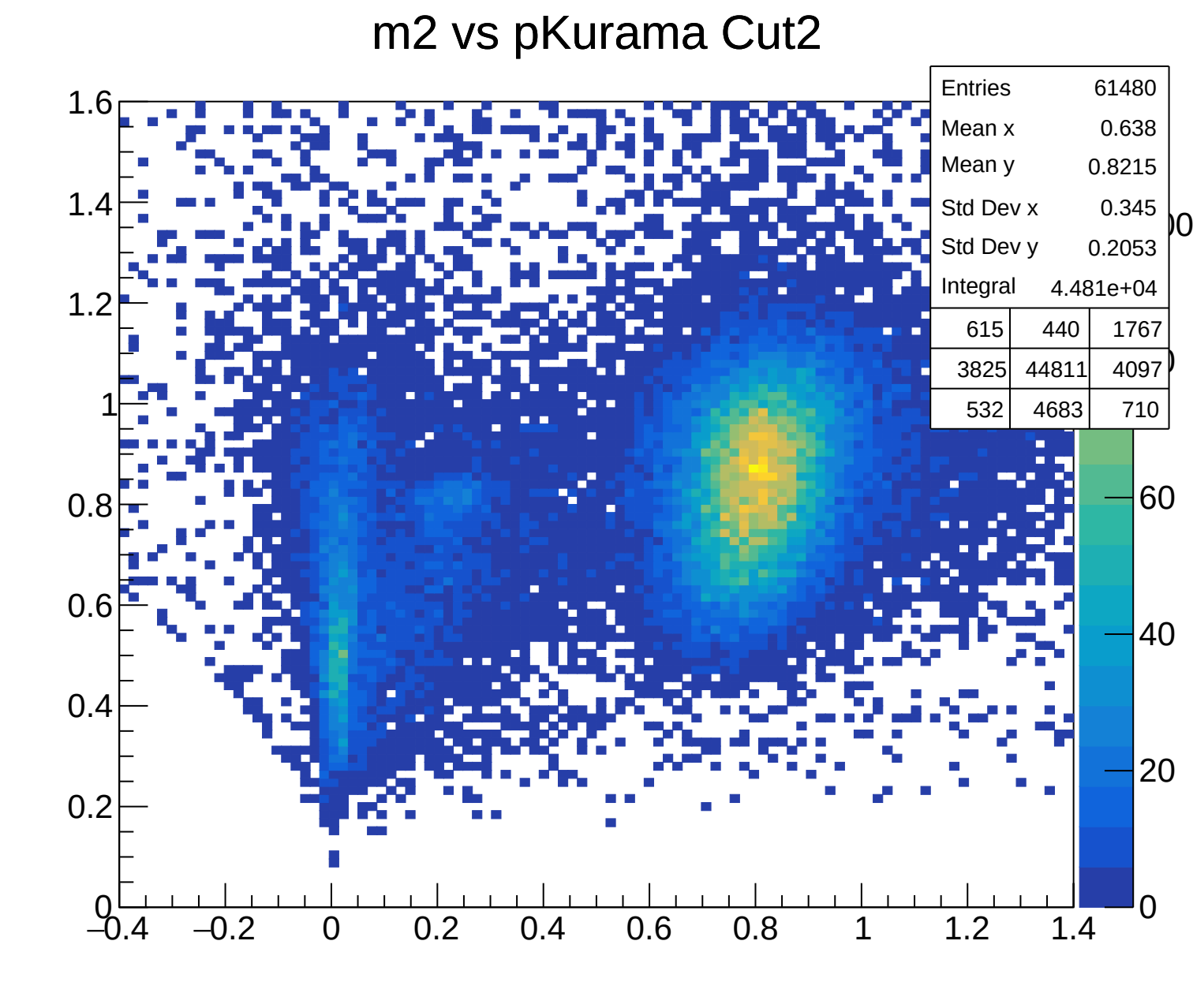

m2 Cut1-2 Gate3
Entries 81426
Mean 0.4697
Std Dev 0.4101
Underflow 1.982e+04
Overflow 1.91e+04
Integral 4.251e+04
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4

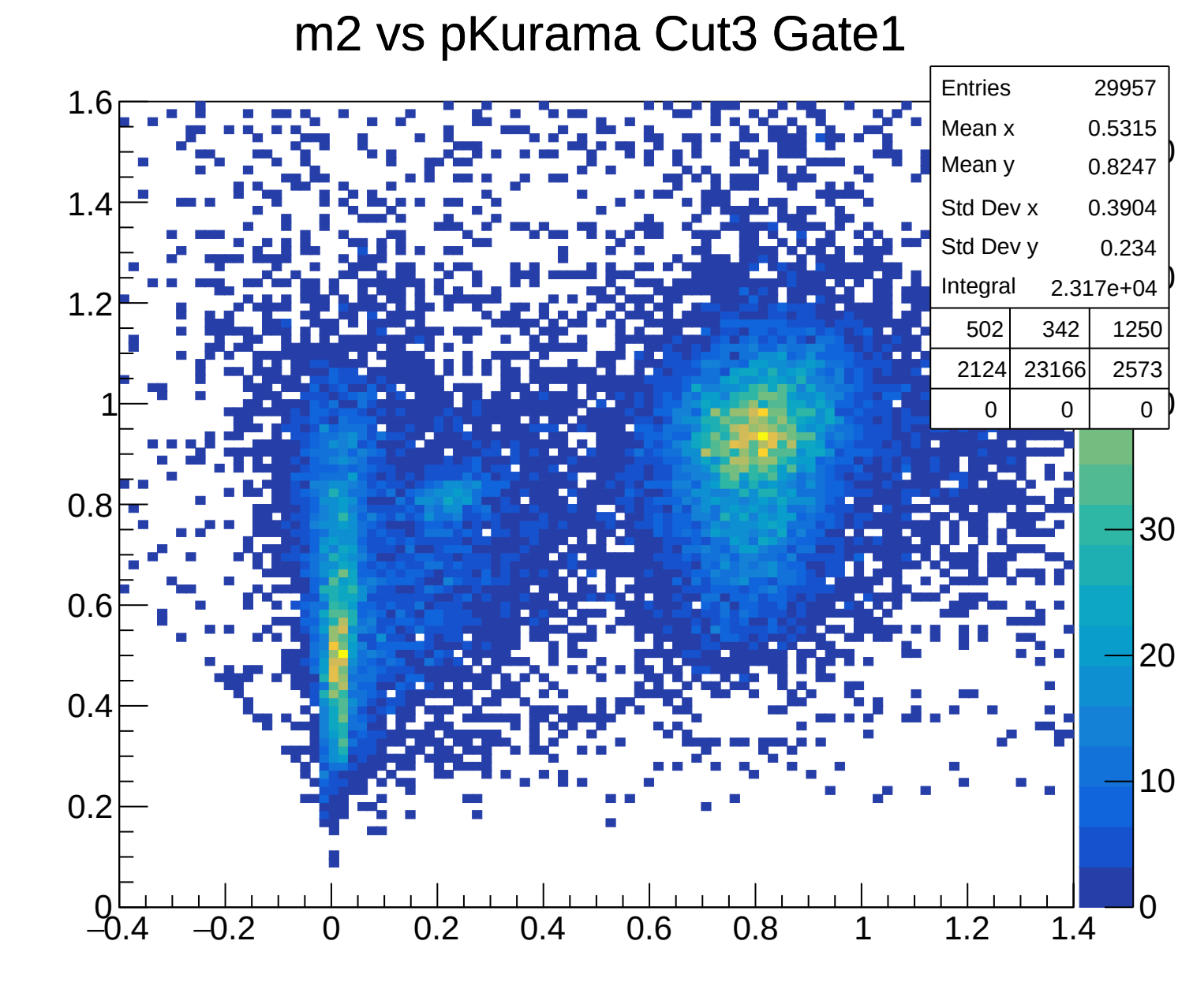

m2 Cut4 Gate1
Entries 18313
Mean 0.4951
Std Dev 0.3849
Underflow 4120
Overflow 2929
Integral 1.126e+04
400
350
300
250
200
150
100
50
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4

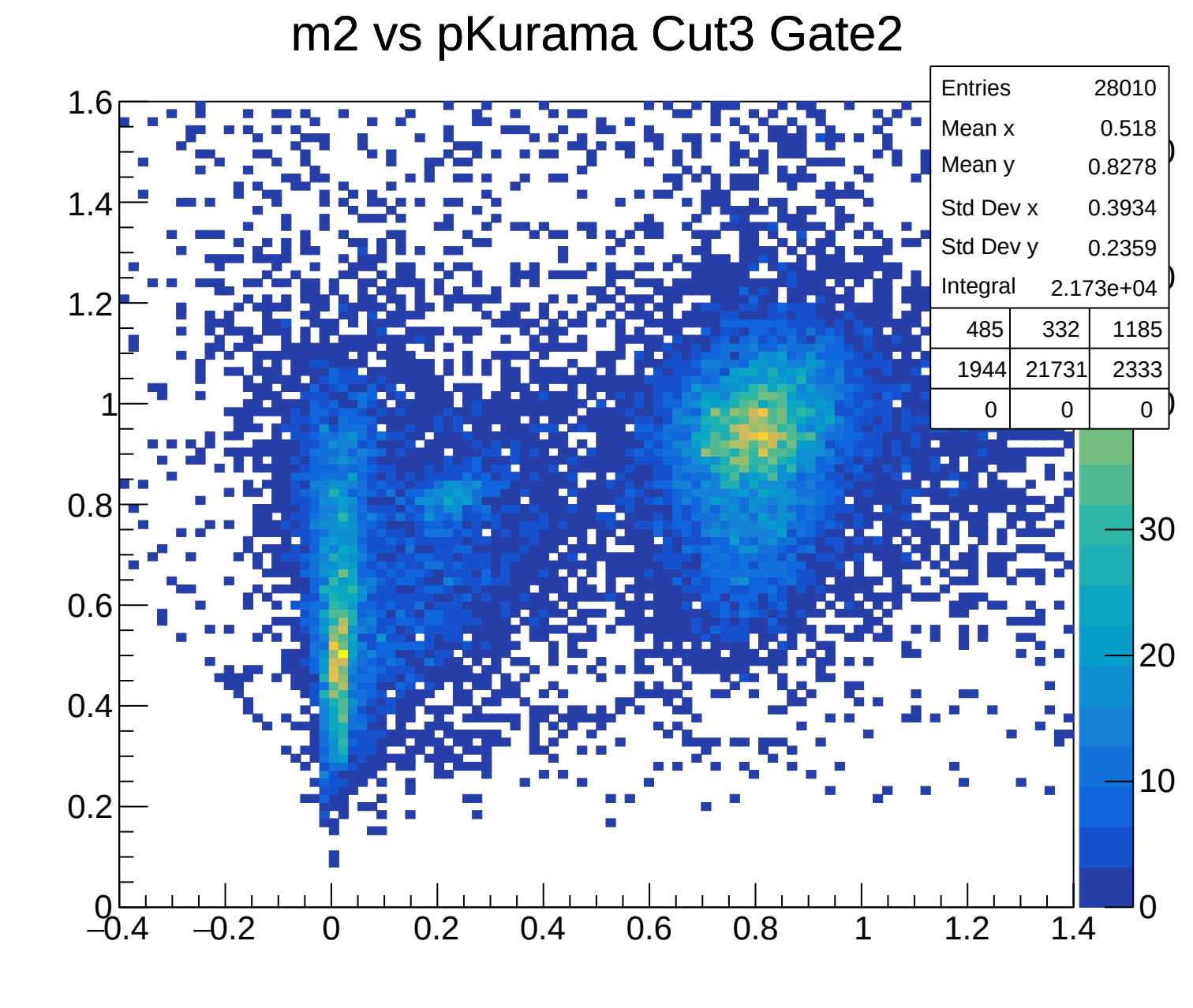

m2 Cut4 Gate2
Entries 16918
Mean 0.4741
Std Dev 0.3864
Underflow 3843
Overflow 2674
Integral 1.04e+04
350
300
250
200
150
100
50
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4

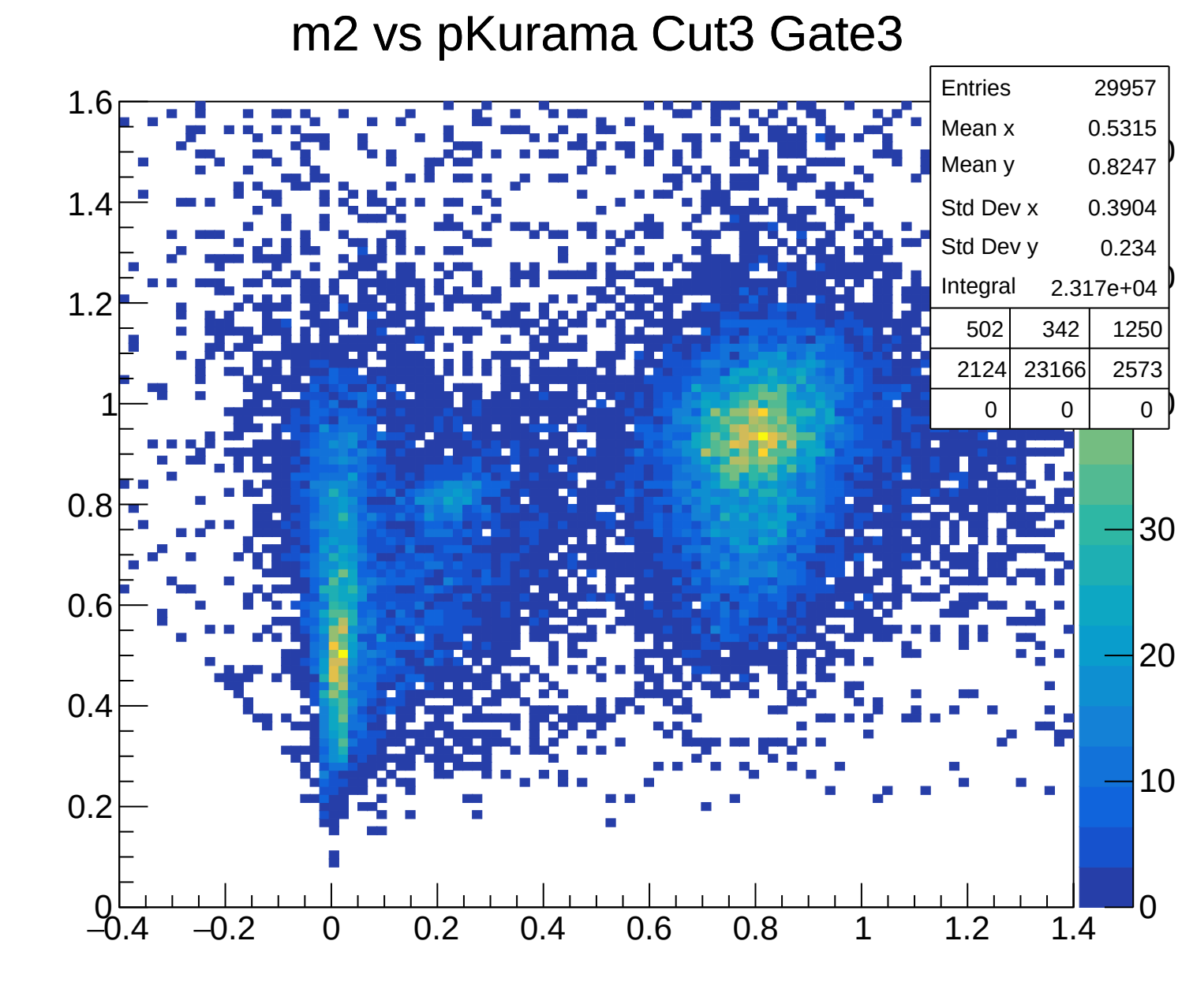

m2 Cut4 Gate3
Entries 18313
Mean 0.4951
Std Dev 0.3849
Underflow 4120
Overflow 2929
Integral 1.126e+04
400
350
300
250
200
150
100
50
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4

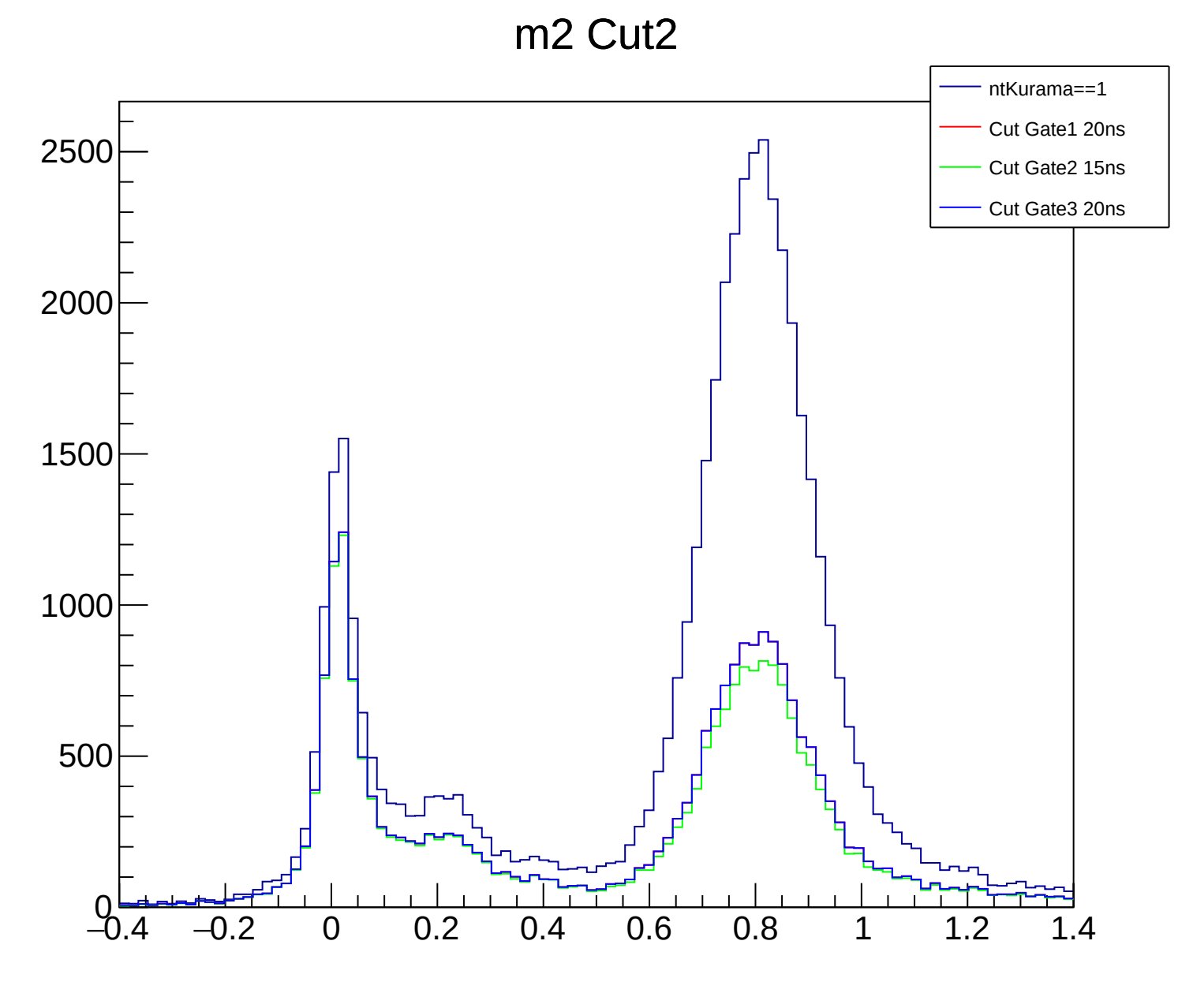

m2 Cut4
Entries 36372
Mean 0.6406
Std Dev 0.3356
Underflow 7011
Overflow 4485
Integral 2.488e+04
1200
1000
800
600
400
200
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4

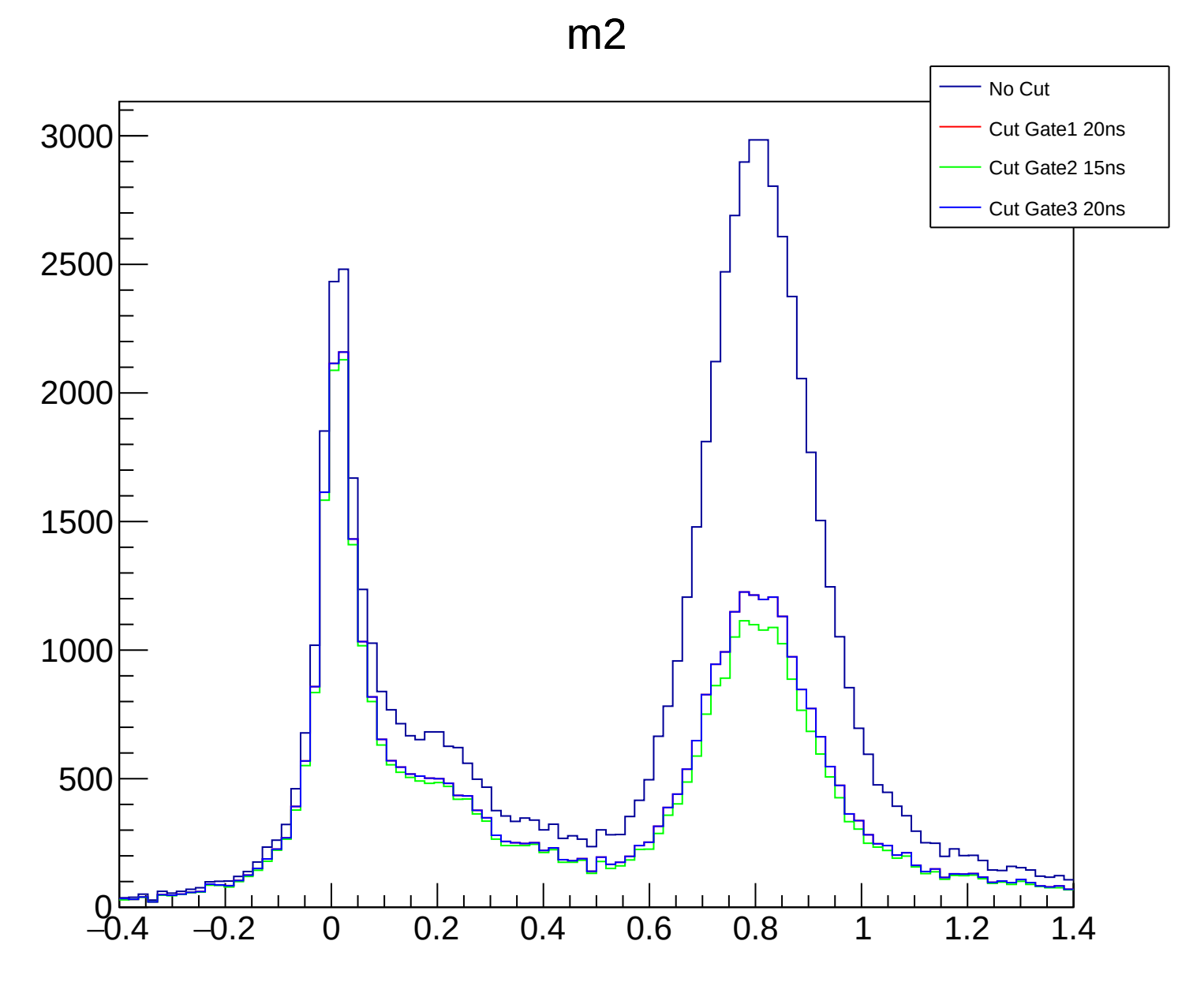

m2 vs pKurama Cut2
Entries 61480
Mean x 0.638
Mean y 0.8215
Std Dev x 0.345
Std Dev y 0.2053
Integral 4.481e+04
615 440 1767
3825 44811 4097
532 4683 710
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4
60
40
20
0

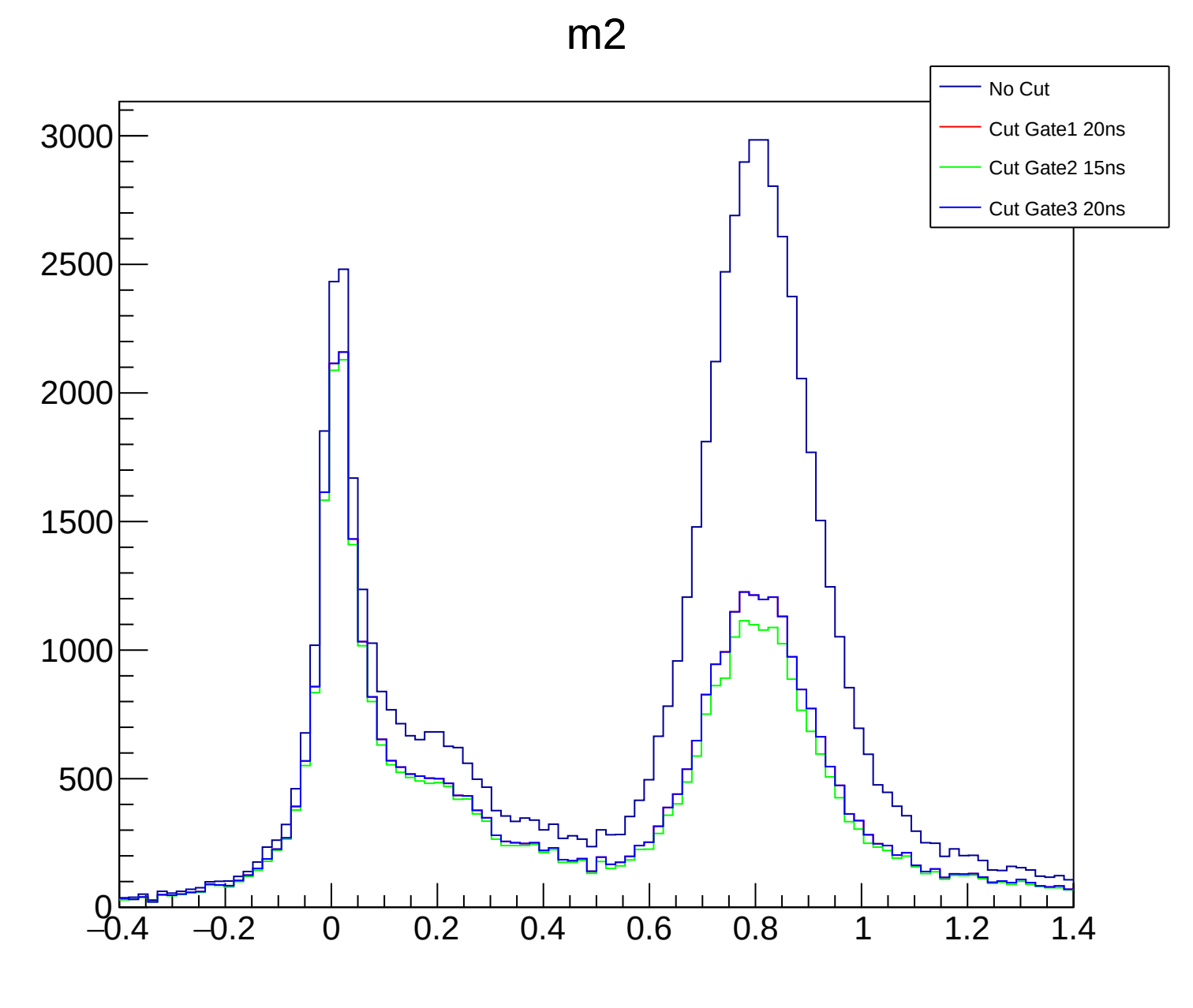

m2 vs pKurama Cut3 Gate1
Entries 29957
Mean x 0.5315
Mean y 0.8247
Std Dev x 0.3904
Std Dev y 0.234
Integral 2.317e+04
502 342 1250
2124 23166 2573
0 0 0
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4
30
20
10
0

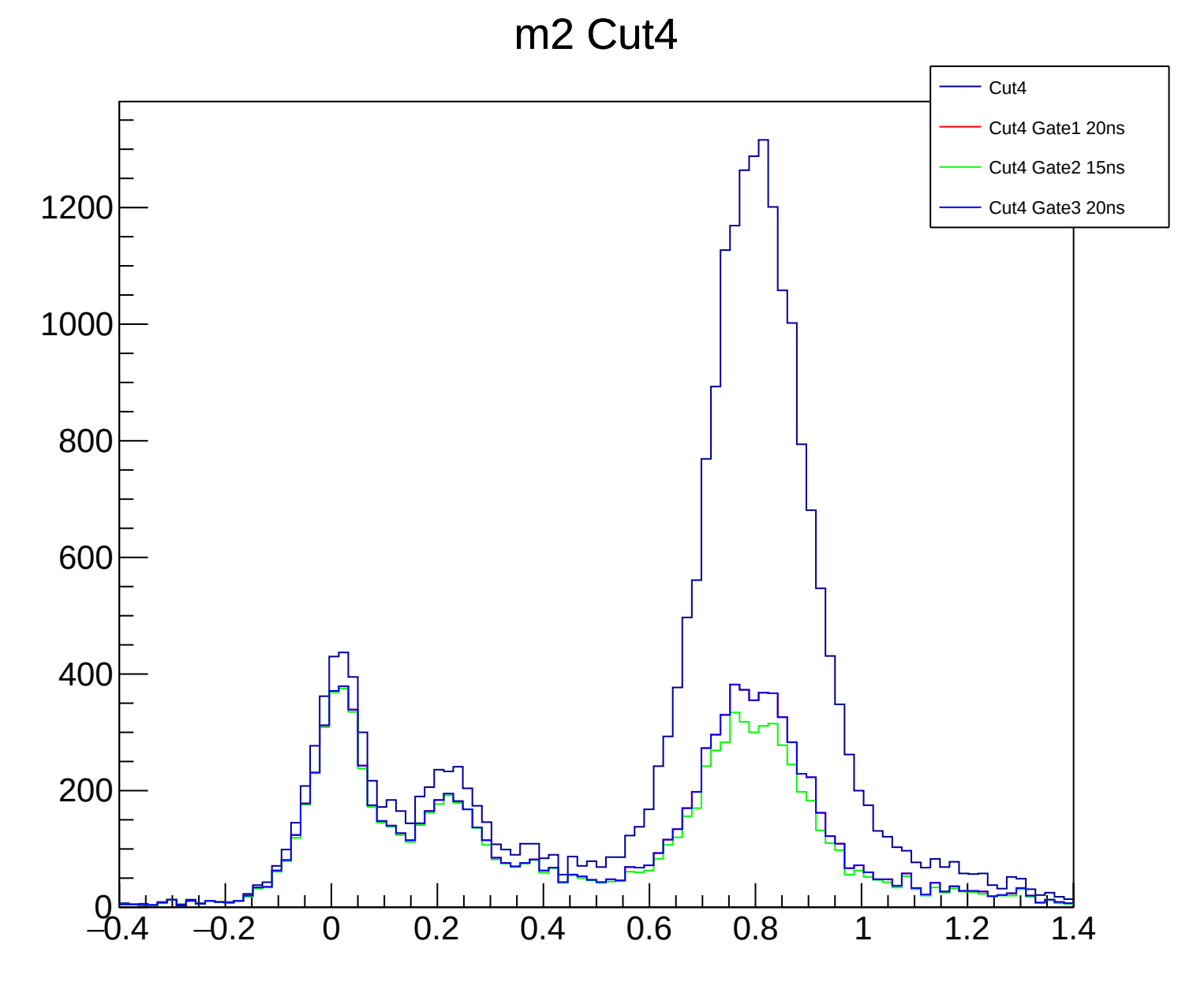

m2 vs pKurama Cut3 Gate2
Entries 28010
Mean x 0.518
Mean y 0.8278
Std Dev x 0.3934
Std Dev y 0.2359
Integral 2.173e+04
485 332 1185
1944 21731 2333
0 0 0
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4
30
20
10
0

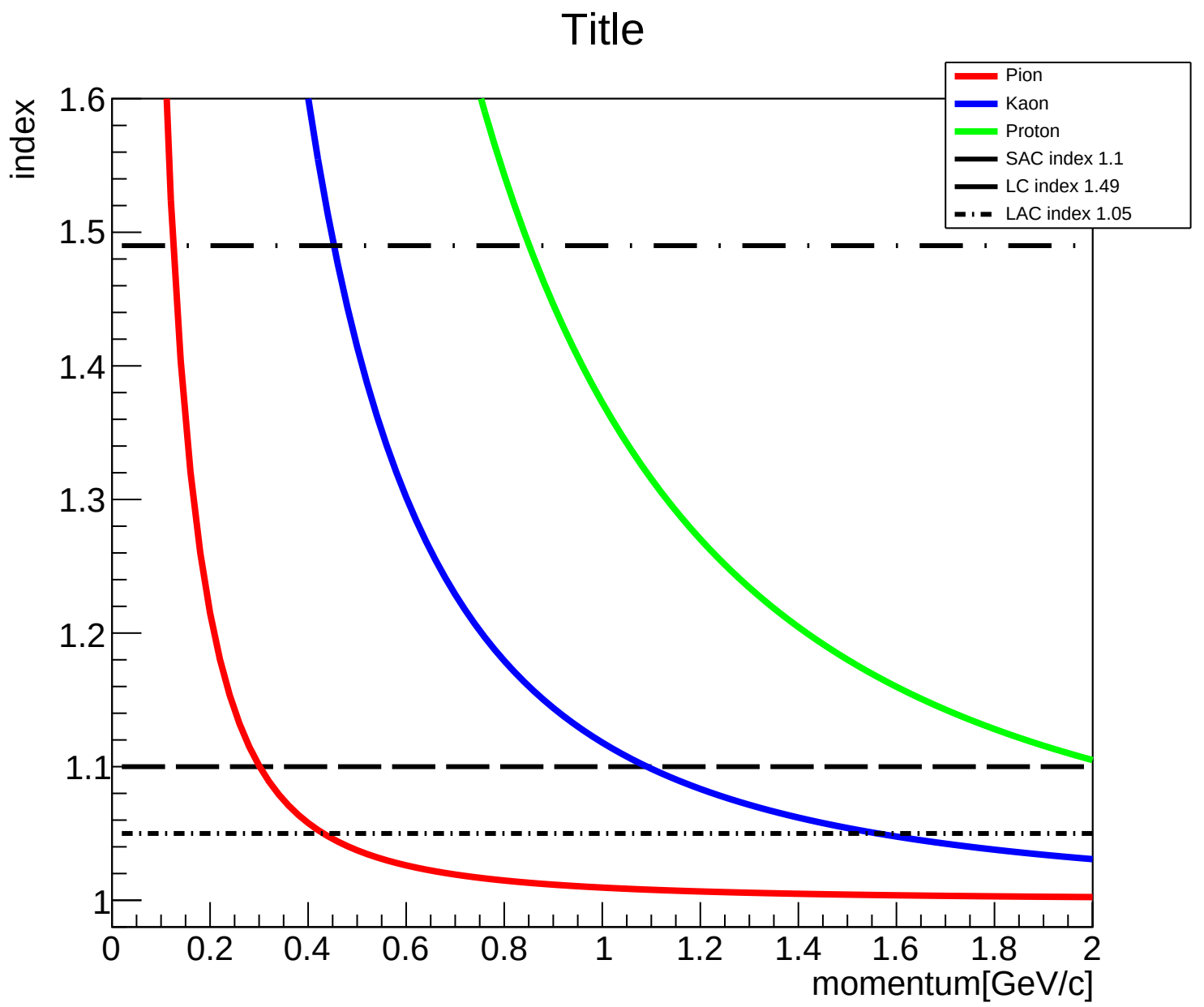

m2 vs pKurama Cut3 Gate3
Entries 29957
Mean x 0.5315
Mean y 0.8247
Std Dev x 0.3904
Std Dev y 0.234
Integral 2.317e+04
502 342 1250
2124 23166 2573
0 0 0
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4
30
20
10
0

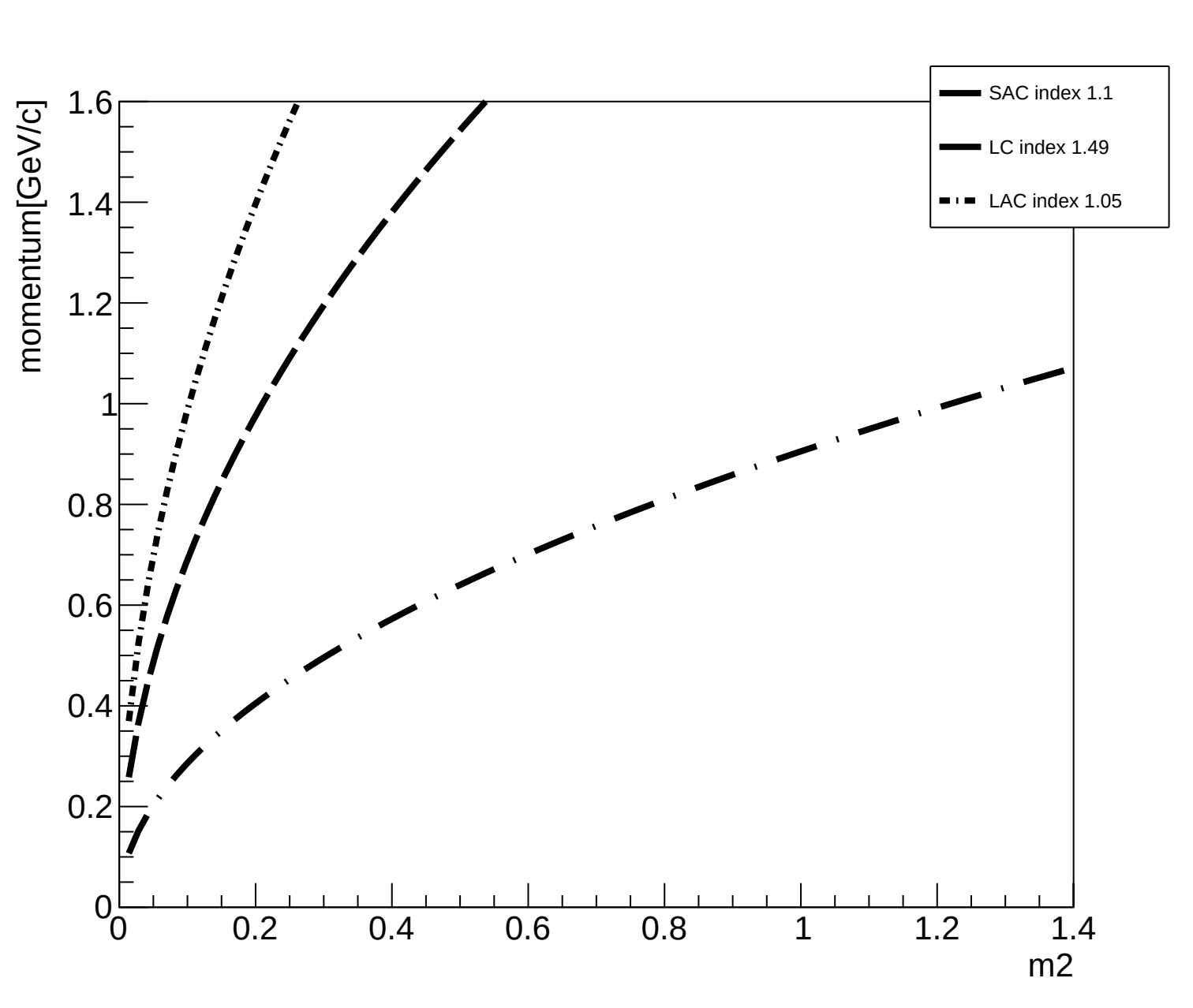

m2 Cut2
ntKurama==1
Cut Gate1 20ns
Cut Gate2 15ns
Cut Gate3 20ns
2500
2000
1500
1000
500
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4

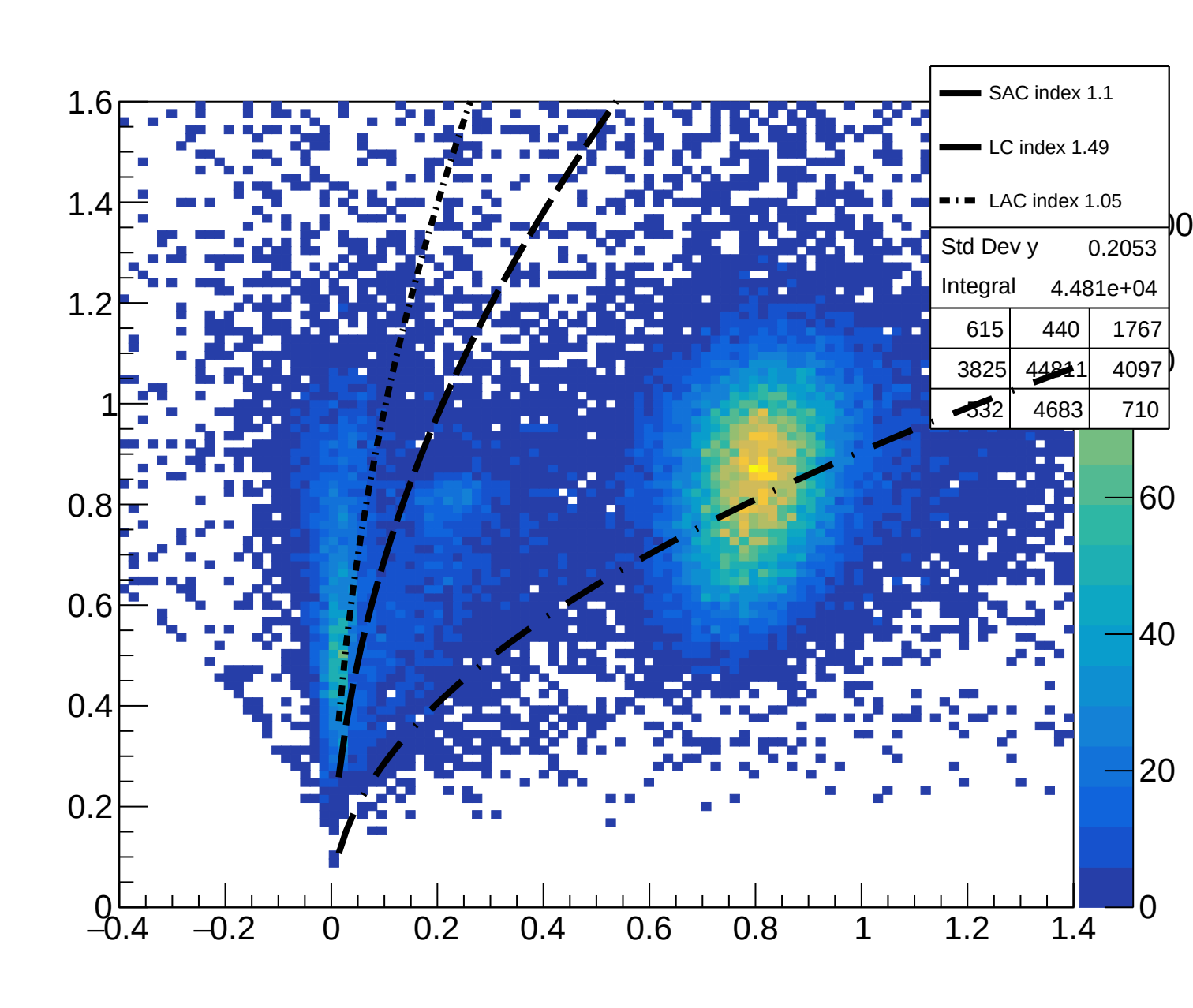

m2
No Cut
Cut Gate1 20ns
Cut Gate2 15ns
Cut Gate3 20ns
3000
2500
2000
1500
1000
500
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4

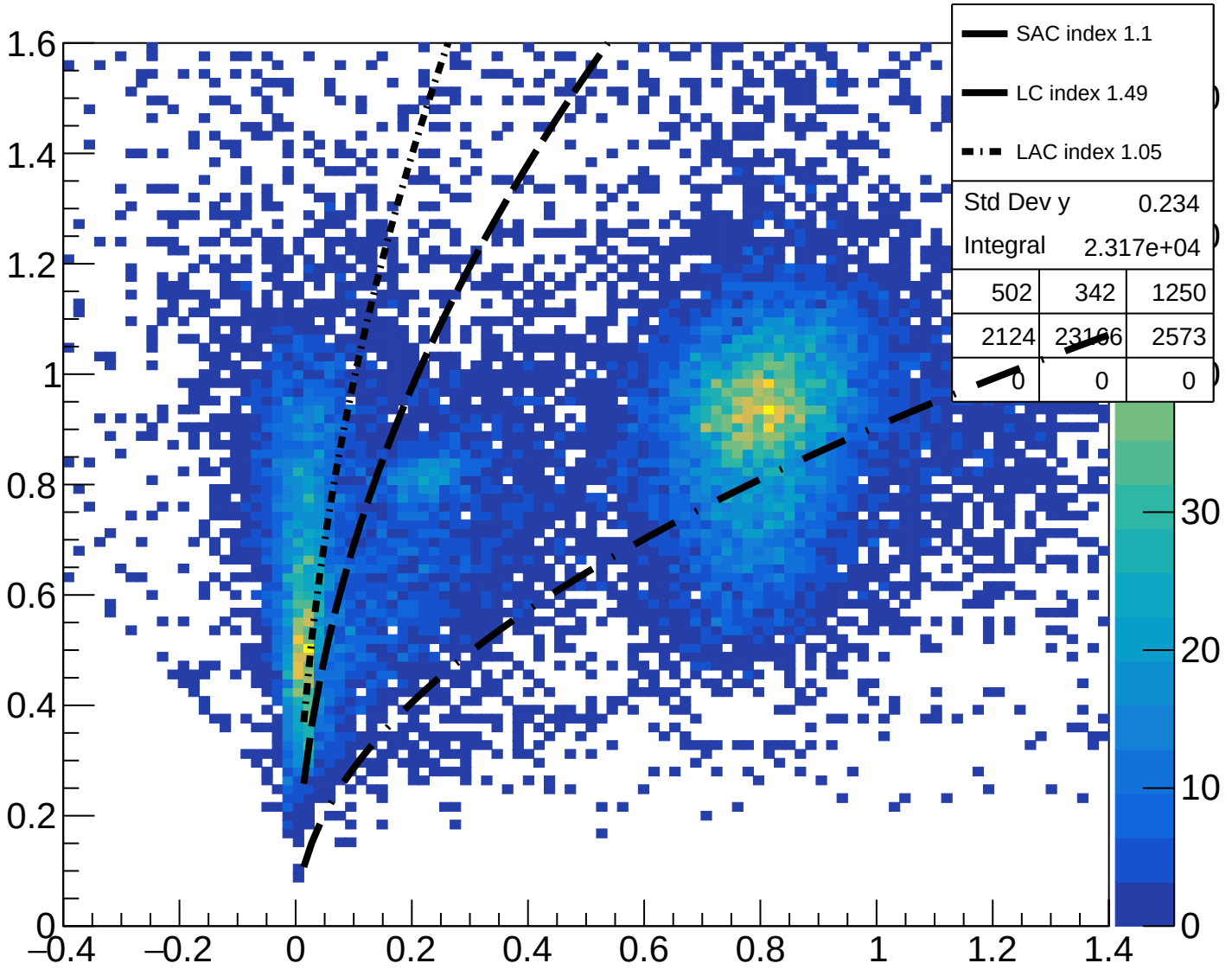

m2
No Cut
Cut Gate1 20ns
Cut Gate2 15ns
Cut Gate3 20ns
3000
2500
2000
1500
1000
500
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4

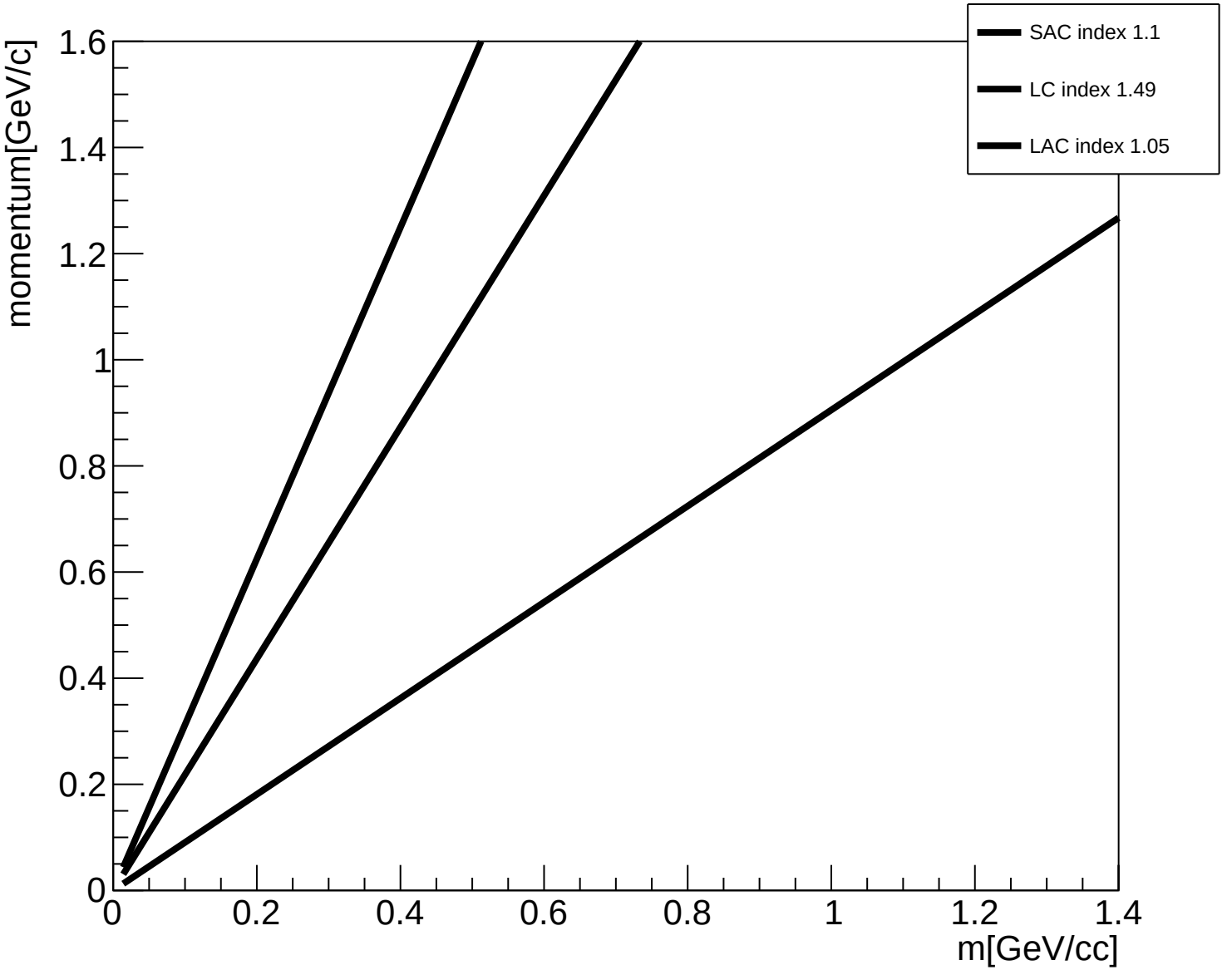

m2 Cut4
Cut4
Cut4 Gate1 20ns
Cut4 Gate2 15ns
Cut4 Gate3 20ns
1200
1000
800
600
400
200
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4


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 0.2053
Integral 4.481e+04
615 440 1767
3825 44811 4097
332 4683 710
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
60
40
20
0


SAC index 1.1
LC index 1.49
LAC index 1.05
Std Dev y 0.234
Integral 2.317e+04
502 342 1250
2124 23106 2573
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
30
20
10
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