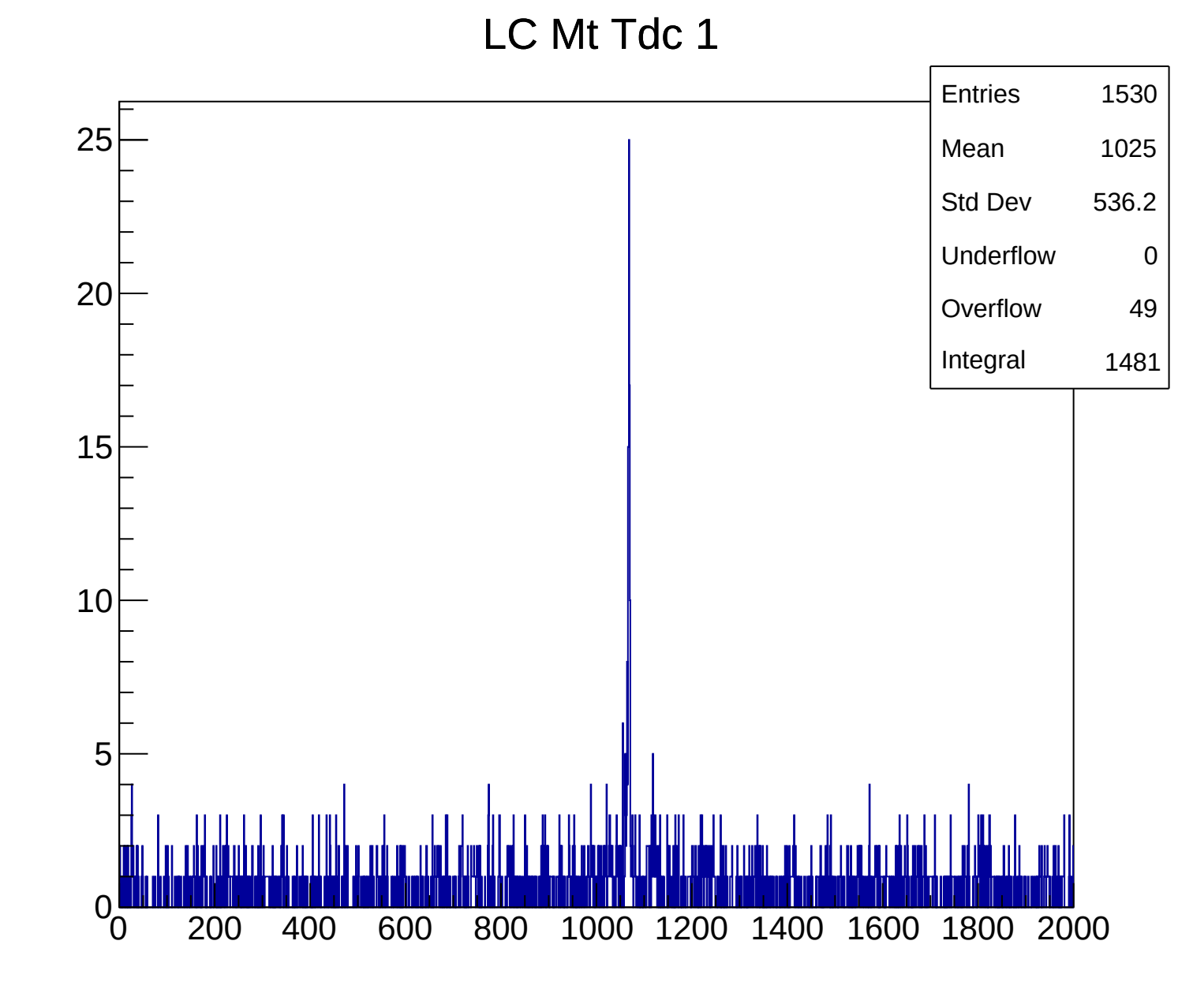
LC Mt Tdc 1
Entries 1530
Mean 1025
Std Dev 536.2
Underflow 0
Overflow 49
Integral 1481
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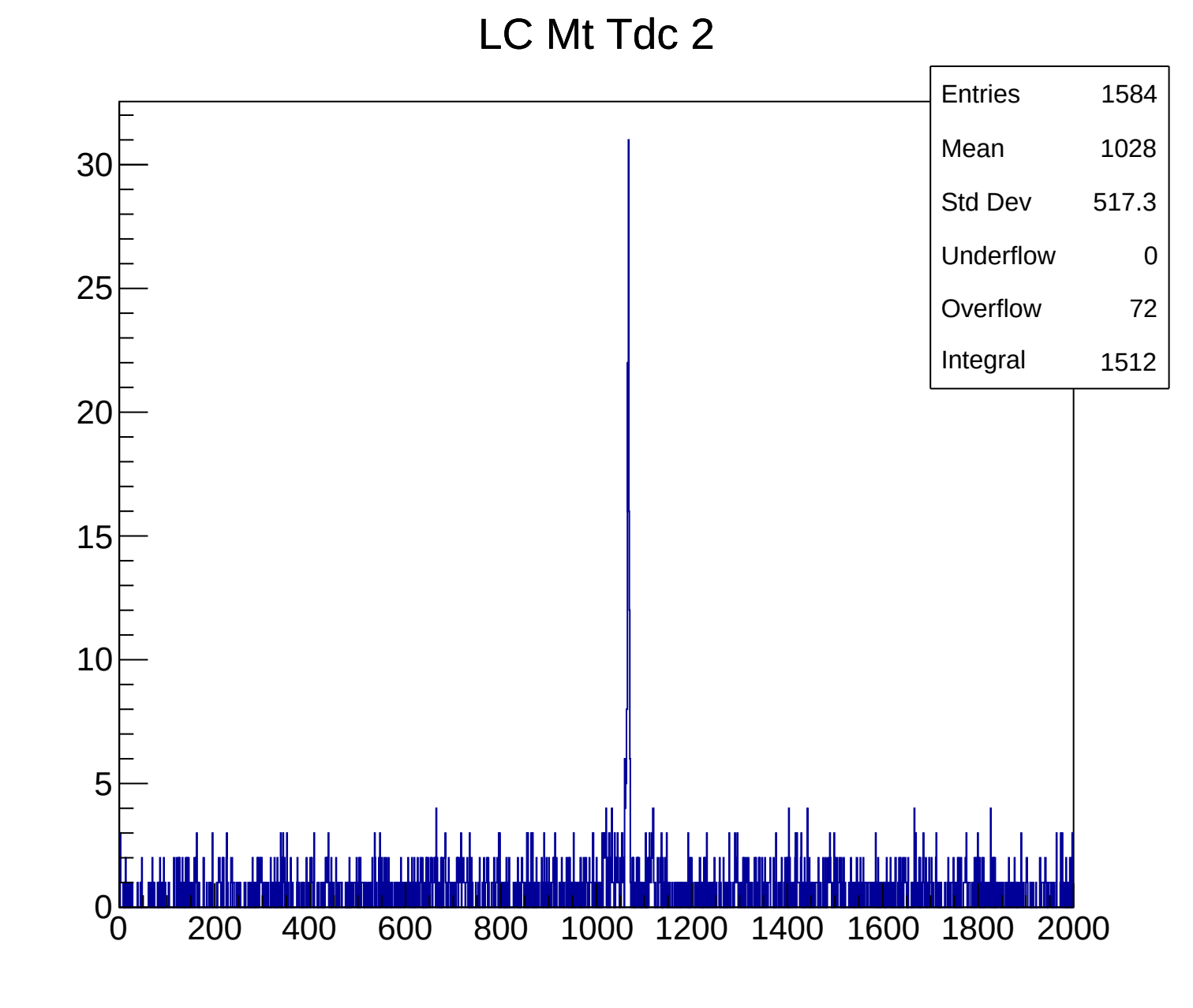
LC Mt Tdc 2
Entries 1584
Mean 1028
Std Dev 517.3
Underflow 0
Overflow 72
Integral 1512
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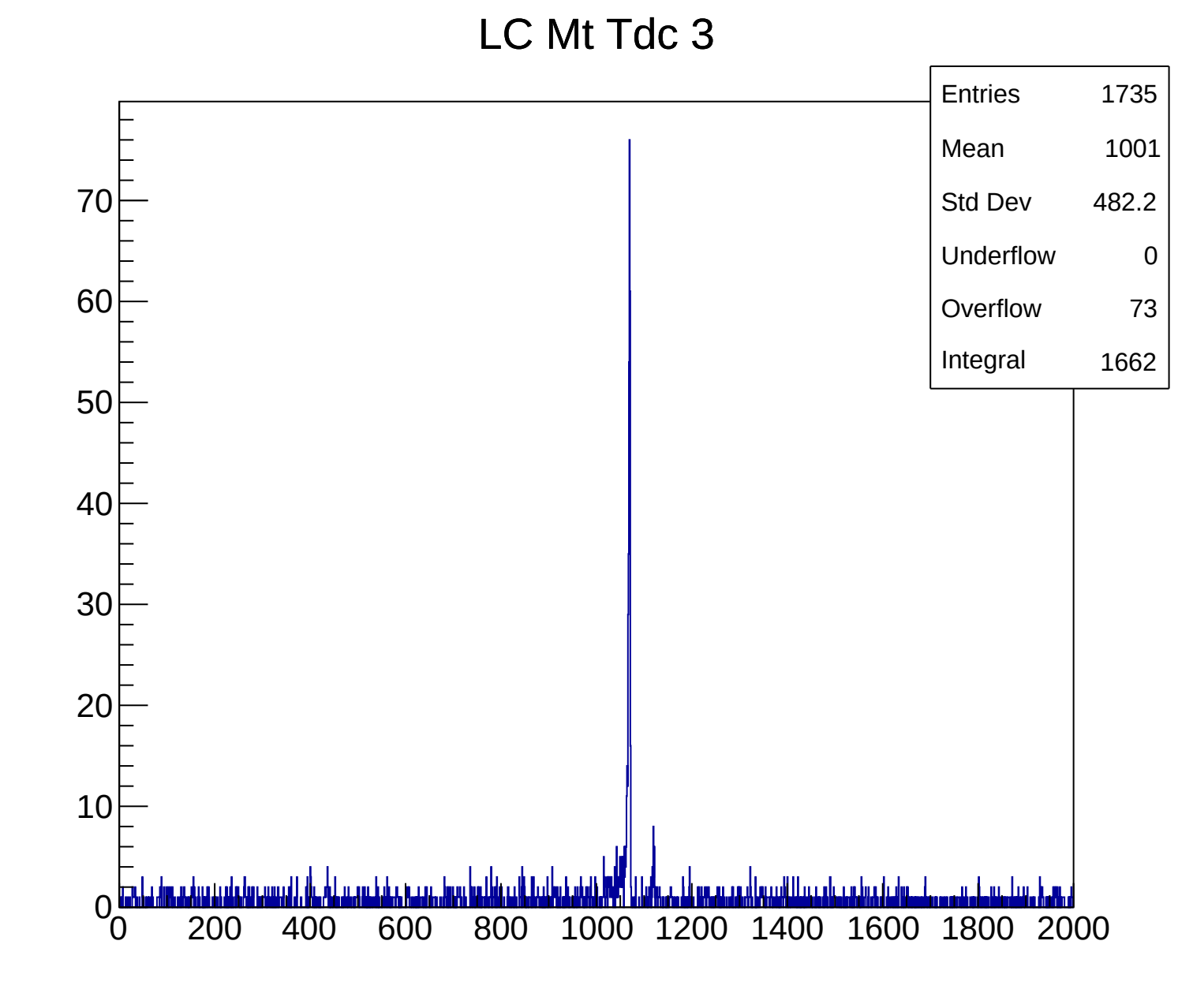
LC Mt Tdc 3
Entries 1735
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Std Dev 482.2
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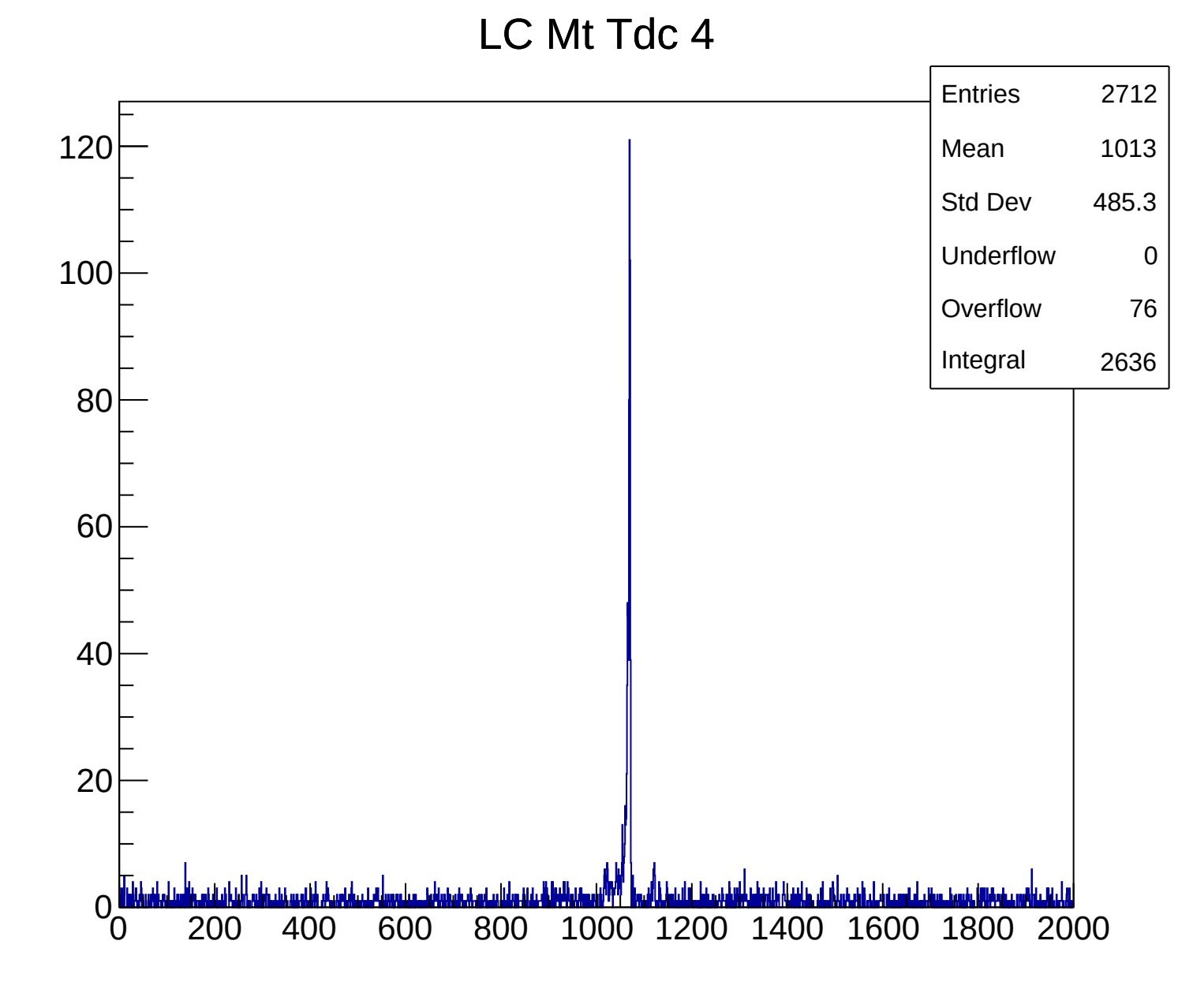
LC Mt Tdc 4
Entries 2712
Mean 1013
Std Dev 485.3
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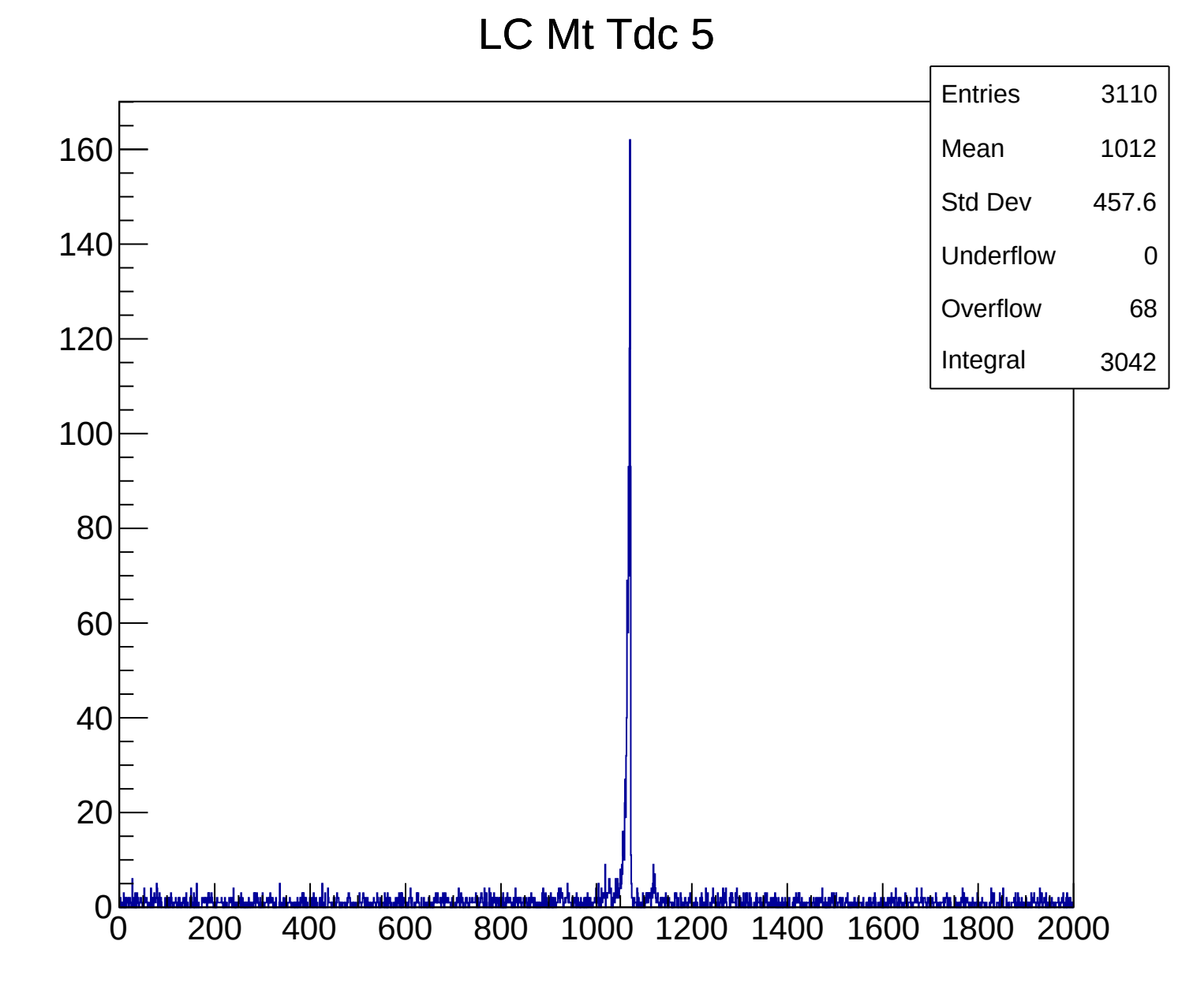
LC Mt Tdc 5
Entries 3110
Mean 1012
Std Dev 457.6
Underflow 0
Overflow 68
Integral 3042
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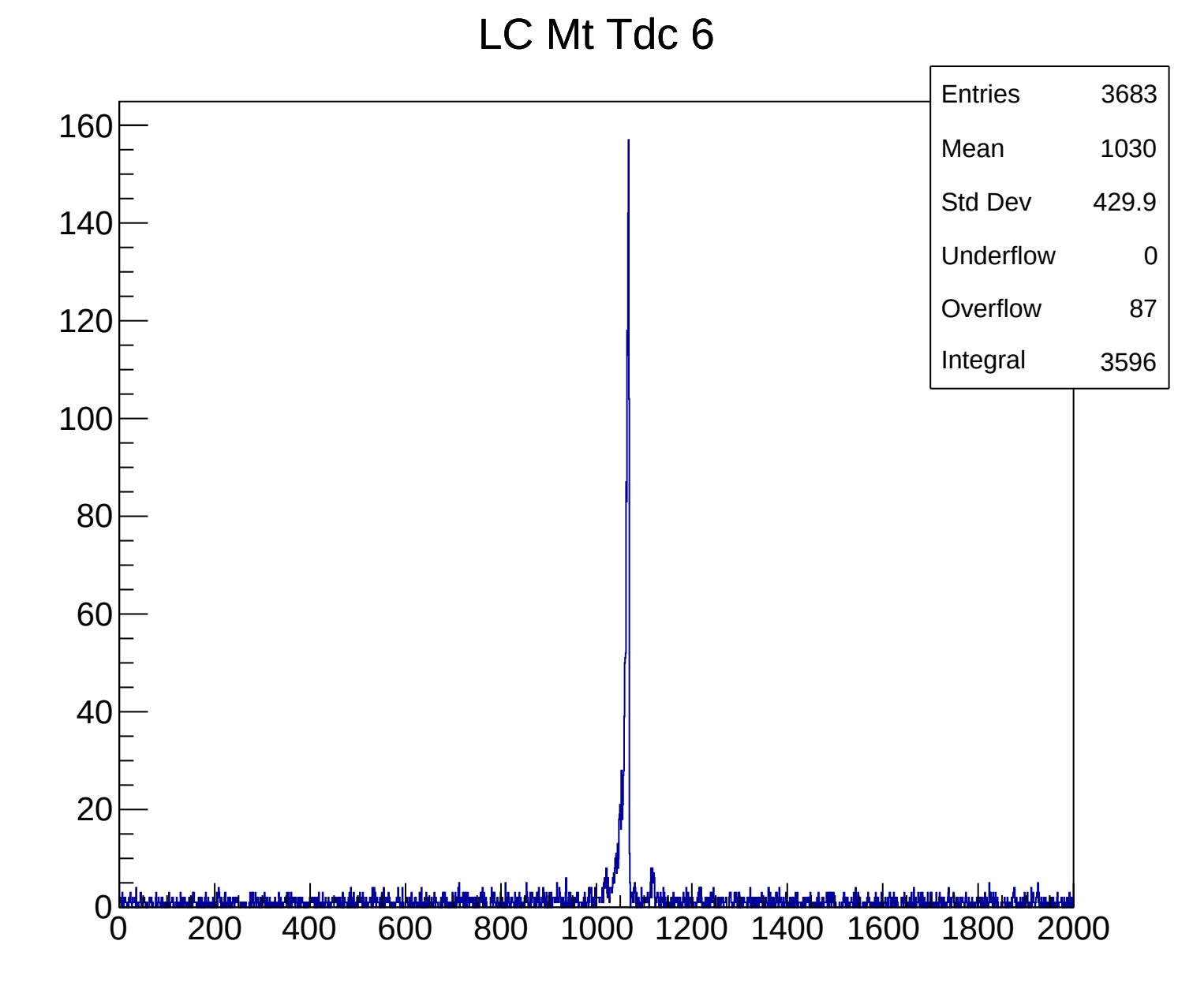
LC Mt Tdc 6
Entries 3683
Mean 1030
Std Dev 429.9
Underflow 0
Overflow 87
Integral 3596
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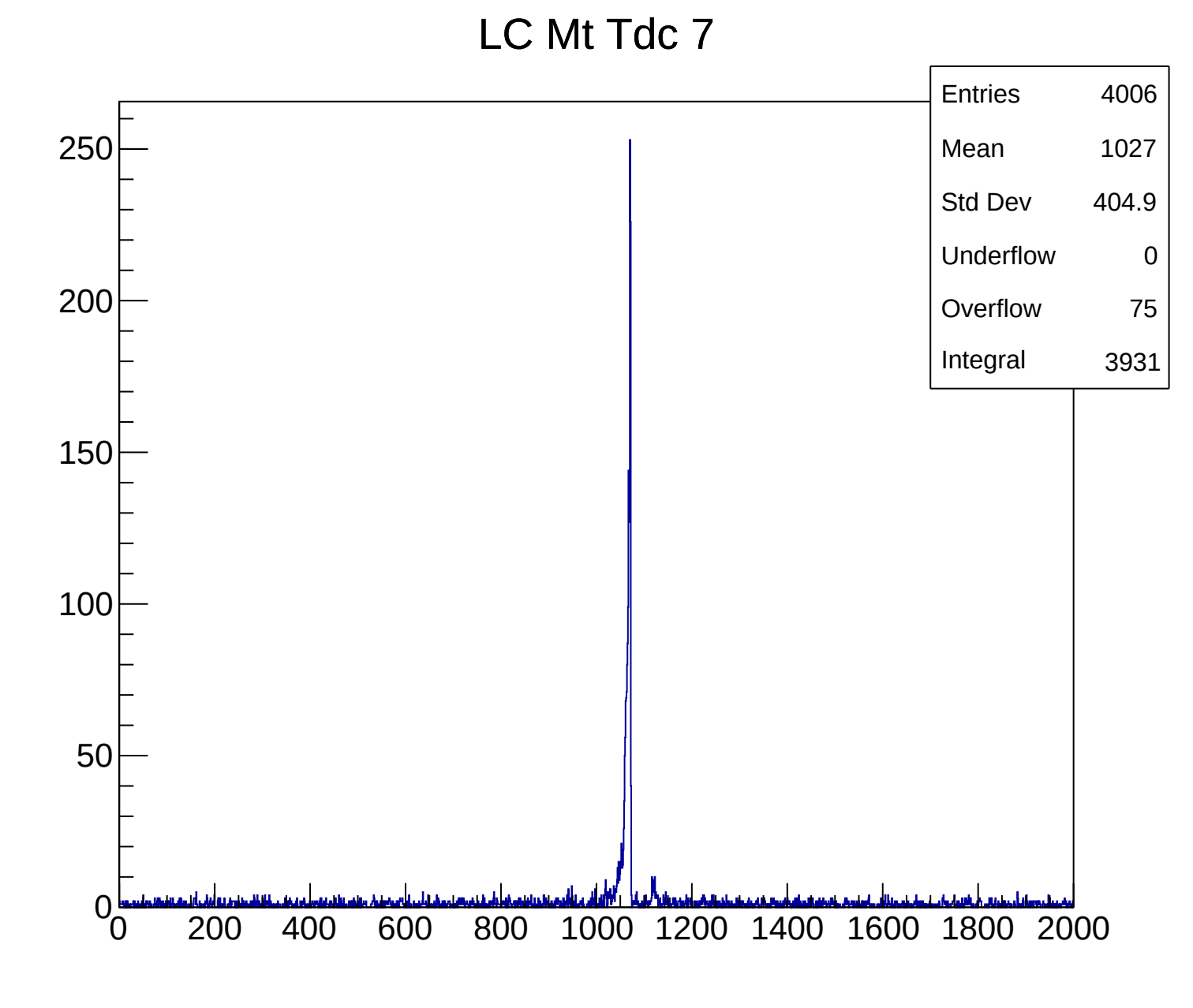
LC Mt Tdc 7
Entries 4006
Mean 1027
Std Dev 404.9
Underflow 0
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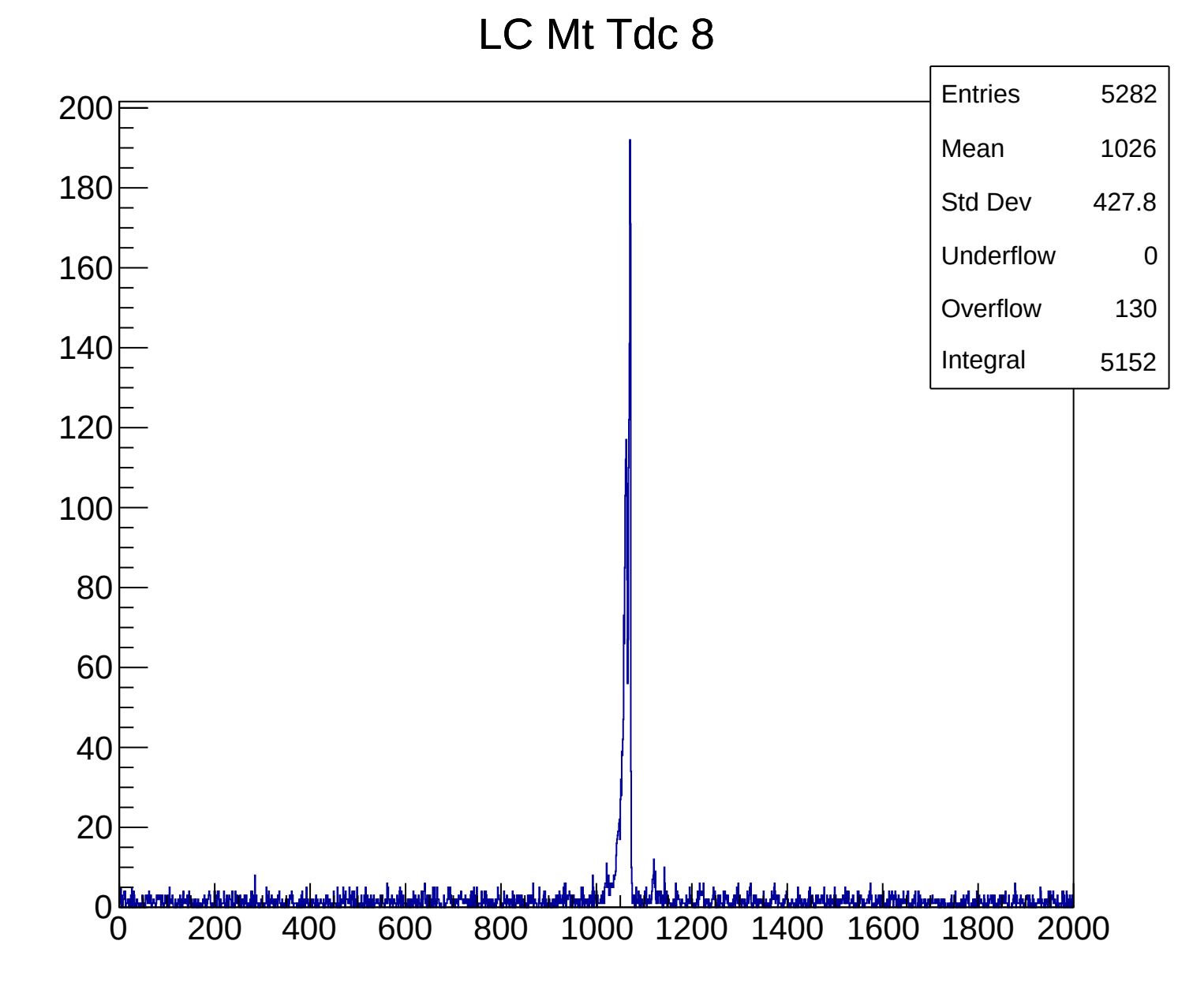
LC Mt Tdc 8
Entries 5282
Mean 1026
Std Dev 427.8
Underflow 0
Overflow 130
Integral 5152
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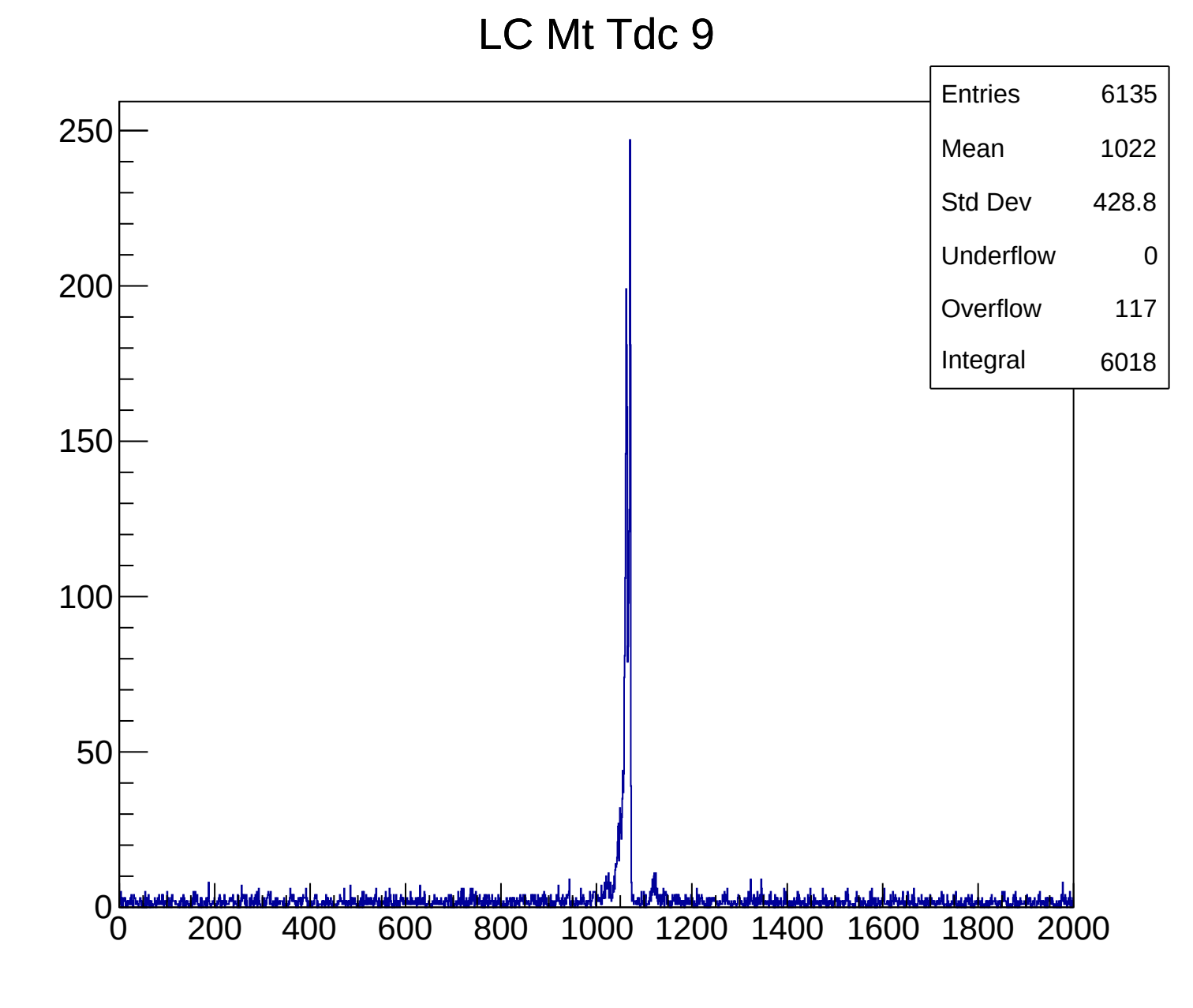
LC Mt Tdc 9
Entries 6135
Mean 1022
Std Dev 428.8
Underflow 0
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Integral 6018
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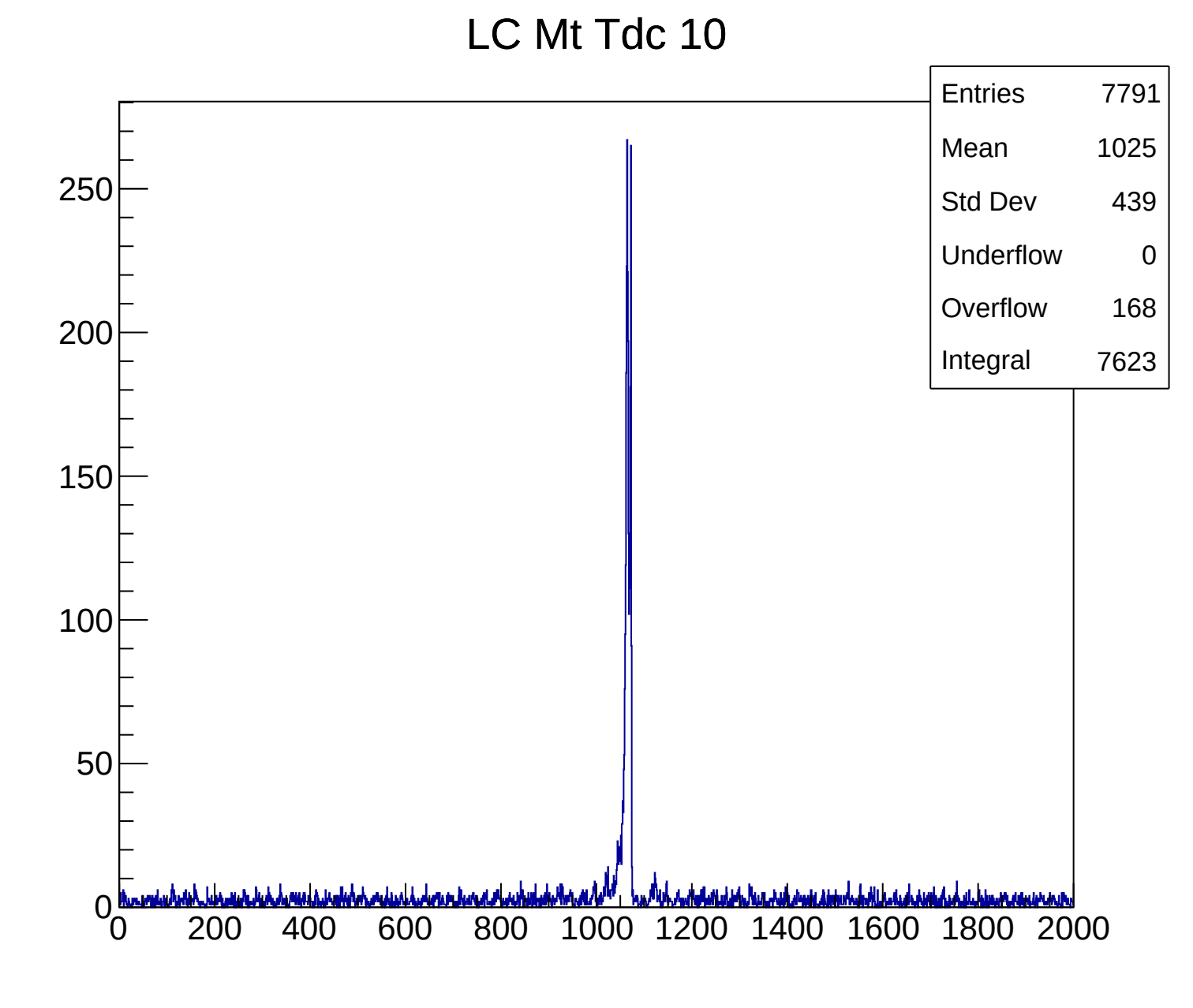
LC Mt Tdc 10
Entries 7791
Mean 1025
Std Dev 439
Underflow 0
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Integral 7623
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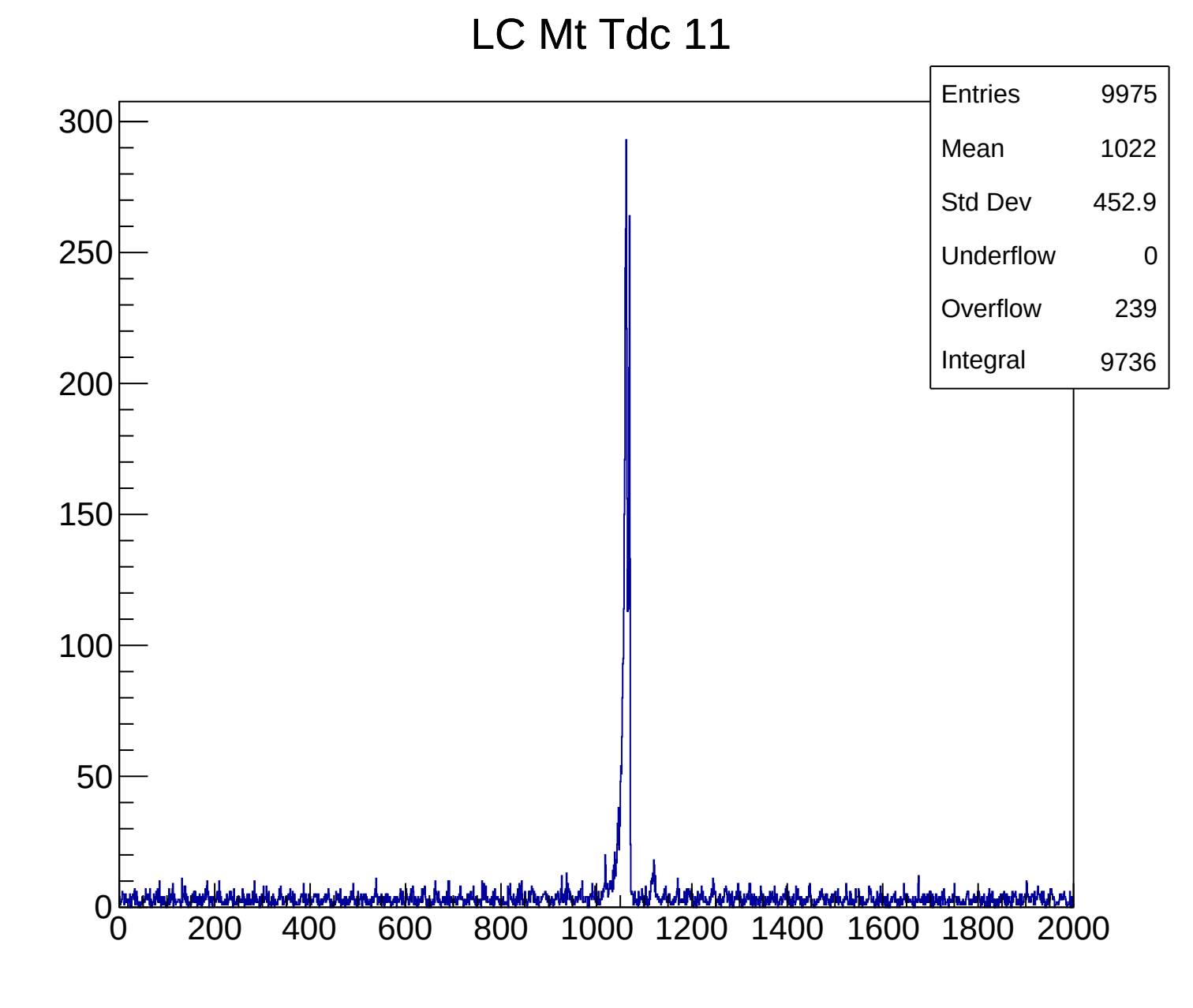
LC Mt Tdc 11
Entries 9975
Mean 1022
Std Dev 452.9
Underflow 0
Overflow 239
Integral 9736
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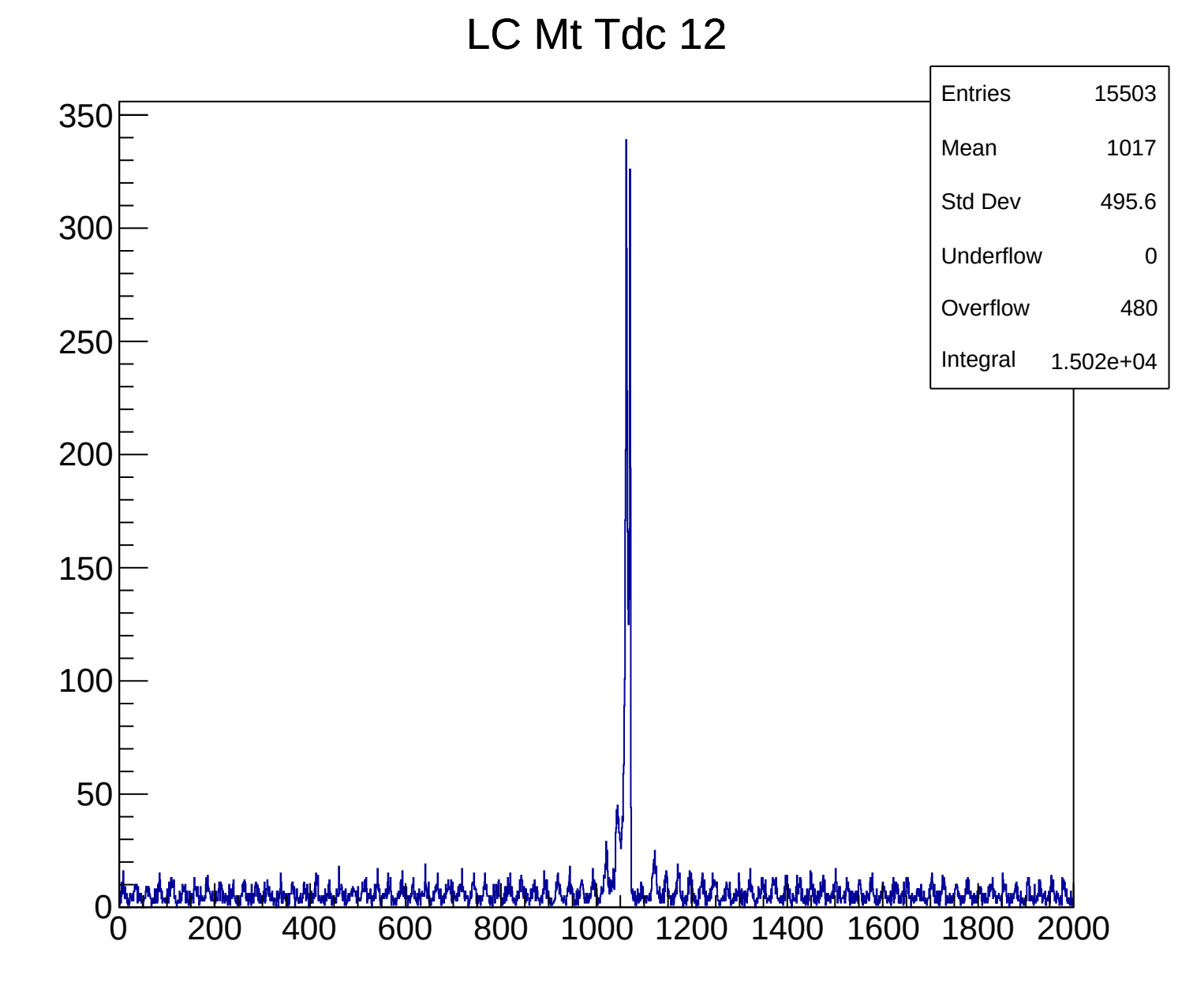
LC Mt Tdc 12
Entries 15503
Mean 1017
Std Dev 495.6
Underflow 0
Overflow 480
Integral 1.502e+04
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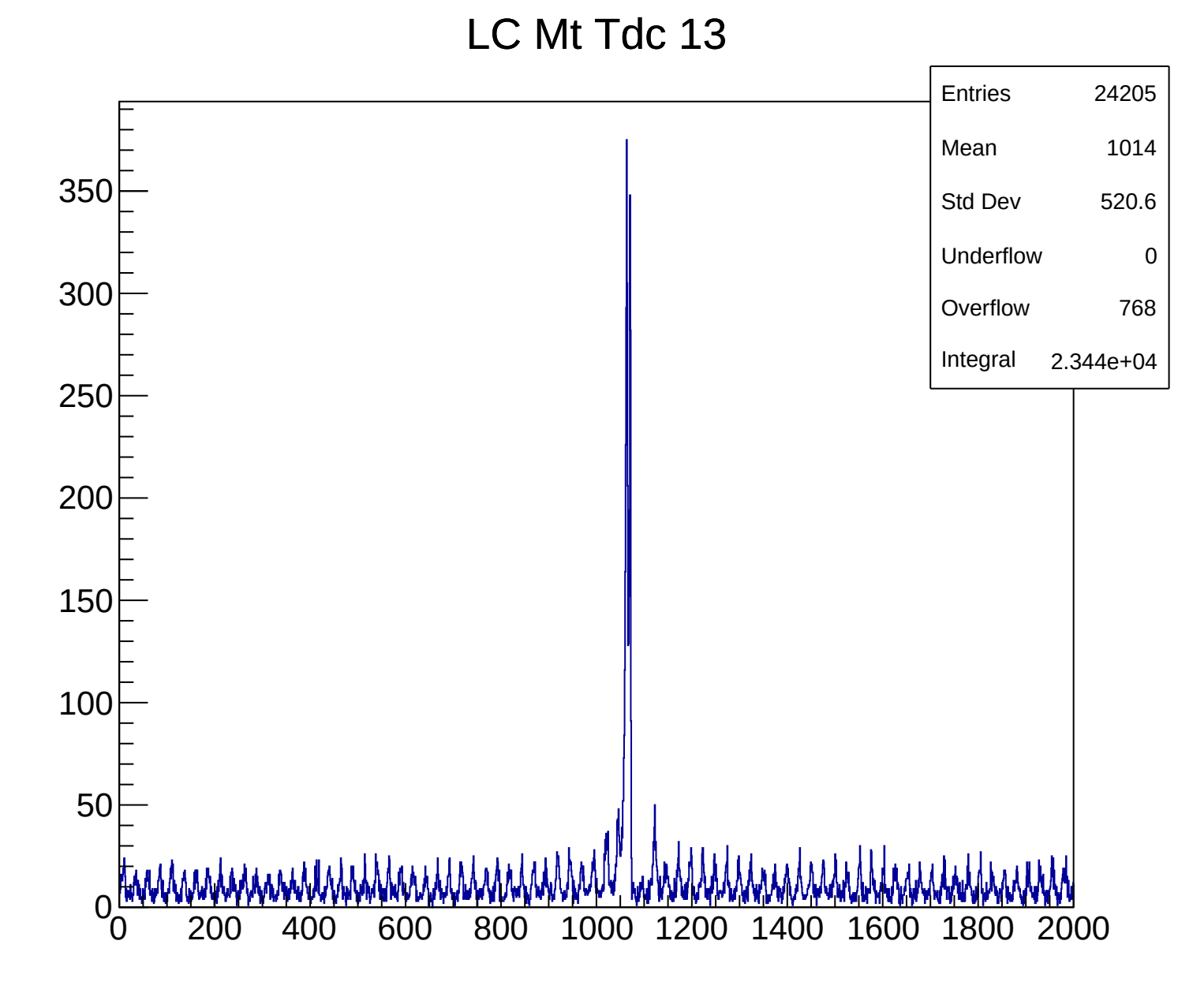
LC Mt Tdc 13
Entries 24205
Mean 1014
Std Dev 520.6
Underflow 0
Overflow 768
Integral 2.344e+04
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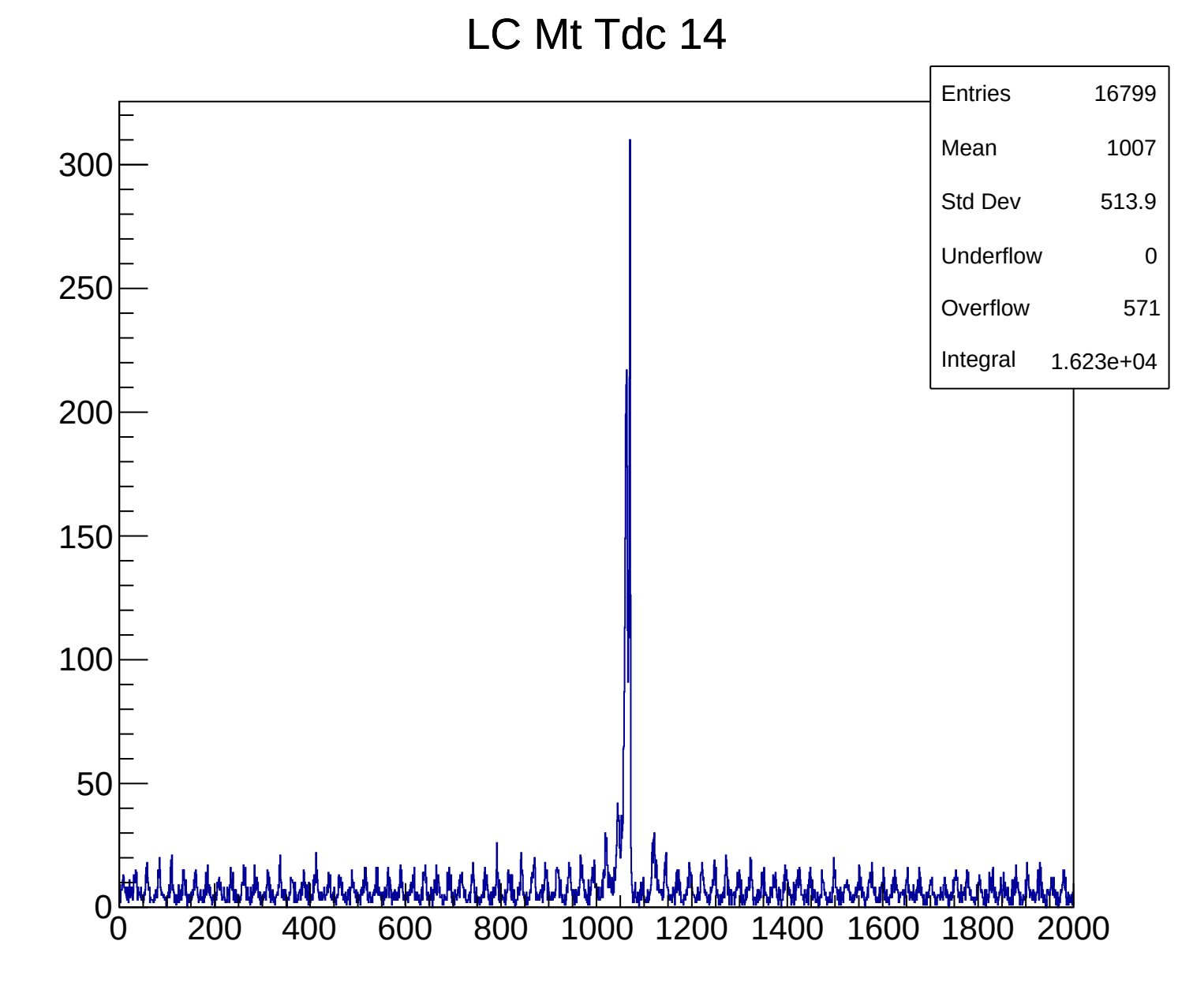
LC Mt Tdc 14
Entries 16799
Mean 1007
Std Dev 513.9
Underflow 0
Overflow 571
Integral 1.623e+04
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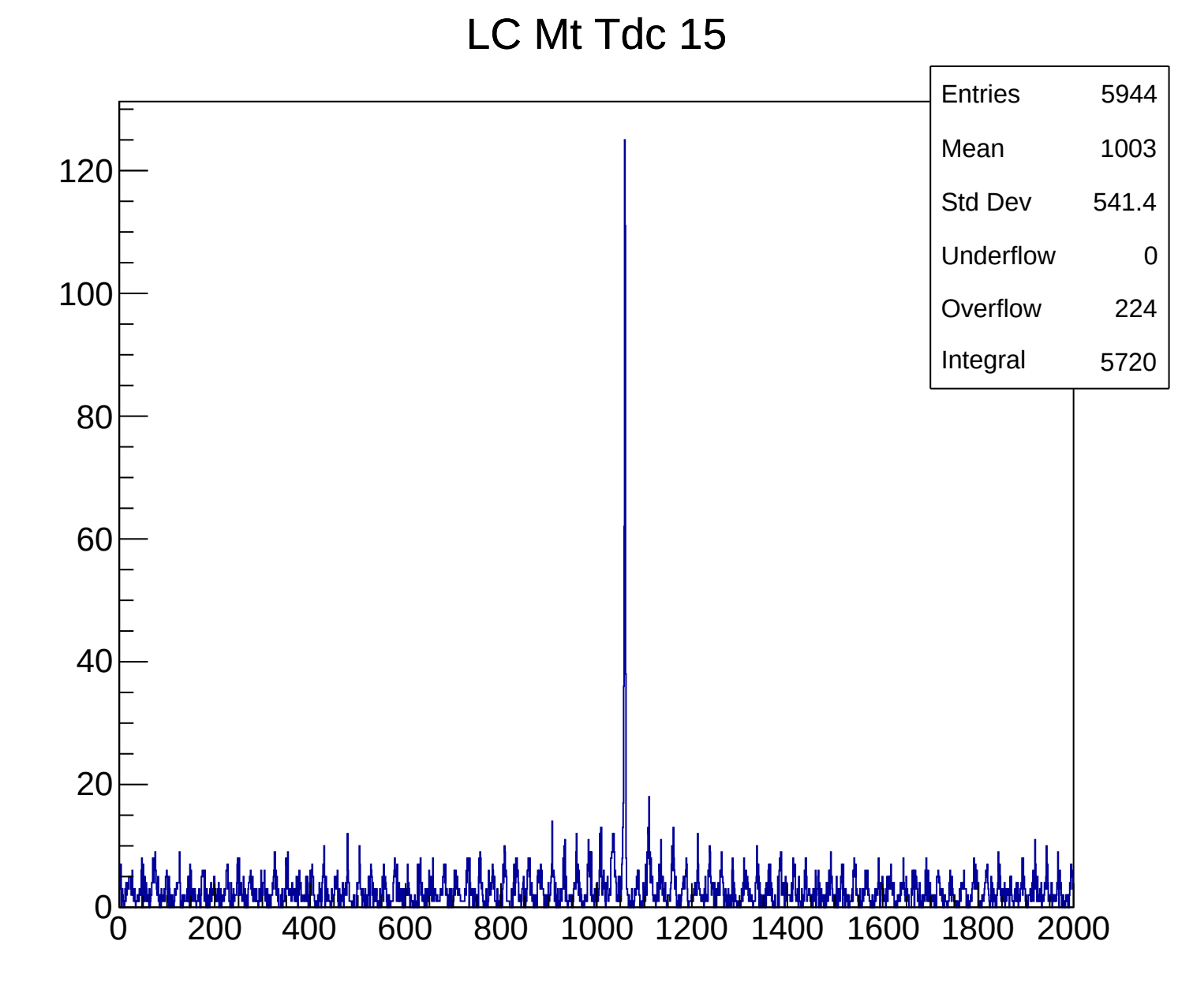
LC Mt Tdc 15
Entries 5944
Mean 1003
Std Dev 541.4
Underflow 0
Overflow 224
Integral 5720
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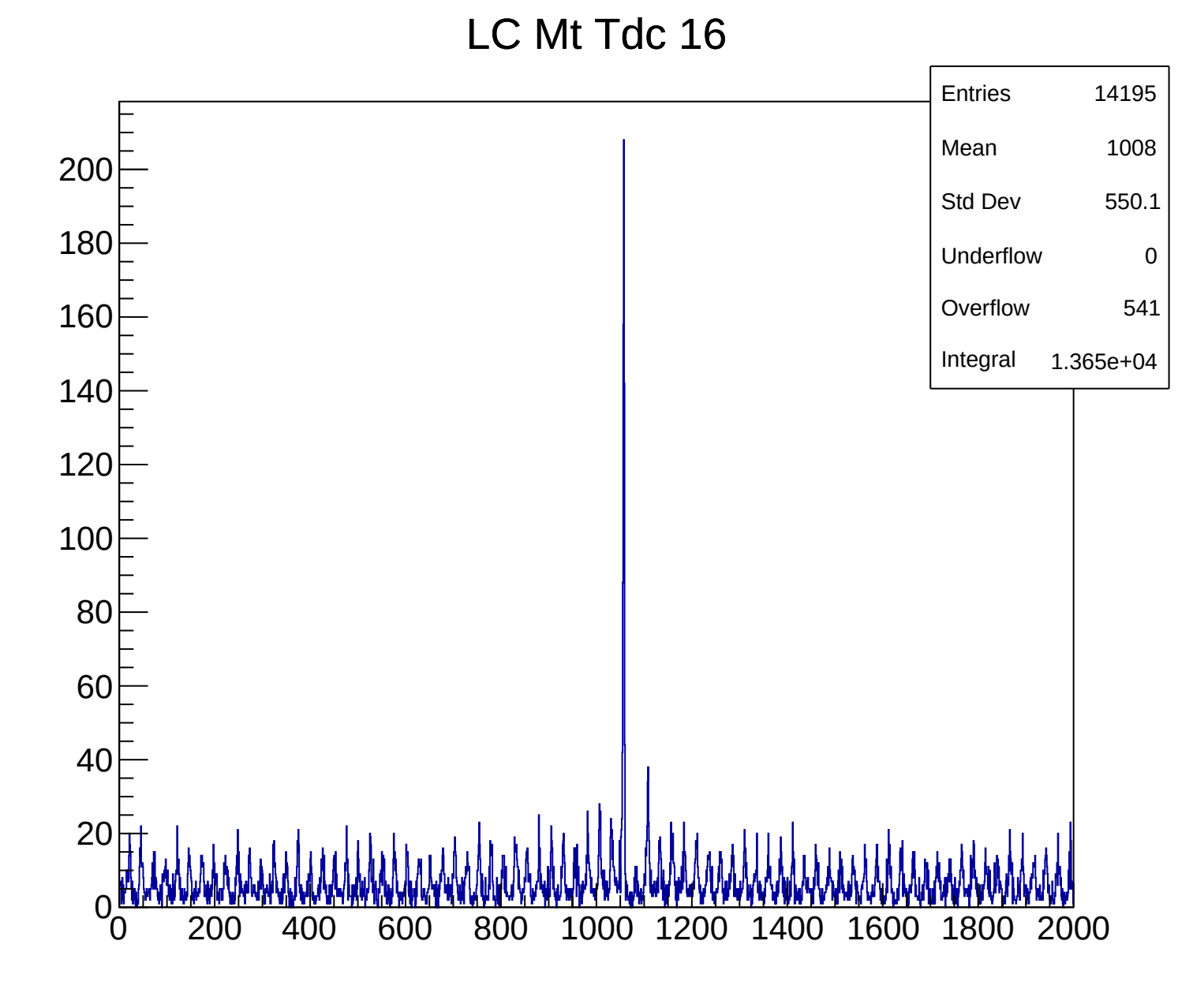
LC Mt Tdc 16
Entries 14195
Mean 1008
Std Dev 550.1
Underflow 0
Overflow 541
Integral 1.365e+04
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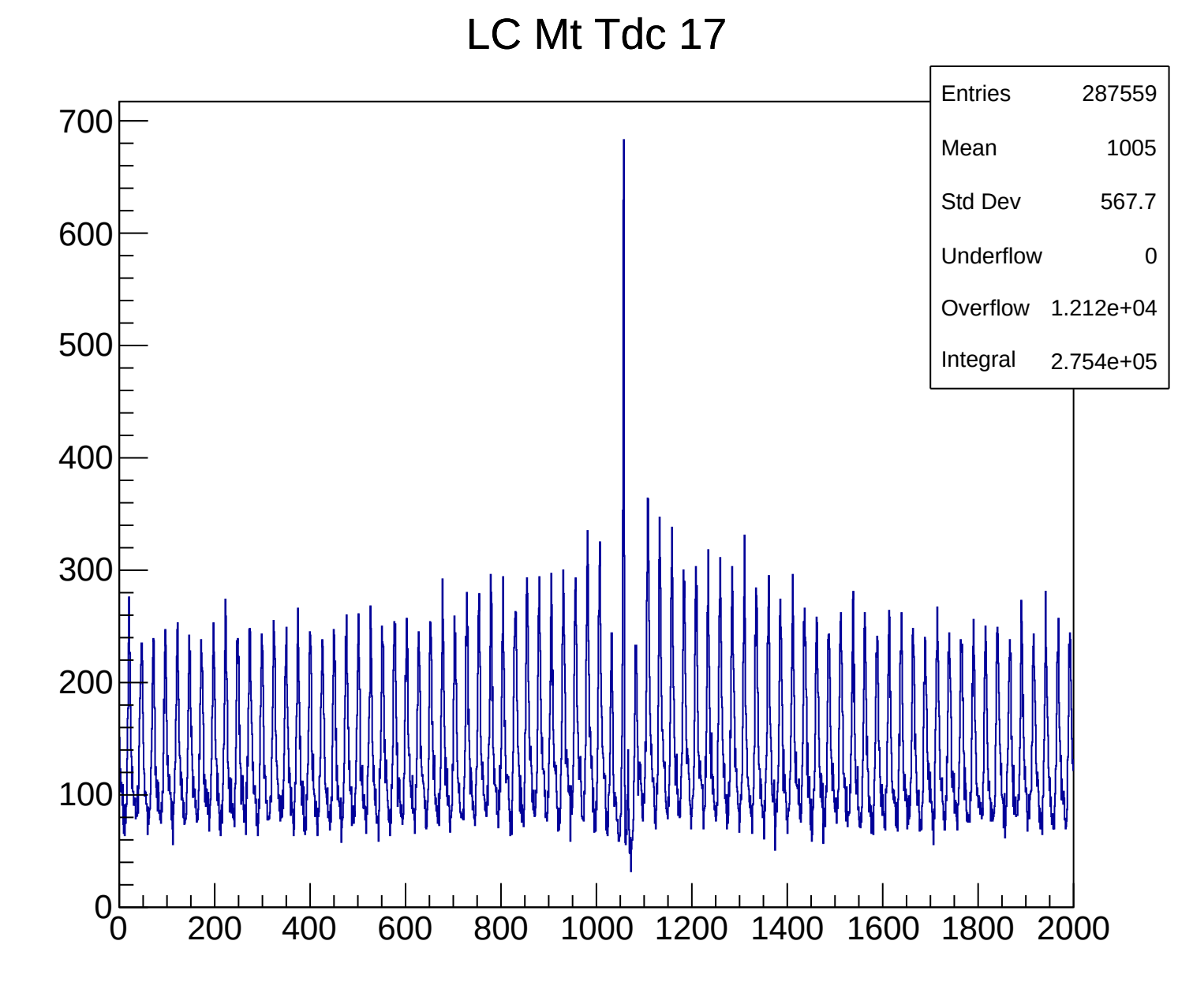
LC Mt Tdc 17
Entries 287559
Mean 1005
Std Dev 567.7
Underflow 0
Overflow 1.212e+04
Integral 2.754e+05
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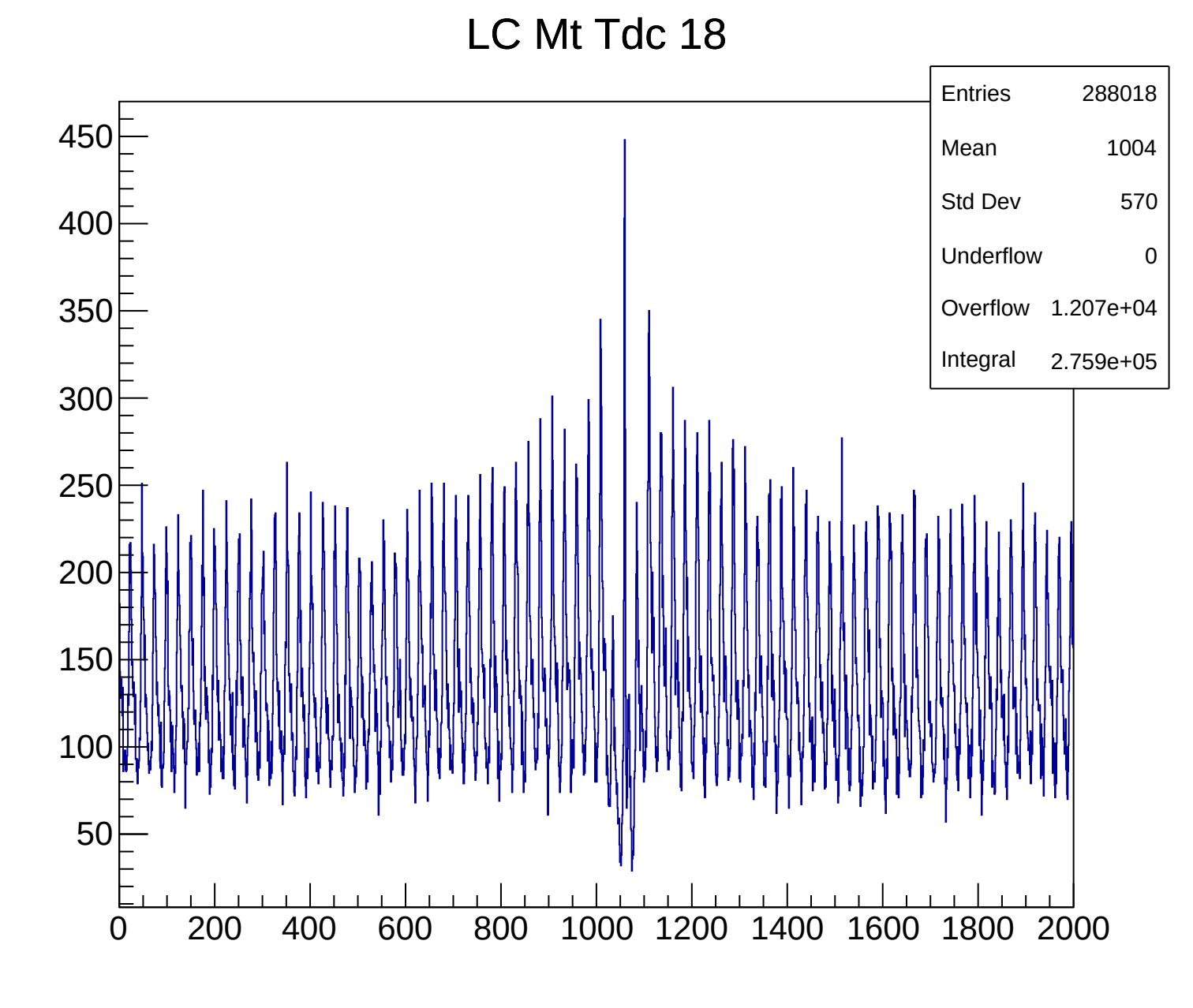
LC Mt Tdc 18
Entries 288018
Mean 1004
Std Dev 570
Underflow 0
Overflow 1.207e+04
Integral 2.759e+05
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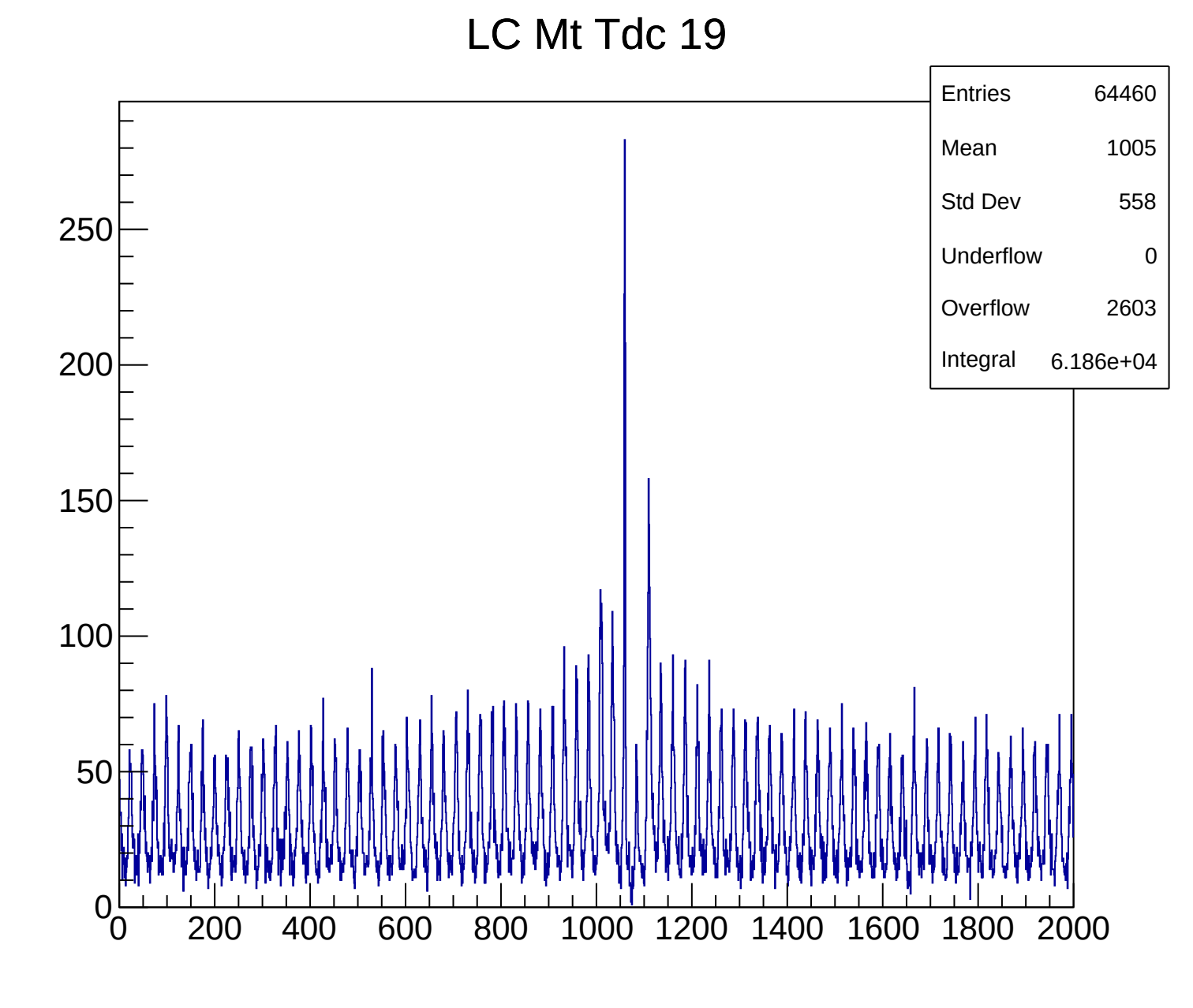
LC Mt Tdc 19
Entries 64460
Mean 1005
Std Dev 558
Underflow 0
Overflow 2603
Integral 6.186e+04
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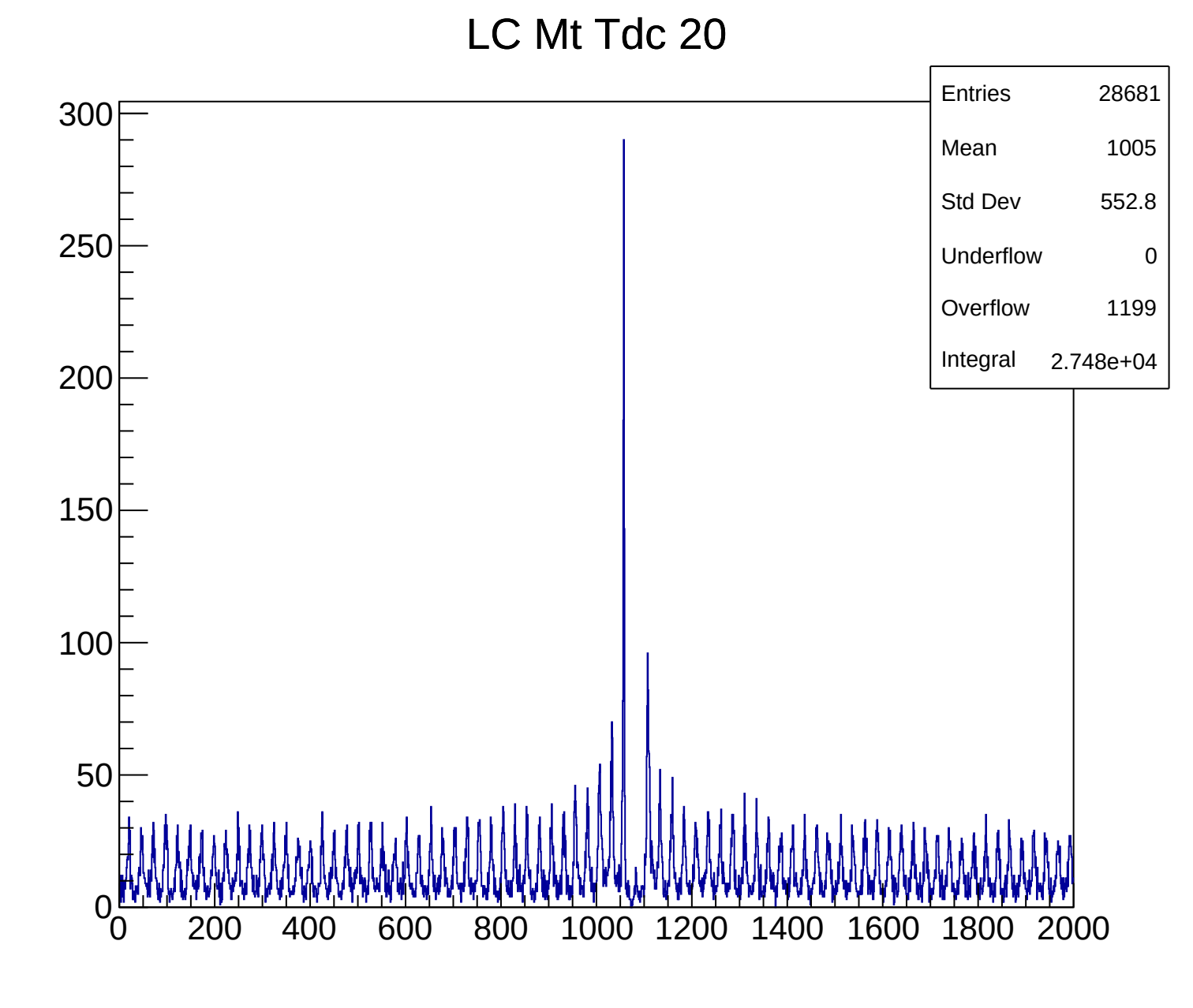
LC Mt Tdc 20
Entries 28681
Mean 1005
Std Dev 552.8
Underflow 0
Overflow 1199
Integral 2.748e+04
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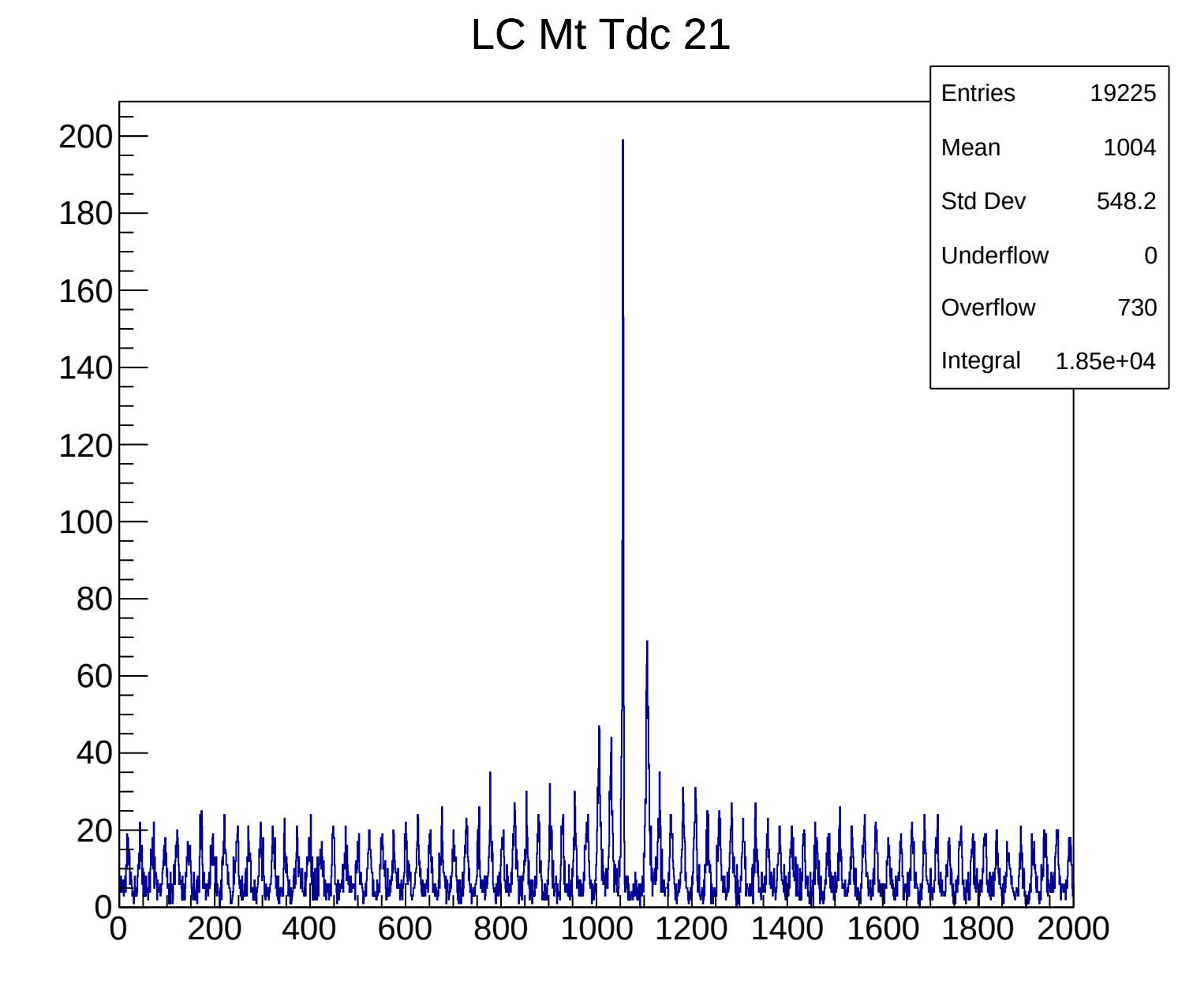
LC Mt Tdc 21
Entries 19225
Mean 1004
Std Dev 548.2
Underflow 0
Overflow 730
Integral 1.85e+04
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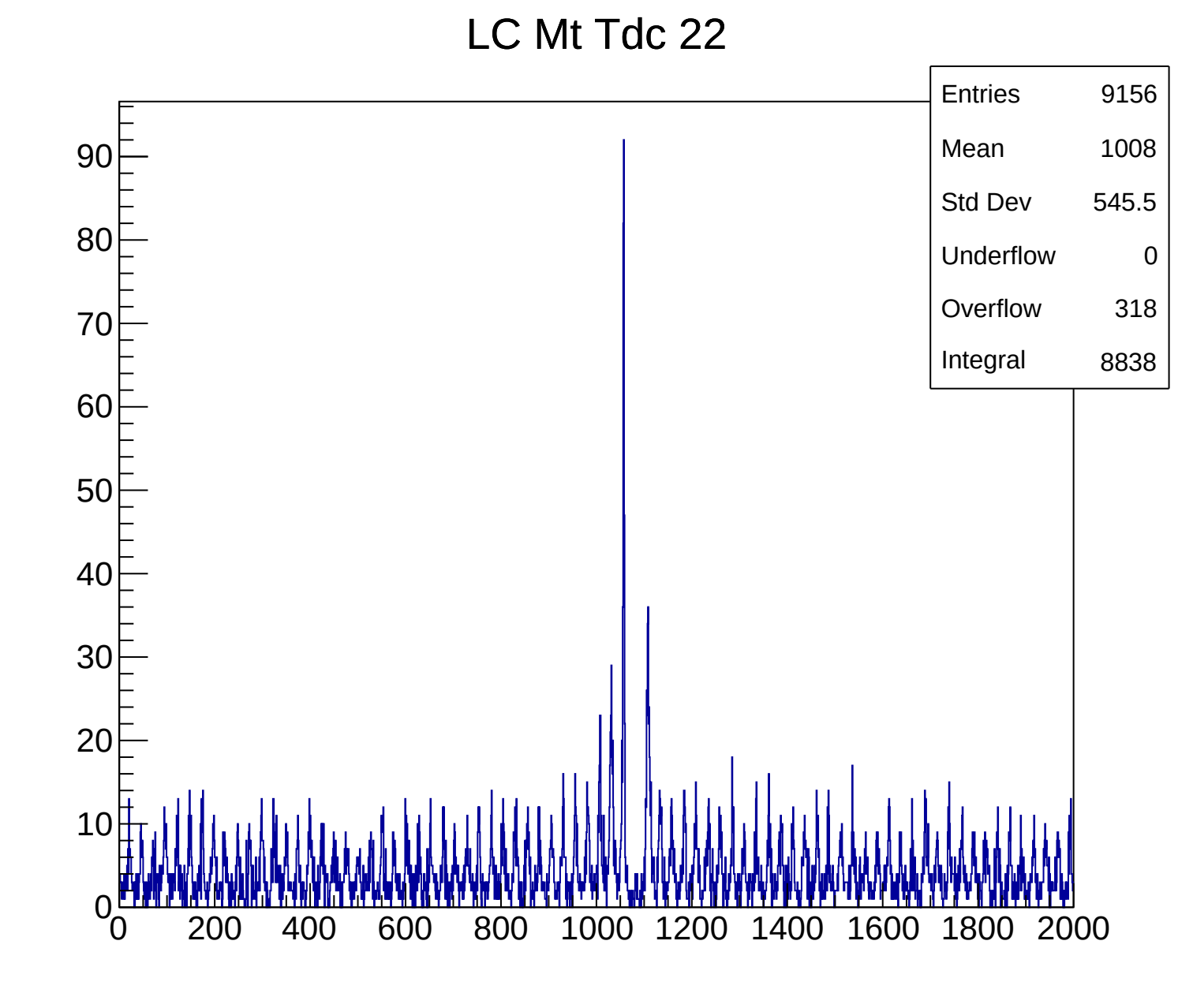
LC Mt Tdc 22
Entries 9156
Mean 1008
Std Dev 545.5
Underflow 0
Overflow 318
Integral 8838
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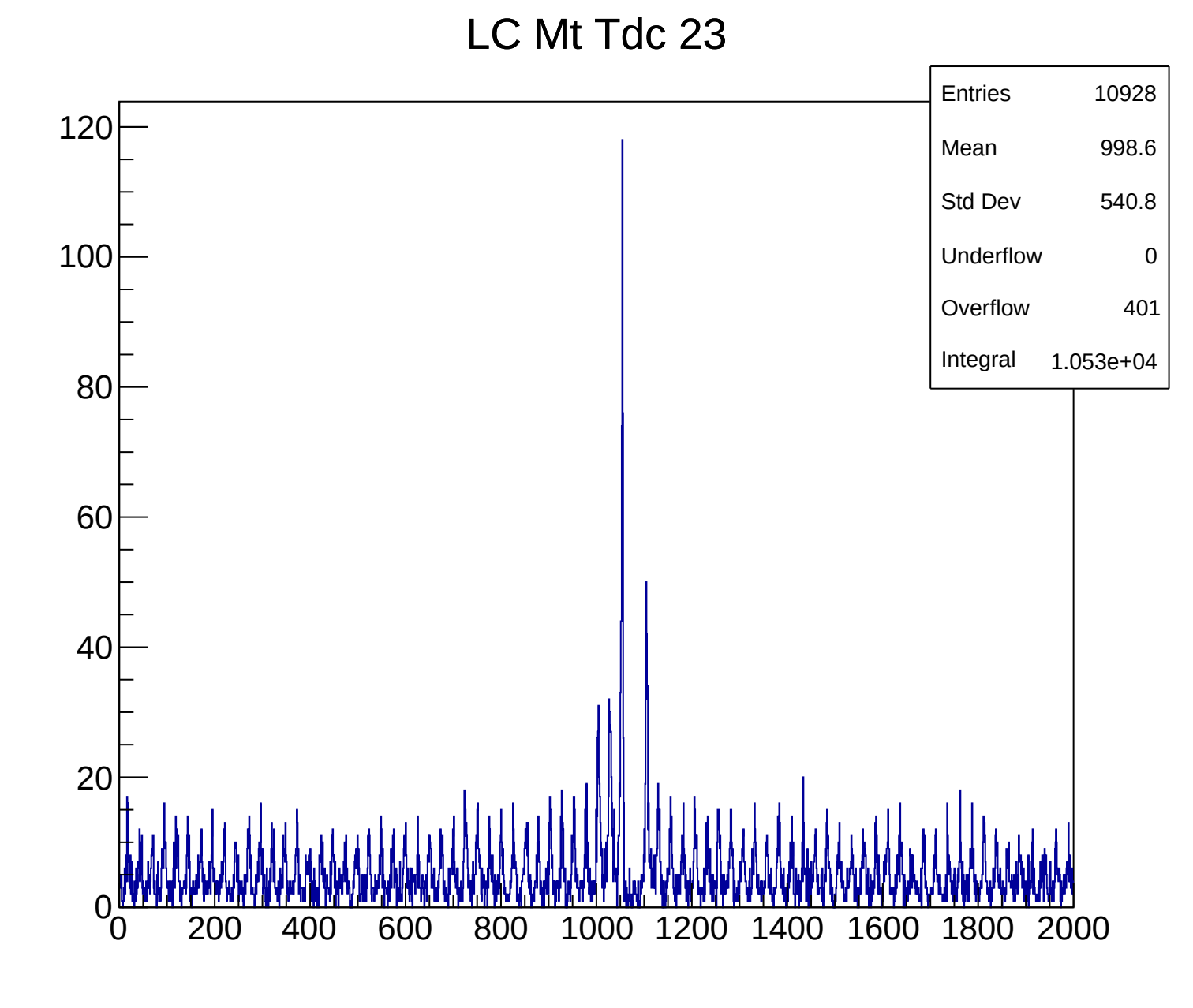
LC Mt Tdc 23
Entries 10928
Mean 998.6
Std Dev 540.8
Underflow 0
Overflow 401
Integral 1.053e+04
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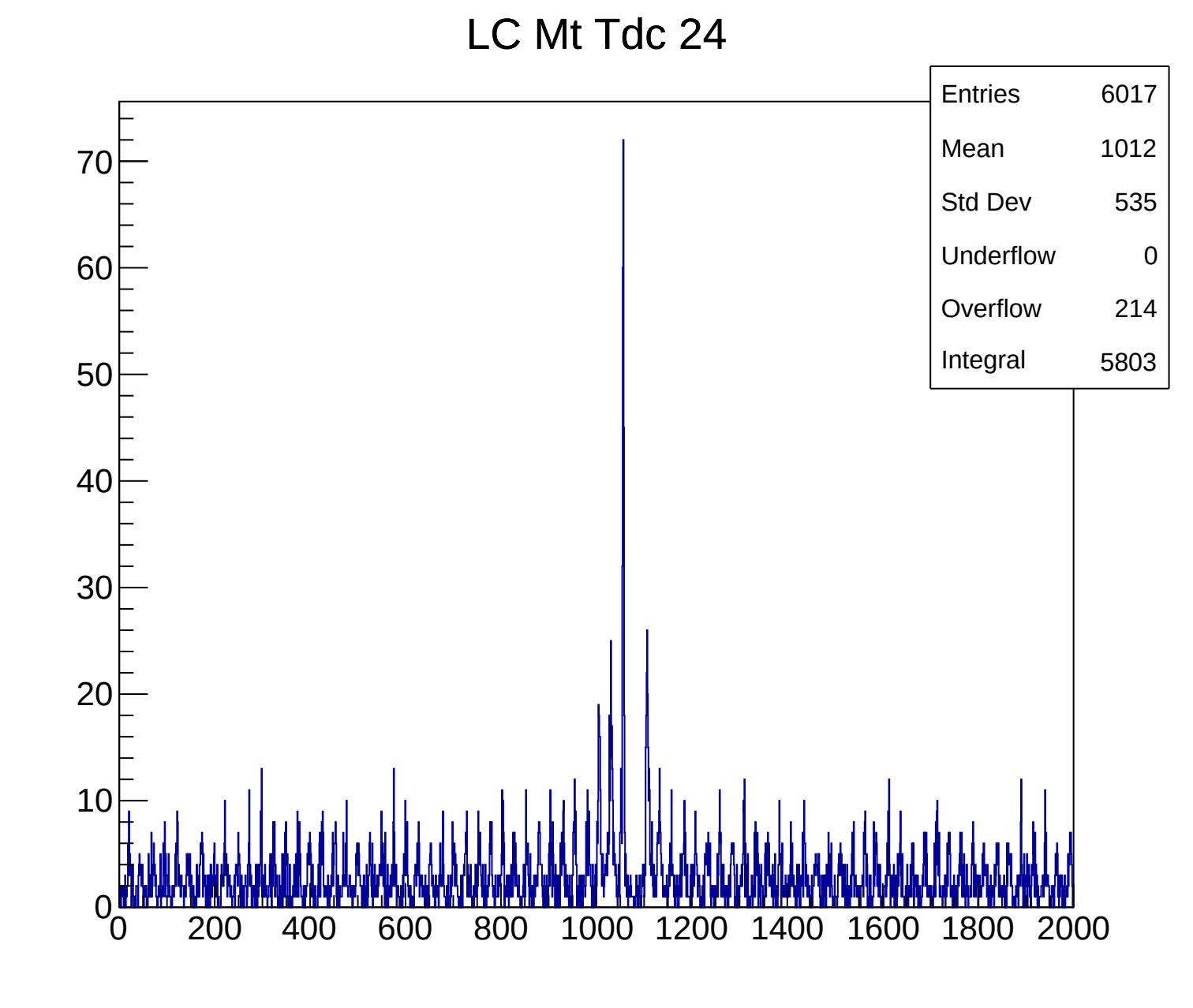
LC Mt Tdc 24
Entries 6017
Mean 1012
Std Dev 535
Underflow 0
Overflow 214
Integral 5803
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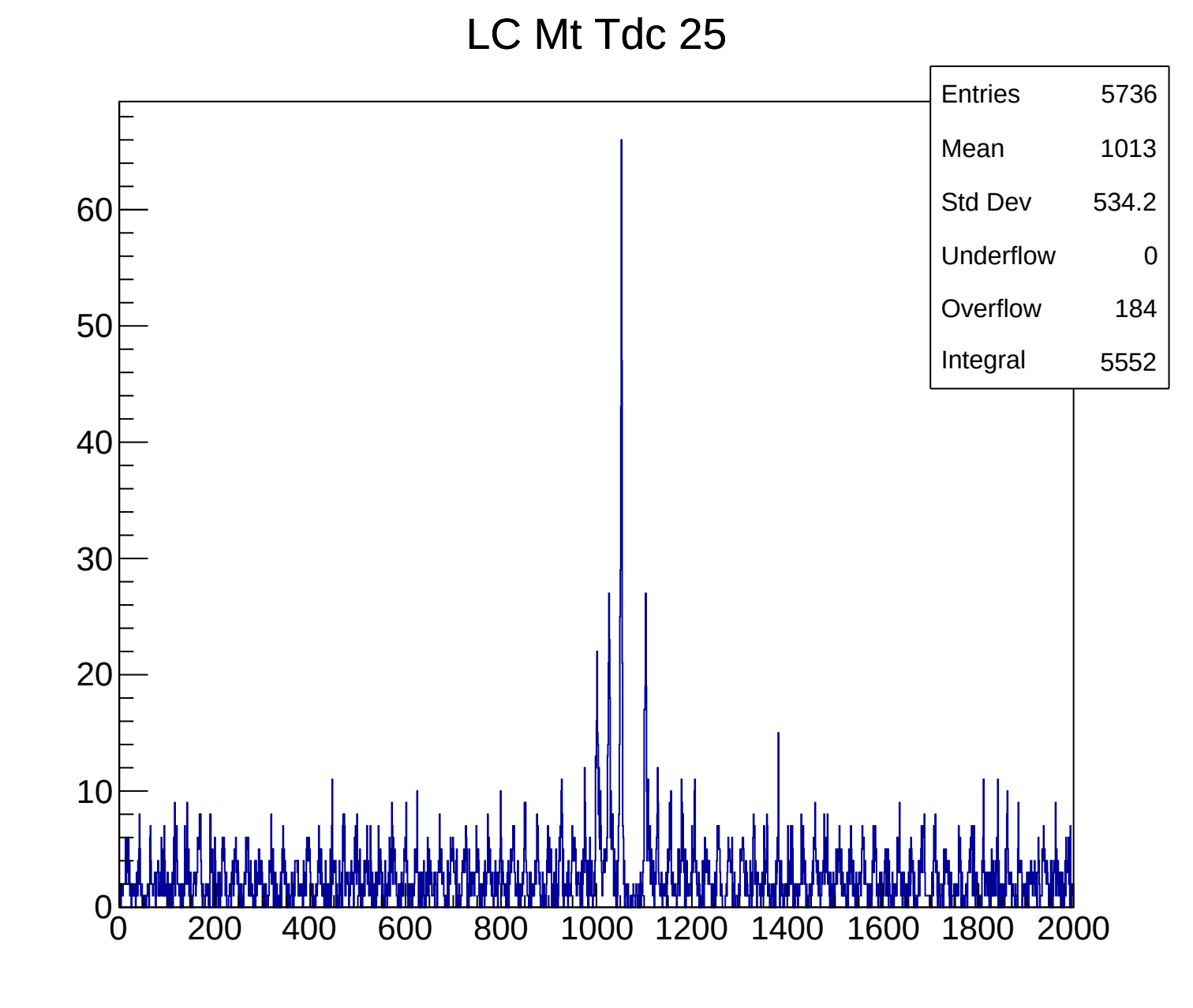
LC Mt Tdc 25
Entries 5736
Mean 1013
Std Dev 534.2
Underflow 0
Overflow 184
Integral 5552
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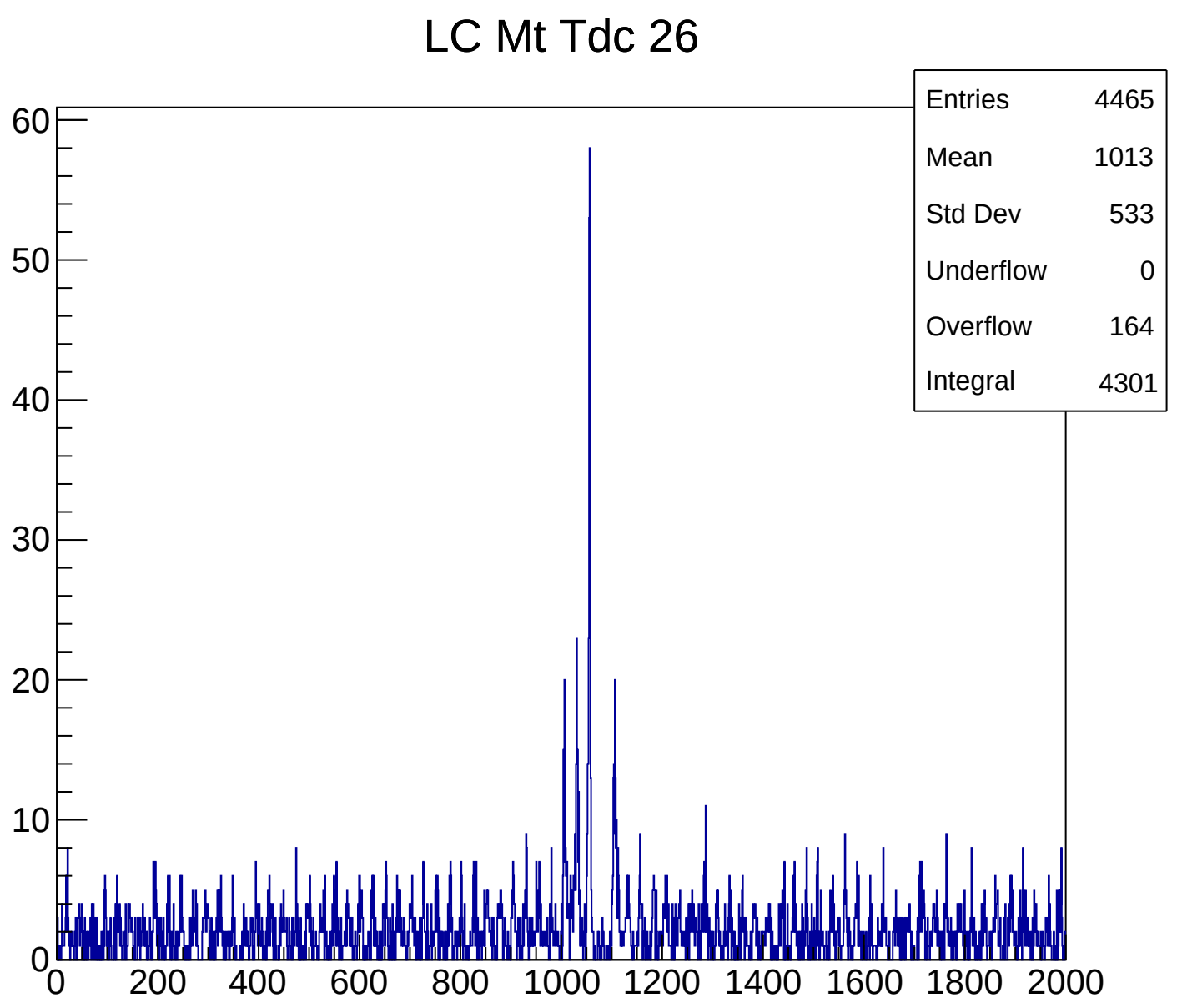
LC Mt Tdc 26
Entries 4465
Mean 1013
Std Dev 533
Underflow 0
Overflow 164
Integral 4301
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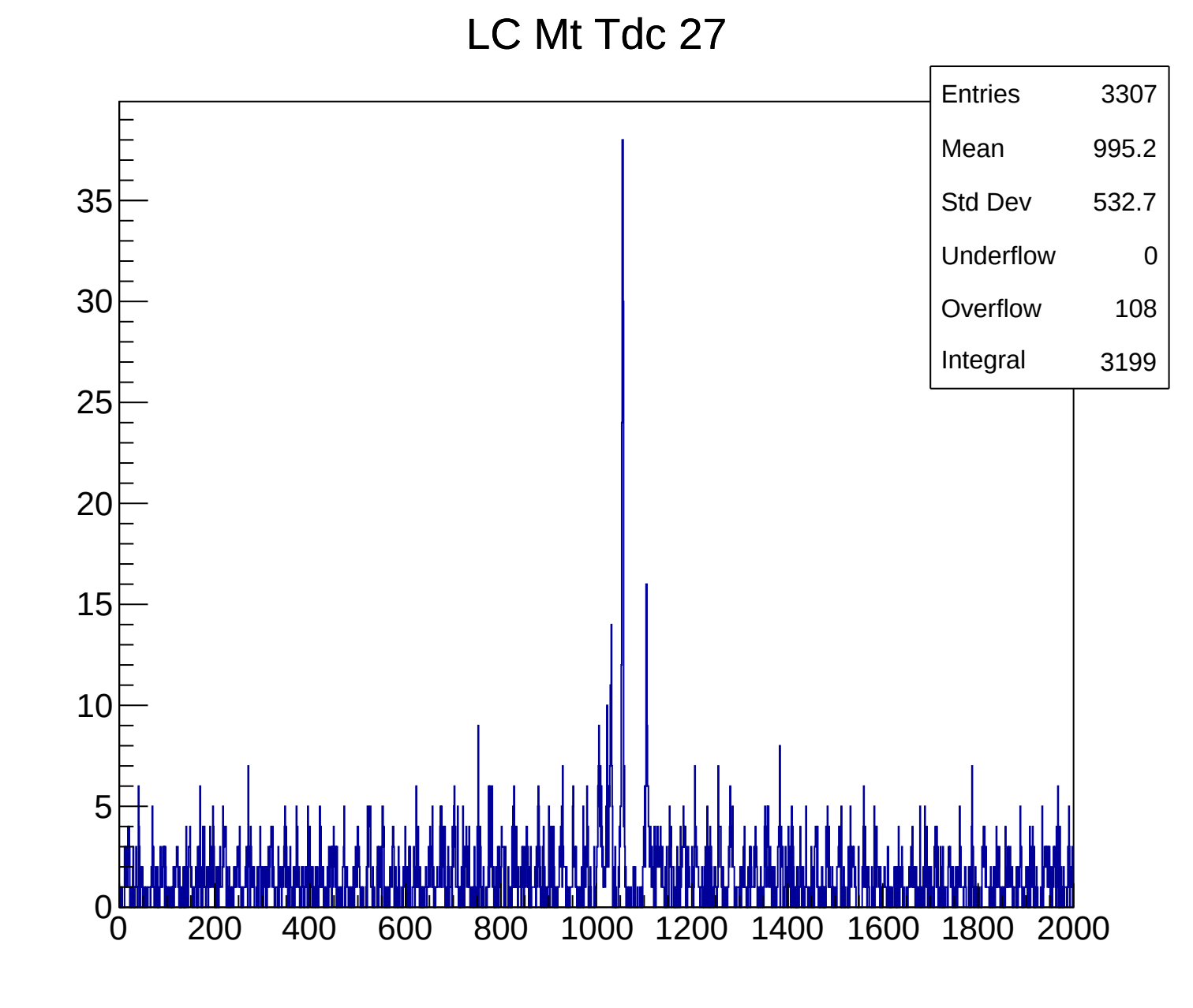
LC Mt Tdc 27
Entries 3307
Mean 995.2
Std Dev 532.7
Underflow 0
Overflow 108
Integral 3199
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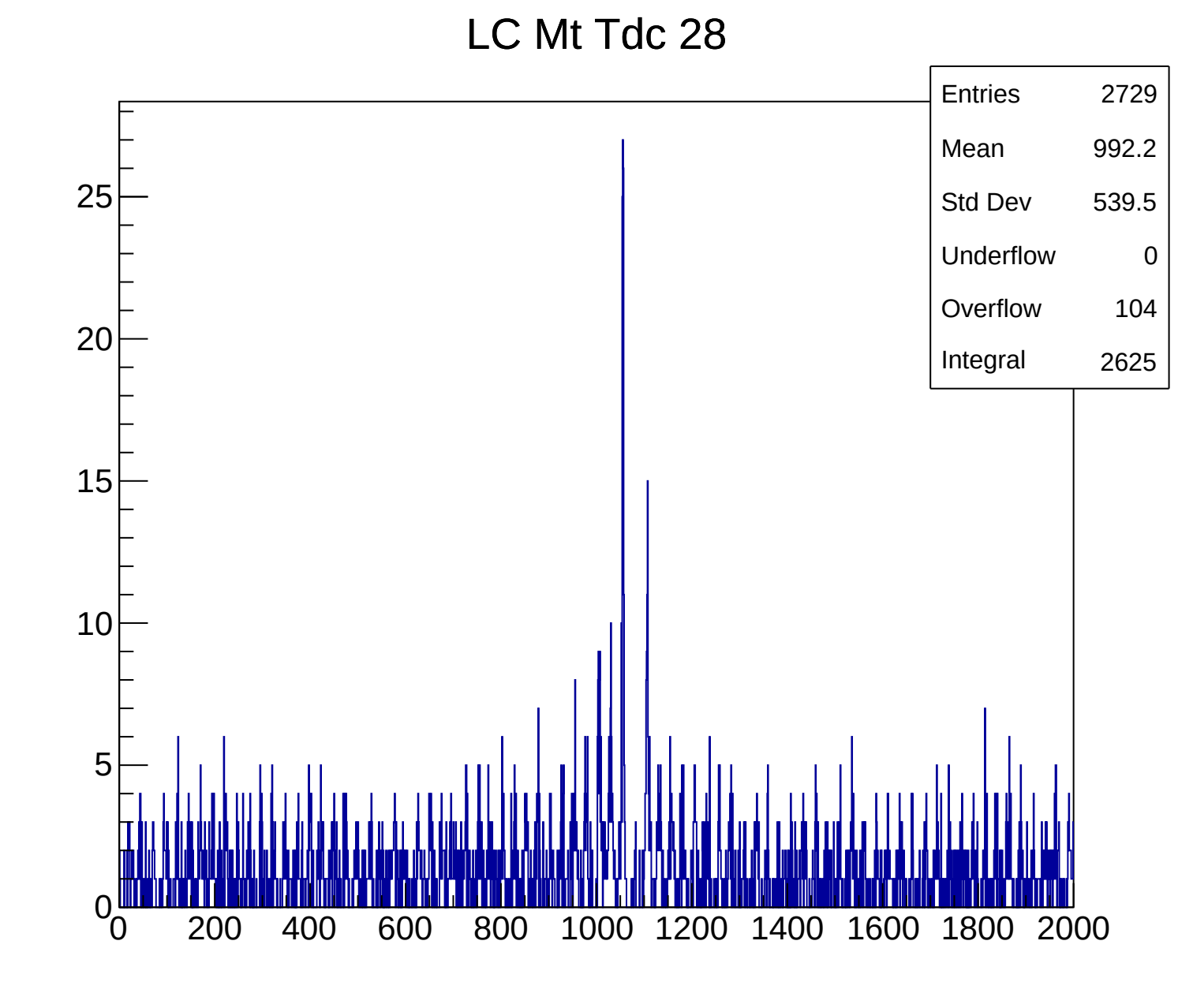
LC Mt Tdc 28
Entries 2729
Mean 992.2
Std Dev 539.5
Underflow 0
Overflow 104
Integral 2625
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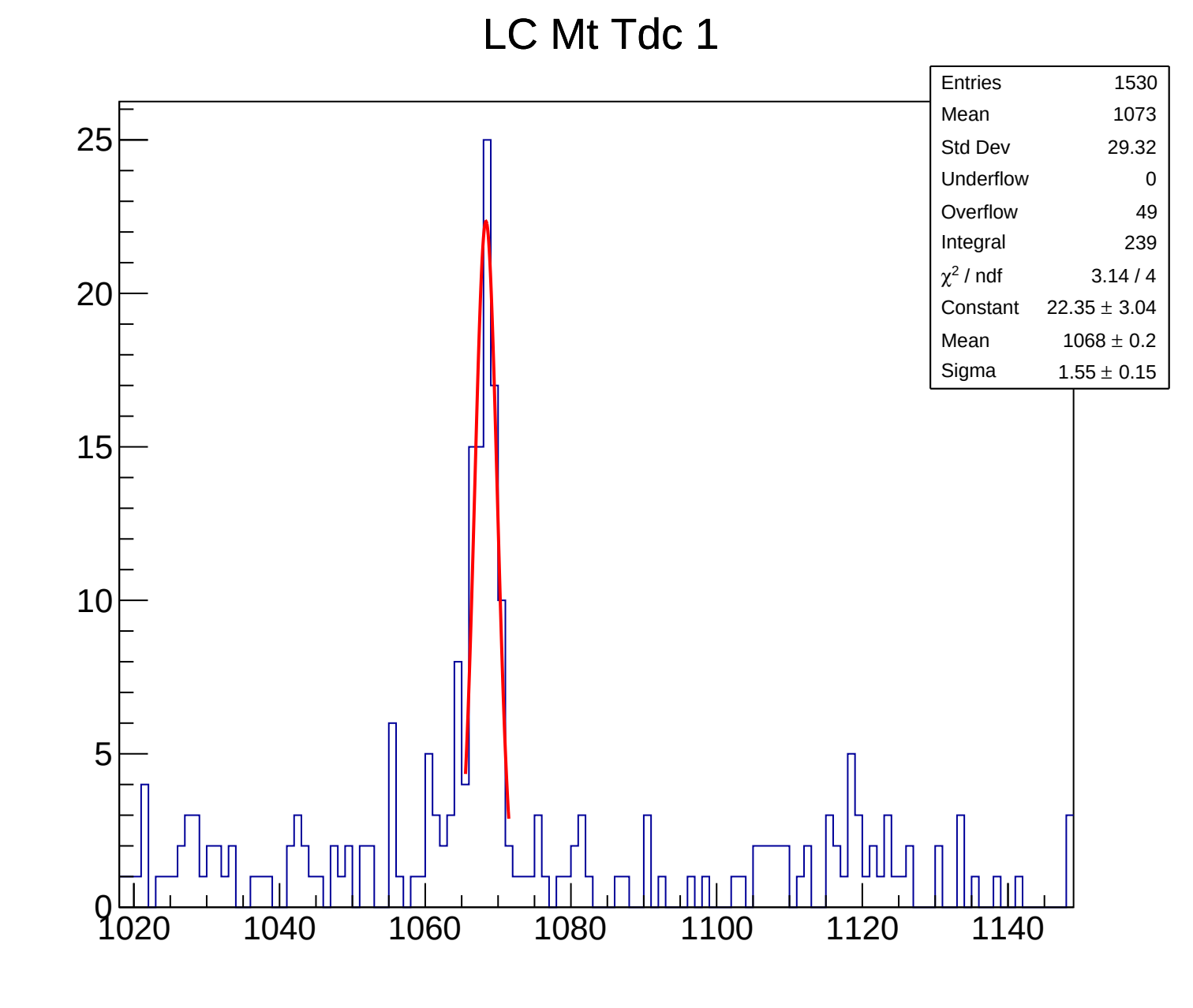
LC Mt Tdc 1
Entries 1530
Mean 1073
Std Dev 29.32
Underflow 0
Overflow 49
Integral 239
χ² / ndf 3.14 / 4
Constant 22.35 ± 3.04
Mean 1068 ± 0.2
Sigma 1.55 ± 0.15
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20
15
10
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1040
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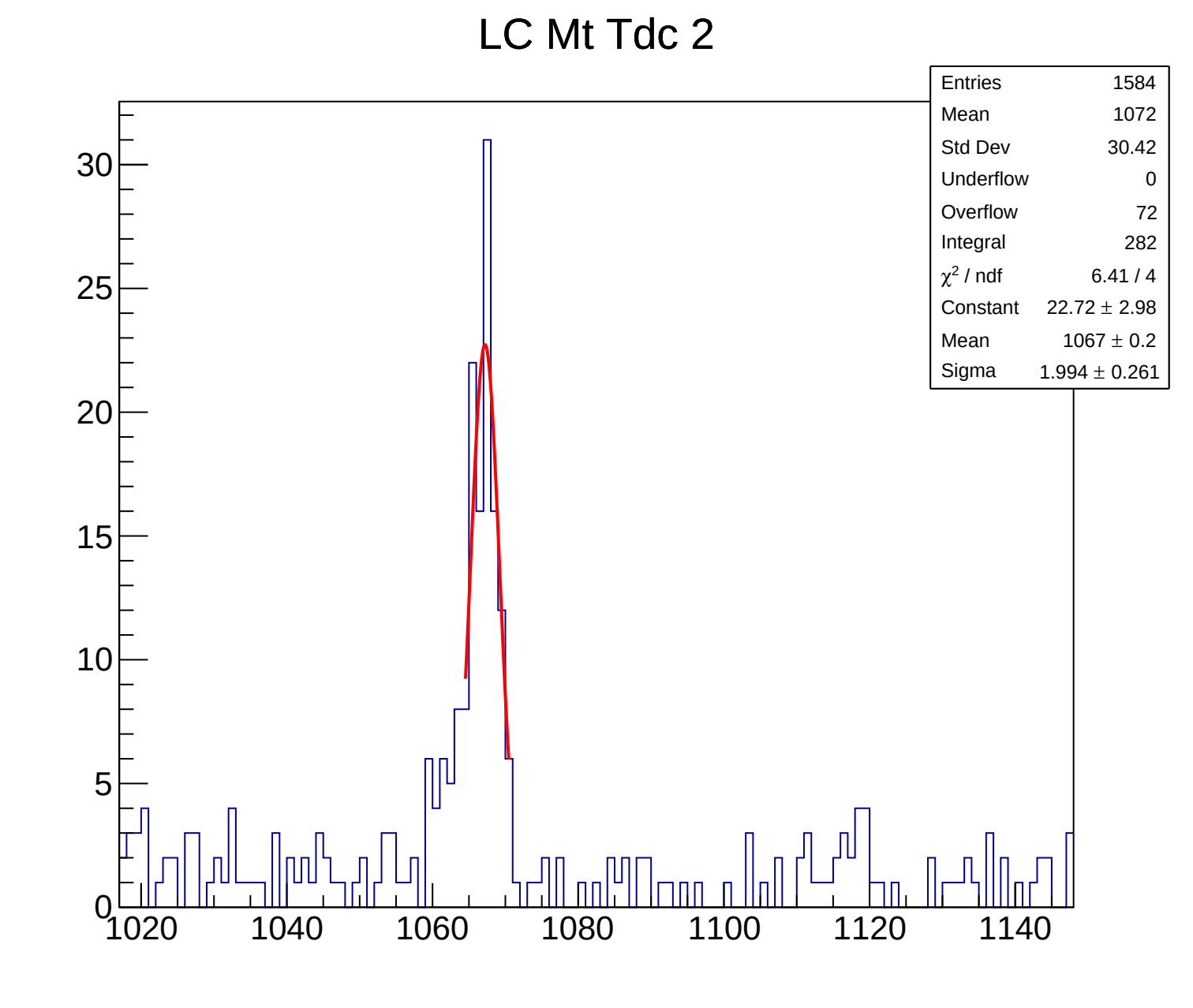
1080
1100
1120
1140


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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1120
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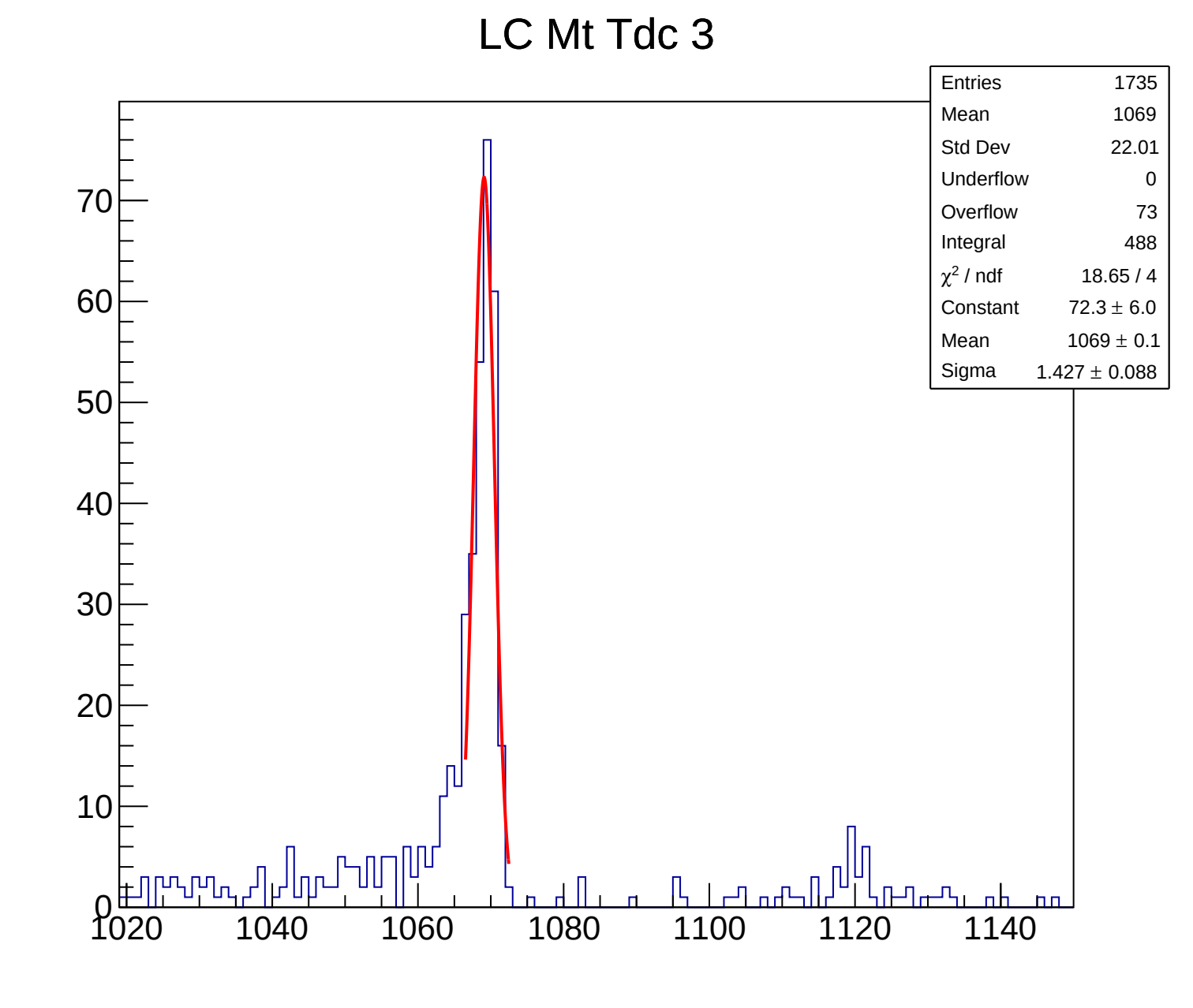
LC Mt Tdc 3
Entries 1735
Mean 1069
Std Dev 22.01
Underflow 0
Overflow 73
Integral 488
χ² / ndf 18.65 / 4
Constant 72.3 ± 6.0
Mean 1069 ± 0.1
Sigma 1.427 ± 0.088
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50
40
30
20
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0
1020
1040
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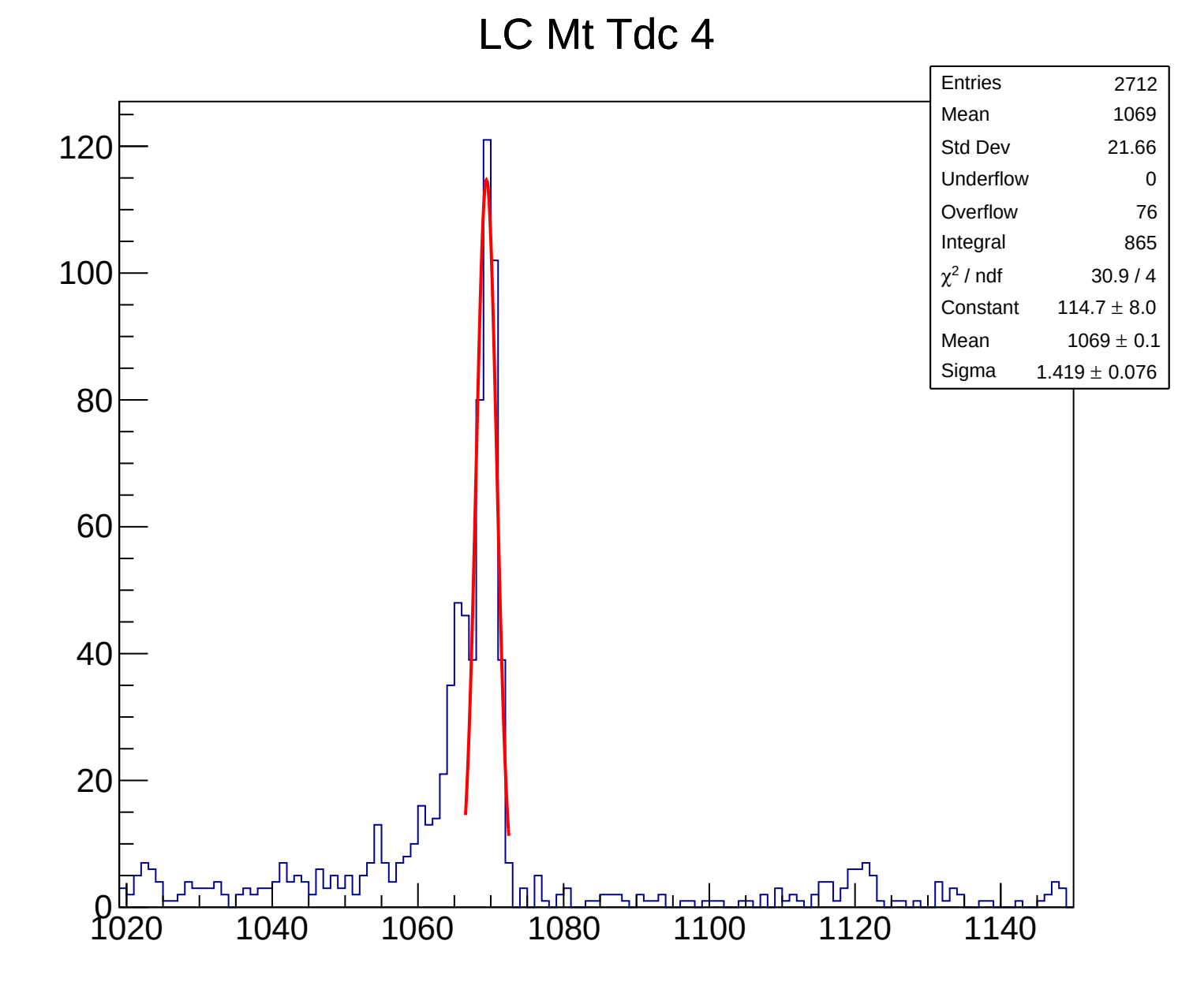
1100
1120
1140


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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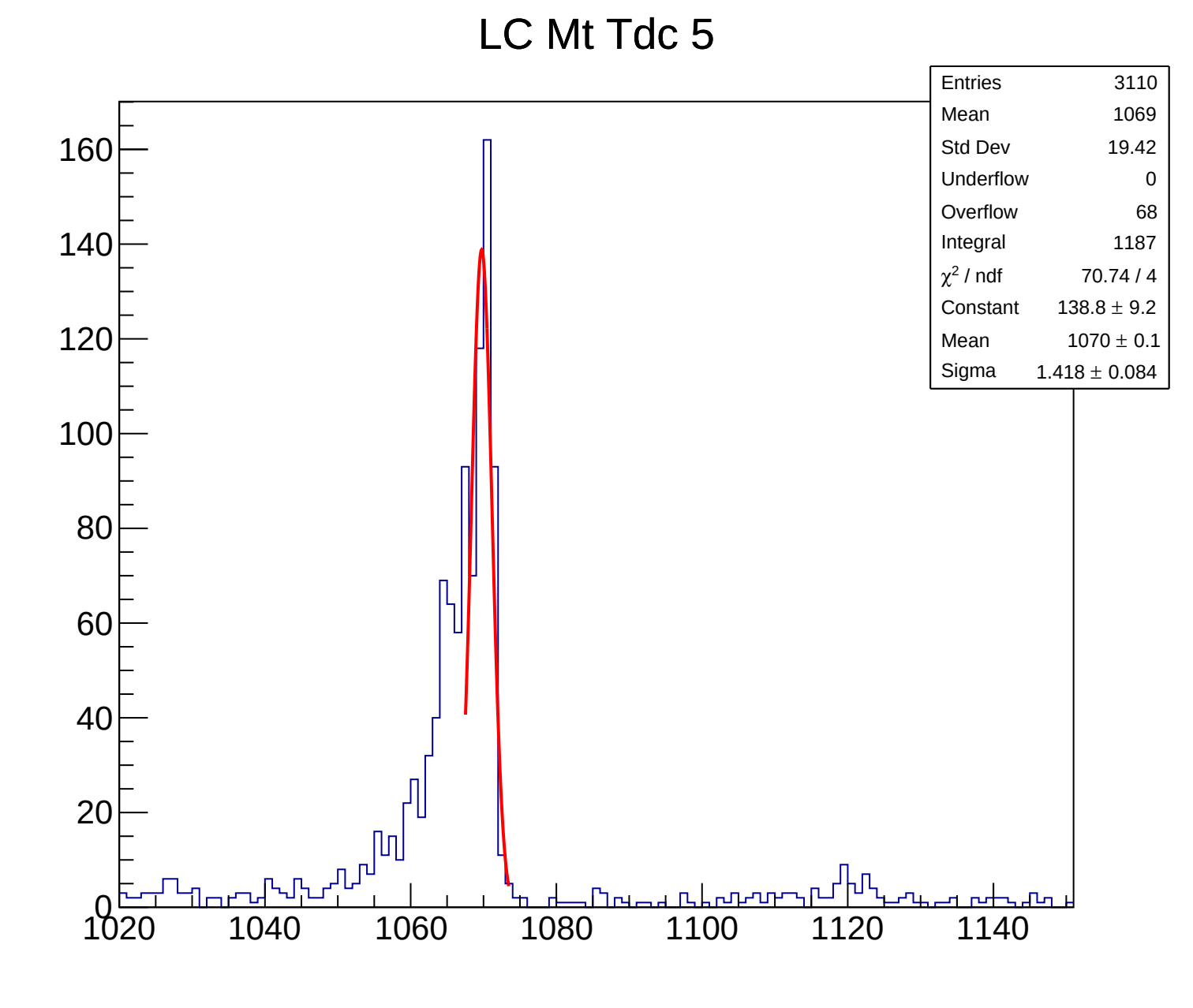
100
80
60
40
20
0
1020
1040
1060
1080
1100
1120
1140


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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120
100
80
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1040
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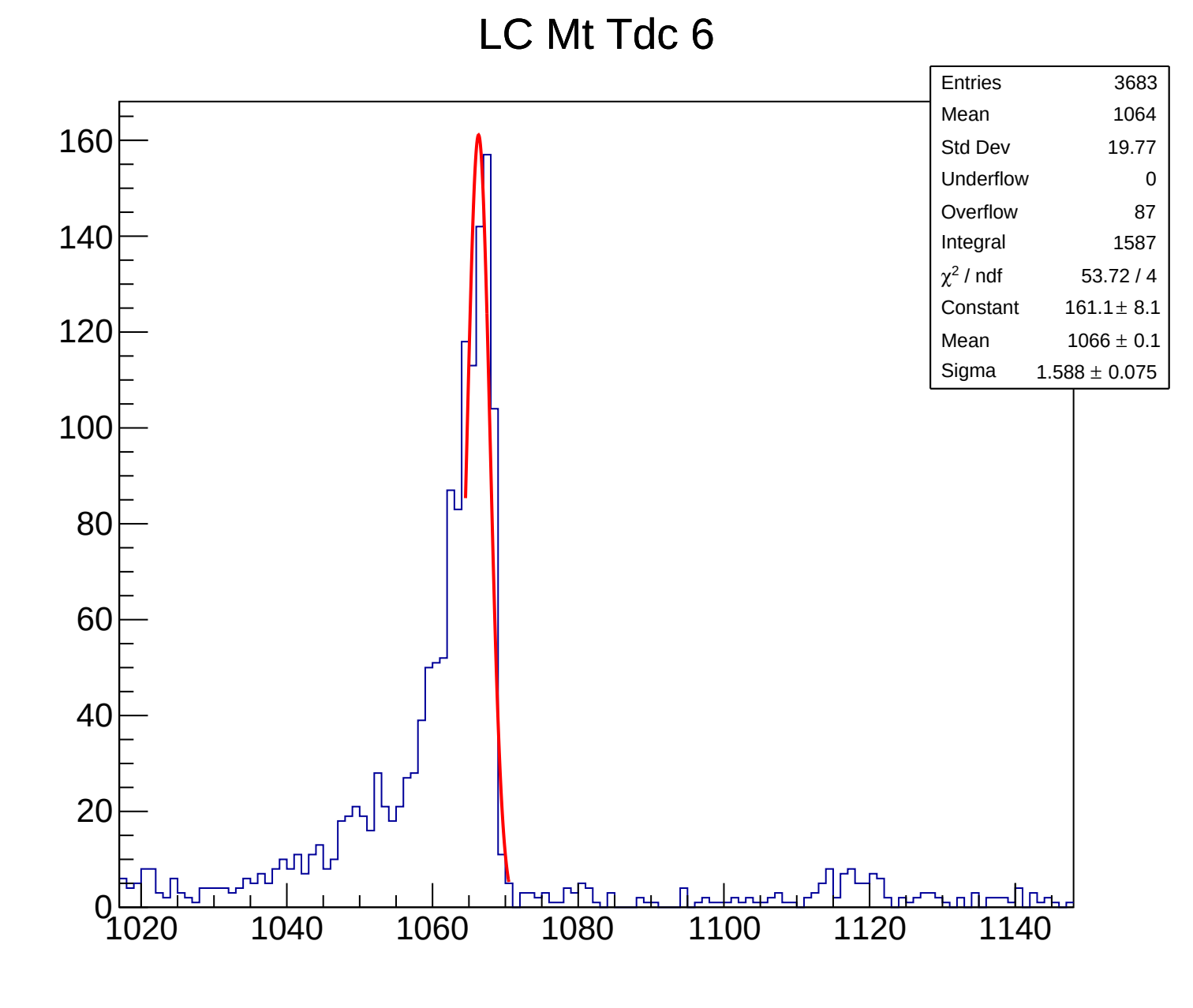
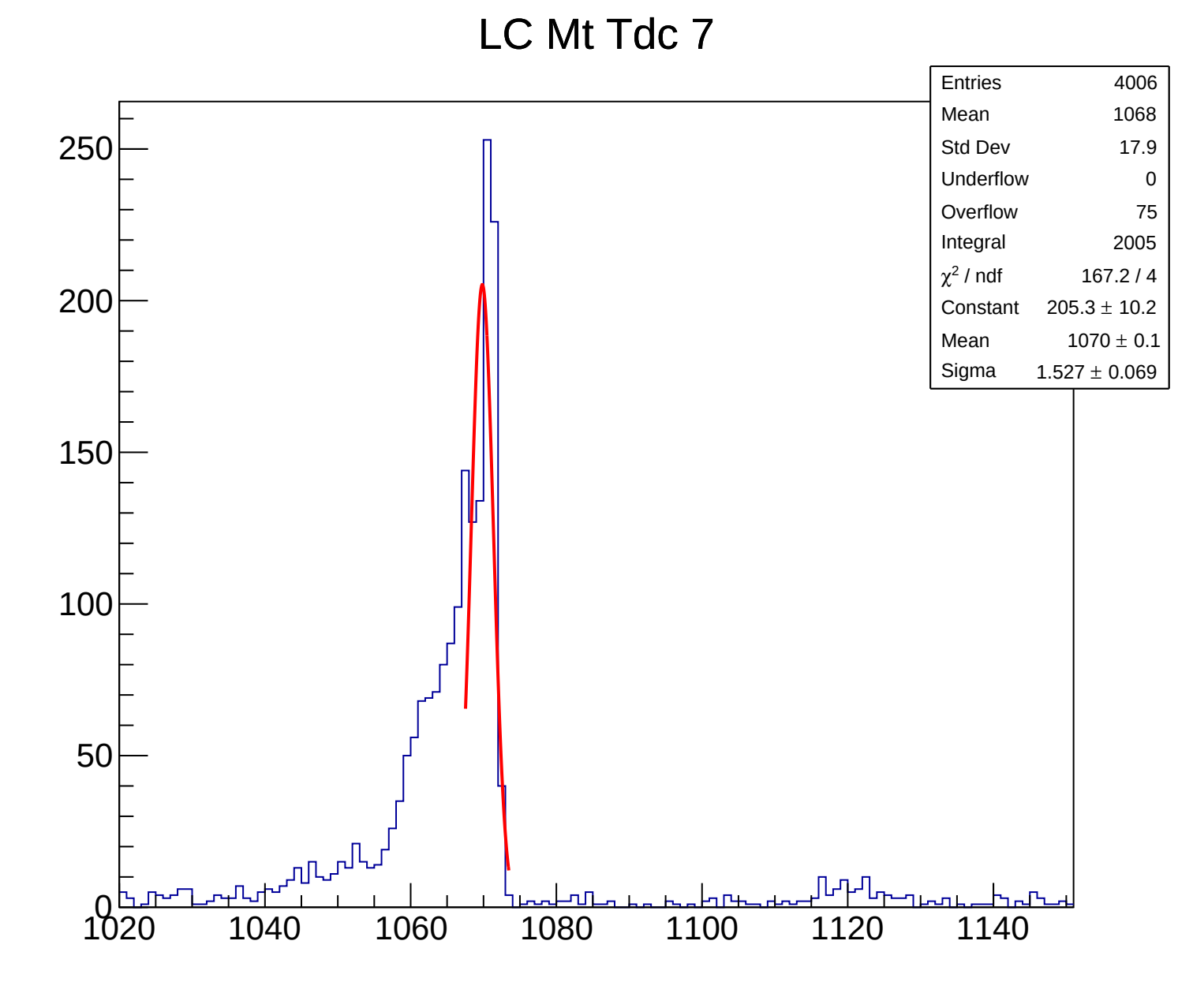
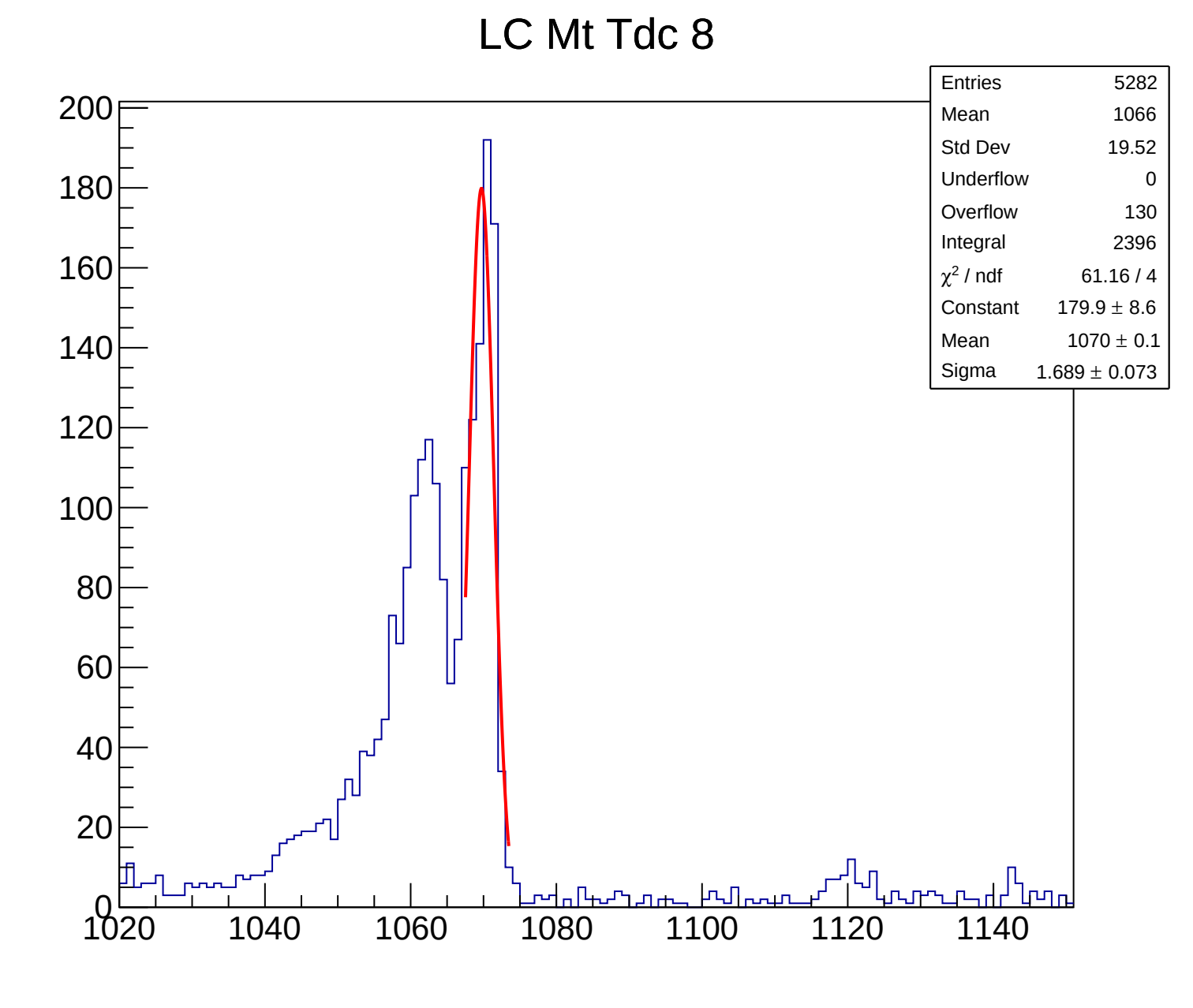
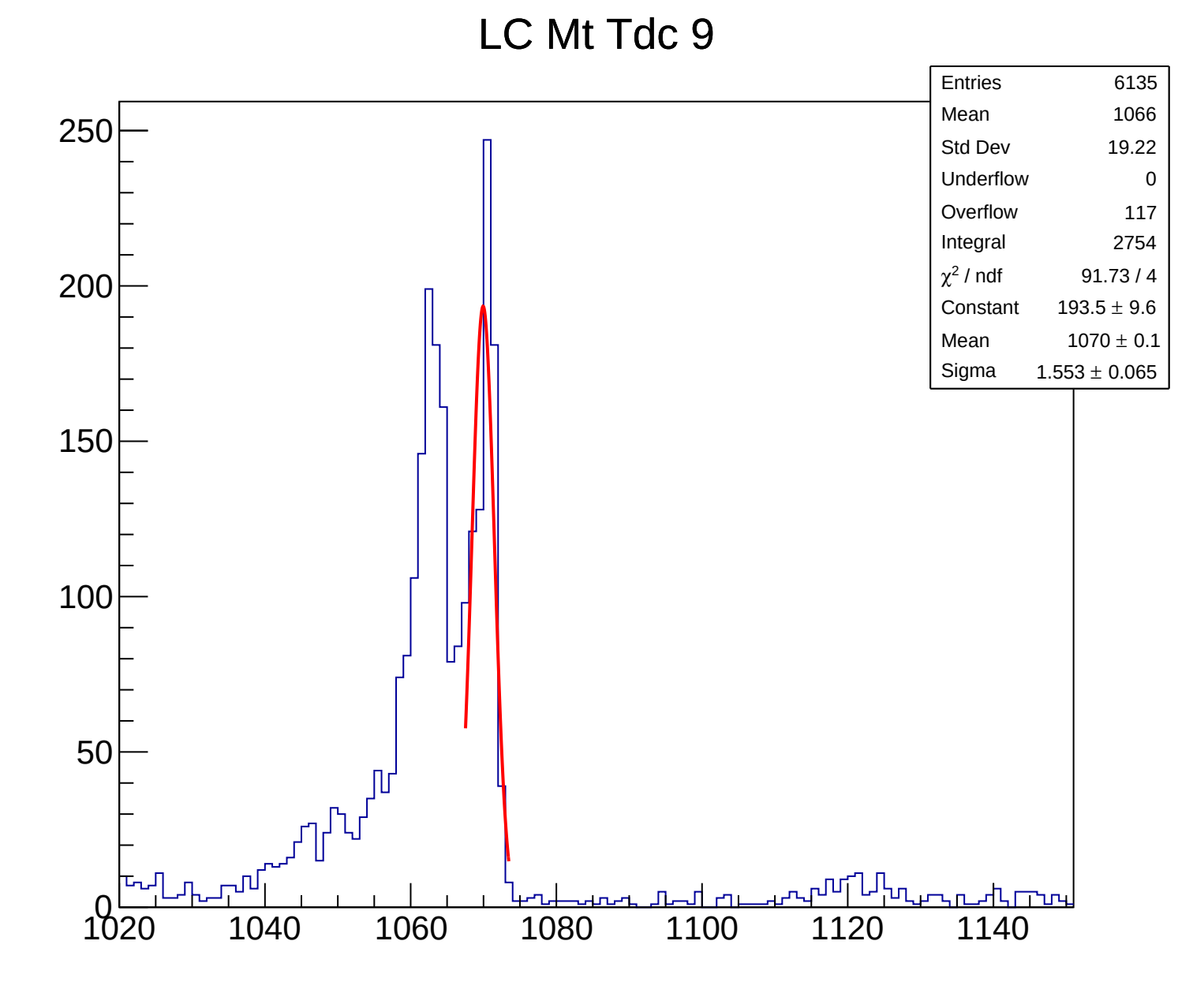
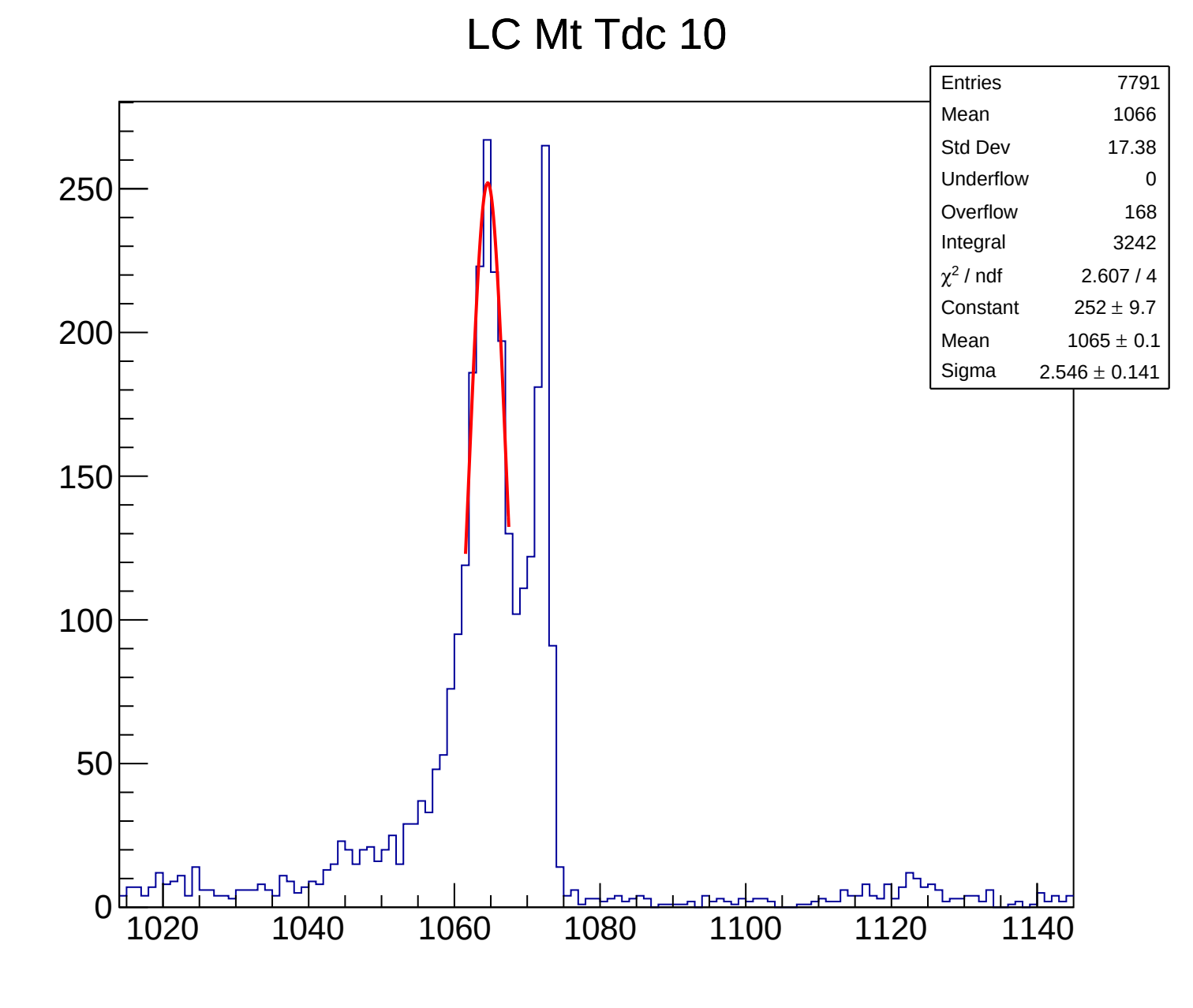
1120
1140

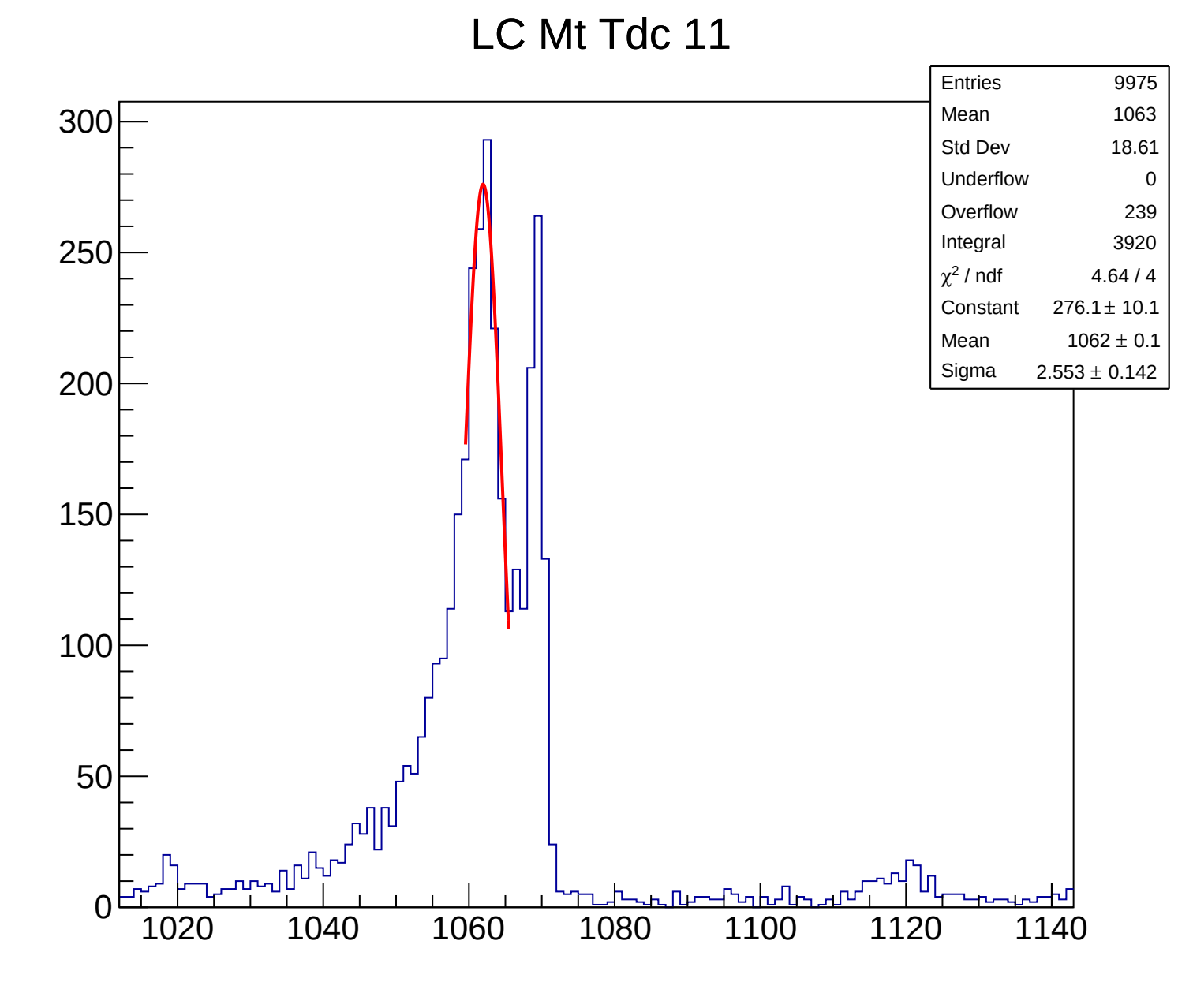

LC Mt Tdc 6
Entries 3683
Mean 1064
Std Dev 19.77
Underflow 0
Overflow 87
Integral 1587
χ² / ndf 53.72 / 4
Constant 161.1 ± 8.1
Mean 1066 ± 0.1
Sigma 1.588 ± 0.075
160
140
120
100
80
60
40
20
0
1020
1040
1060
1080
1100
1120
1140

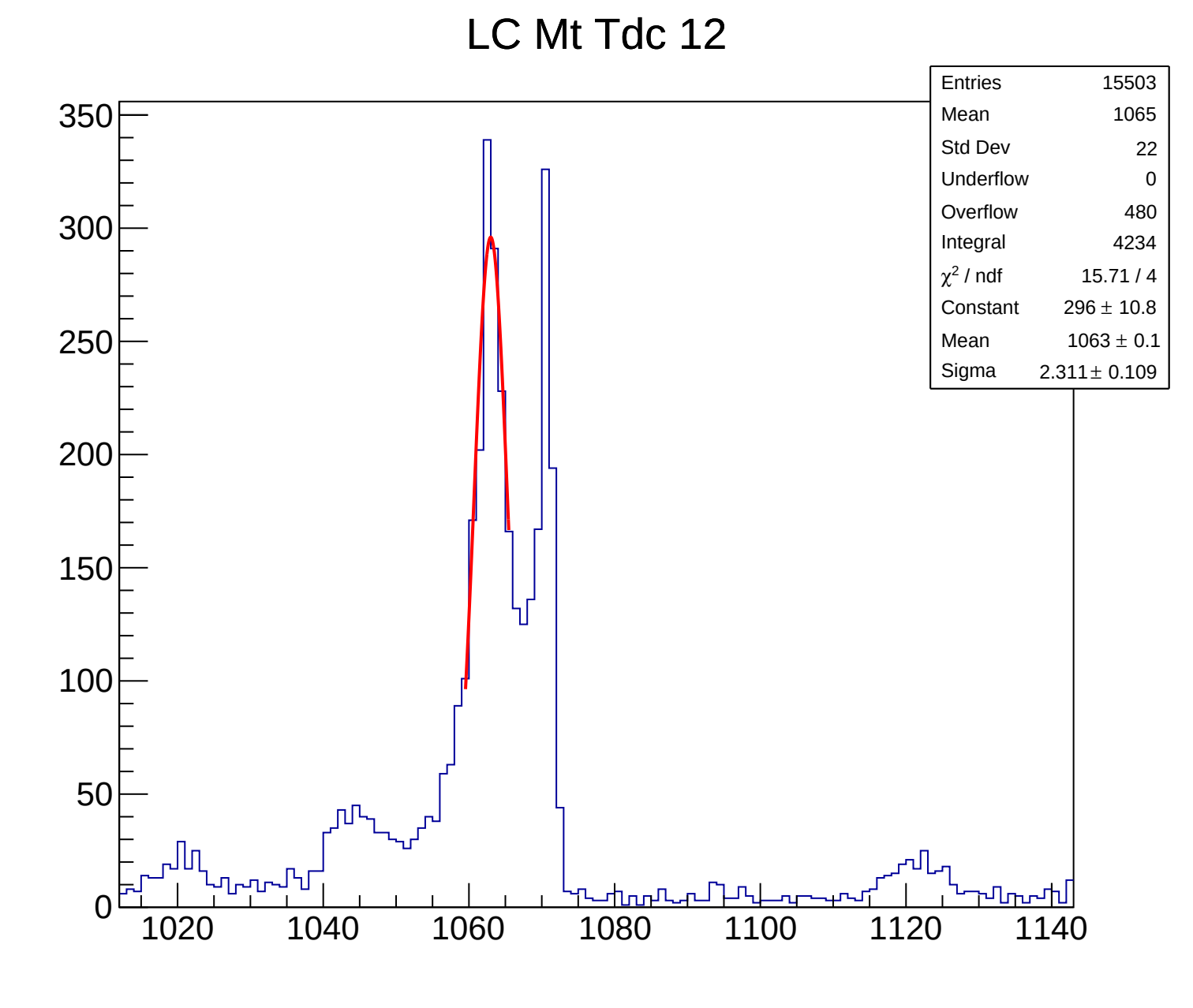

LC Mt Tdc 7
Entries 4006
Mean 1068
Std Dev 17.9
Underflow 0
Overflow 75
Integral 2005
χ² / ndf 167.2 / 4
Constant 205.3 ± 10.2
Mean 1070 ± 0.1
Sigma 1.527 ± 0.069
250
200
150
100
50
0
1020
1040
1060
1080
1100
1120
1140

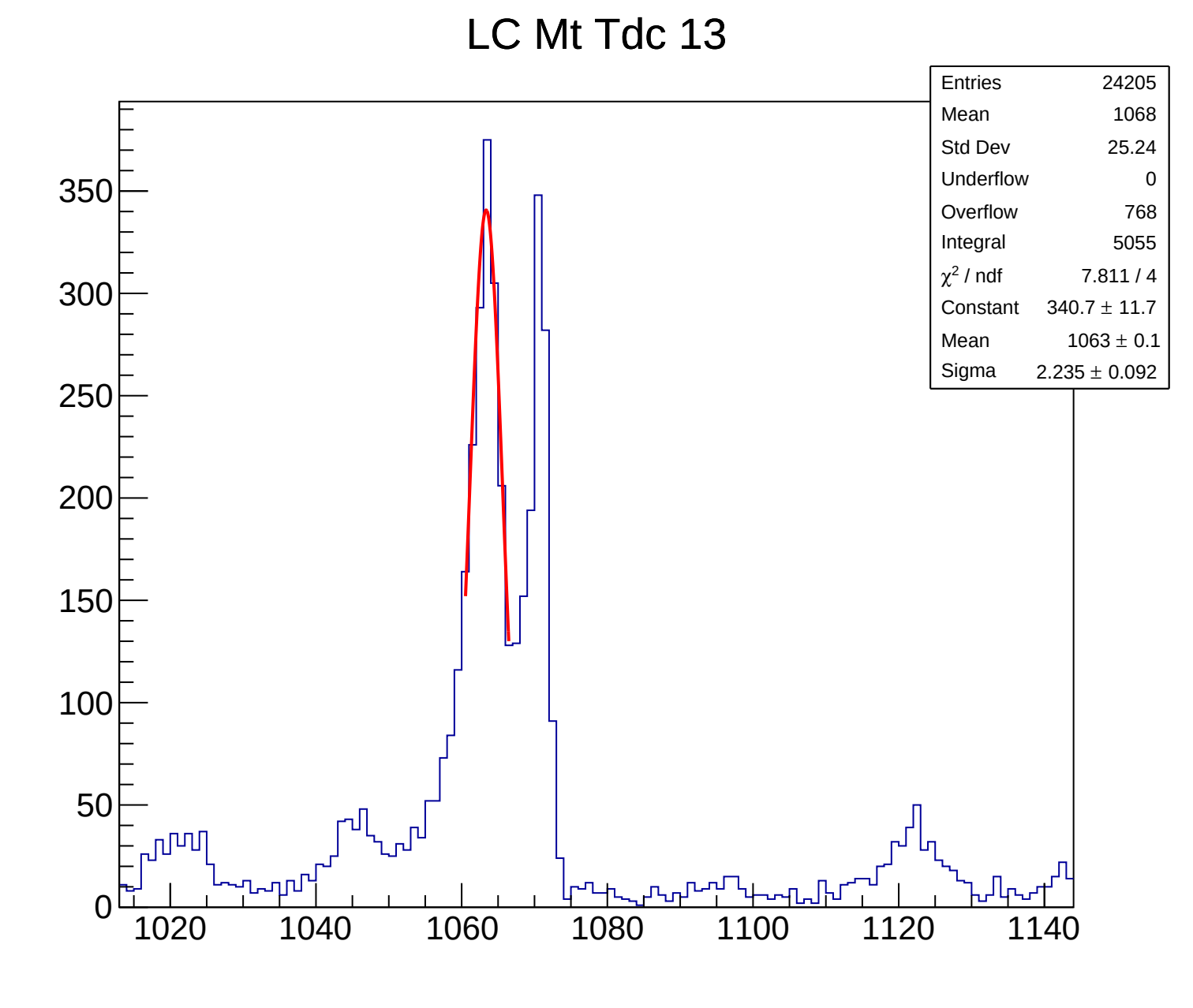

LC Mt Tdc 8
Entries 5282
Mean 1066
Std Dev 19.52
Underflow 0
Overflow 130
Integral 2396
χ² / ndf 61.16 / 4
Constant 179.9 ± 8.6
Mean 1070 ± 0.1
Sigma 1.689 ± 0.073
200
180
160
140
120
100
80
60
40
20
0
1020
1040
1060
1080
1100
1120
1140

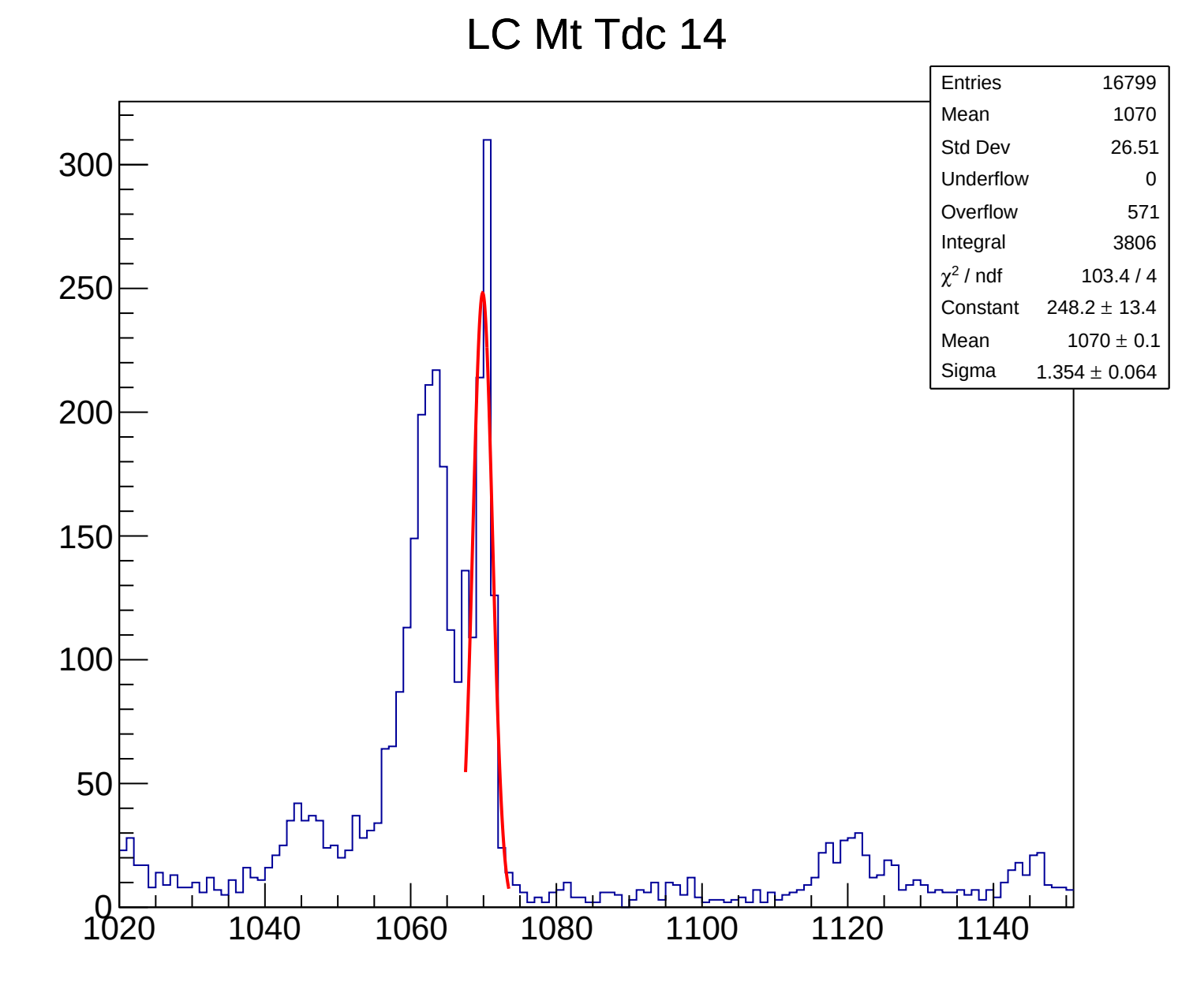

LC Mt Tdc 9
Entries 6135
Mean 1066
Std Dev 19.22
Underflow 0
Overflow 117
Integral 2754
χ² / ndf 91.73 / 4
Constant 193.5 ± 9.6
Mean 1070 ± 0.1
Sigma 1.553 ± 0.065
250
200
150
100
50
0
1020
1040
1060
1080
1100
1120
1140

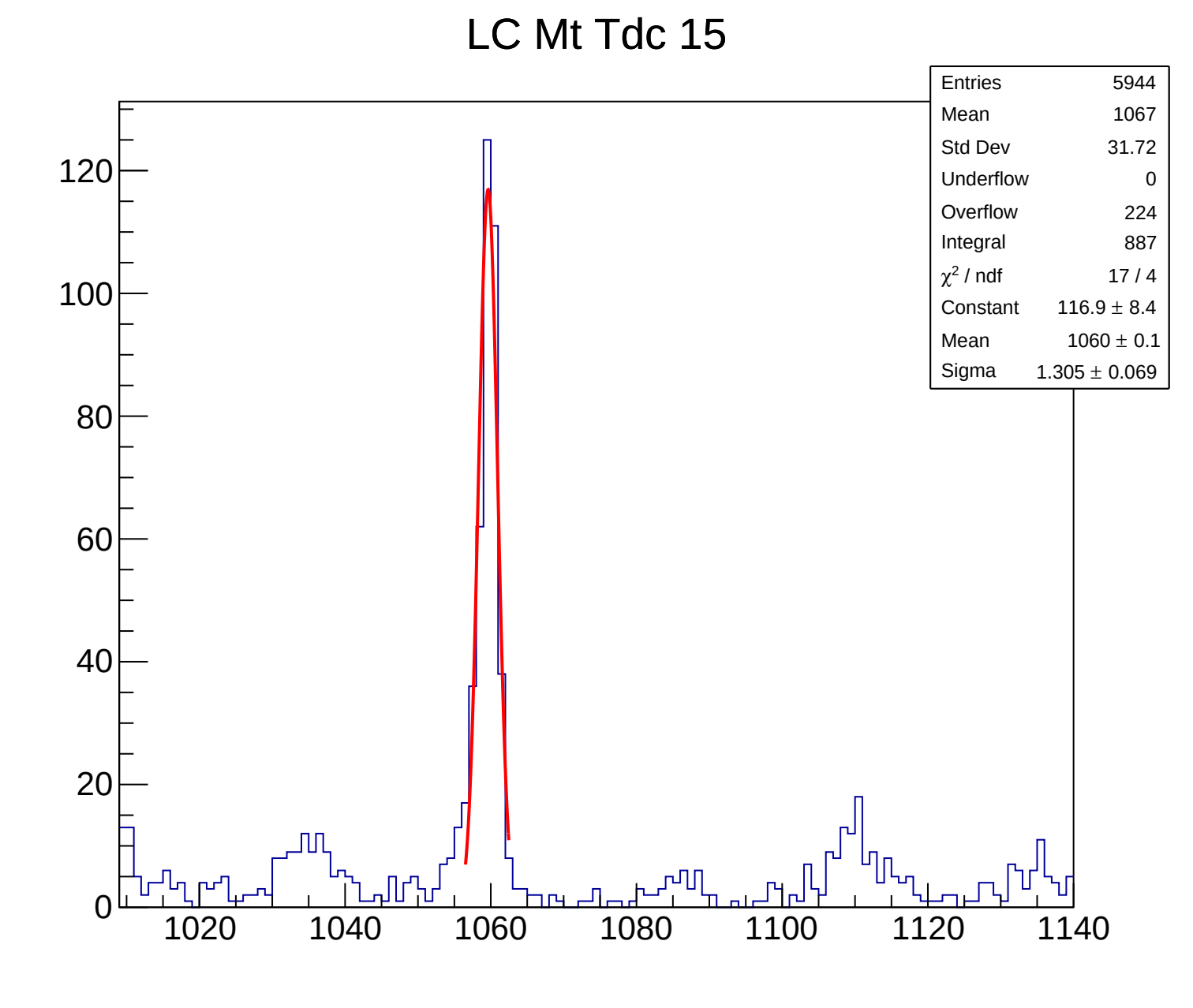

LC Mt Tdc 10
Entries 7791
Mean 1066
Std Dev 17.38
Underflow 0
Overflow 168
Integral 3242
χ² / ndf 2.607 / 4
Constant 252 ± 9.7
Mean 1065 ± 0.1
Sigma 2.546 ± 0.141
250
200
150
100
50
0
1020
1040
1060
1080
1100
1120
1140

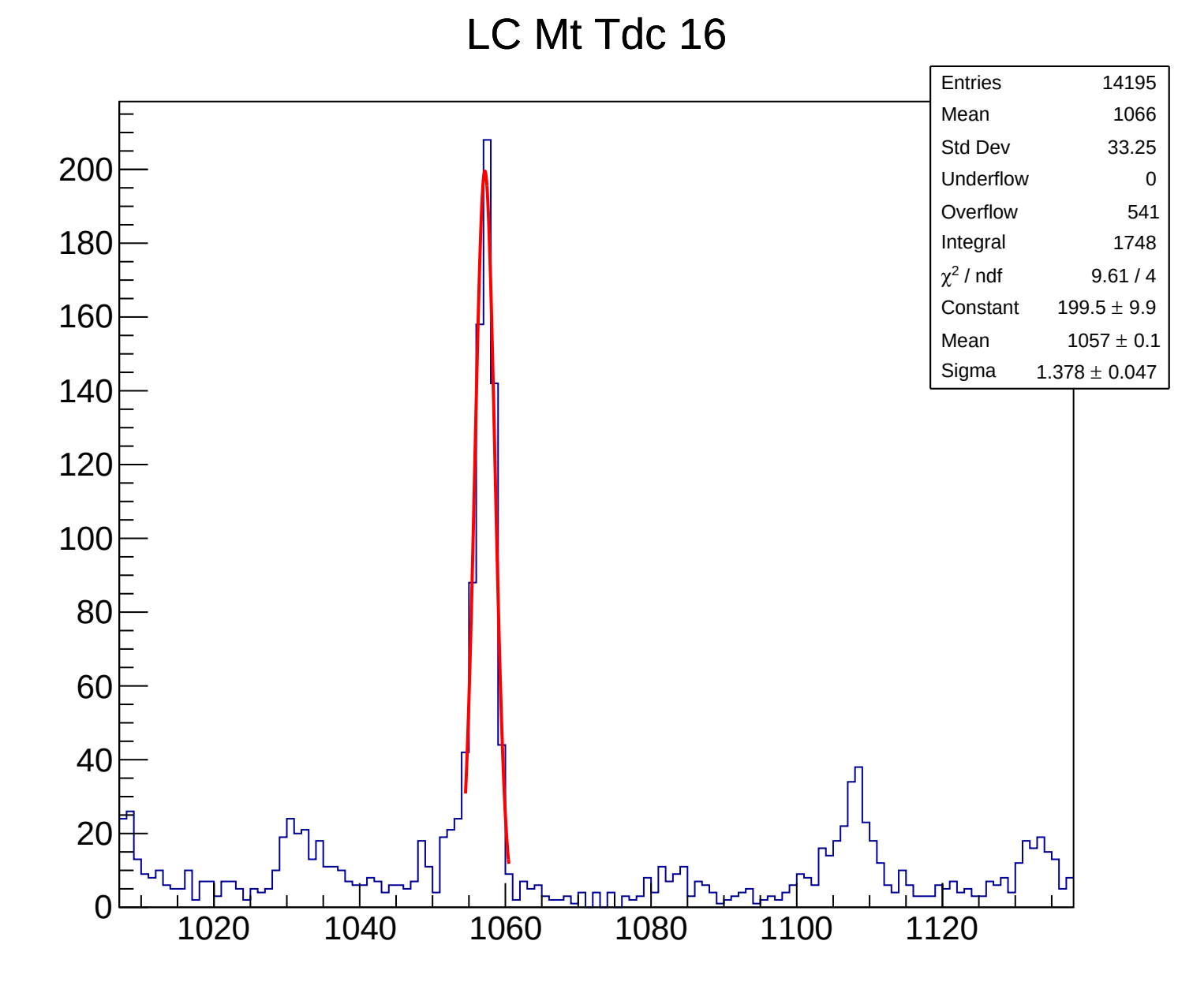

LC Mt Tdc 11
Entries 9975
Mean 1063
Std Dev 18.61
Underflow 0
Overflow 239
Integral 3920
χ² / ndf 4.64 / 4
Constant 276.1 ± 10.1
Mean 1062 ± 0.1
Sigma 2.553 ± 0.142
300
250
200
150
100
50
0
1020
1040
1060
1080
1100
1120
1140

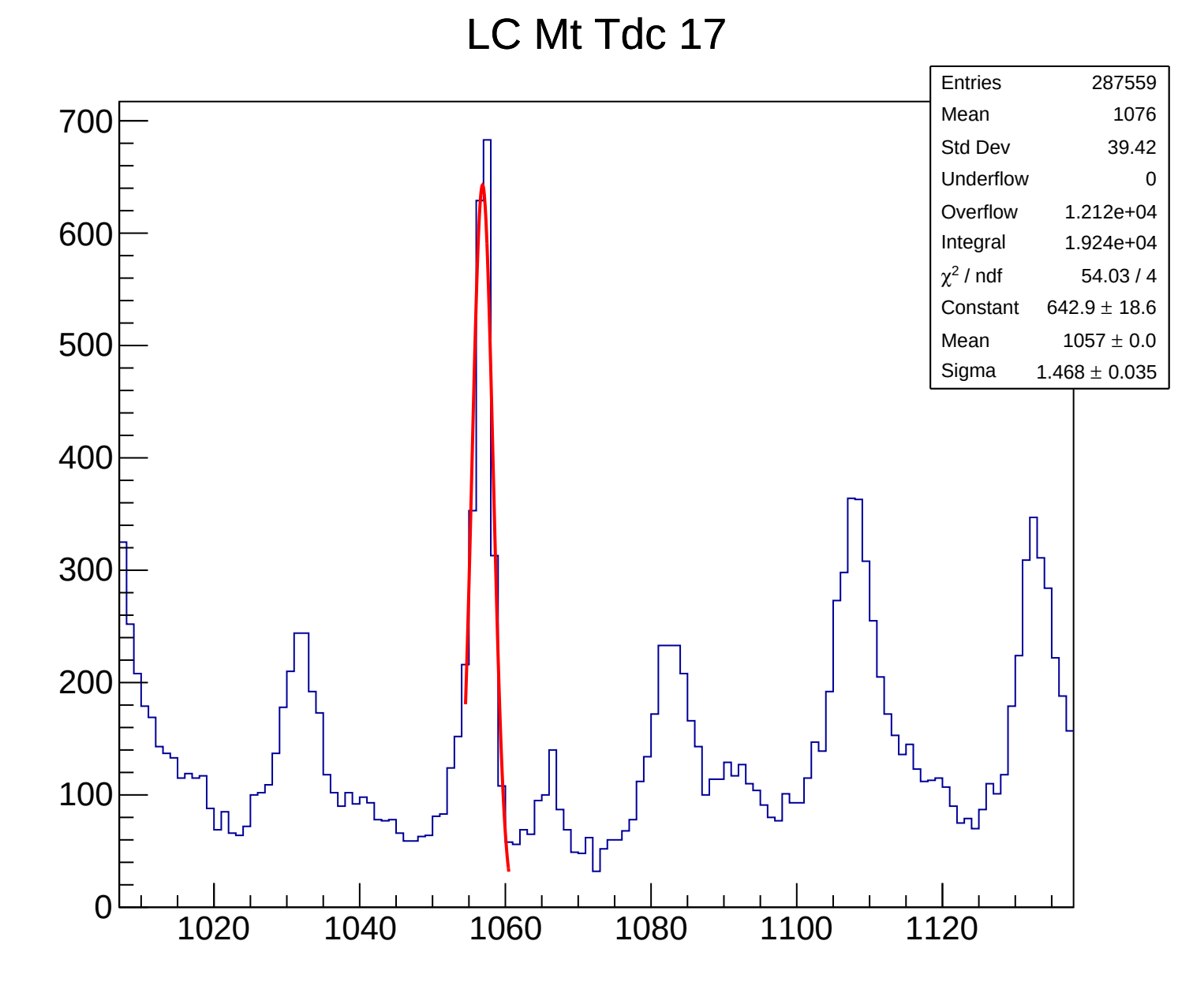

LC Mt Tdc 12
Entries 15503
Mean 1065
Std Dev 22
Underflow 0
Overflow 480
Integral 4234
χ² / ndf 15.71 / 4
Constant 296 ± 10.8
Mean 1063 ± 0.1
Sigma 2.311 ± 0.109
350
300
250
200
150
100
50
0
1020
1040
1060
1080
1100
1120
1140

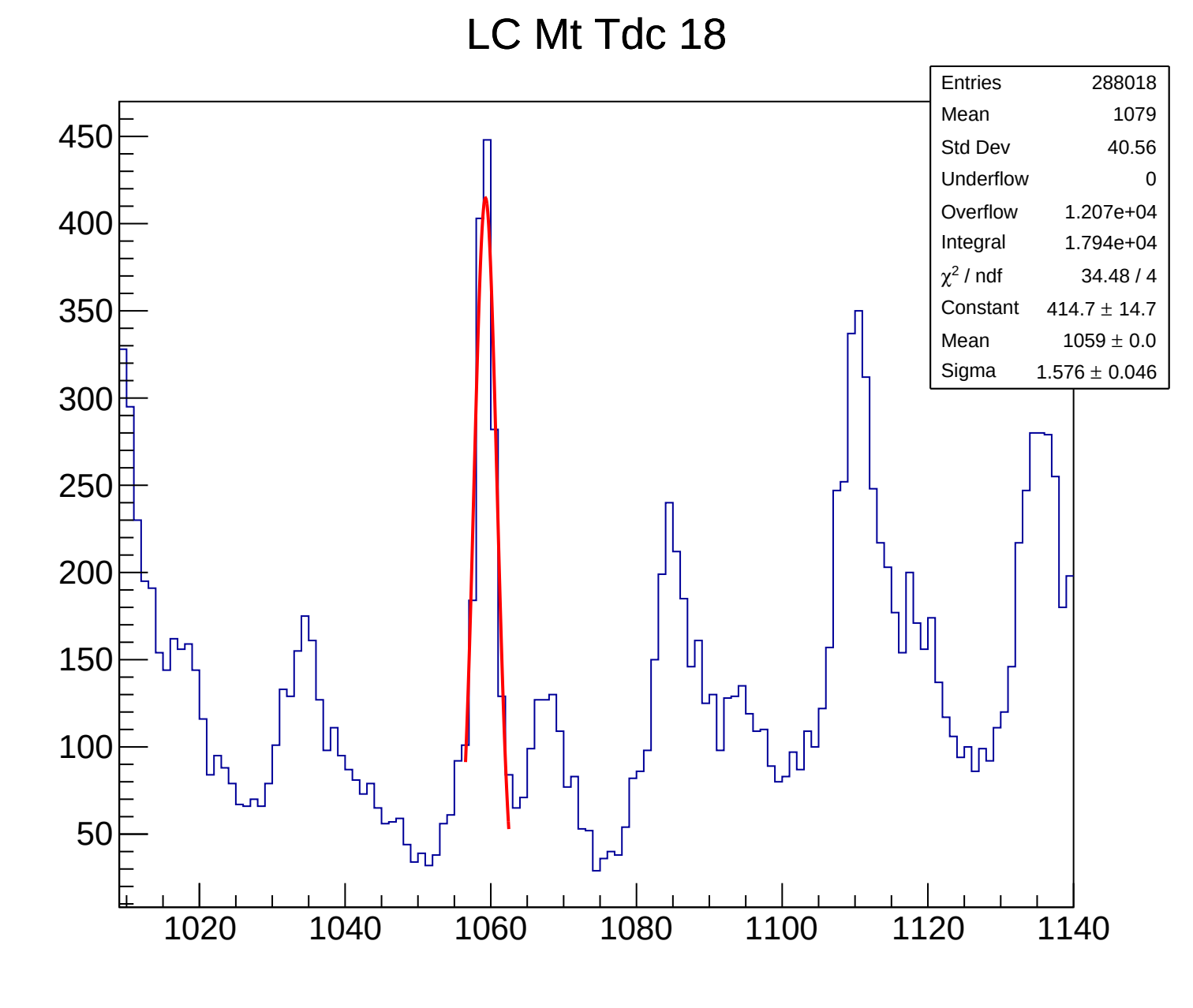

LC Mt Tdc 13
Entries 24205
Mean 1068
Std Dev 25.24
Underflow 0
Overflow 768
Integral 5055
χ² / ndf 7.811 / 4
Constant 340.7 ± 11.7
Mean 1063 ± 0.1
Sigma 2.235 ± 0.092
350
300
250
200
150
100
50
0
1020
1040
1060
1080
1100
1120
1140

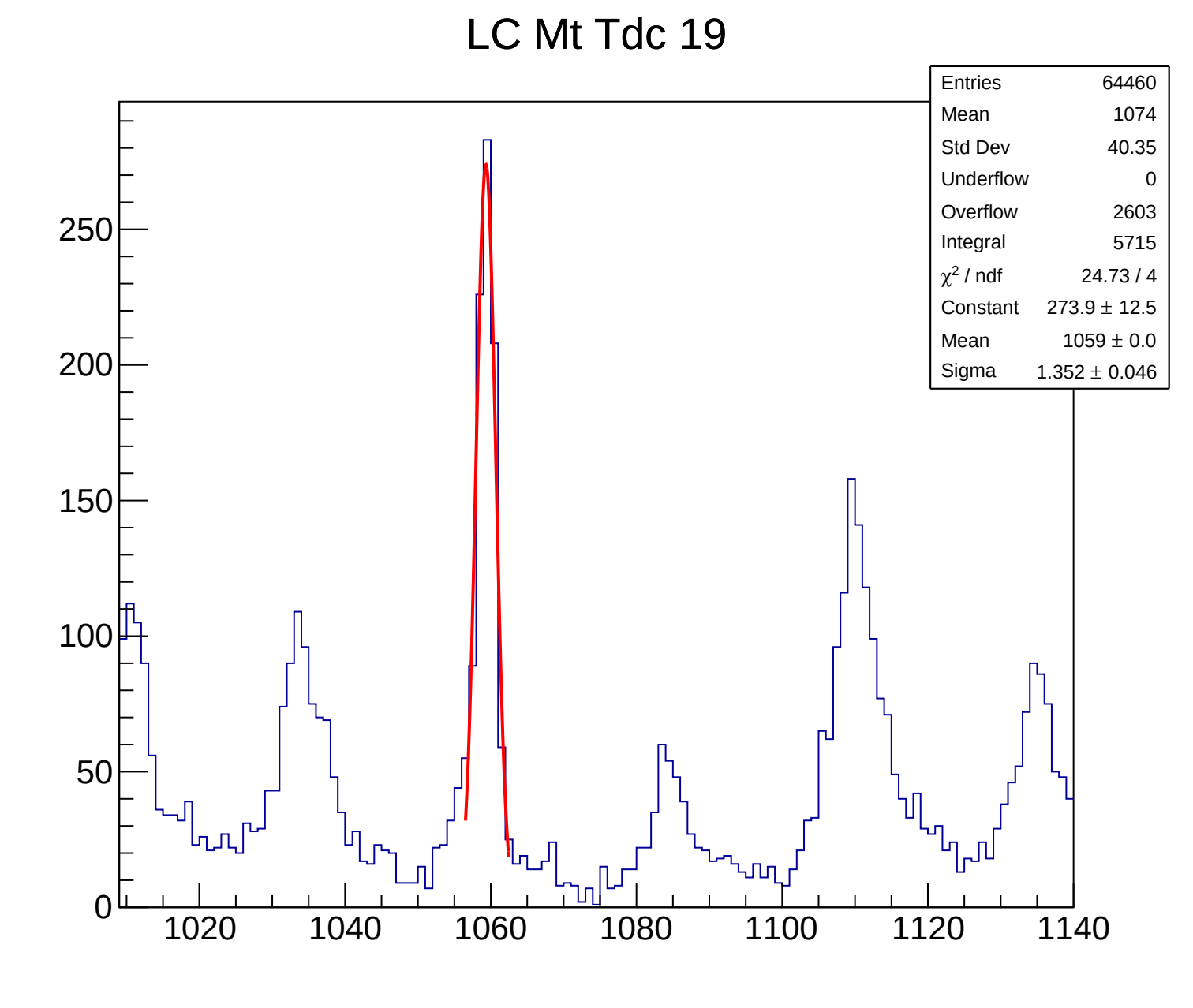

LC Mt Tdc 14
Entries 16799
Mean 1070
Std Dev 26.51
Underflow 0
Overflow 571
Integral 3806
χ² / ndf 103.4 / 4
Constant 248.2 ± 13.4
Mean 1070 ± 0.1
Sigma 1.354 ± 0.064
300
250
200
150
100
50
0
1020
1040
1060
1080
1100
1120
1140

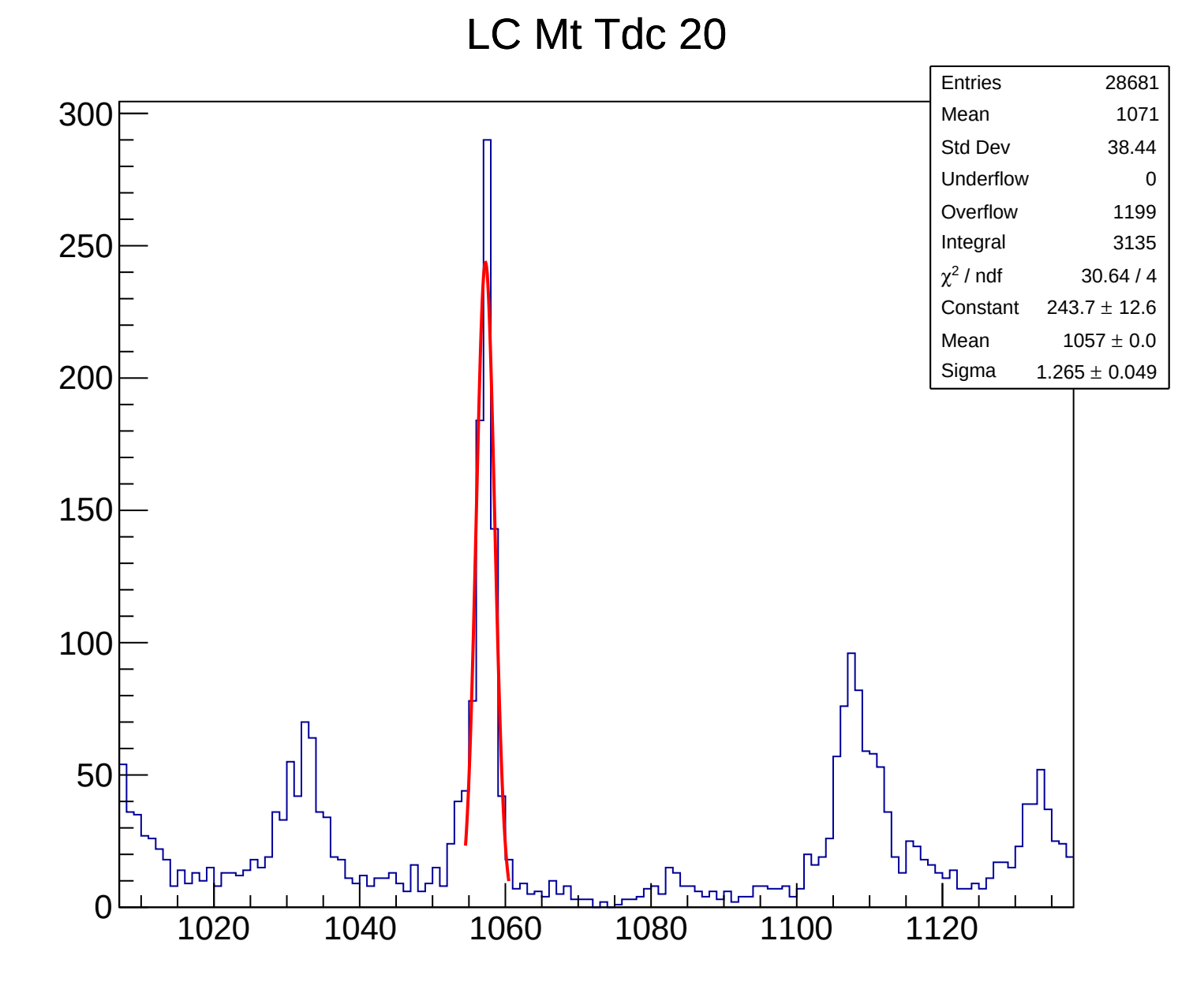

LC Mt Tdc 15
Entries 5944
Mean 1067
Std Dev 31.72
Underflow 0
Overflow 224
Integral 887
χ² / ndf 17 / 4
Constant 116.9 ± 8.4
Mean 1060 ± 0.1
Sigma 1.305 ± 0.069
120
100
80
60
40
20
0
1020
1040
1060
1080
1100
1120
1140

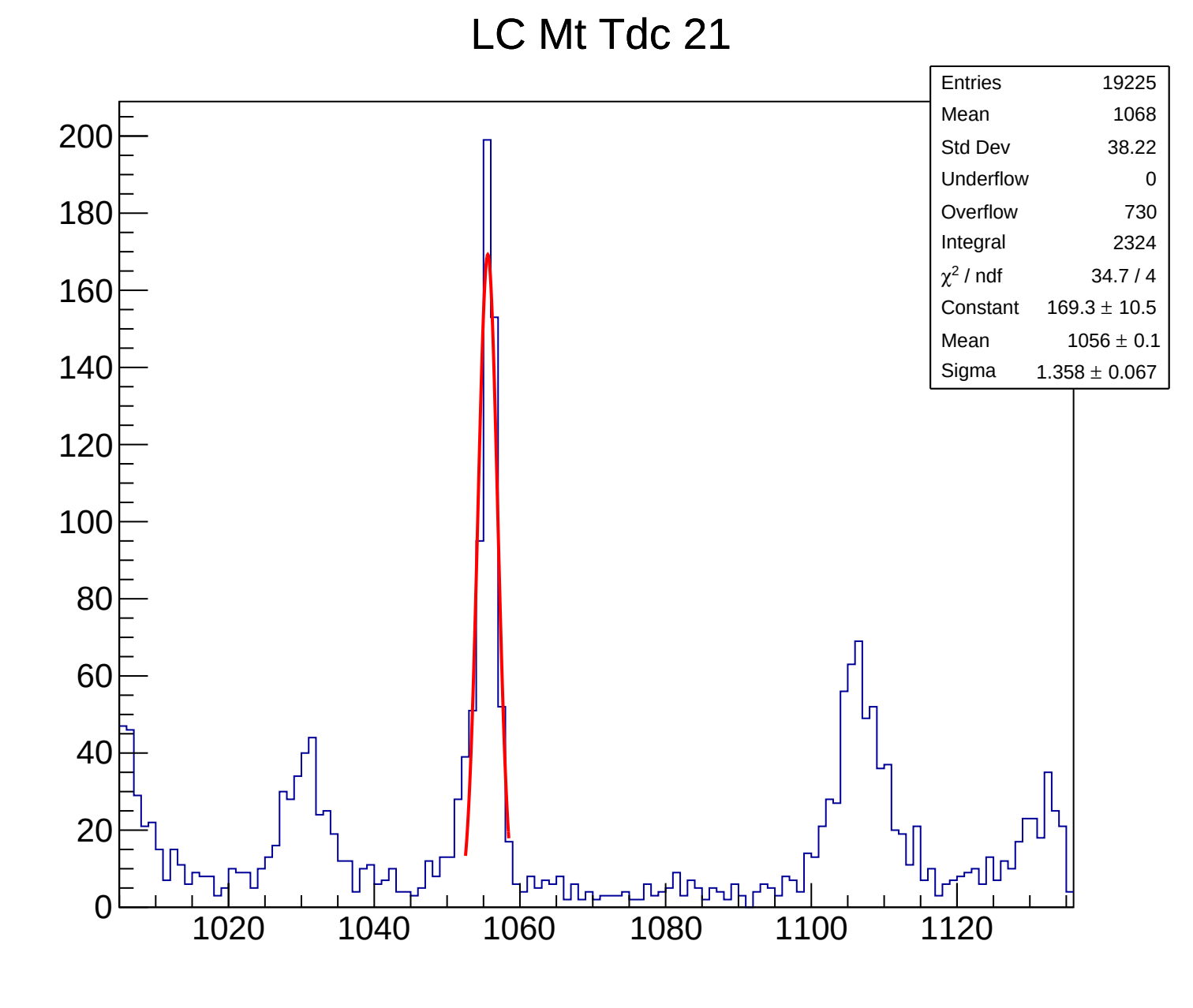

LC Mt Tdc 16
Entries 14195
Mean 1066
Std Dev 33.25
Underflow 0
Overflow 541
Integral 1748
χ² / ndf 9.61 / 4
Constant 199.5 ± 9.9
Mean 1057 ± 0.1
Sigma 1.378 ± 0.047
200
180
160
140
120
100
80
60
40
20
0
1020
1040
1060
1080
1100
1120

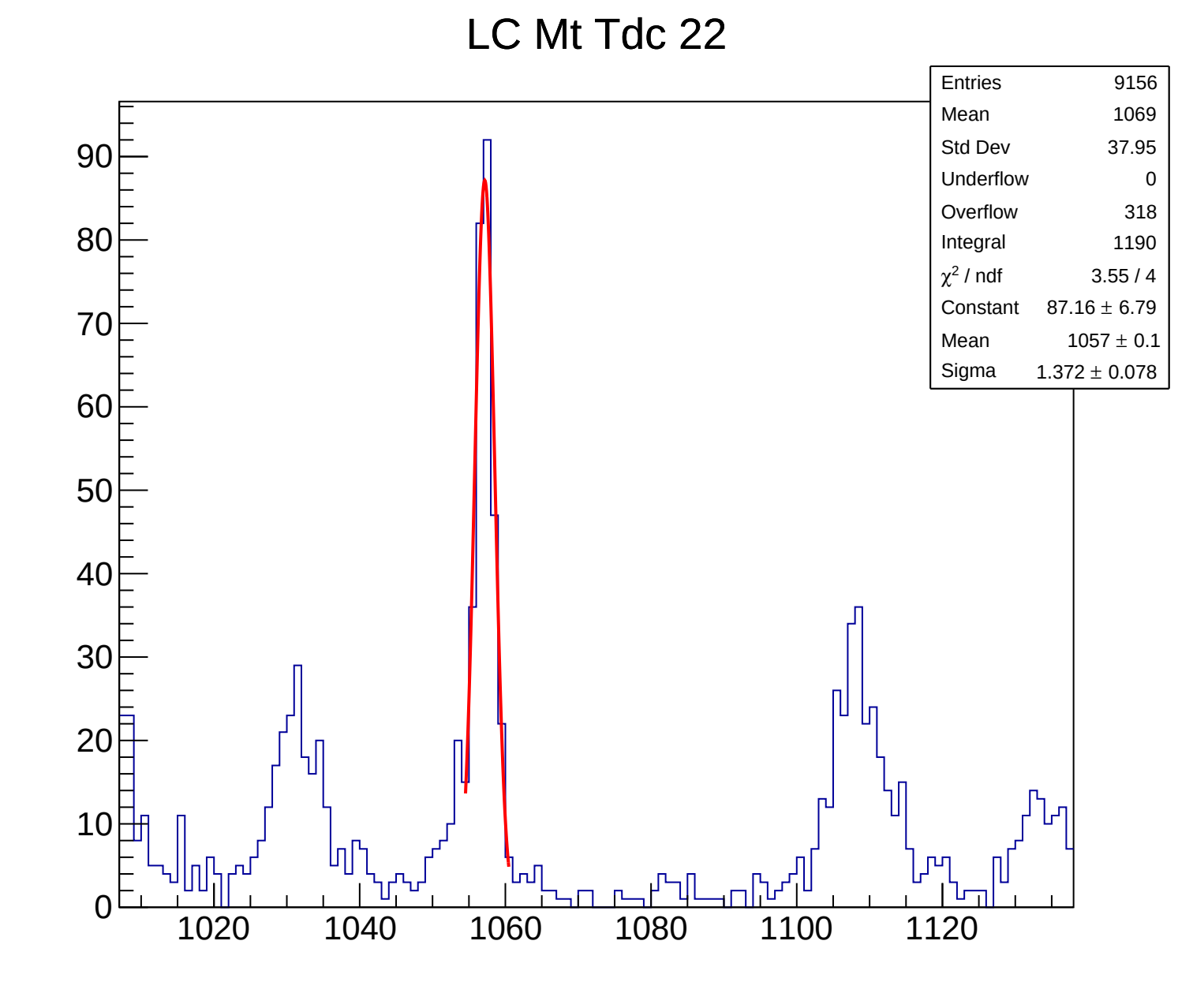

LC Mt Tdc 17
Entries 287559
Mean 1076
Std Dev 39.42
Underflow 0
Overflow 1.212e+04
Integral 1.924e+04
χ² / ndf 54.03 / 4
Constant 642.9 ± 18.6
Mean 1057 ± 0.0
Sigma 1.468 ± 0.035
700
600
500
400
300
200
100
0
1020
1040
1060
1080
1100
1120

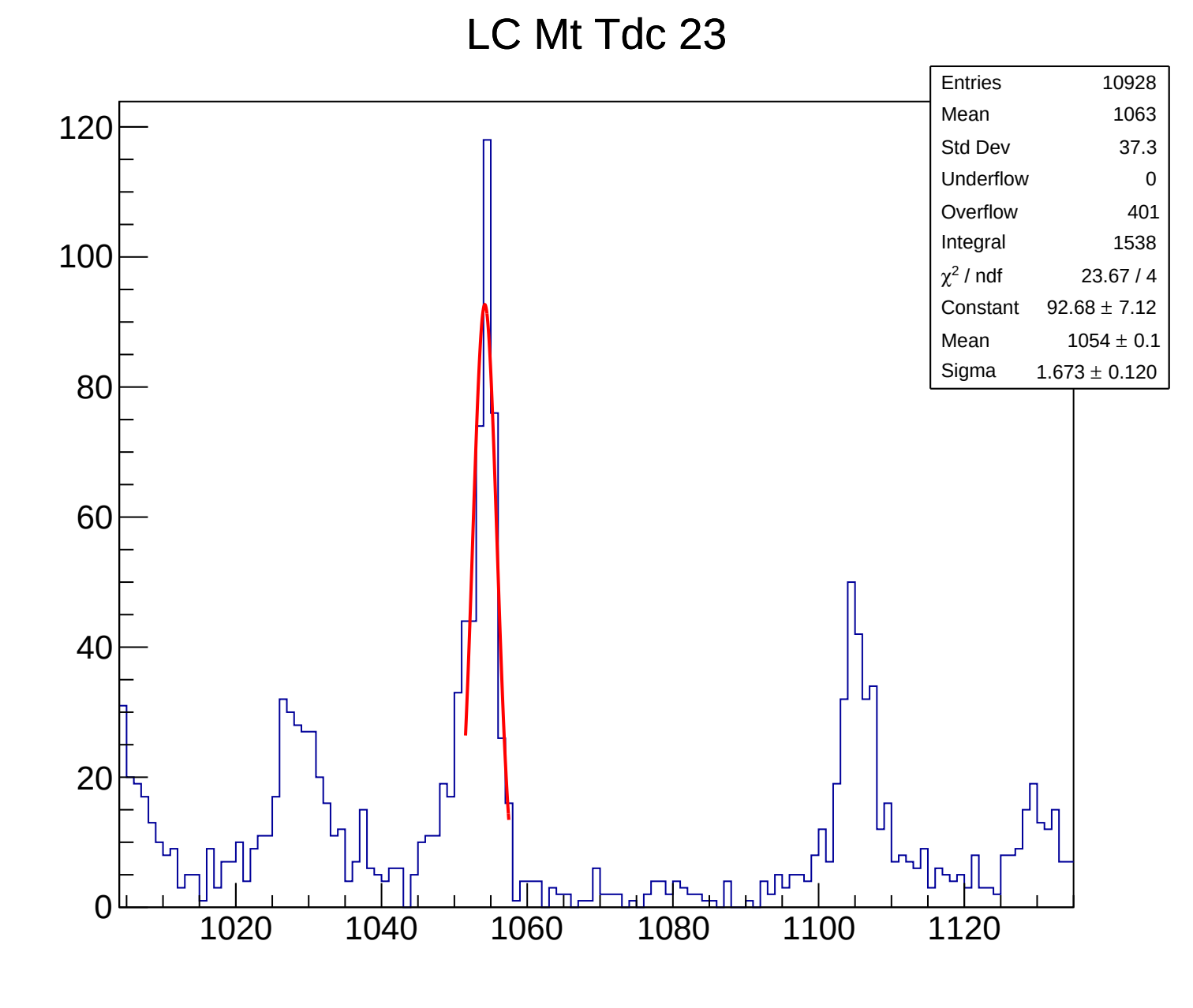

LC Mt Tdc 18
Entries 288018
Mean 1079
Std Dev 40.56
Underflow 0
Overflow 1.207e+04
Integral 1.794e+04
χ² / ndf 34.48 / 4
Constant 414.7 ± 14.7
Mean 1059 ± 0.0
Sigma 1.576 ± 0.046
450
400
350
300
250
200
150
100
50
1020
1040
1060
1080
1100
1120
1140

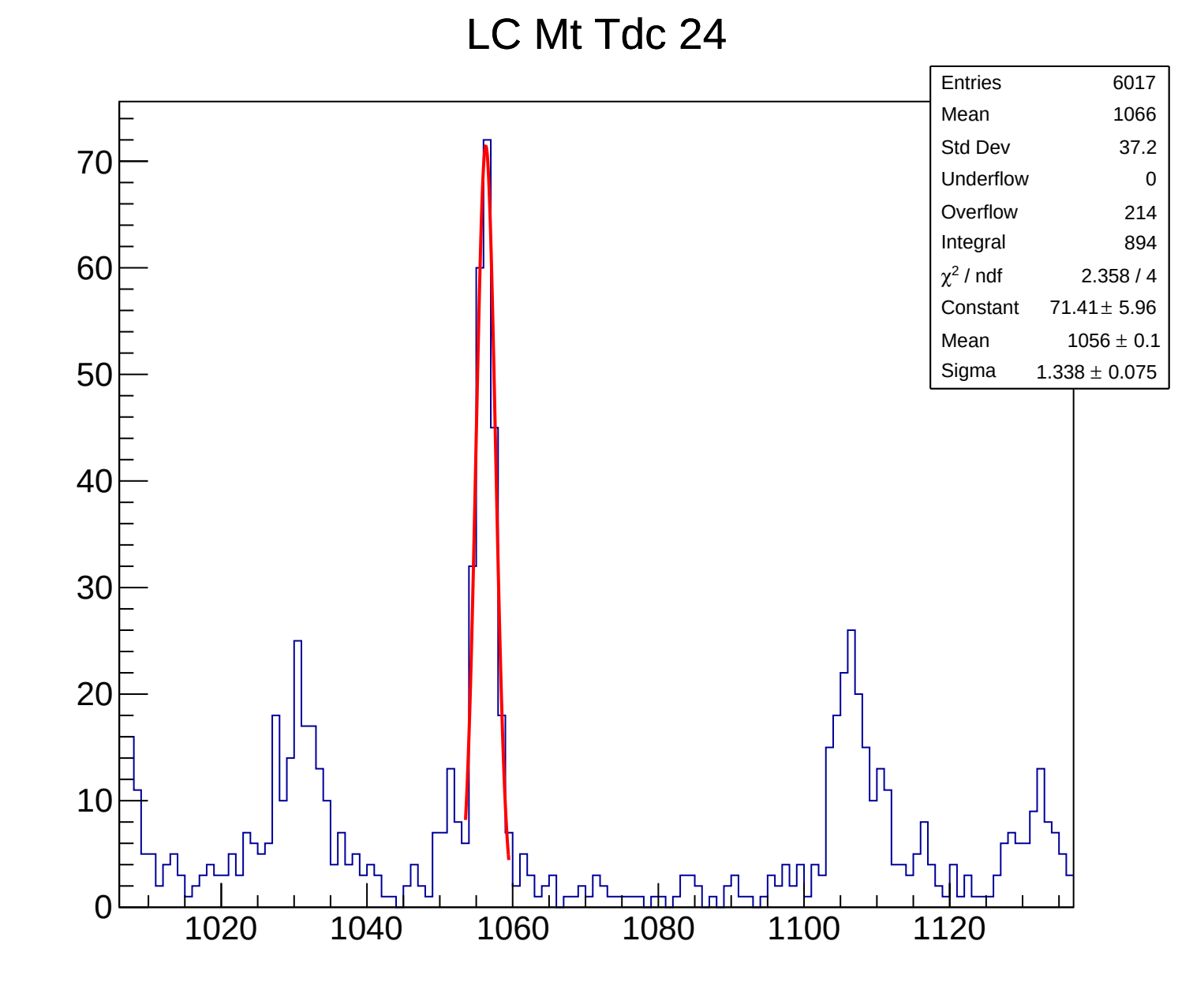

LC Mt Tdc 19
Entries 64460
Mean 1074
Std Dev 40.35
Underflow 0
Overflow 2603
Integral 5715
χ² / ndf 24.73 / 4
Constant 273.9 ± 12.5
Mean 1059 ± 0.0
Sigma 1.352 ± 0.046
250
200
150
100
50
0
1020
1040
1060
1080
1100
1120
1140

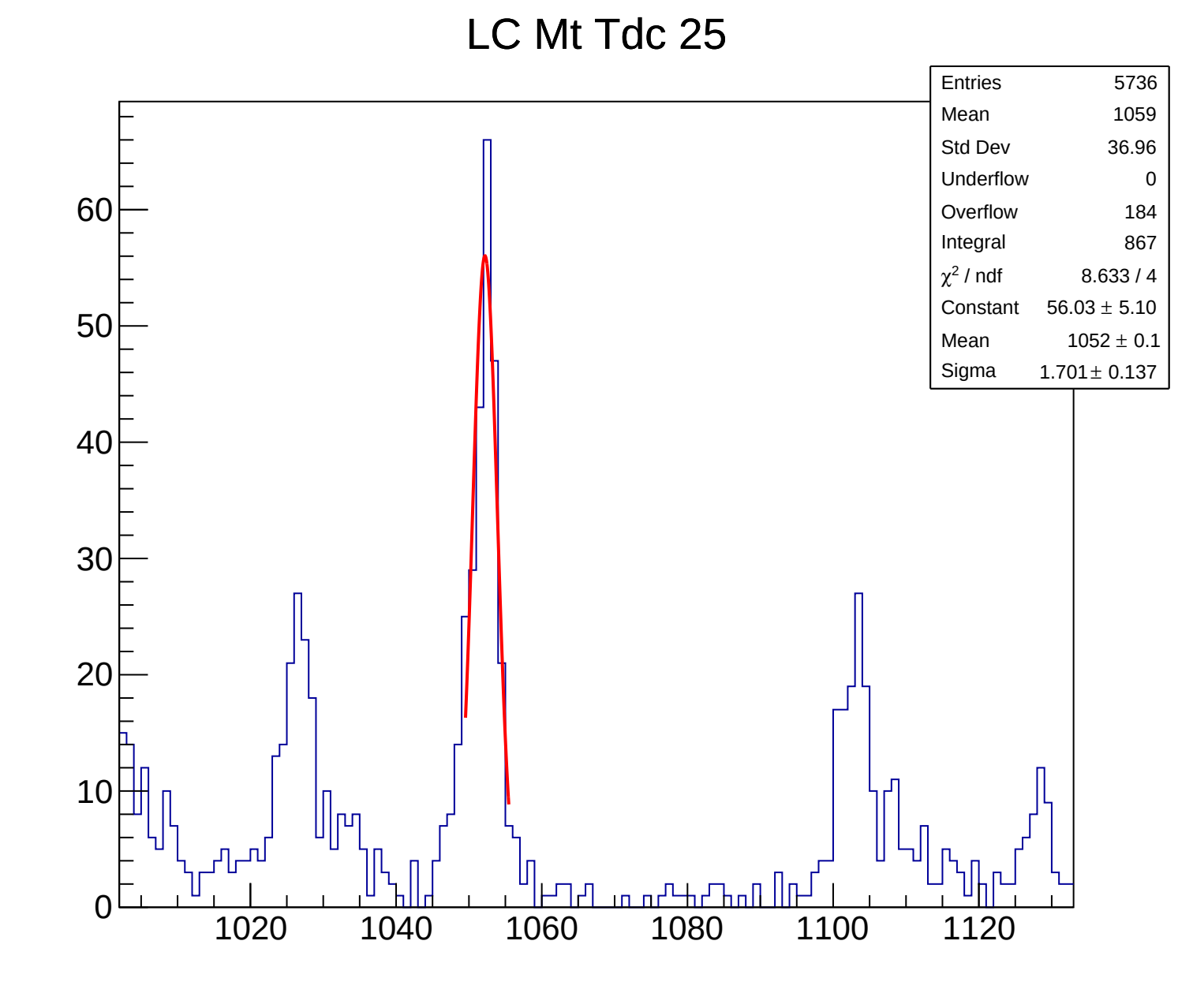

LC Mt Tdc 20
Entries 28681
Mean 1071
Std Dev 38.44
Underflow 0
Overflow 1199
Integral 3135
χ² / ndf 30.64 / 4
Constant 243.7 ± 12.6
Mean 1057 ± 0.0
Sigma 1.265 ± 0.049
300
250
200
150
100
50
0
1020
1040
1060
1080
1100
1120

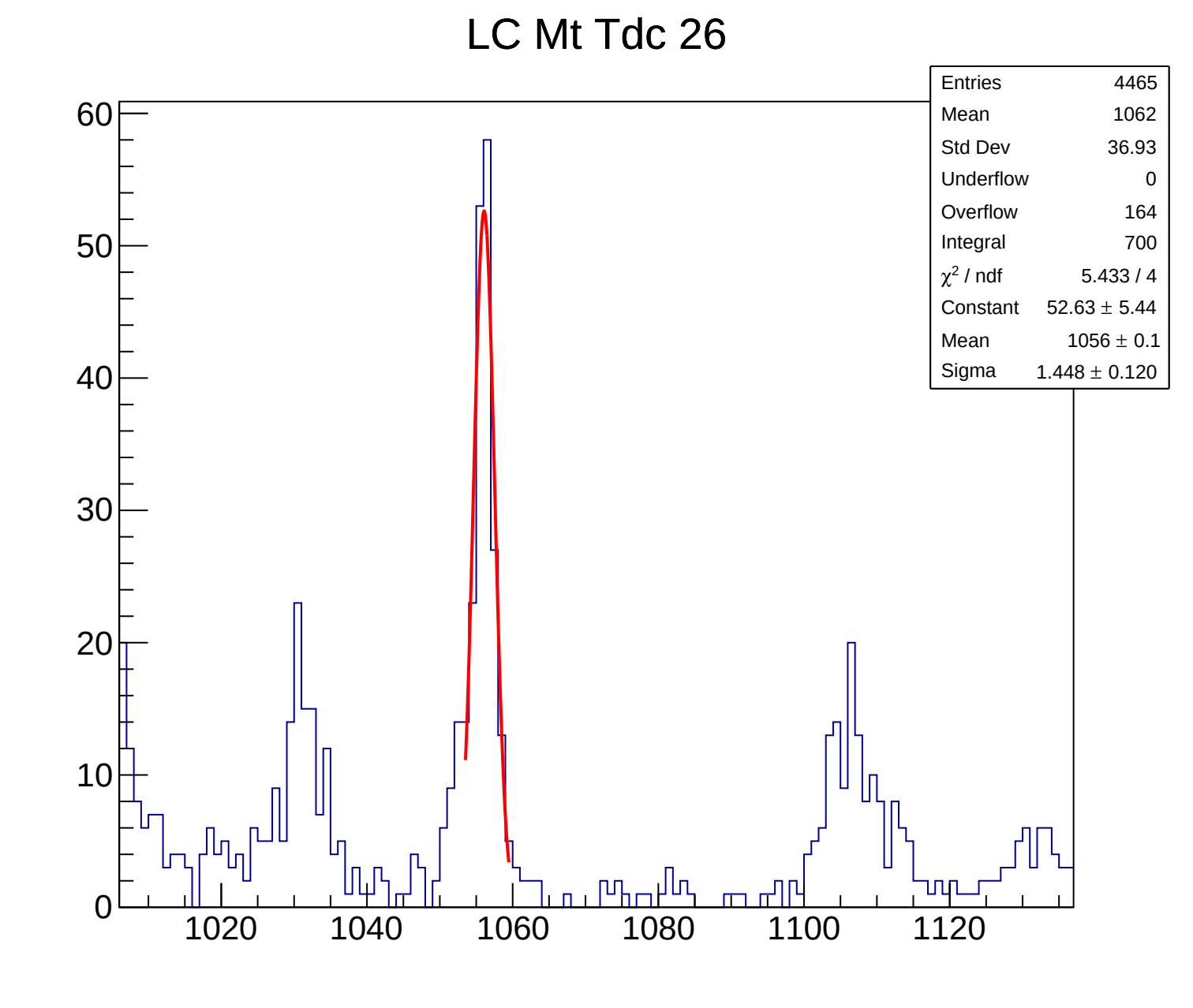

LC Mt Tdc 21
Entries 19225
Mean 1068
Std Dev 38.22
Underflow 0
Overflow 730
Integral 2324
χ² / ndf 34.7 / 4
Constant 169.3 ± 10.5
Mean 1056 ± 0.1
Sigma 1.358 ± 0.067
200
180
160
140
120
100
80
60
40
20
0
1020
1040
1060
1080
1100
1120

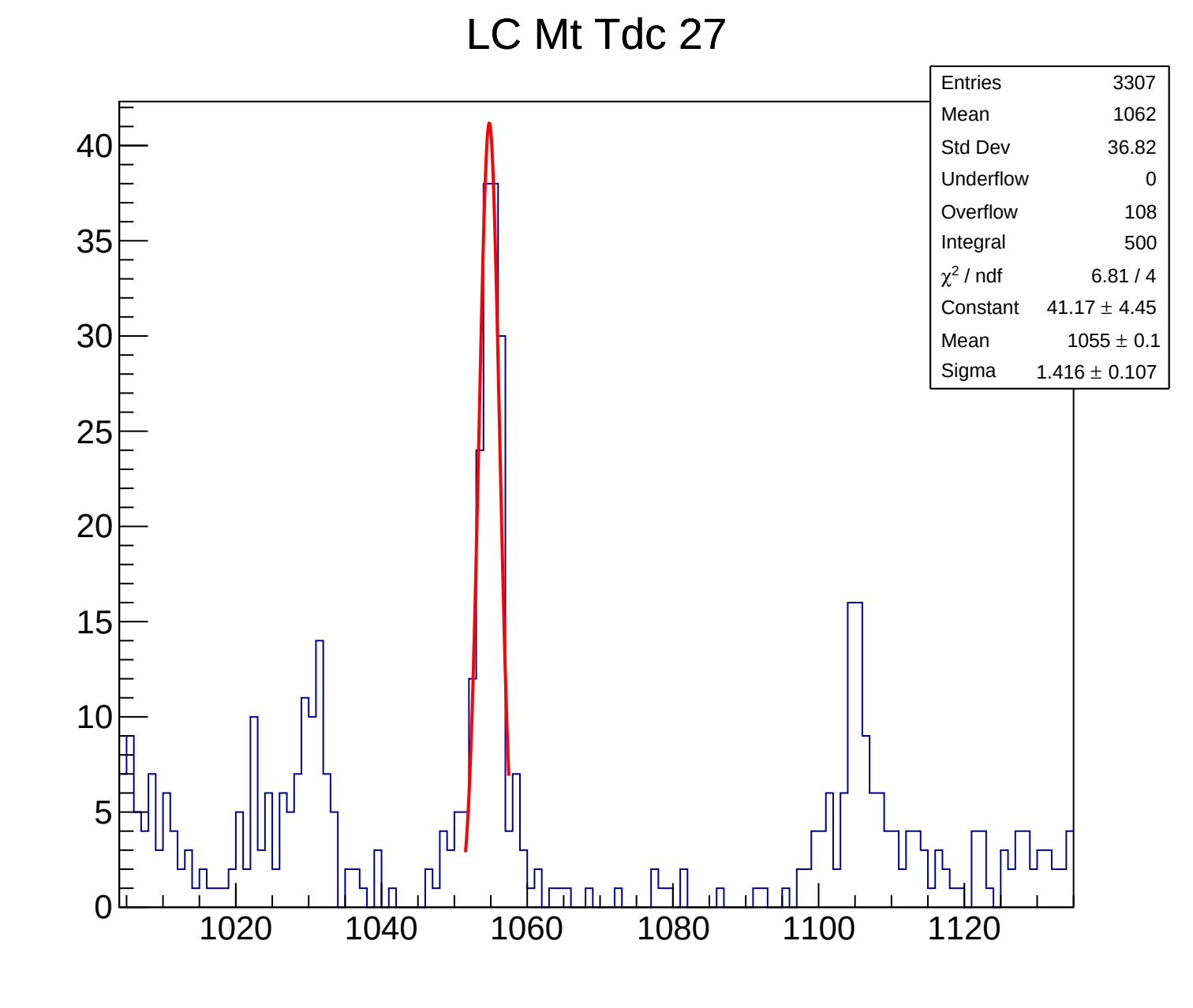

LC Mt Tdc 22
Entries 9156
Mean 1069
Std Dev 37.95
Underflow 0
Overflow 318
Integral 1190
χ² / ndf 3.55 / 4
Constant 87.16 ± 6.79
Mean 1057 ± 0.1
Sigma 1.372 ± 0.078
0
10
20
30
40
50
60
70
80
90
1020
1040
1060
1080
1100
1120

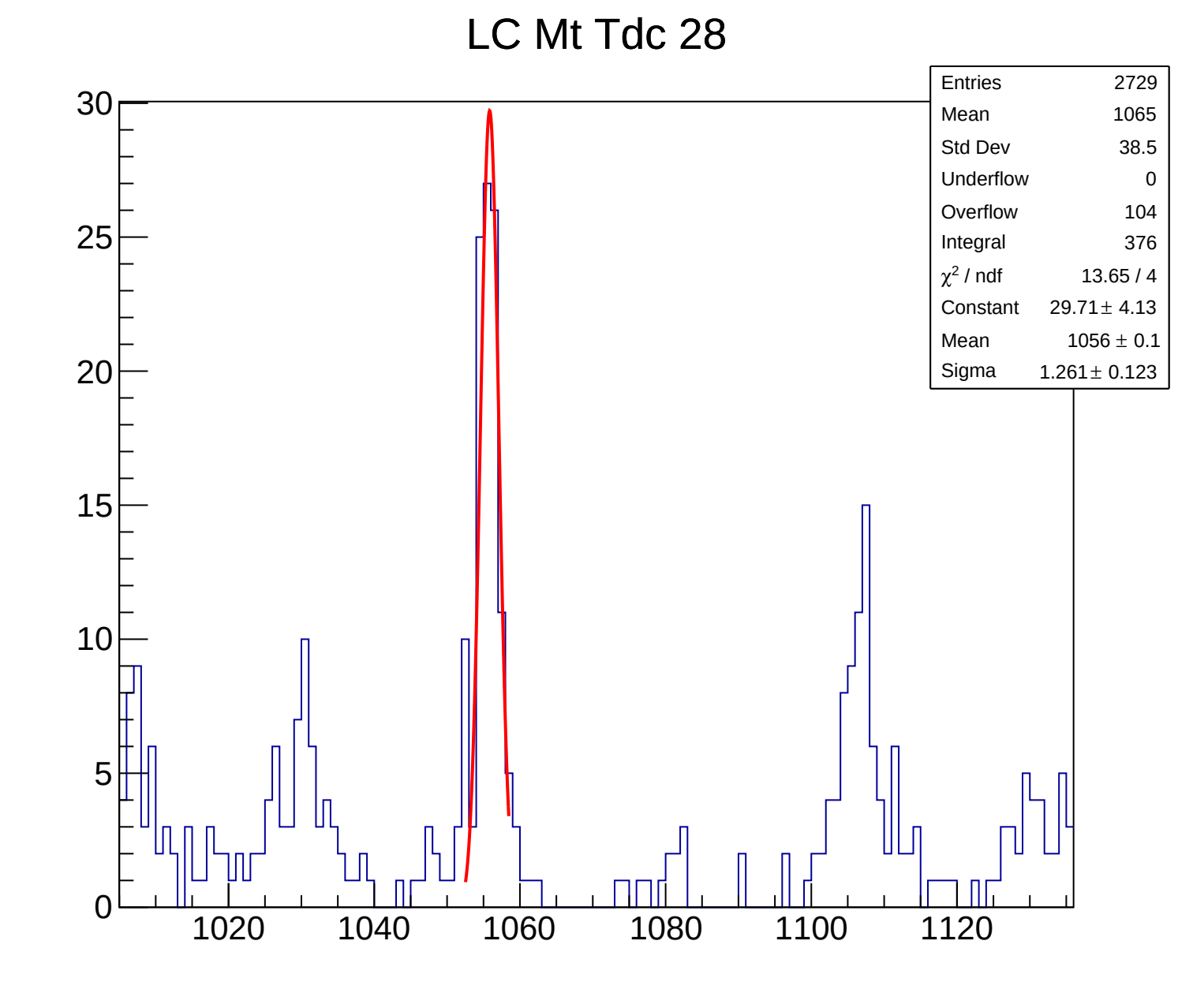

LC Mt Tdc 23
Entries 10928
Mean 1063
Std Dev 37.3
Underflow 0
Overflow 401
Integral 1538
χ² / ndf 23.67 / 4
Constant 92.68 ± 7.12
Mean 1054 ± 0.1
Sigma 1.673 ± 0.120
120
100
80
60
40
20
0
1020
1040
1060
1080
1100
1120

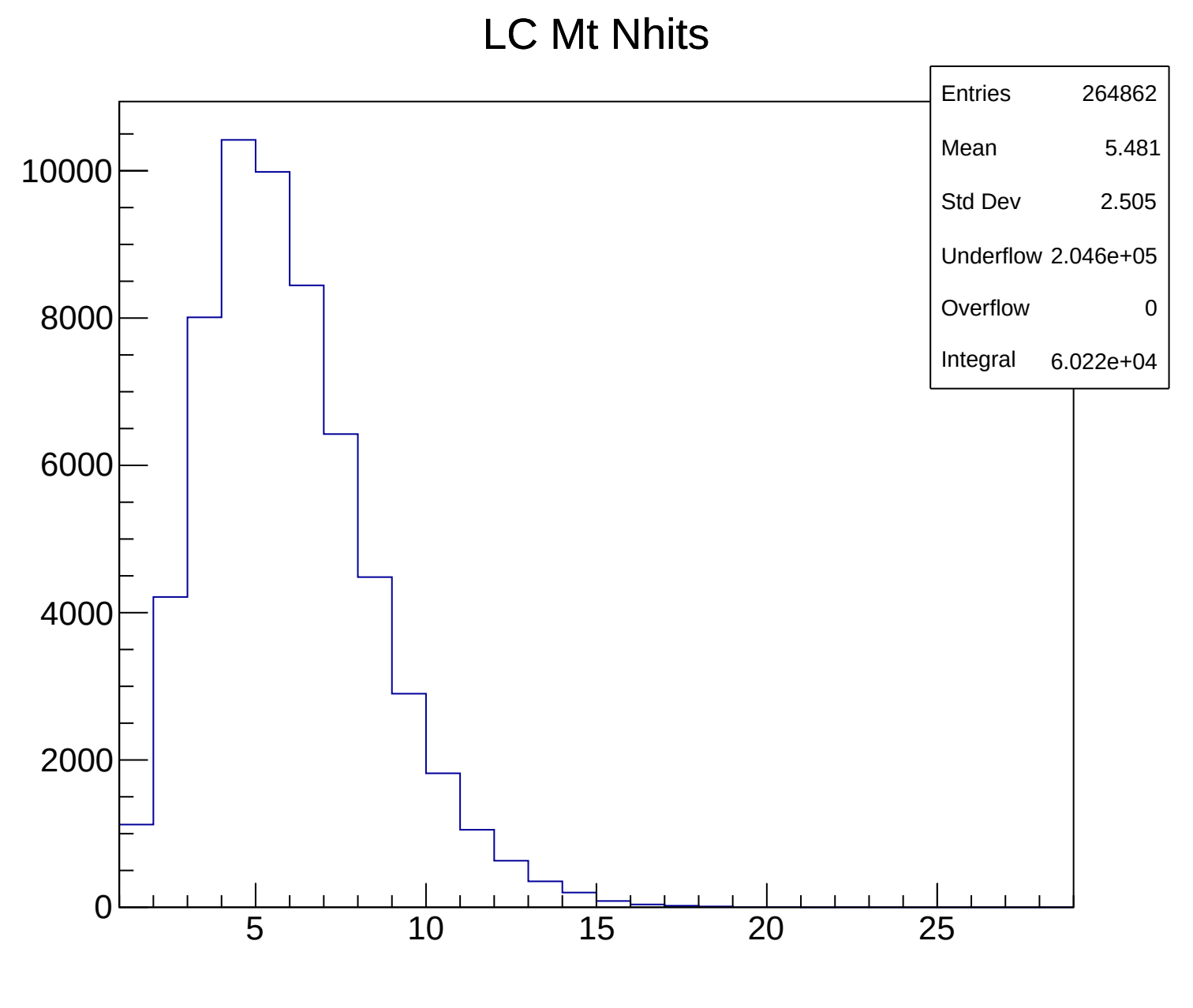

LC Mt Tdc 24
Entries 6017
Mean 1066
Std Dev 37.2
Underflow 0
Overflow 214
Integral 894
χ² / ndf 2.358 / 4
Constant 71.41 ± 5.96
Mean 1056 ± 0.1
Sigma 1.338 ± 0.075
70
60
50
40
30
20
10
0
1020
1040
1060
1080
1100
1120

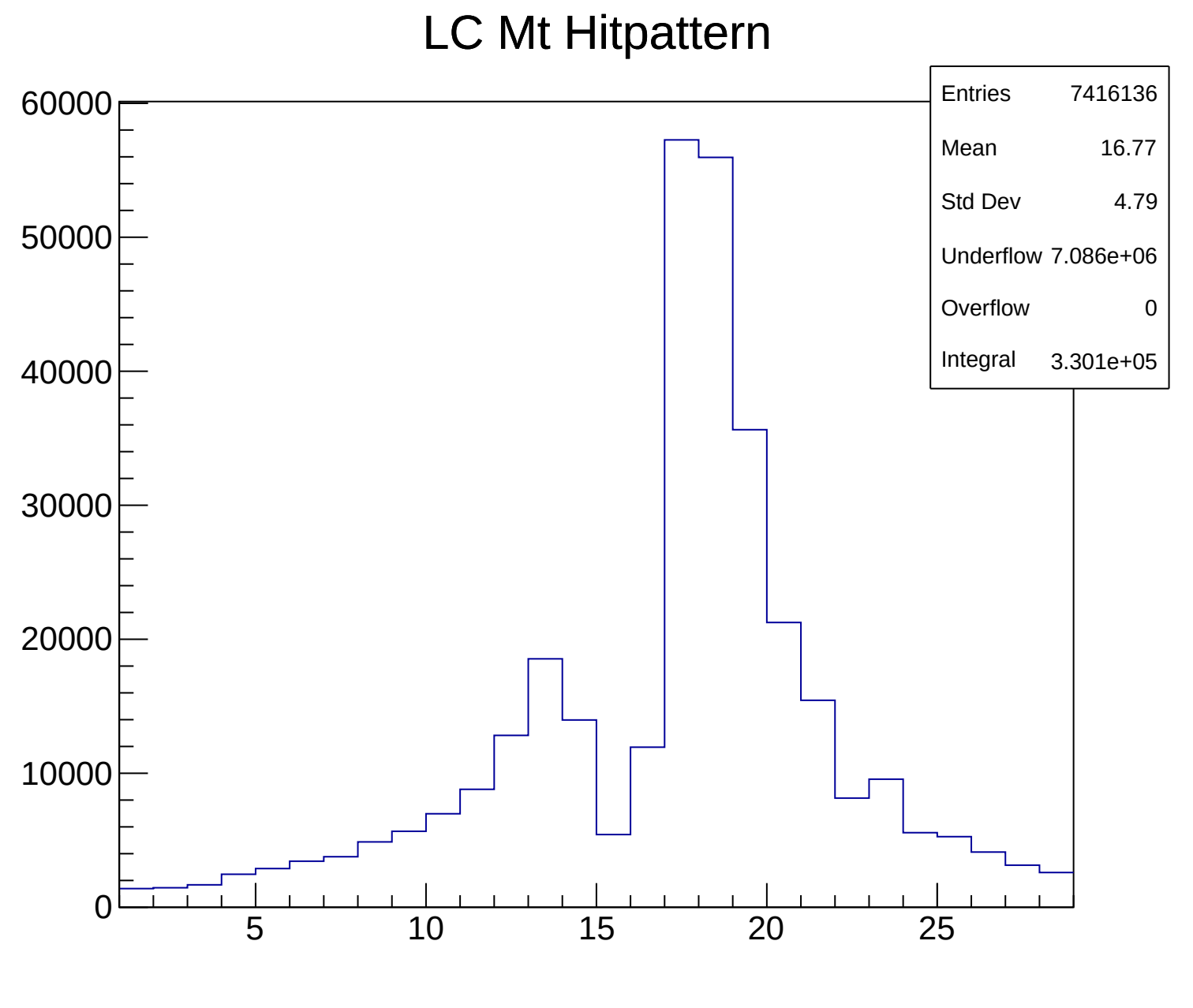

LC Mt Tdc 25
Entries 5736
Mean 1059
Std Dev 36.96
Underflow 0
Overflow 184
Integral 867
χ² / ndf 8.633 / 4
Constant 56.03 ± 5.10
Mean 1052 ± 0.1
Sigma 1.701 ± 0.137
0
10
20
30
40
50
60
1020
1040
1060
1080
1100
1120

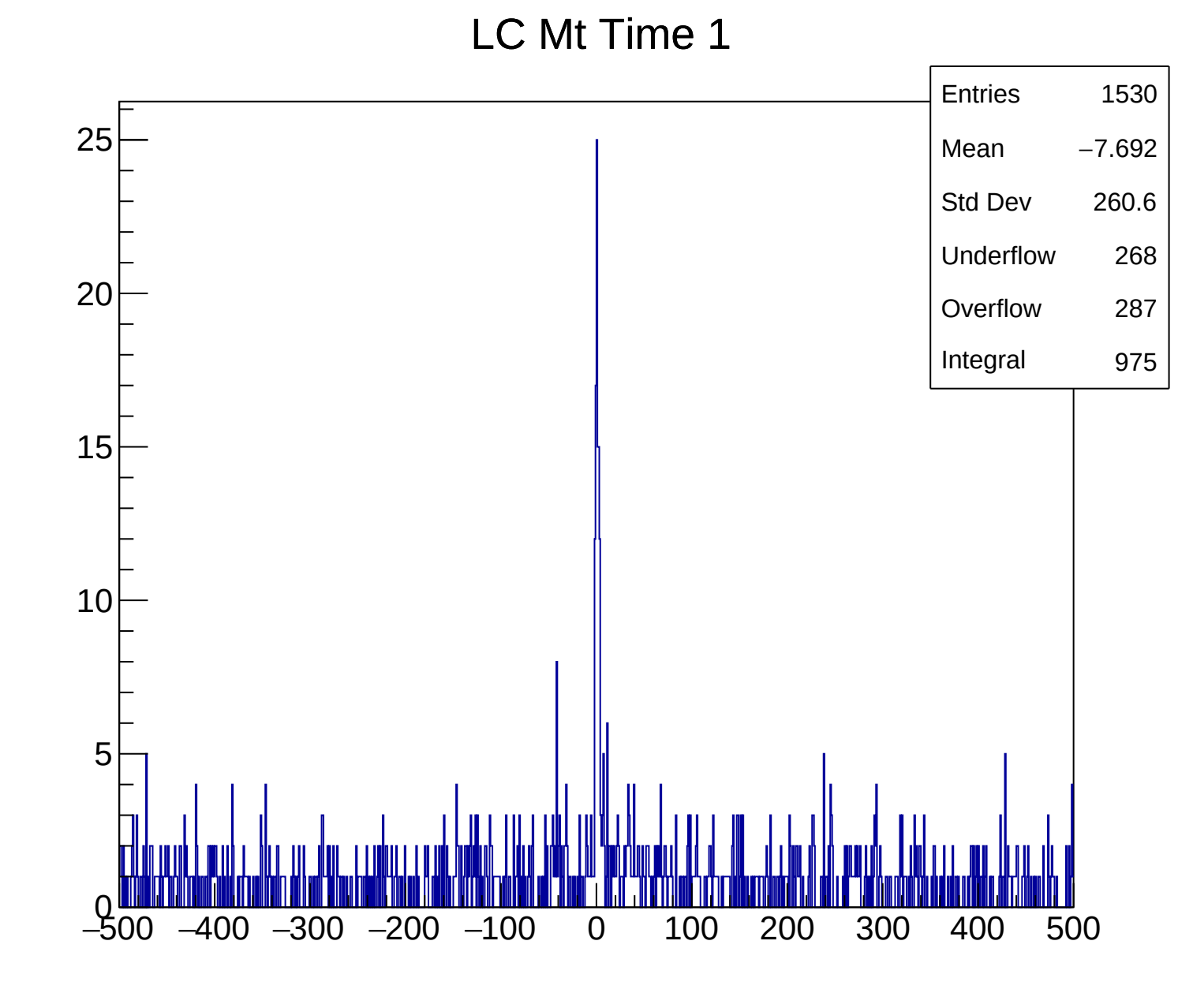

LC Mt Tdc 26
Entries 4465
Mean 1062
Std Dev 36.93
Underflow 0
Overflow 164
Integral 700
χ² / ndf 5.433 / 4
Constant 52.63 ± 5.44
Mean 1056 ± 0.1
Sigma 1.448 ± 0.120
60
50
40
30
20
10
0
1020
1040
1060
1080
1100
1120

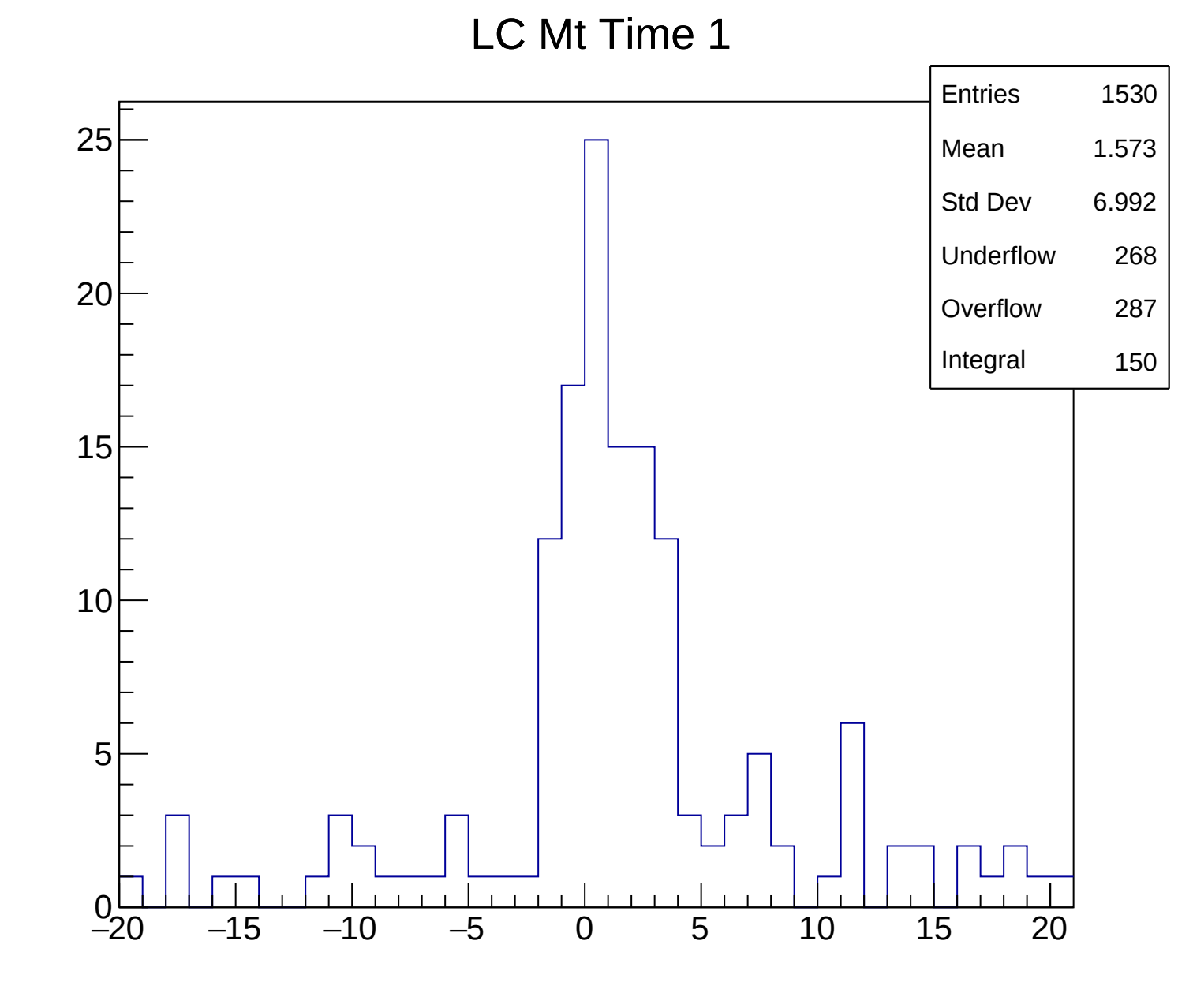

LC Mt Tdc 27
Entries 3307
Mean 1062
Std Dev 36.82
Underflow 0
Overflow 108
Integral 500
χ² / ndf 6.81 / 4
Constant 41.17 ± 4.45
Mean 1055 ± 0.1
Sigma 1.416 ± 0.107
40
35
30
25
20
15
10
5
0
1020
1040
1060
1080
1100
1120

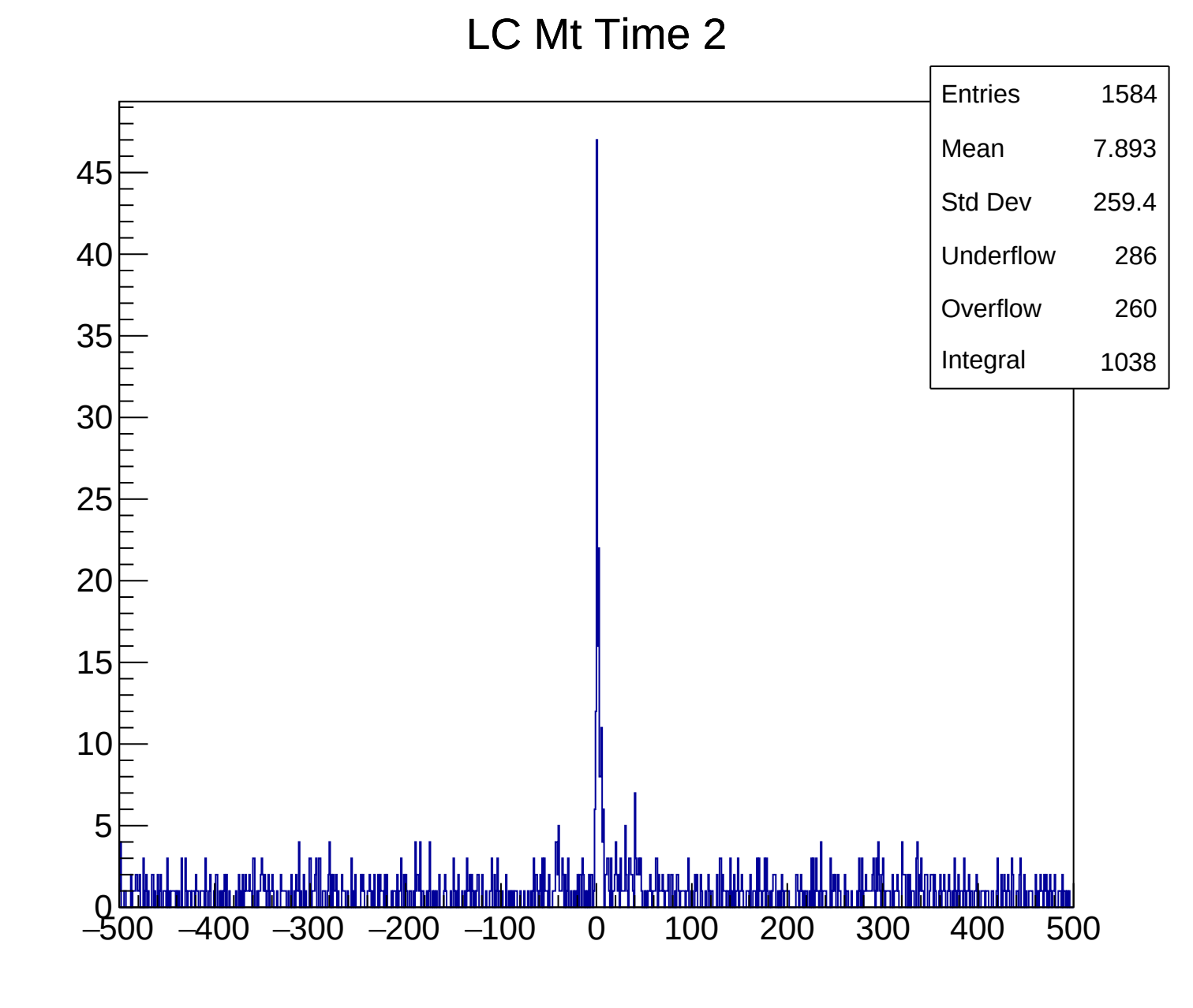

LC Mt Tdc 28
Entries 2729
Mean 1065
Std Dev 38.5
Underflow 0
Overflow 104
Integral 376
χ² / ndf 13.65 / 4
Constant 29.71± 4.13
Mean 1056 ± 0.1
Sigma 1.261± 0.123
30
25
20
15
10
5
0
1020
1040
1060
1080
1100
1120

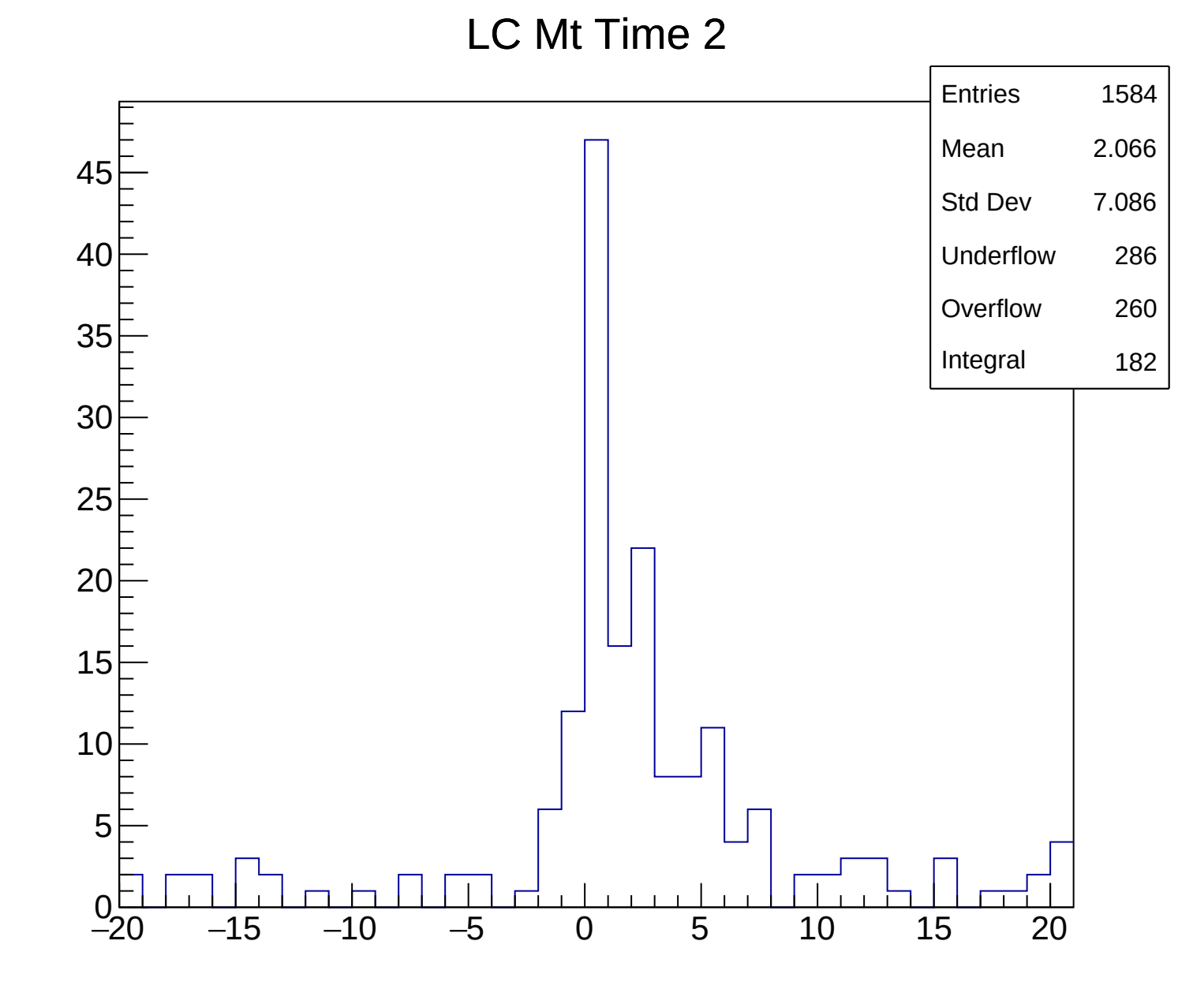

LC Mt Nhits
Entries 264862
Mean 5.481
Std Dev 2.505
Underflow 2.046e+05
Overflow 0
Integral 6.022e+04
10000
8000
6000
4000
2000
0
5
10
15
20
25


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
–500
–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
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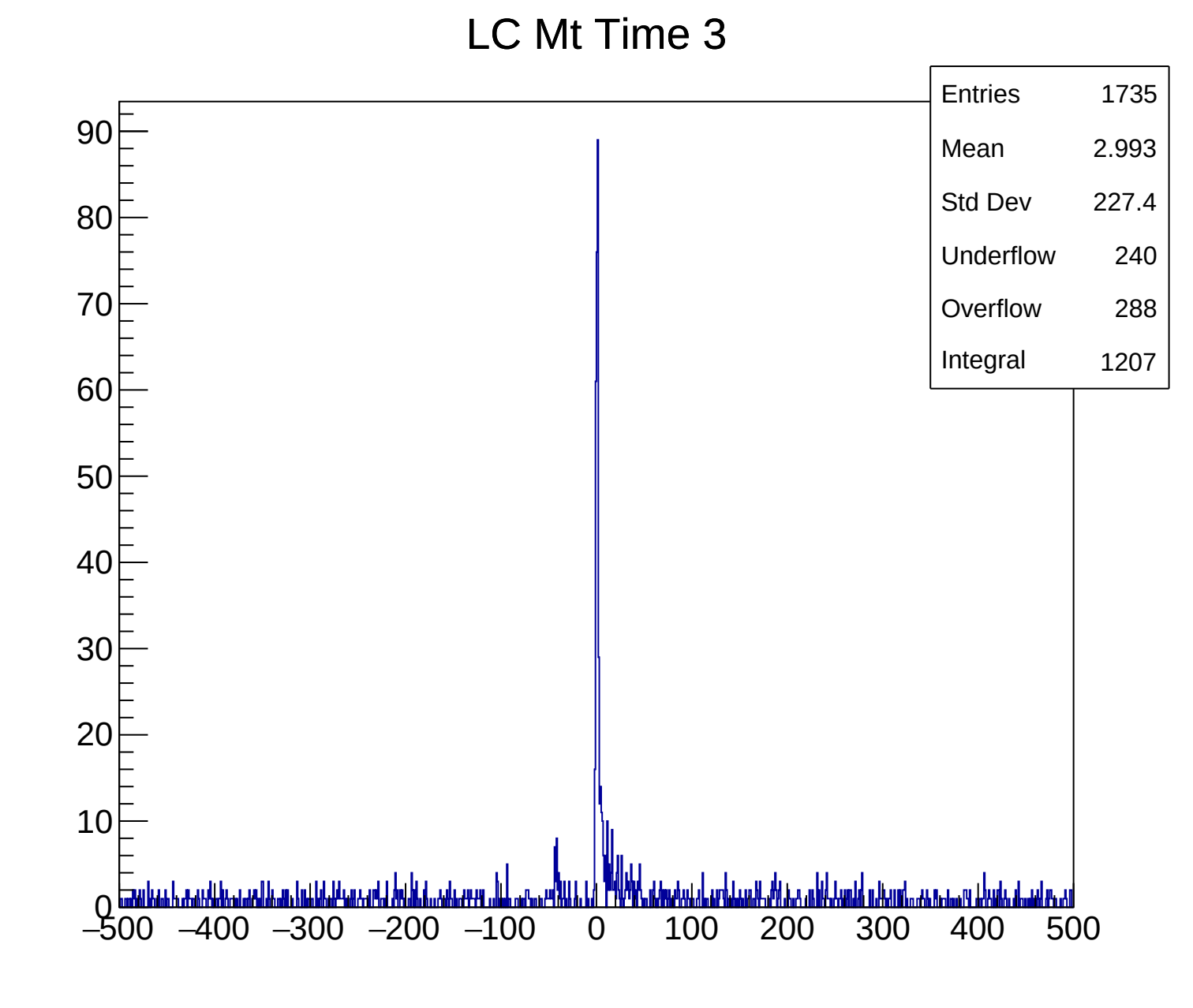
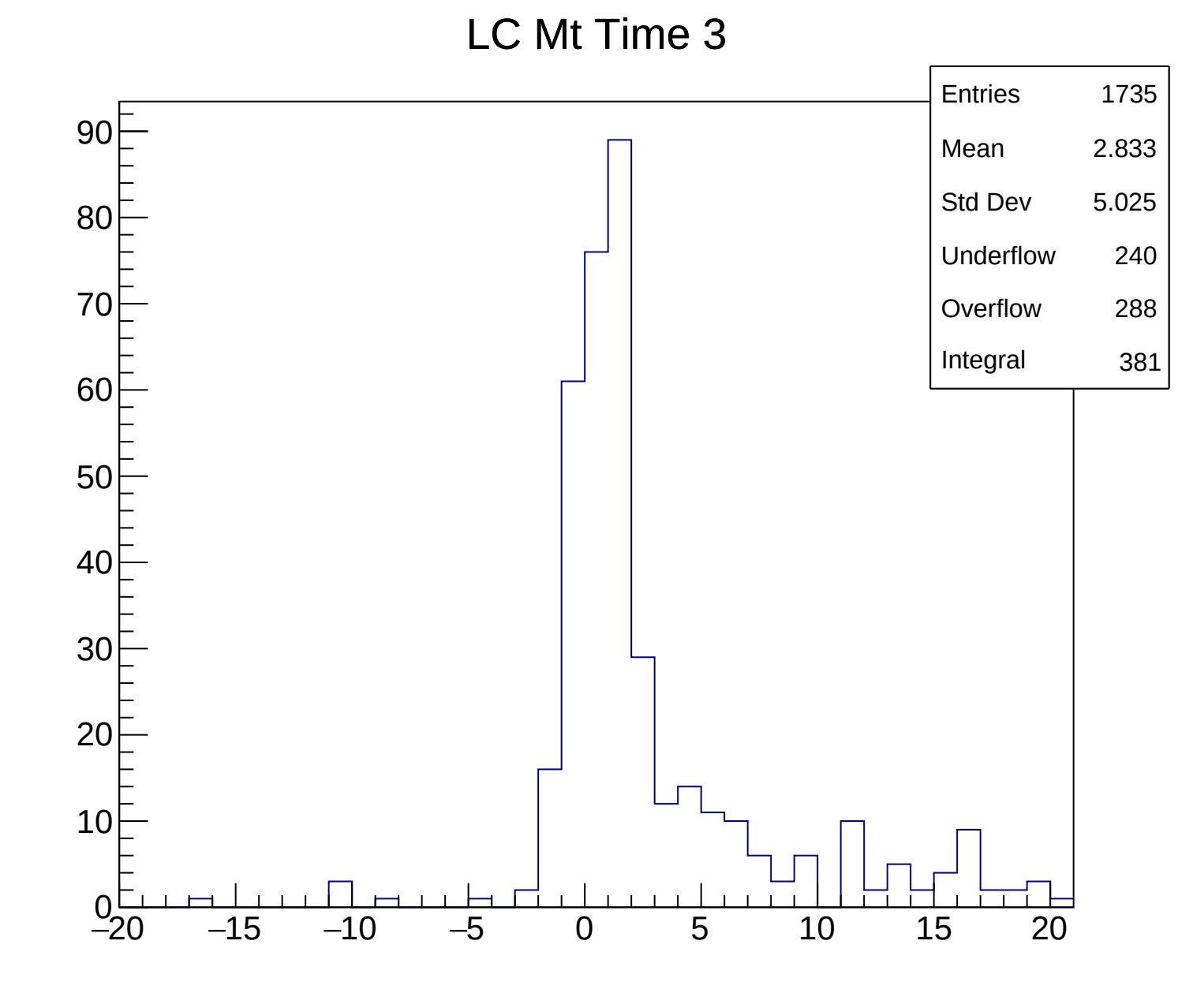
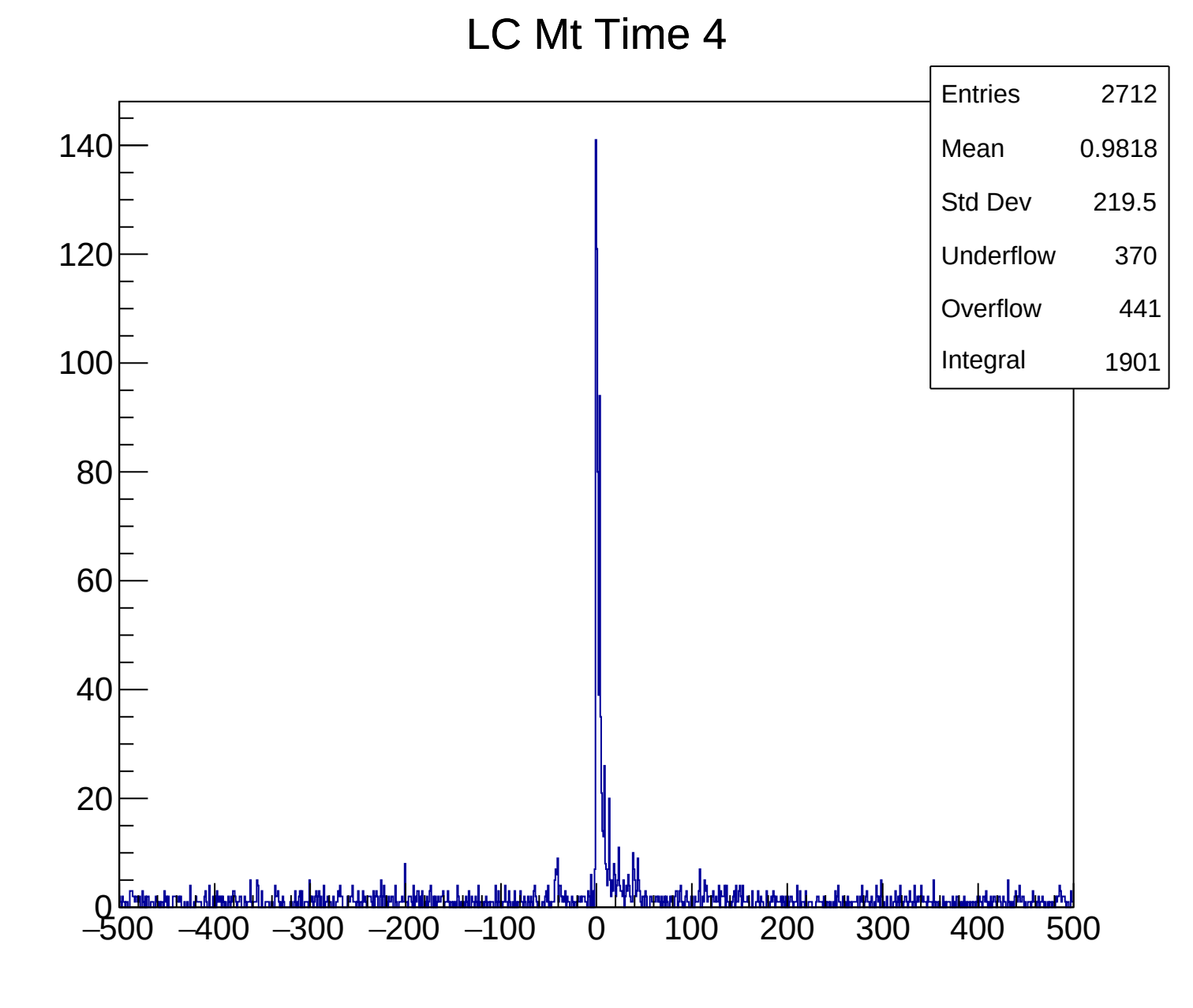
25
20
15
10
5
0
–20
–15
–10
–5
0
5
10
15
20


LC Mt Time 3
Entries 1735
Mean 2.993
Std Dev 227.4
Underflow 240
Overflow 288
Integral 1207
90
80
70
60
50
40
30
20
10
0
–500
–400
–300
–200
–100
0
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
80
70
60
50
40
30
20
10
0
–20
–15
–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
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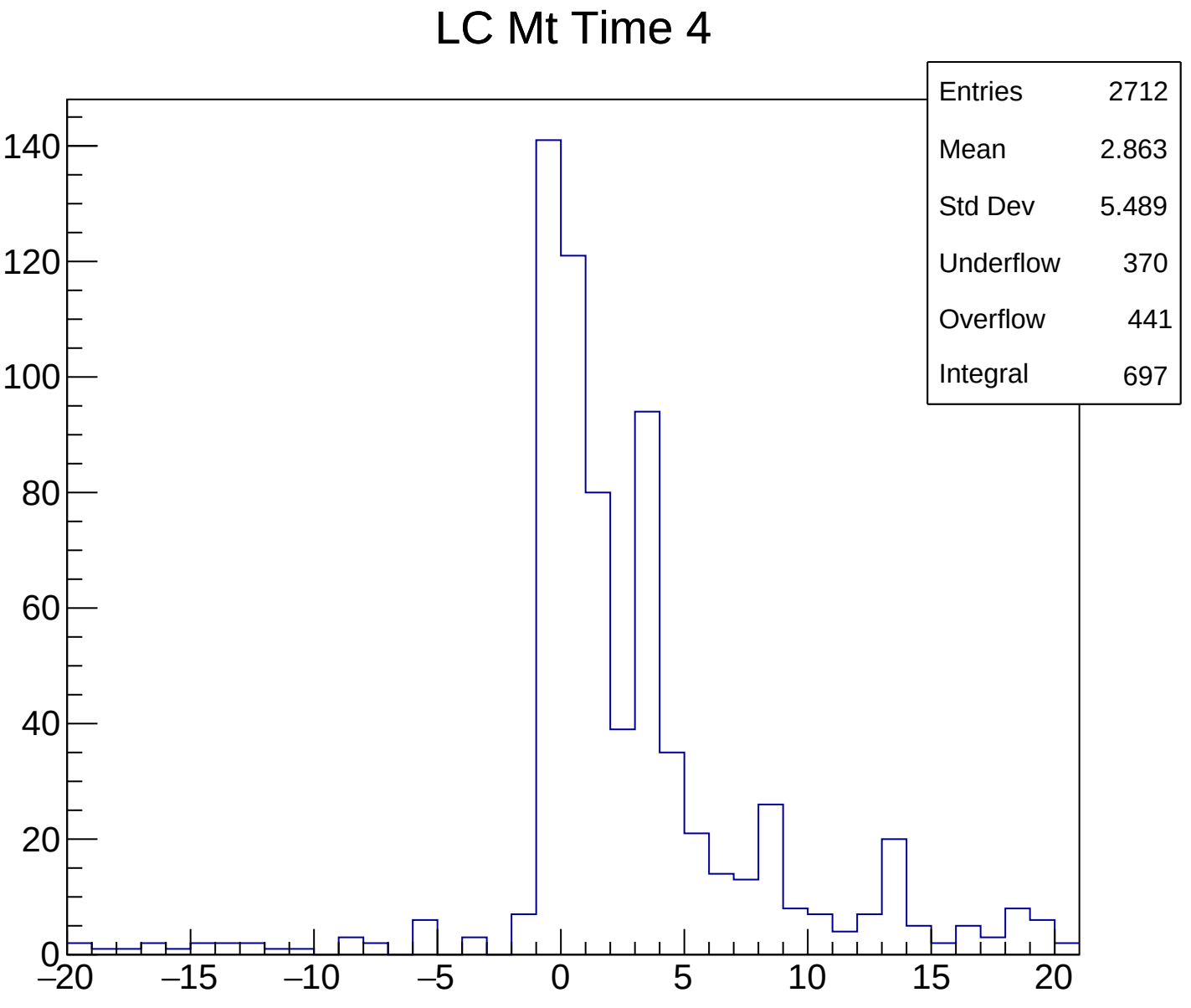
LC Mt Time 4
Entries 2712
Mean 2.863
Std Dev 5.489
Underflow 370
Overflow 441
Integral 697
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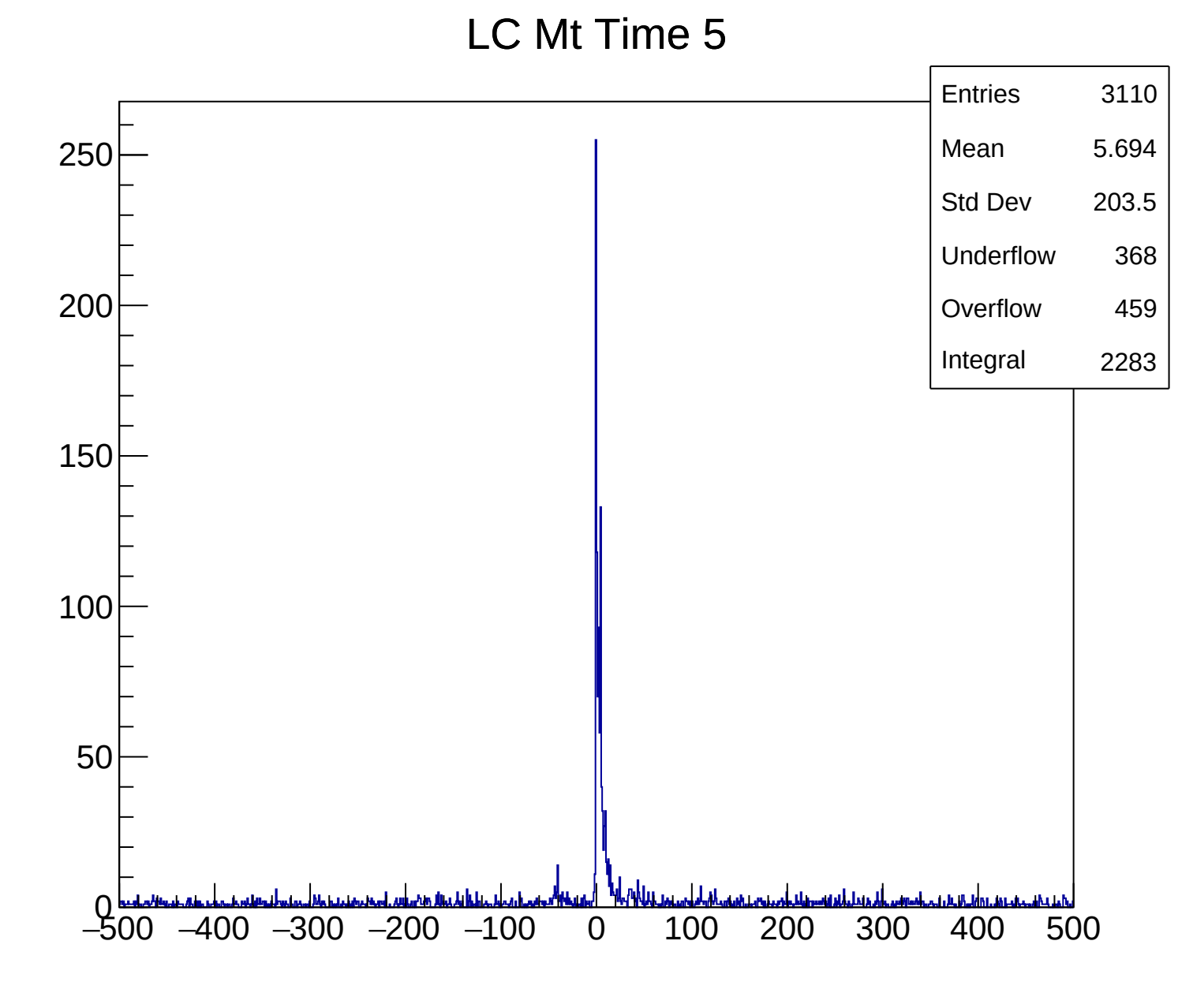
LC Mt Time 5
Entries 3110
Mean 5.694
Std Dev 203.5
Underflow 368
Overflow 459
Integral 2283
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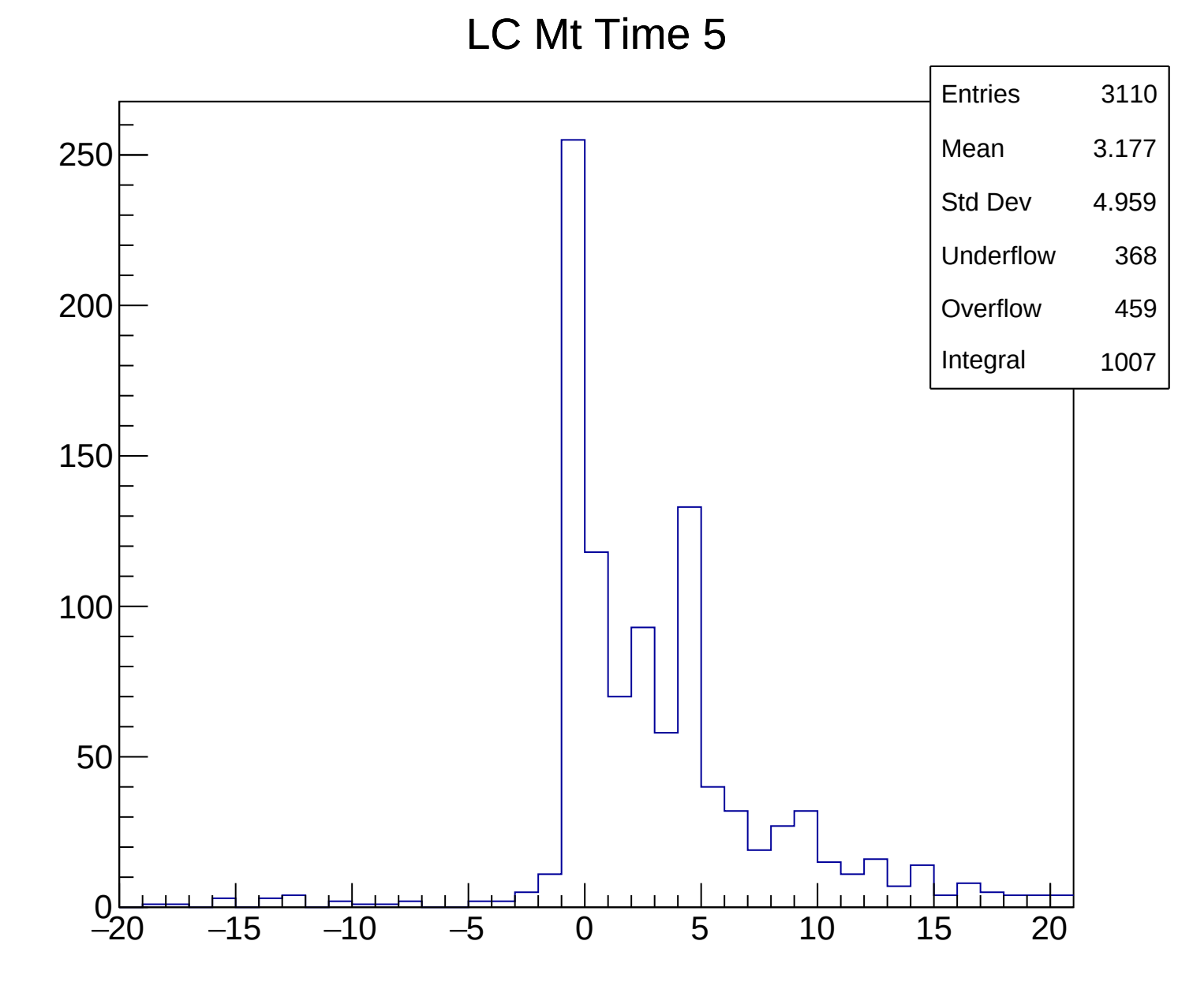
LC Mt Time 5
Entries 3110
Mean 3.177
Std Dev 4.959
Underflow 368
Overflow 459
Integral 1007
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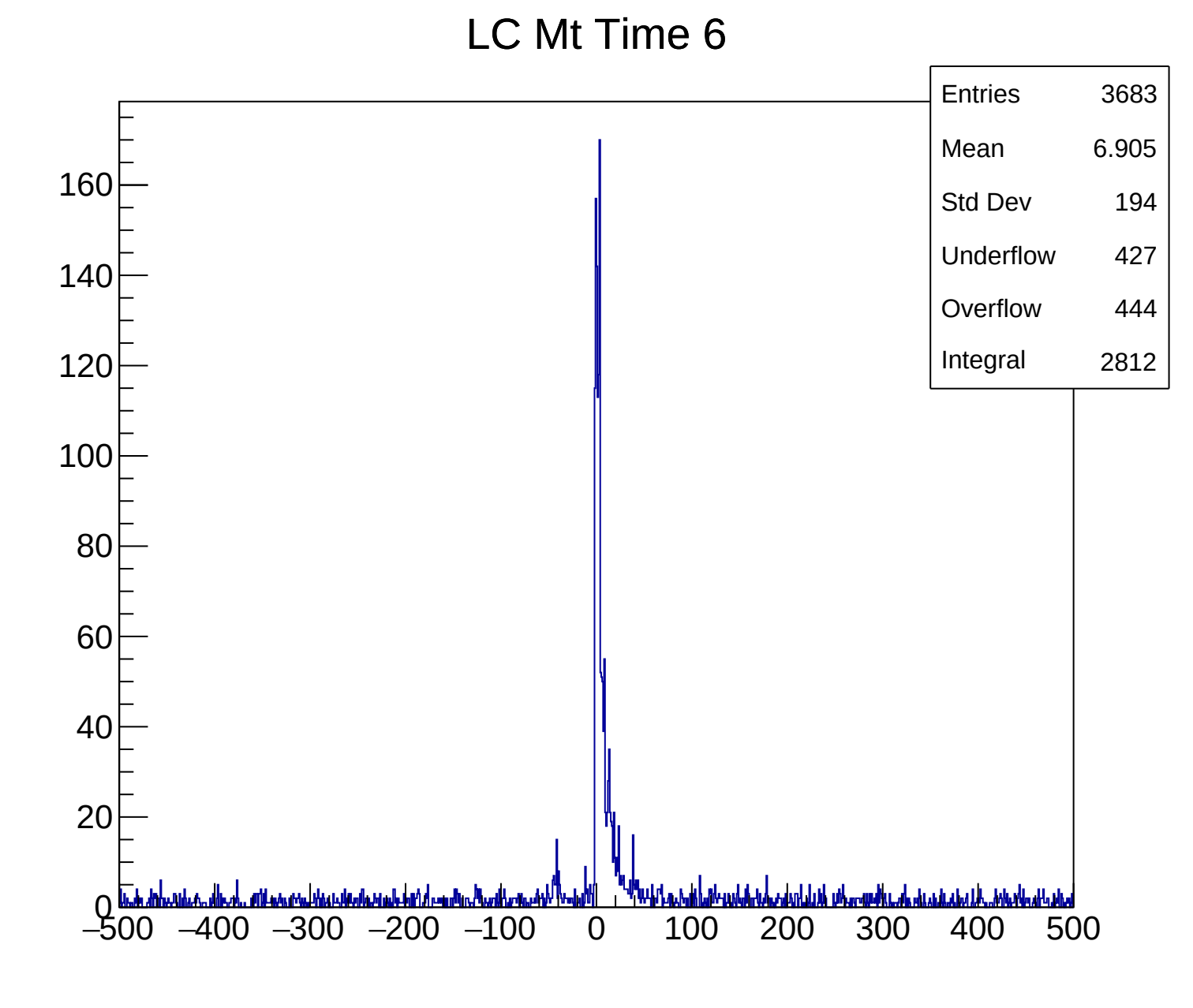
LC Mt Time 6
Entries 3683
Mean 6.905
Std Dev 194
Underflow 427
Overflow 444
Integral 2812
160
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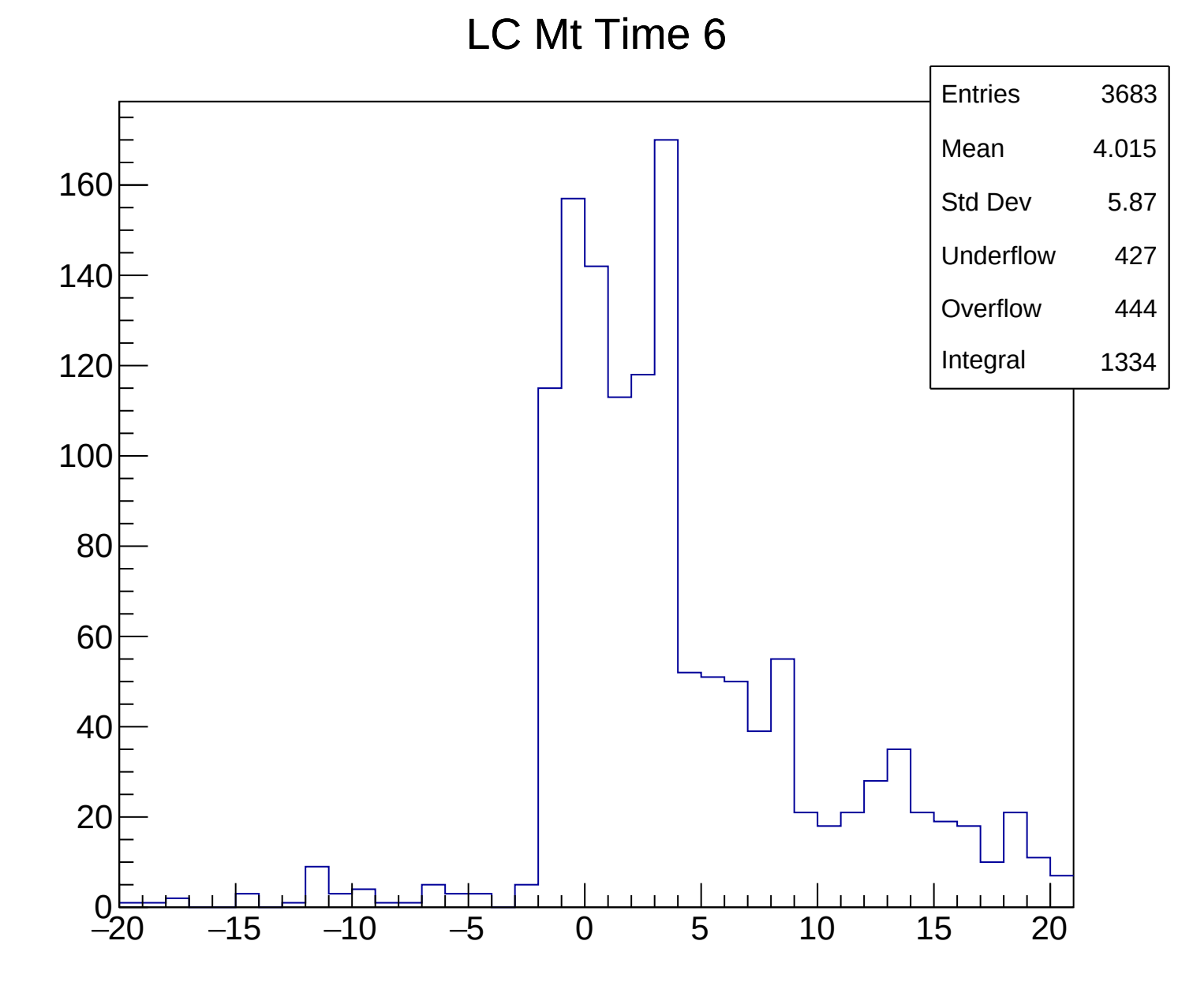
LC Mt Time 6
Entries 3683
Mean 4.015
Std Dev 5.87
Underflow 427
Overflow 444
Integral 1334
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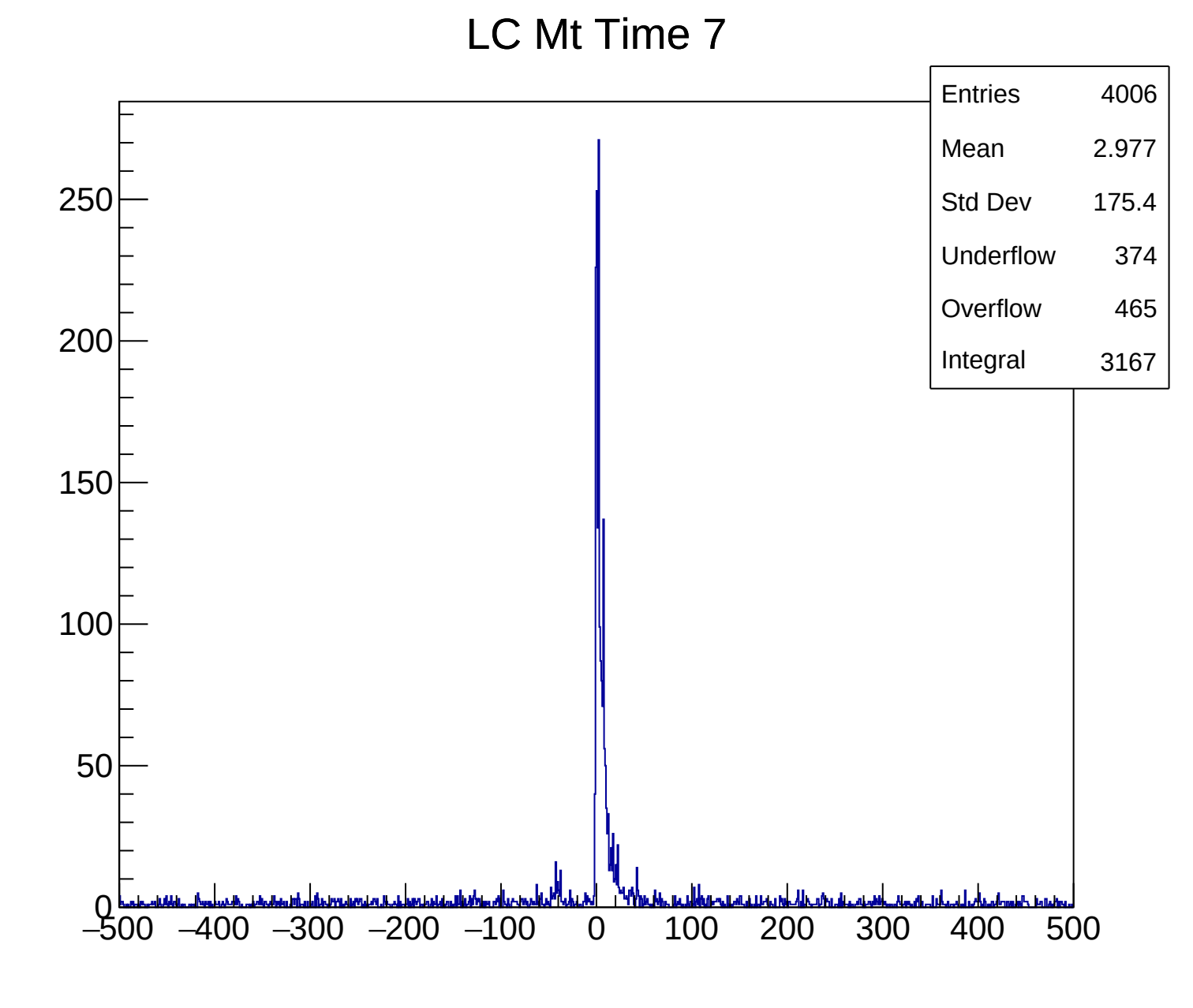
LC Mt Time 7
Entries 4006
Mean 2.977
Std Dev 175.4
Underflow 374
Overflow 465
Integral 3167
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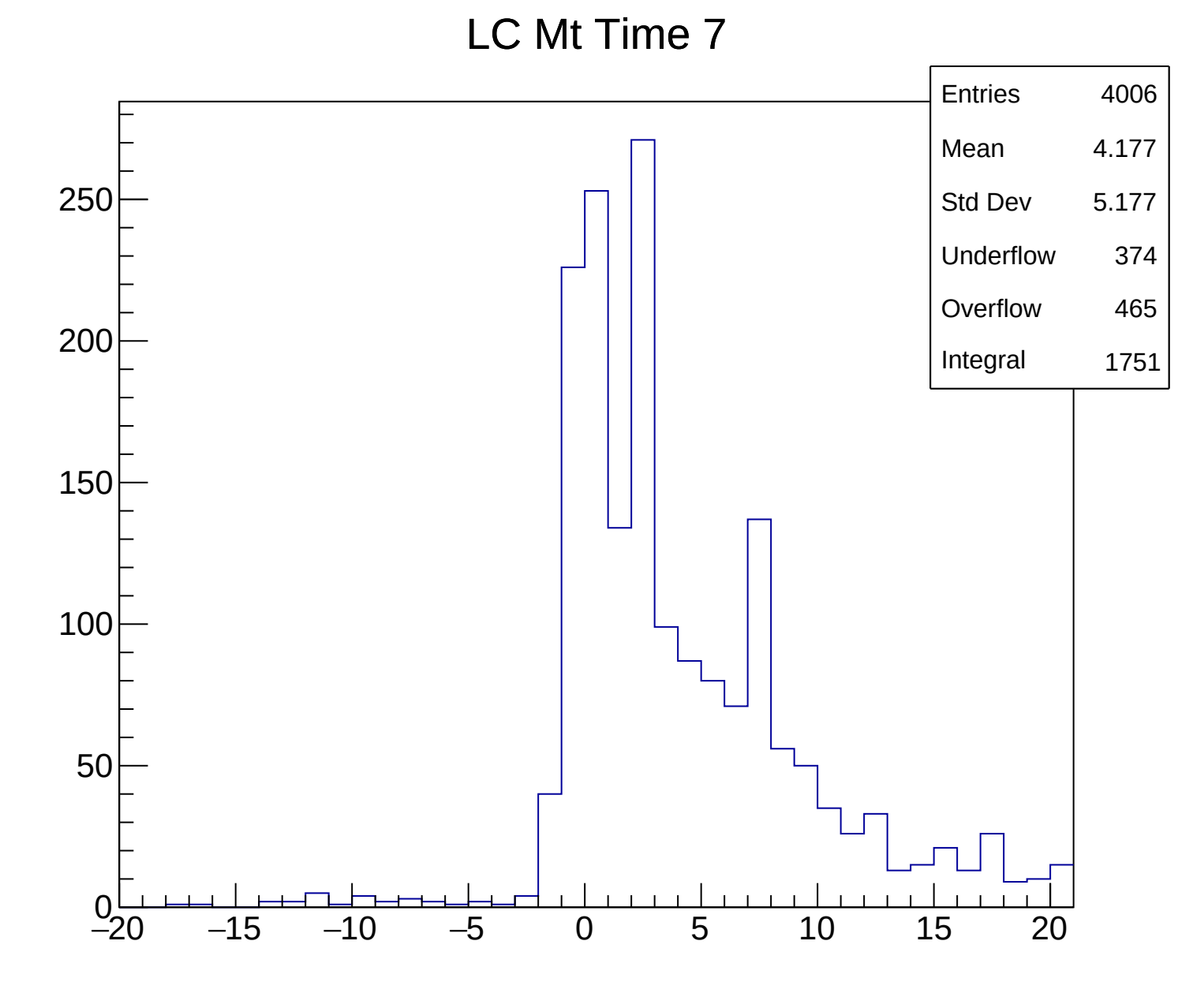
LC Mt Time 7
Entries 4006
Mean 4.177
Std Dev 5.177
Underflow 374
Overflow 465
Integral 1751
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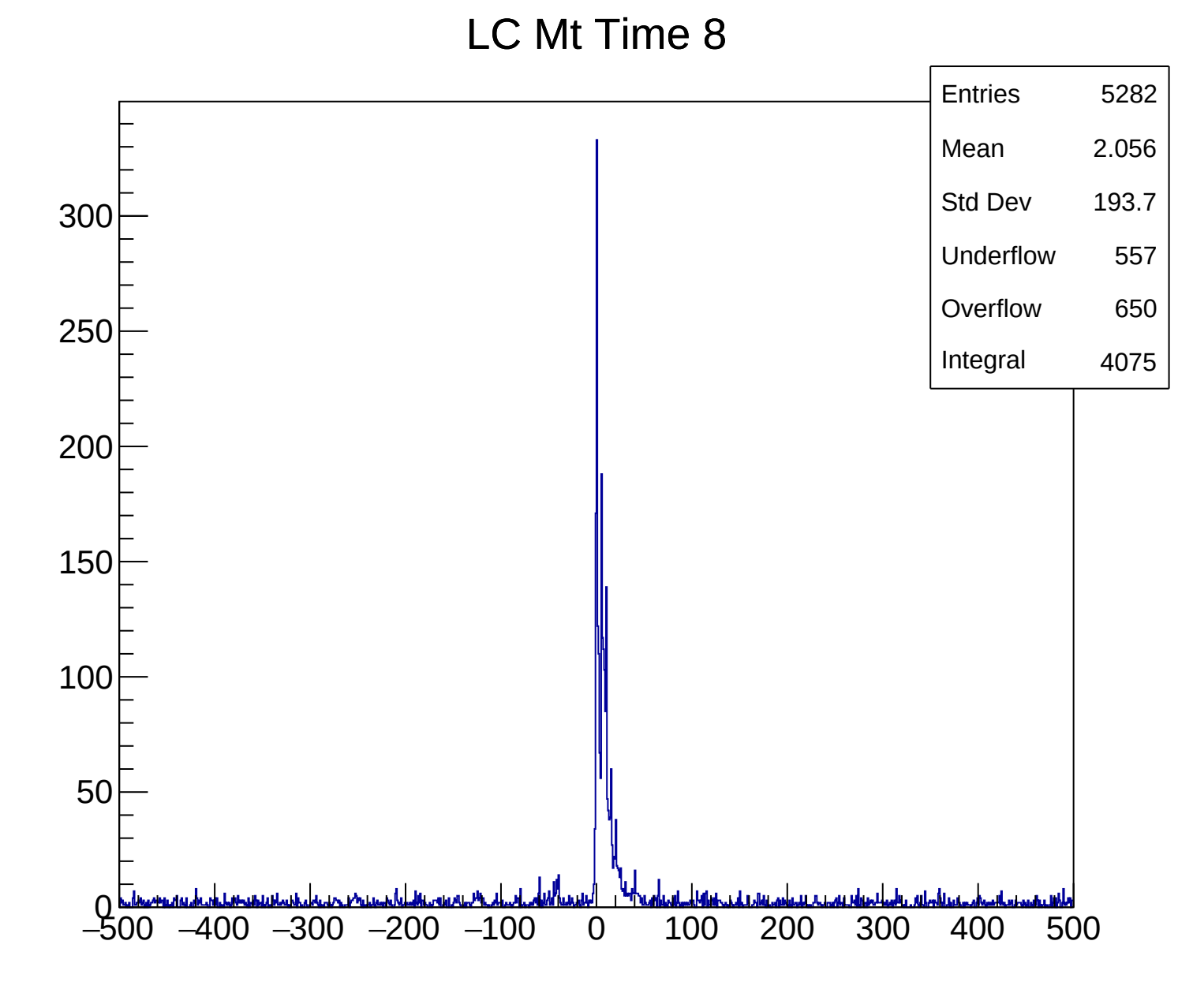
LC Mt Time 8
Entries 5282
Mean 2.056
Std Dev 193.7
Underflow 557
Overflow 650
Integral 4075
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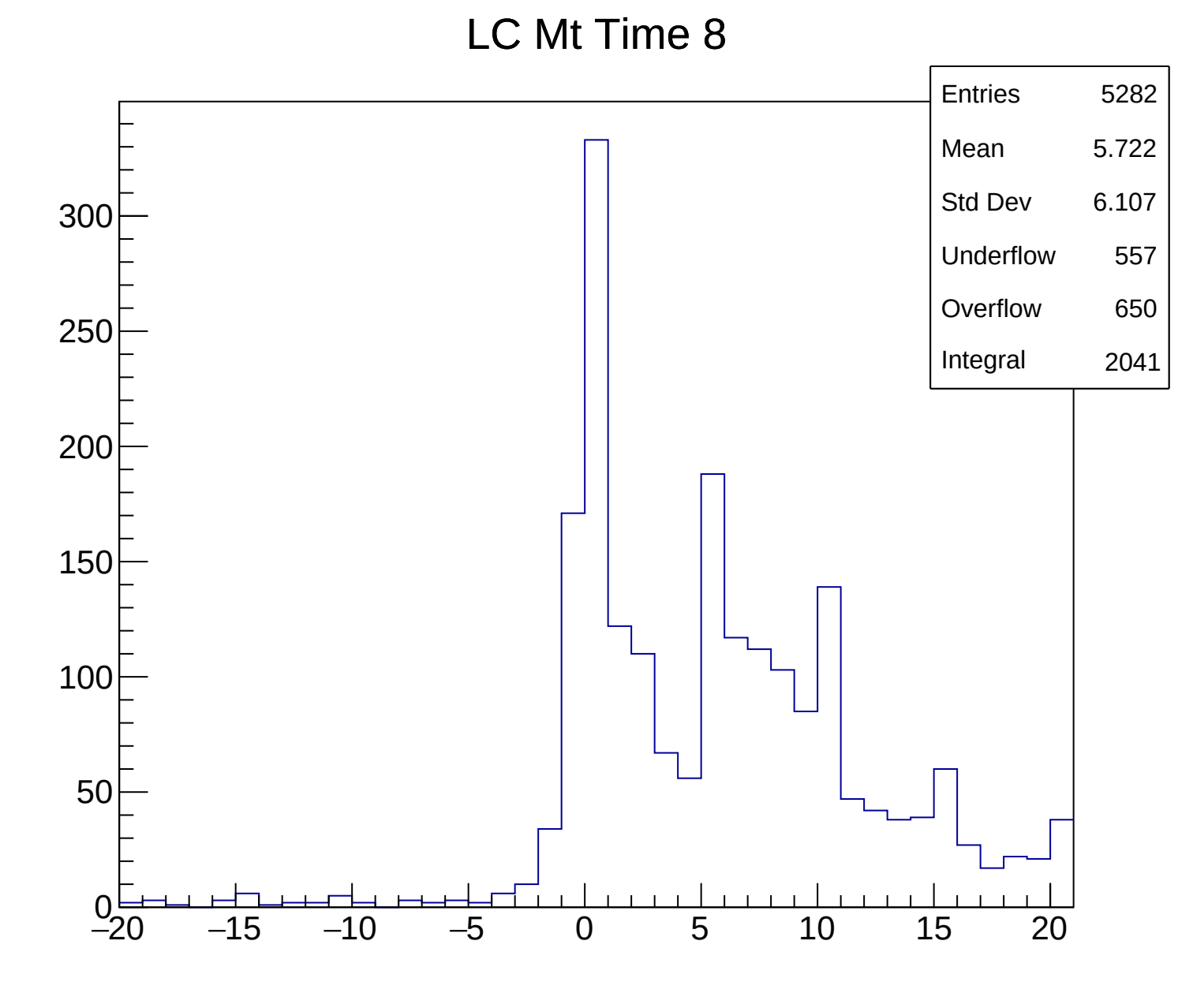
LC Mt Time 8
Entries 5282
Mean 5.722
Std Dev 6.107
Underflow 557
Overflow 650
Integral 2041
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200
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100
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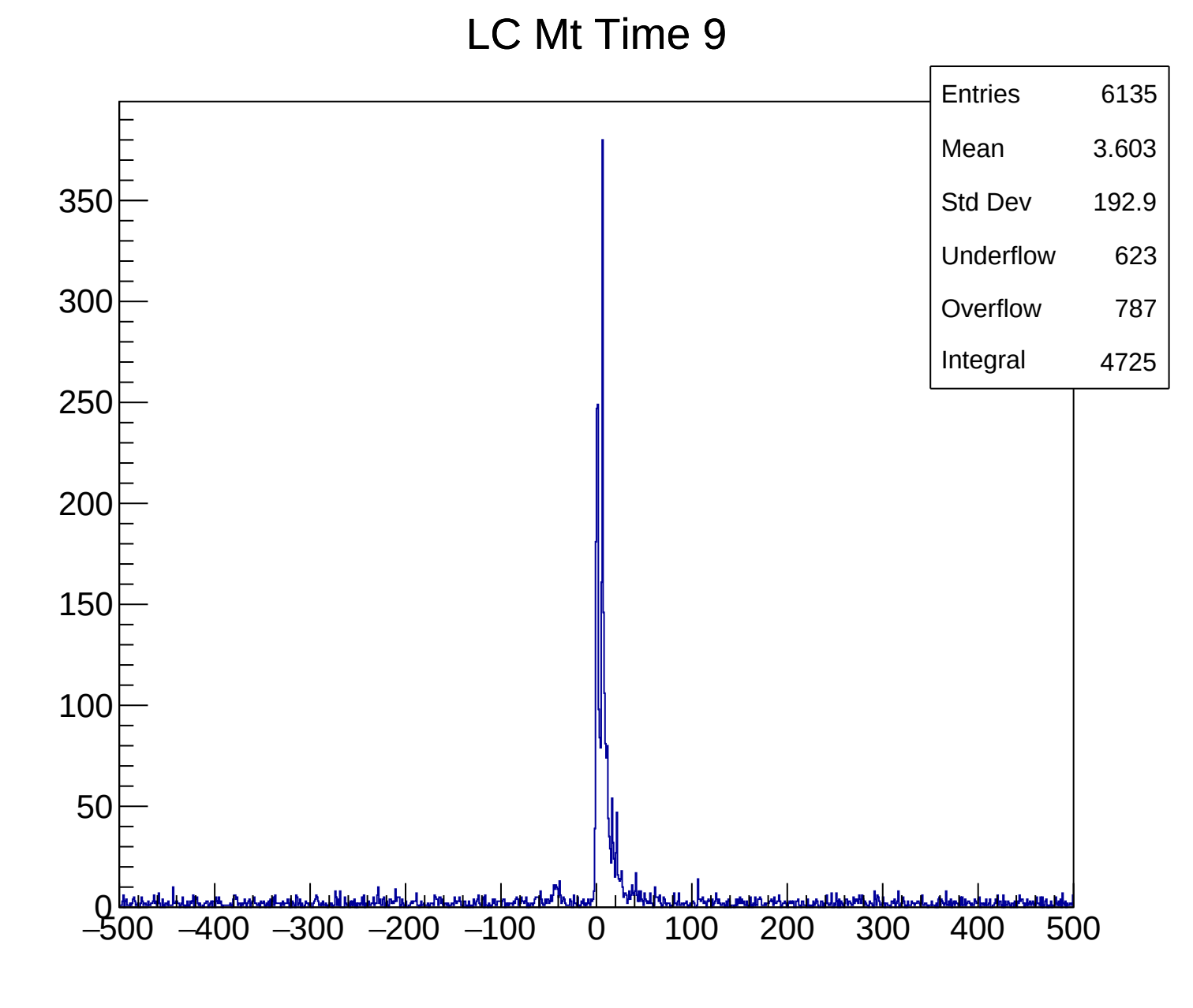
LC Mt Time 9
Entries 6135
Mean 3.603
Std Dev 192.9
Underflow 623
Overflow 787
Integral 4725
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100
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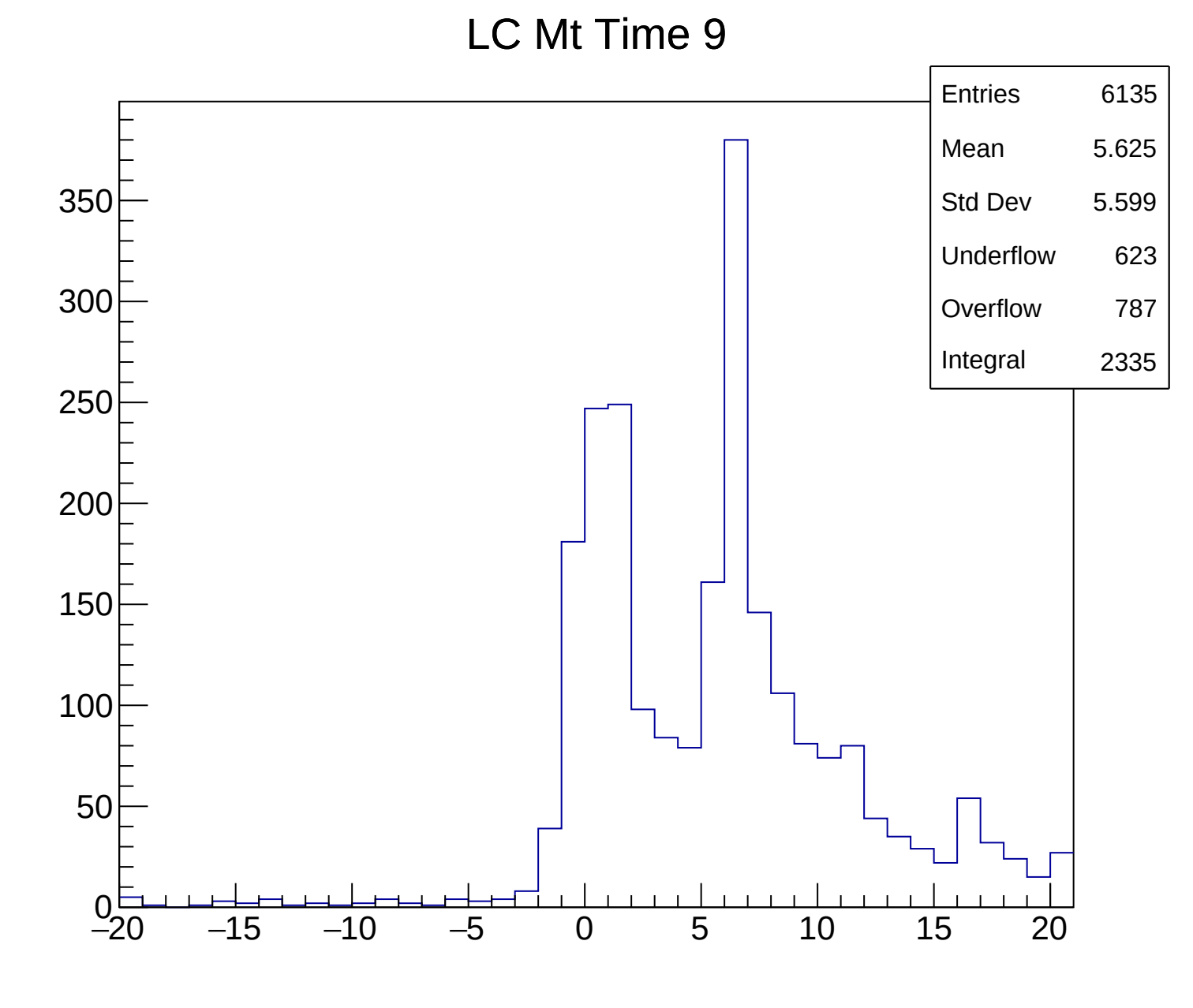
LC Mt Time 9
Entries 6135
Mean 5.625
Std Dev 5.599
Underflow 623
Overflow 787
Integral 2335
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250
200
150
100
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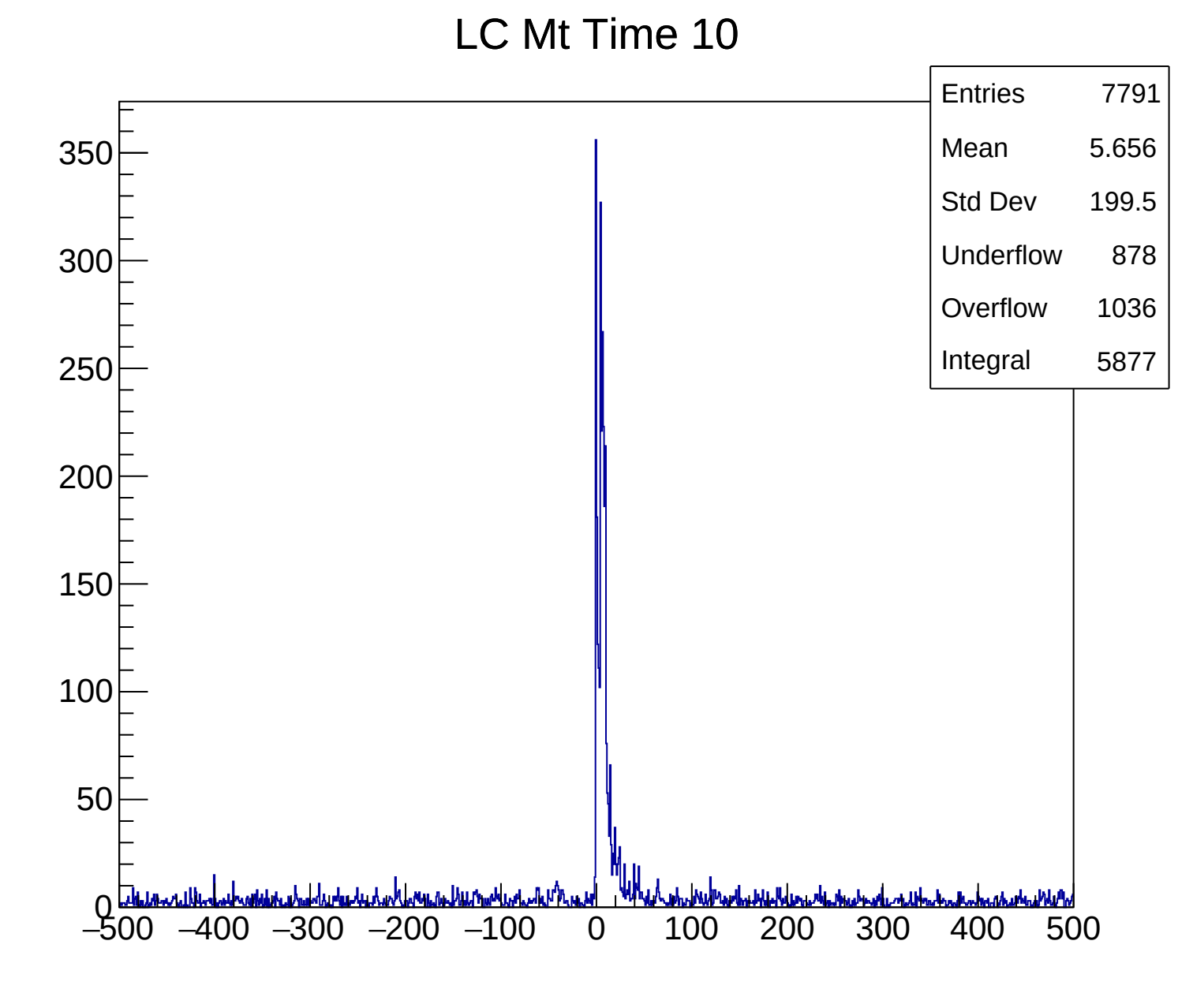
LC Mt Time 10
Entries 7791
Mean 5.656
Std Dev 199.5
Underflow 878
Overflow 1036
Integral 5877
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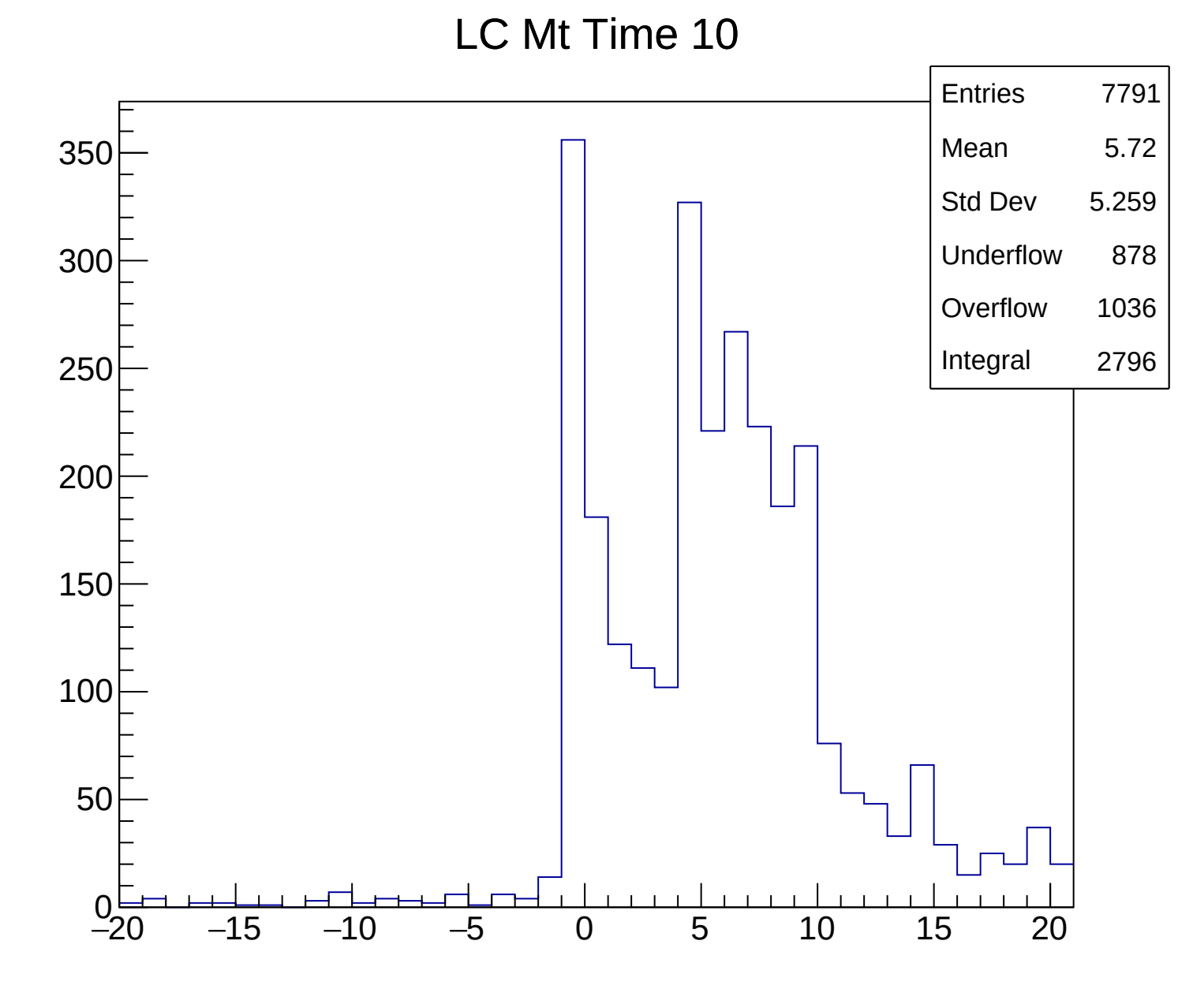
LC Mt Time 10
Entries 7791
Mean 5.72
Std Dev 5.259
Underflow 878
Overflow 1036
Integral 2796
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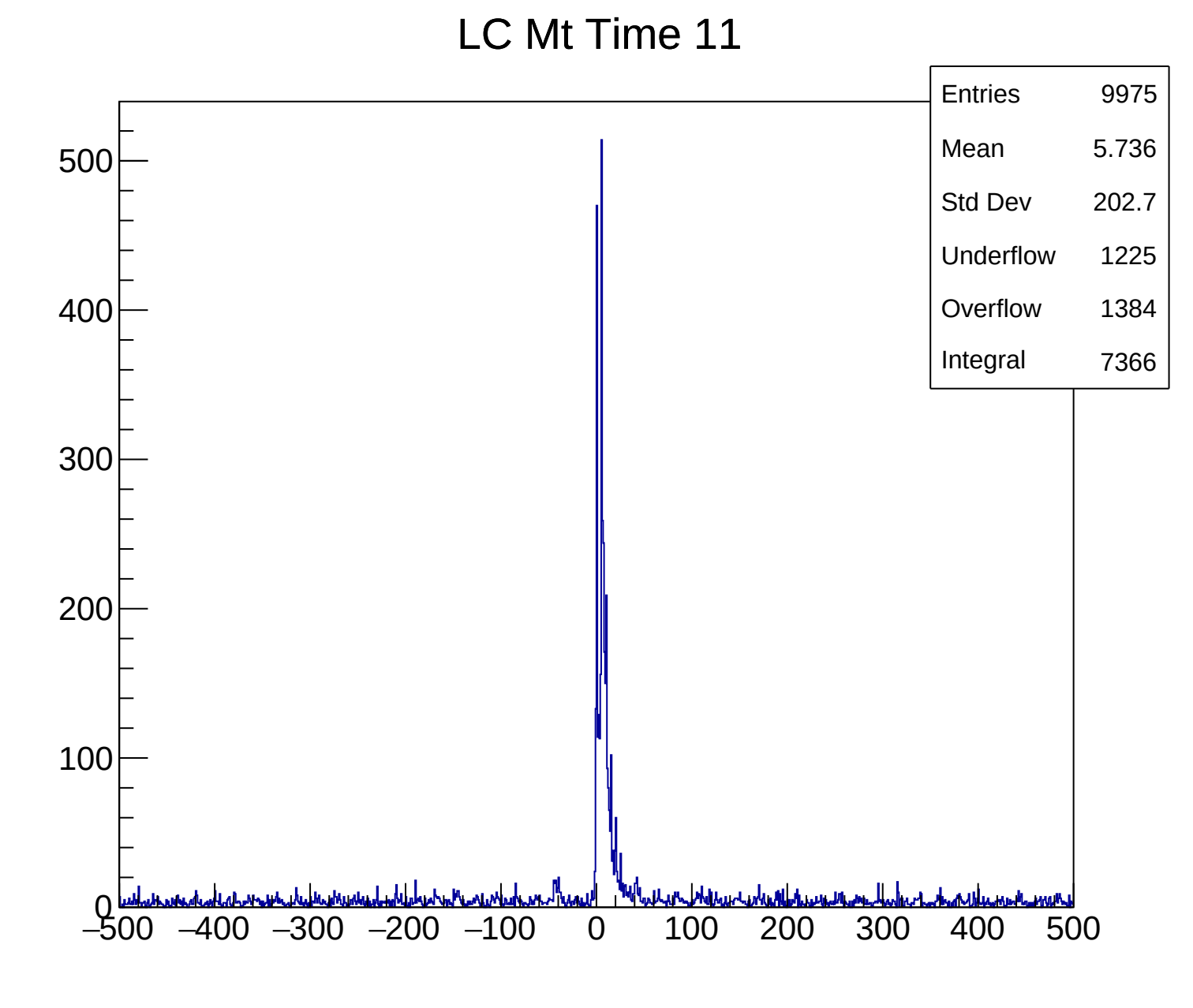
LC Mt Time 11
Entries 9975
Mean 5.736
Std Dev 202.7
Underflow 1225
Overflow 1384
Integral 7366
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200
100
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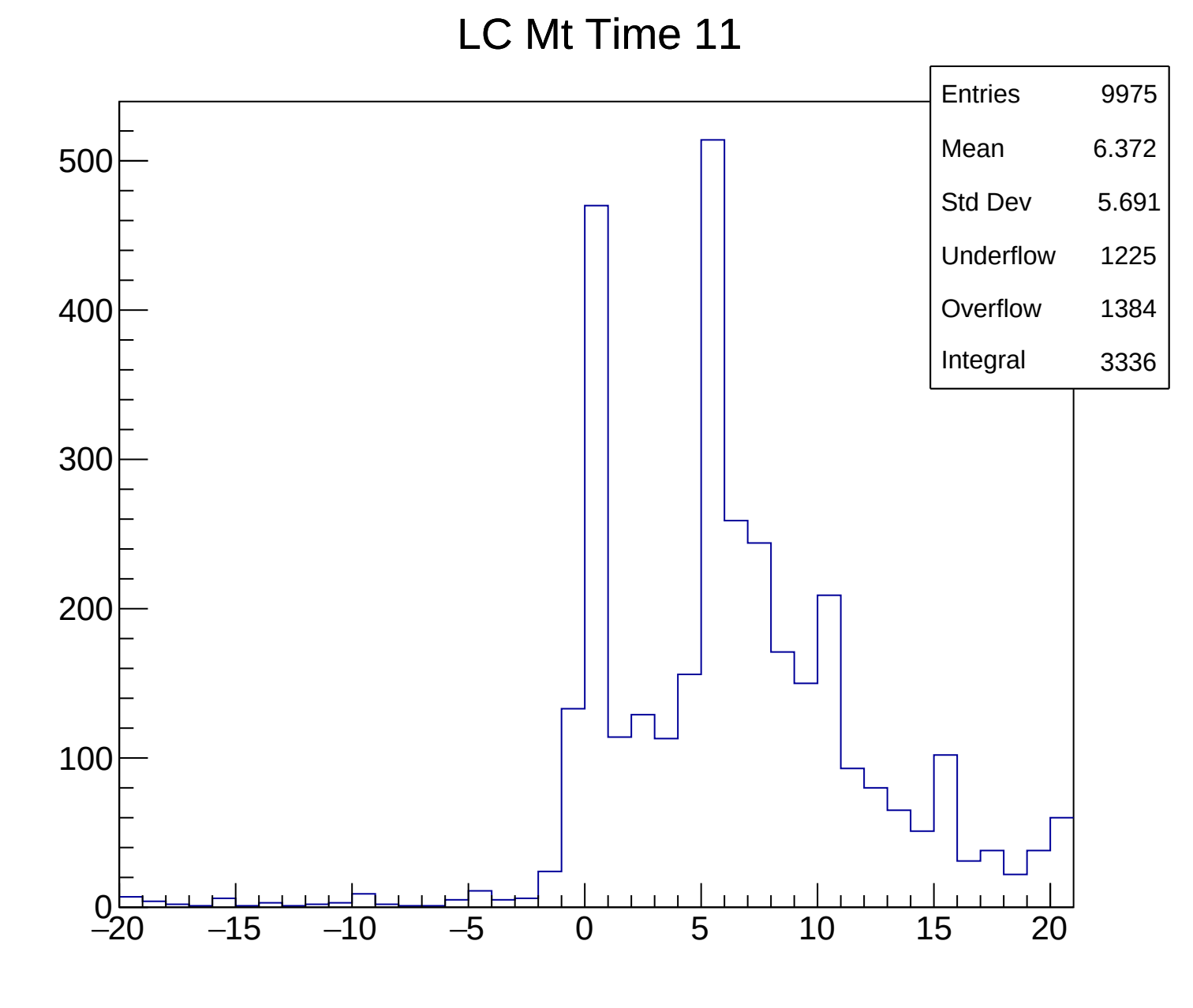
LC Mt Time 11
Entries 9975
Mean 6.372
Std Dev 5.691
Underflow 1225
Overflow 1384
Integral 3336
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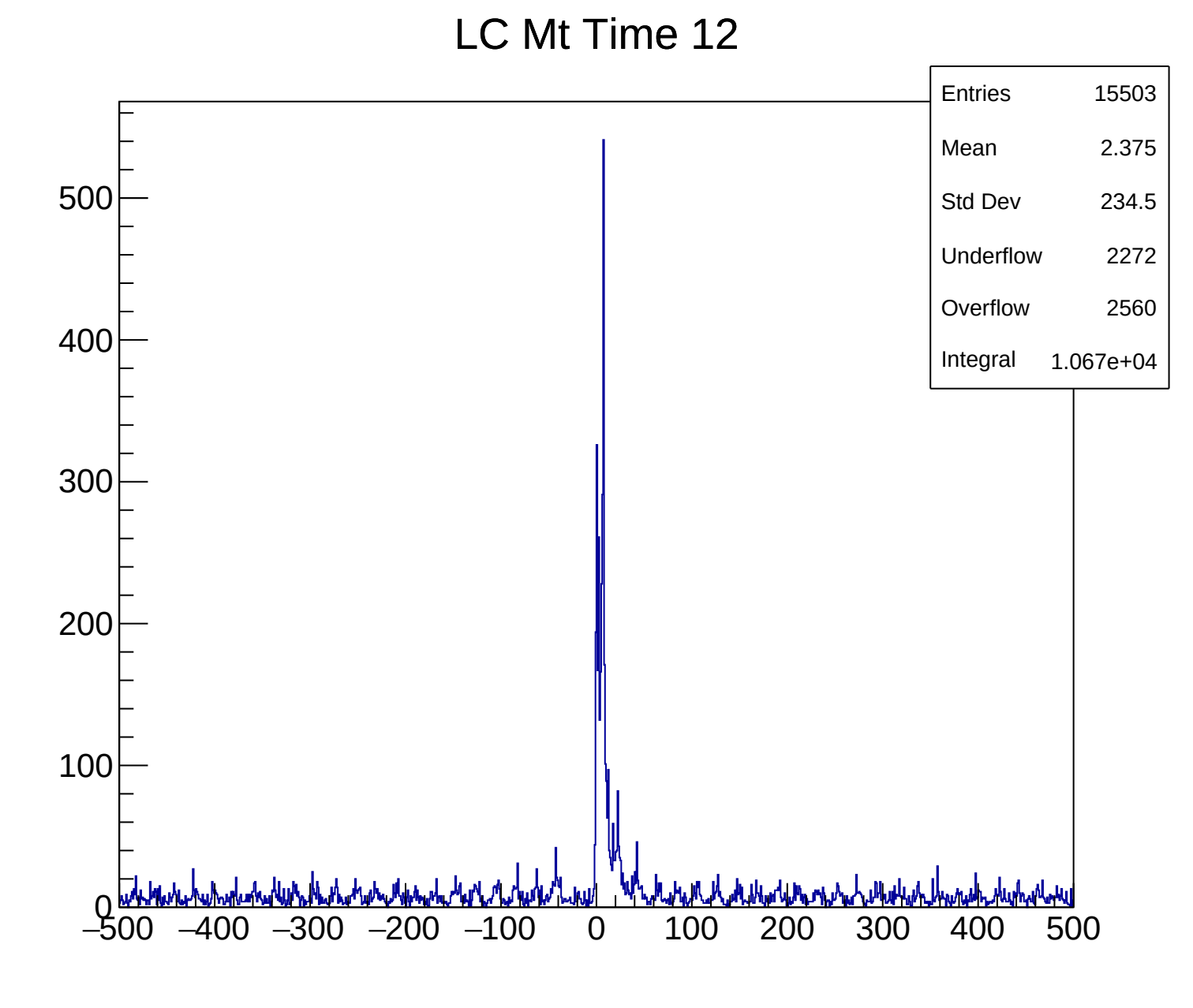
LC Mt Time 12
Entries 15503
Mean 2.375
Std Dev 234.5
Underflow 2272
Overflow 2560
Integral 1.067e+04
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300
200
100
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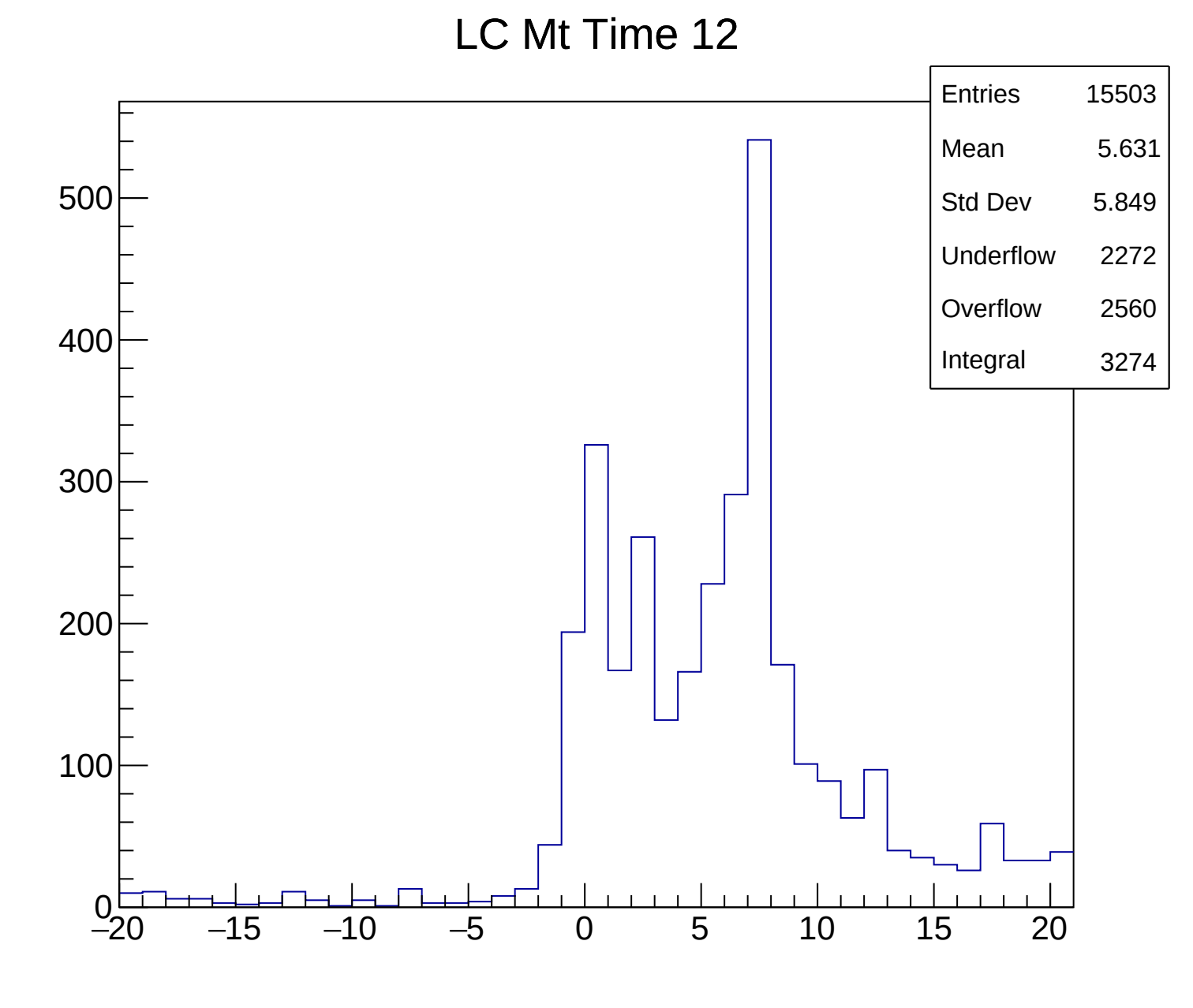
LC Mt Time 12
Entries 15503
Mean 5.631
Std Dev 5.849
Underflow 2272
Overflow 2560
Integral 3274
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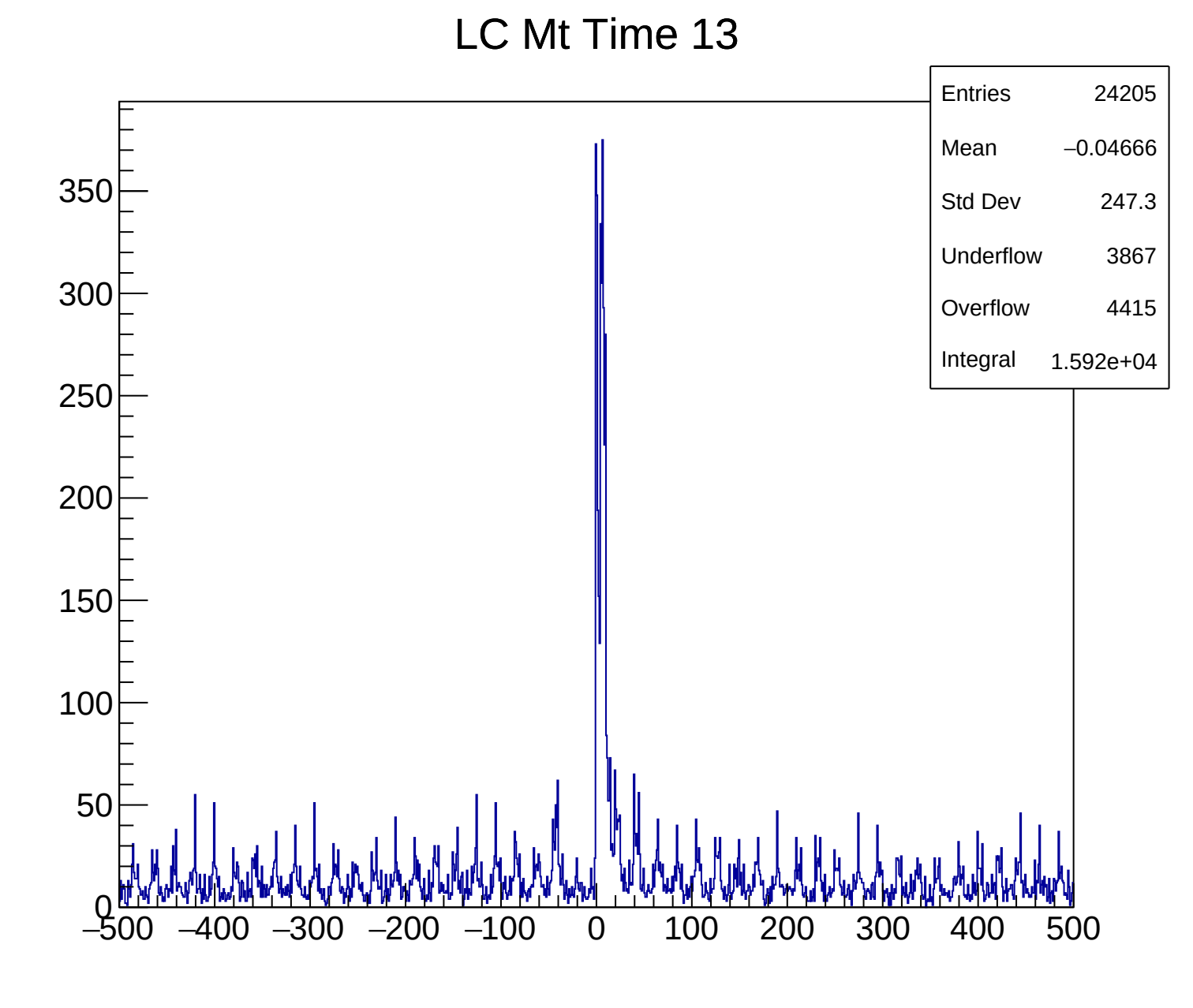
LC Mt Time 13
Entries 24205
Mean –0.04666
Std Dev 247.3
Underflow 3867
Overflow 4415
Integral 1.592e+04
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100
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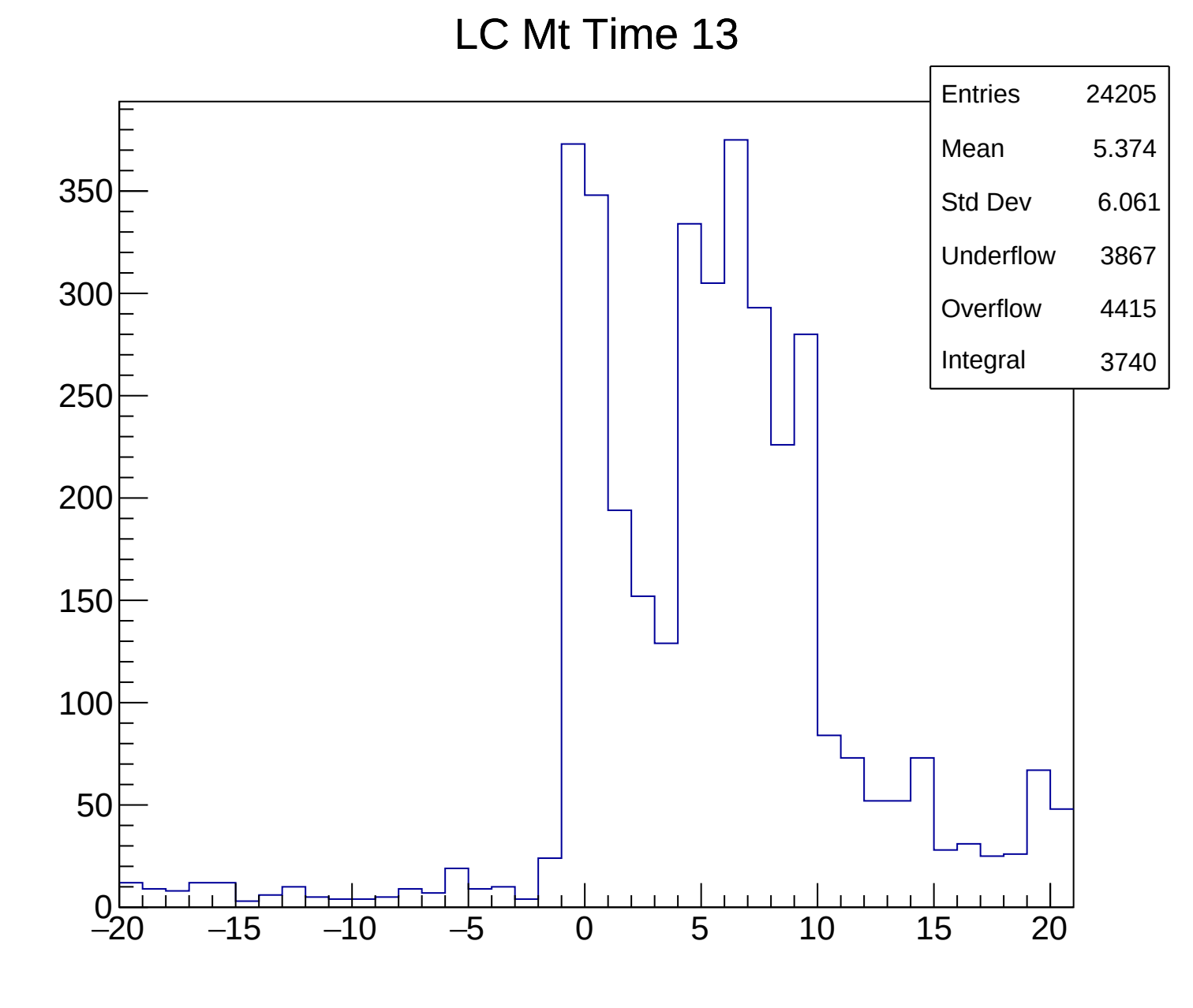
LC Mt Time 13
Entries 24205
Mean 5.374
Std Dev 6.061
Underflow 3867
Overflow 4415
Integral 3740
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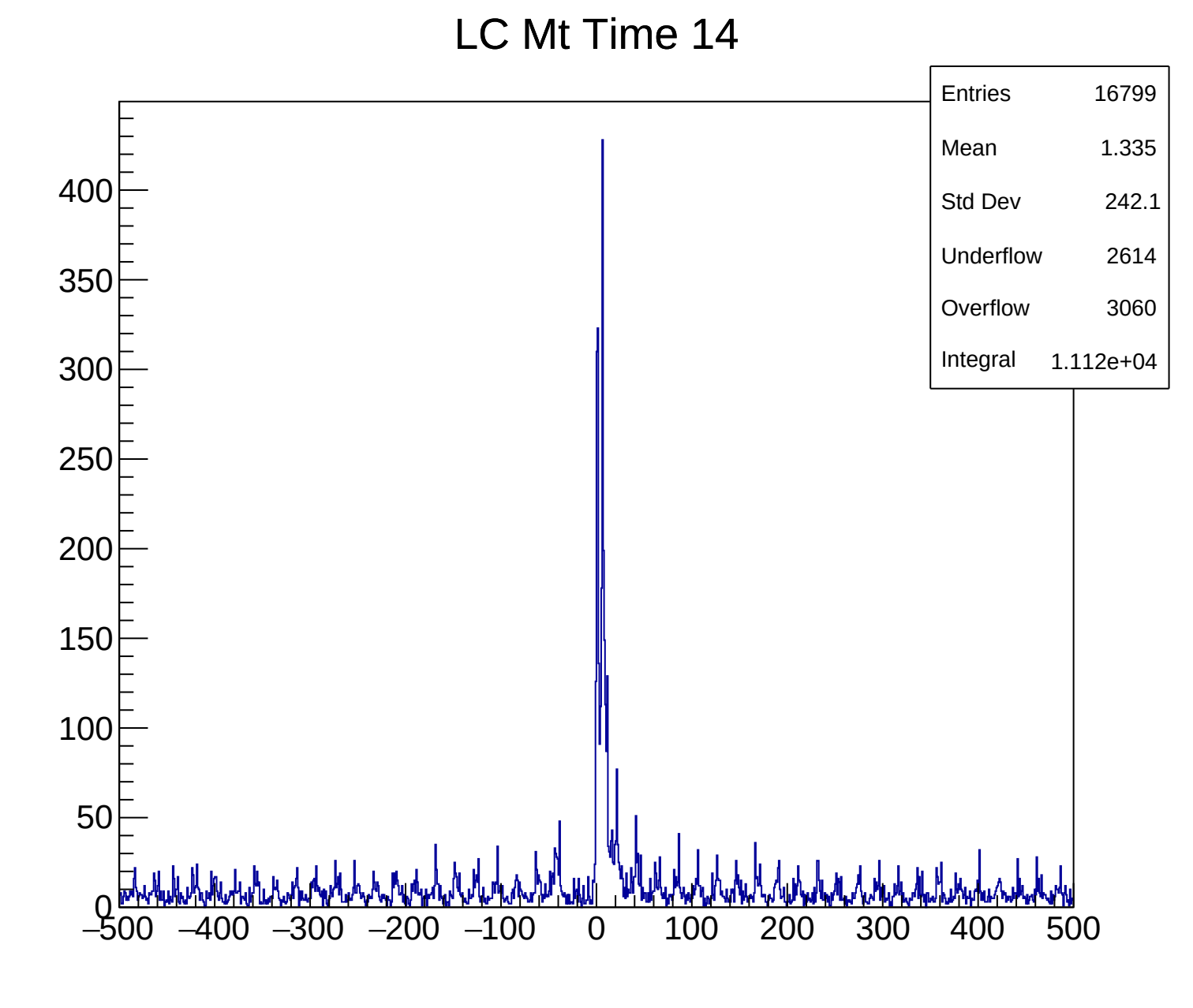
LC Mt Time 14
Entries 16799
Mean 1.335
Std Dev 242.1
Underflow 2614
Overflow 3060
Integral 1.112e+04
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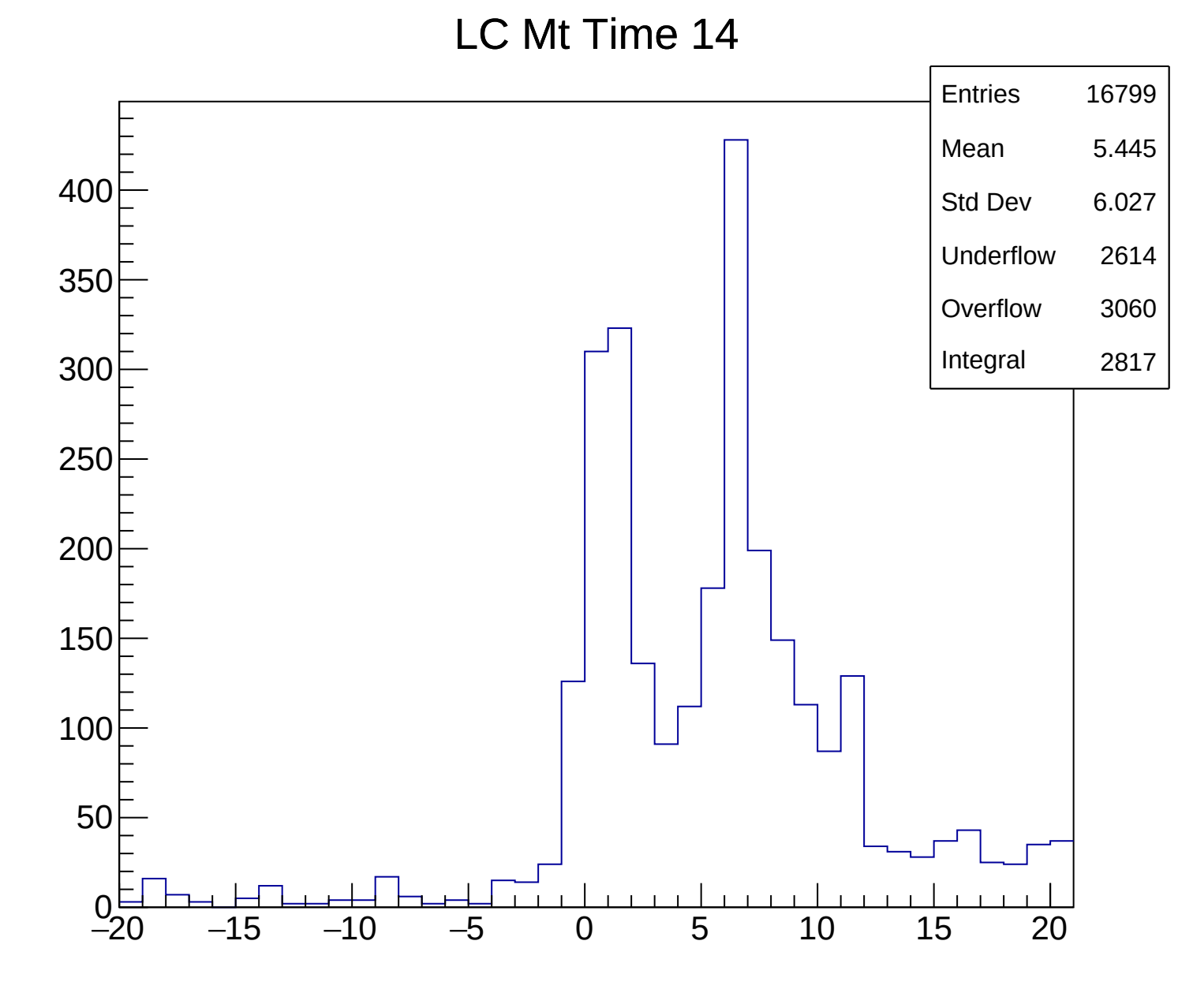
LC Mt Time 14
Entries 16799
Mean 5.445
Std Dev 6.027
Underflow 2614
Overflow 3060
Integral 2817
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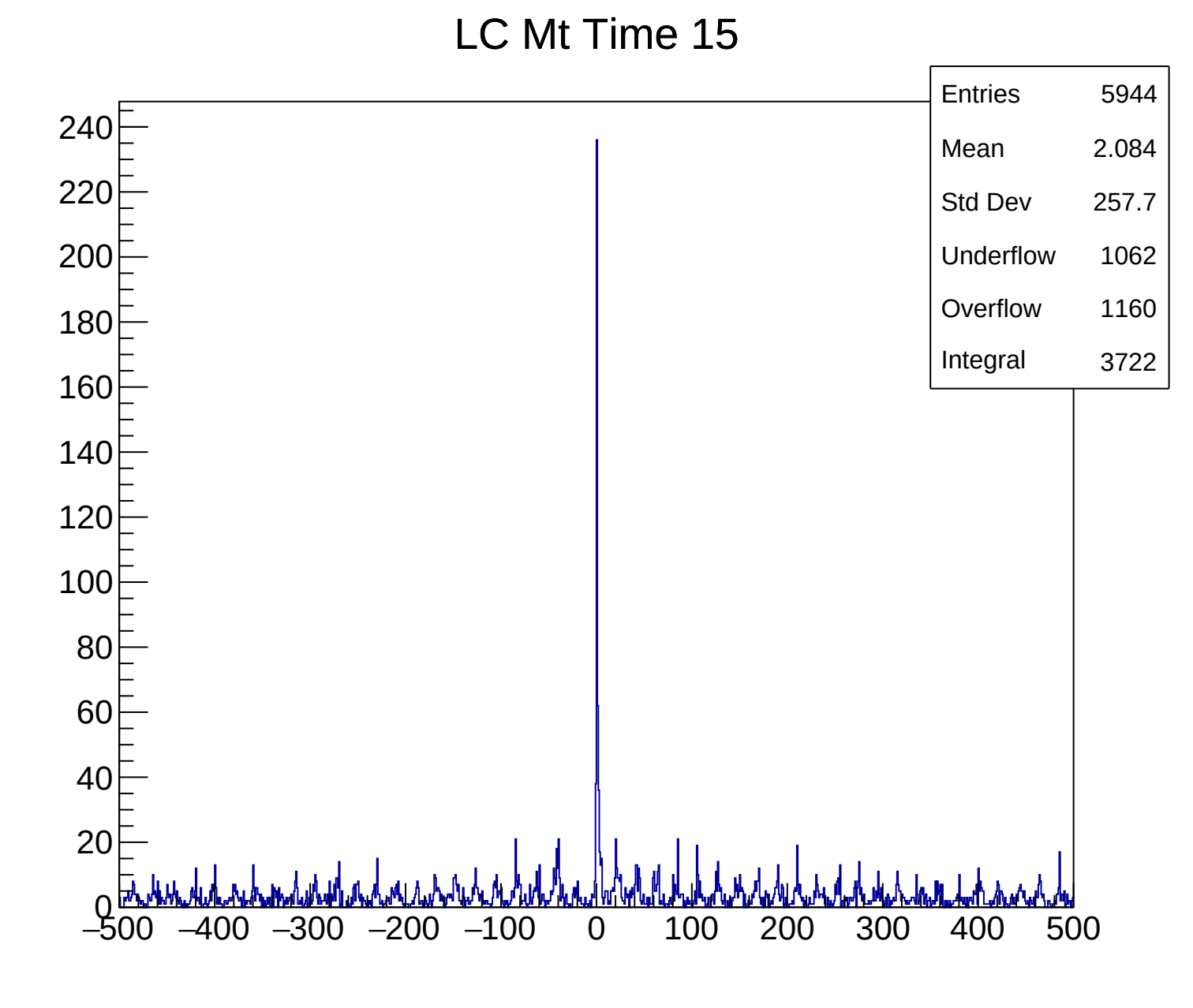
LC Mt Time 15
Entries 5944
Mean 2.084
Std Dev 257.7
Underflow 1062
Overflow 1160
Integral 3722
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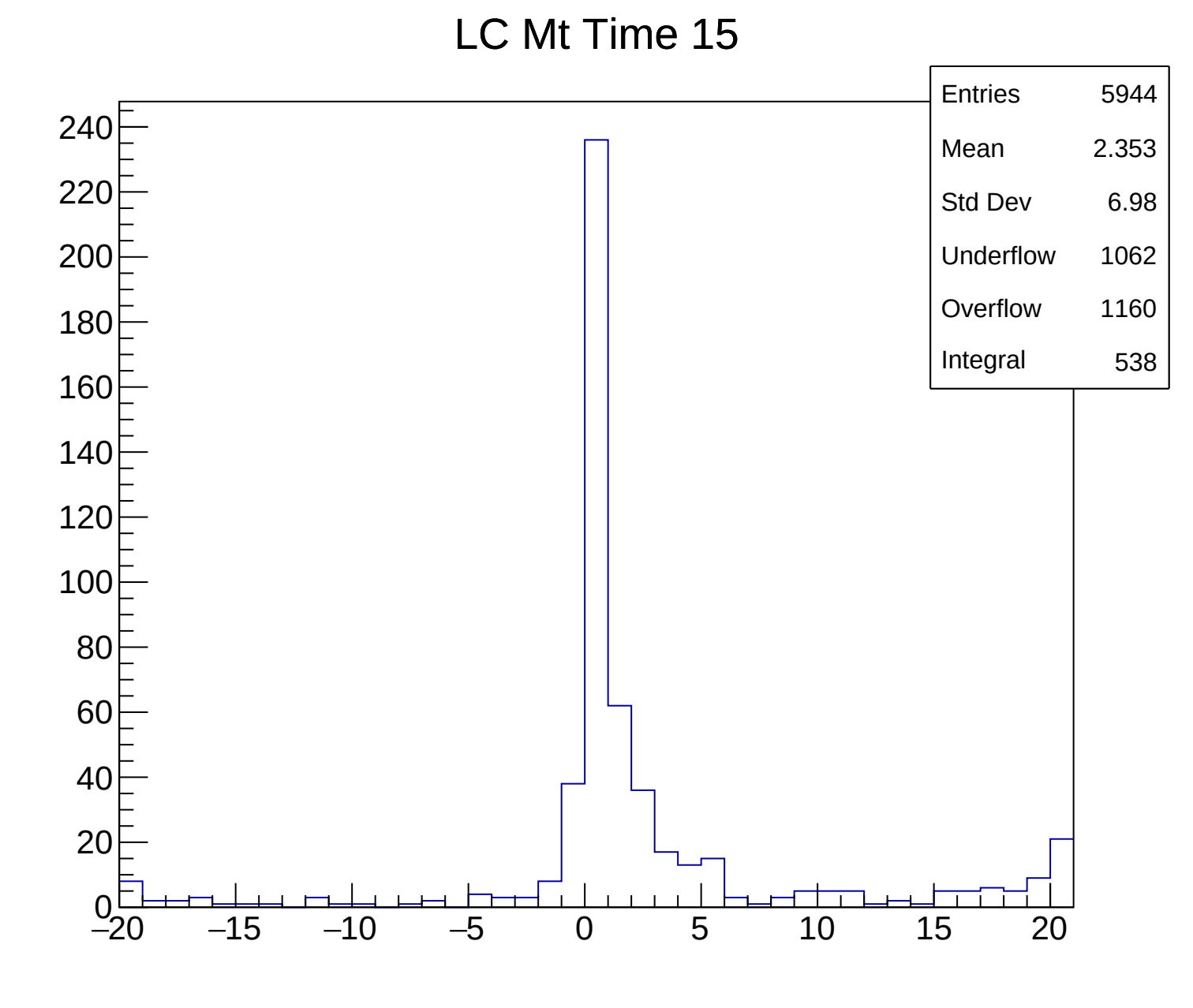
LC Mt Time 15
Entries 5944
Mean 2.353
Std Dev 6.98
Underflow 1062
Overflow 1160
Integral 538
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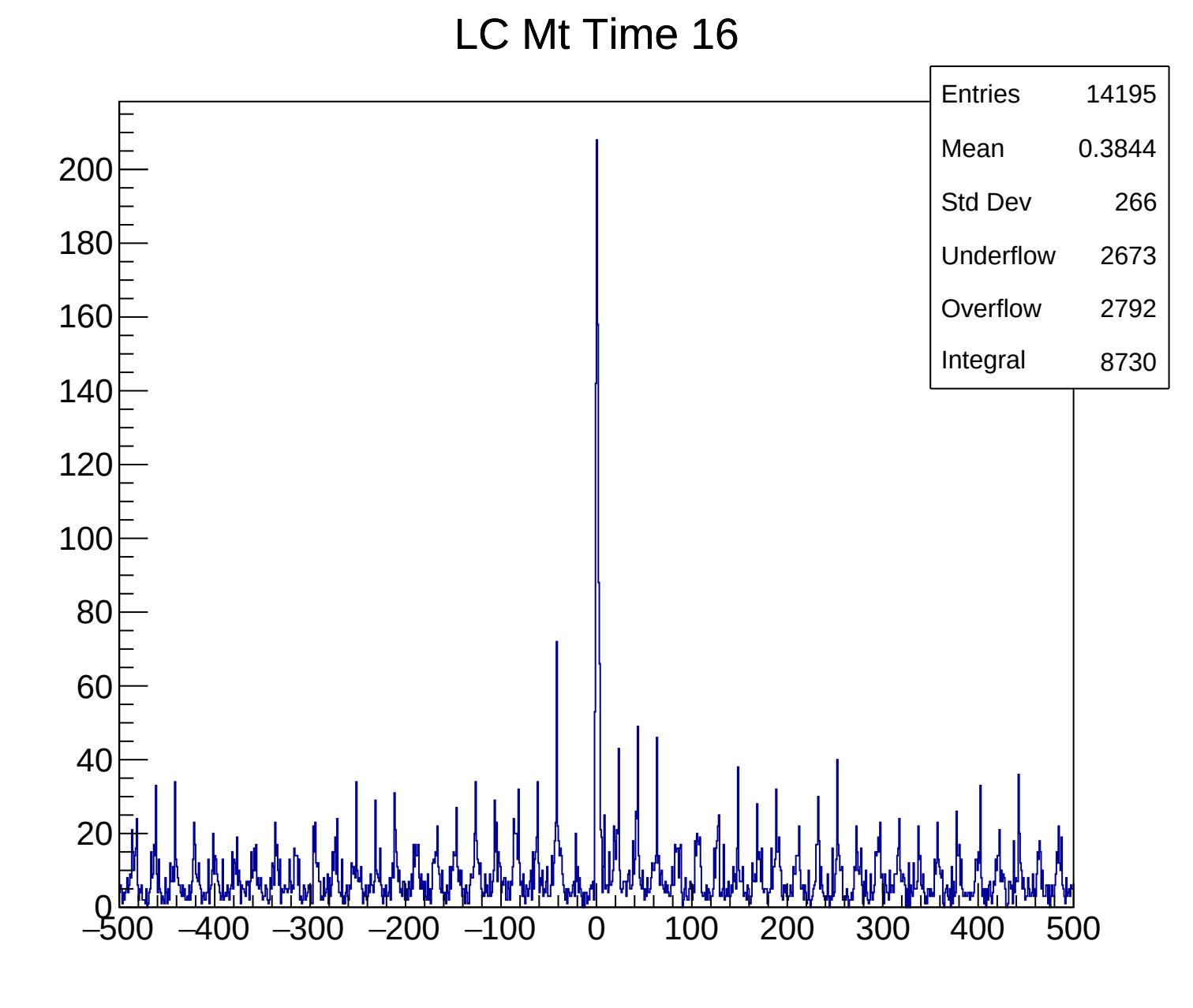
LC Mt Time 16
Entries 14195
Mean 0.3844
Std Dev 266
Underflow 2673
Overflow 2792
Integral 8730
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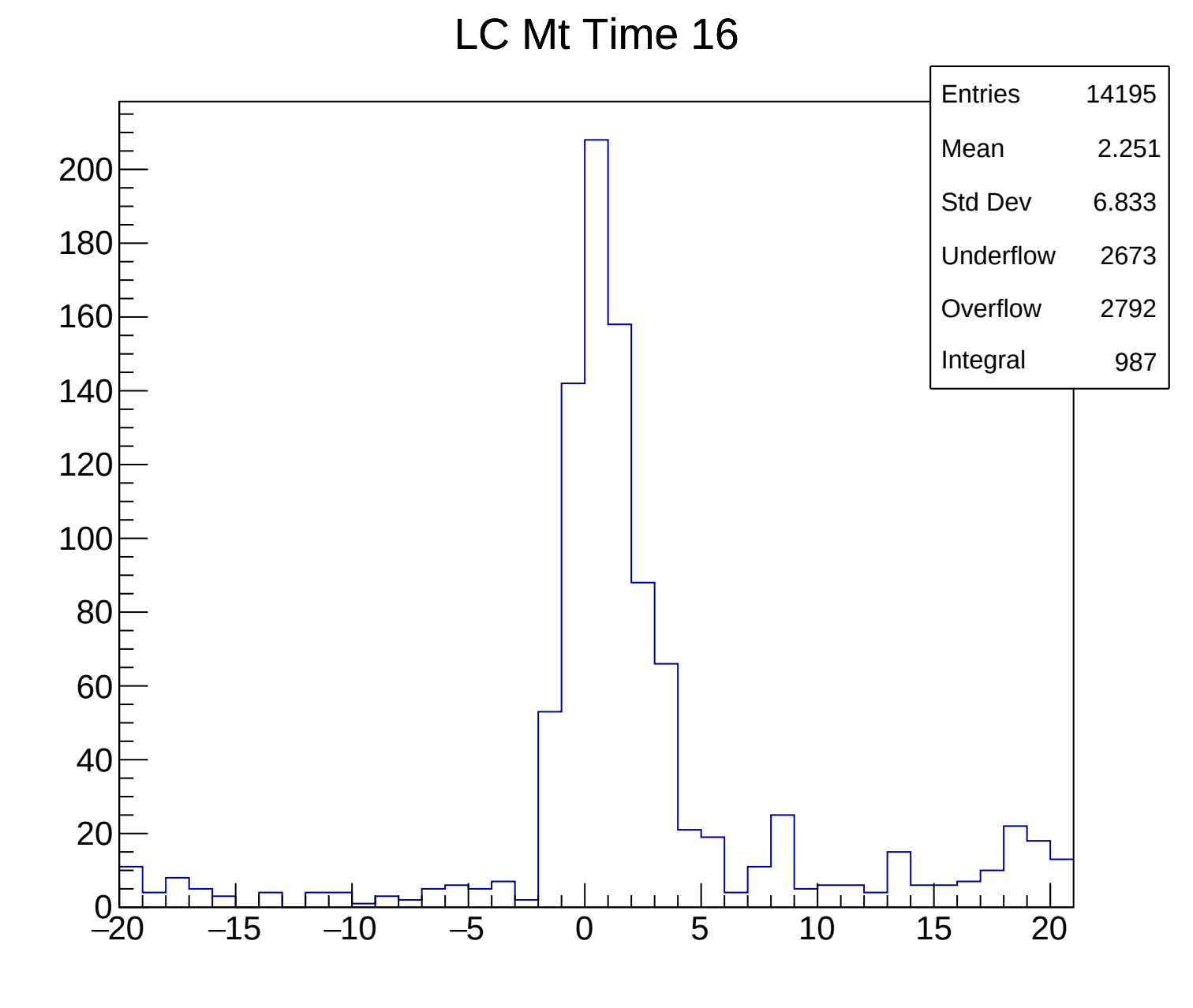
LC Mt Time 16
Entries 14195
Mean 2.251
Std Dev 6.833
Underflow 2673
Overflow 2792
Integral 987
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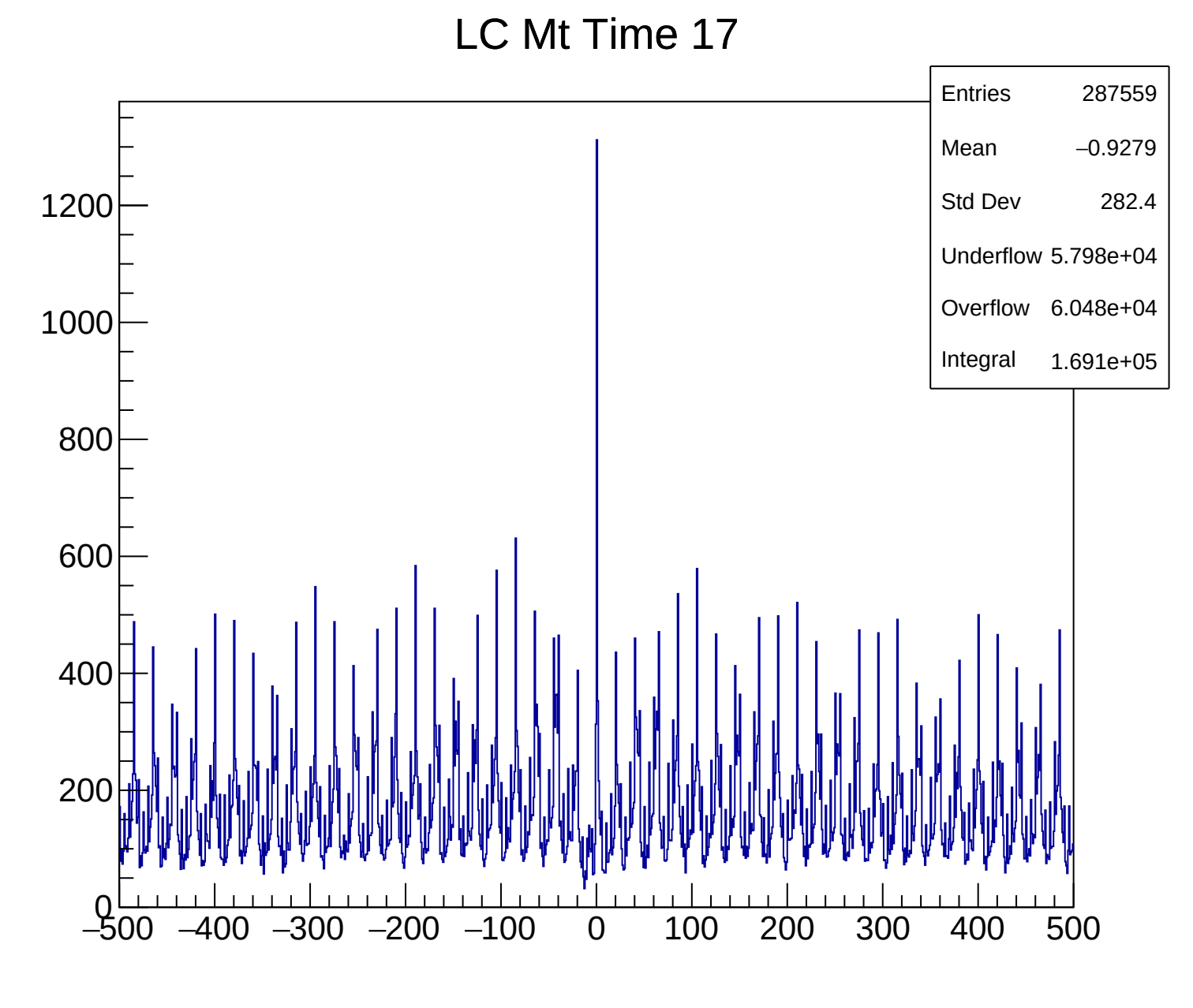
LC Mt Time 17
Entries 287559
Mean –0.9279
Std Dev 282.4
Underflow 5.798e+04
Overflow 6.048e+04
Integral 1.691e+05
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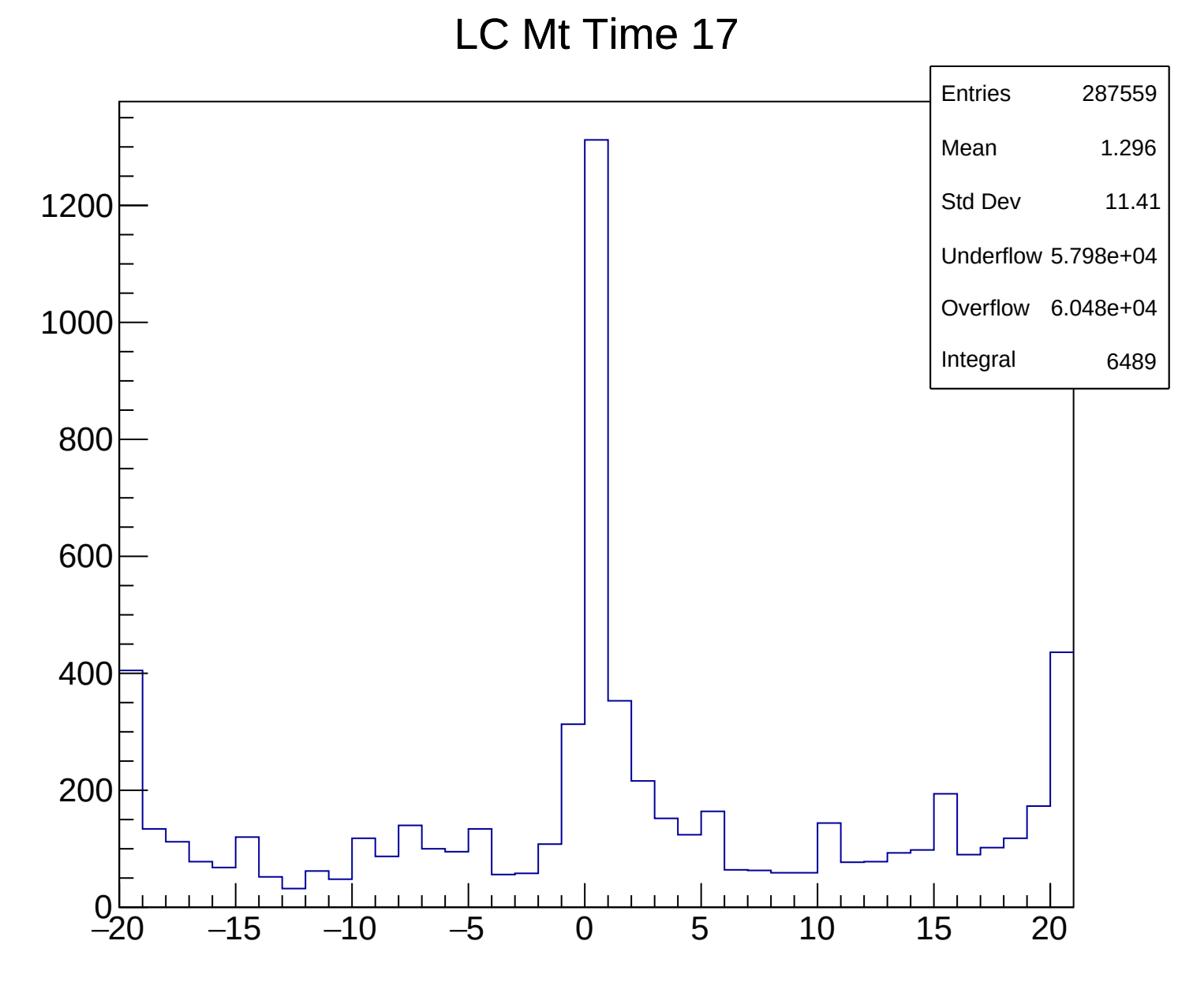
LC Mt Time 17
Entries 287559
Mean 1.296
Std Dev 11.41
Underflow 5.798e+04
Overflow 6.048e+04
Integral 6489
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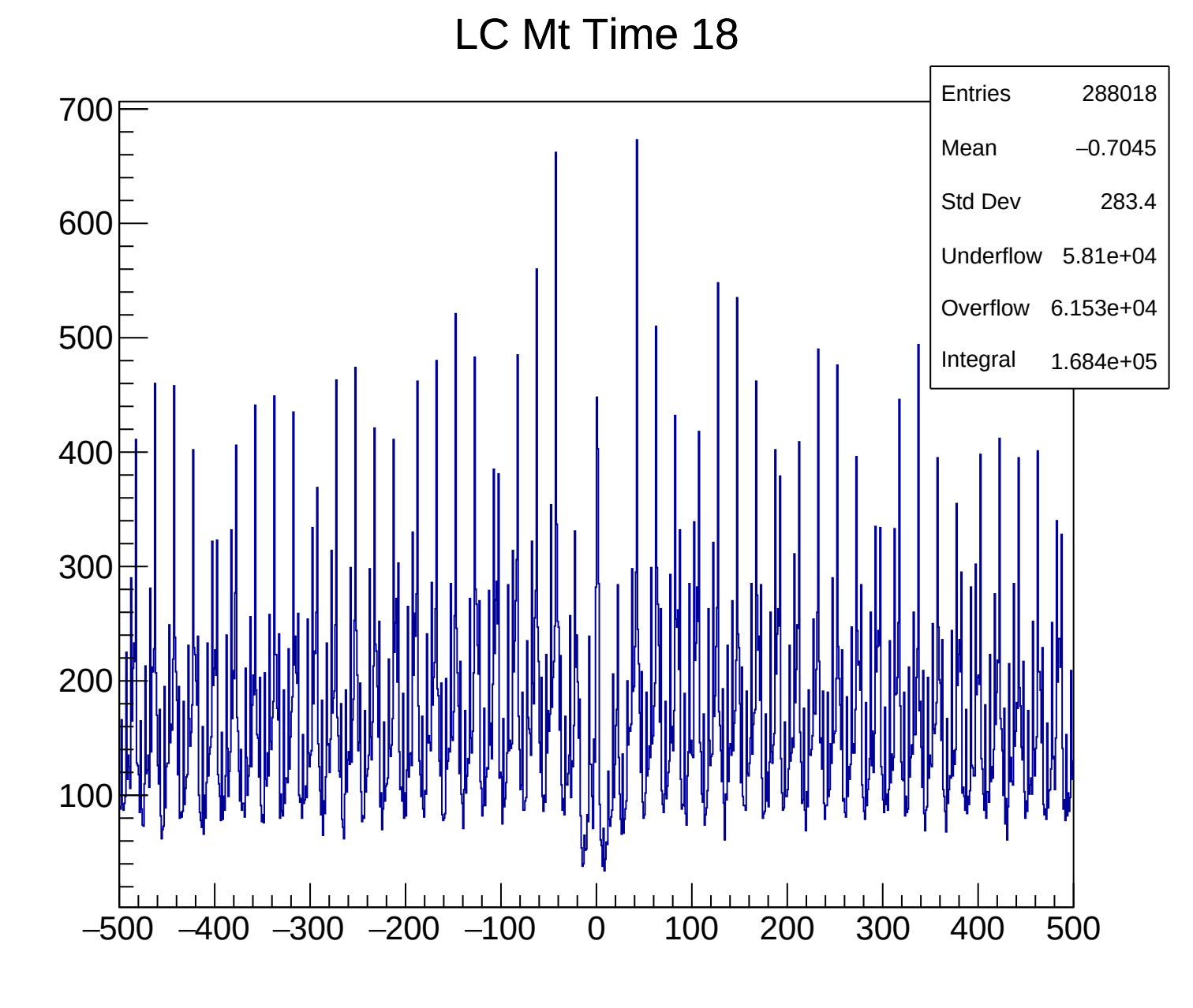
LC Mt Time 18
Entries 288018
Mean –0.7045
Std Dev 283.4
Underflow 5.81e+04
Overflow 6.153e+04
Integral 1.684e+05
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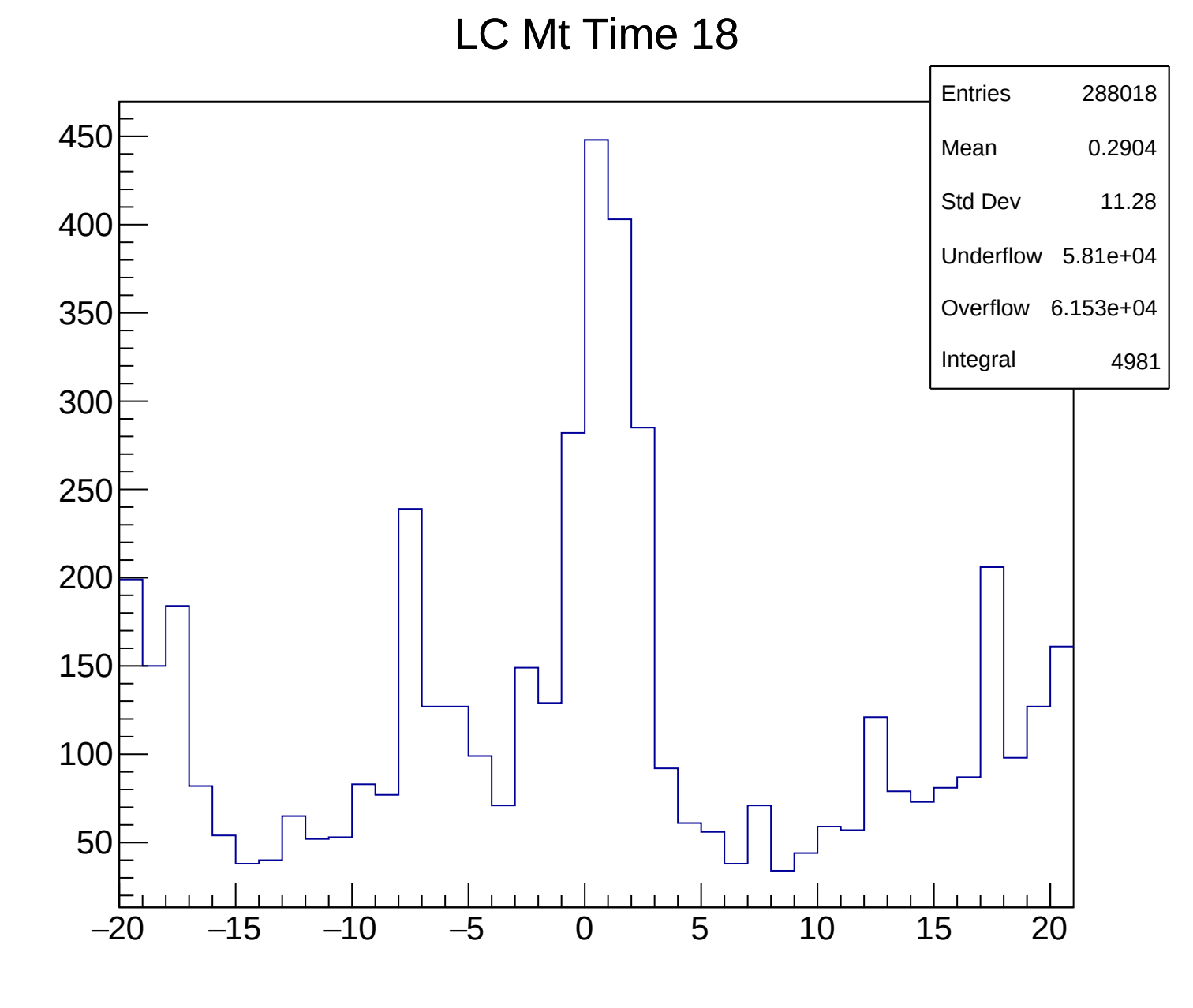
LC Mt Time 18
Entries 288018
Mean 0.2904
Std Dev 11.28
Underflow 5.81e+04
Overflow 6.153e+04
Integral 4981
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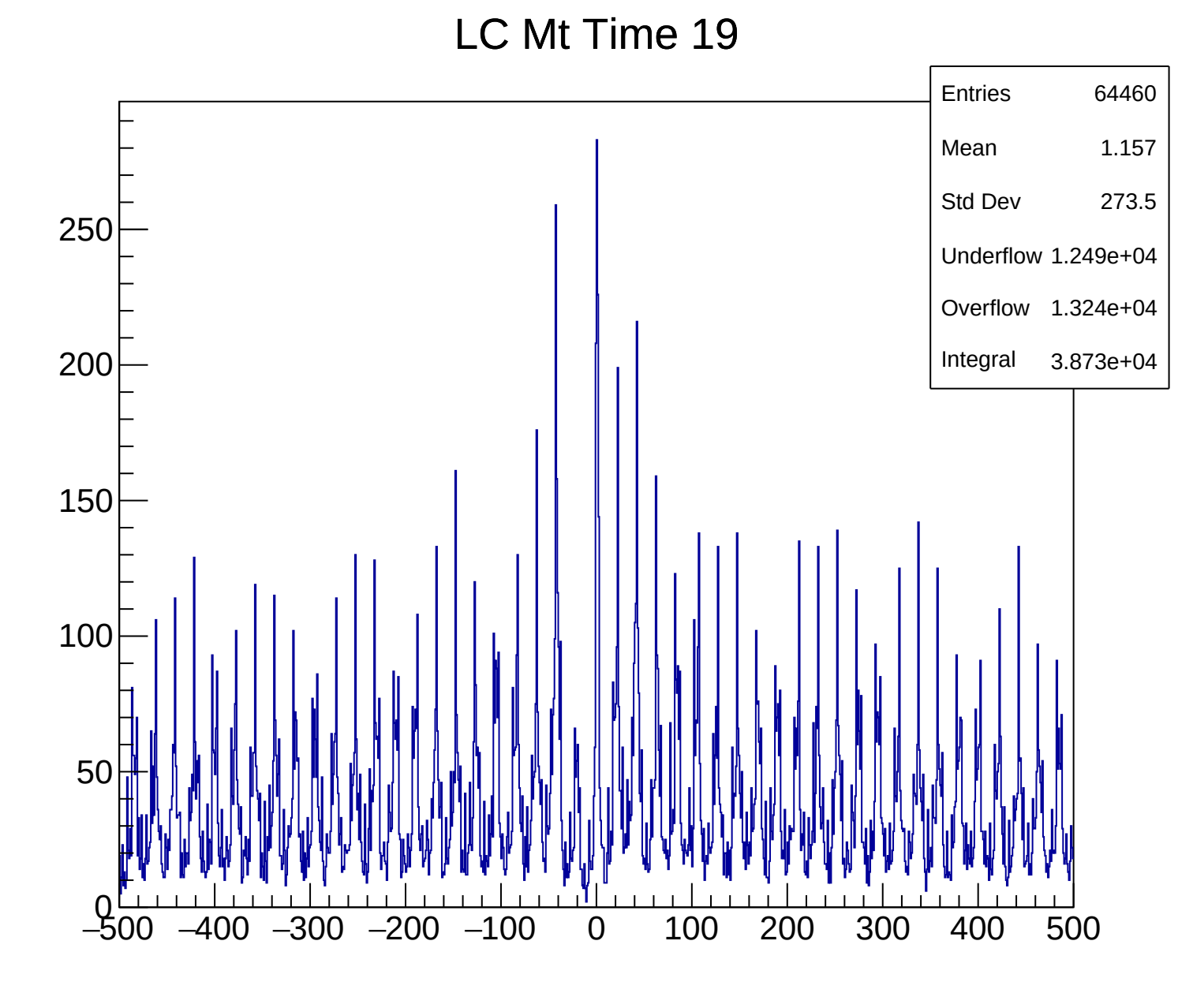
LC Mt Time 19
Entries 64460
Mean 1.157
Std Dev 273.5
Underflow 1.249e+04
Overflow 1.324e+04
Integral 3.873e+04
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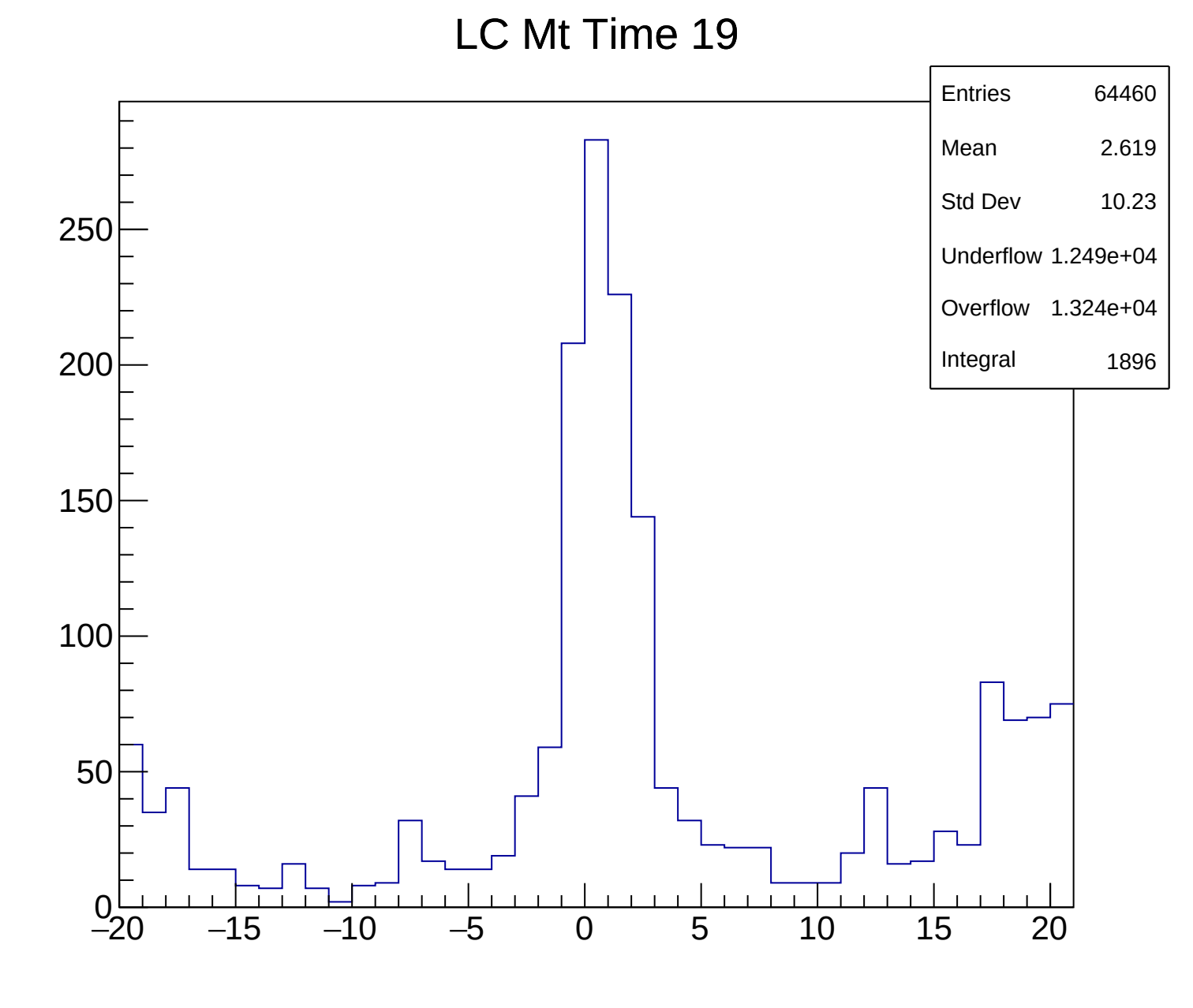
LC Mt Time 19
Entries 64460
Mean 2.619
Std Dev 10.23
Underflow 1.249e+04
Overflow 1.324e+04
Integral 1896
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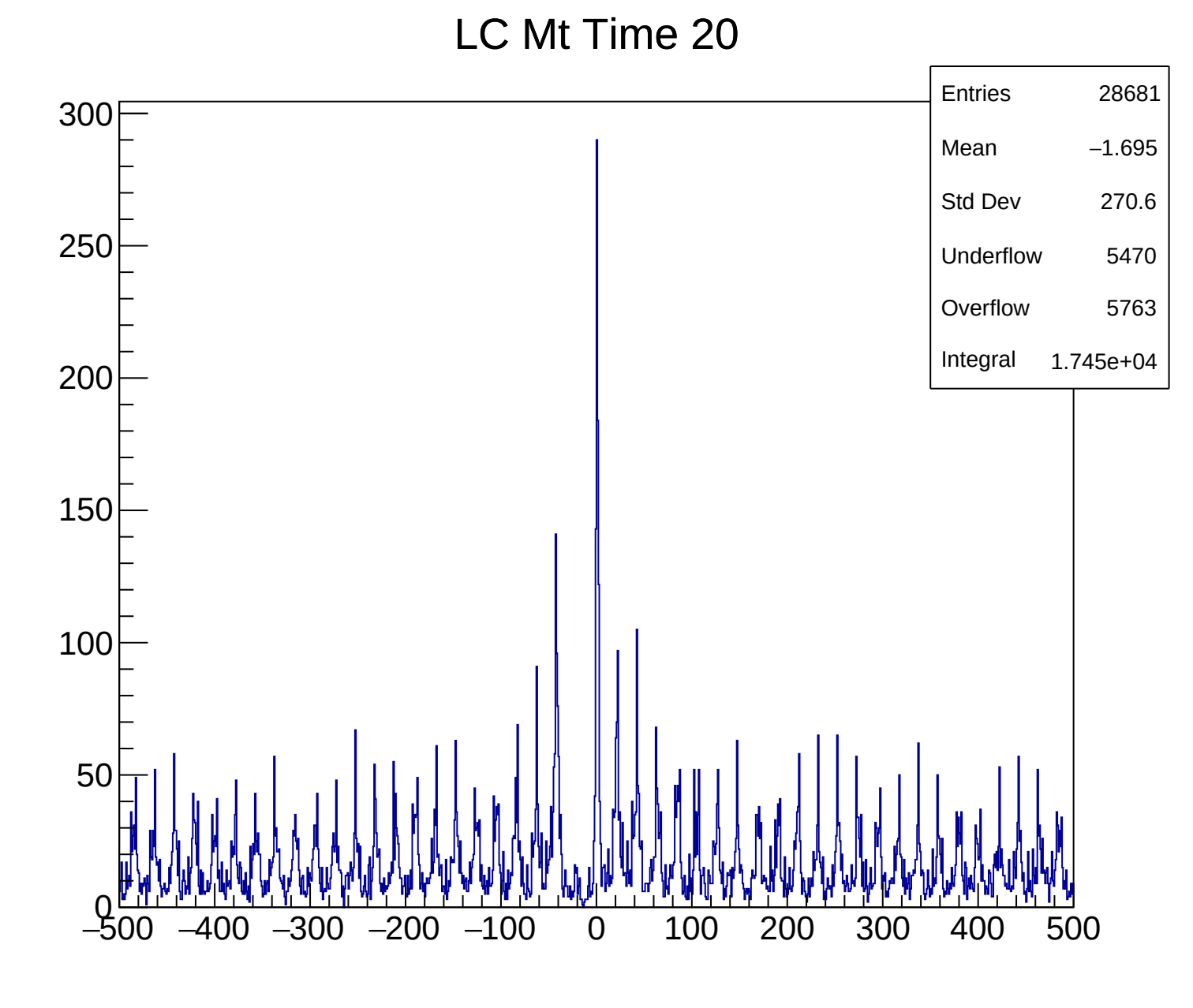
LC Mt Time 20
Entries 28681
Mean –1.695
Std Dev 270.6
Underflow 5470
Overflow 5763
Integral 1.745e+04
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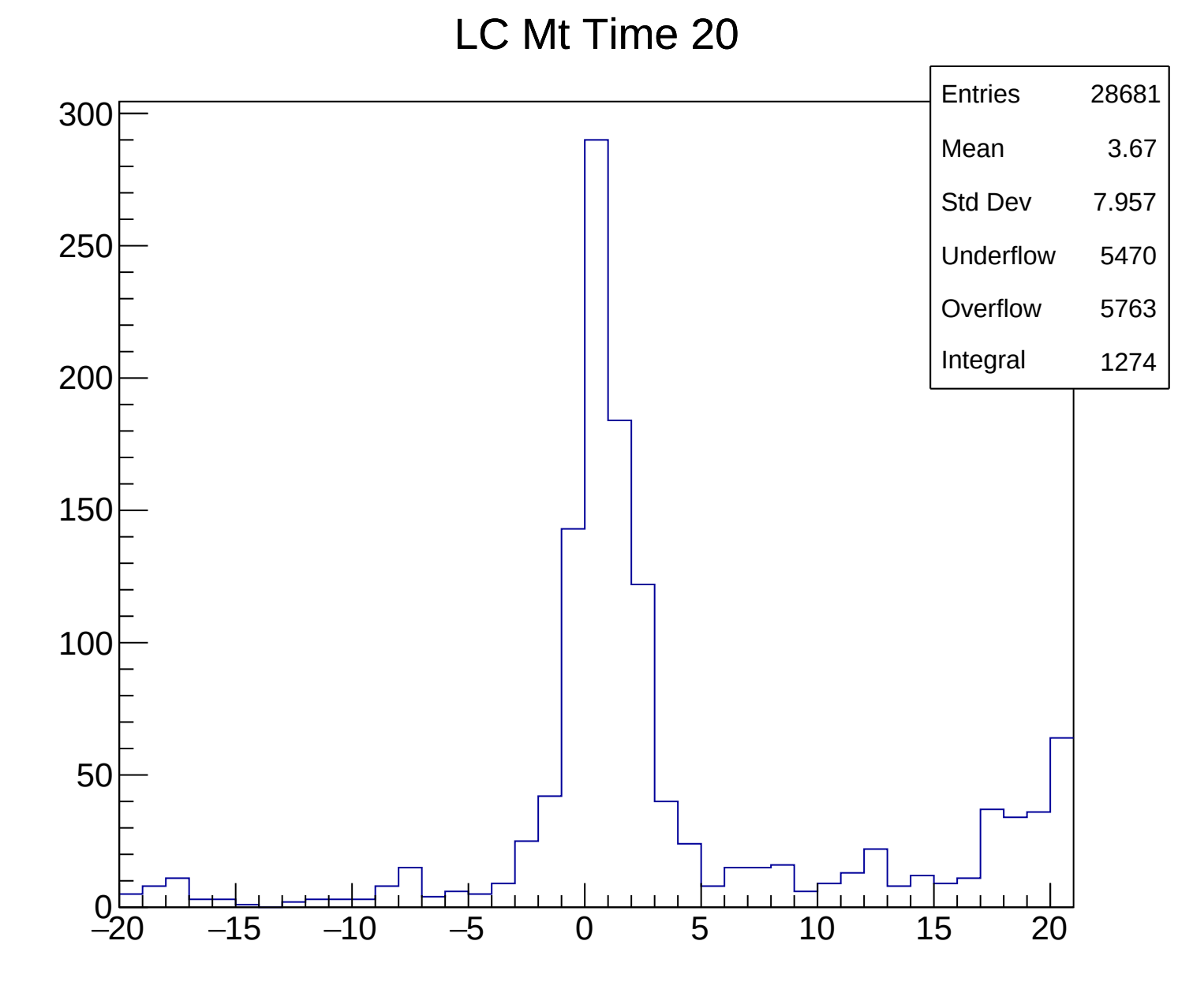
LC Mt Time 20
Entries 28681
Mean 3.67
Std Dev 7.957
Underflow 5470
Overflow 5763
Integral 1274
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150
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–10
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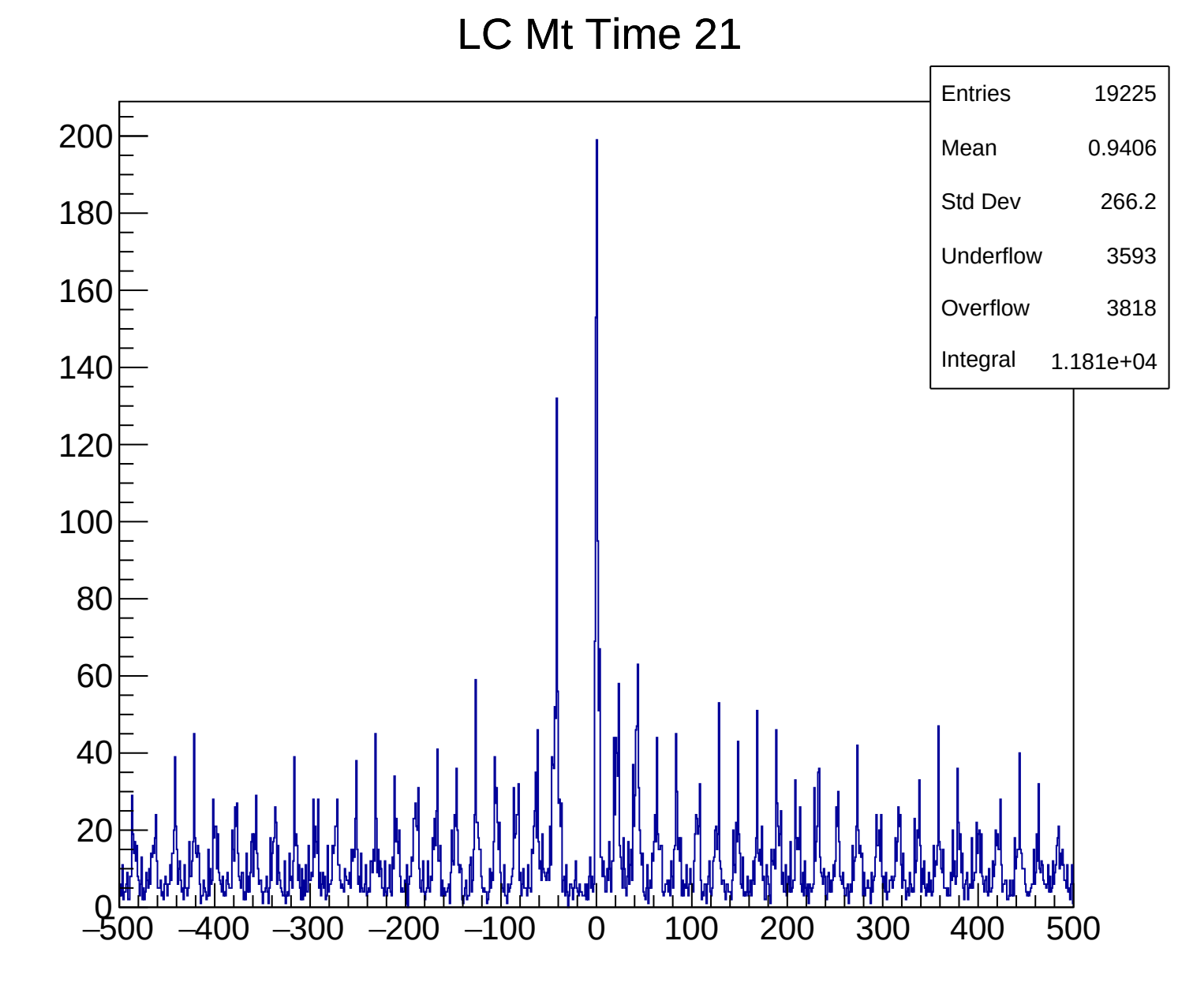
20


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
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60
40
20
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–300
–200
–100
0
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200
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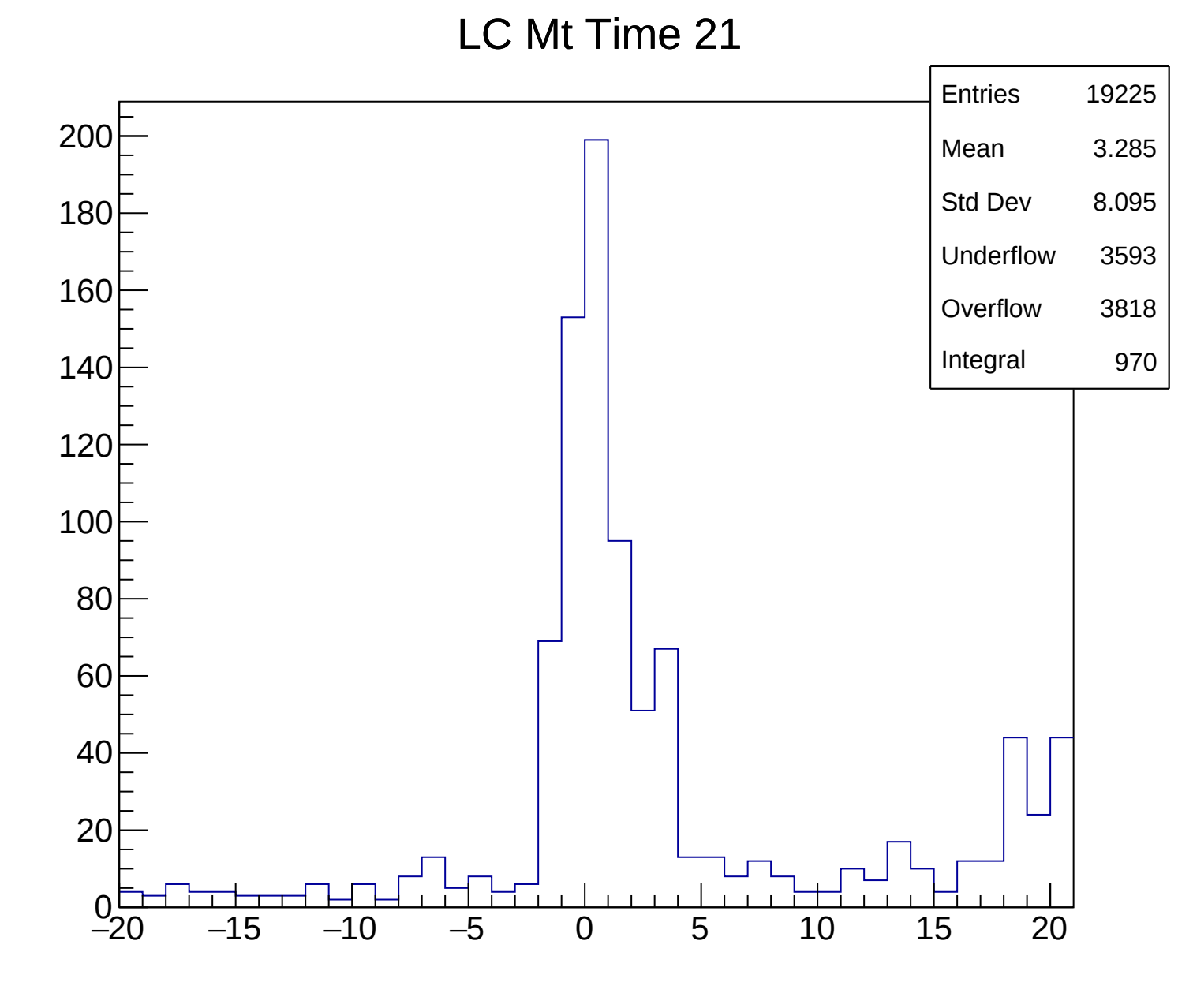
400
500


LC Mt Time 21
Entries 19225
Mean 3.285
Std Dev 8.095
Underflow 3593
Overflow 3818
Integral 970
200
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80
60
40
20
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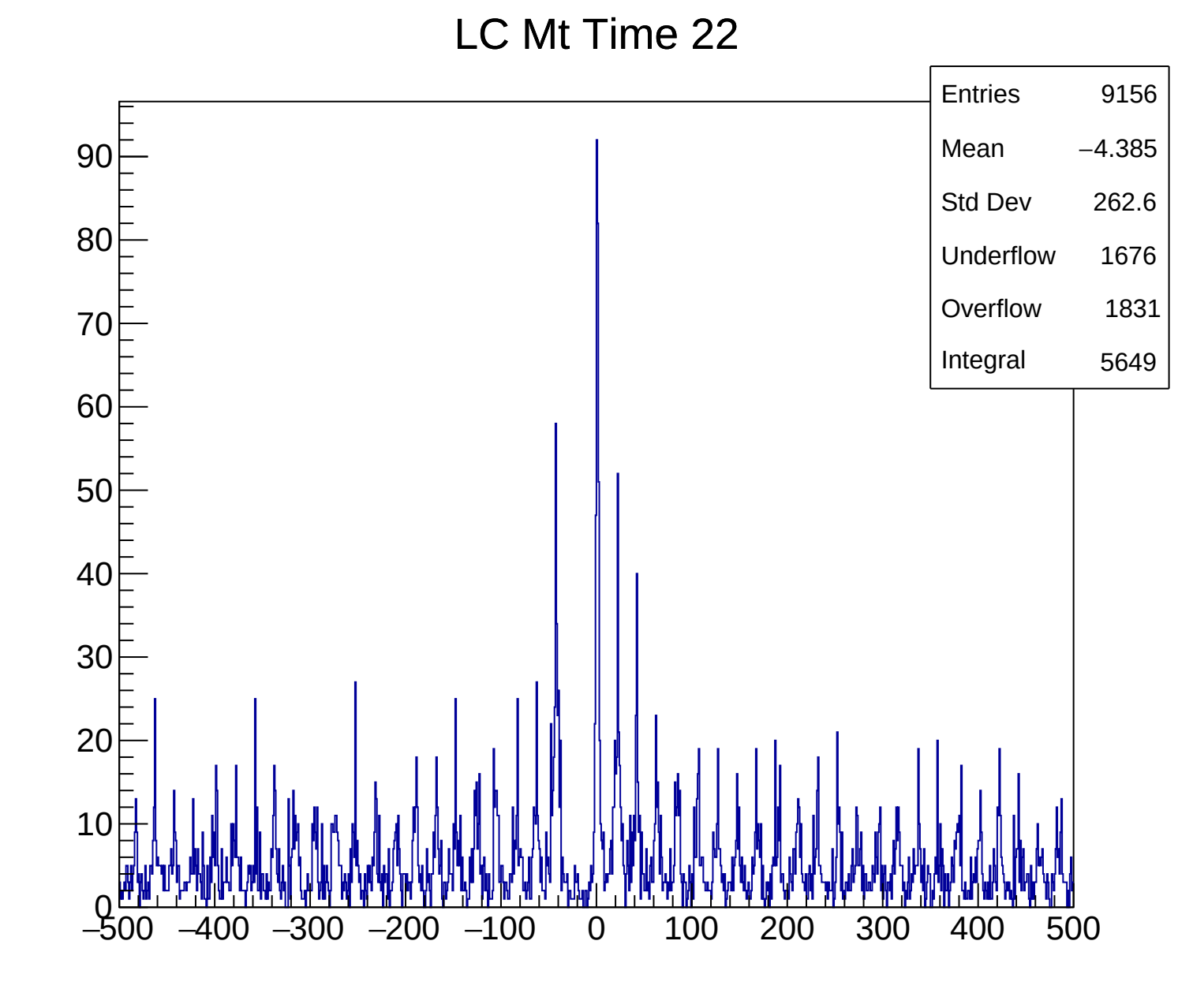
LC Mt Time 22
Entries 9156
Mean −4.385
Std Dev 262.6
Underflow 1676
Overflow 1831
Integral 5649
90
80
70
60
50
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30
20
10
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−400
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−200
−100
0
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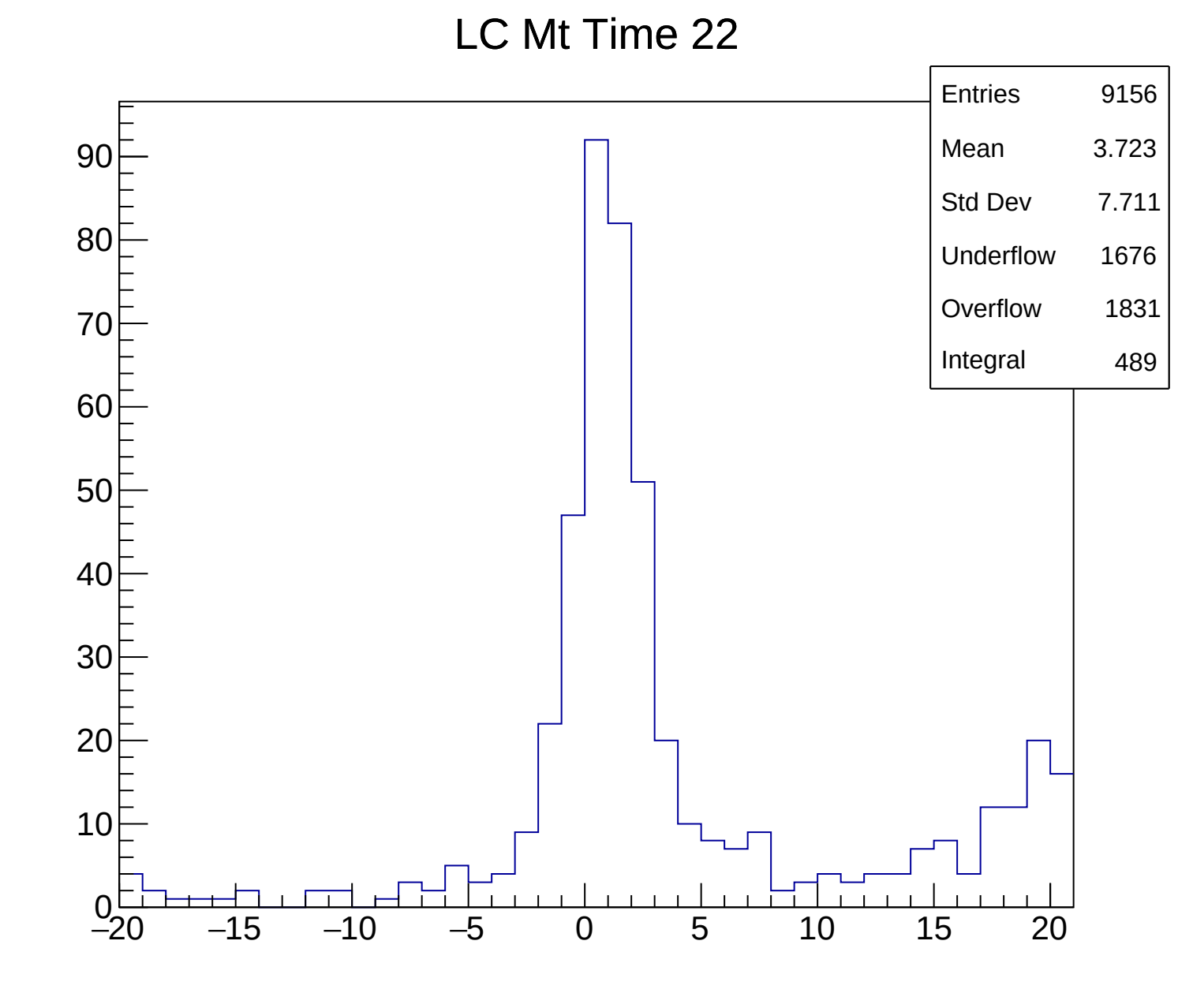
400
500


LC Mt Time 22
Entries 9156
Mean 3.723
Std Dev 7.711
Underflow 1676
Overflow 1831
Integral 489
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20
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10
15
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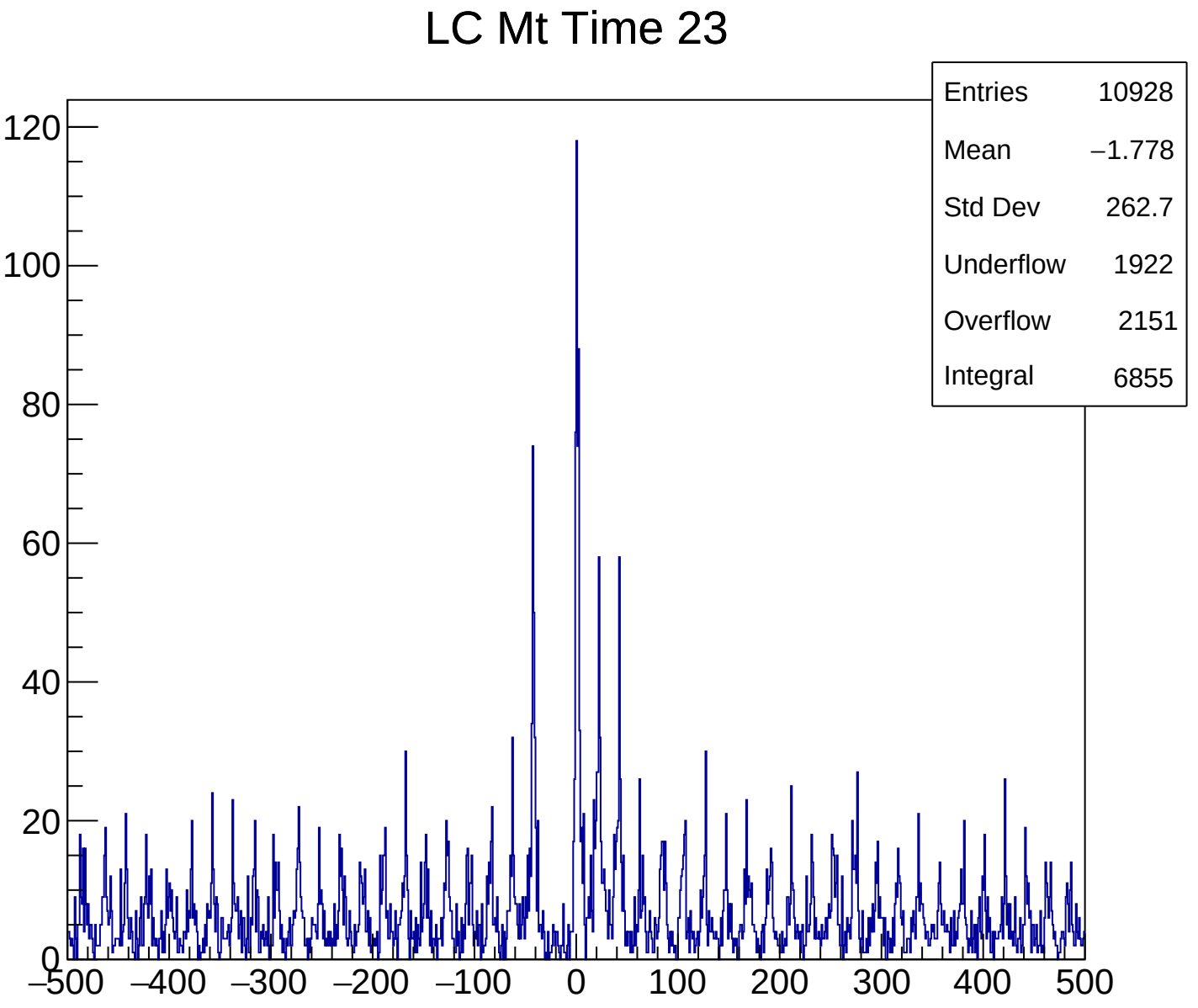
LC Mt Time 23
Entries 10928
Mean −1.778
Std Dev 262.7
Underflow 1922
Overflow 2151
Integral 6855
120
100
80
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40
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−400
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−200
−100
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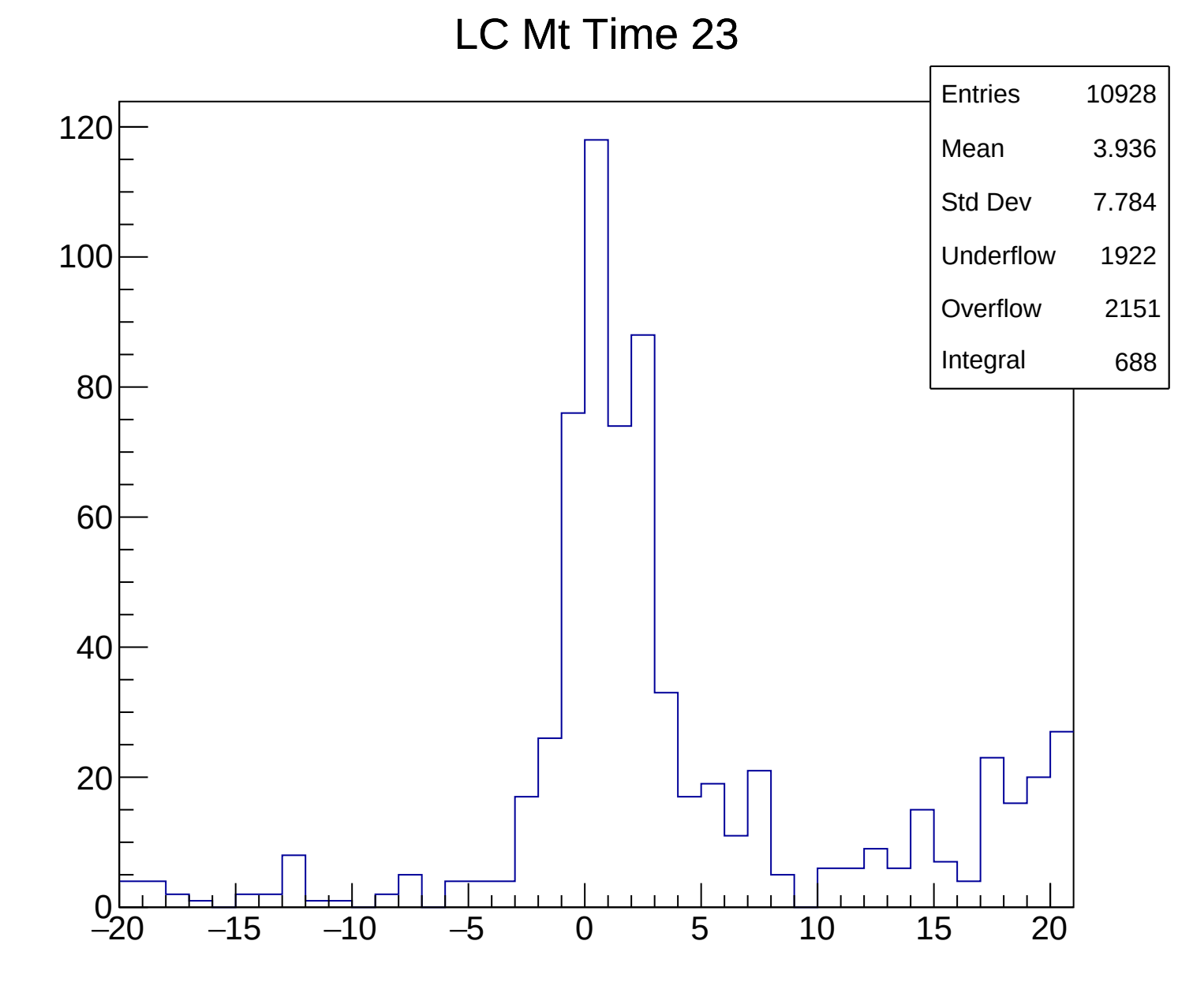
200
300
400
500


LC Mt Time 23
Entries 10928
Mean 3.936
Std Dev 7.784
Underflow 1922
Overflow 2151
Integral 688
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100
80
60
40
20
0
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–15
–10
–5
0
5
10
15
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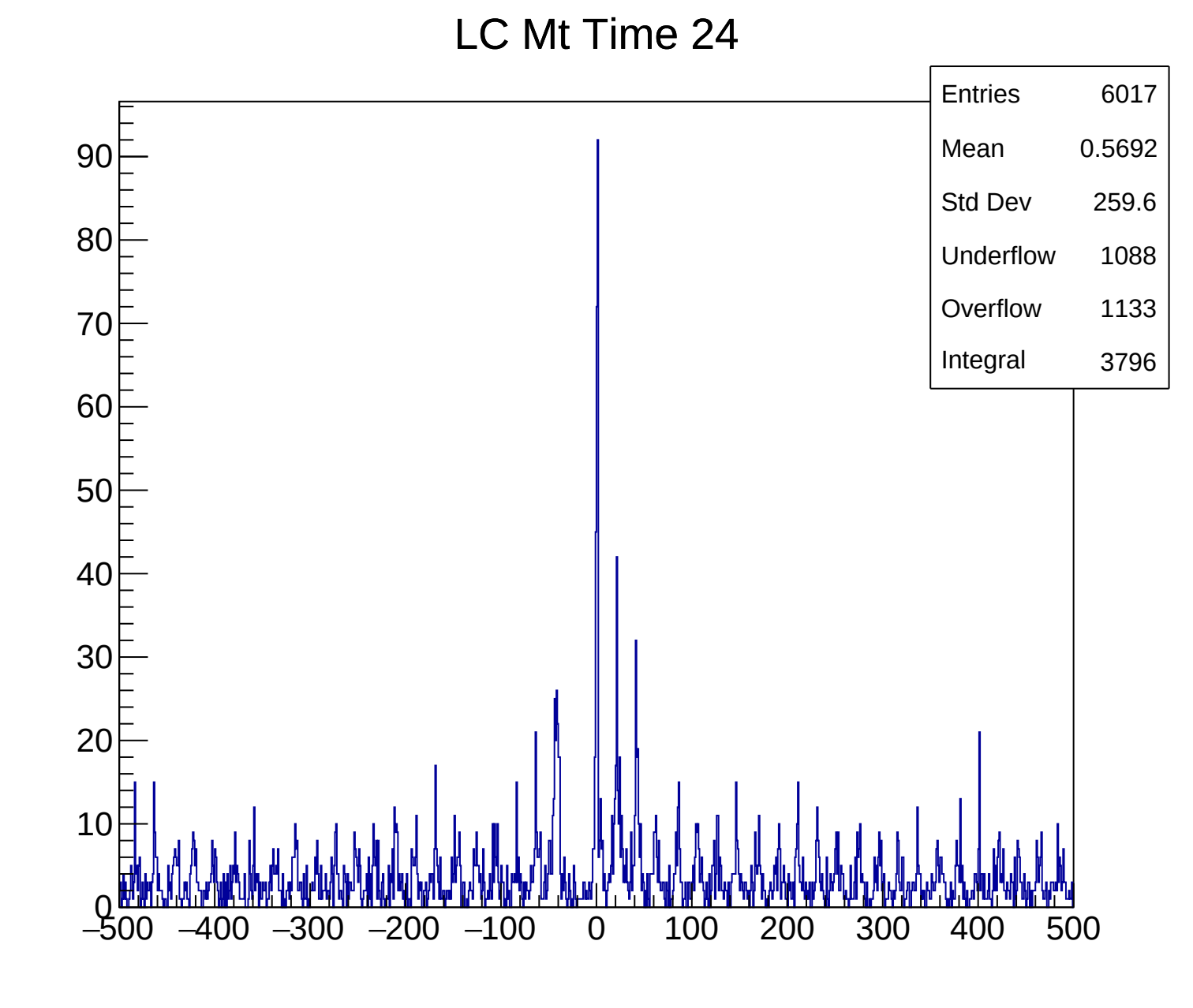
LC Mt Time 24
Entries 6017
Mean 0.5692
Std Dev 259.6
Underflow 1088
Overflow 1133
Integral 3796
90
80
70
60
50
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30
20
10
0
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200
300
400
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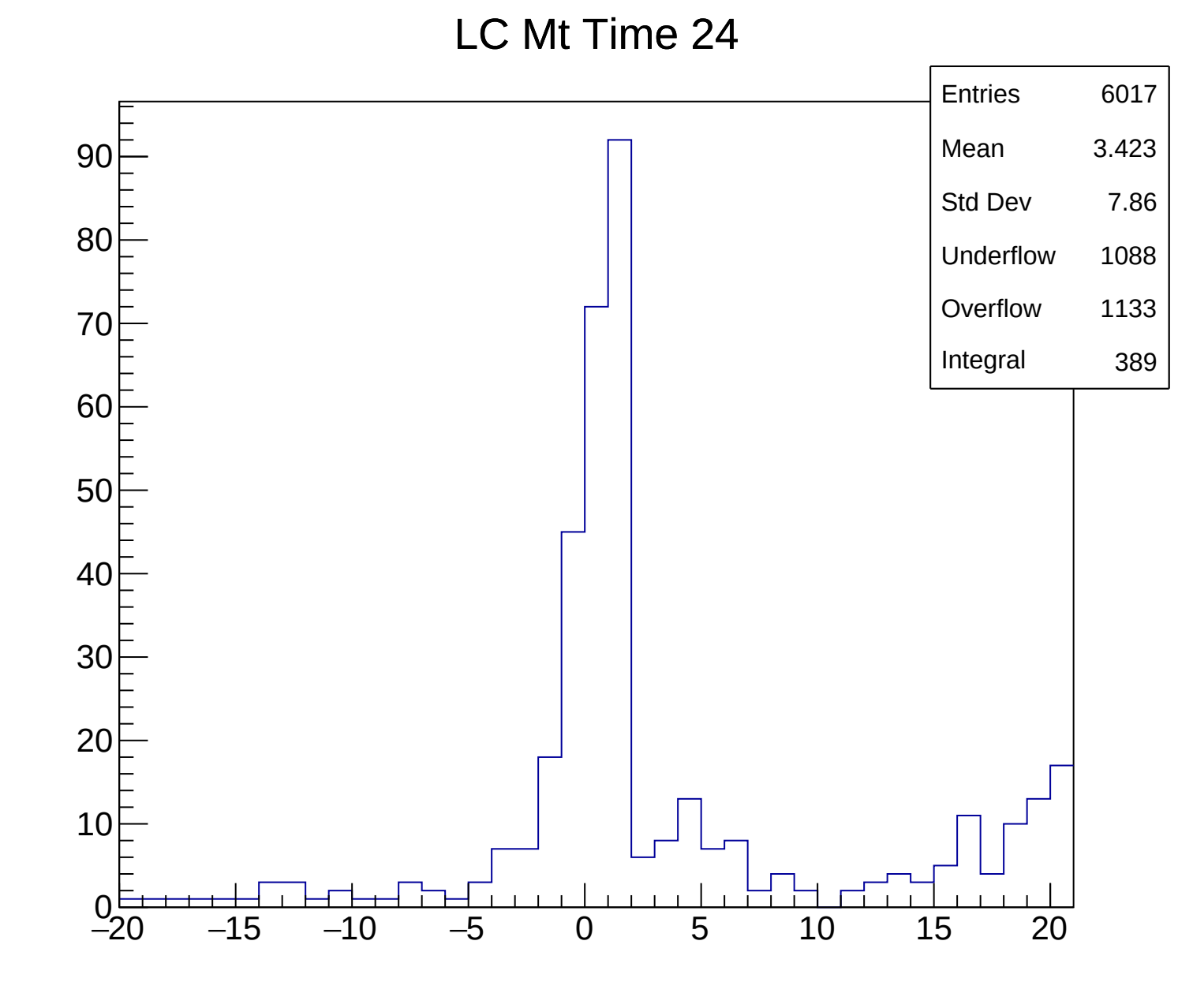
LC Mt Time 24
Entries 6017
Mean 3.423
Std Dev 7.86
Underflow 1088
Overflow 1133
Integral 389
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80
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50
40
30
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15
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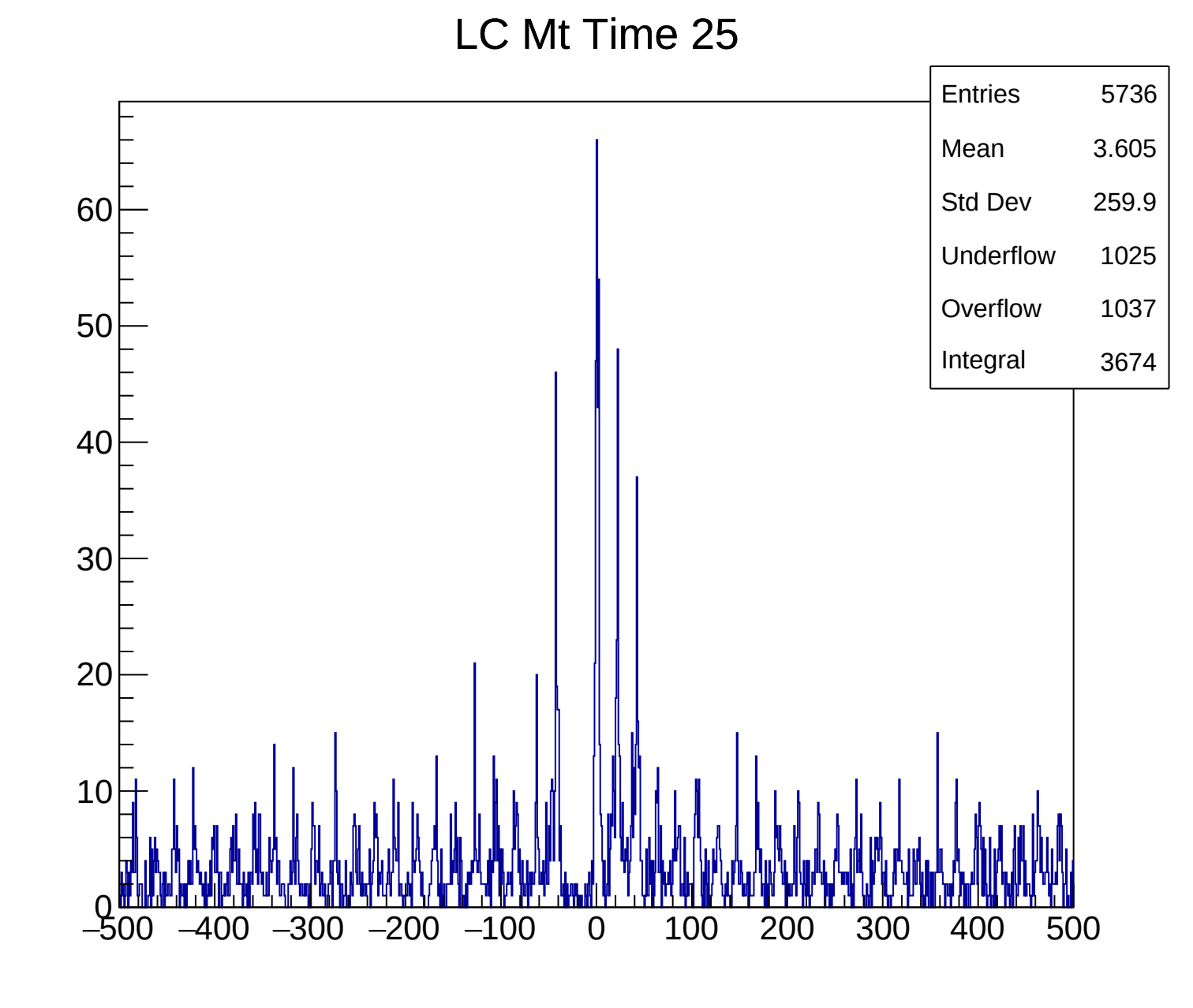
LC Mt Time 25
Entries 5736
Mean 3.605
Std Dev 259.9
Underflow 1025
Overflow 1037
Integral 3674
0
10
20
30
40
50
60
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–300
–200
–100
0
100
200
300
400
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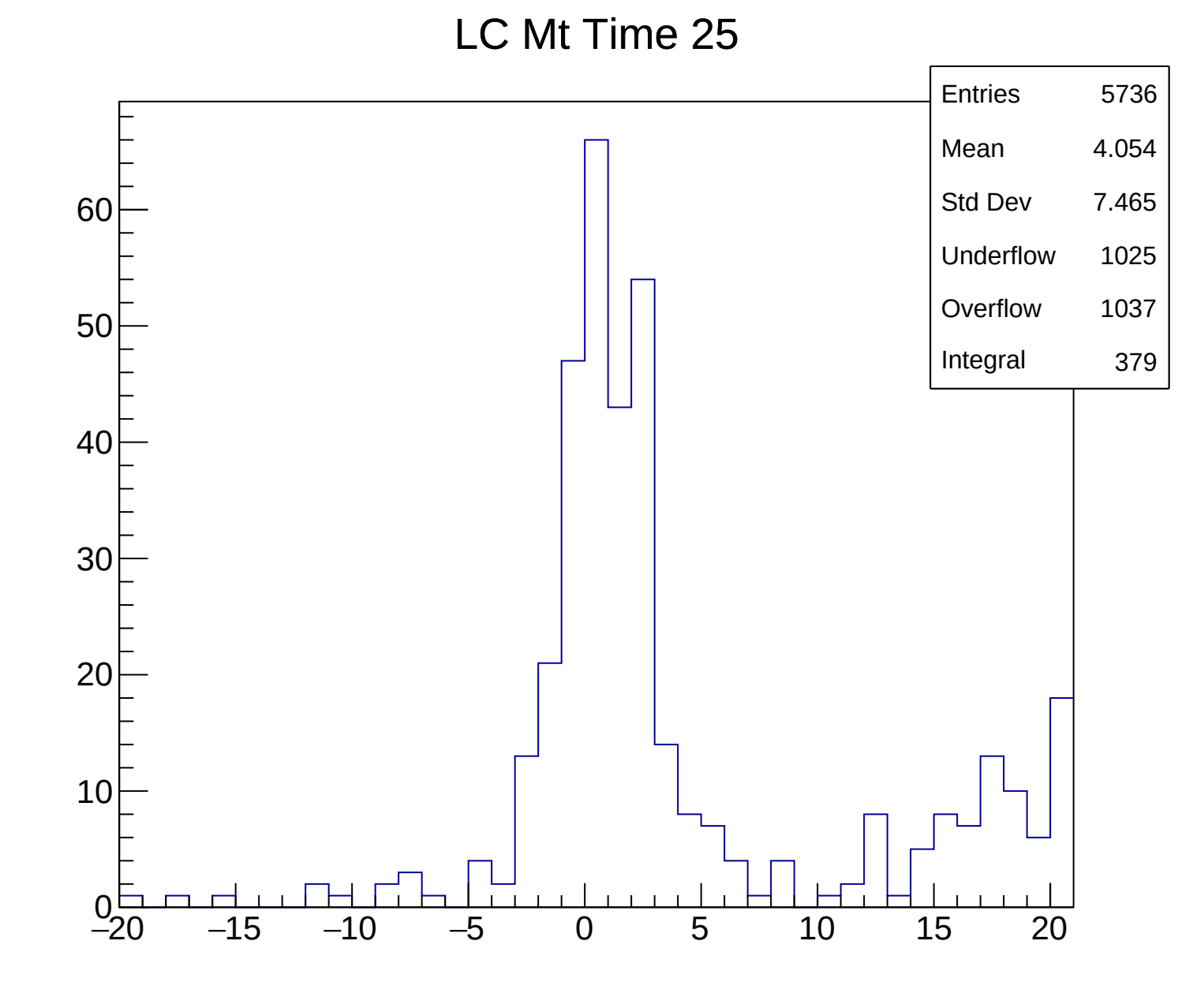
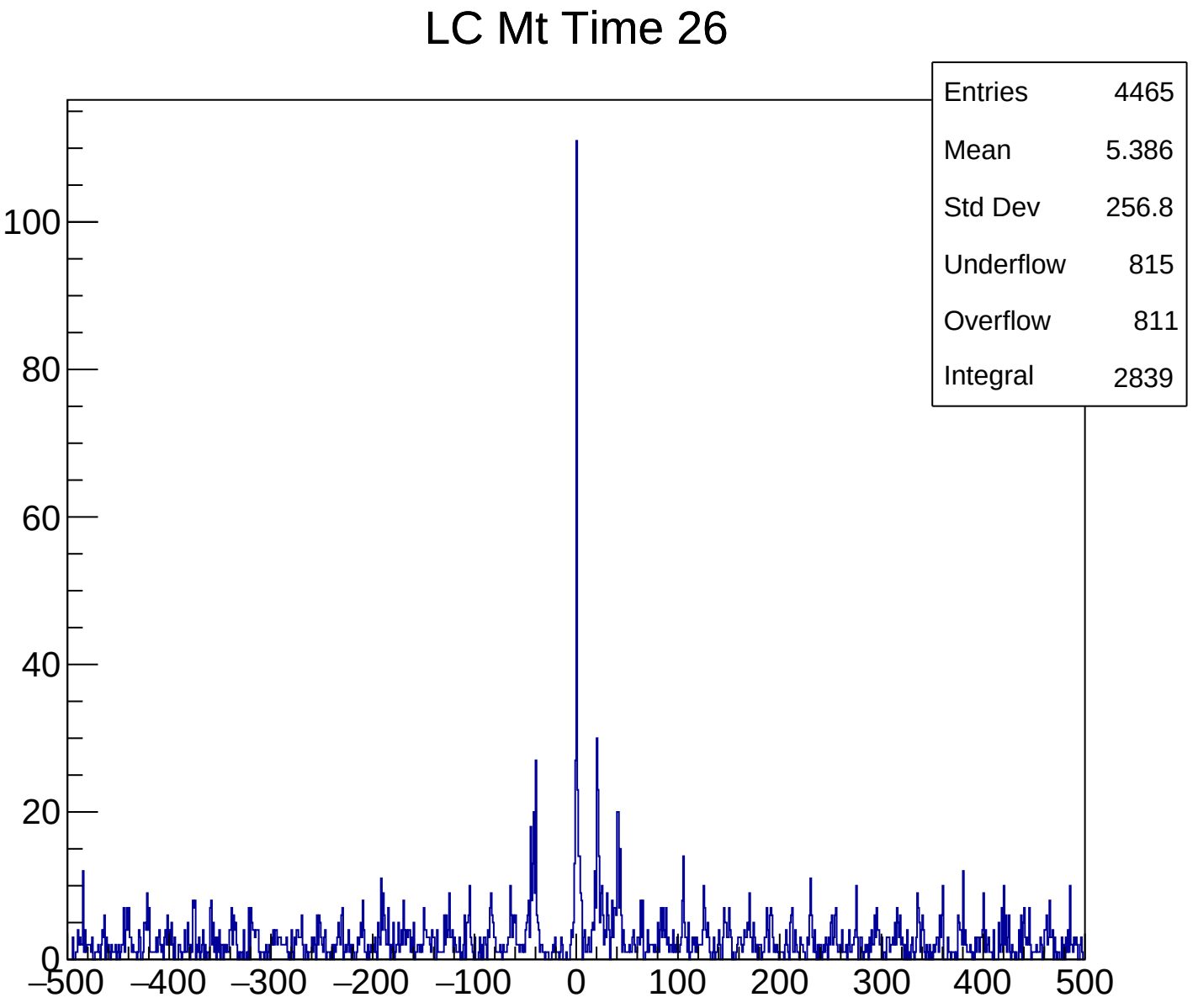
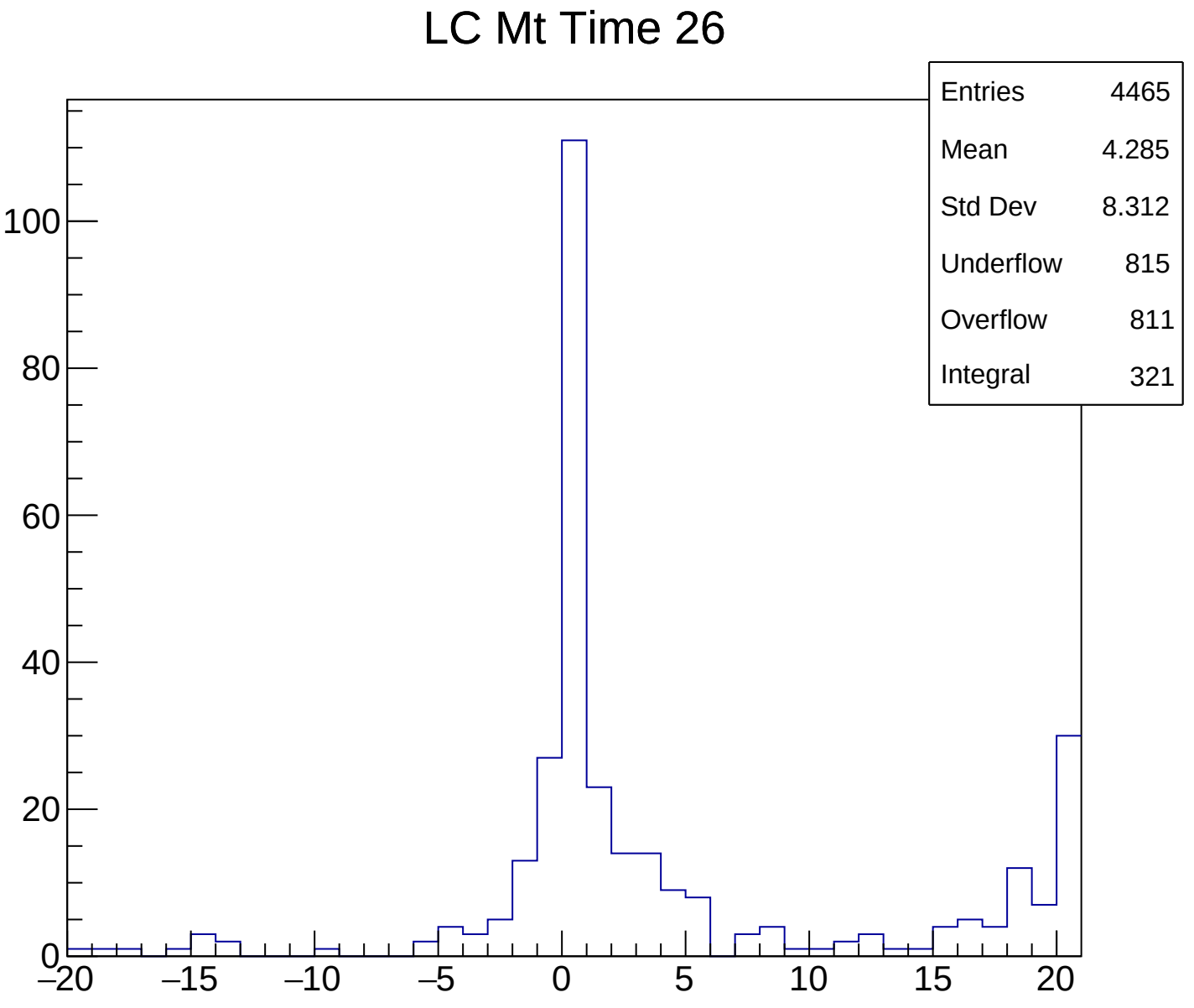

LC Mt Time 25
Entries 5736
Mean 4.054
Std Dev 7.465
Underflow 1025
Overflow 1037
Integral 379
60
50
40
30
20
10
0
–20
–15
–10
–5
0
5
10
15
20


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
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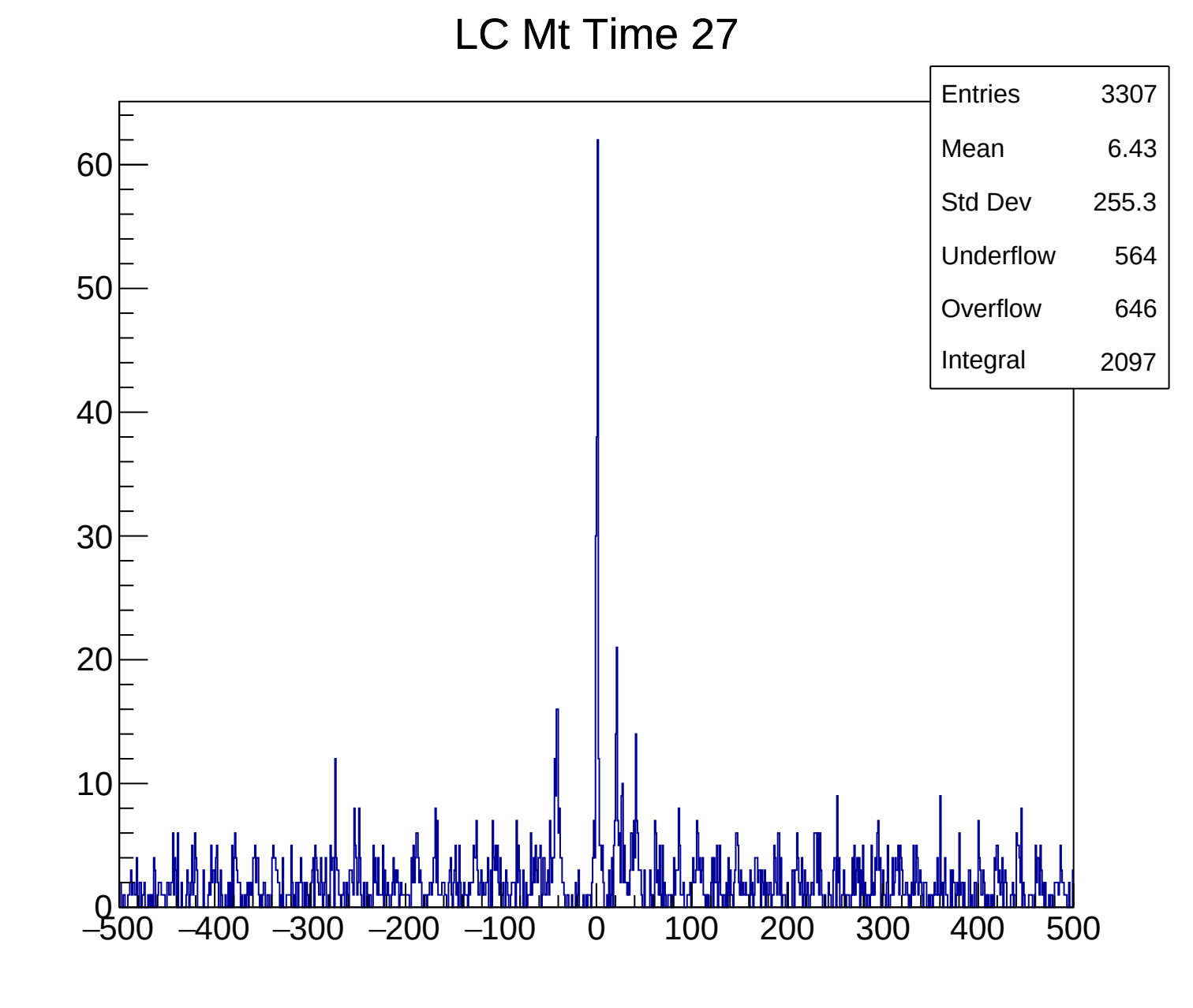
–15
–10
–5
0
5
10
15
20


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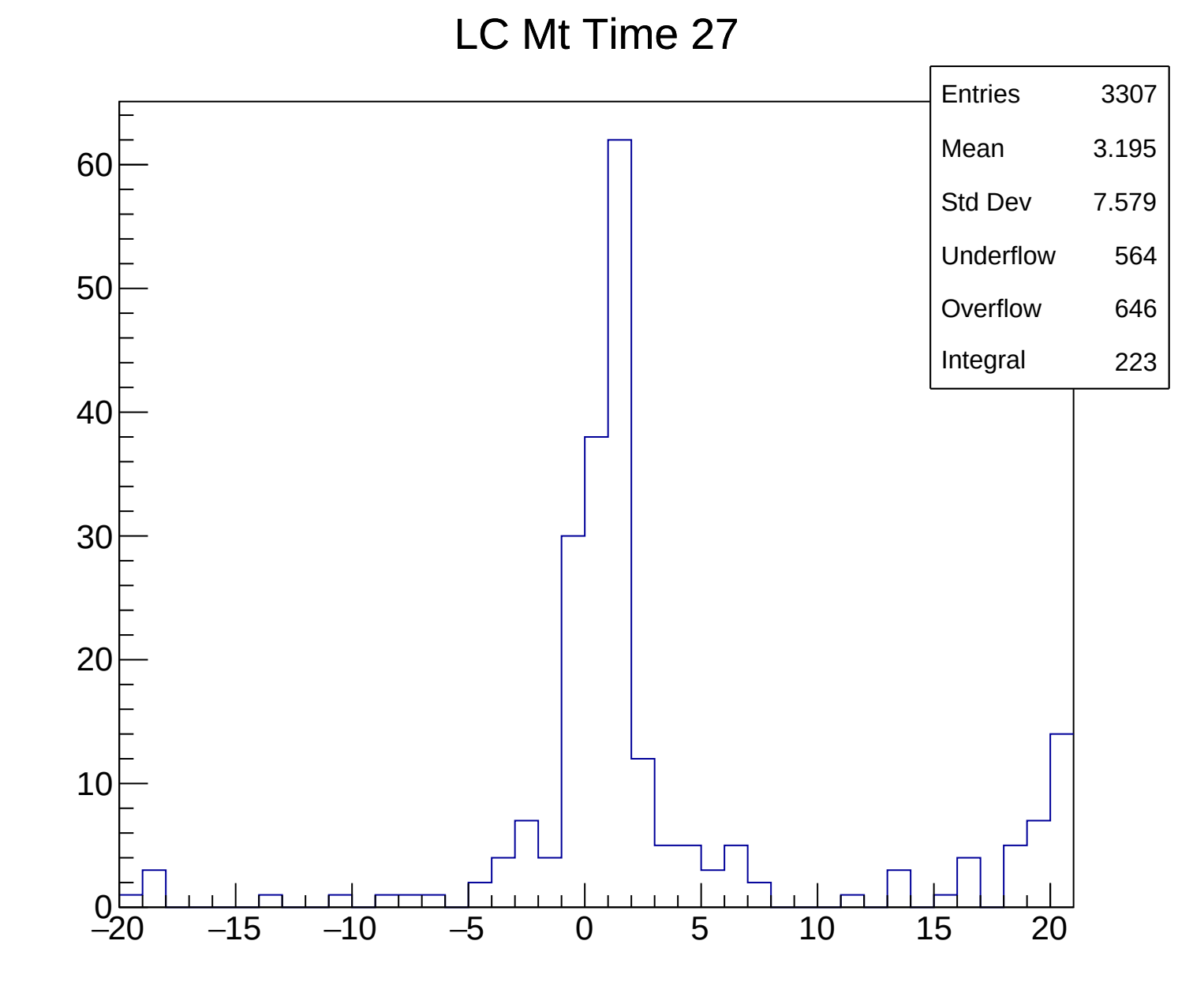
30
20
10
0
–500
–400
–300
–200
–100
0
100
200
300
400
500


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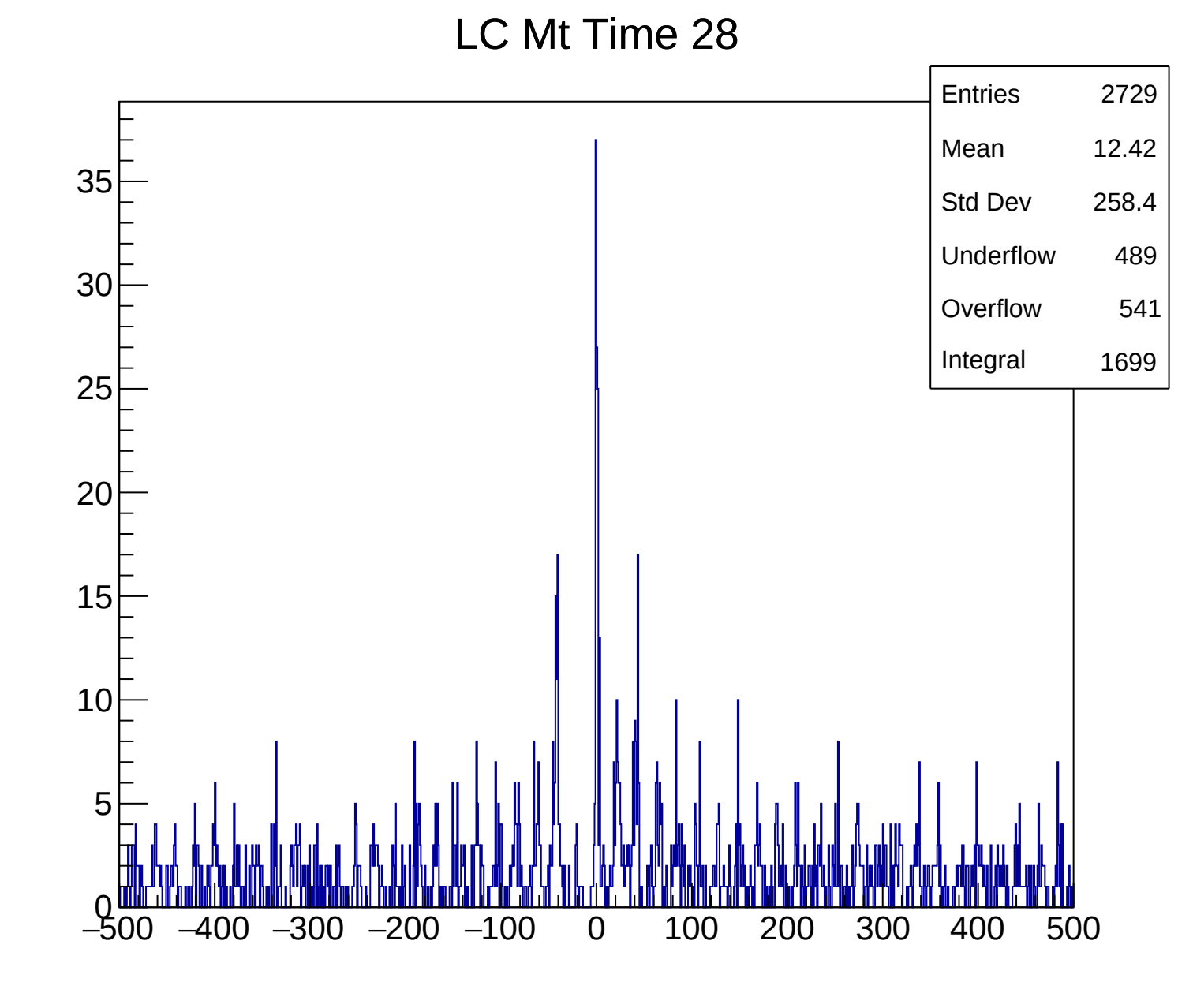
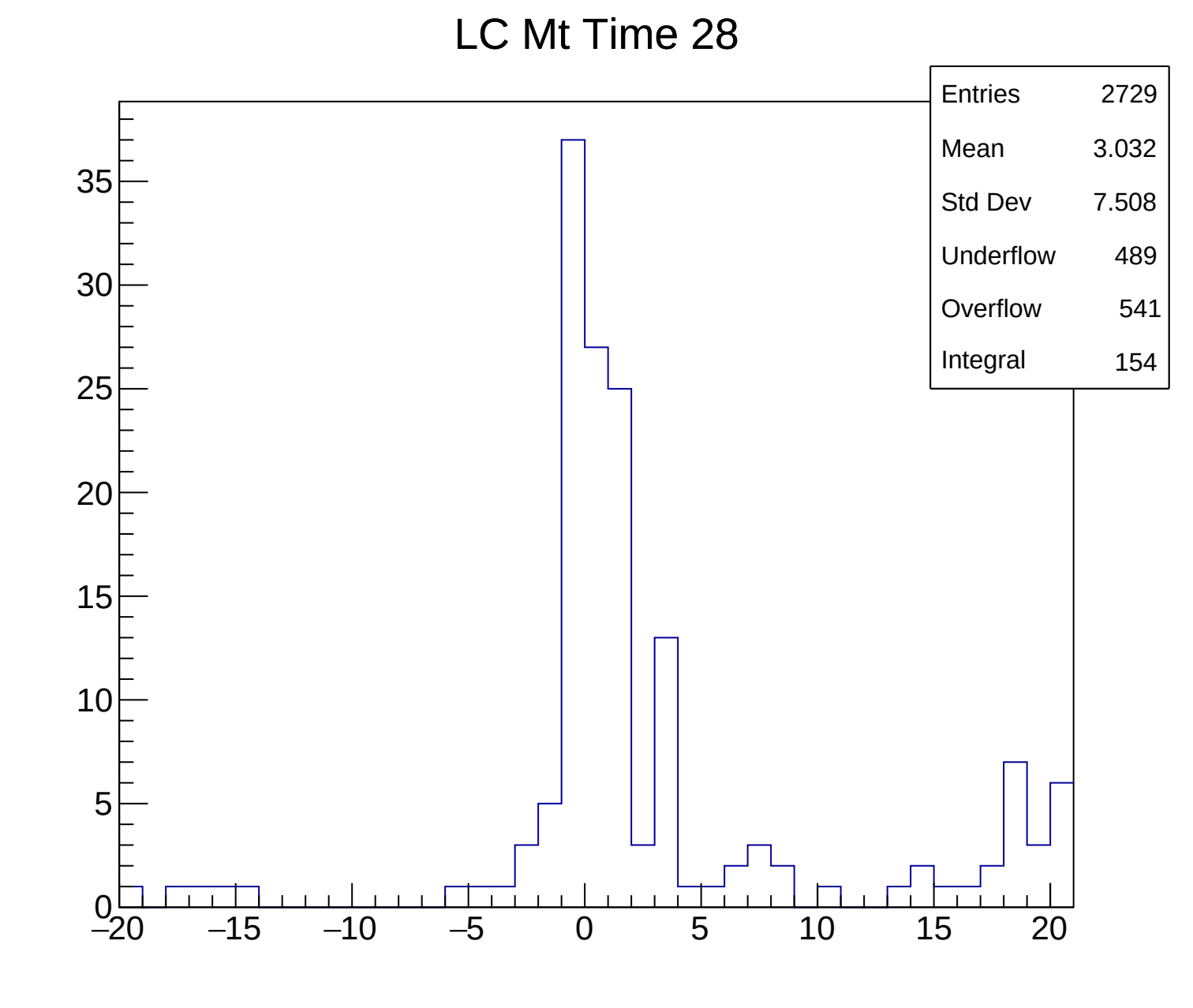
50
40
30
20
10
0
–20
–15
–10
–5
0
5
10
15
20


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
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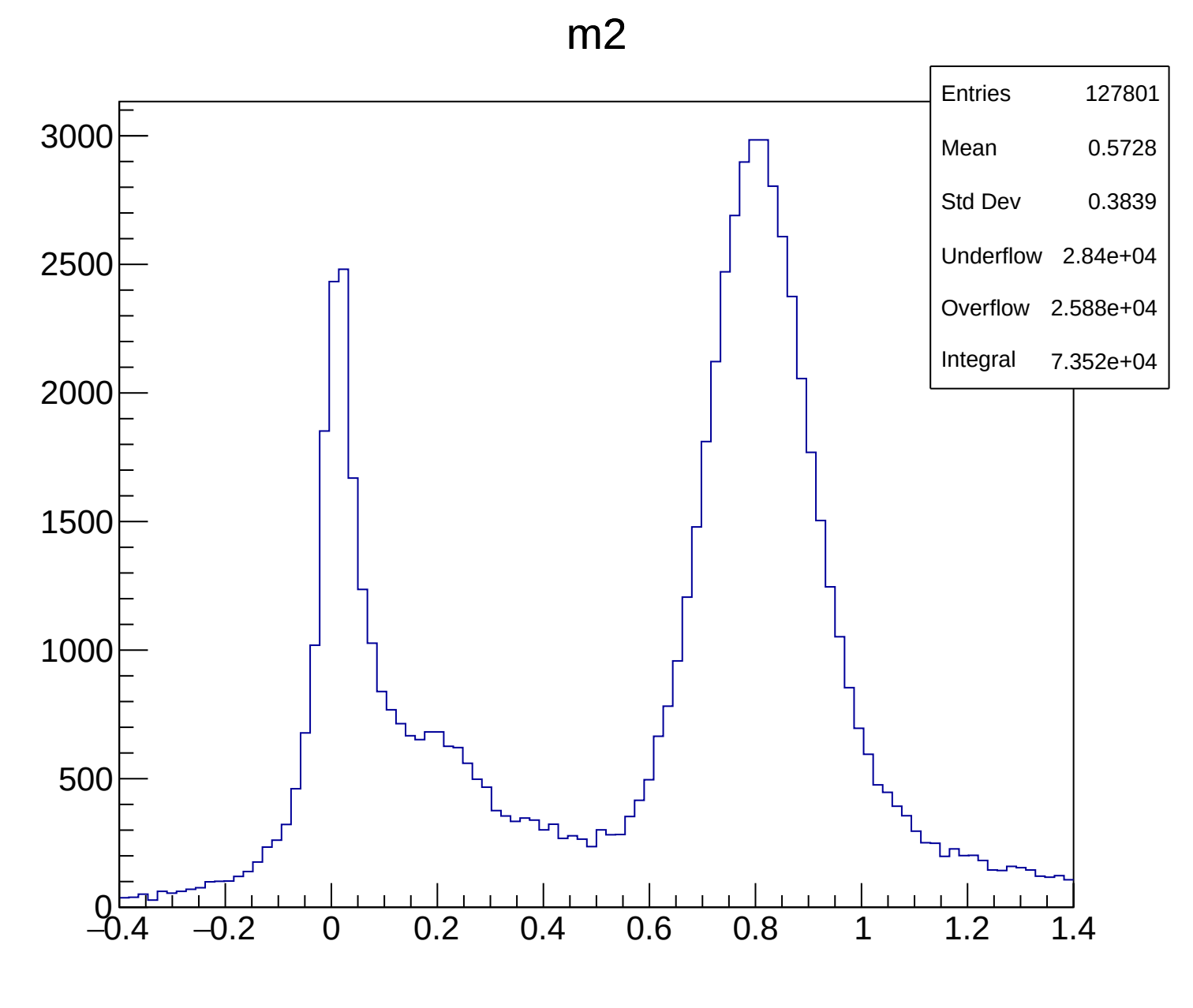
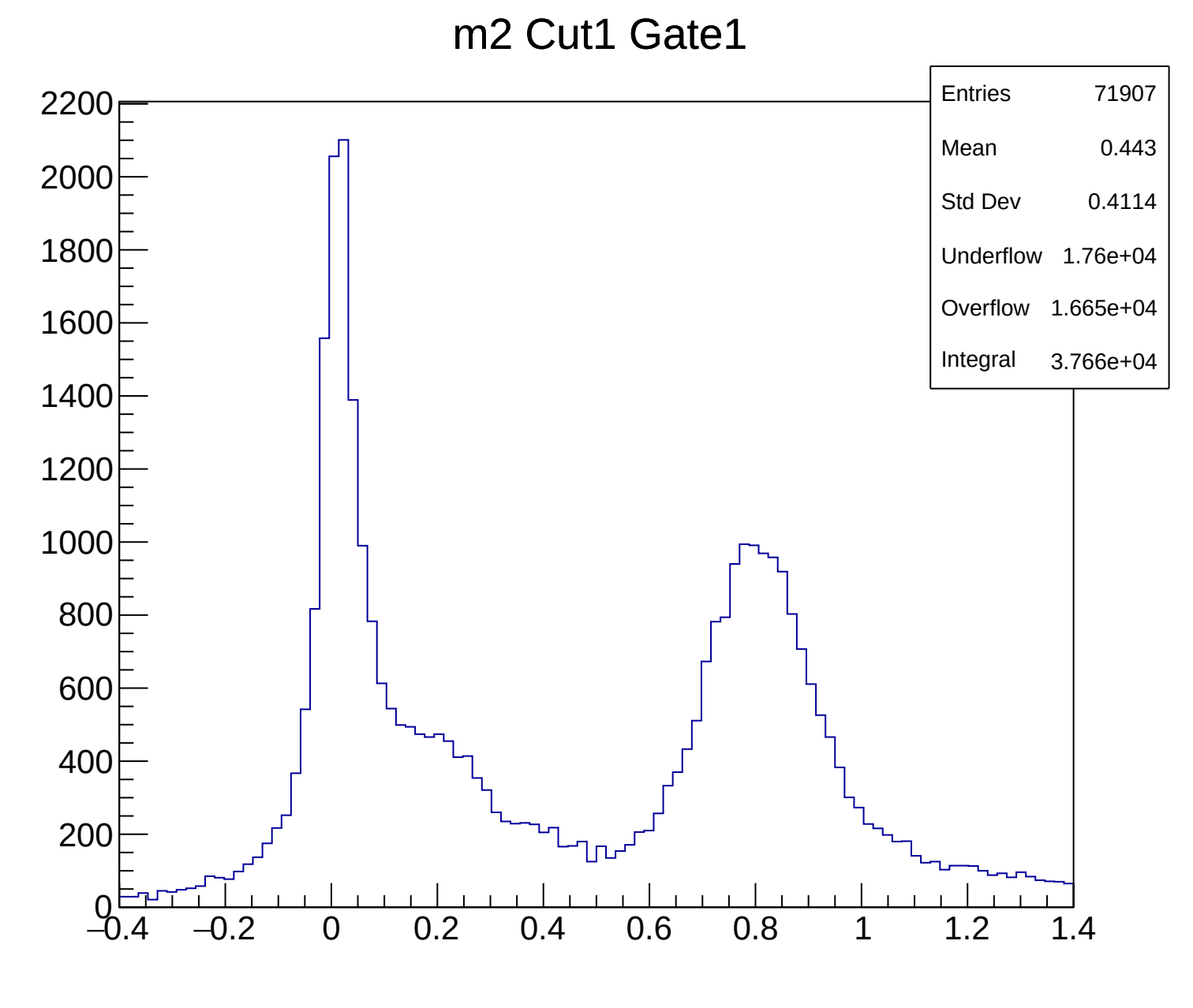
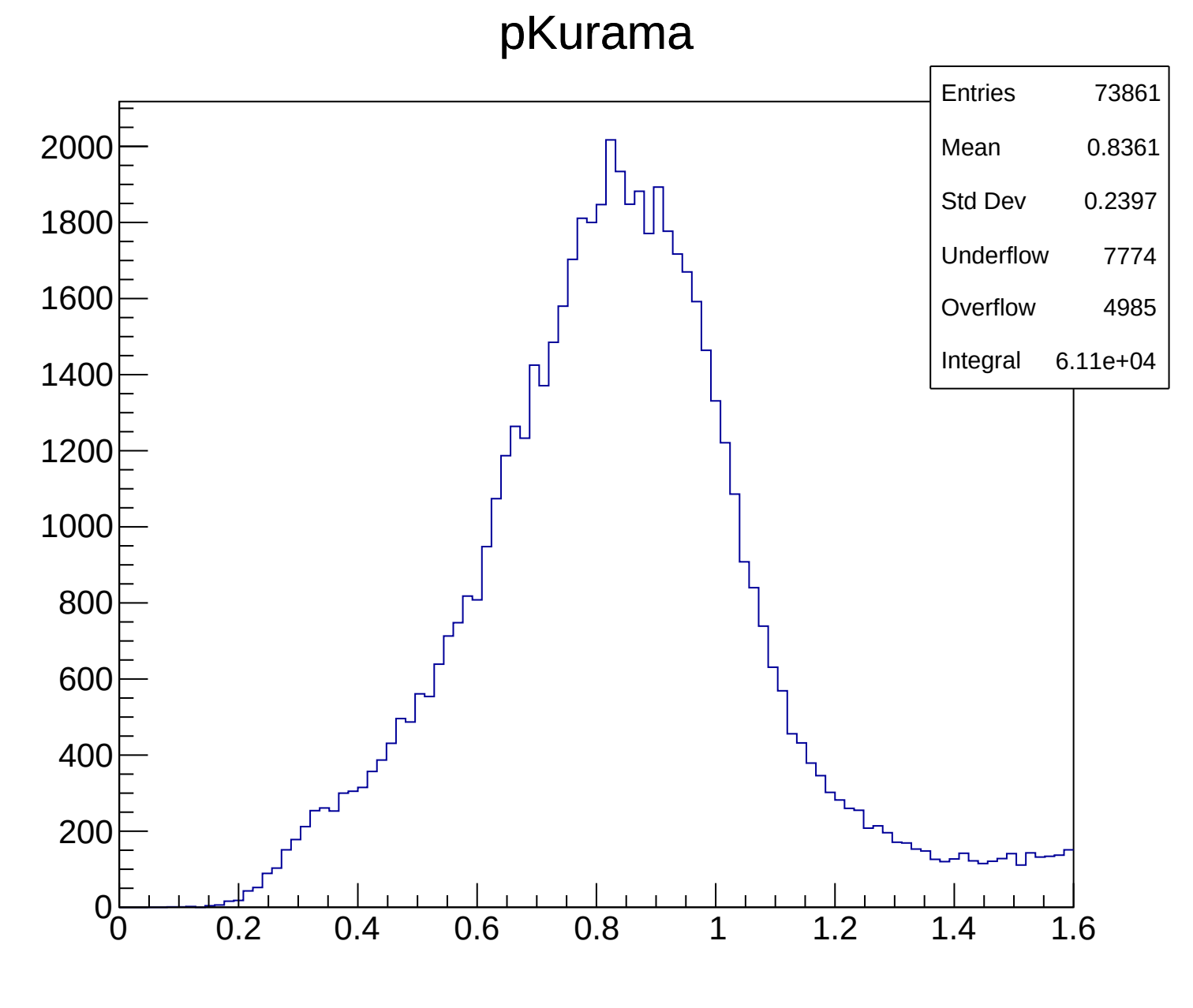
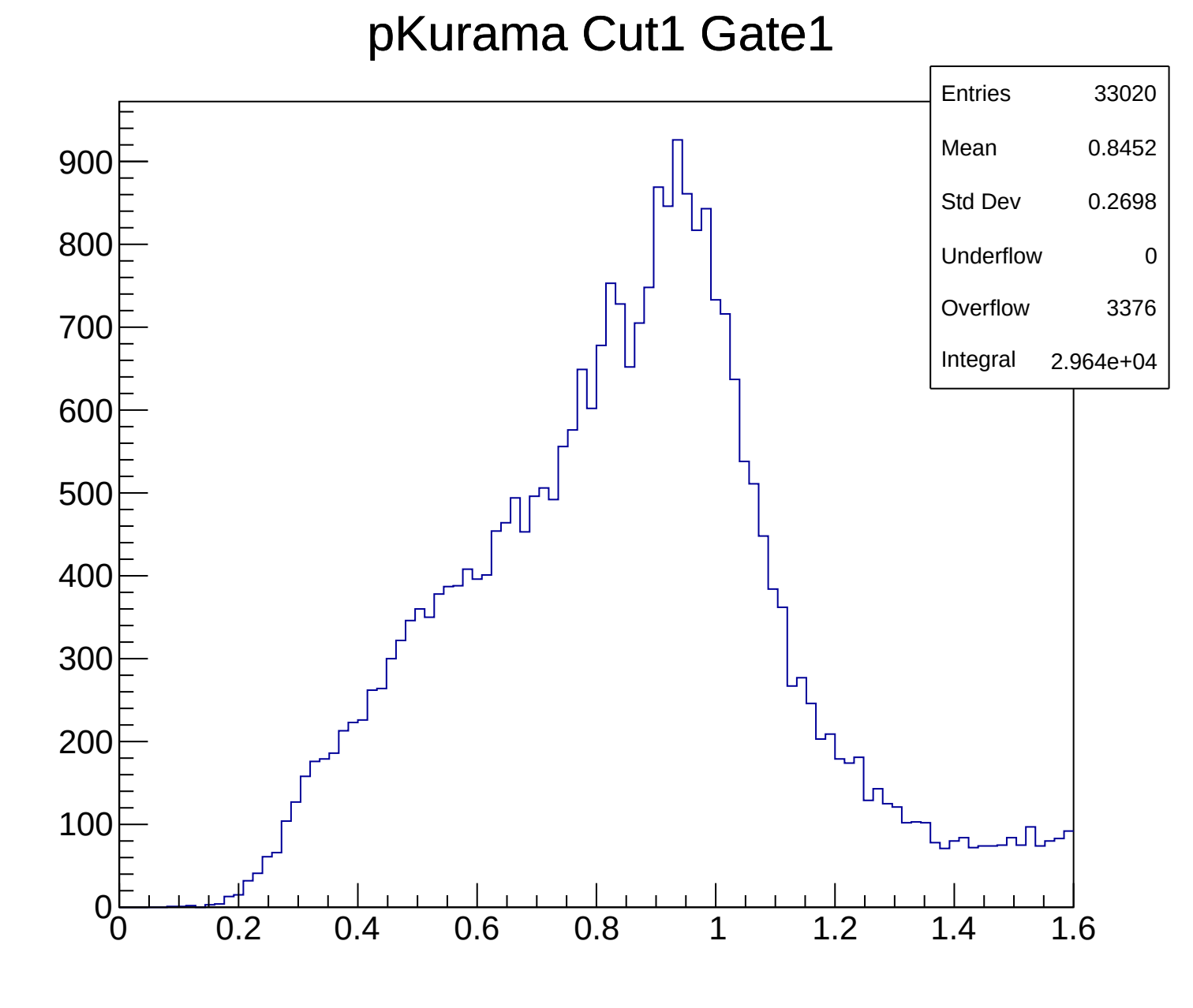
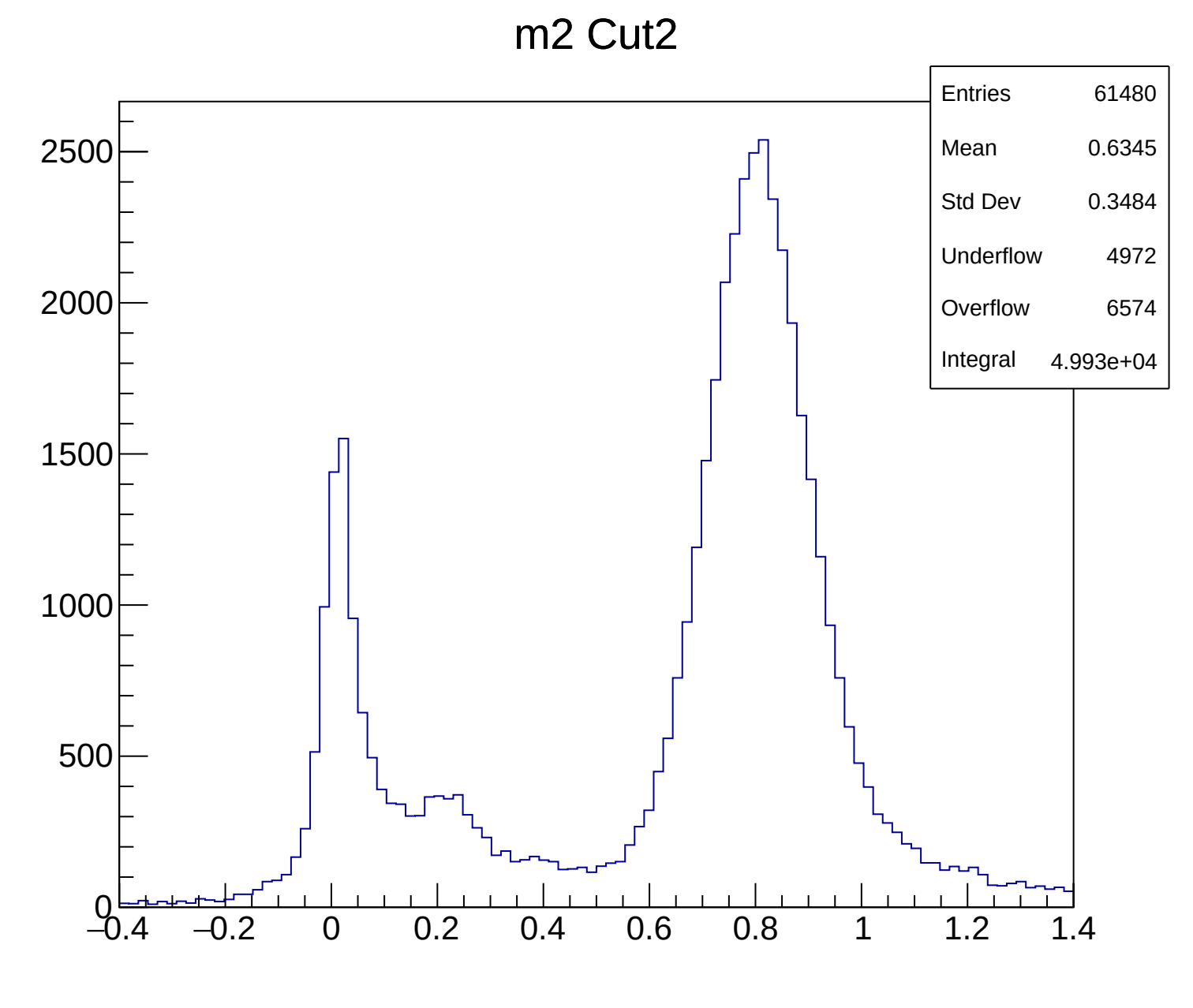
25
20
15
10
5
0
–20
–15
–10
–5
0
5
10
15
20


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 71907
Mean 0.443
Std Dev 0.4114
Underflow 1.76e+04
Overflow 1.665e+04
Integral 3.766e+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 33020
Mean 0.8452
Std Dev 0.2698
Underflow 0
Overflow 3376
Integral 2.964e+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 Cut2
Entries 61480
Mean 0.6345
Std Dev 0.3484
Underflow 4972
Overflow 6574
Integral 4.993e+04
2500
2000
1500
1000
500
0
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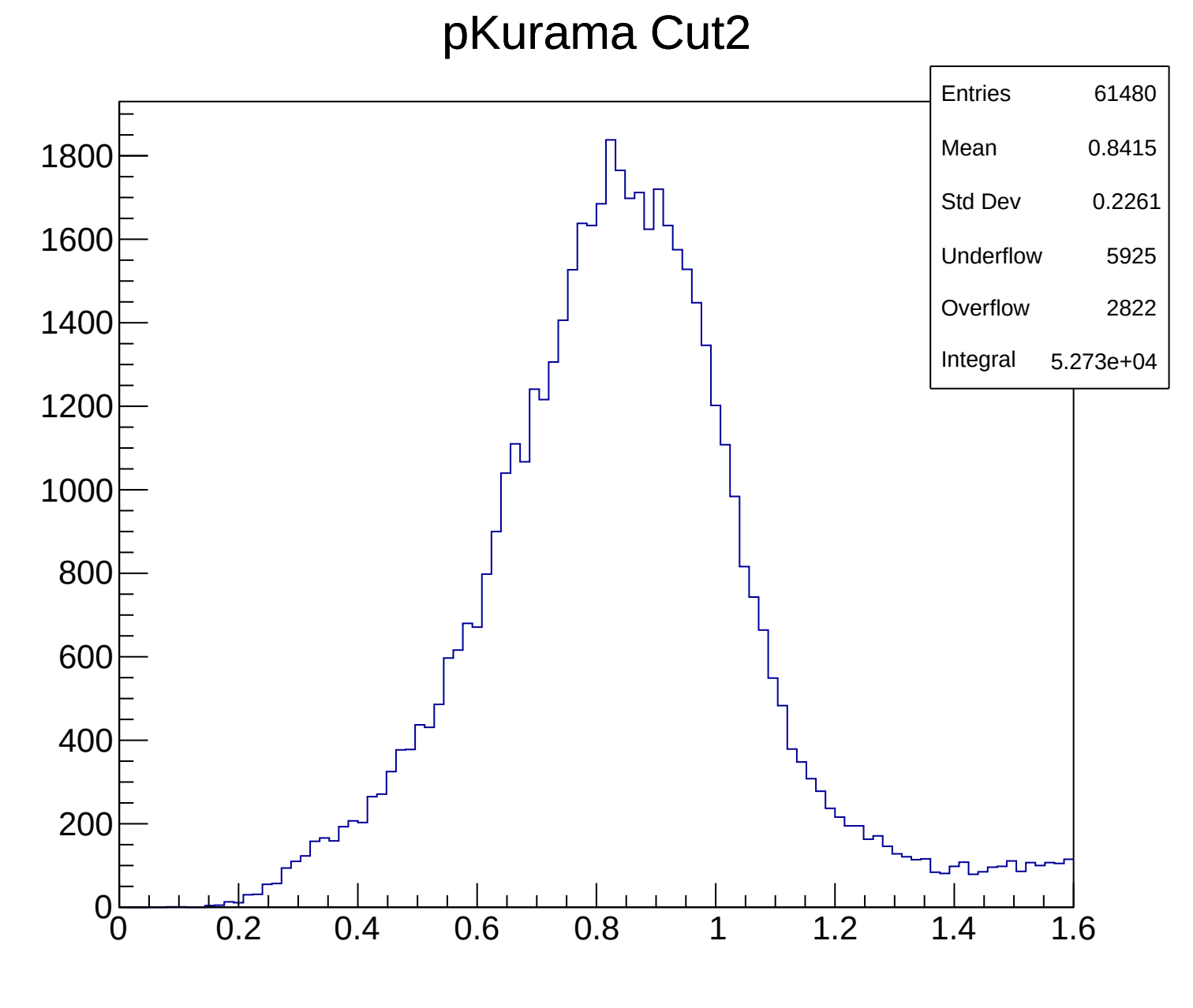
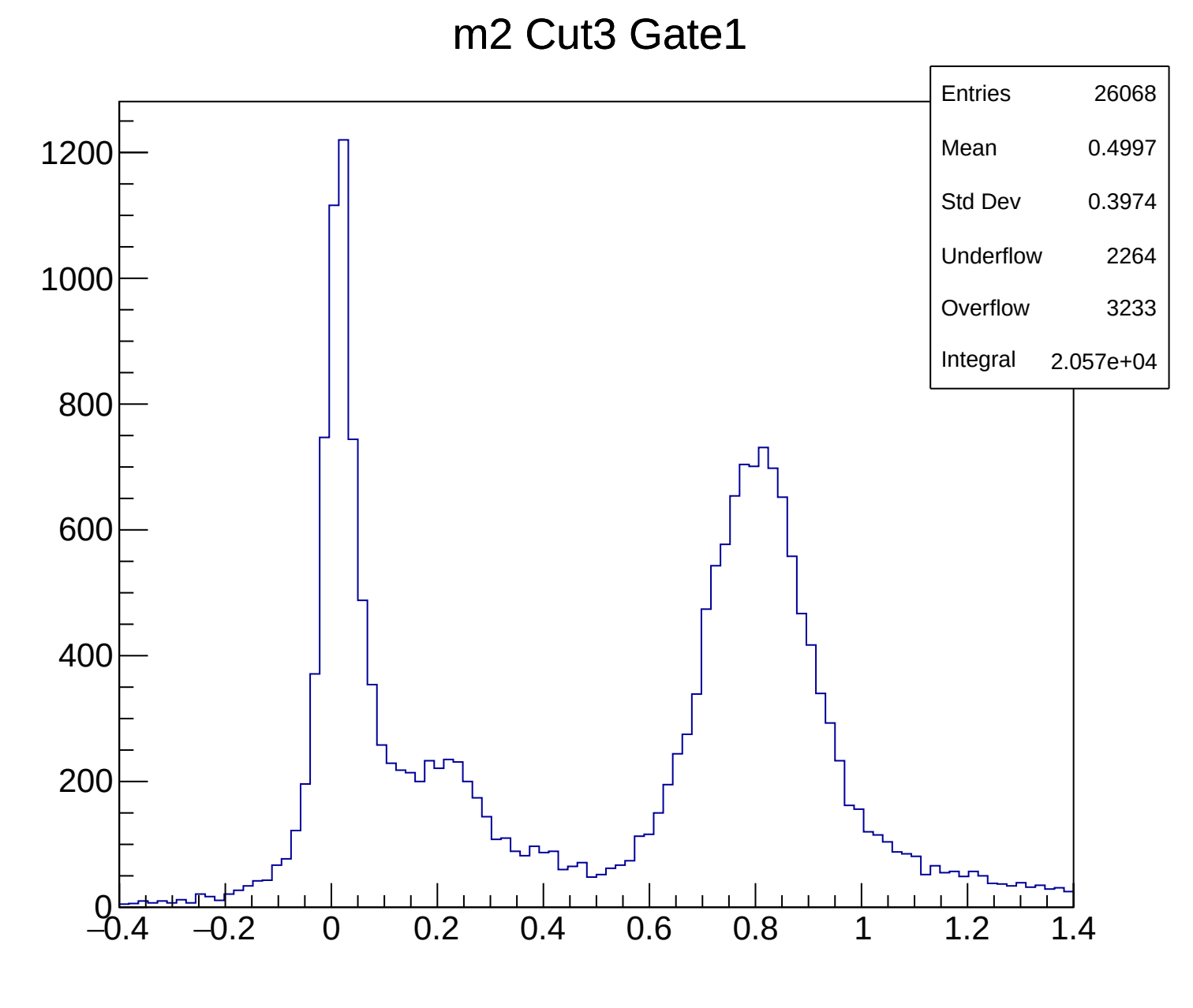
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4


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 26068
Mean 0.4997
Std Dev 0.3974
Underflow 2264
Overflow 3233
Integral 2.057e+04
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1000
800
600
400
200
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0.2
0.4
0.6
0.8
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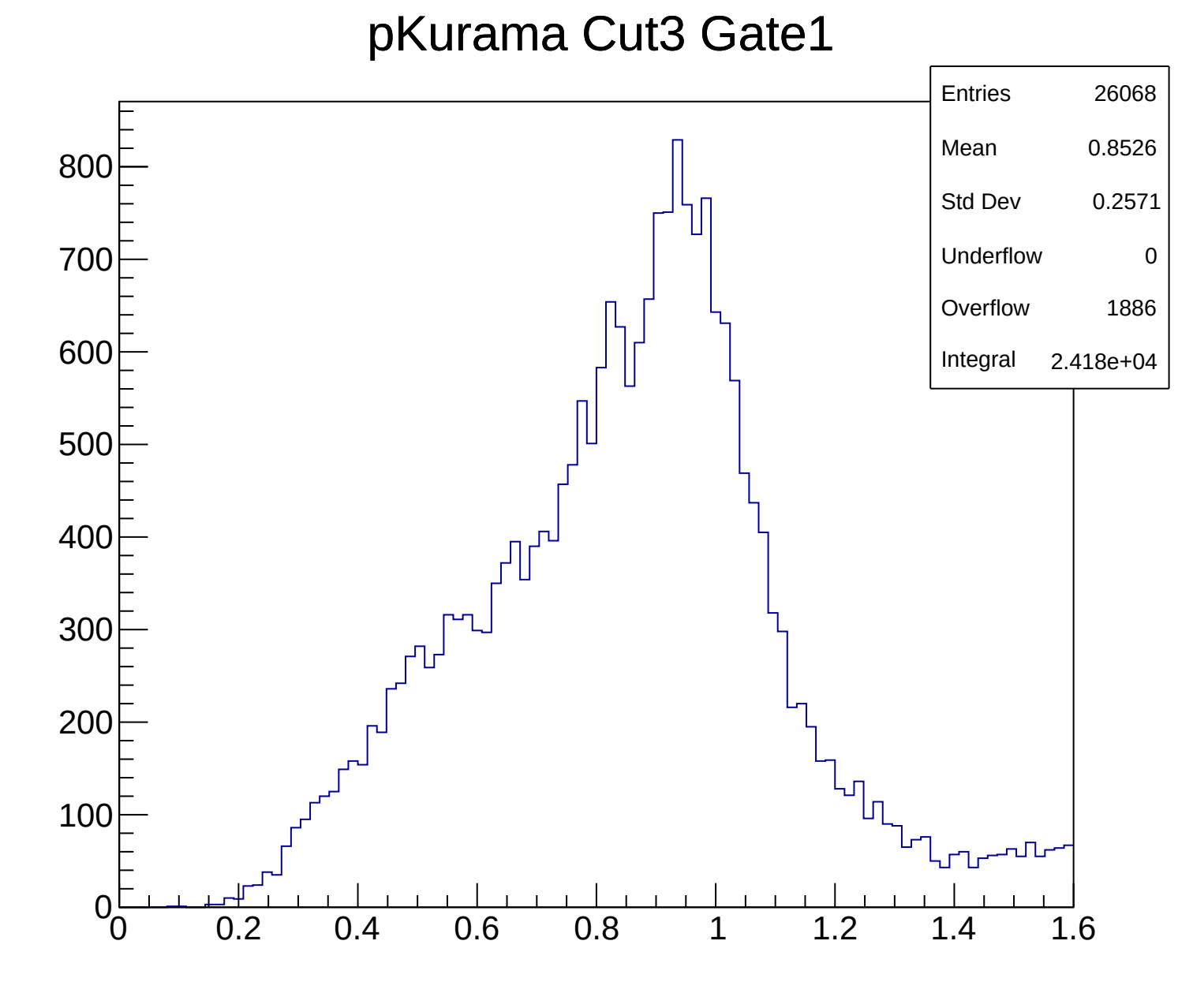
1.4


pKurama Cut3 Gate1
Entries 26068
Mean 0.8526
Std Dev 0.2571
Underflow 0
Overflow 1886
Integral 2.418e+04
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700
600
500
400
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200
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0.8
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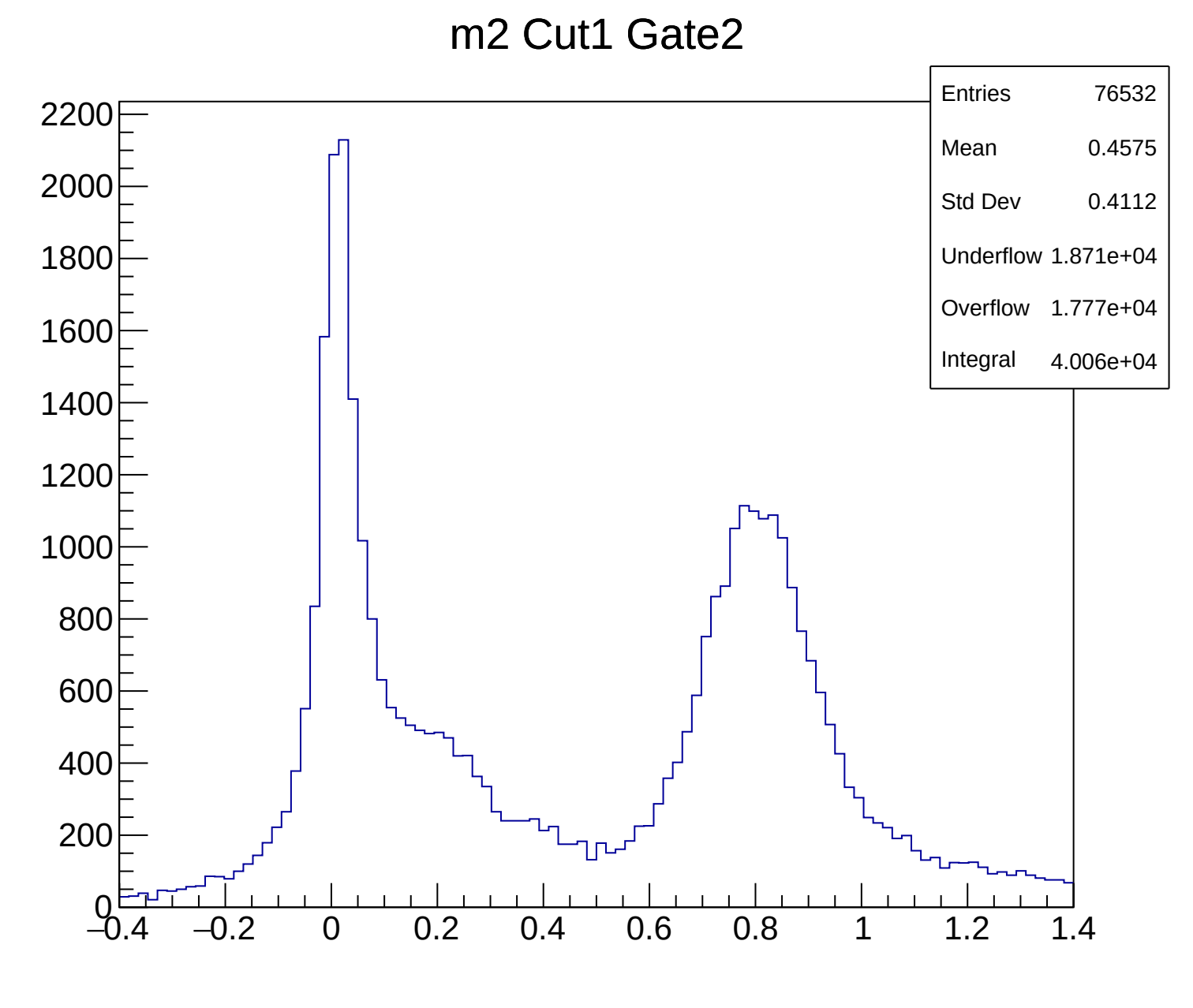
1.4
1.6


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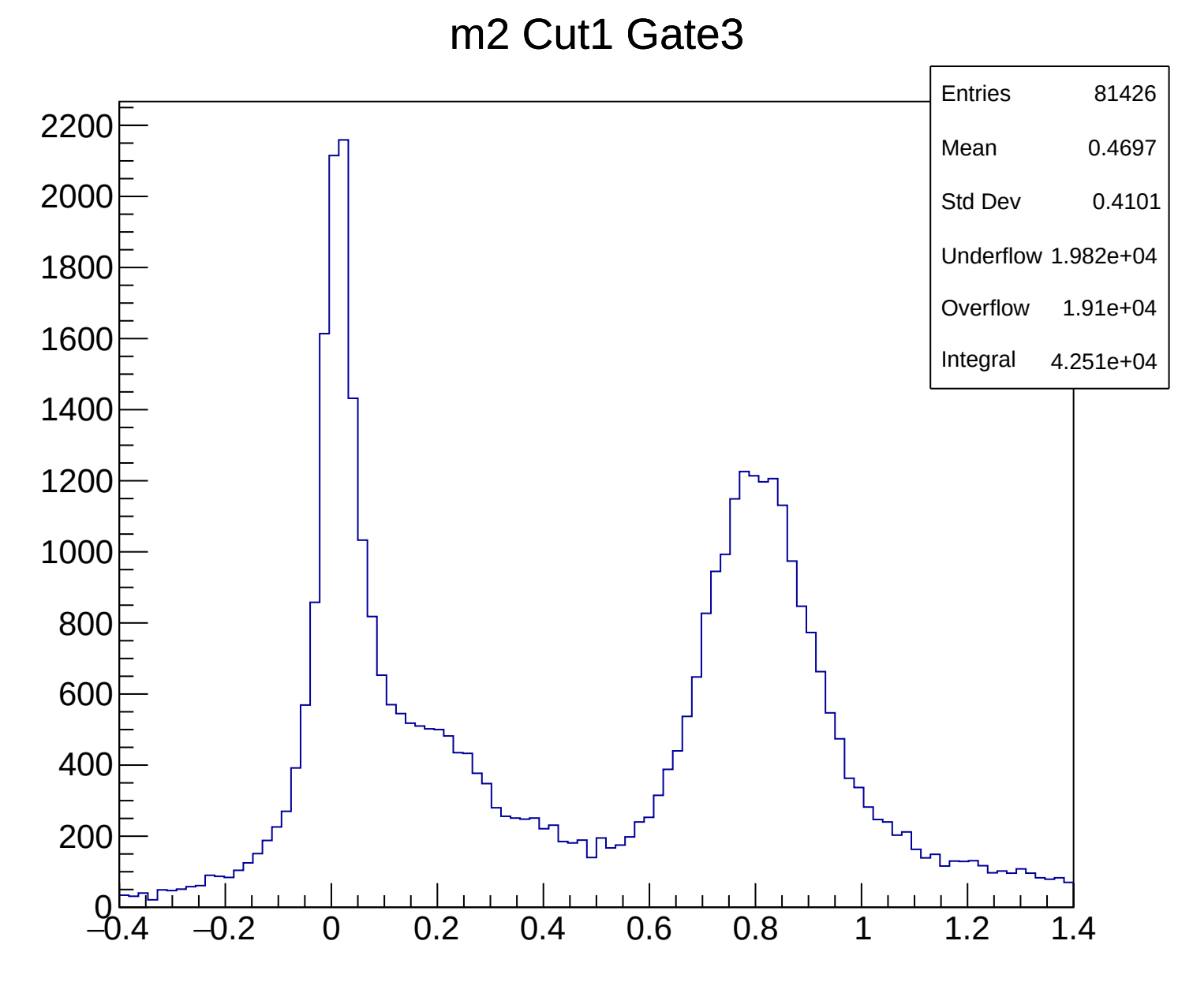
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4


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
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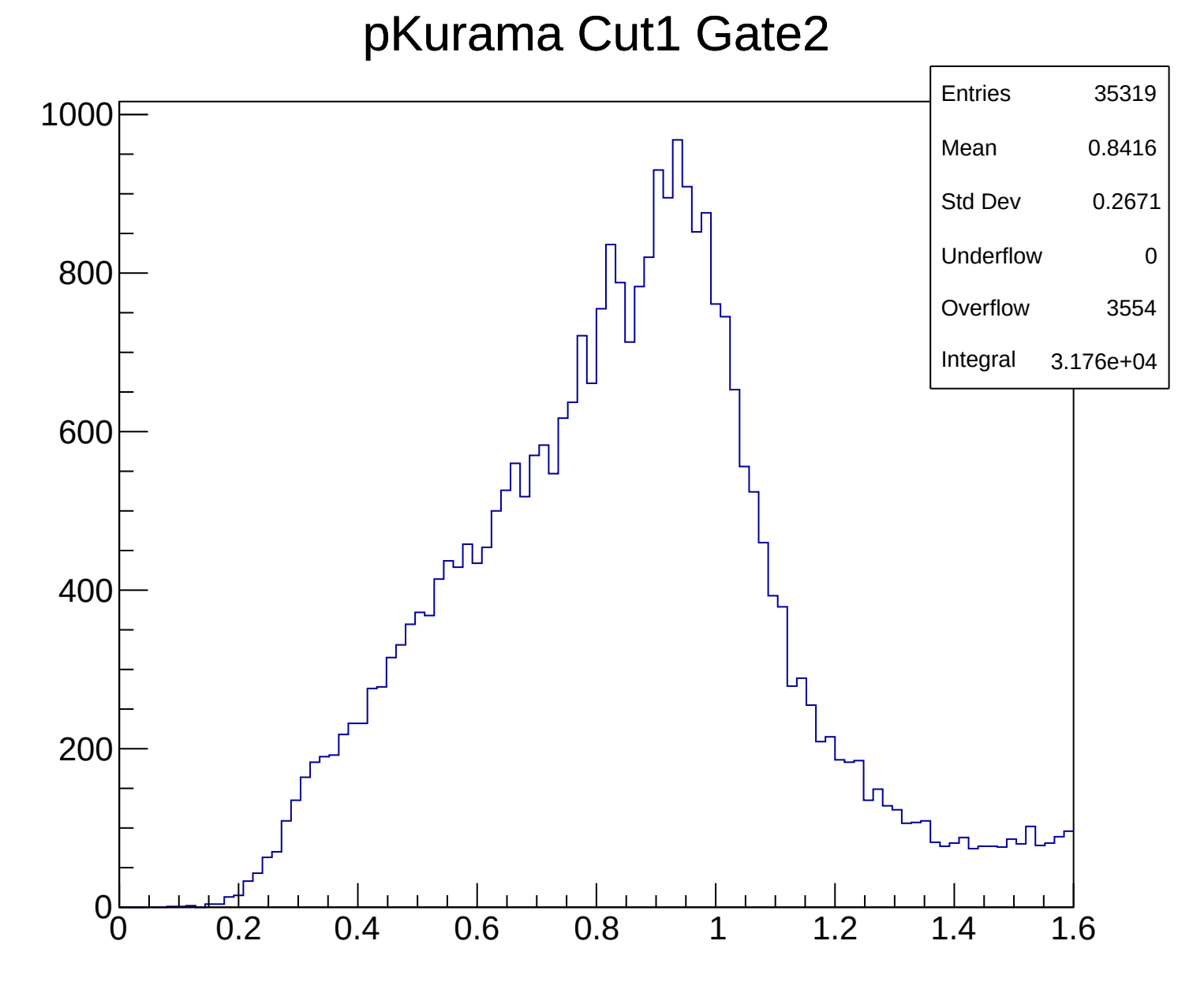
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4


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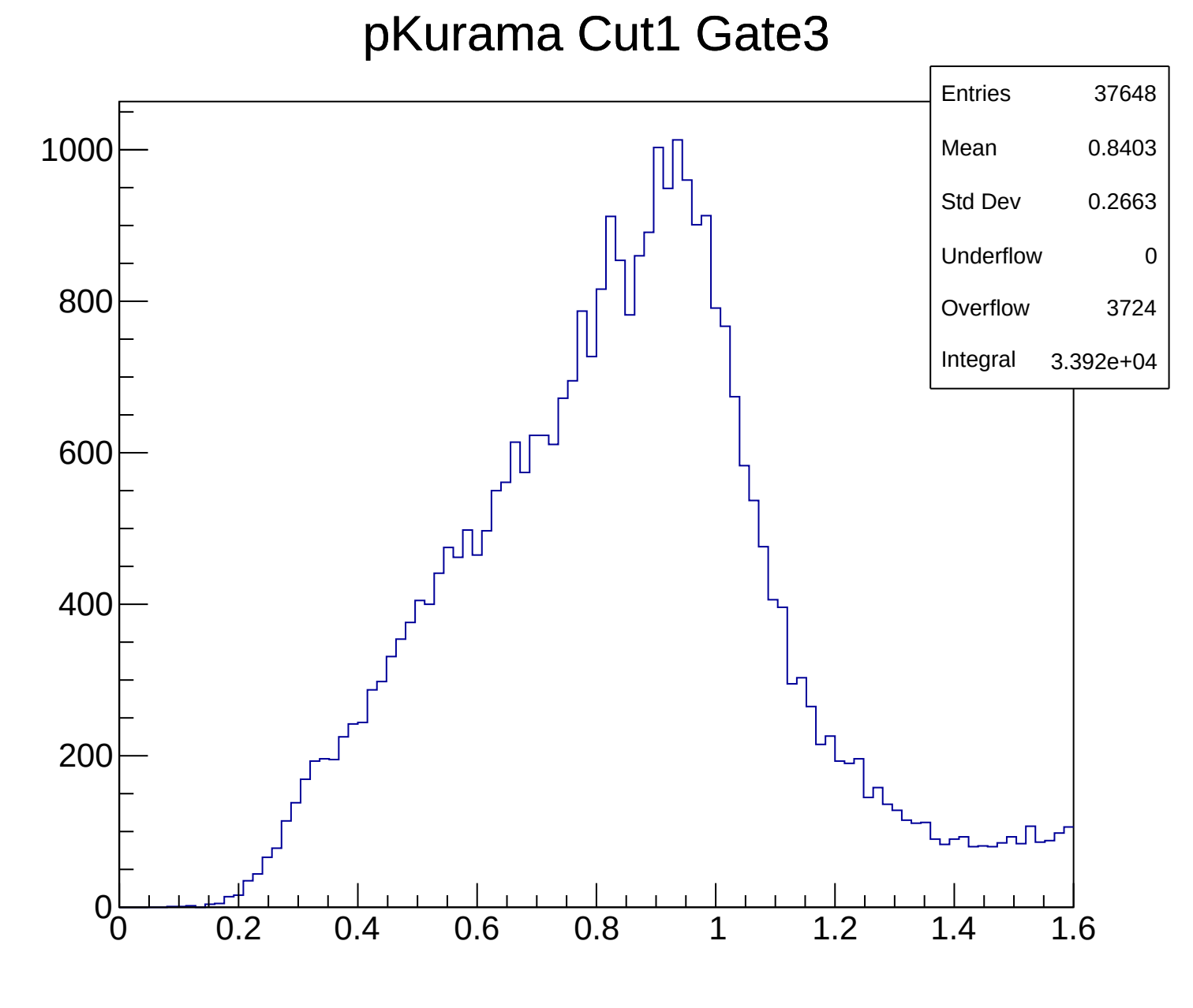
1.4
1.6


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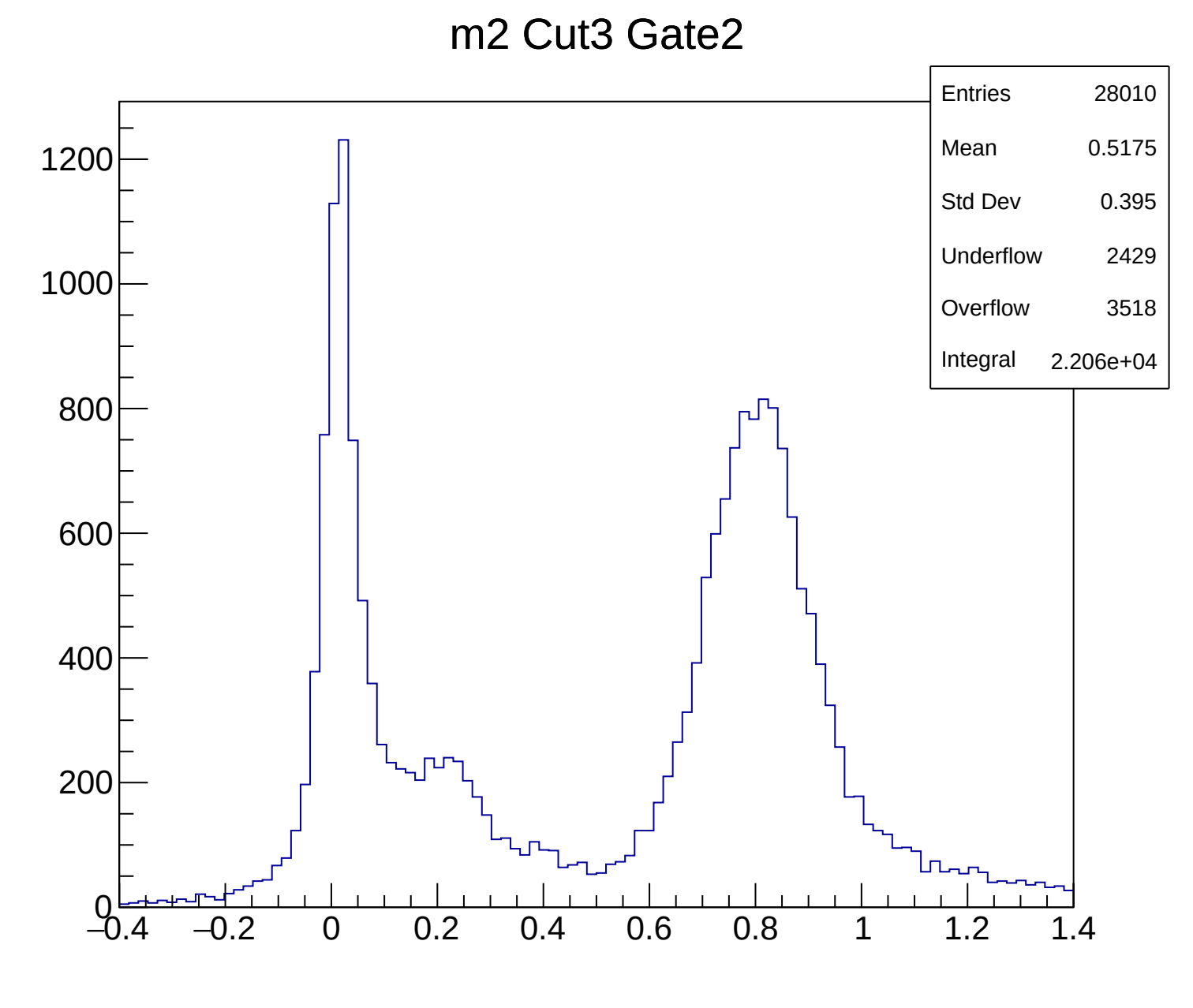
1.2
1.4
1.6


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
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0
0.2
0.4
0.6
0.8
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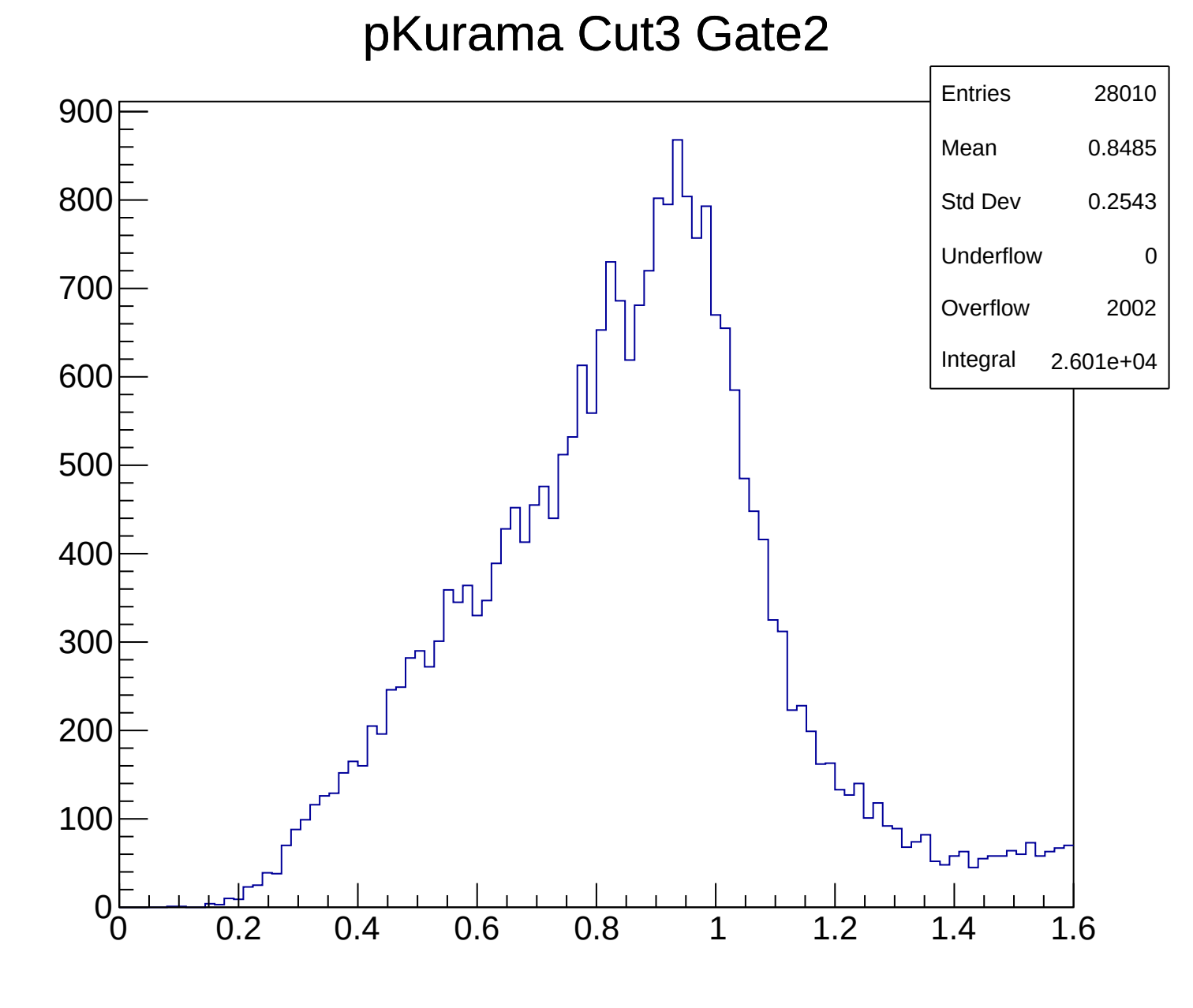
1.2
1.4


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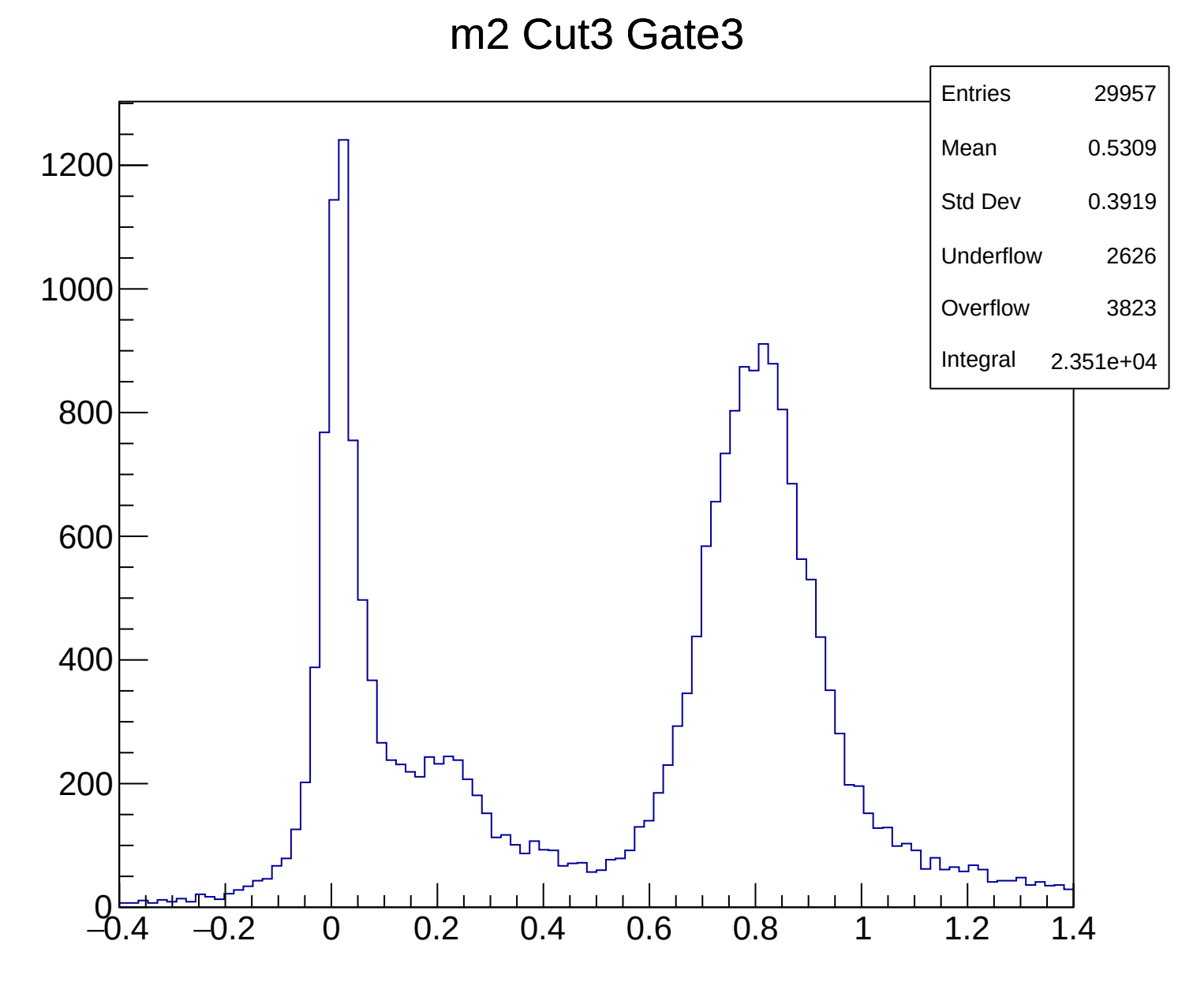
1.2
1.4
1.6


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
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0.4
0.6
0.8
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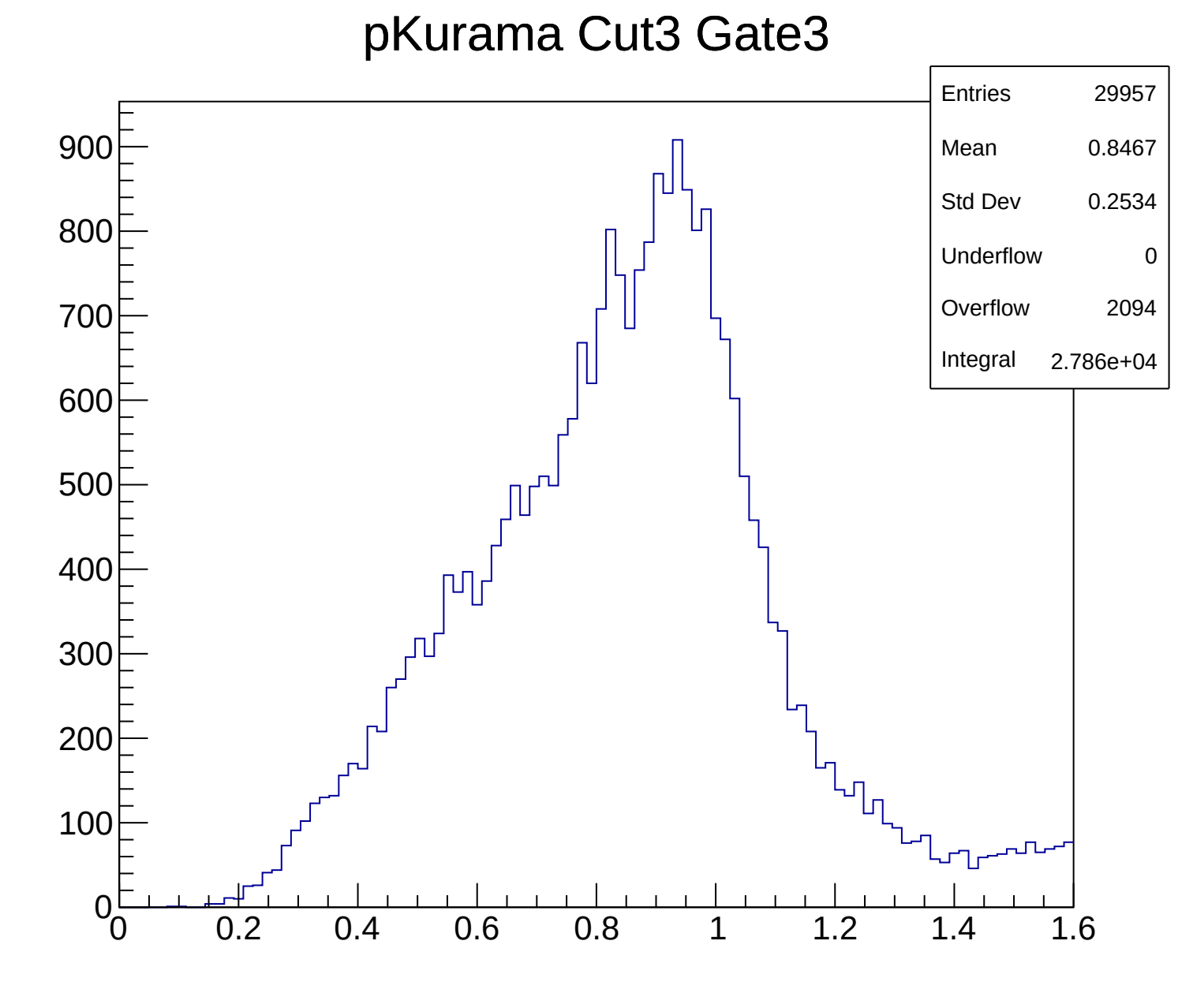
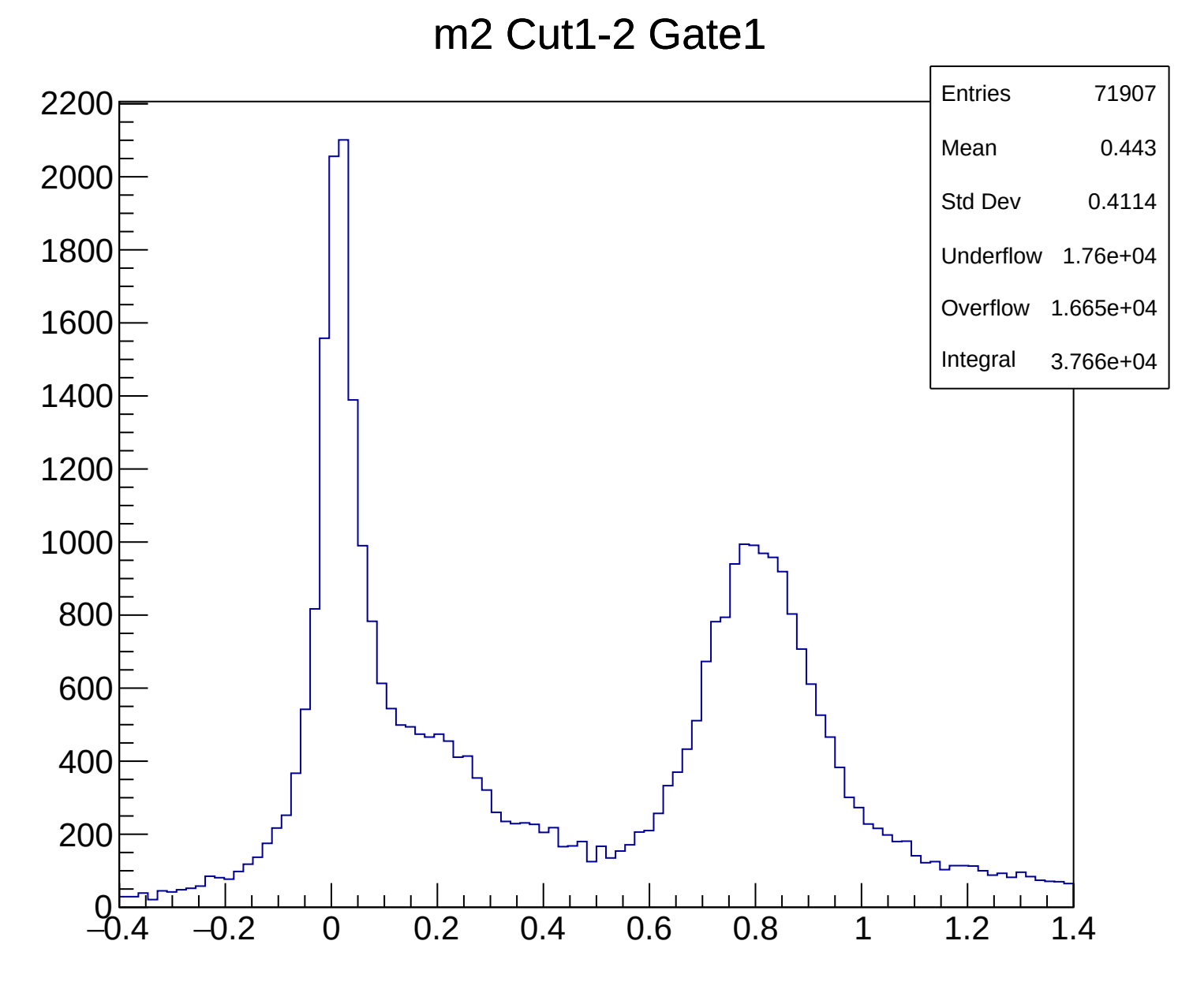
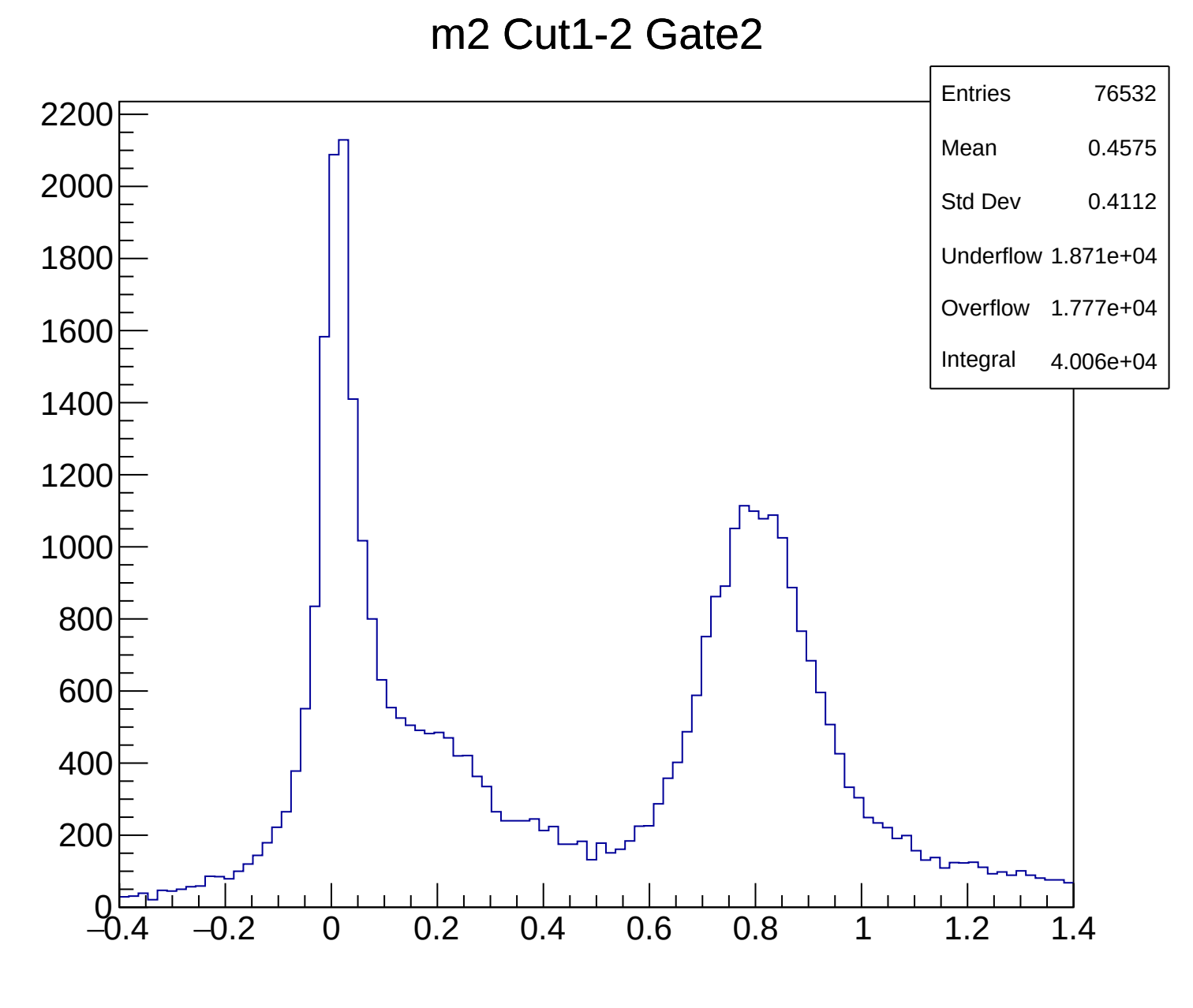
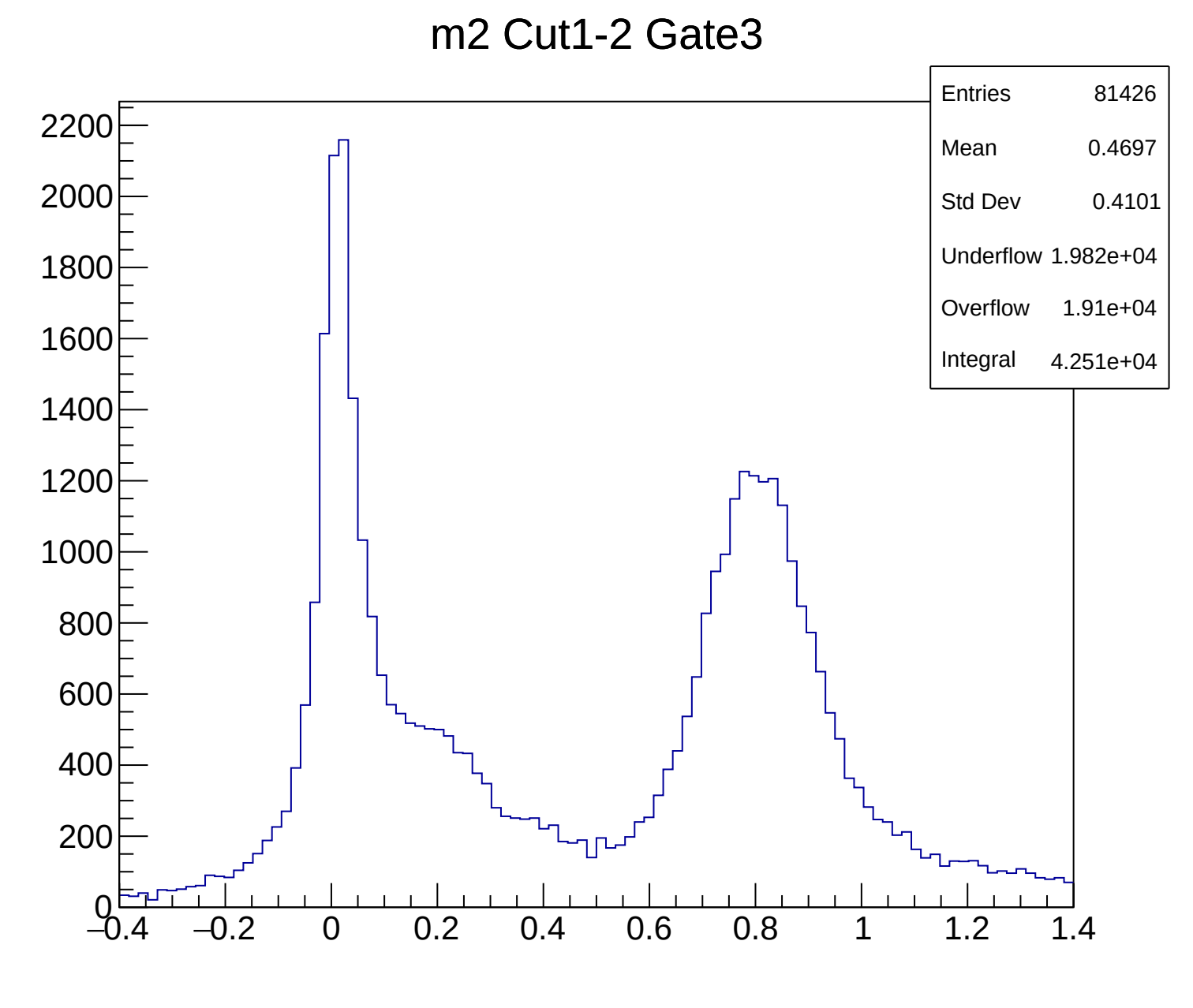
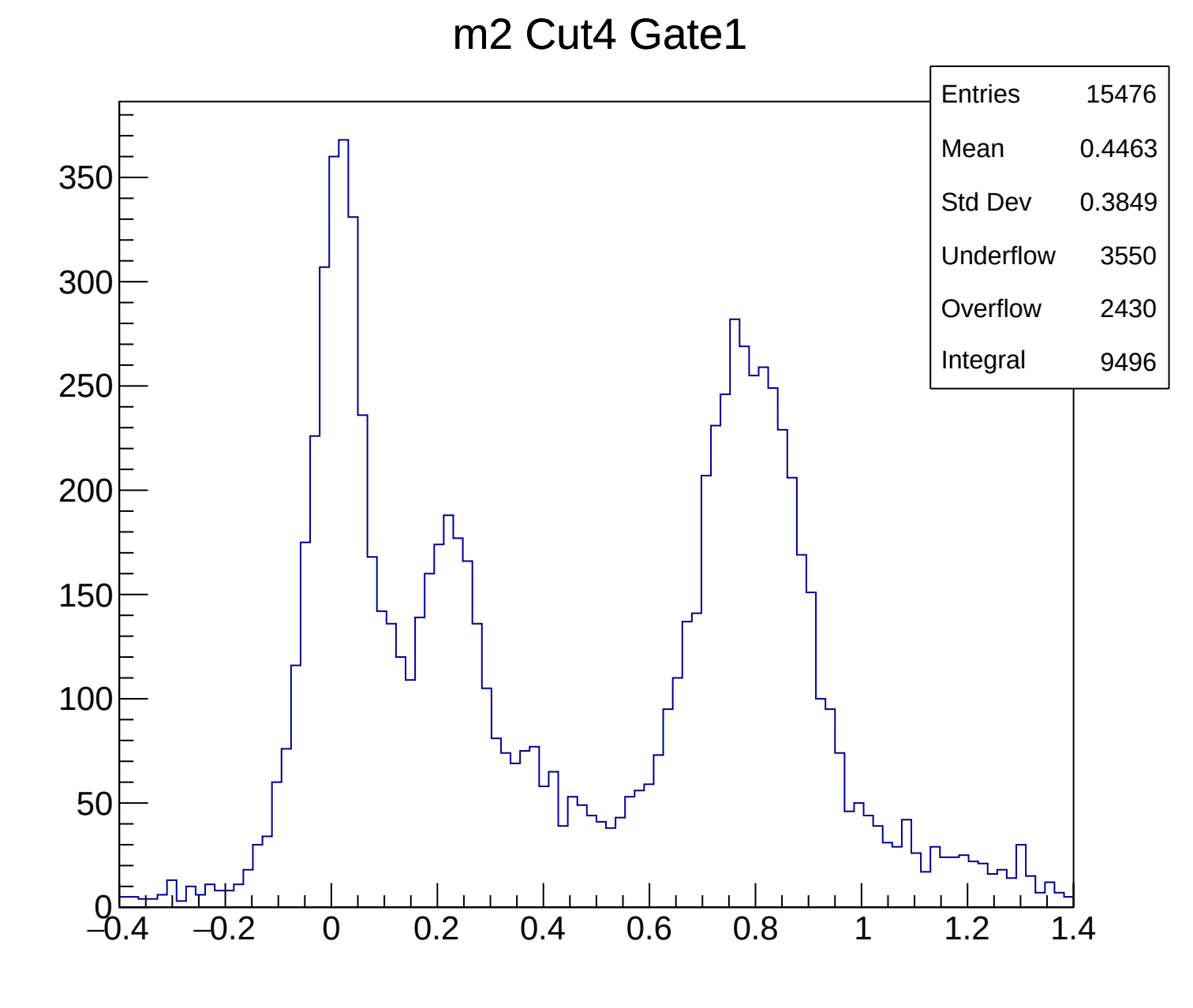
1.2
1.4

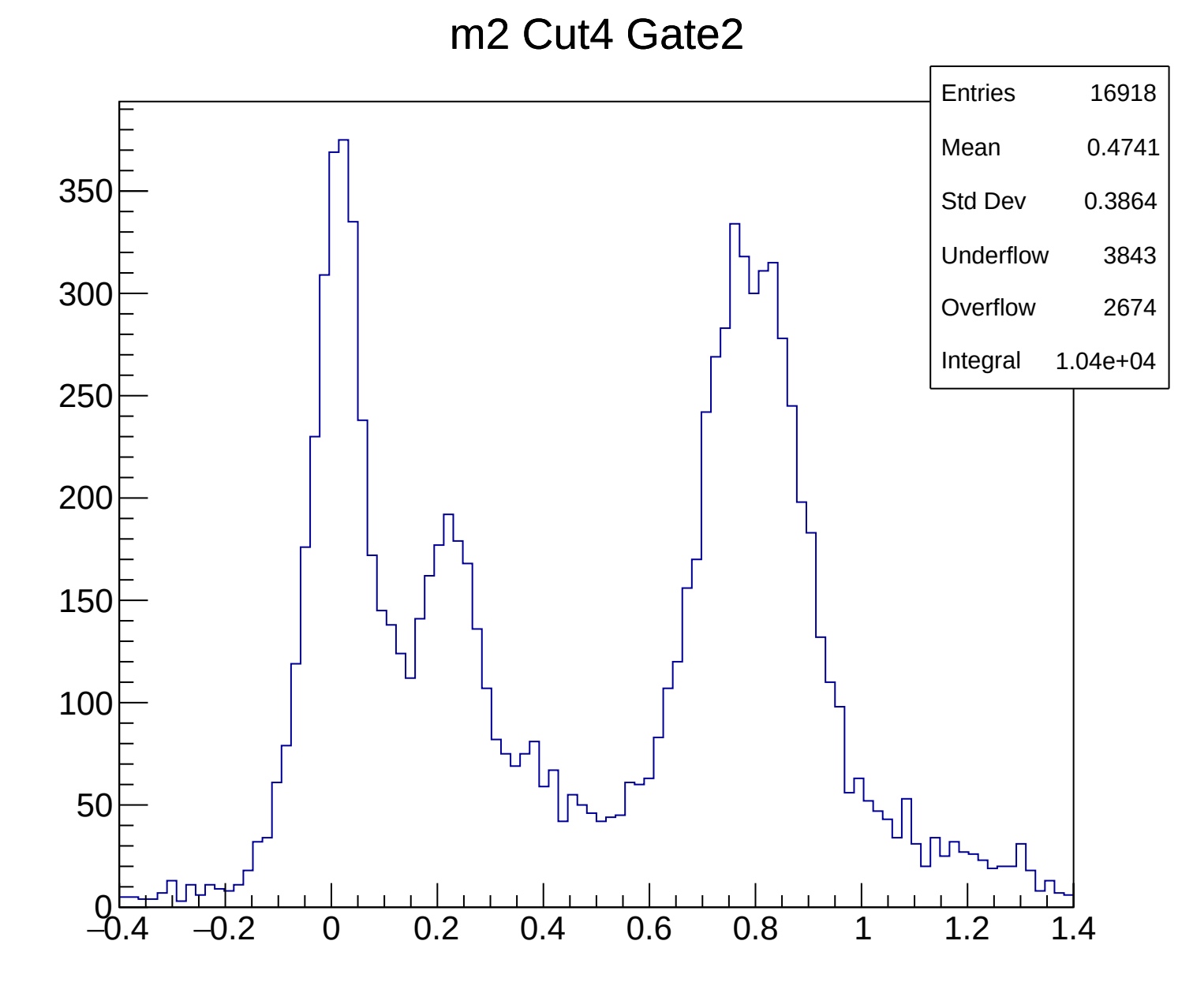

pKurama Cut3 Gate3
Entries 29957
Mean 0.8467
Std Dev 0.2534
Underflow 0
Overflow 2094
Integral 2.786e+04
900
800
700
600
500
400
300
200
100
0
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6

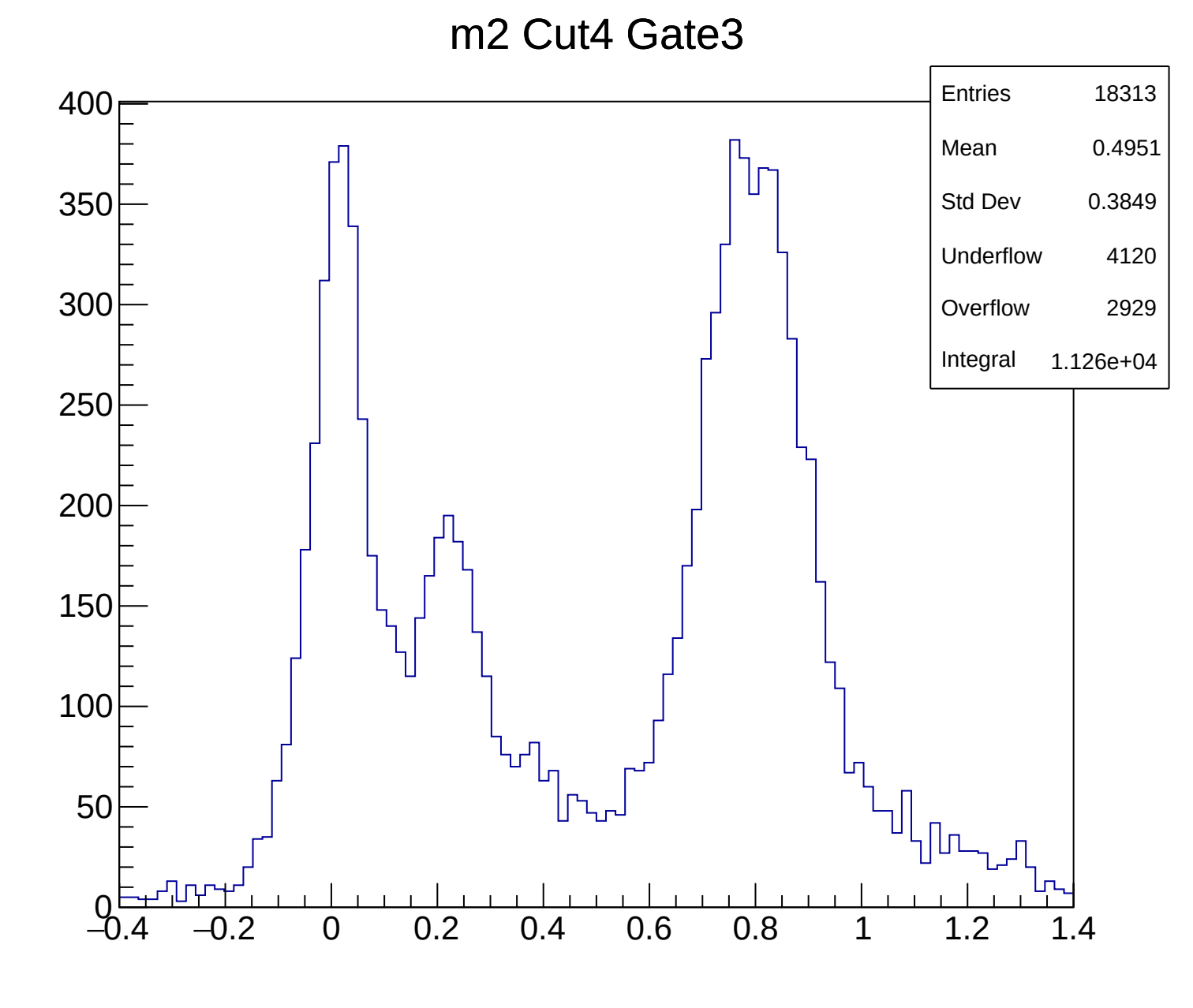

m2 Cut1-2 Gate1
Entries 71907
Mean 0.443
Std Dev 0.4114
Underflow 1.76e+04
Overflow 1.665e+04
Integral 3.766e+04
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4

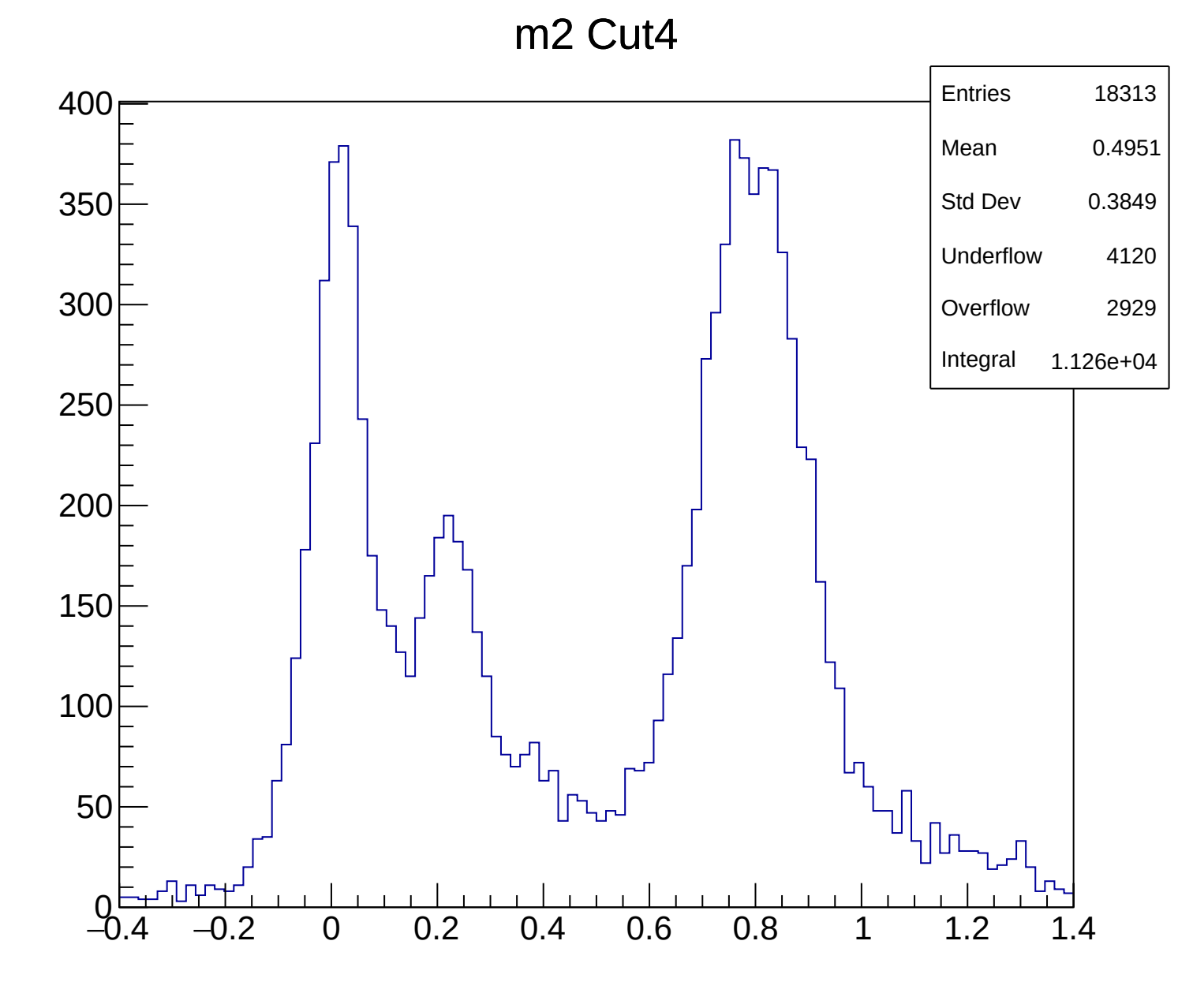

m2 Cut1-2 Gate2
Entries 76532
Mean 0.4575
Std Dev 0.4112
Underflow 1.871e+04
Overflow 1.777e+04
Integral 4.006e+04
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4

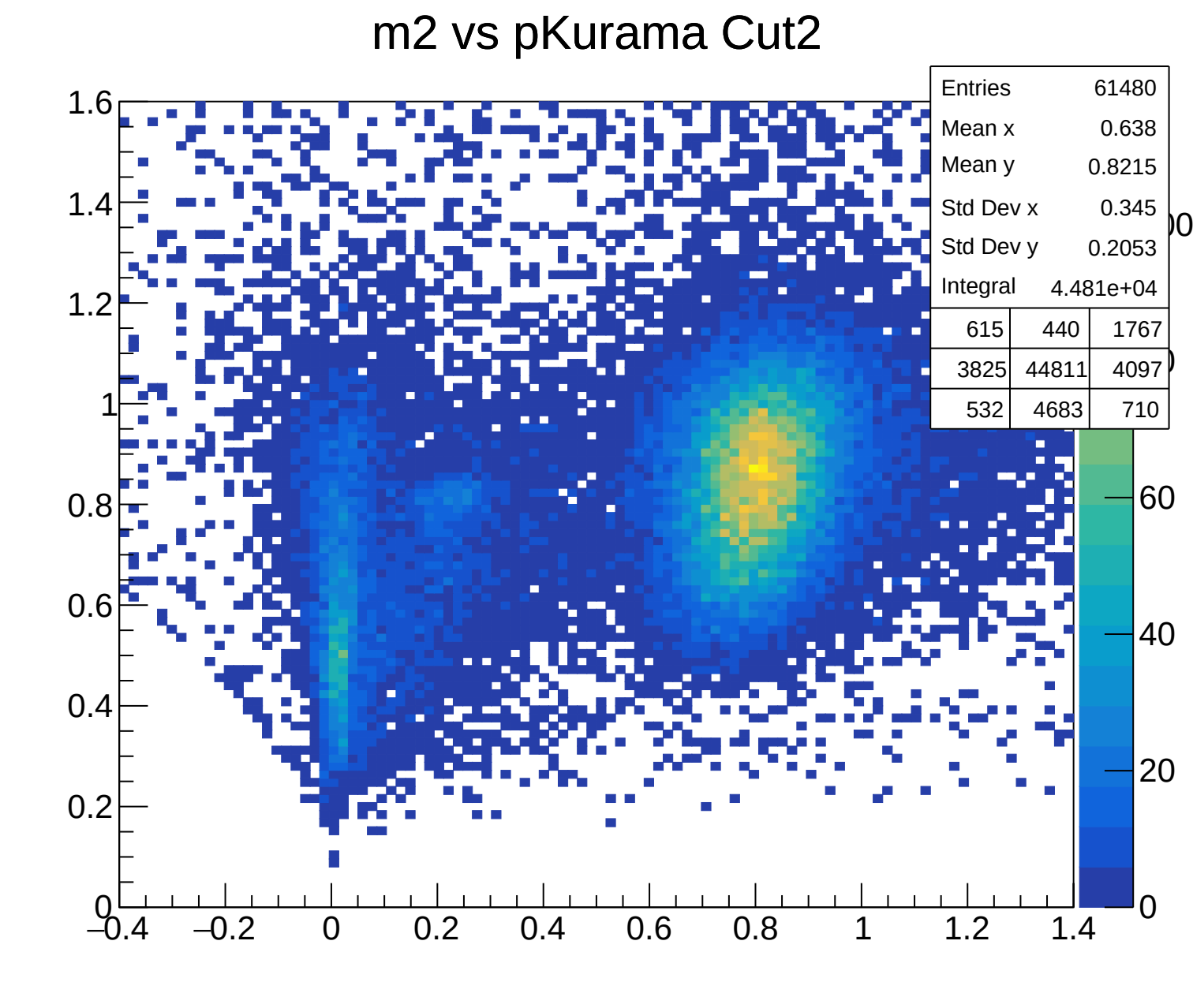

m2 Cut1-2 Gate3
Entries 81426
Mean 0.4697
Std Dev 0.4101
Underflow 1.982e+04
Overflow 1.91e+04
Integral 4.251e+04
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4

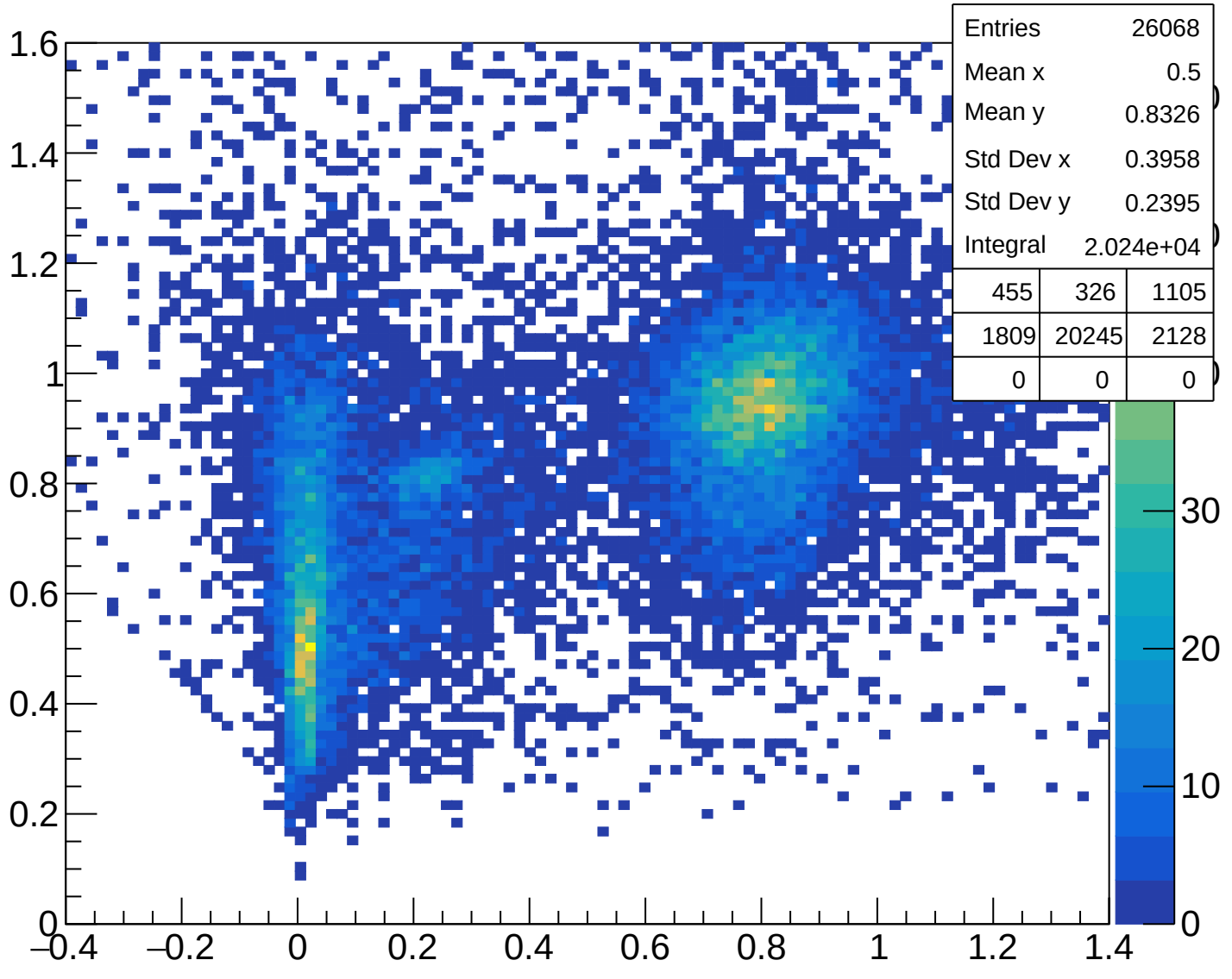

m2 Cut4 Gate1
Entries 15476
Mean 0.4463
Std Dev 0.3849
Underflow 3550
Overflow 2430
Integral 9496
350
300
250
200
150
100
50
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4

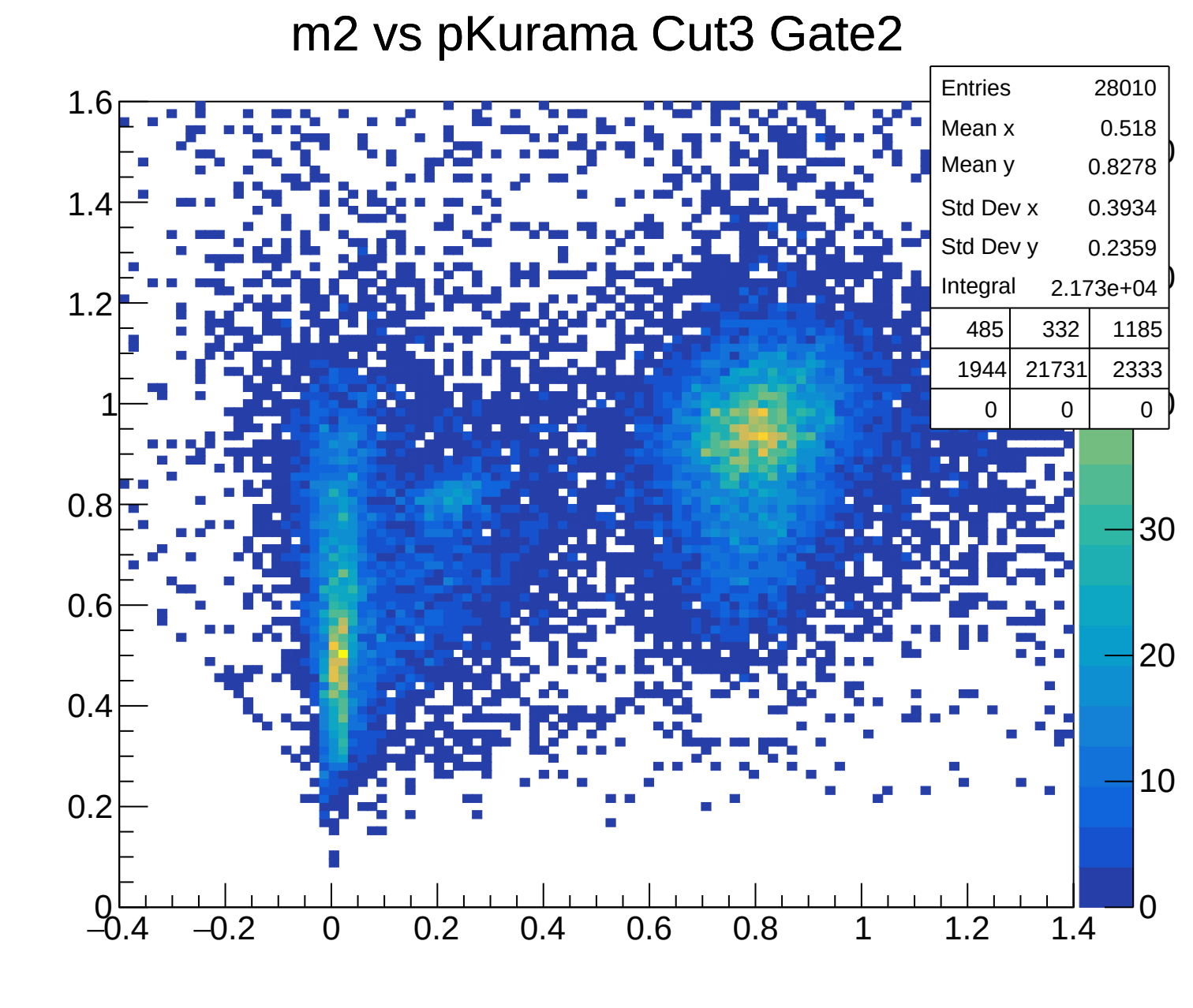

m2 Cut4 Gate2
Entries 16918
Mean 0.4741
Std Dev 0.3864
Underflow 3843
Overflow 2674
Integral 1.04e+04
350
300
250
200
150
100
50
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4

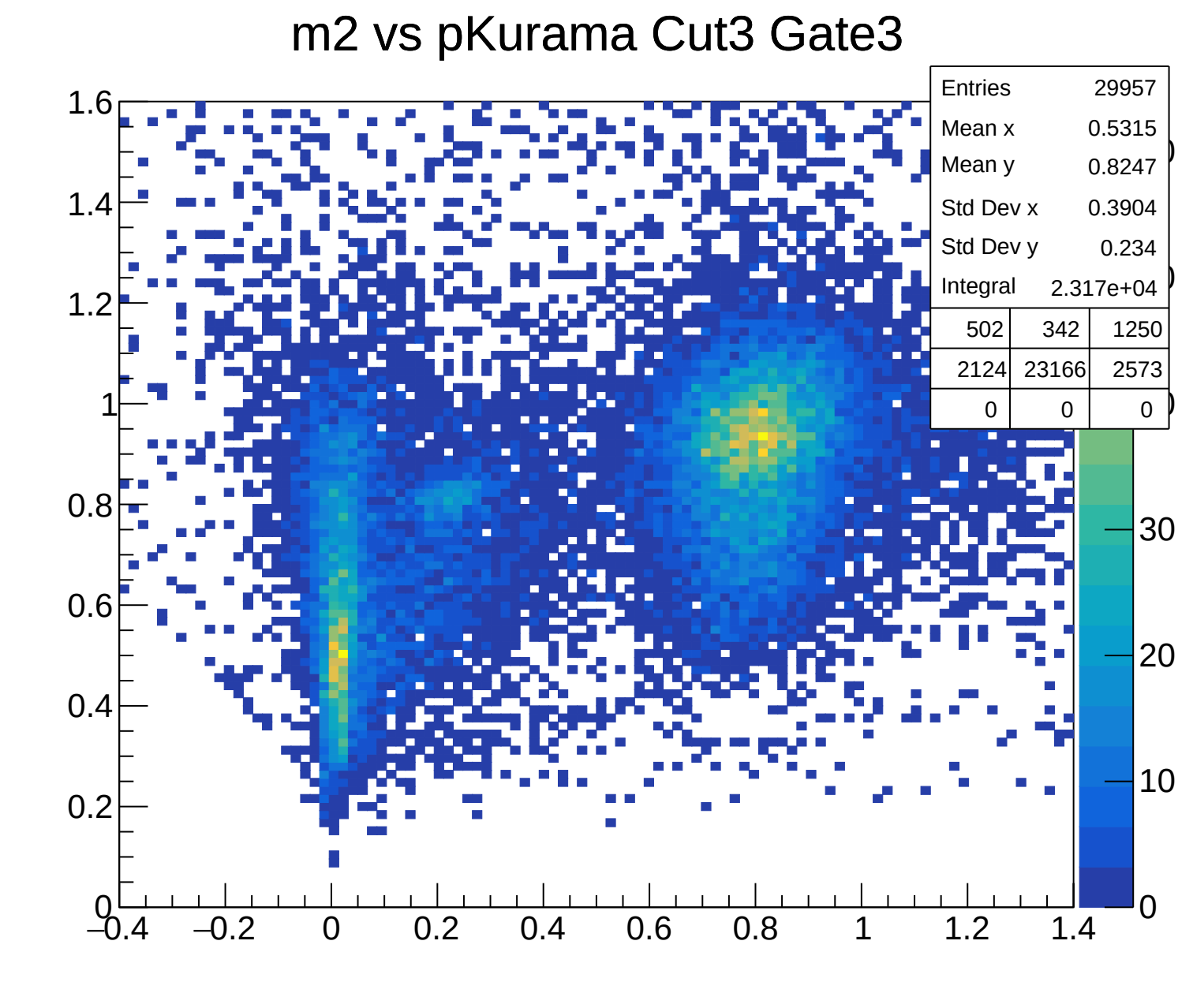

m2 Cut4 Gate3
Entries 18313
Mean 0.4951
Std Dev 0.3849
Underflow 4120
Overflow 2929
Integral 1.126e+04
400
350
300
250
200
150
100
50
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4

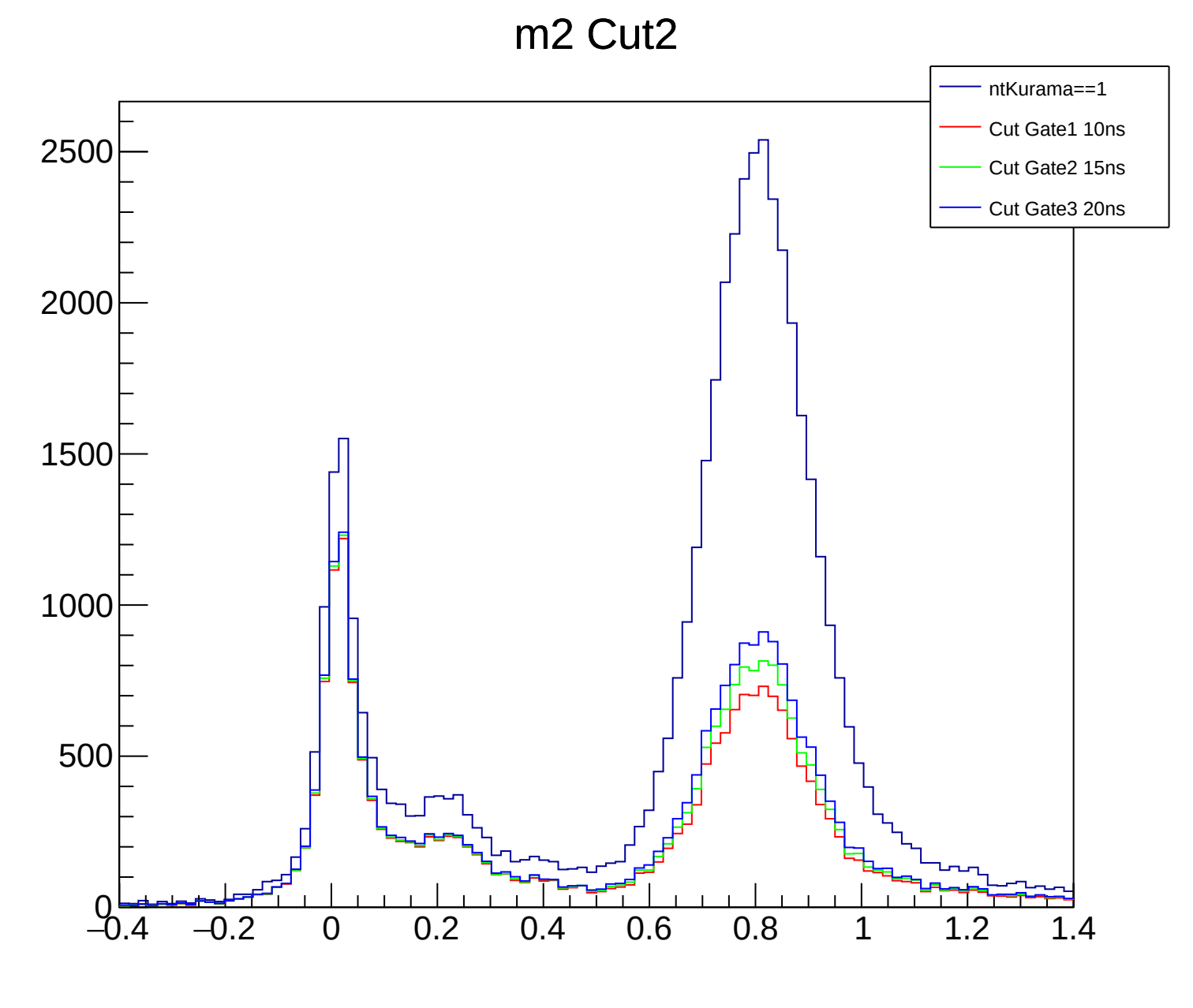

m2 Cut4
Entries 18313
Mean 0.4951
Std Dev 0.3849
Underflow 4120
Overflow 2929
Integral 1.126e+04
400
350
300
250
200
150
100
50
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4

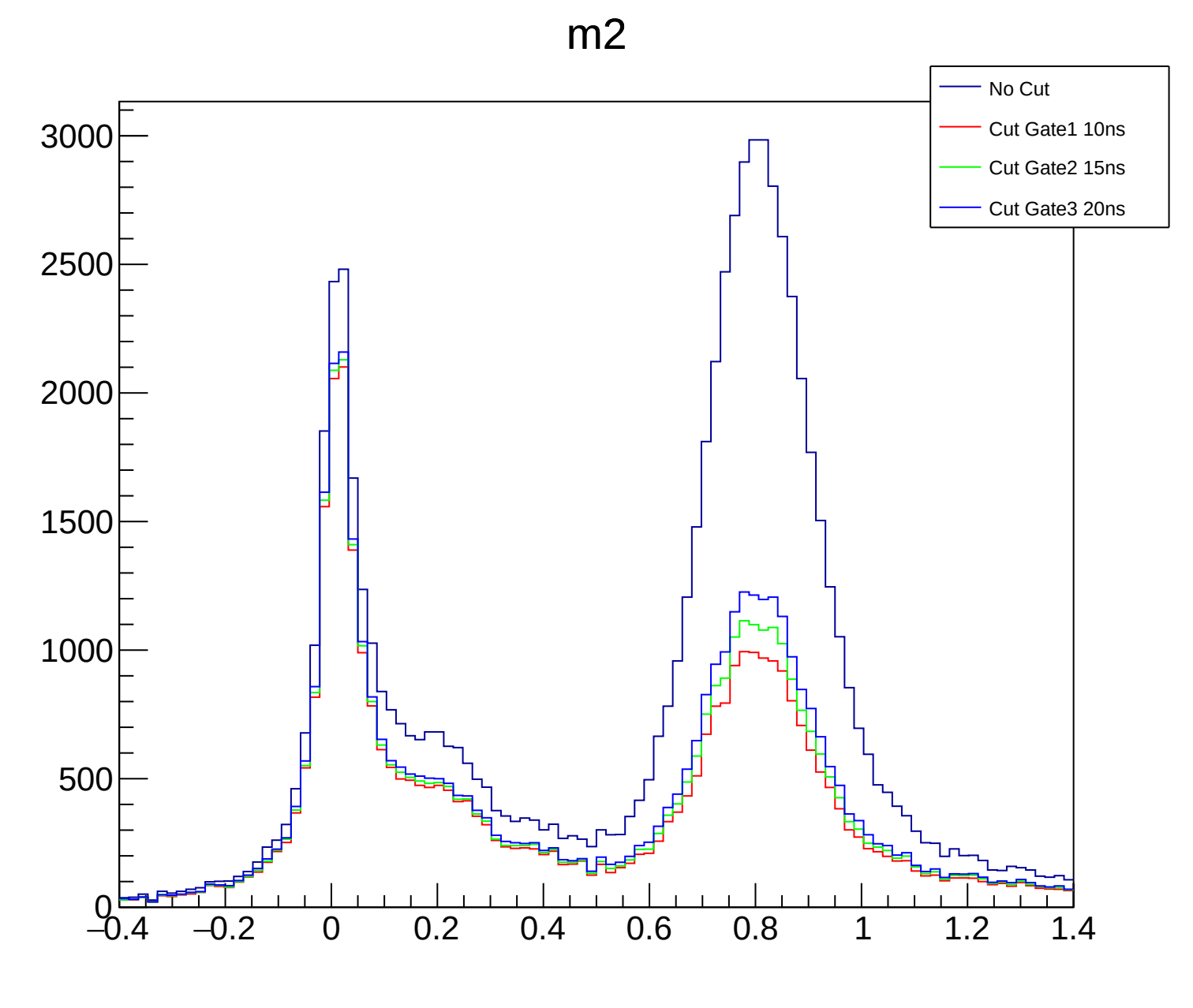

m2 vs pKurama Cut2
Entries 61480
Mean x 0.638
Mean y 0.8215
Std Dev x 0.345
Std Dev y 0.2053
Integral 4.481e+04
615 440 1767
3825 44811 4097
532 4683 710
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4
60
40
20
0

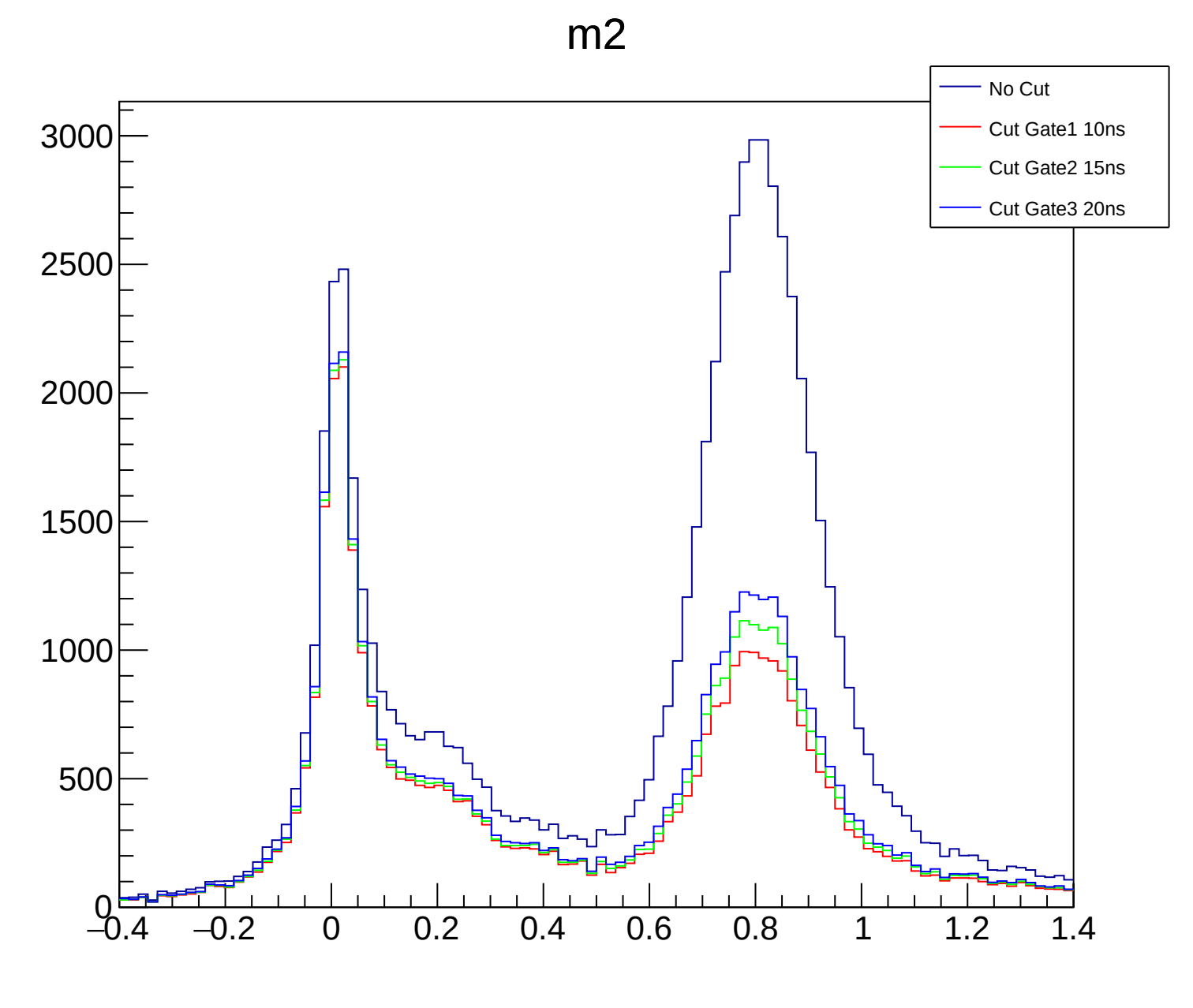

m2 vs pKurama Cut3 Gate1
Entries 26068
Mean x 0.5
Mean y 0.8326
Std Dev x 0.3958
Std Dev y 0.2395
Integral 2.024e+04
455 326 1105
1809 20245 2128
0 0 0
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4
30
20
10
0

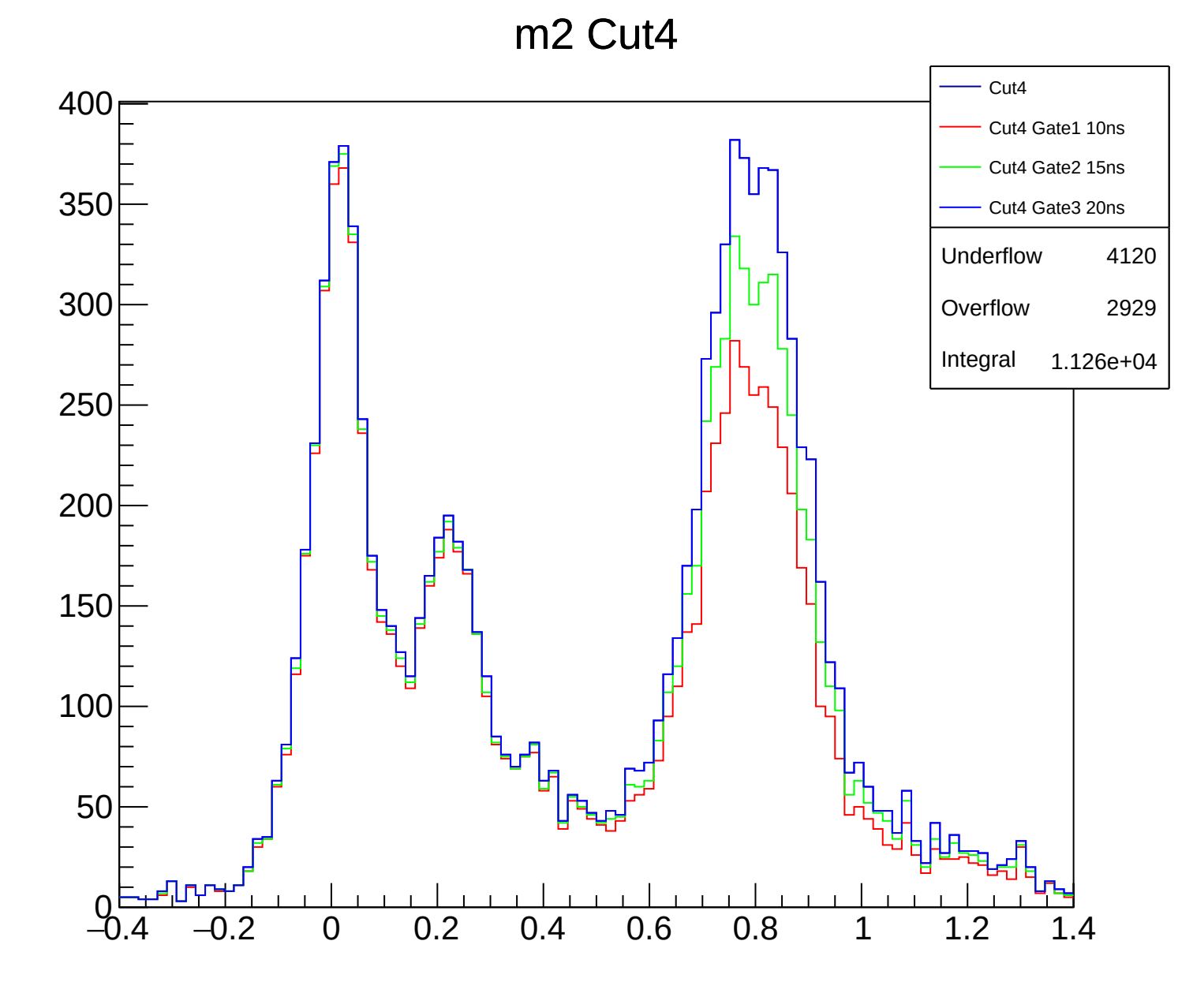

m2 vs pKurama Cut3 Gate2
Entries 28010
Mean x 0.518
Mean y 0.8278
Std Dev x 0.3934
Std Dev y 0.2359
Integral 2.173e+04
485 332 1185
1944 21731 2333
0 0 0
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4
30
20
10
0

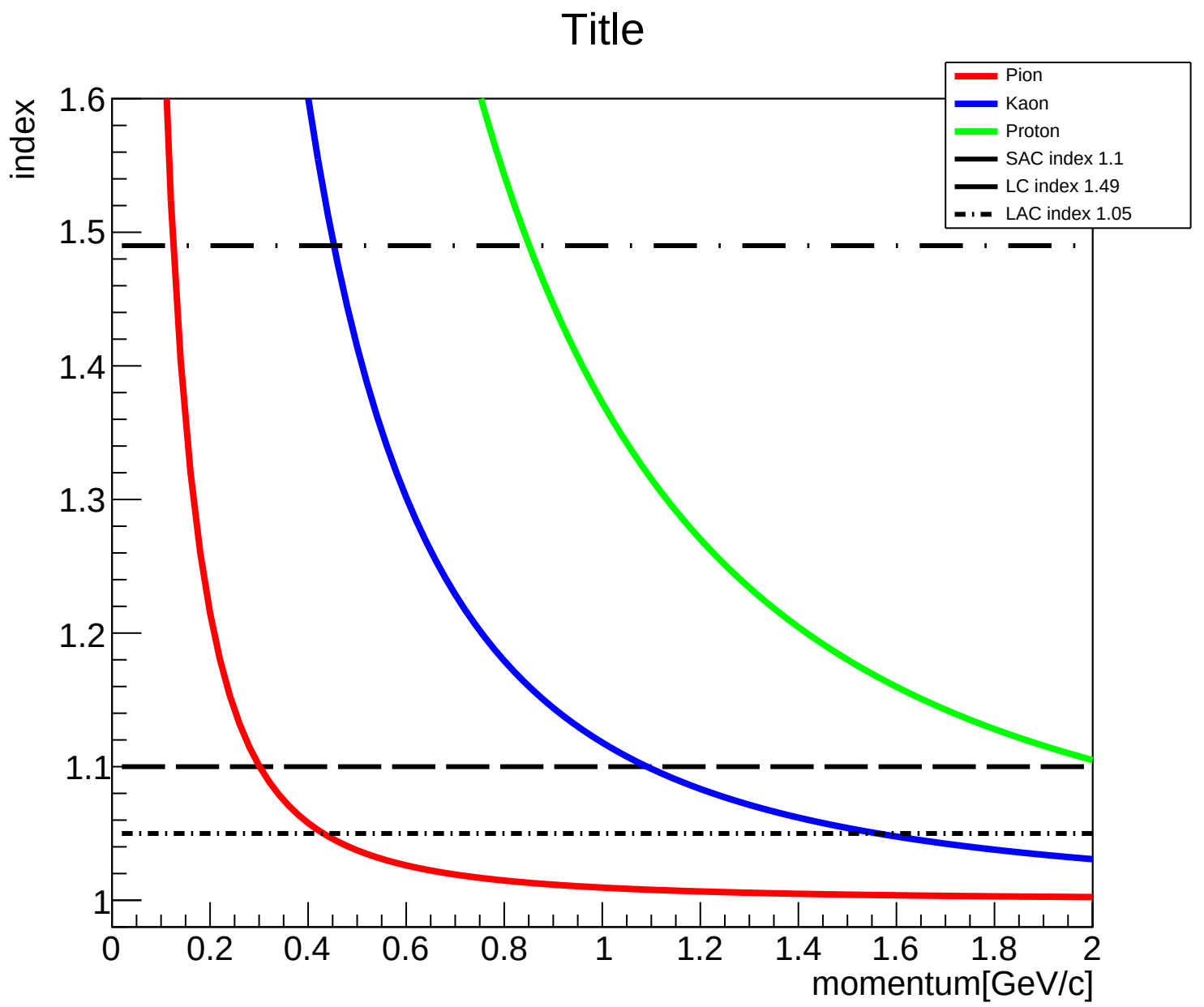

m2 vs pKurama Cut3 Gate3
Entries 29957
Mean x 0.5315
Mean y 0.8247
Std Dev x 0.3904
Std Dev y 0.234
Integral 2.317e+04
502 342 1250
2124 23166 2573
0 0 0
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4
30
20
10
0

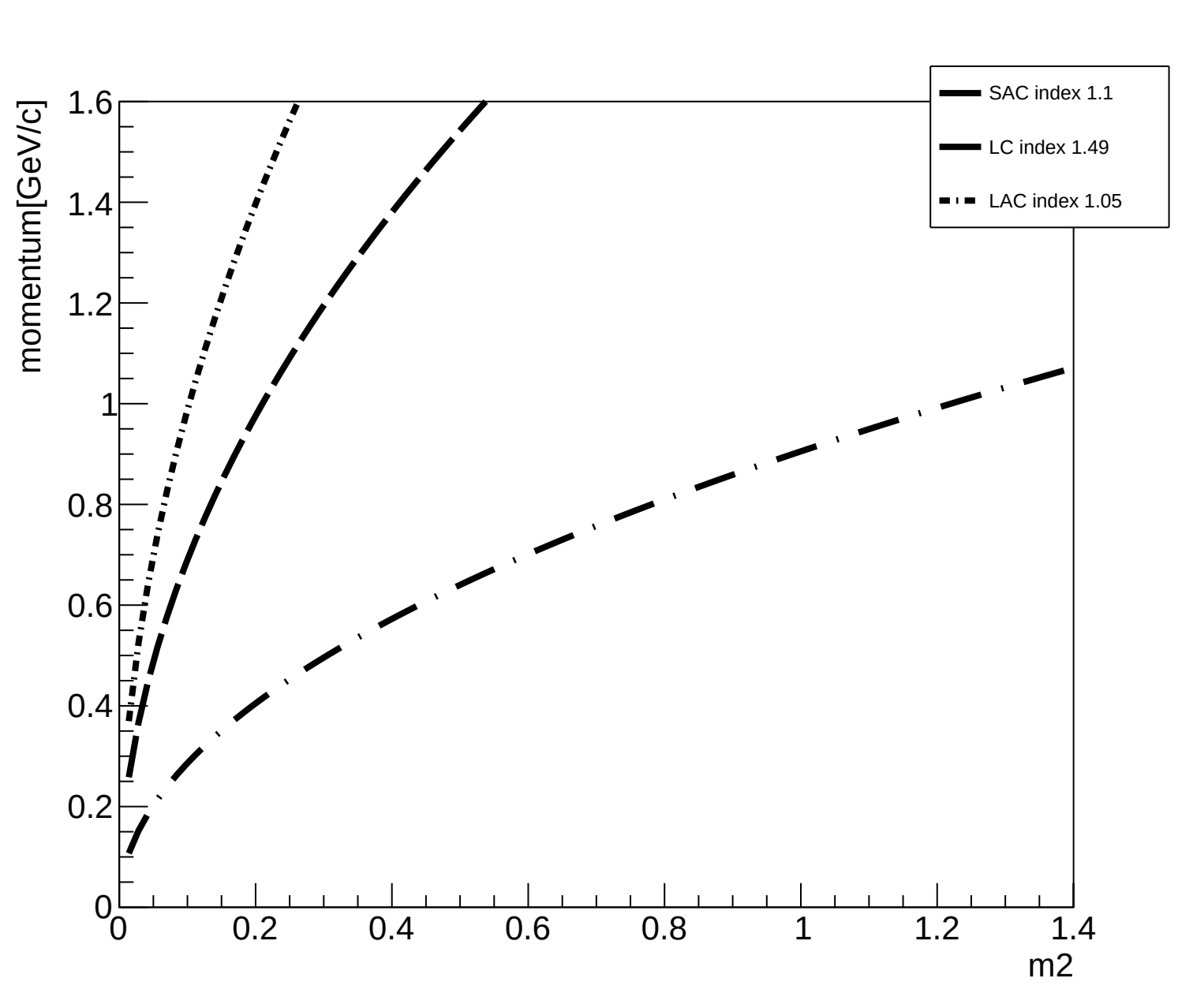

m2 Cut2
ntKurama==1
Cut Gate1 10ns
Cut Gate2 15ns
Cut Gate3 20ns
2500
2000
1500
1000
500
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4

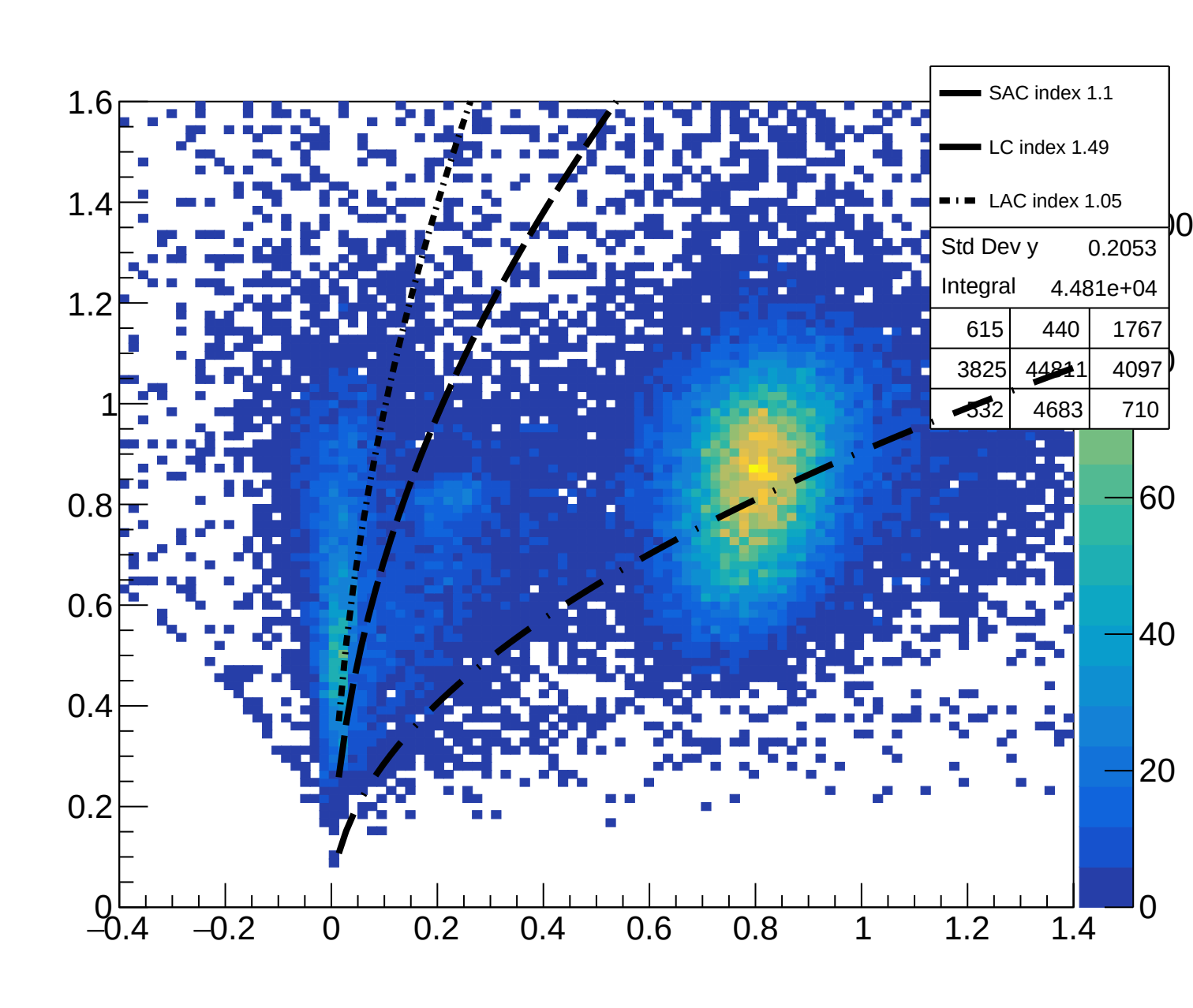

m2
No Cut
Cut Gate1 10ns
Cut Gate2 15ns
Cut Gate3 20ns
3000
2500
2000
1500
1000
500
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4

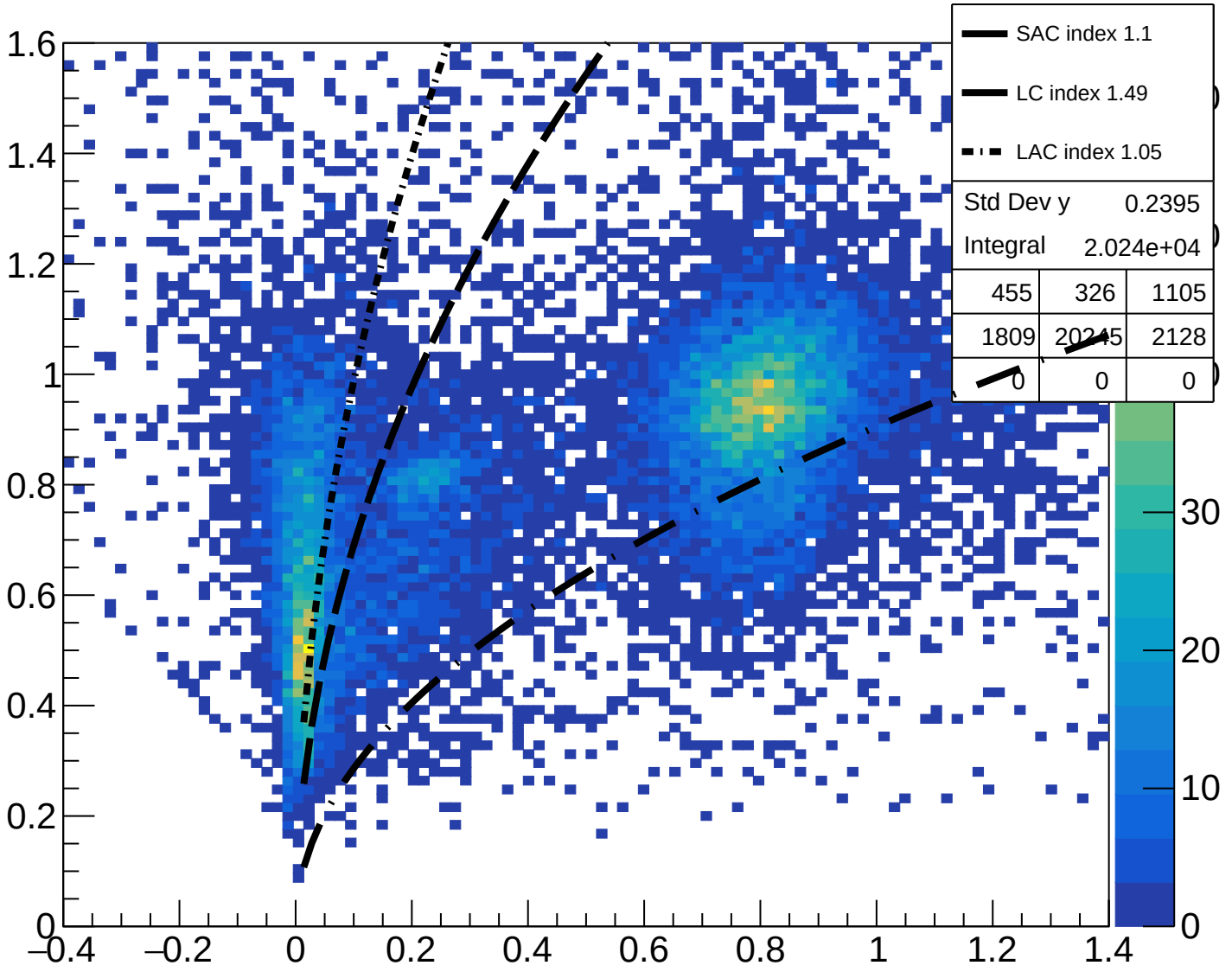

m2
No Cut
Cut Gate1 10ns
Cut Gate2 15ns
Cut Gate3 20ns
3000
2500
2000
1500
1000
500
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4

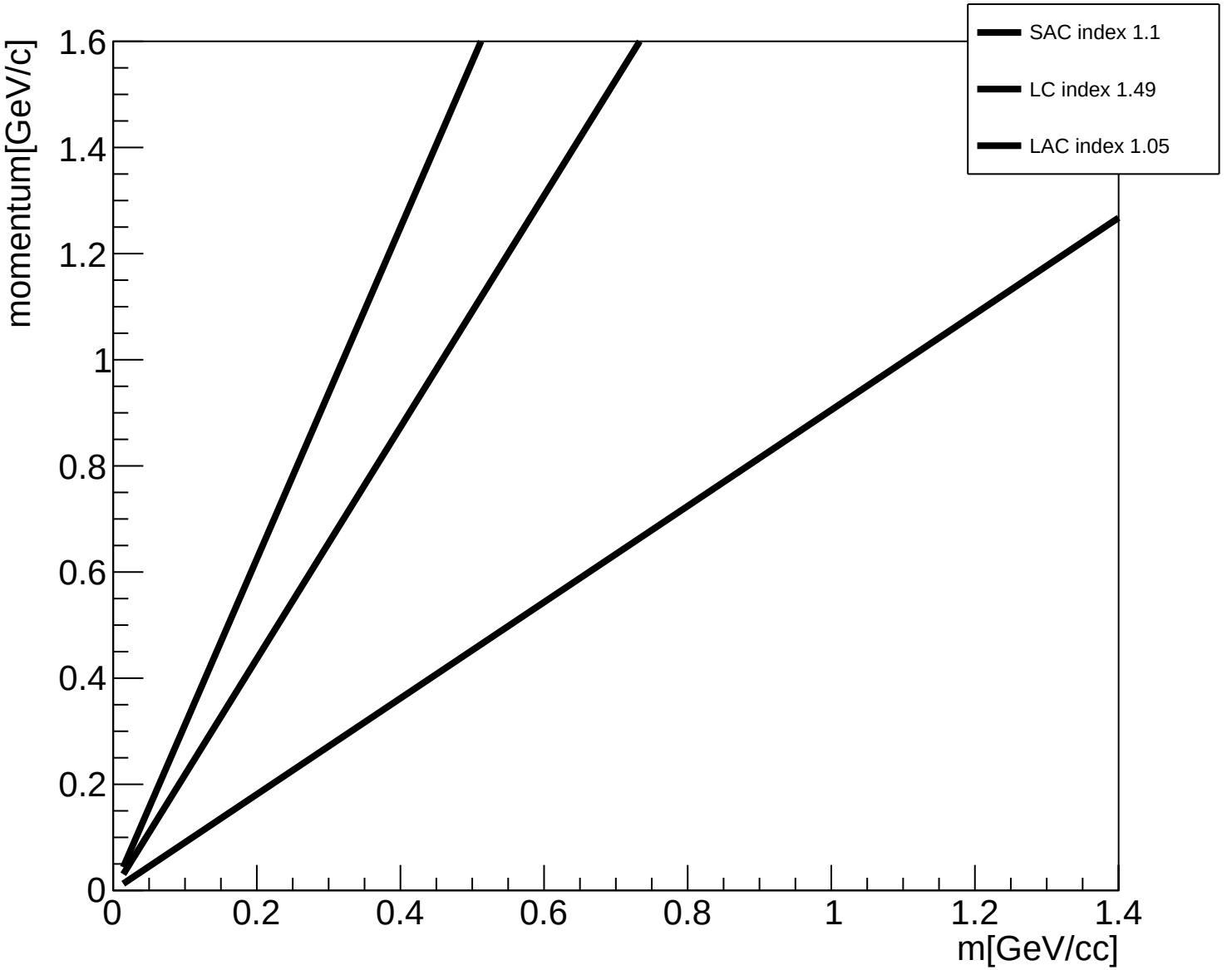

m2 Cut4
Cut4
Cut4 Gate1 10ns
Cut4 Gate2 15ns
Cut4 Gate3 20ns
Underflow 4120
Overflow 2929
Integral 1.126e+04
400
350
300
250
200
150
100
50
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4


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 0.2395
Integral 2.024e+04
455 326 1105
1809 20245 2128
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