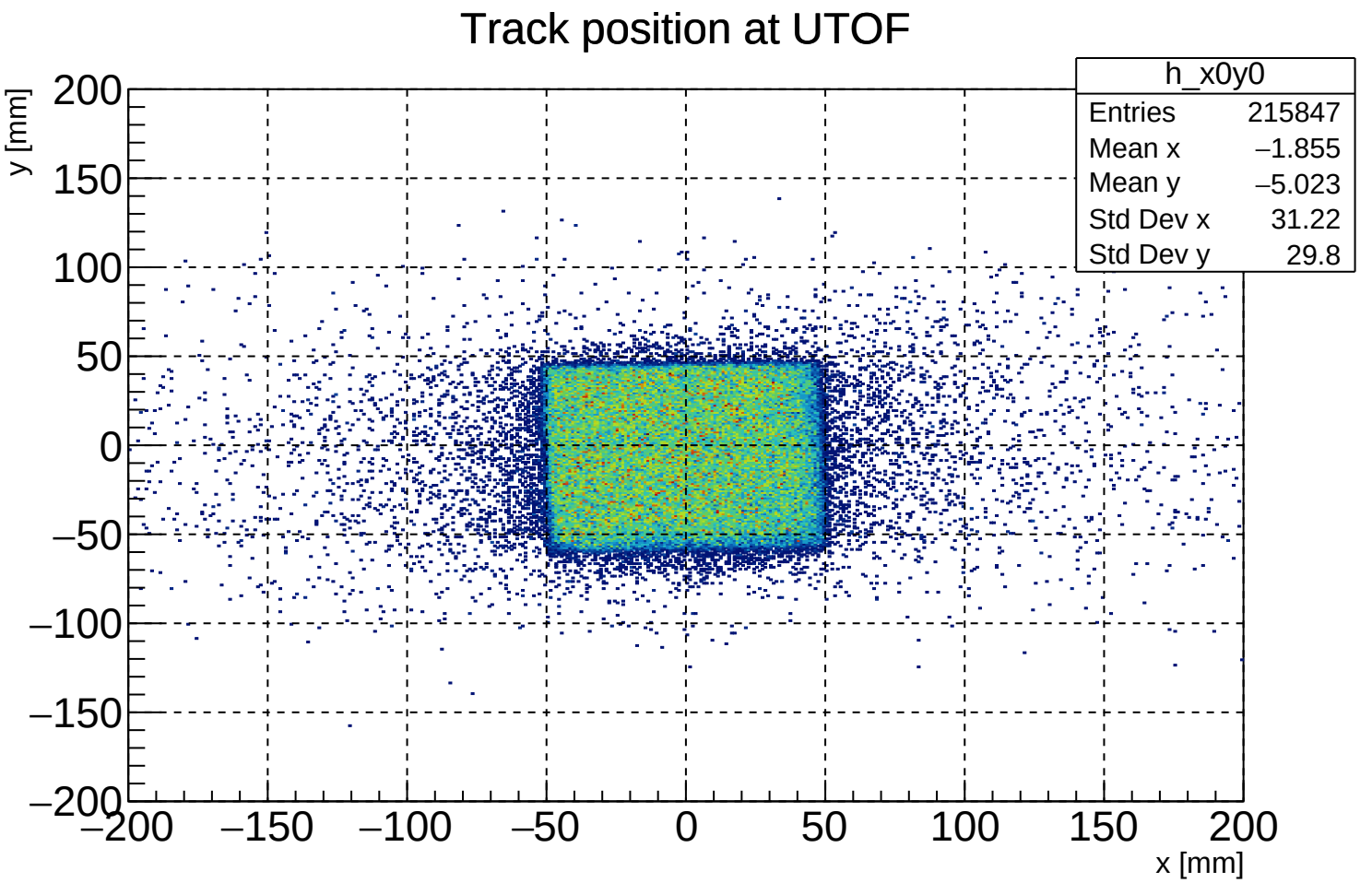
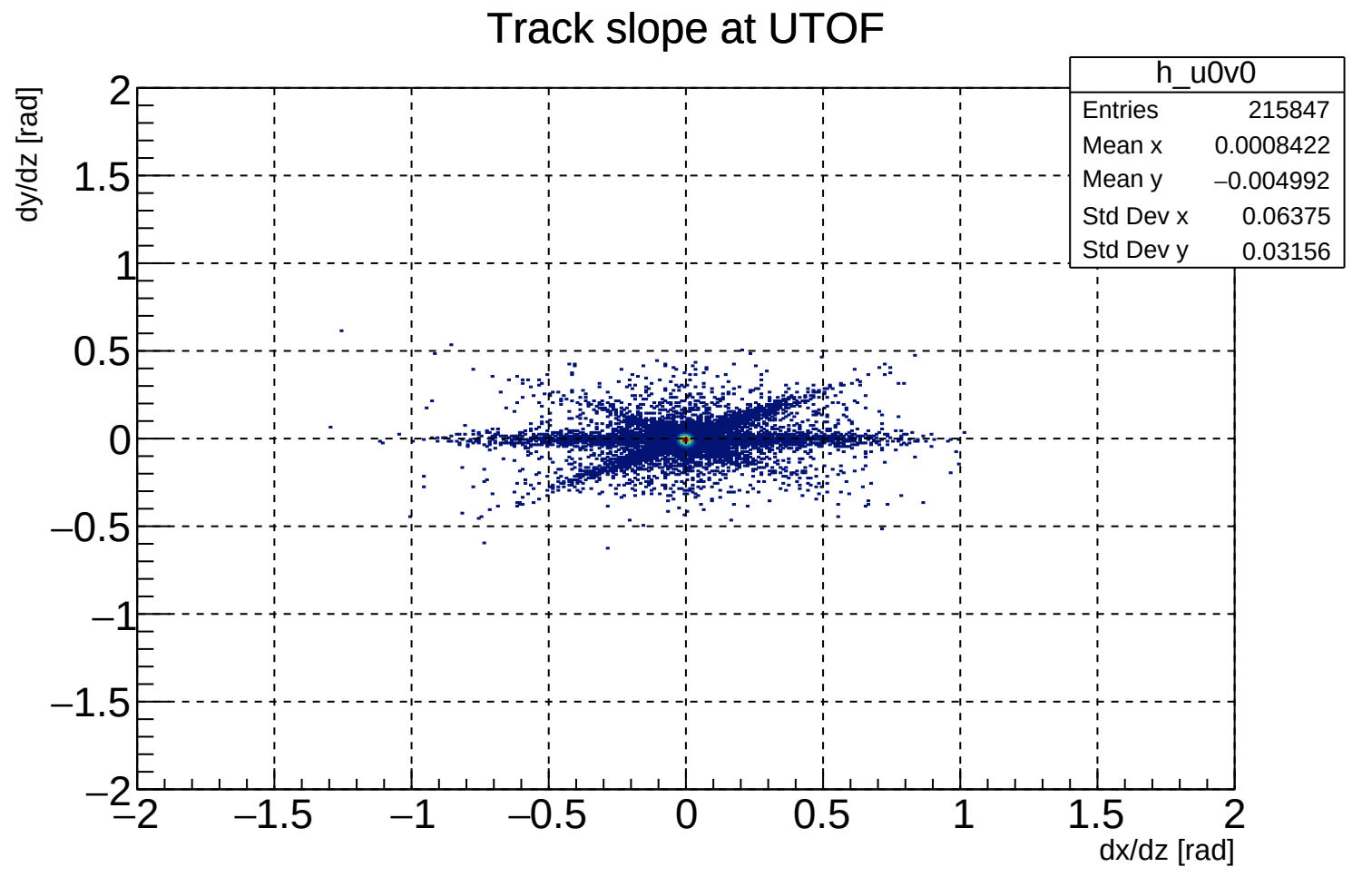
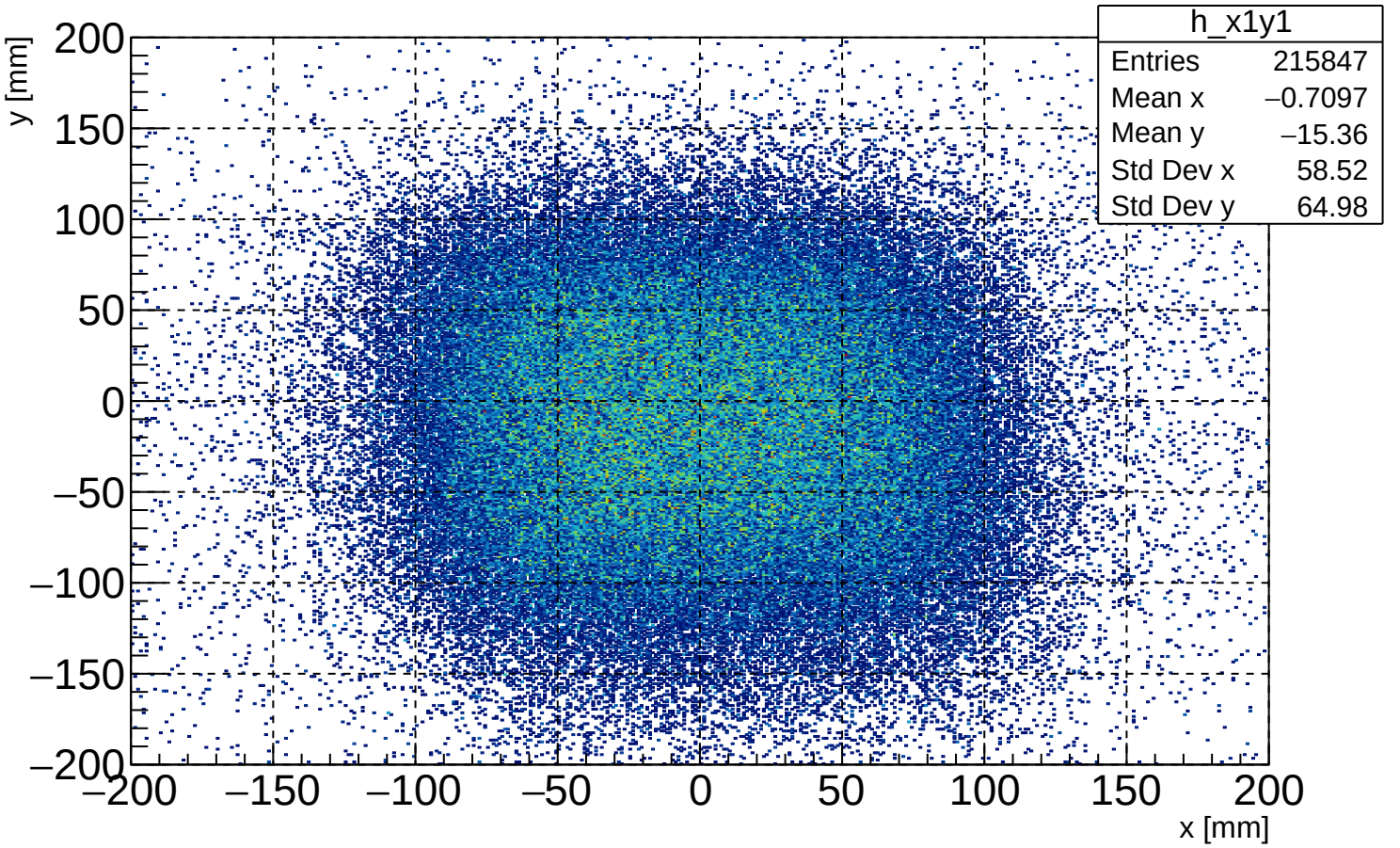
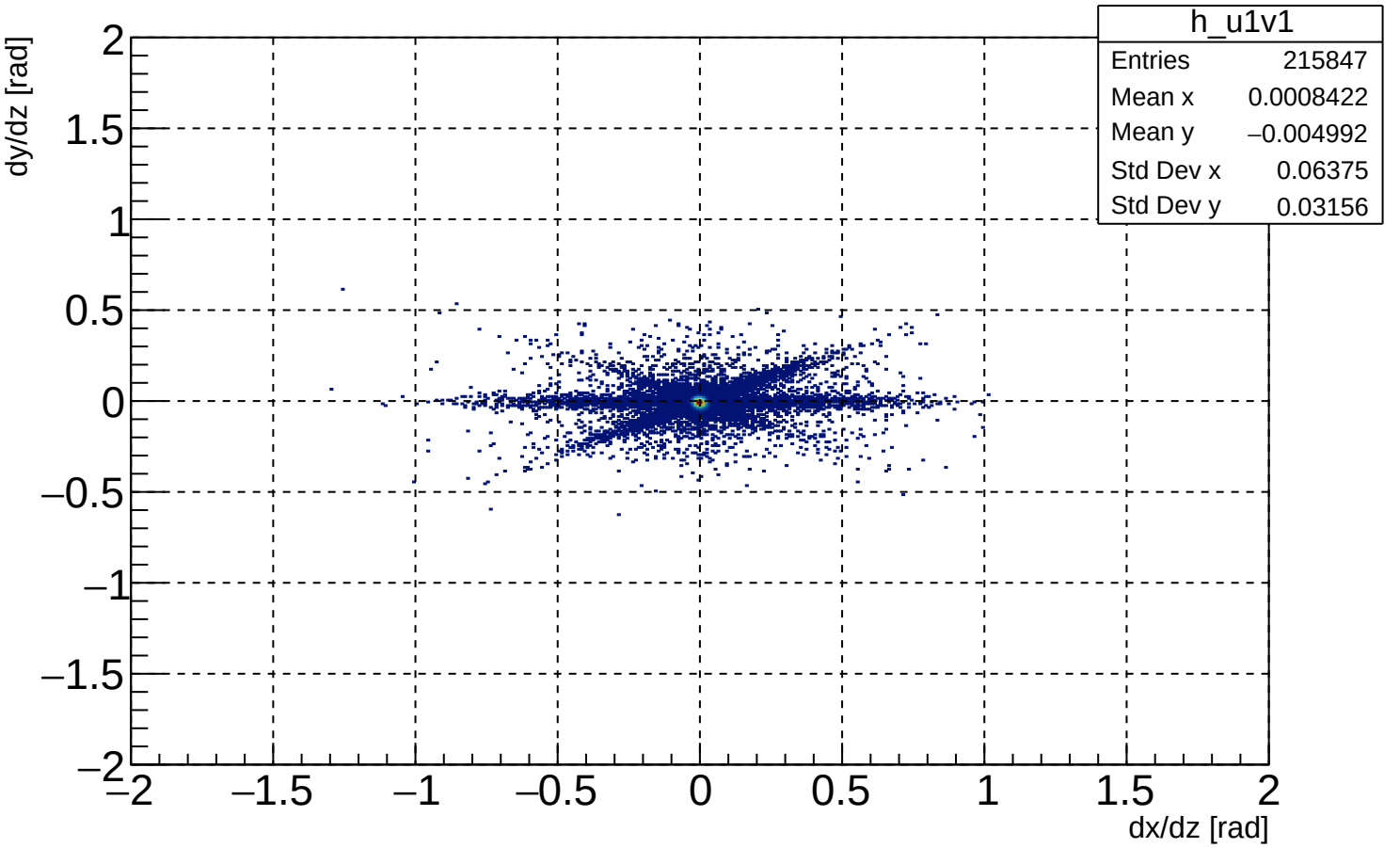
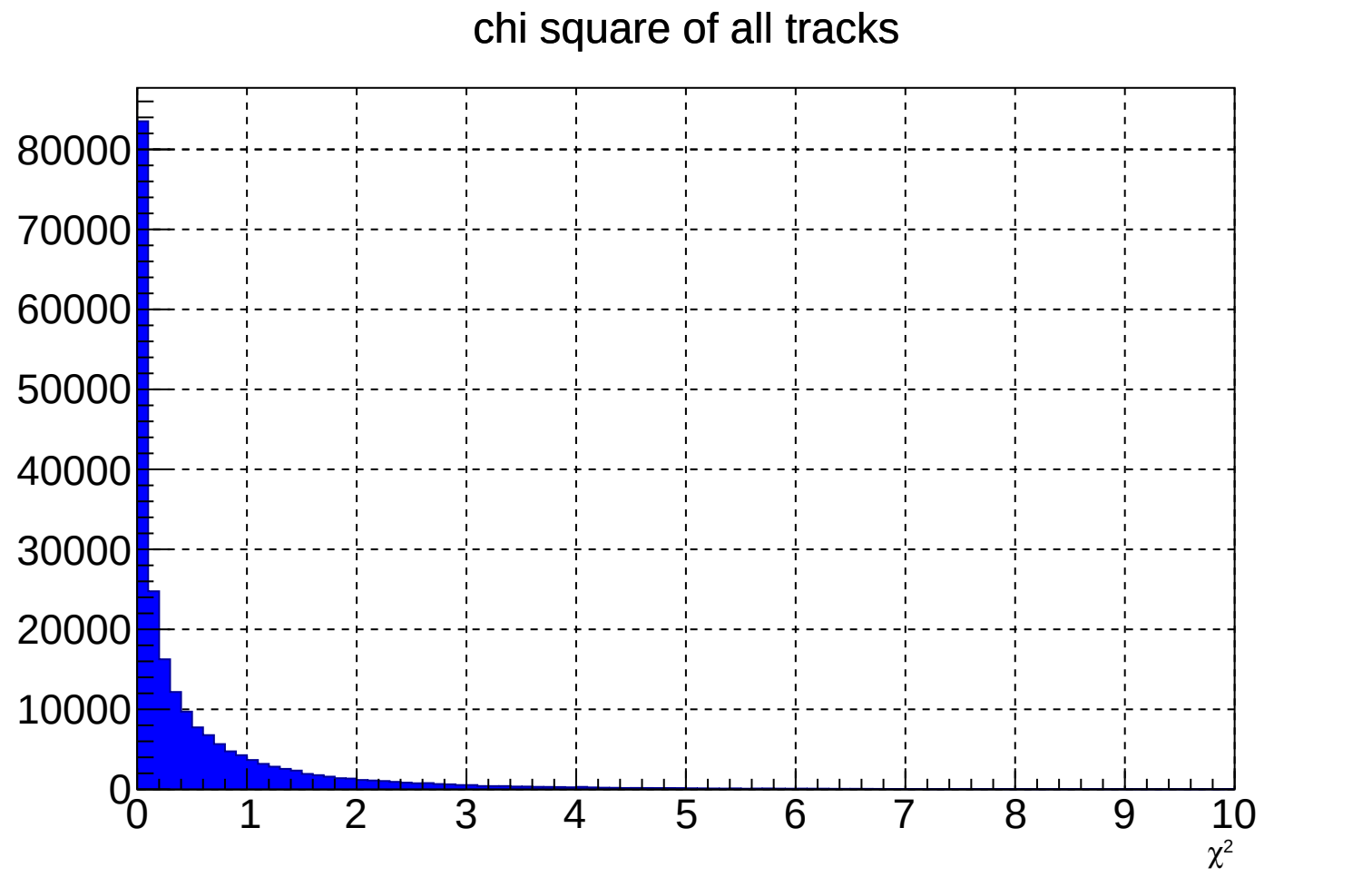
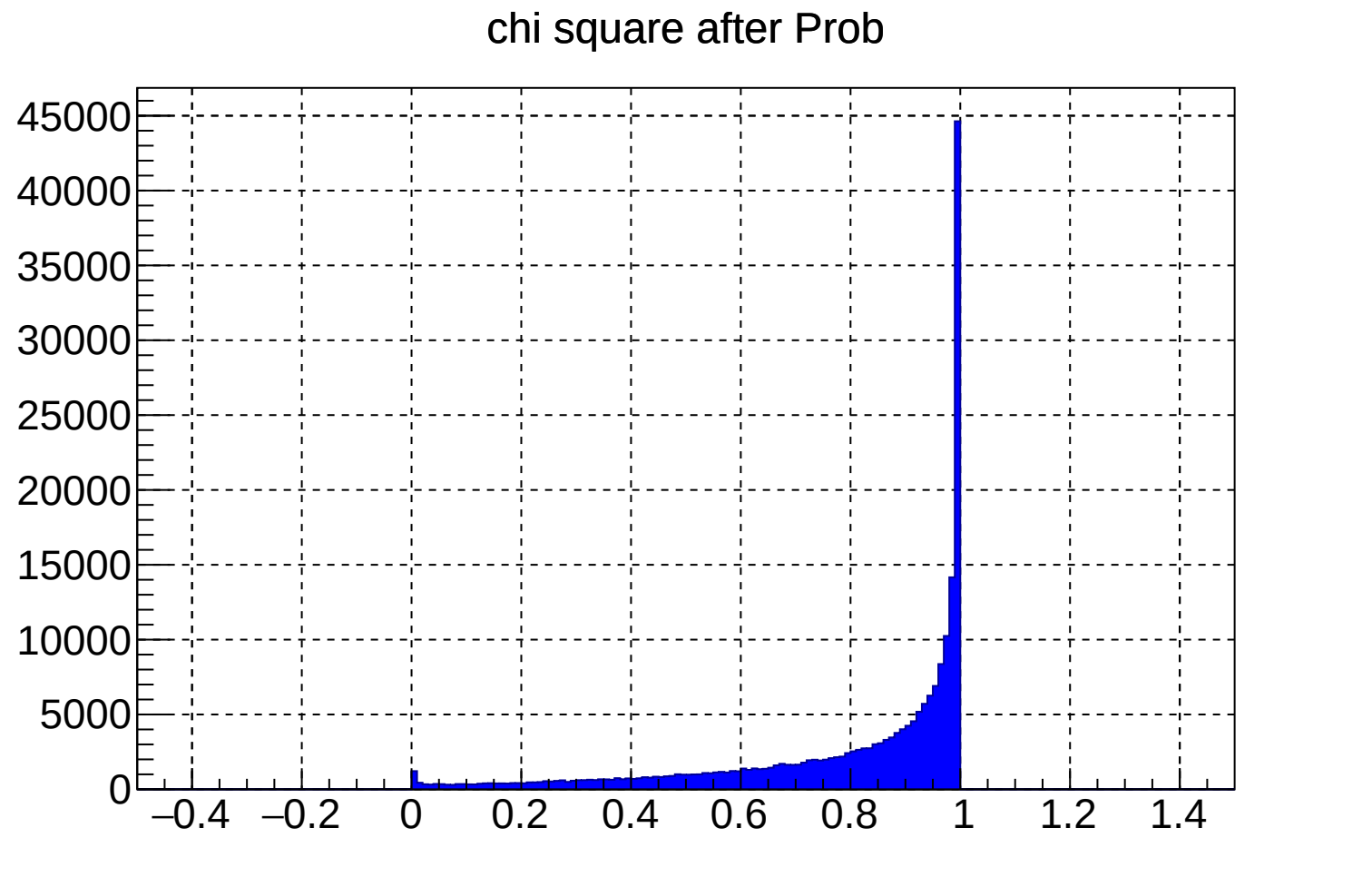

Track position at UTOF
h_x0y0
Entries 215847
Mean x −1.855
Mean y −5.023
Std Dev x 31.22
Std Dev y 29.8
y [mm]
200
150
100
50
0
−50
−100
−150
−200
−200
−150
−100
−50
0
50
100
150
200
x [mm]

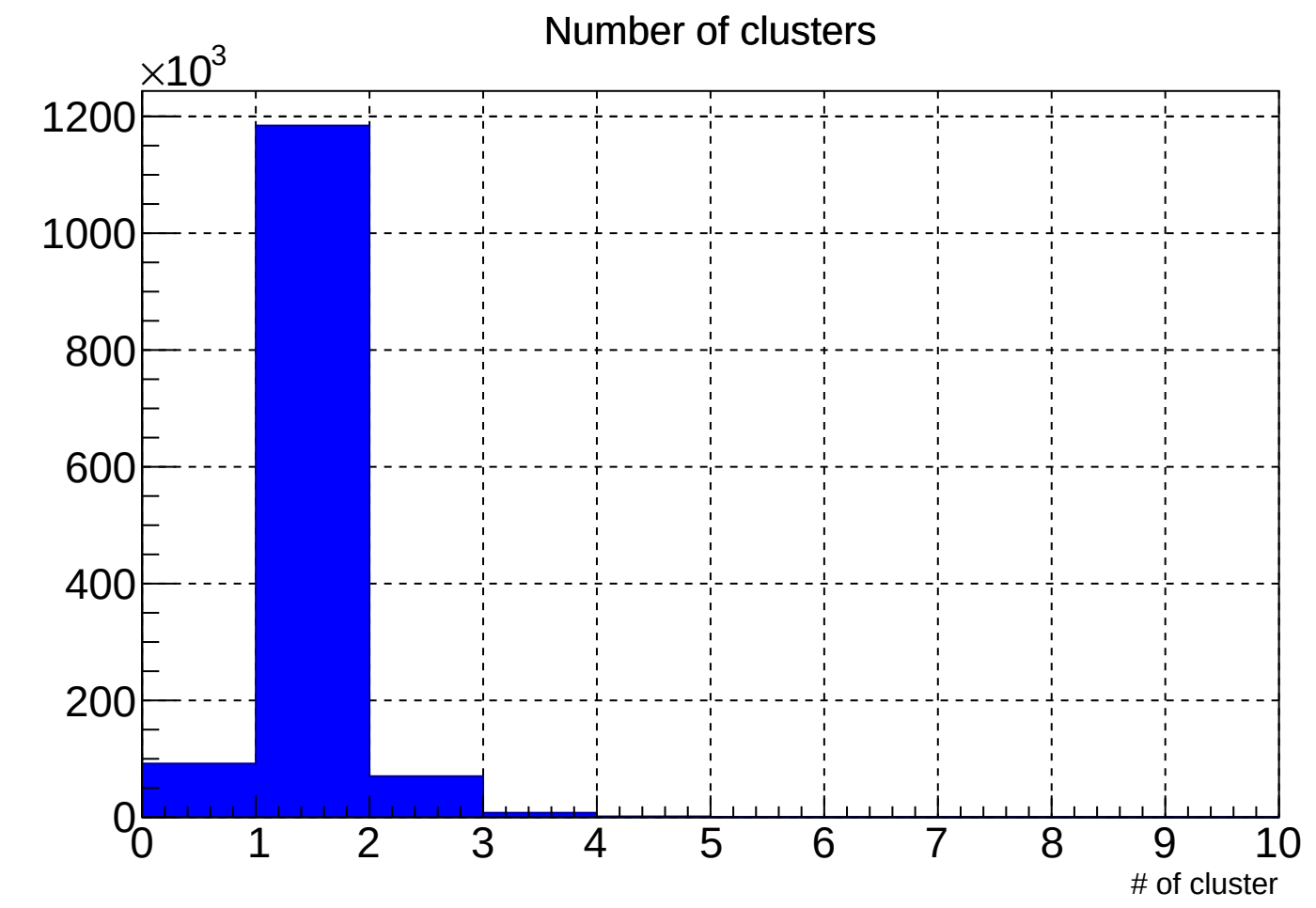

Track slope at UTOF
h_u0v0
Entries 215847
Mean x 0.0008422
Mean y –0.004992
Std Dev x 0.06375
Std Dev y 0.03156
dy/dz [rad]
dx/dz [rad]
2
1.5
1
0.5
0
–0.5
–1
–1.5
–2
–2
–1.5
–1
–0.5
0
0.5
1
1.5
2

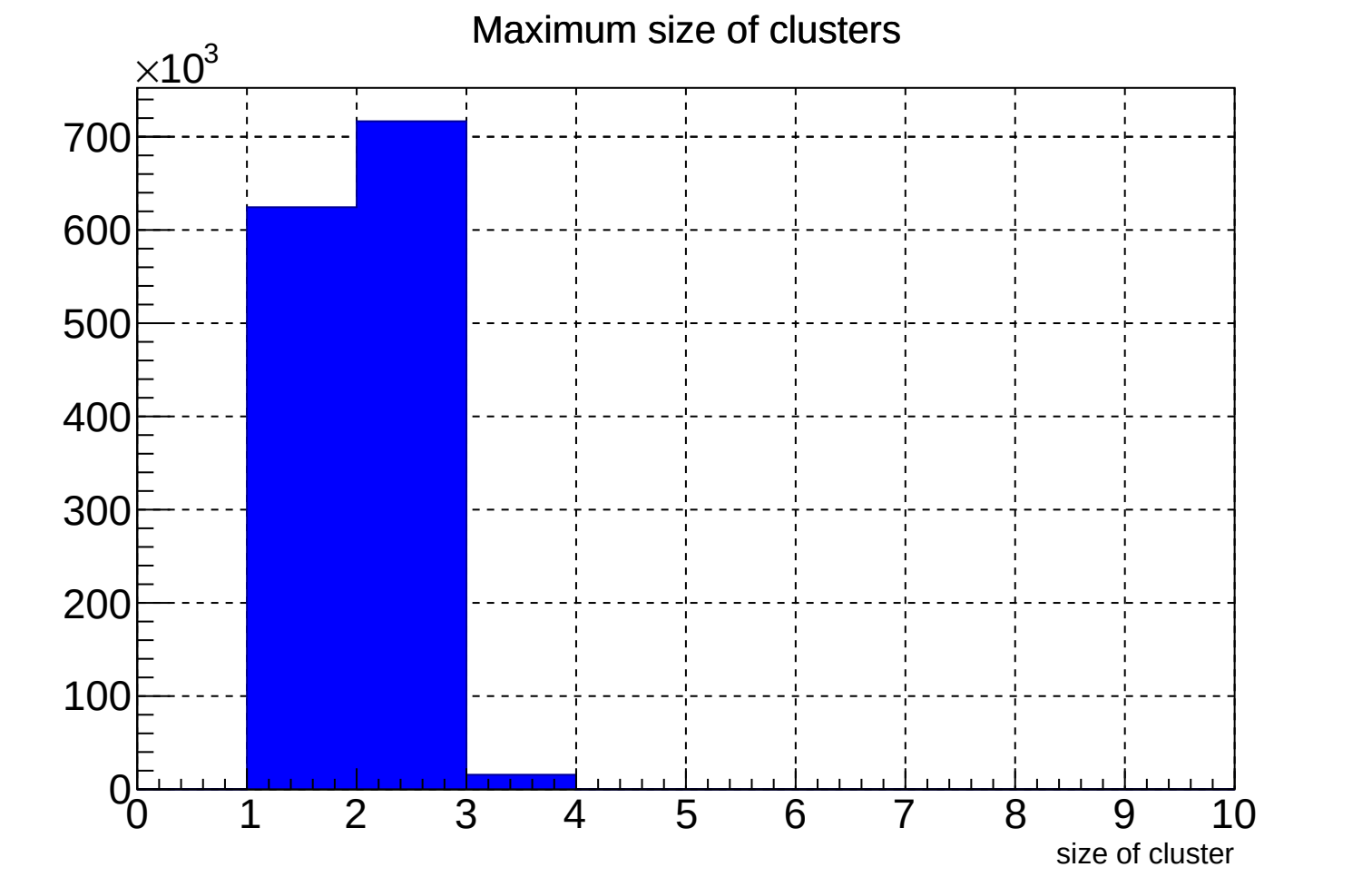

Track position at LTOF
h_x1y1
Entries 215847
Mean x −0.7097
Mean y −15.36
Std Dev x 58.52
Std Dev y 64.98
y [mm]
200
150
100
50
0
−50
−100
−150
−200
−200
−150
−100
−50
0
50
100
150
200
x [mm]

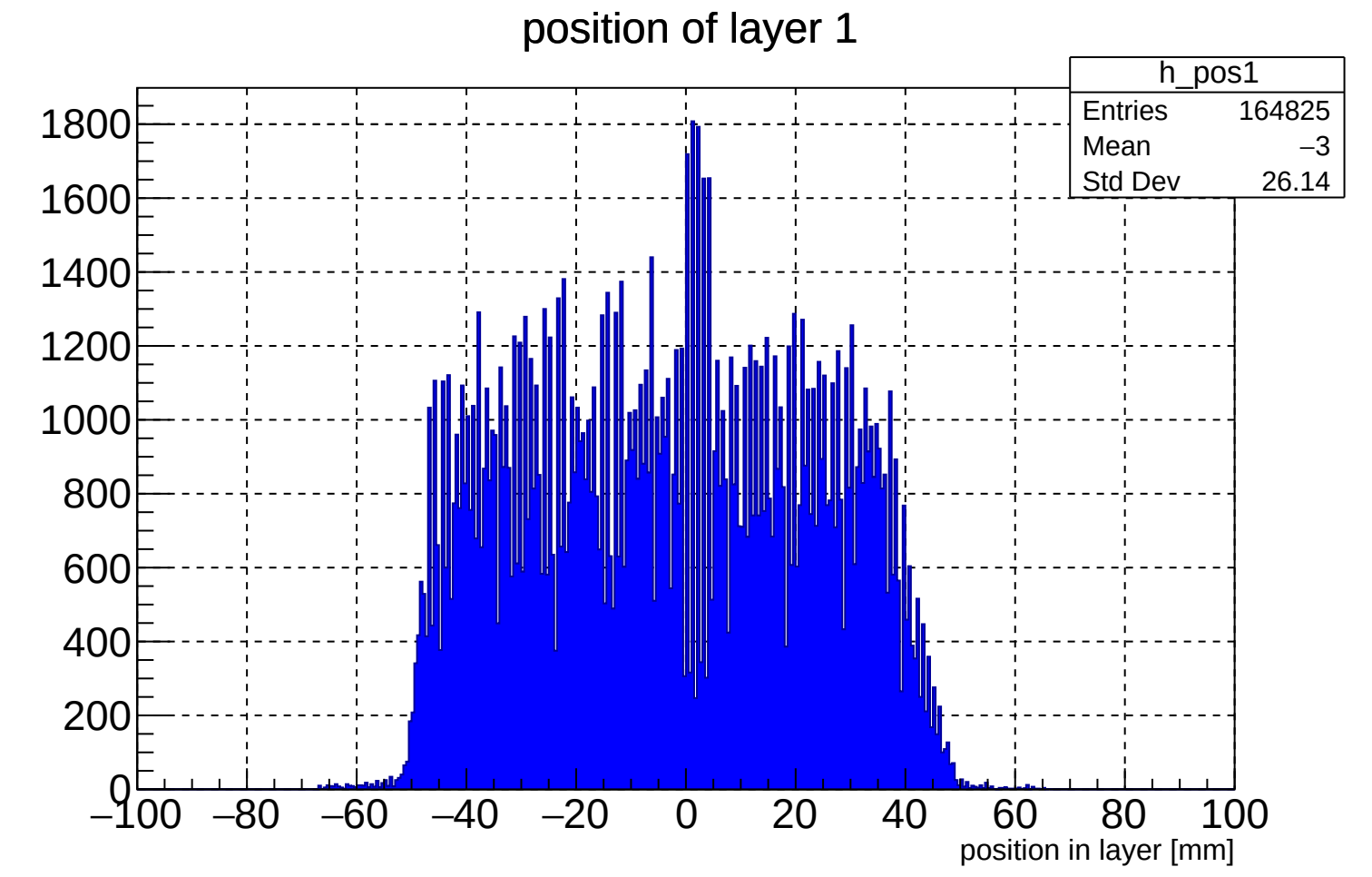

Track slope at LTOF
h_u1v1
Entries 215847
Mean x 0.0008422
Mean y –0.004992
Std Dev x 0.06375
Std Dev y 0.03156
dy/dz [rad]
dx/dz [rad]
2
1.5
1
0.5
0
–0.5
–1
–1.5
–2
–2
–1.5
–1
–0.5
0
0.5
1
1.5
2

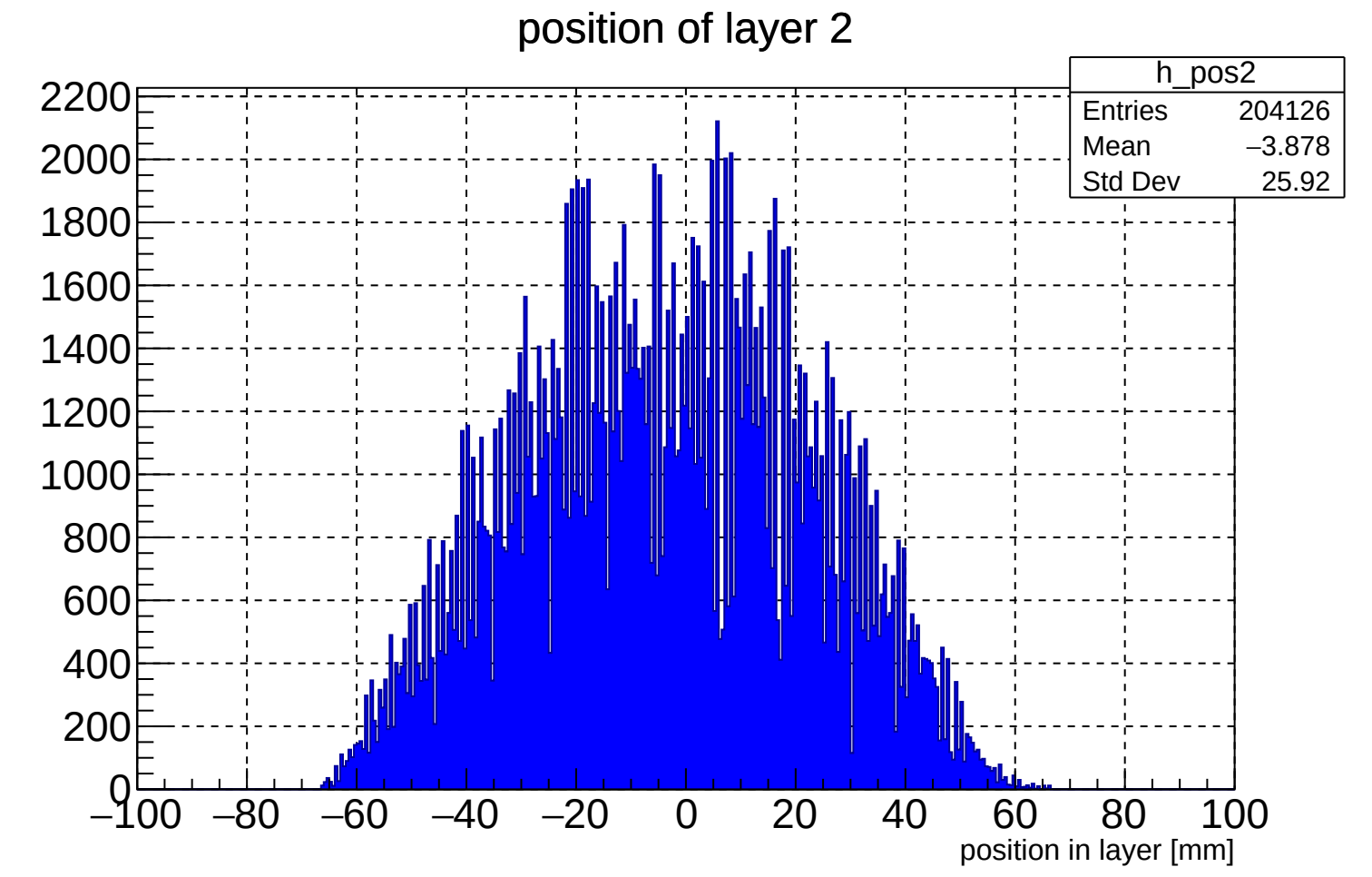

chi square of all tracks
80000
70000
60000
50000
40000
30000
20000
10000
0
0
1
2
3
4
5
6
7
8
9
10
χ²

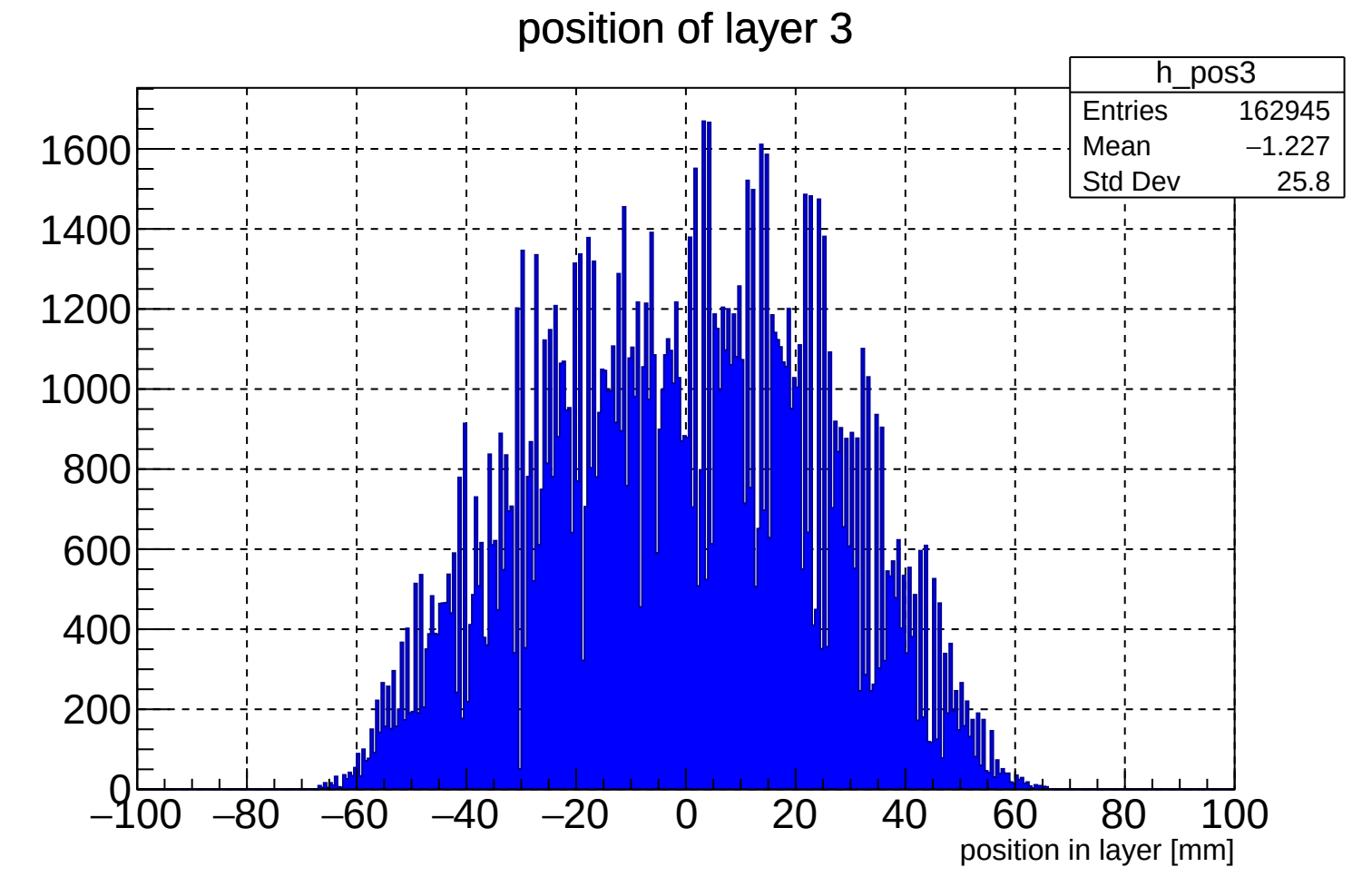

chi square after Prob
45000
40000
35000
30000
25000
20000
15000
10000
5000
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4

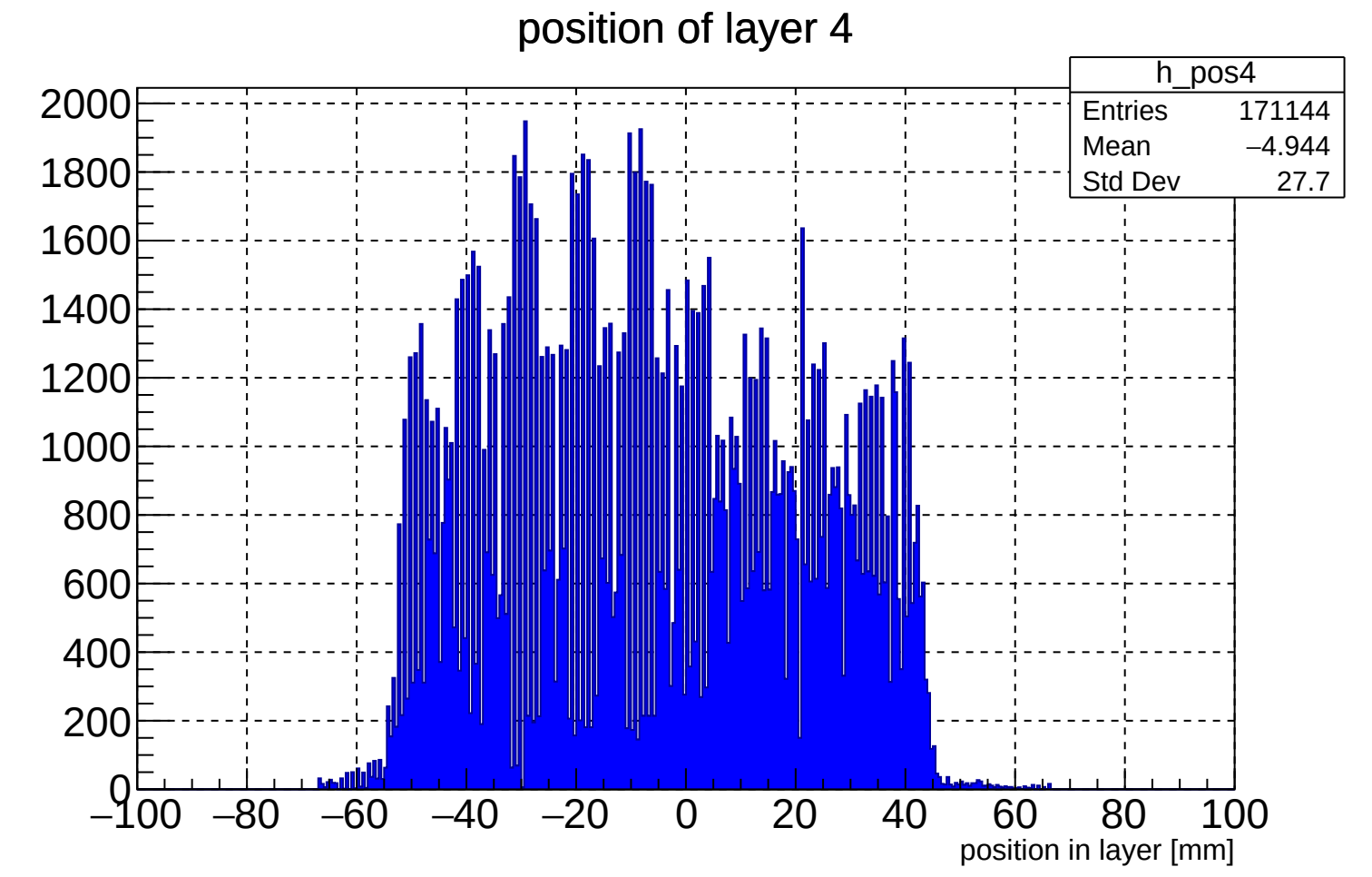

Number of clusters
×10^3
1200
1000
800
600
400
200
0
0
1
2
3
4
5
6
7
8
9
10
# of cluster

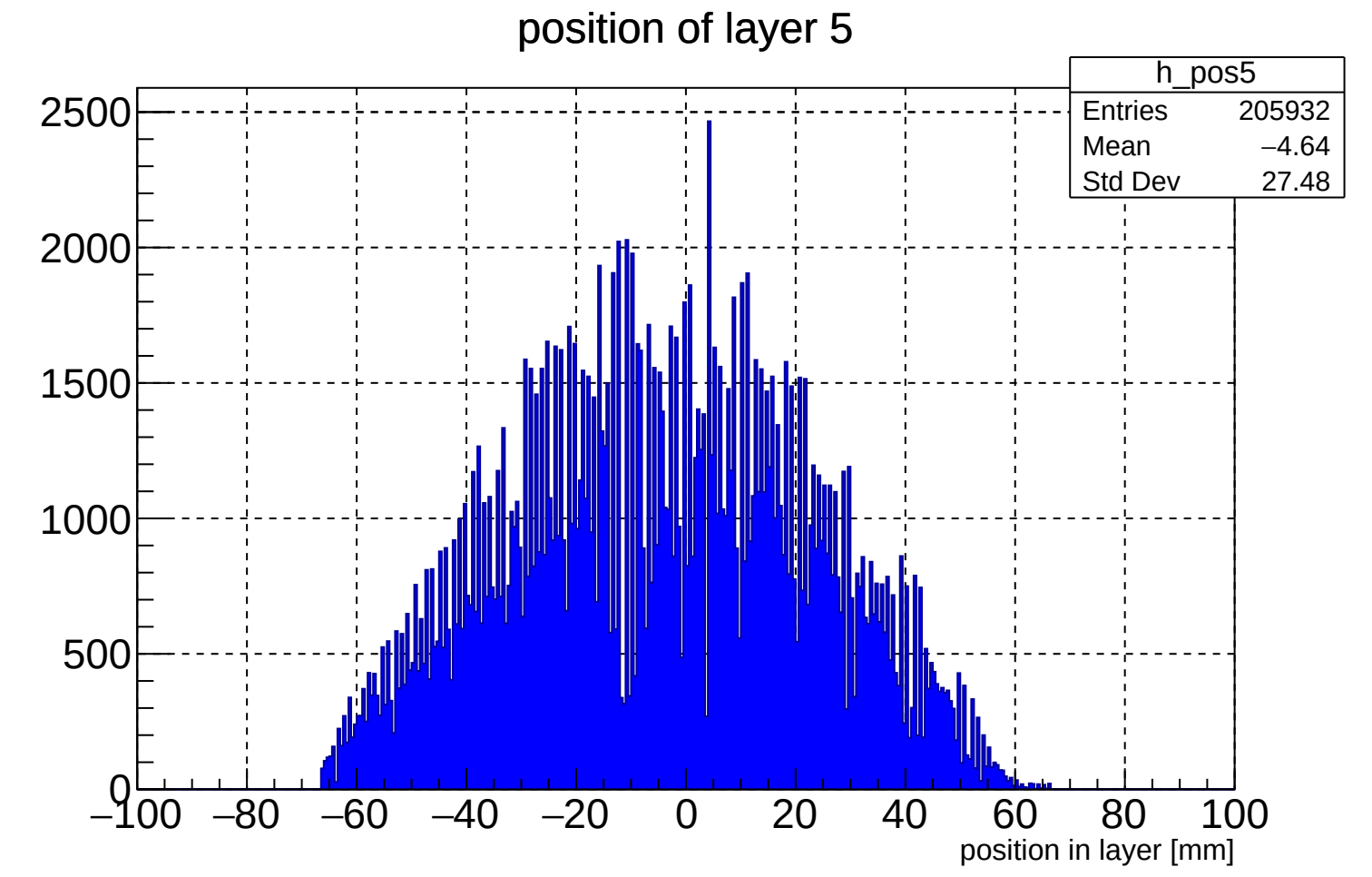

Maximum size of clusters
×10^3
700
600
500
400
300
200
100
0
0
1
2
3
4
5
6
7
8
9
10
size of cluster

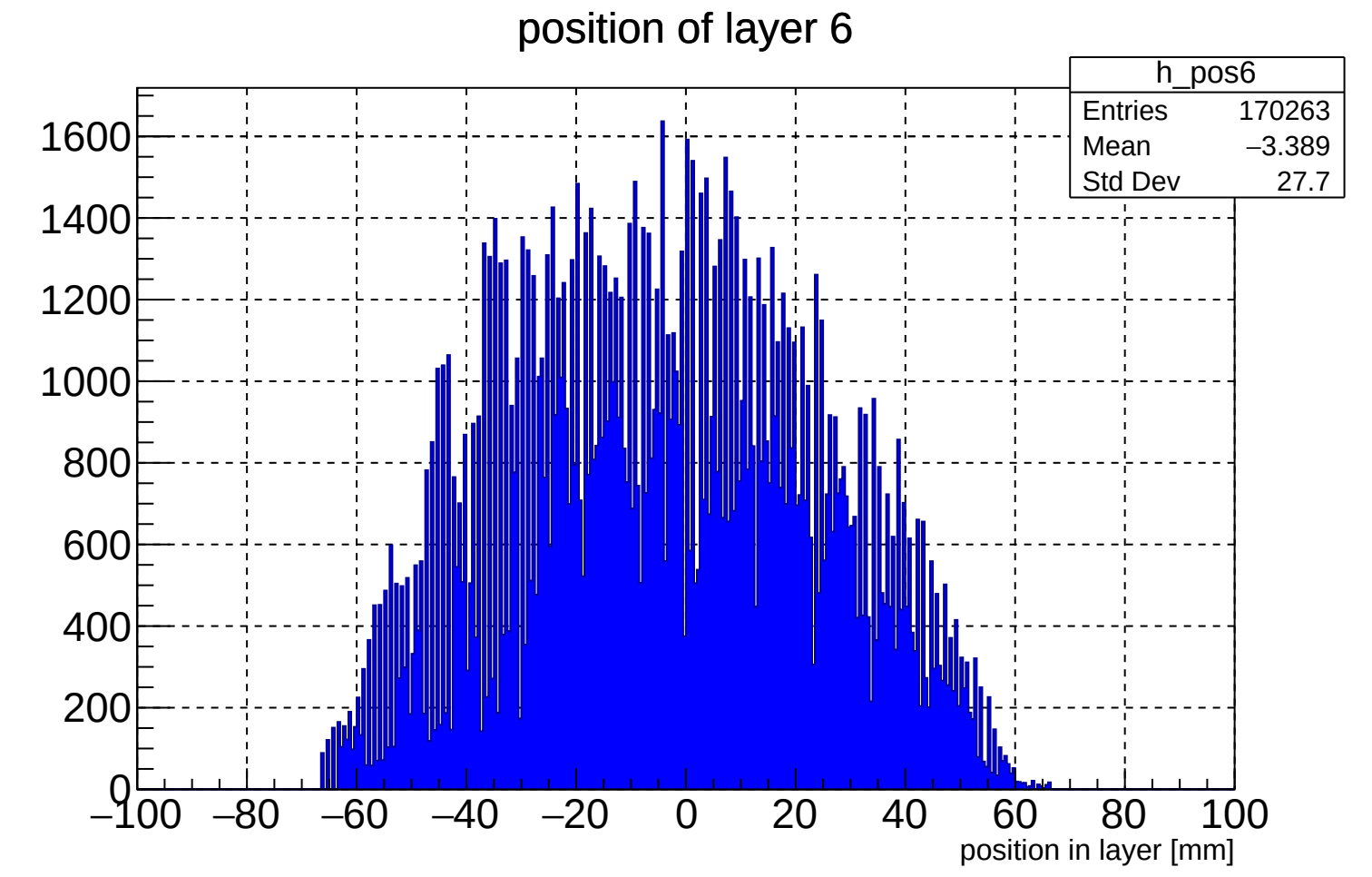

position of layer 1
h_pos1
Entries 164825
Mean −3
Std Dev 26.14
1800
1600
1400
1200
1000
800
600
400
200
0
−100 −80 −60 −40 −20 0 20 40 60 80 100
position in layer [mm]

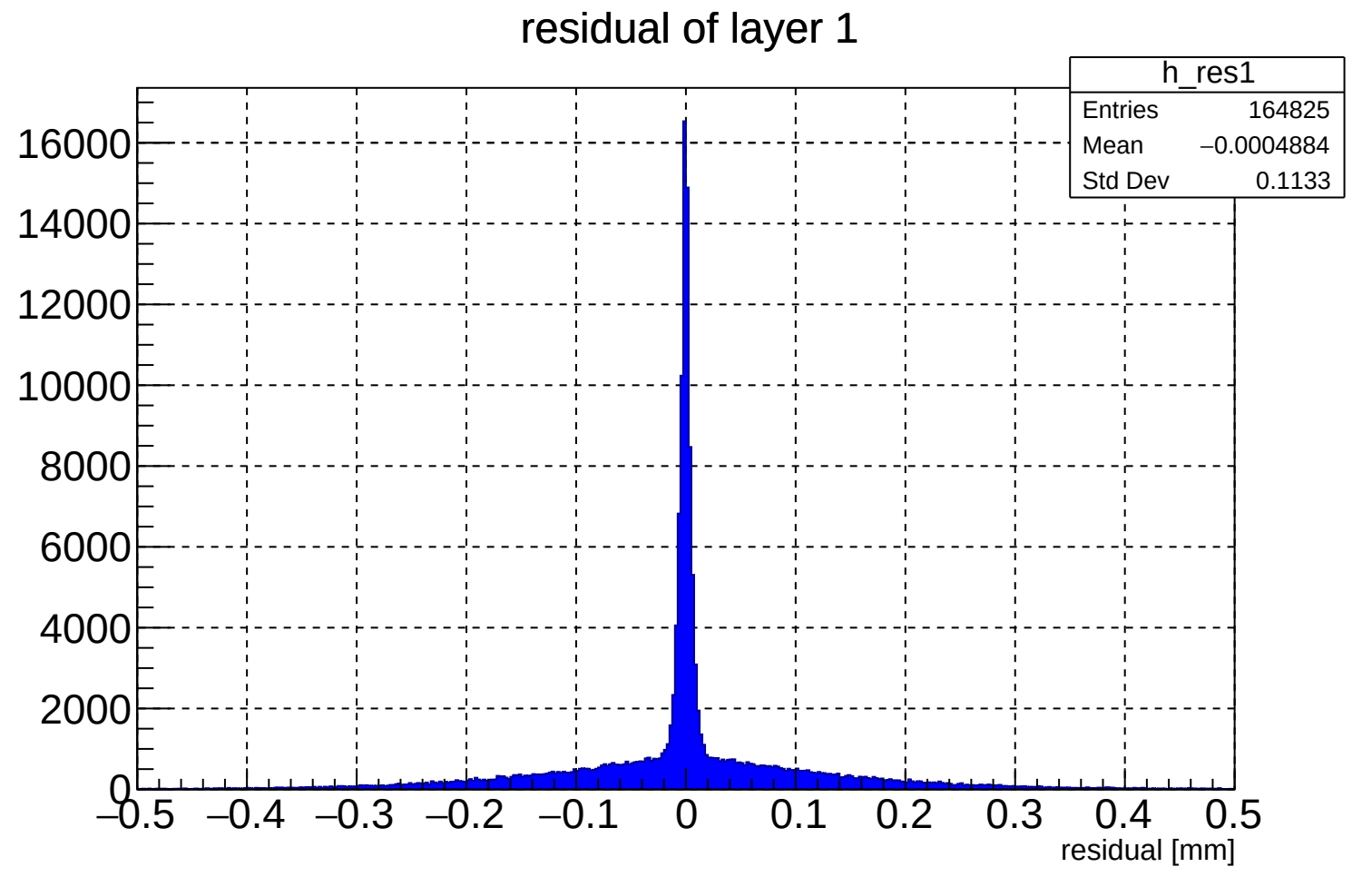

position of layer 2
h_pos2
Entries 204126
Mean −3.878
Std Dev 25.92
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
−100 −80 −60 −40 −20 0 20 40 60 80 100
position in layer [mm]

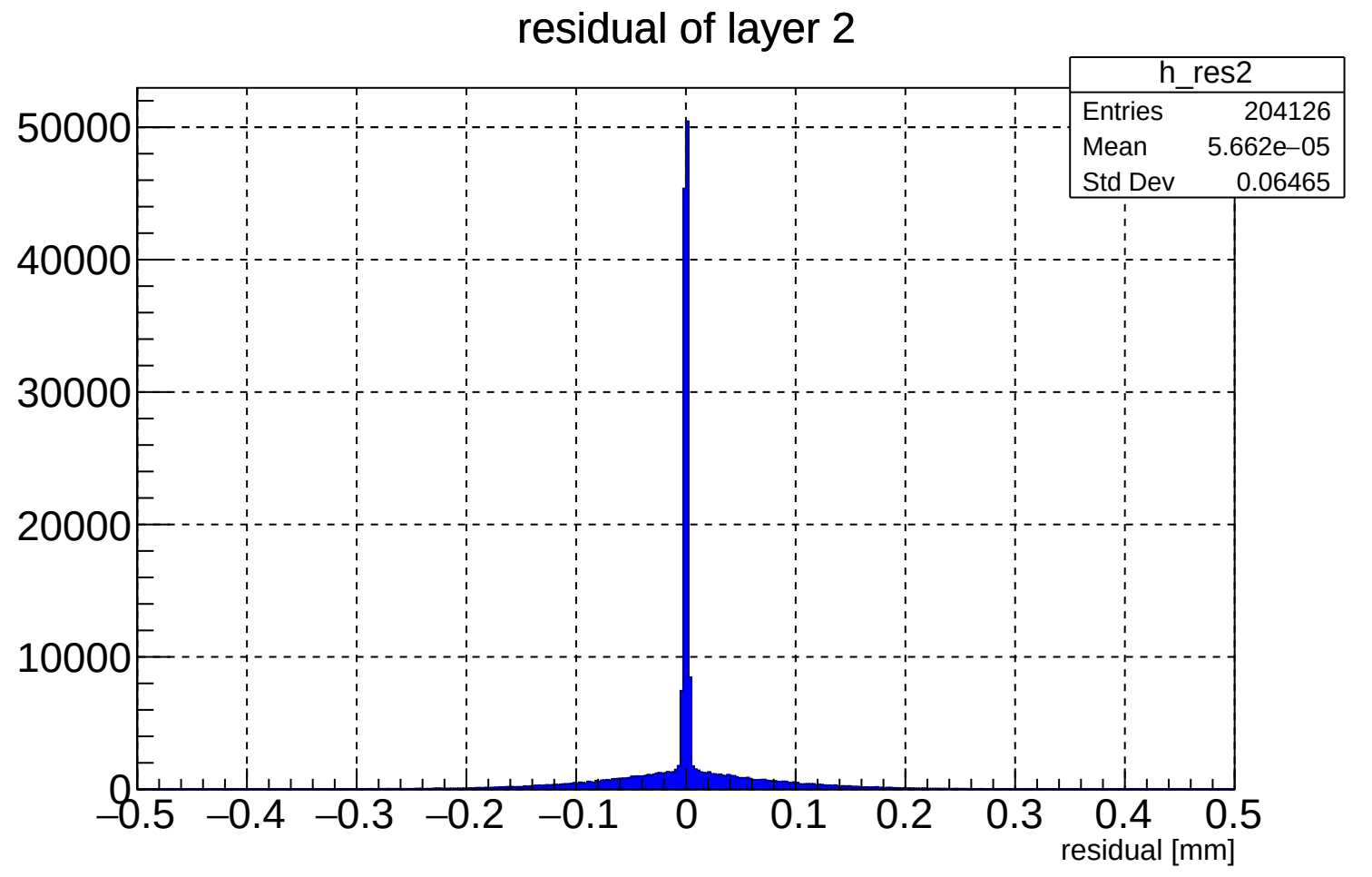

position of layer 3
h_pos3
Entries 162945
Mean −1.227
Std Dev 25.8
1600
1400
1200
1000
800
600
400
200
0
−100
−80
−60
−40
−20
0
20
40
60
80
100
position in layer [mm]

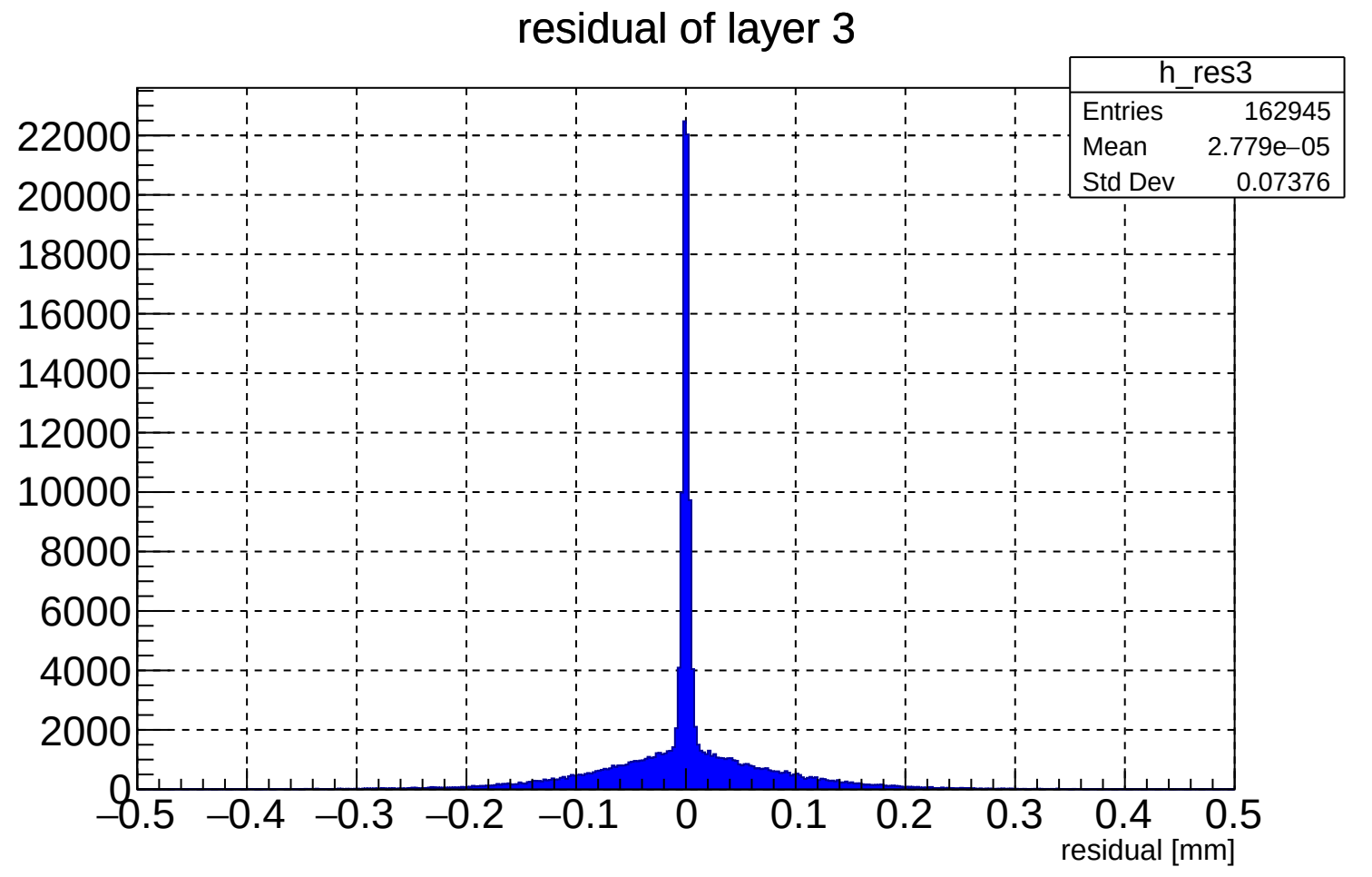

position of layer 4
h_pos4
Entries 171144
Mean –4.944
Std Dev 27.7
2000
1800
1600
1400
1200
1000
800
600
400
200
0
–100
–80
–60
–40
–20
0
20
40
60
80
100
position in layer [mm]

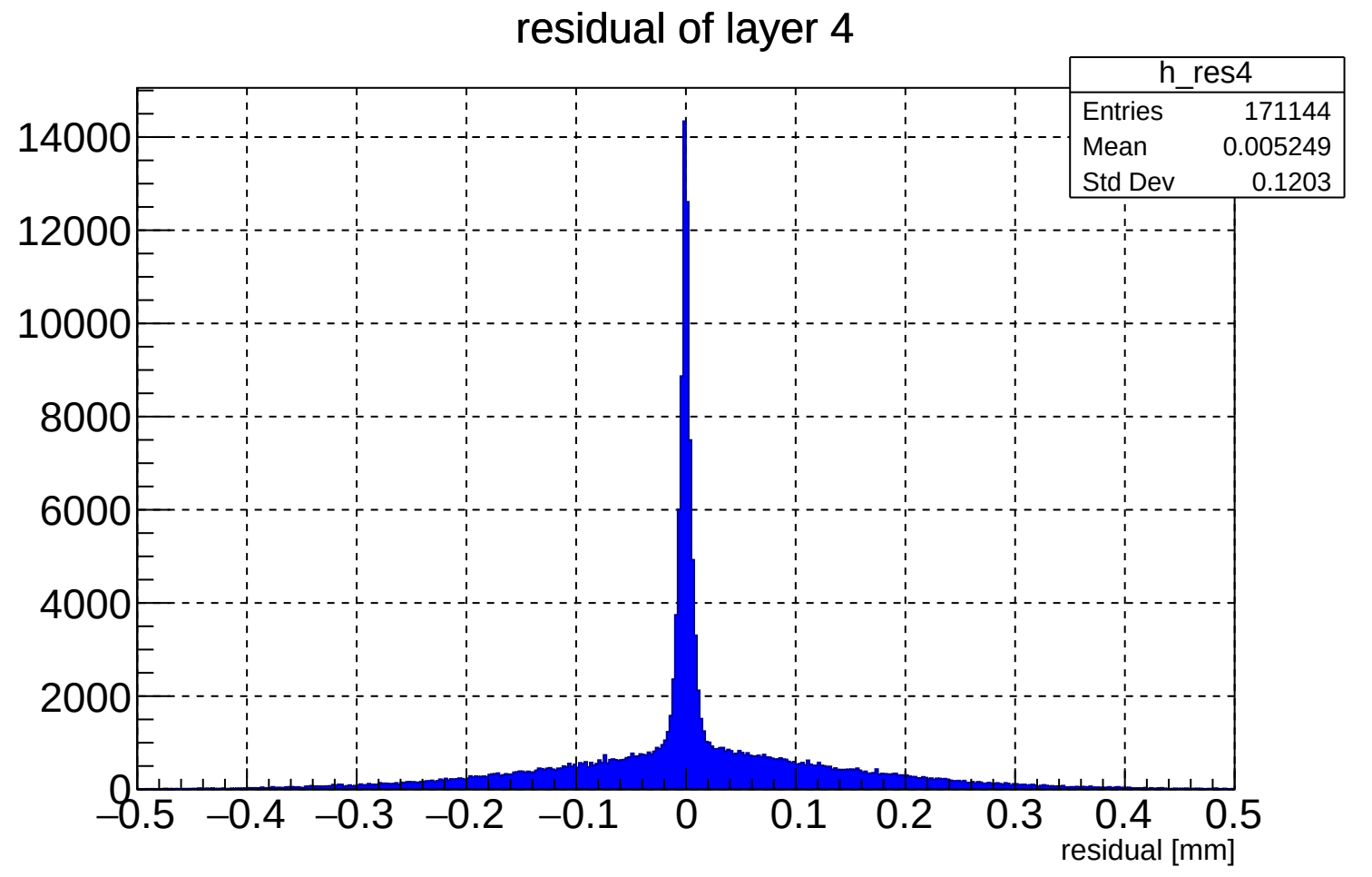

position of layer 5
h_pos5
Entries 205932
Mean –4.64
Std Dev 27.48
2500
2000
1500
1000
500
0
–100
–80
–60
–40
–20
0
20
40
60
80
100
position in layer [mm]

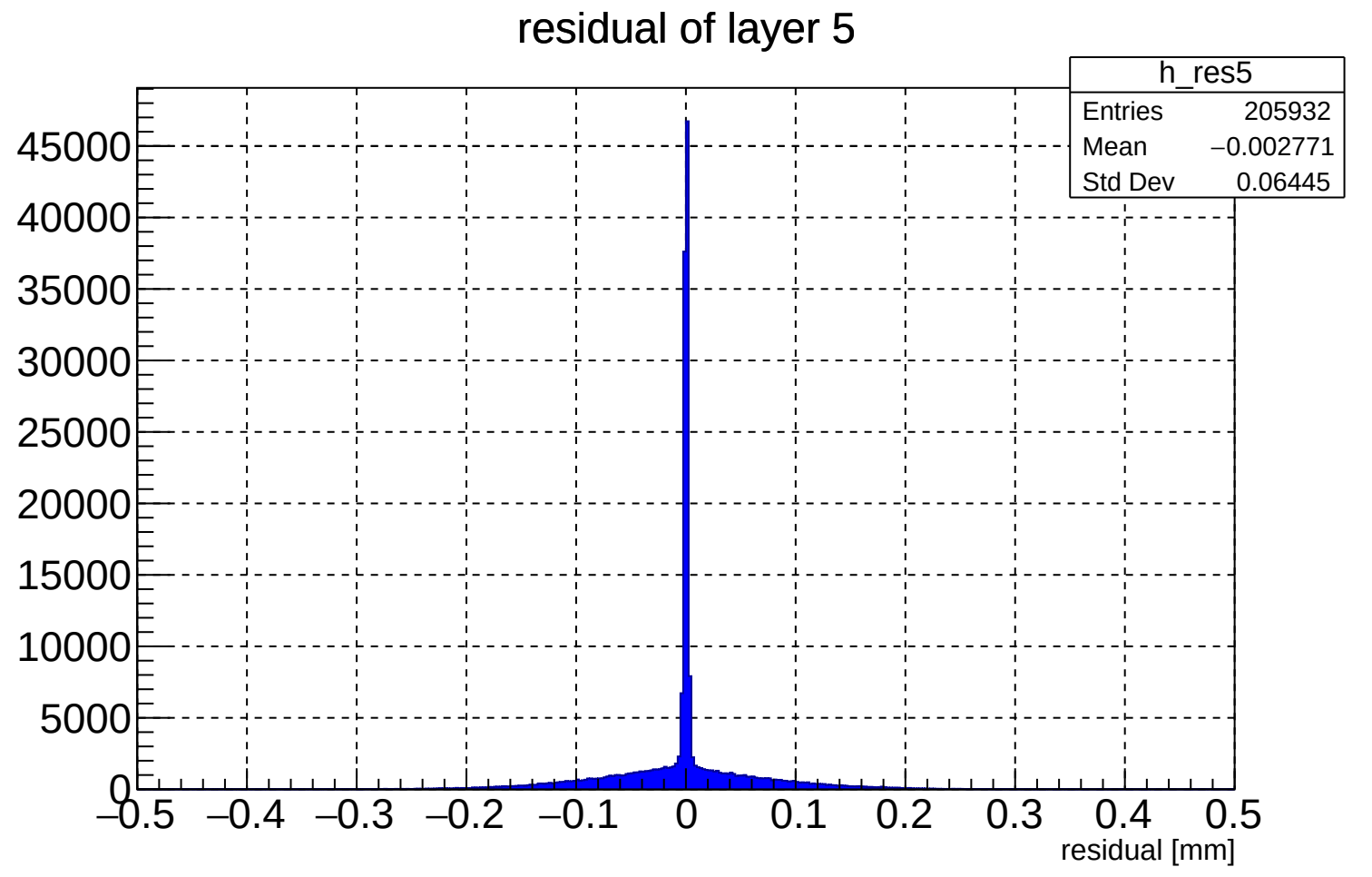

position of layer 6
h_pos6
Entries 170263
Mean −3.389
Std Dev 27.7
1600
1400
1200
1000
800
600
400
200
0
−100
−80
−60
−40
−20
0
20
40
60
80
100
position in layer [mm]

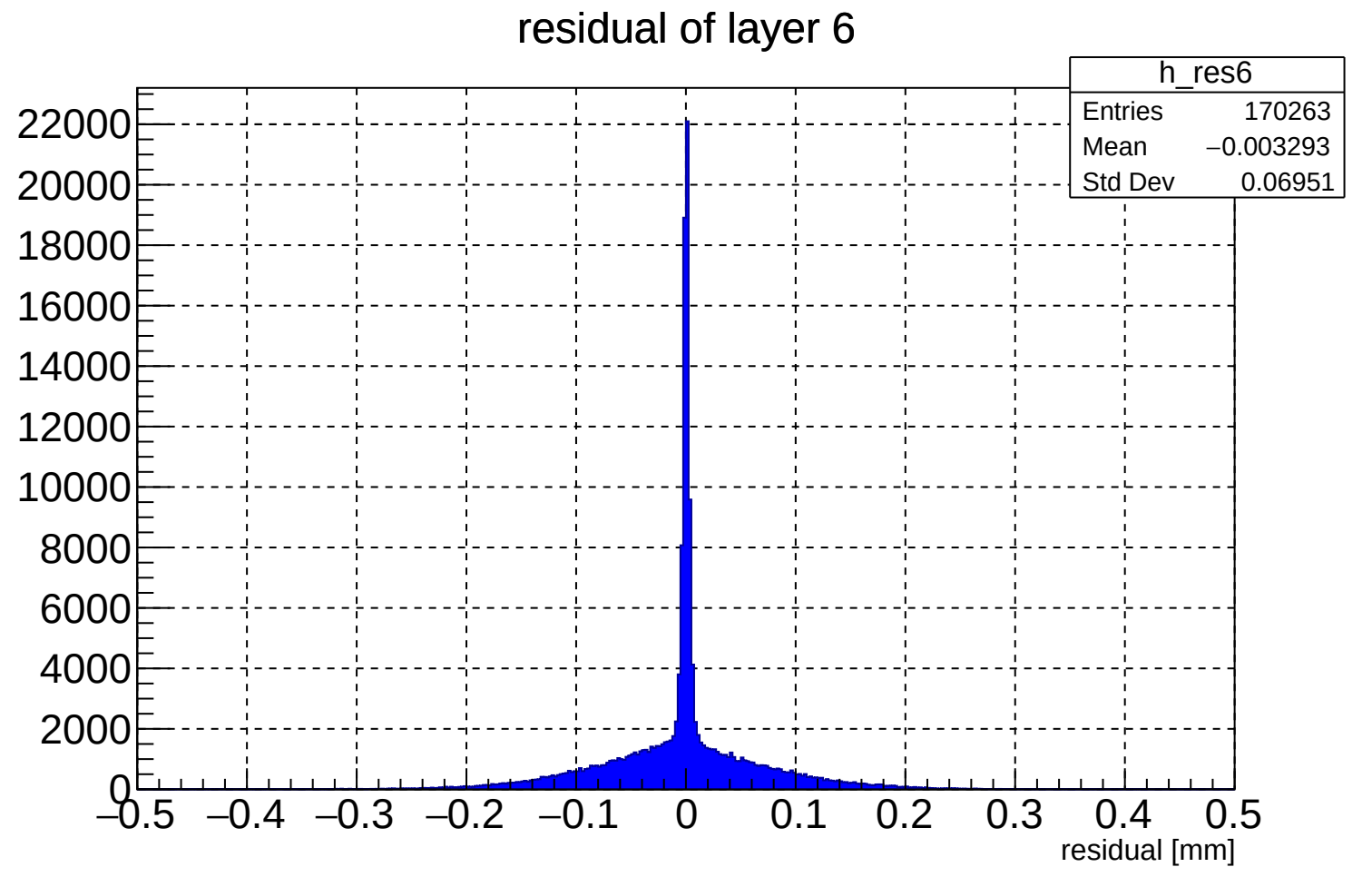

residual of layer 1
h_res1
Entries 164825
Mean −0.0004884
Std Dev 0.1133
16000
14000
12000
10000
8000
6000
4000
2000
0
−0.5 −0.4 −0.3 −0.2 −0.1 0 0.1 0.2 0.3 0.4 0.5
residual [mm]

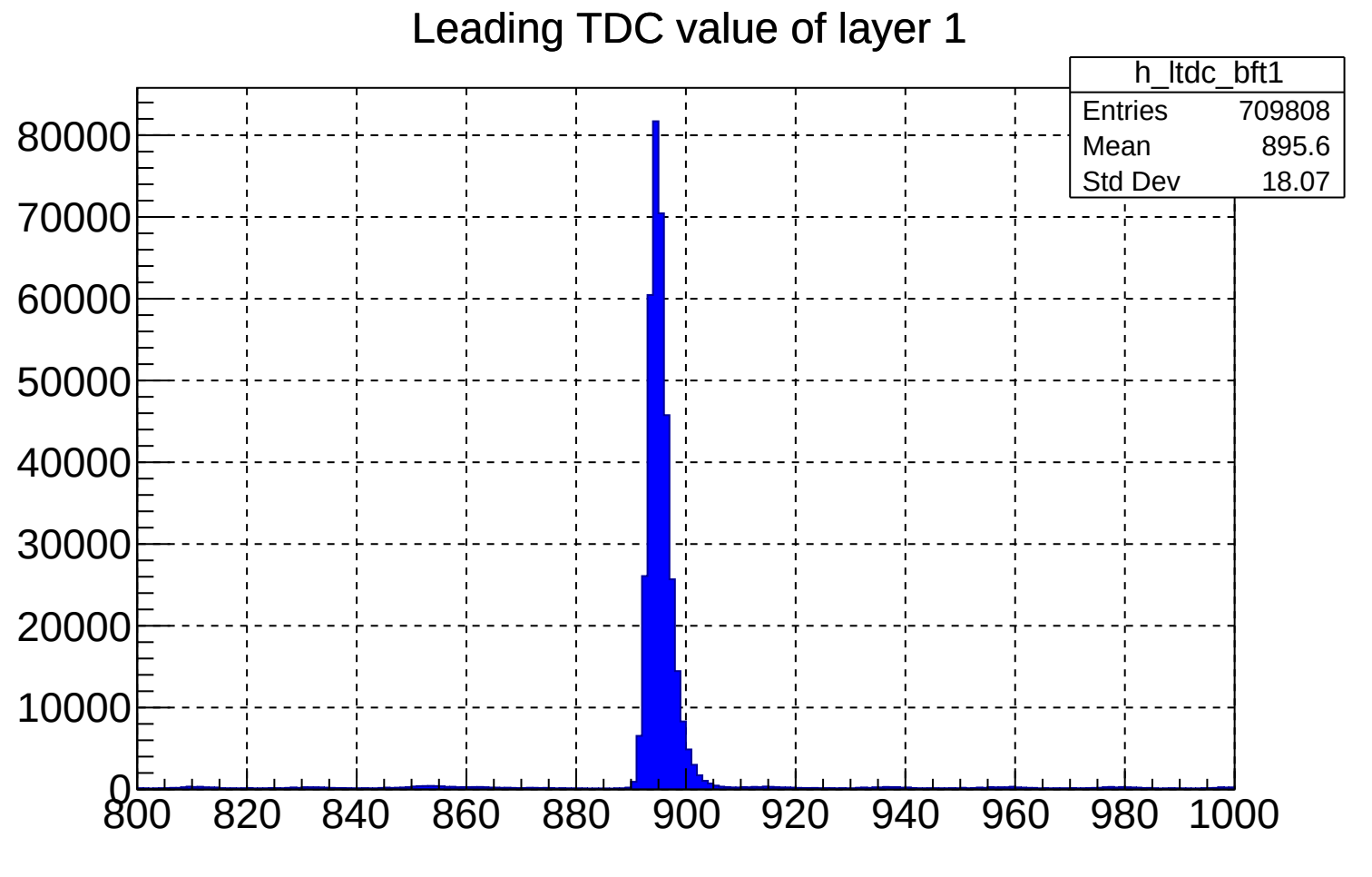

residual of layer 2
h_res2
Entries 204126
Mean 5.662e−05
Std Dev 0.06465
50000
40000
30000
20000
10000
0
−0.5 −0.4 −0.3 −0.2 −0.1 0 0.1 0.2 0.3 0.4 0.5
residual [mm]

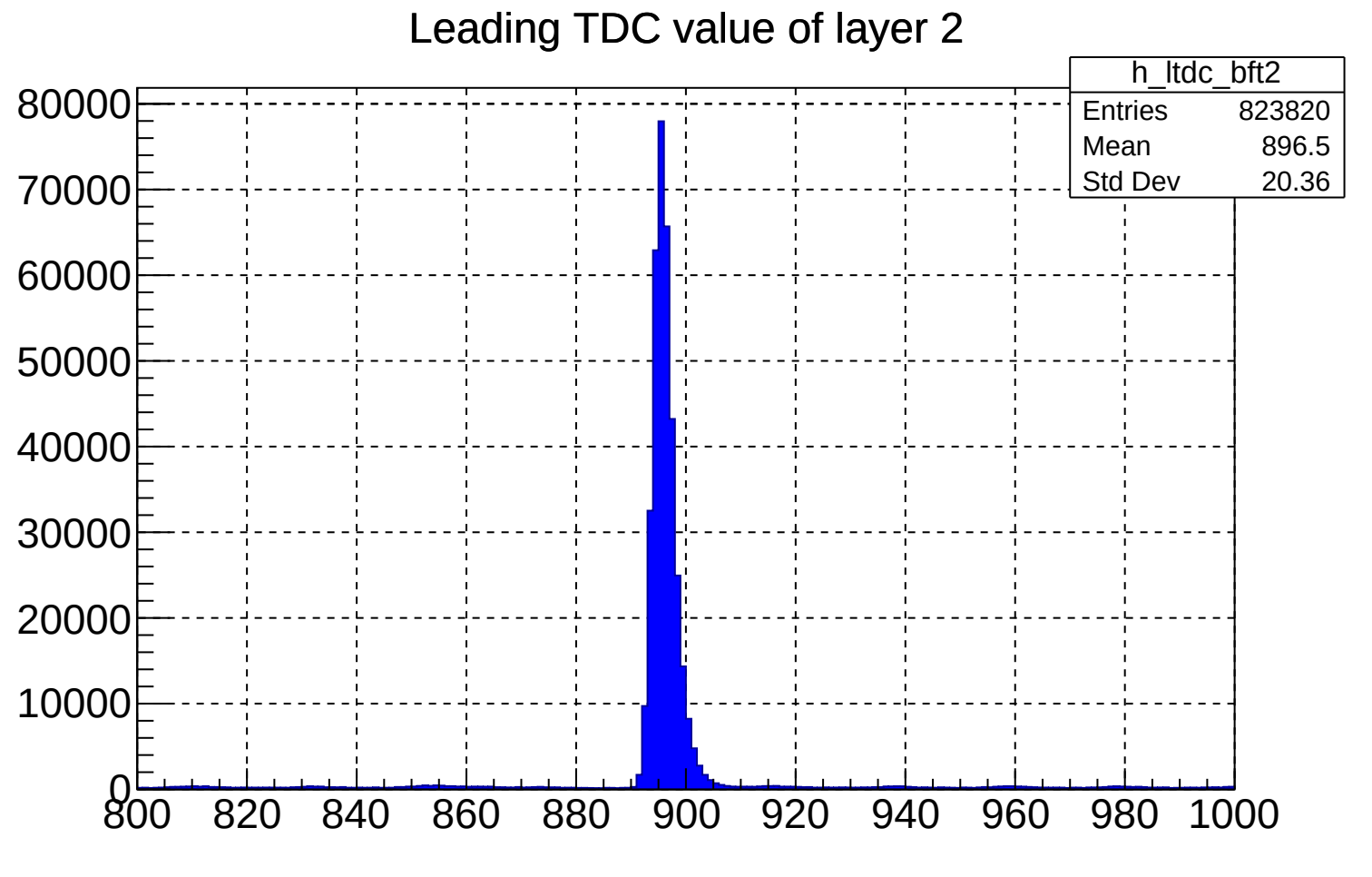

residual of layer 3
h_res3
Entries 162945
Mean 2.779e−05
Std Dev 0.07376
22000
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
−0.5 −0.4 −0.3 −0.2 −0.1 0 0.1 0.2 0.3 0.4 0.5
residual [mm]

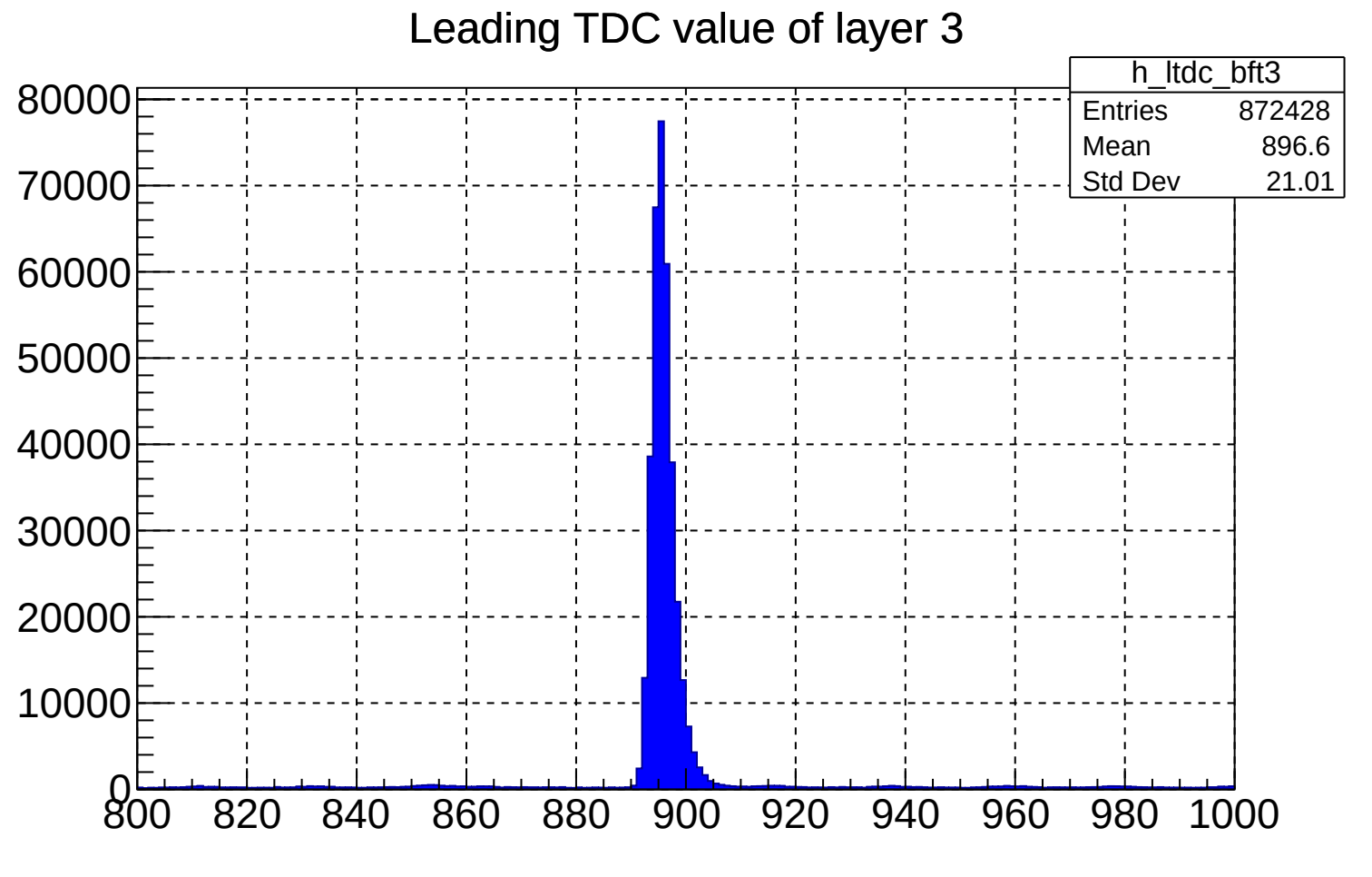

residual of layer 4
h_res4
Entries 171144
Mean 0.005249
Std Dev 0.1203
14000
12000
10000
8000
6000
4000
2000
0
–0.5
–0.4
–0.3
–0.2
–0.1
0
0.1
0.2
0.3
0.4
0.5
residual [mm]

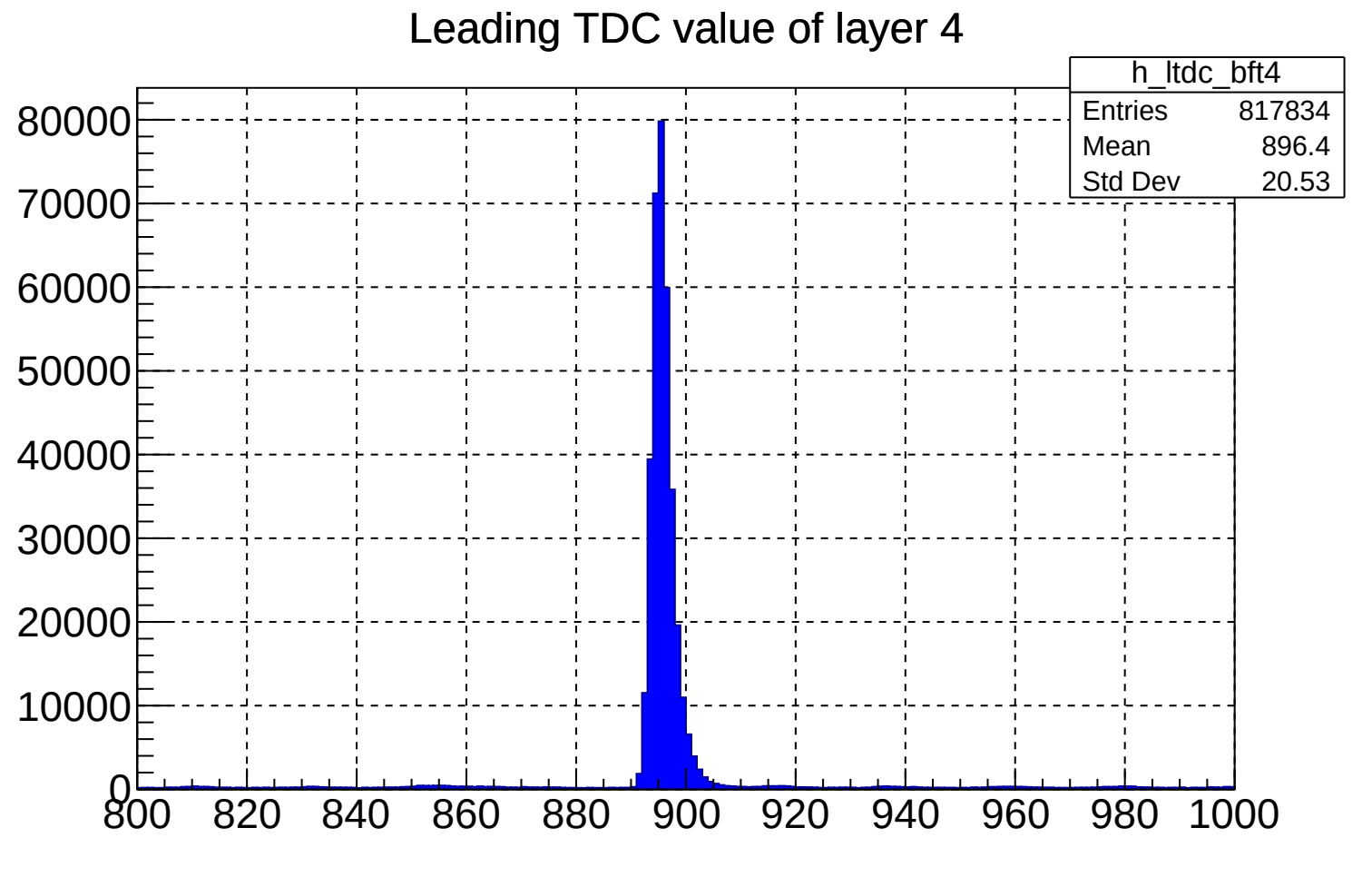

residual of layer 5
h_res5
Entries 205932
Mean −0.002771
Std Dev 0.06445
45000
40000
35000
30000
25000
20000
15000
10000
5000
0
−0.5 −0.4 −0.3 −0.2 −0.1 0 0.1 0.2 0.3 0.4 0.5
residual [mm]

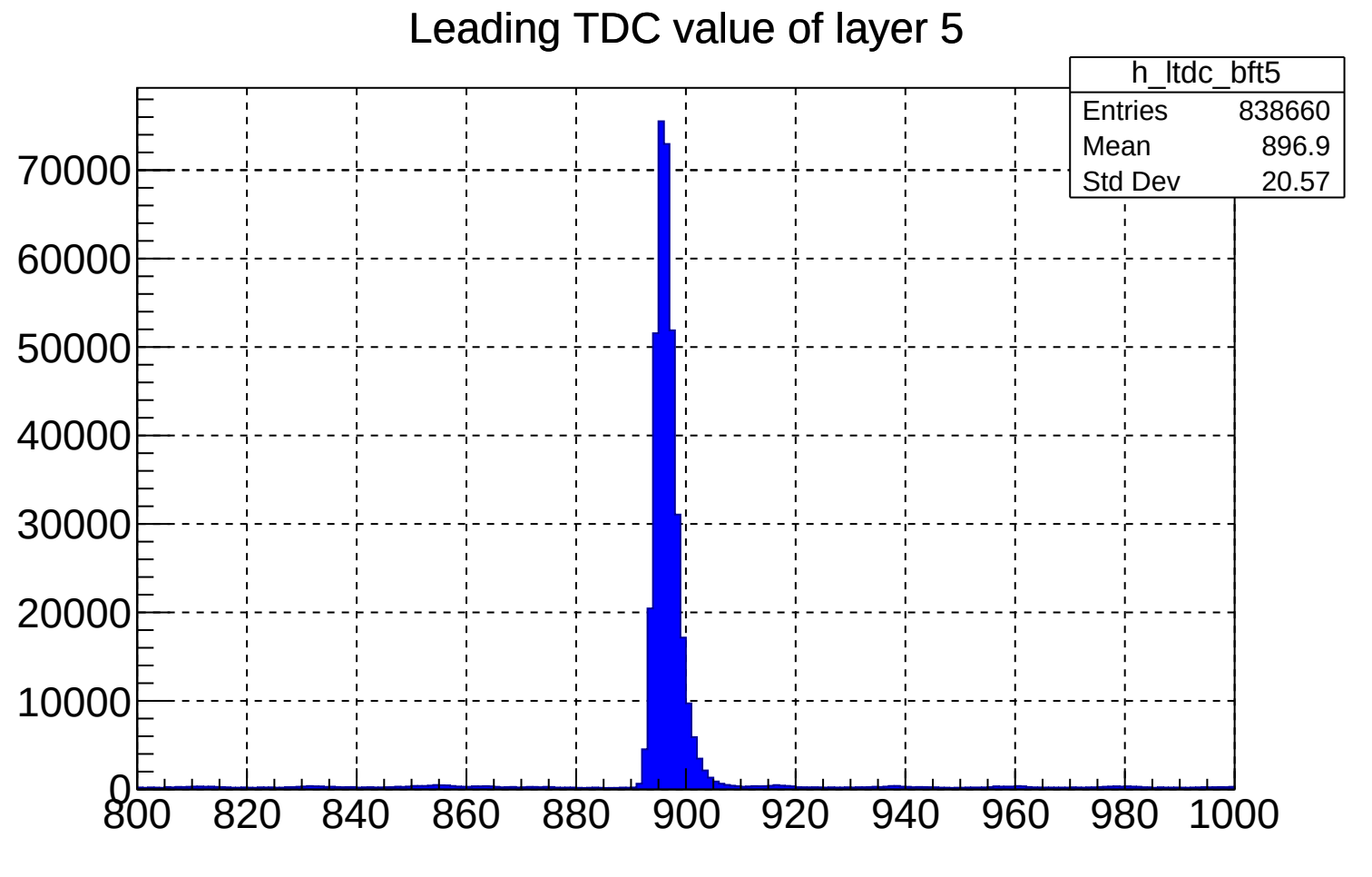

residual of layer 6
h_res6
Entries 170263
Mean −0.003293
Std Dev 0.06951
22000
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
−0.5 −0.4 −0.3 −0.2 −0.1 0 0.1 0.2 0.3 0.4 0.5
residual [mm]

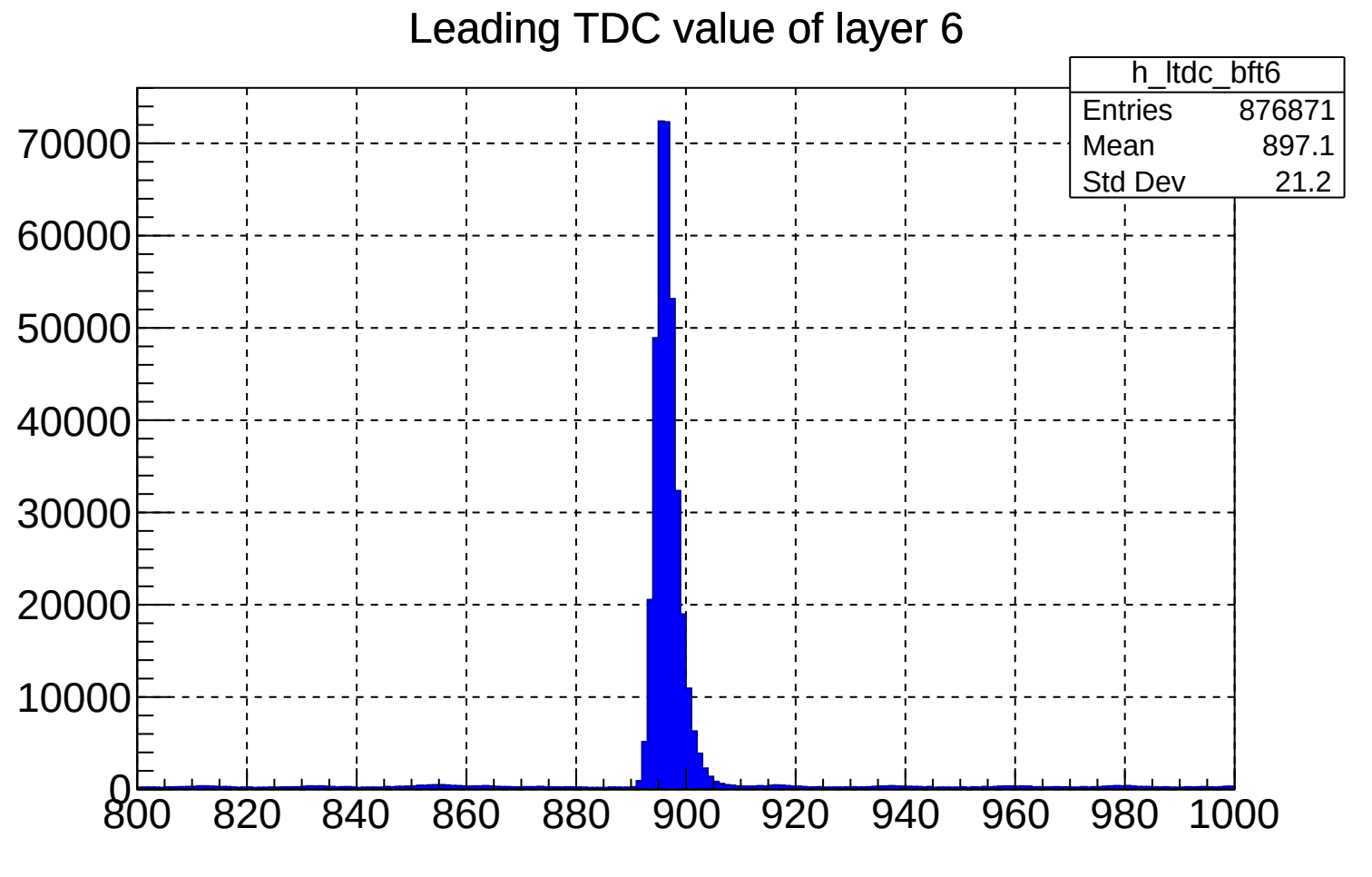

Leading TDC value of layer 1
h_ltdc_bft1
Entries 709808
Mean 895.6
Std Dev 18.07
80000
70000
60000
50000
40000
30000
20000
10000
0
800
820
840
860
880
900
920
940
960
980
1000

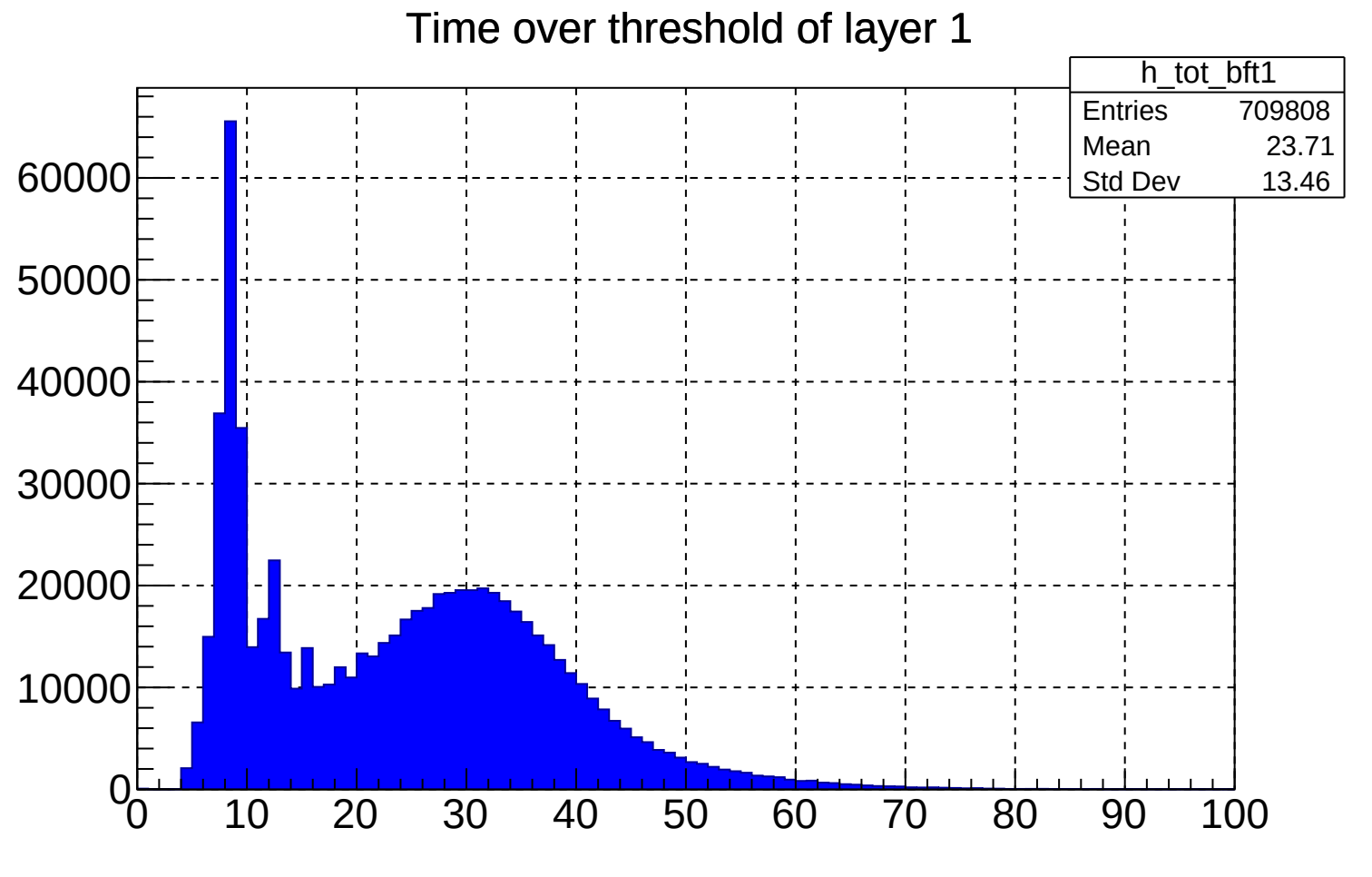

Leading TDC value of layer 2
h_ltdc_bft2
Entries 823820
Mean 896.5
Std Dev 20.36
80000
70000
60000
50000
40000
30000
20000
10000
0
800
820
840
860
880
900
920
940
960
980
1000

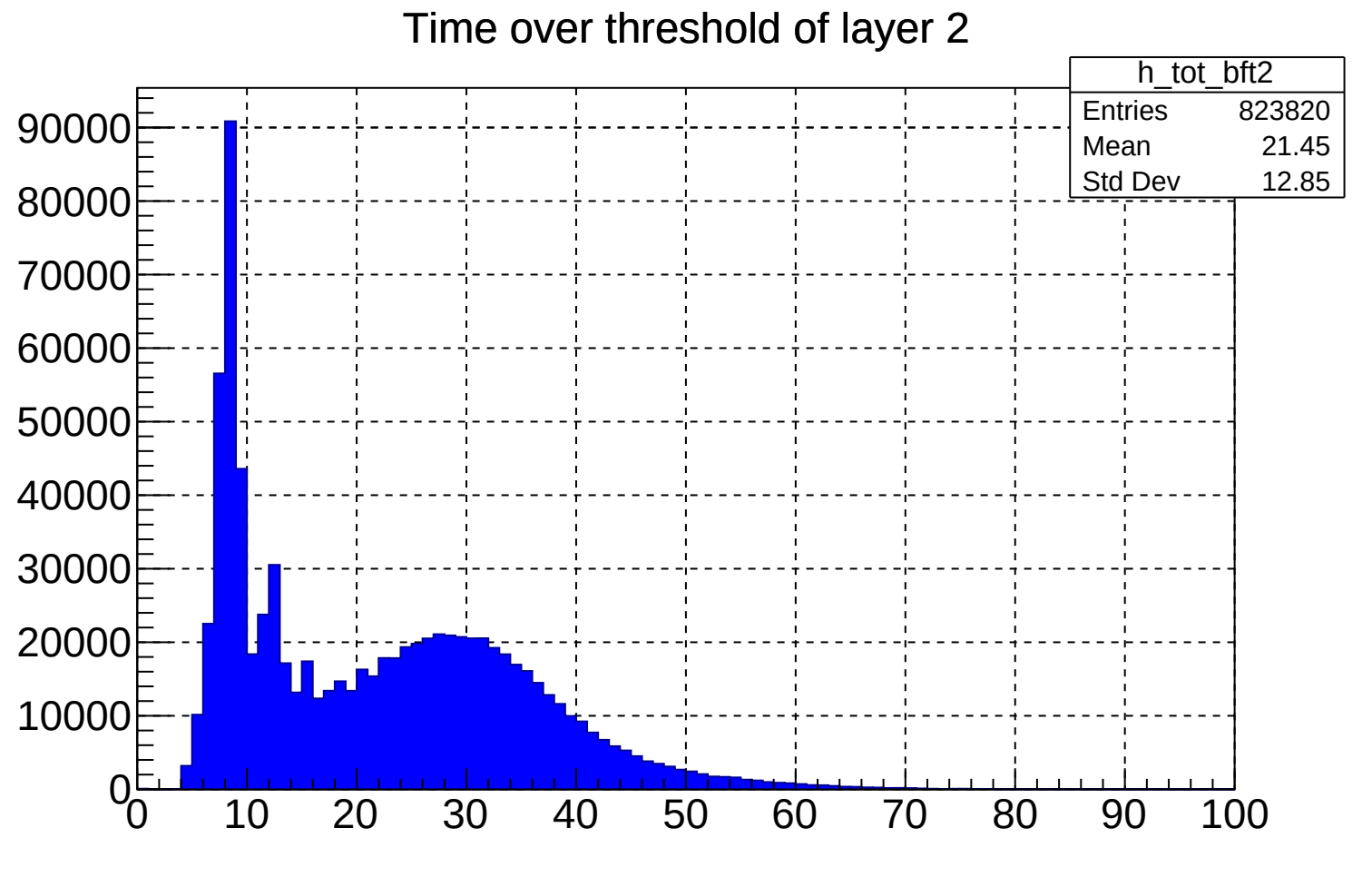

Leading TDC value of layer 3
h_ltdc_bft3
Entries 872428
Mean 896.6
Std Dev 21.01
80000
70000
60000
50000
40000
30000
20000
10000
0
800
820
840
860
880
900
920
940
960
980
1000

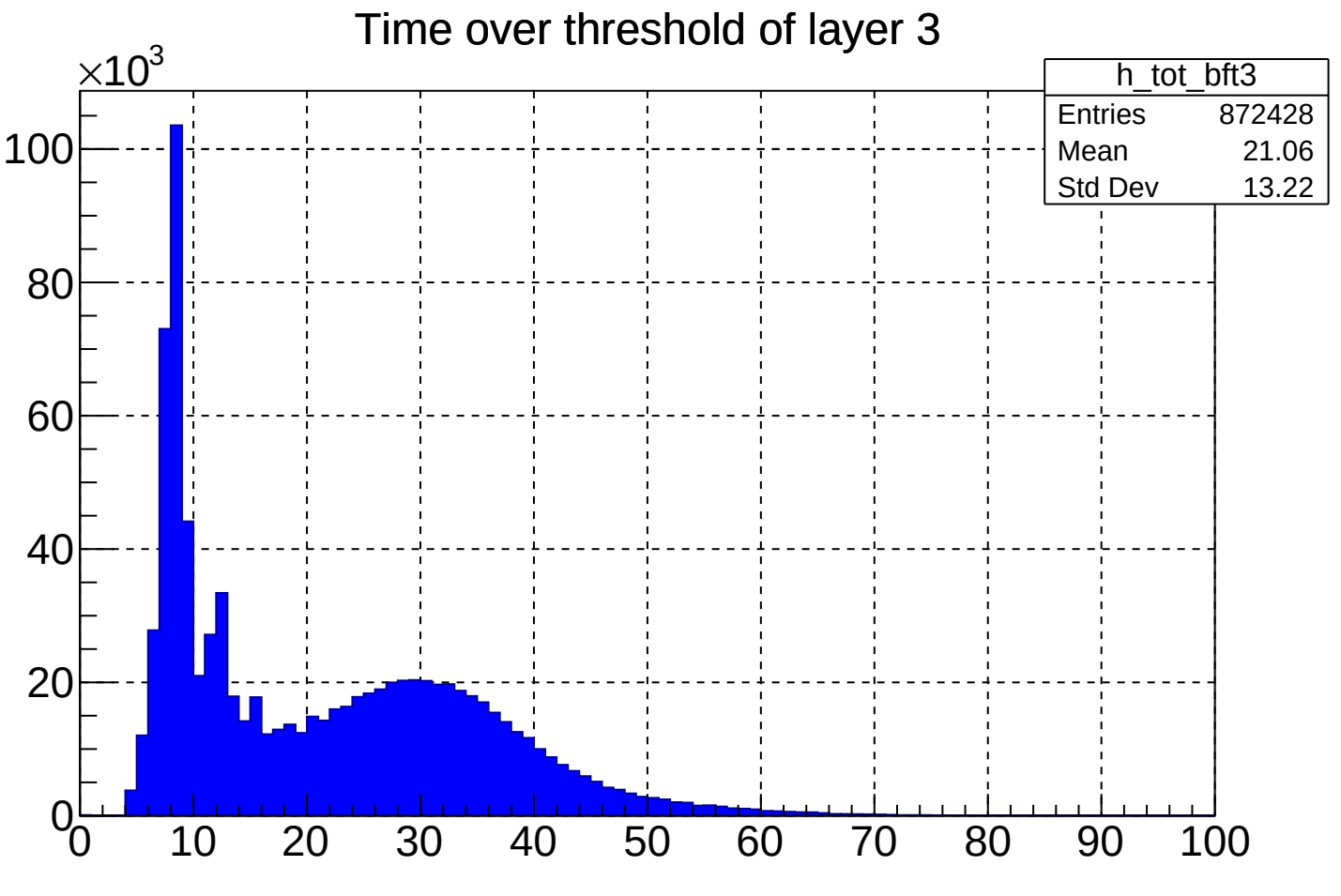

Leading TDC value of layer 4
h_ltdc_bft4
Entries 817834
Mean 896.4
Std Dev 20.53
80000
70000
60000
50000
40000
30000
20000
10000
0
800
820
840
860
880
900
920
940
960
980
1000

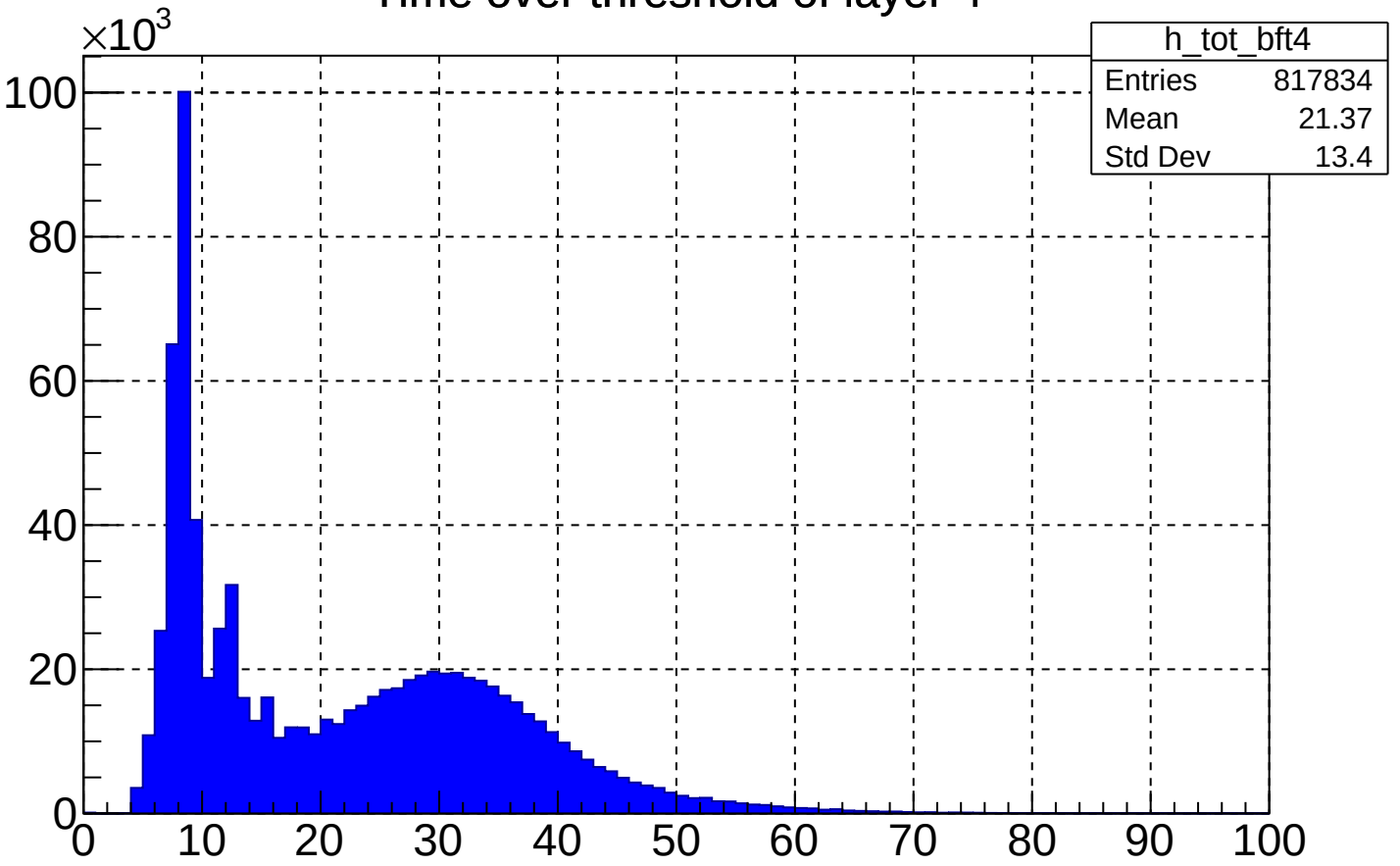

Leading TDC value of layer 5
h_ltdc_bft5
Entries 838660
Mean 896.9
Std Dev 20.57
70000
60000
50000
40000
30000
20000
10000
0
800
820
840
860
880
900
920
940
960
980
1000

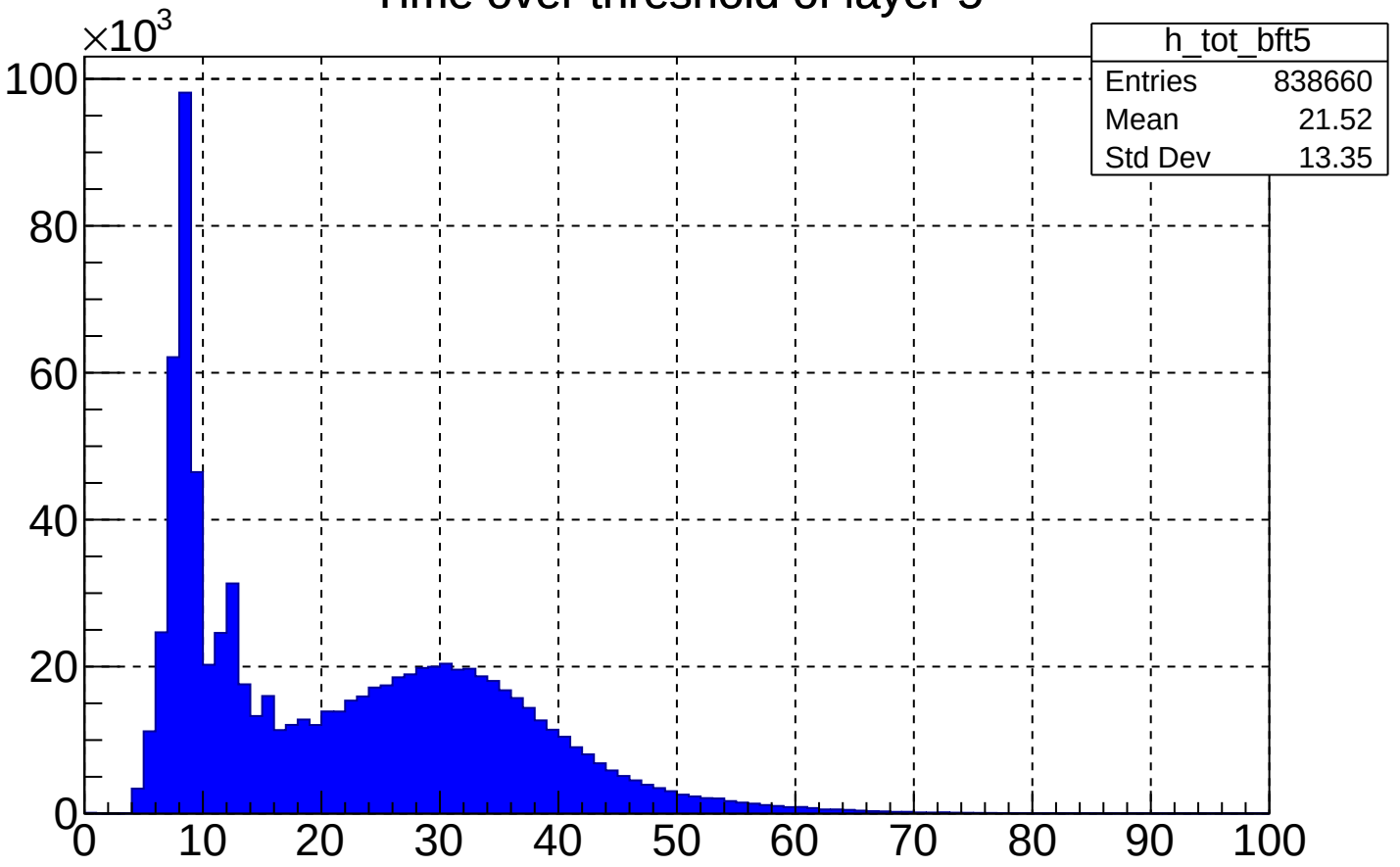

Leading TDC value of layer 6
h_ltdc_bft6
Entries 876871
Mean 897.1
Std Dev 21.2
70000
60000
50000
40000
30000
20000
10000
0
800
820
840
860
880
900
920
940
960
980
1000

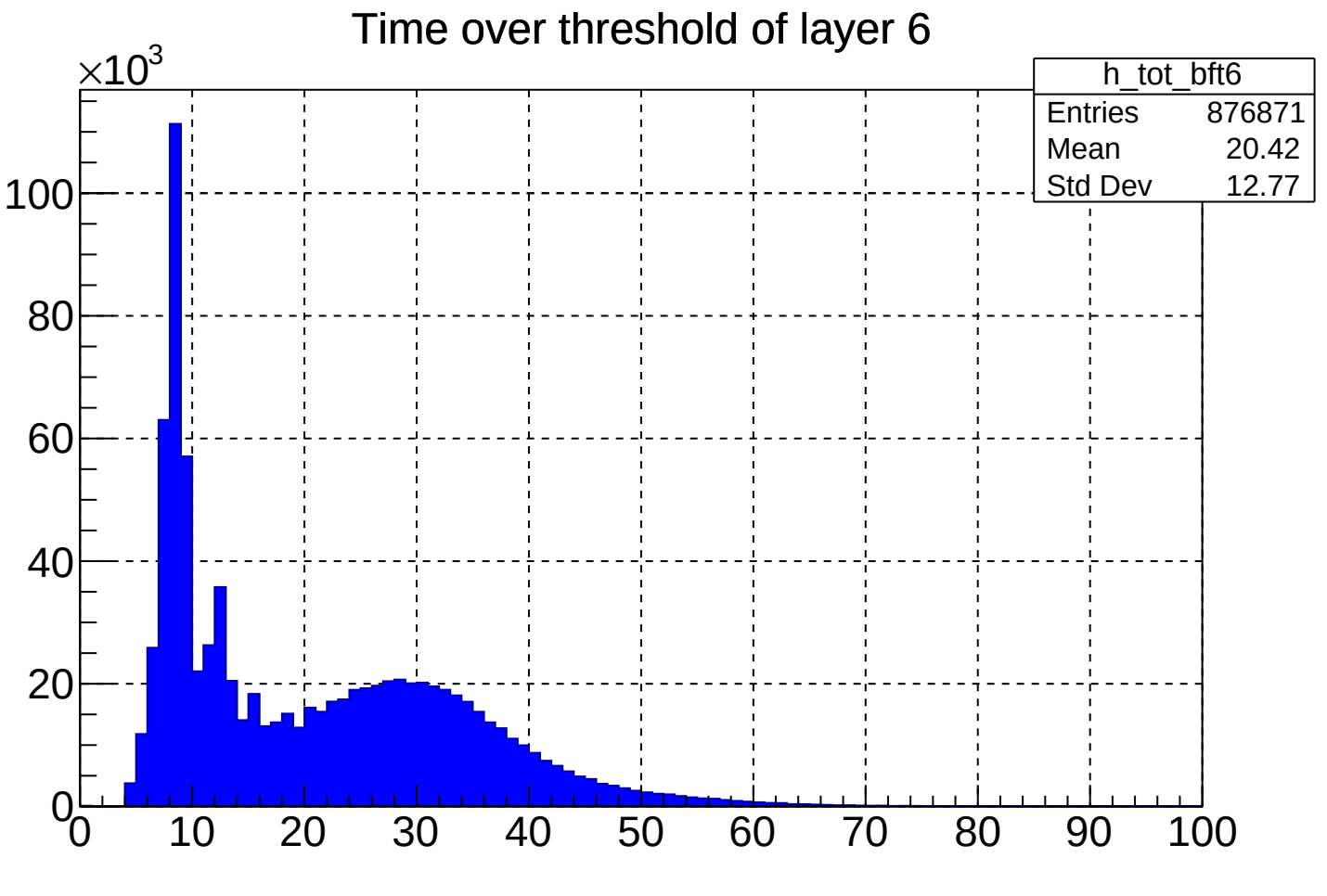

Time over threshold of layer 1
h_tot_bft1
Entries 709808
Mean 23.71
Std Dev 13.46
60000
50000
40000
30000
20000
10000
0
0
10
20
30
40
50
60
70
80
90
100


Time over threshold of layer 2
h_tot_bft2
Entries 823820
Mean 21.45
Std Dev 12.85
90000
80000
70000
60000
50000
40000
30000
20000
10000
0
0
10
20
30
40
50
60
70
80
90
100


Time over threshold of layer 3
×10^3
h_tot_bft3
Entries 872428
Mean 21.06
Std Dev 13.22
100
80
60
40
20
0
0 10 20 30 40 50 60 70 80 90 100


Time over threshold of layer 4
×10^3
h_tot_bft4
Entries 817834
Mean 21.37
Std Dev 13.4
100
80
60
40
20
0
0 10 20 30 40 50 60 70 80 90 100


Time over threshold of layer 5
×10^3
h_tot_bft5
Entries 838660
Mean 21.52
Std Dev 13.35
100
80
60
40
20
0
0 10 20 30 40 50 60 70 80 90 100


Time over threshold of layer 6
×10^3
h_tot_bft6
Entries 876871
Mean 20.42
Std Dev 12.77
100
80
60
40
20
0
0 10 20 30 40 50 60 70 80 90 100