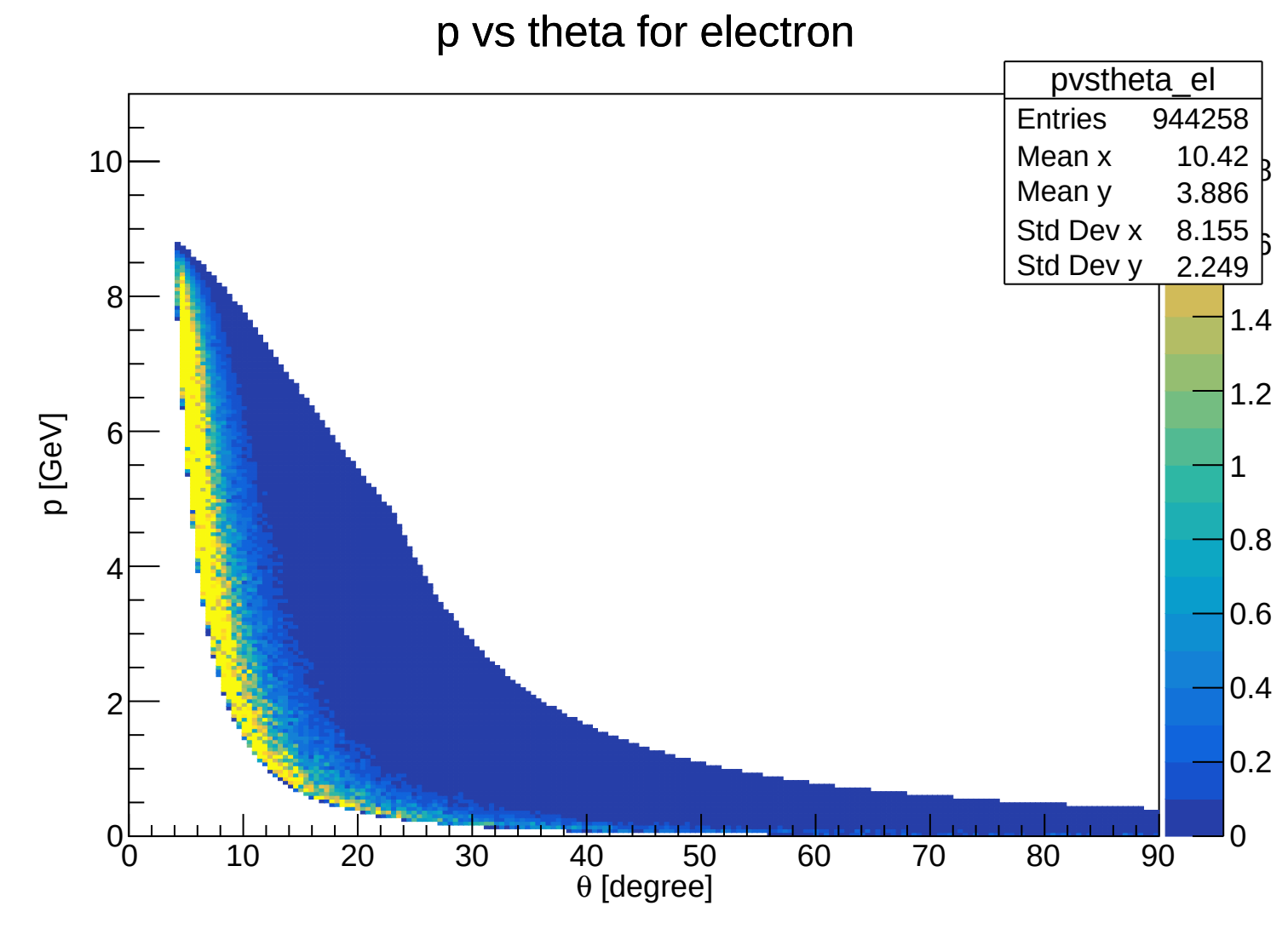
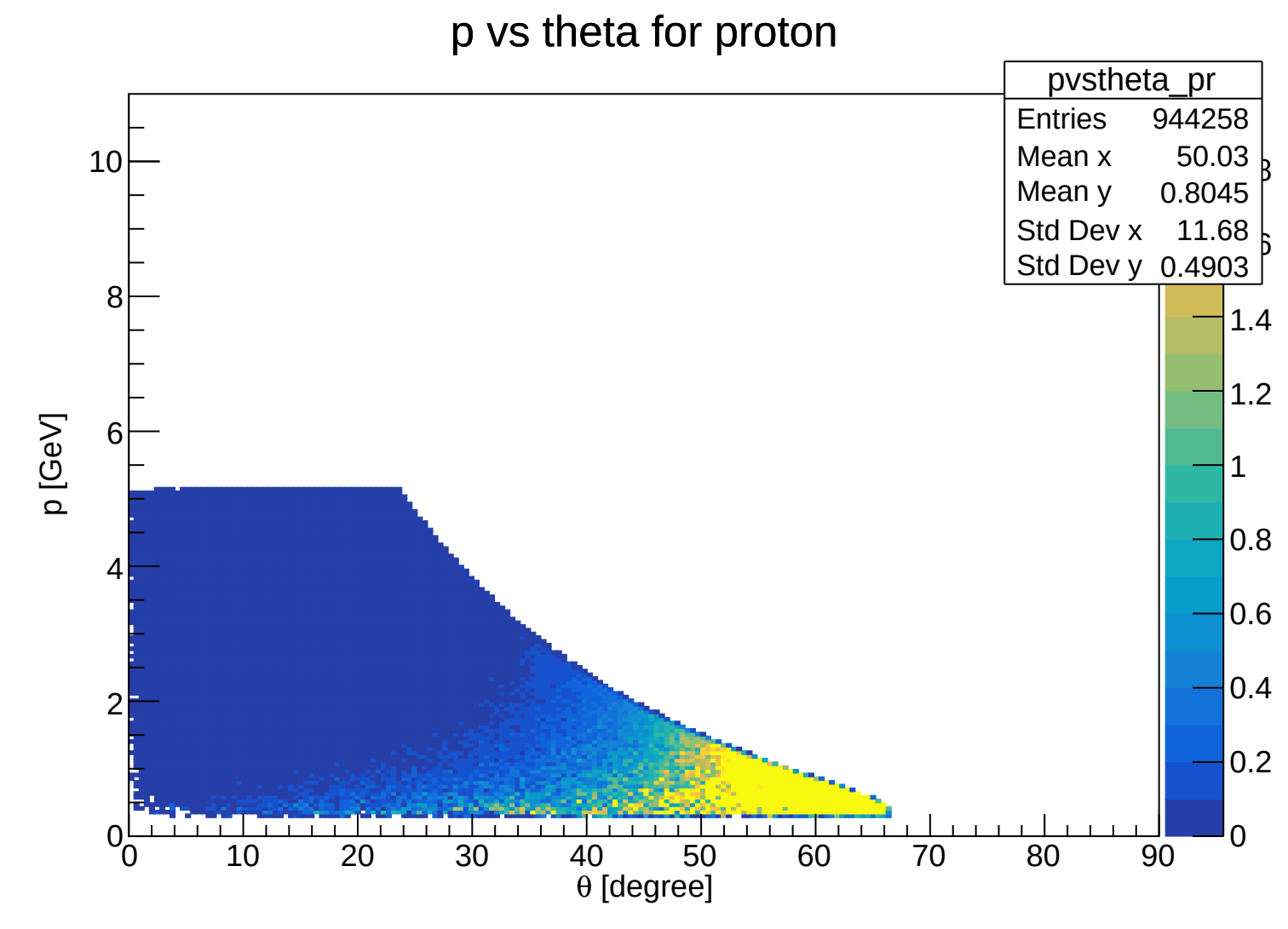
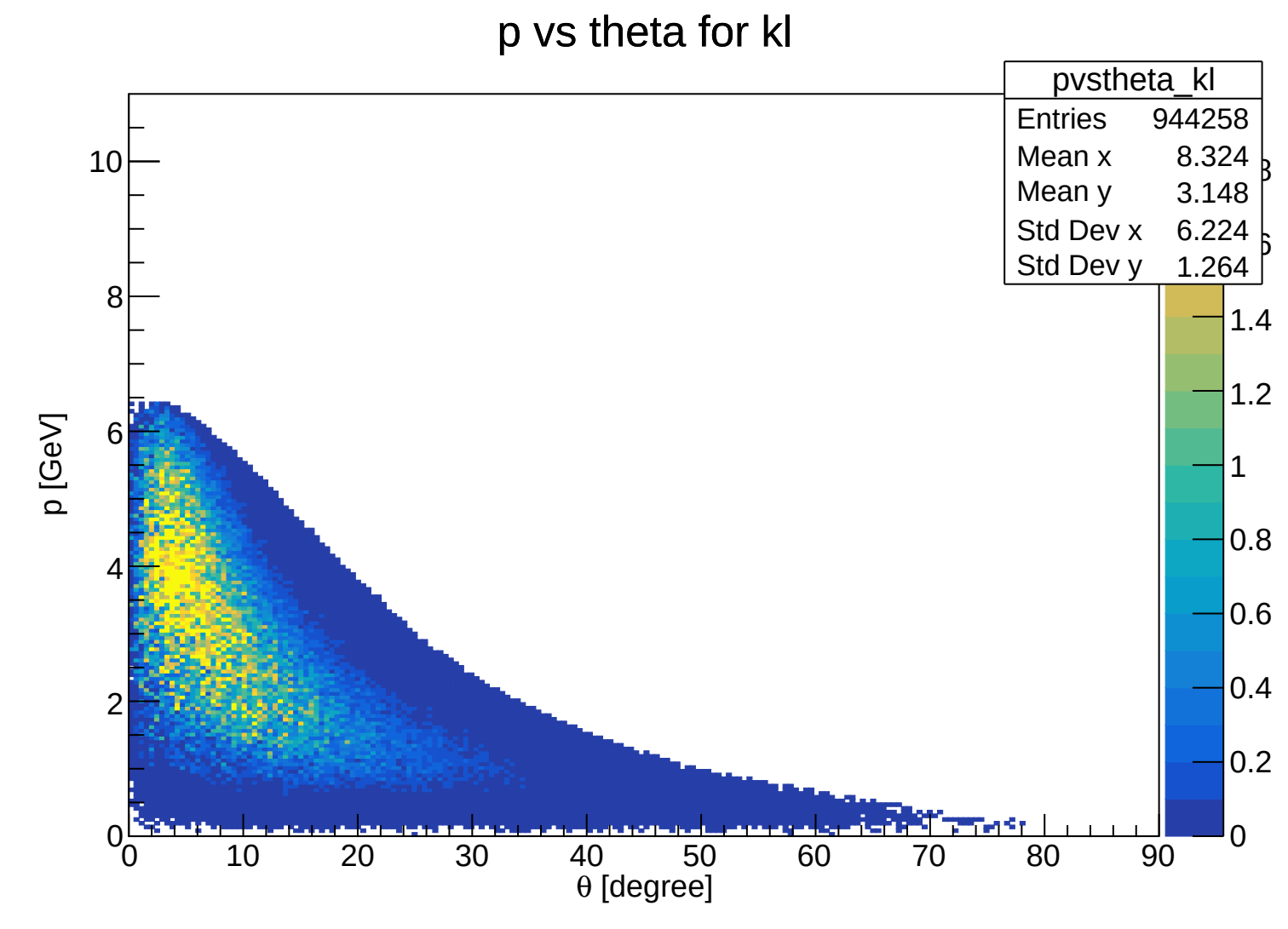
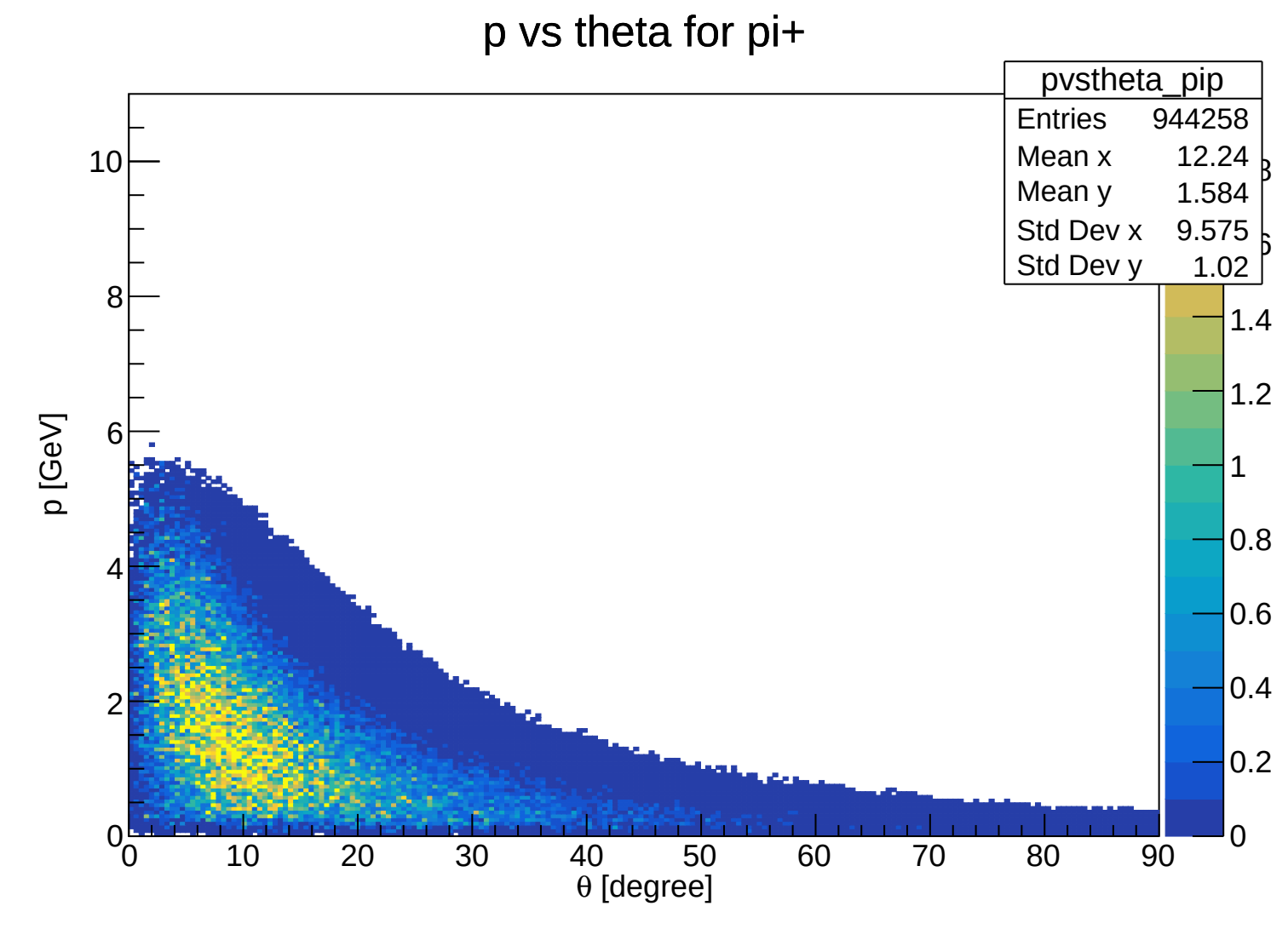
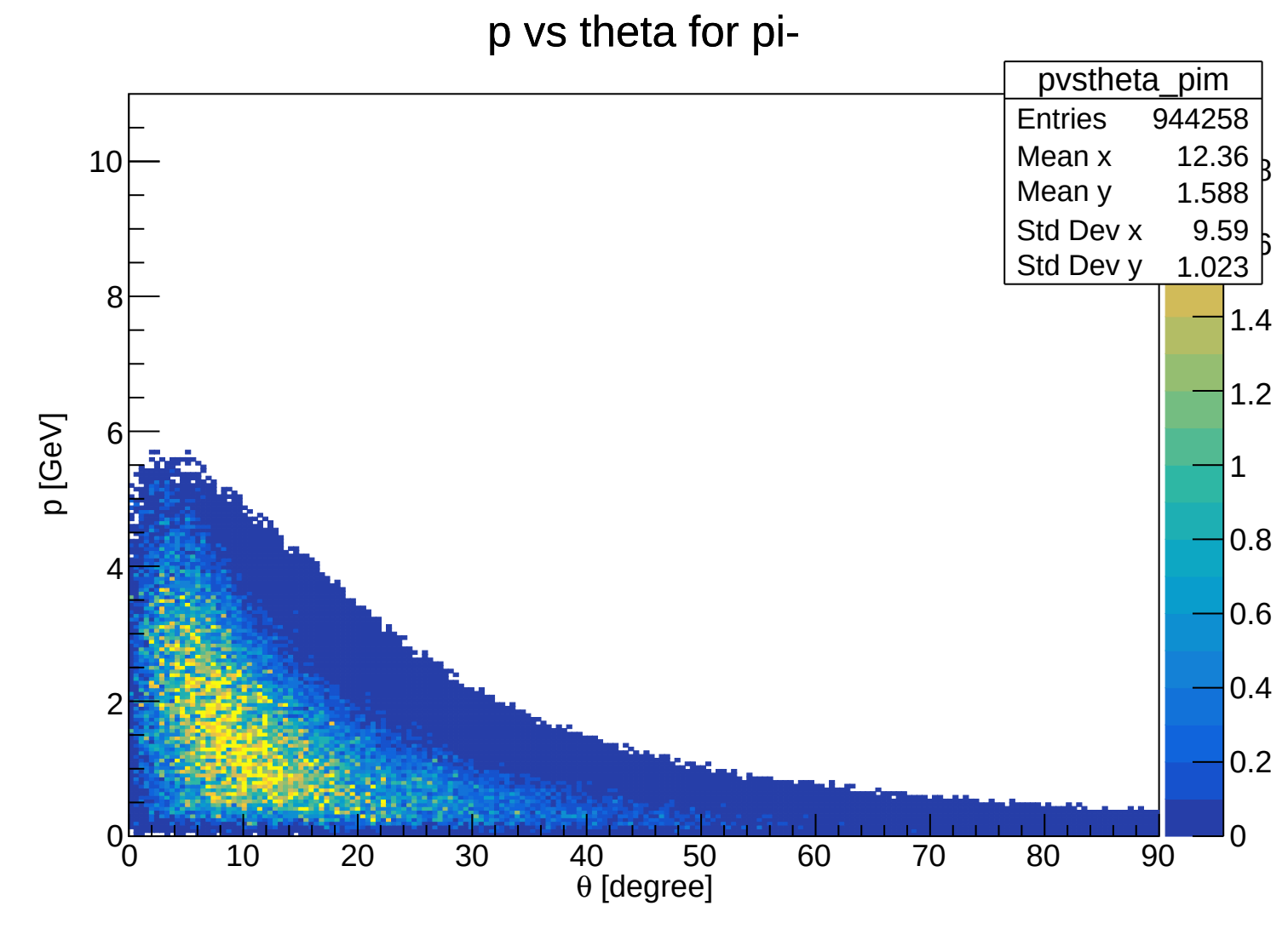
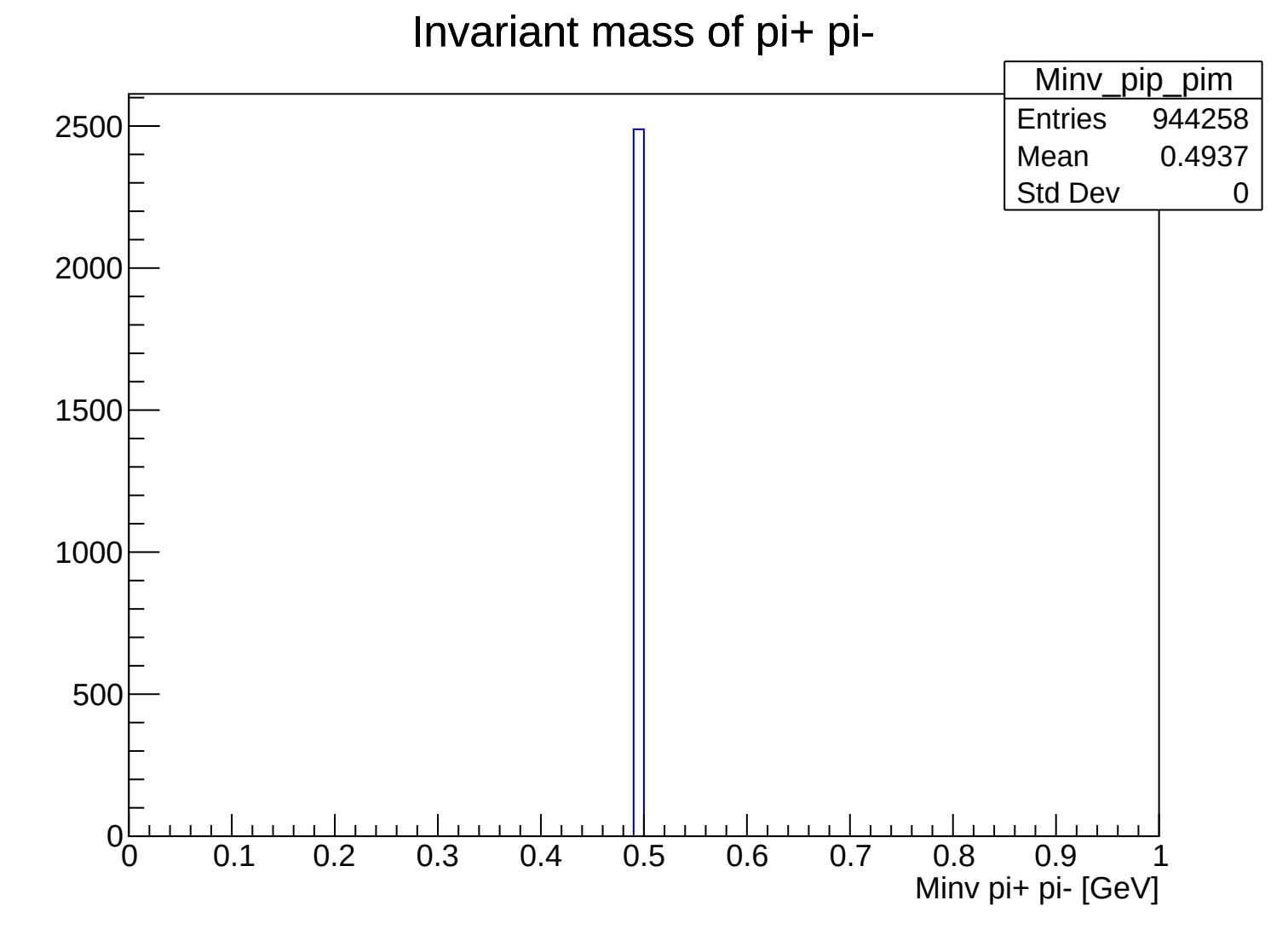

p vs theta for electron
pvstheta_el
Entries 944258
Mean x 10.42
Mean y 3.886
Std Dev x 8.155
Std Dev y 2.249
p [GeV]
θ [degree]
0
2
4
6
8
10
0
10
20
30
40
50
60
70
80
90
0
0.2
0.4
0.6
0.8
1
1.2
1.4

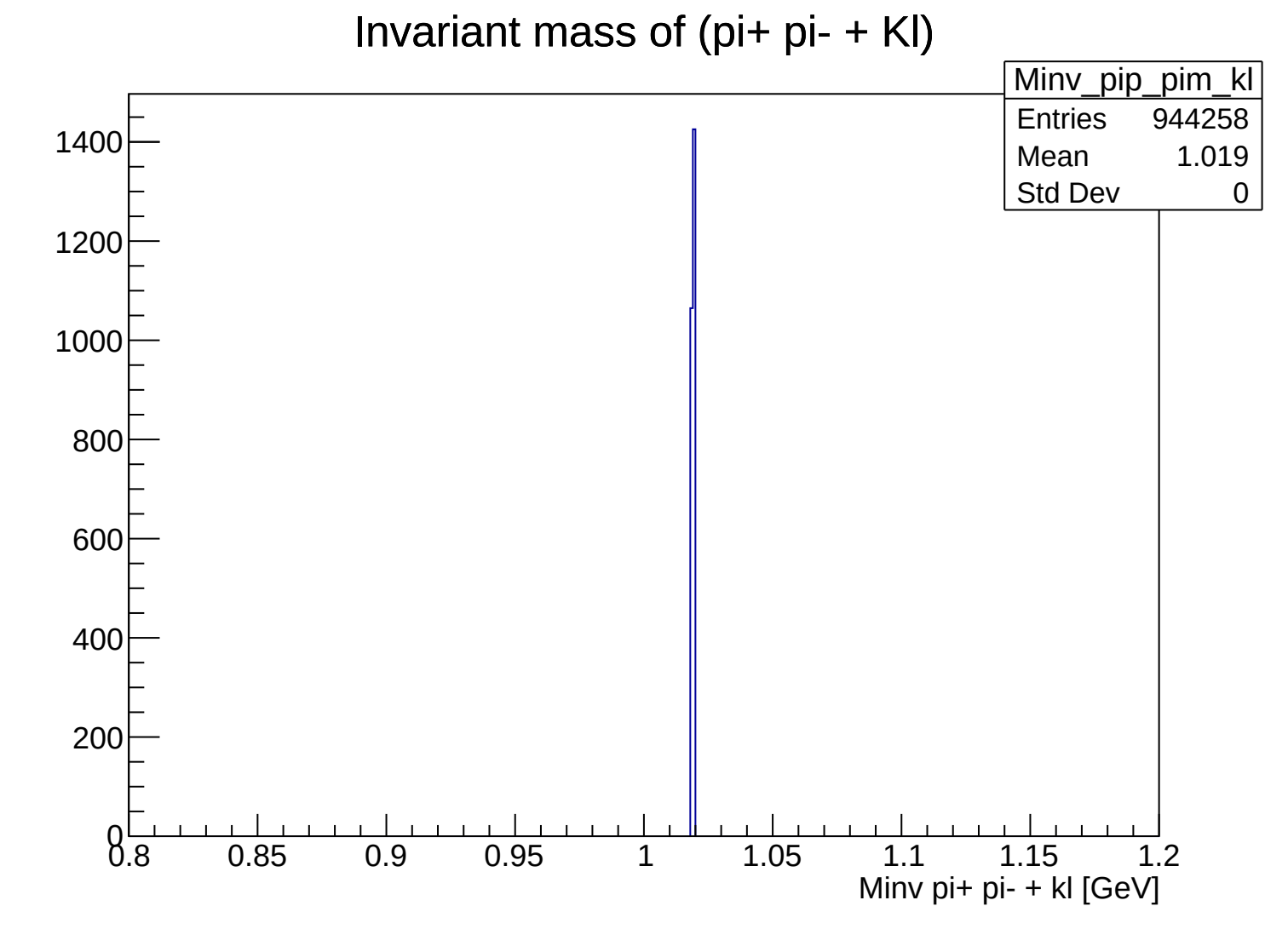

p vs theta for proton
pvstheta_pr
Entries 944258
Mean x 50.03
Mean y 0.8045
Std Dev x 11.68
Std Dev y 0.4903
p [GeV]
θ [degree]
0
2
4
6
8
10
0
10
20
30
40
50
60
70
80
90
0
0.2
0.4
0.6
0.8
1
1.2
1.4

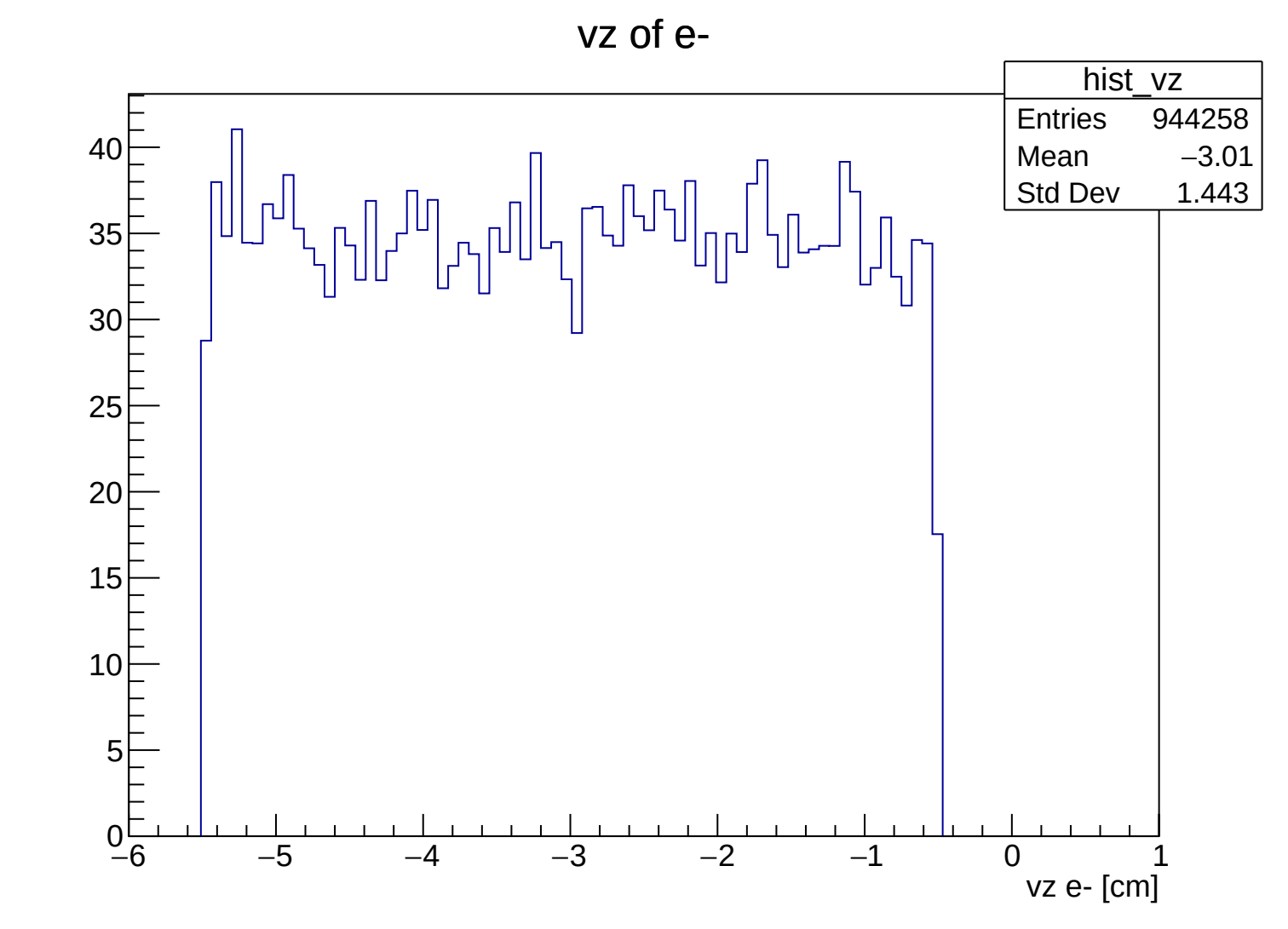

p vs theta for kl
pvstheta_kl
Entries 944258
Mean x 8.324
Mean y 3.148
Std Dev x 6.224
Std Dev y 1.264
p [GeV]
θ [degree]
0
2
4
6
8
10
0
10
20
30
40
50
60
70
80
90
0
0.2
0.4
0.6
0.8
1
1.2
1.4

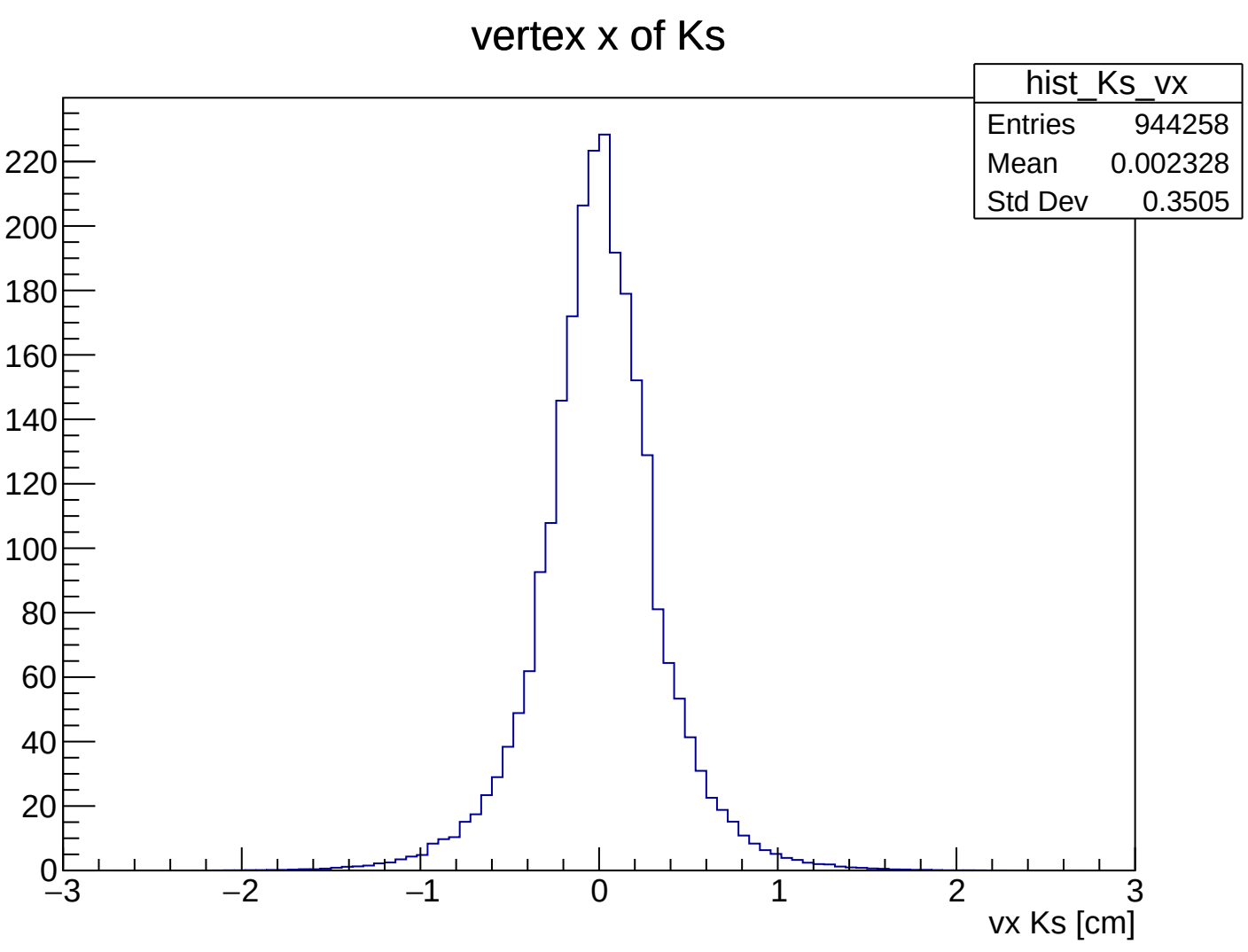

p vs theta for pi+
pvstheta_pip
Entries 944258
Mean x 12.24
Mean y 1.584
Std Dev x 9.575
Std Dev y 1.02
p [GeV]
θ [degree]
0
2
4
6
8
10
0
10
20
30
40
50
60
70
80
90
0
0.2
0.4
0.6
0.8
1
1.2
1.4

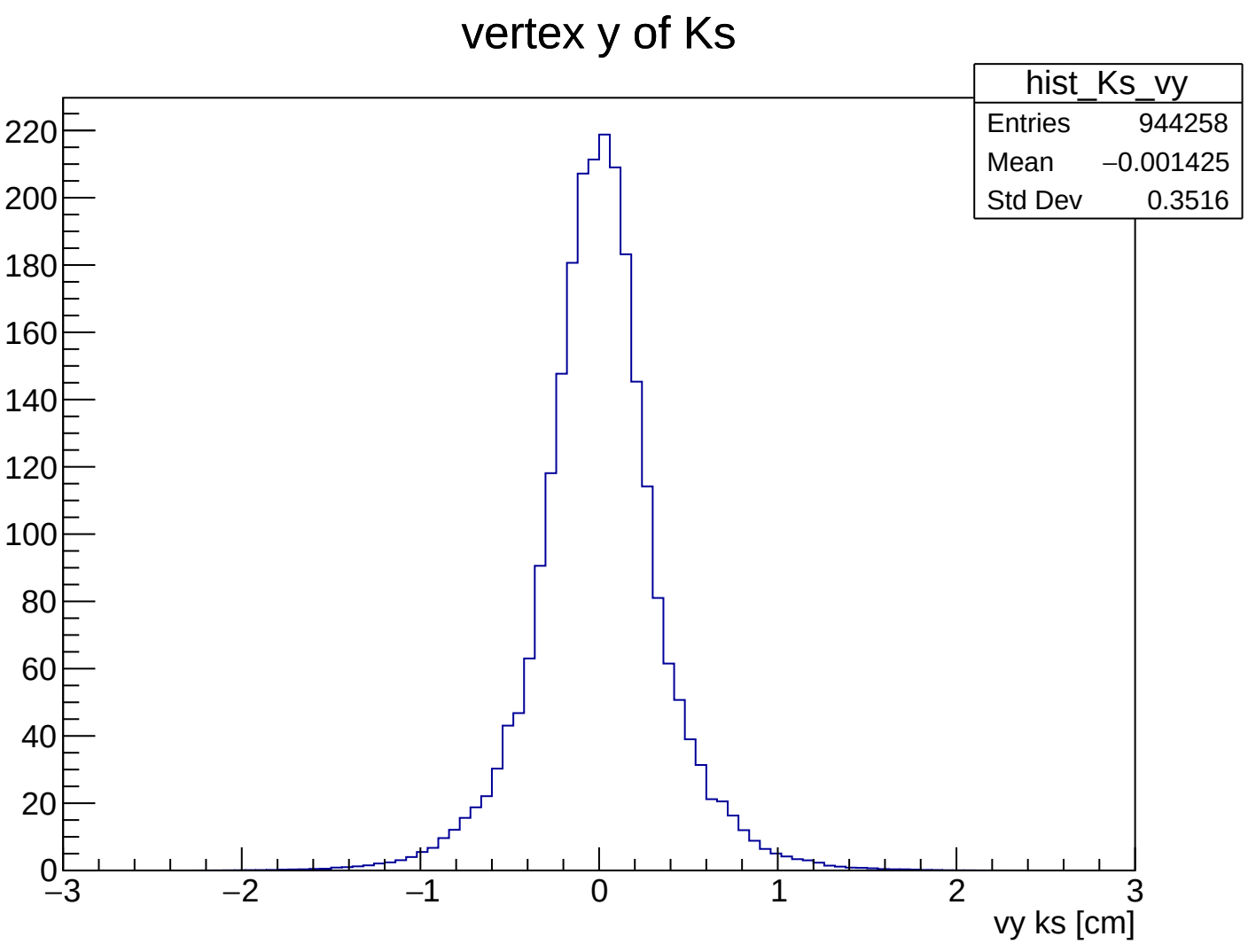

p vs theta for pi-
pvstheta_pim
Entries 944258
Mean x 12.36
Mean y 1.588
Std Dev x 9.59
Std Dev y 1.023
p [GeV]
θ [degree]
0
2
4
6
8
10
0
10
20
30
40
50
60
70
80
90
0
0.2
0.4
0.6
0.8
1
1.2
1.4

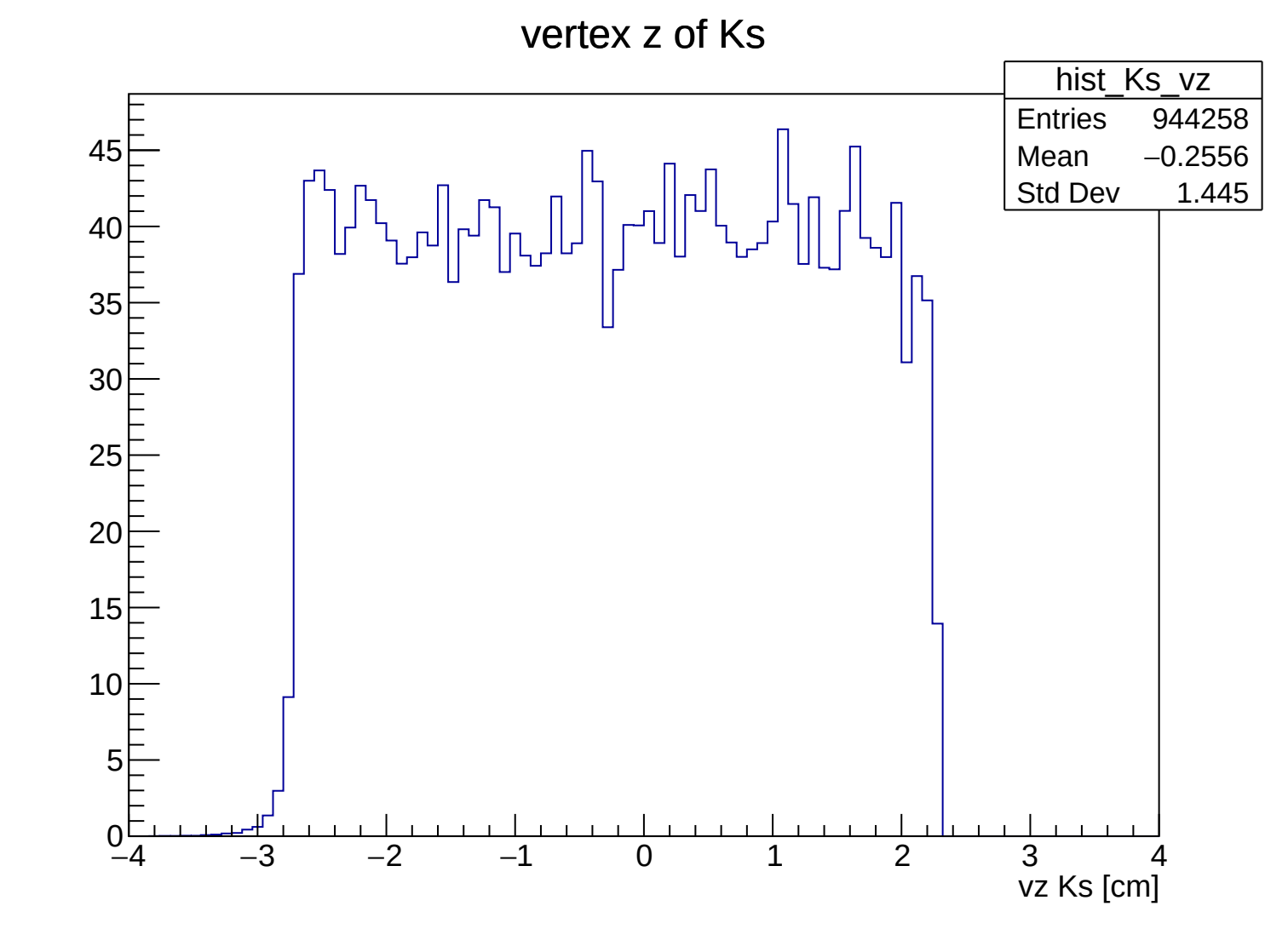

Invariant mass of pi+ pi-
Minv_pip_pim
Entries 944258
Mean 0.4937
Std Dev 0
2500
2000
1500
1000
500
0
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Minv pi+ pi- [GeV]

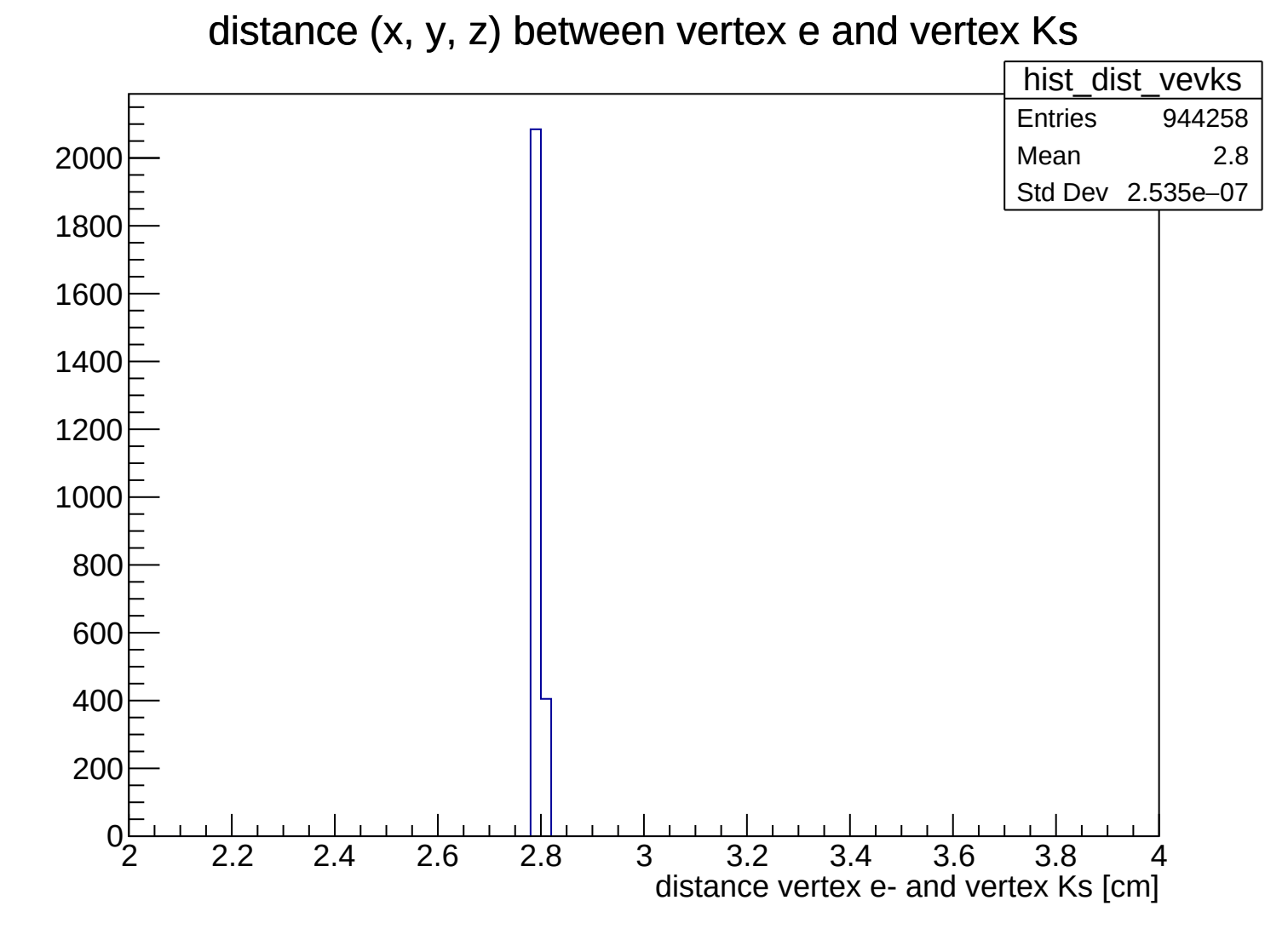

Invariant mass of (pi+ pi- + Kl)
Minv_pip_pim_kl
Entries 944258
Mean 1.019
Std Dev 0
1400
1200
1000
800
600
400
200
0
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2
Minv pi+ pi- + kl [GeV]

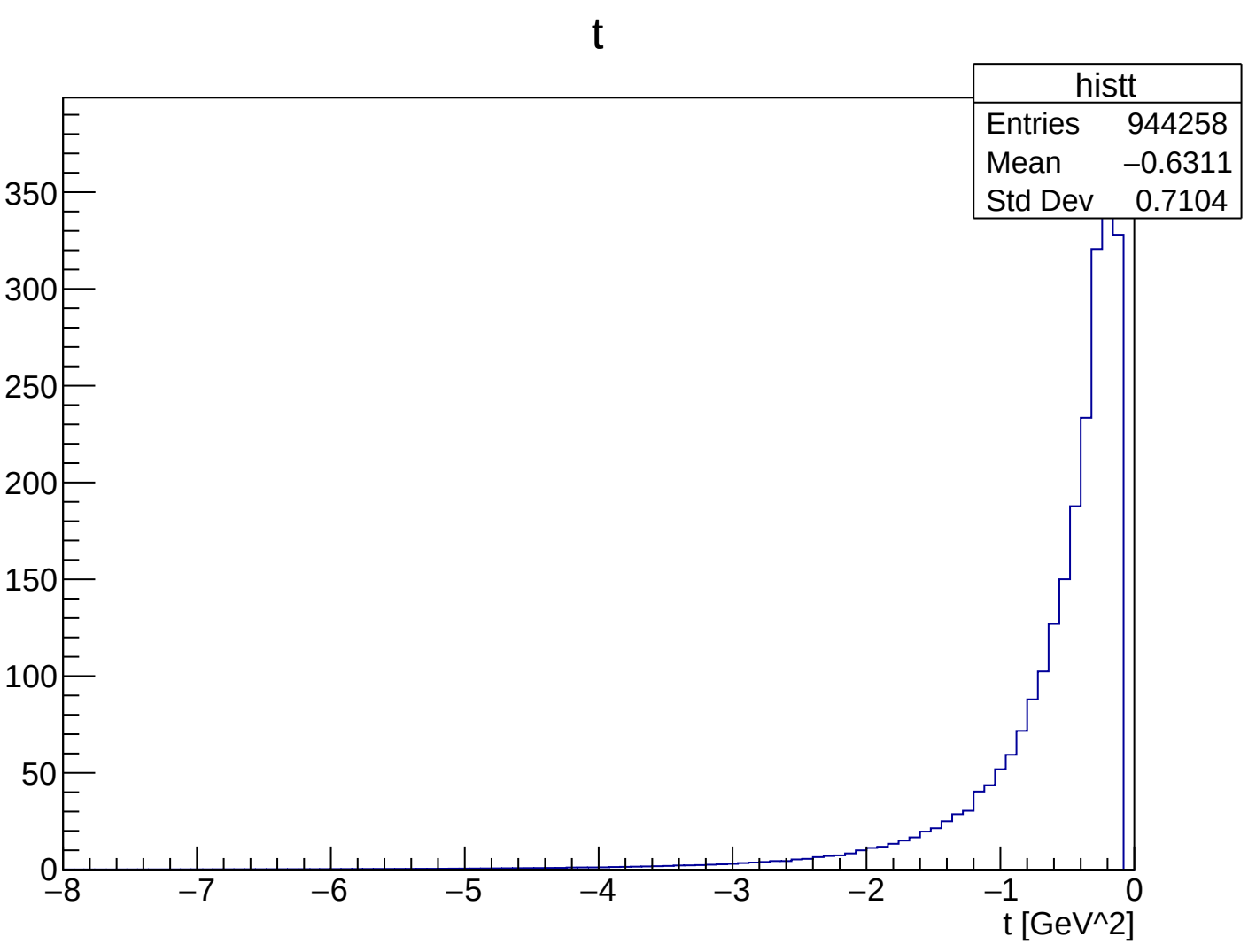

vz of e-
hist_vz
Entries 944258
Mean −3.01
Std Dev 1.443
40
35
30
25
20
15
10
5
0
−6
−5
−4
−3
−2
−1
0
1
vz e- [cm]

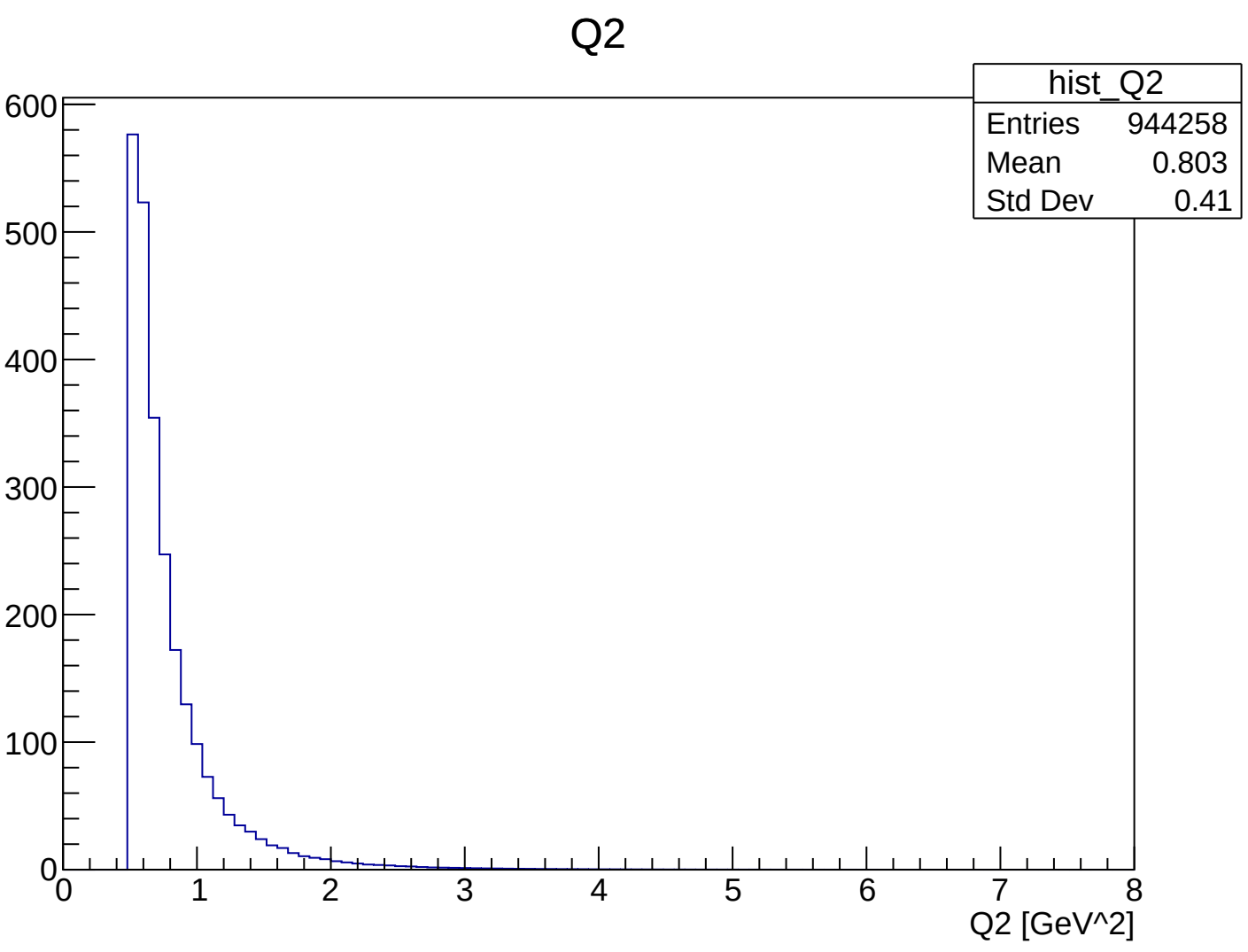

vertex x of Ks
hist_Ks_vx
Entries 944258
Mean 0.002328
Std Dev 0.3505
220
200
180
160
140
120
100
80
60
40
20
0
−3
−2
−1
0
1
2
3
vx Ks [cm]


vertex y of Ks
hist_Ks_vy
Entries 944258
Mean −0.001425
Std Dev 0.3516
220
200
180
160
140
120
100
80
60
40
20
0
−3
−2
−1
0
1
2
3
vy ks [cm]


vertex z of Ks
hist_Ks_vz
Entries 944258
Mean −0.2556
Std Dev 1.445
45
40
35
30
25
20
15
10
5
0
−4
−3
−2
−1
0
1
2
3
4
vz Ks [cm]


distance (x, y, z) between vertex e and vertex Ks
hist_dist_vevks
Entries 944258
Mean 2.8
Std Dev 2.535e−07
2000
1800
1600
1400
1200
1000
800
600
400
200
0
2
2.2
2.4
2.6
2.8
3
3.2
3.4
3.6
3.8
4
distance vertex e- and vertex Ks [cm]


t
histt
Entries 944258
Mean −0.6311
Std Dev 0.7104
350
300
250
200
150
100
50
0
−8
−7
−6
−5
−4
−3
−2
−1
0
t [GeV^2]


Q2
hist_Q2
Entries 944258
Mean 0.803
Std Dev 0.41
600
500
400
300
200
100
0
0
1
2
3
4
5
6
7
8
Q2 [GeV^2]