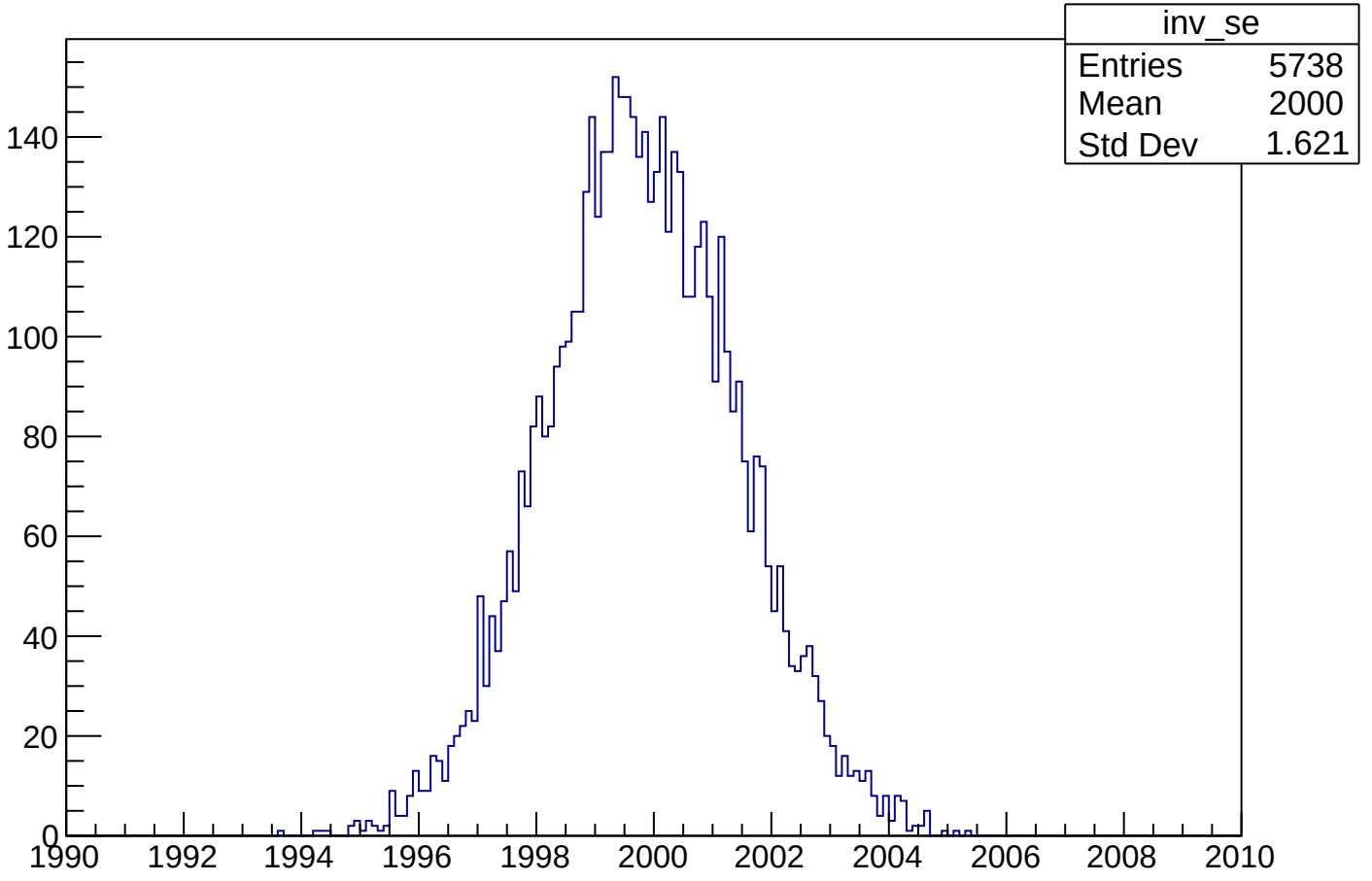
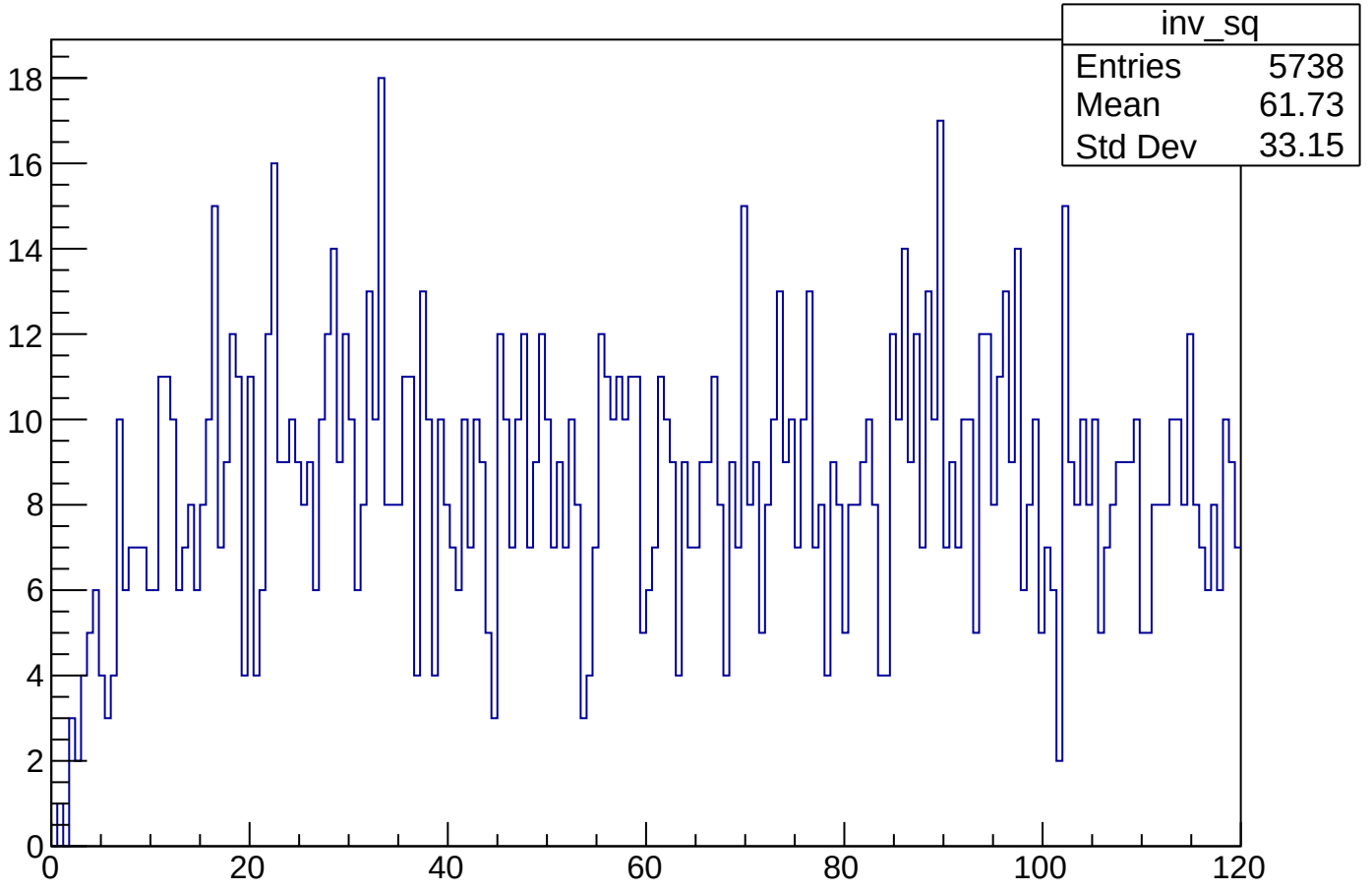
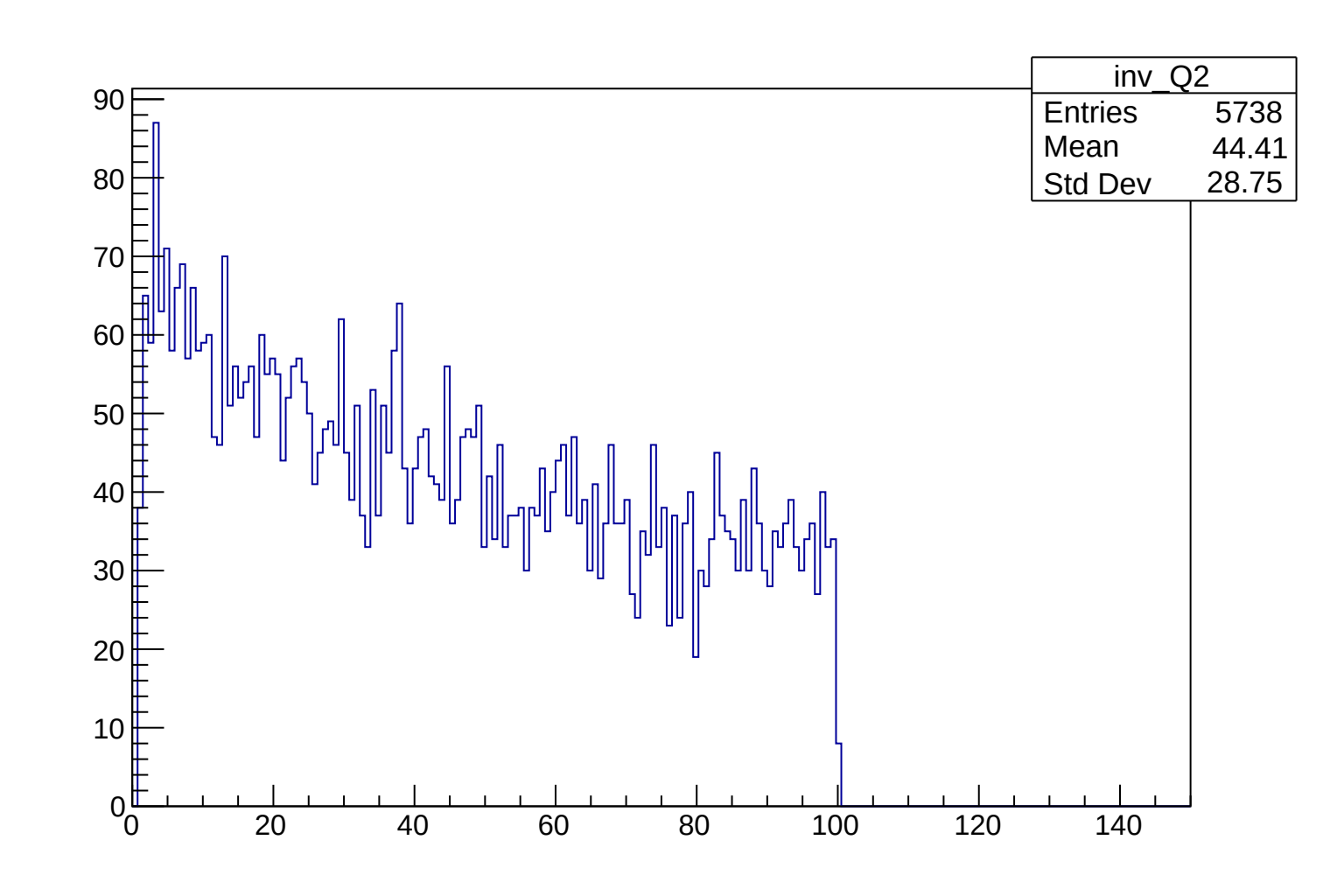
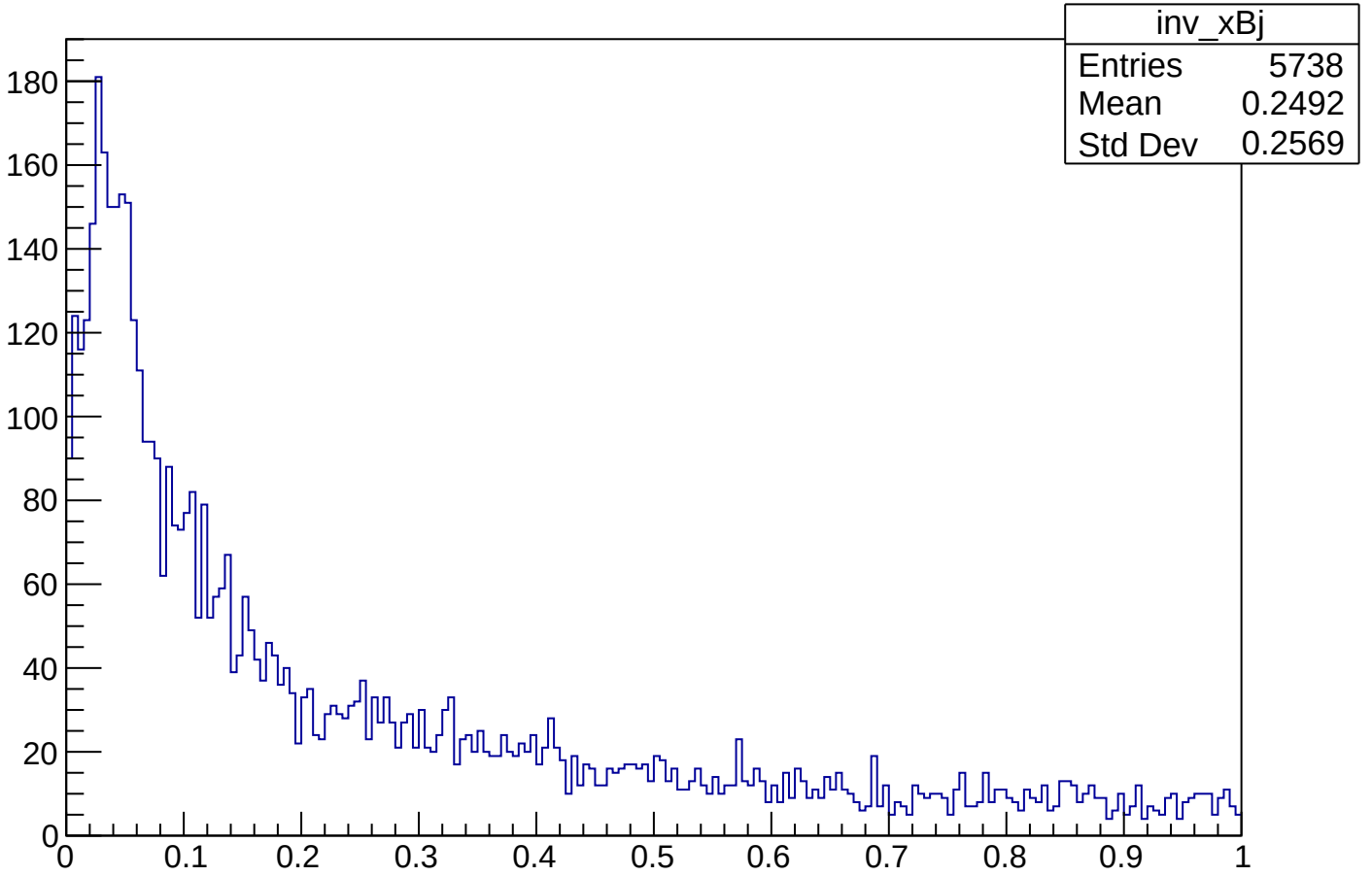
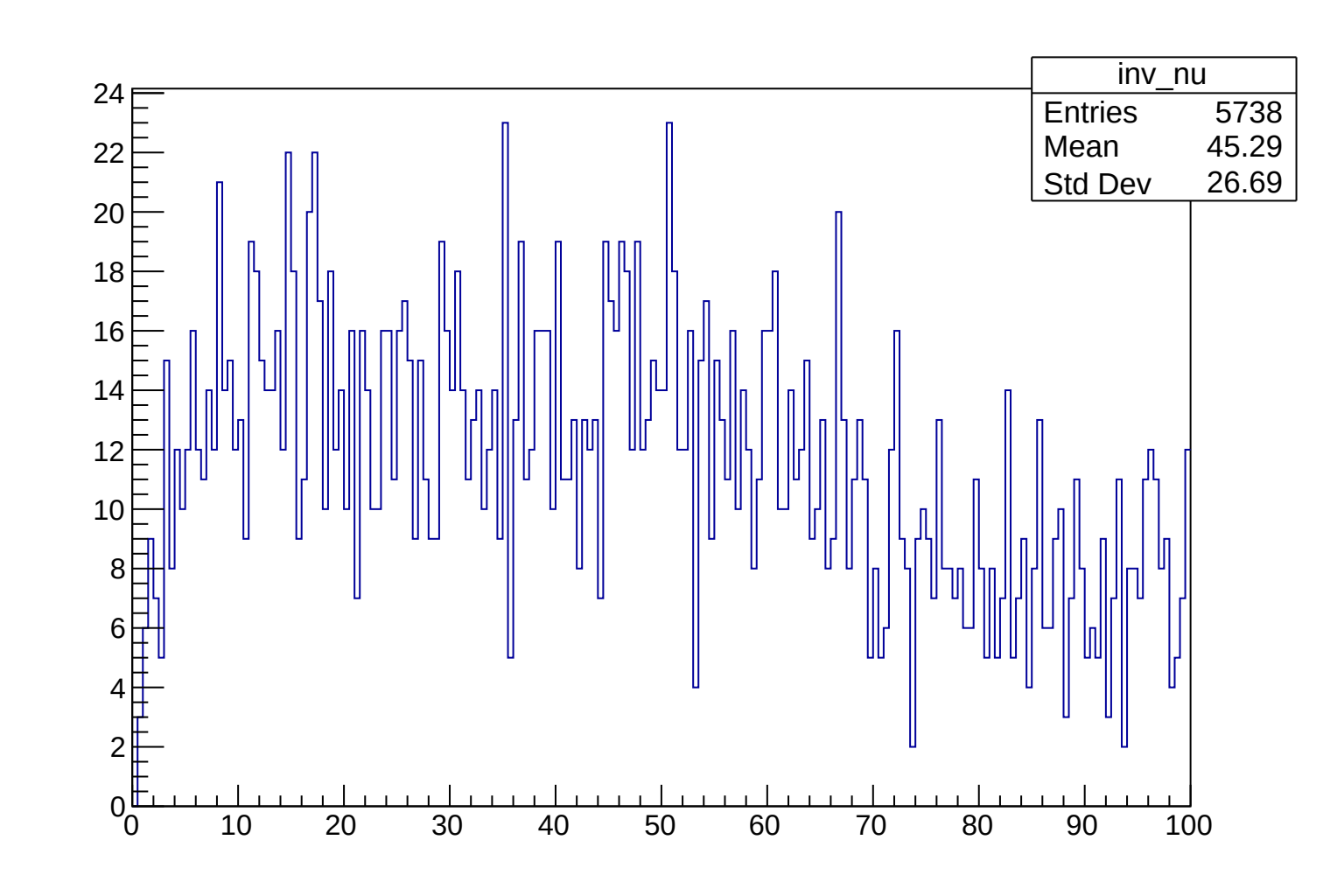
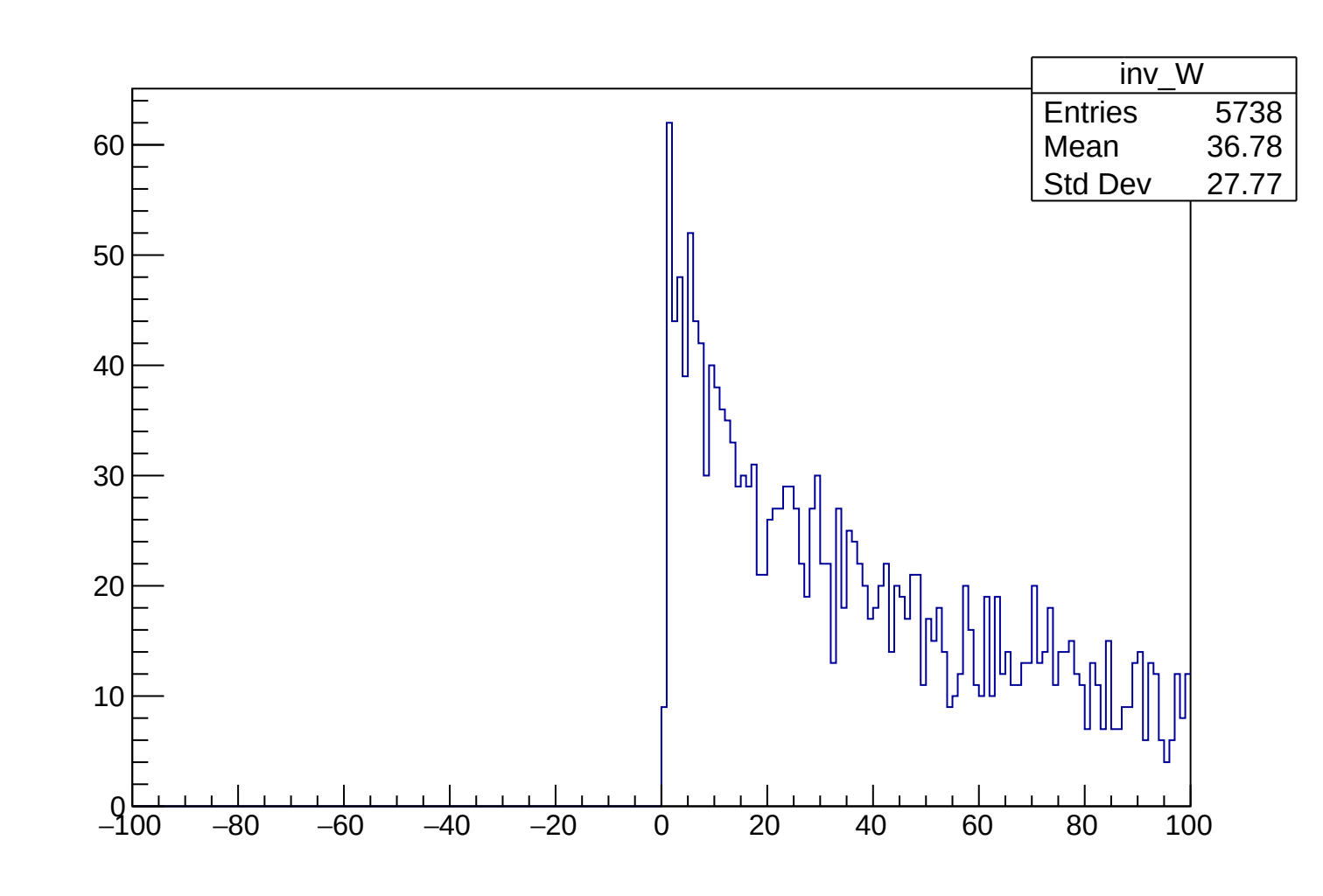

inv_se
Entries 5738
Mean 2000
Std Dev 1.621
140
120
100
80
60
40
20
0
1990
1992
1994
1996
1998
2000
2002
2004
2006
2008
2010

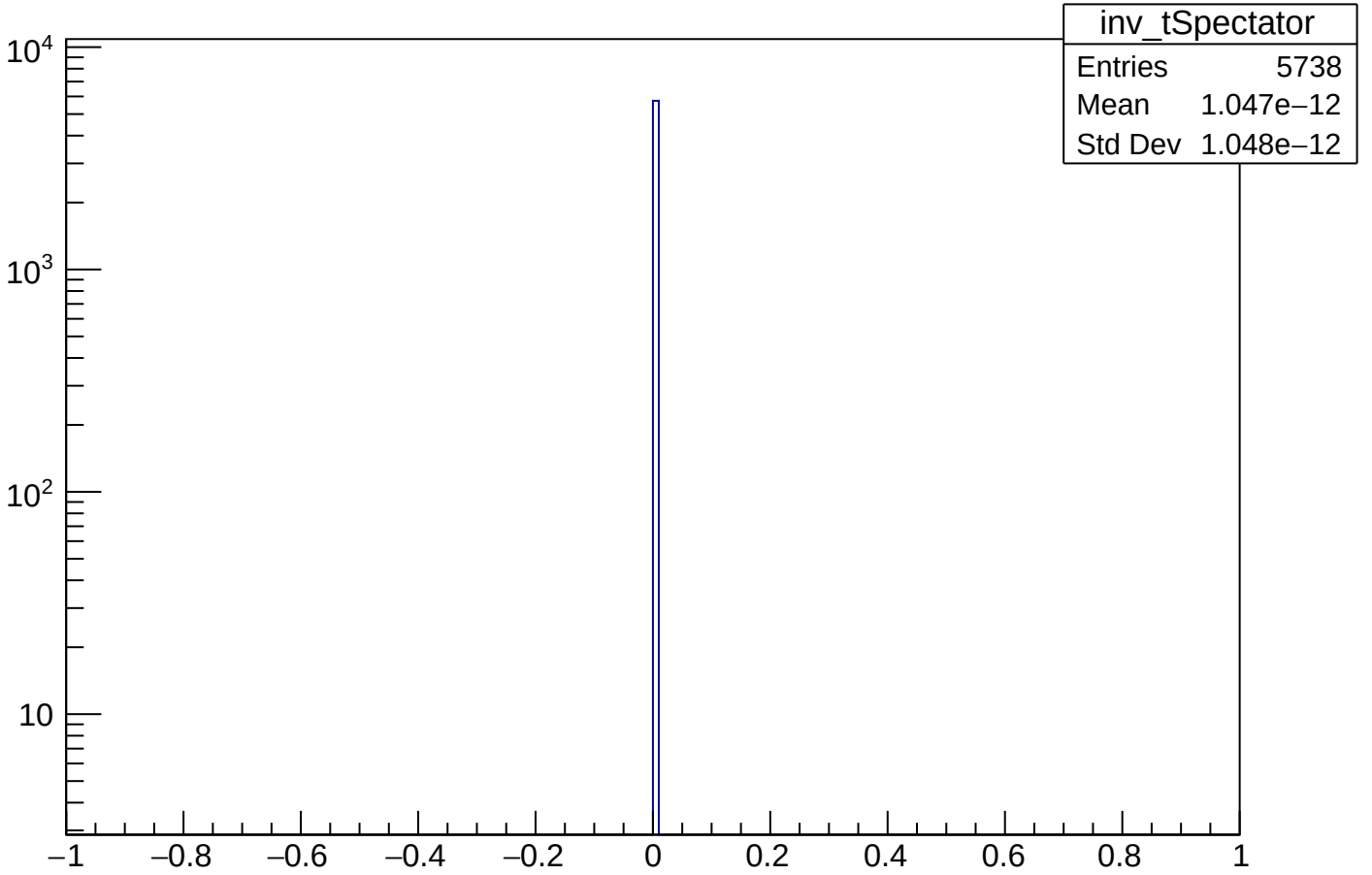

inv_sq
Entries 5738
Mean 61.73
Std Dev 33.15
0
2
4
6
8
10
12
14
16
18
0
20
40
60
80
100
120

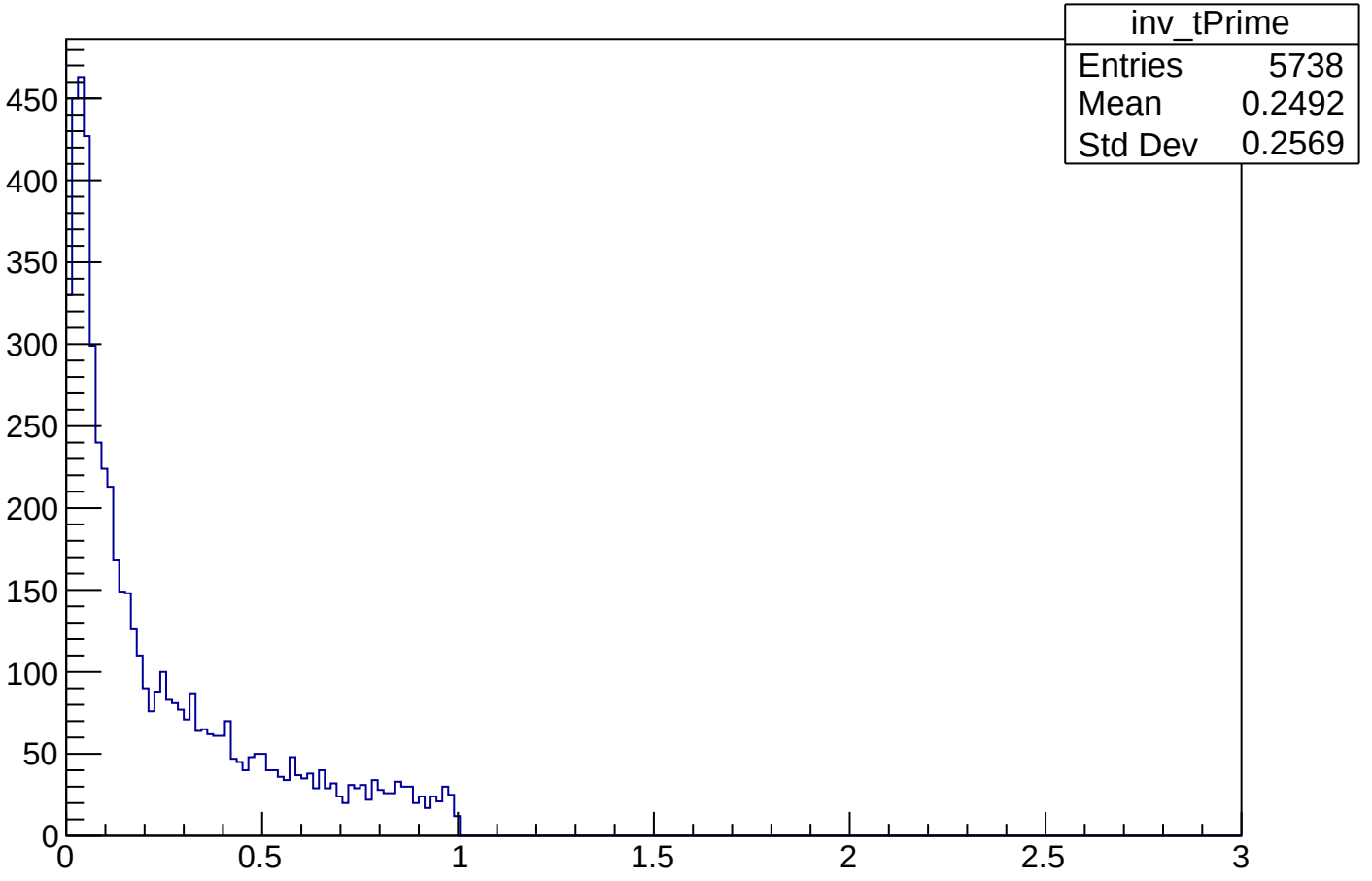

inv_Q2
Entries 5738
Mean 44.41
Std Dev 28.75
90
80
70
60
50
40
30
20
10
0
0
20
40
60
80
100
120
140

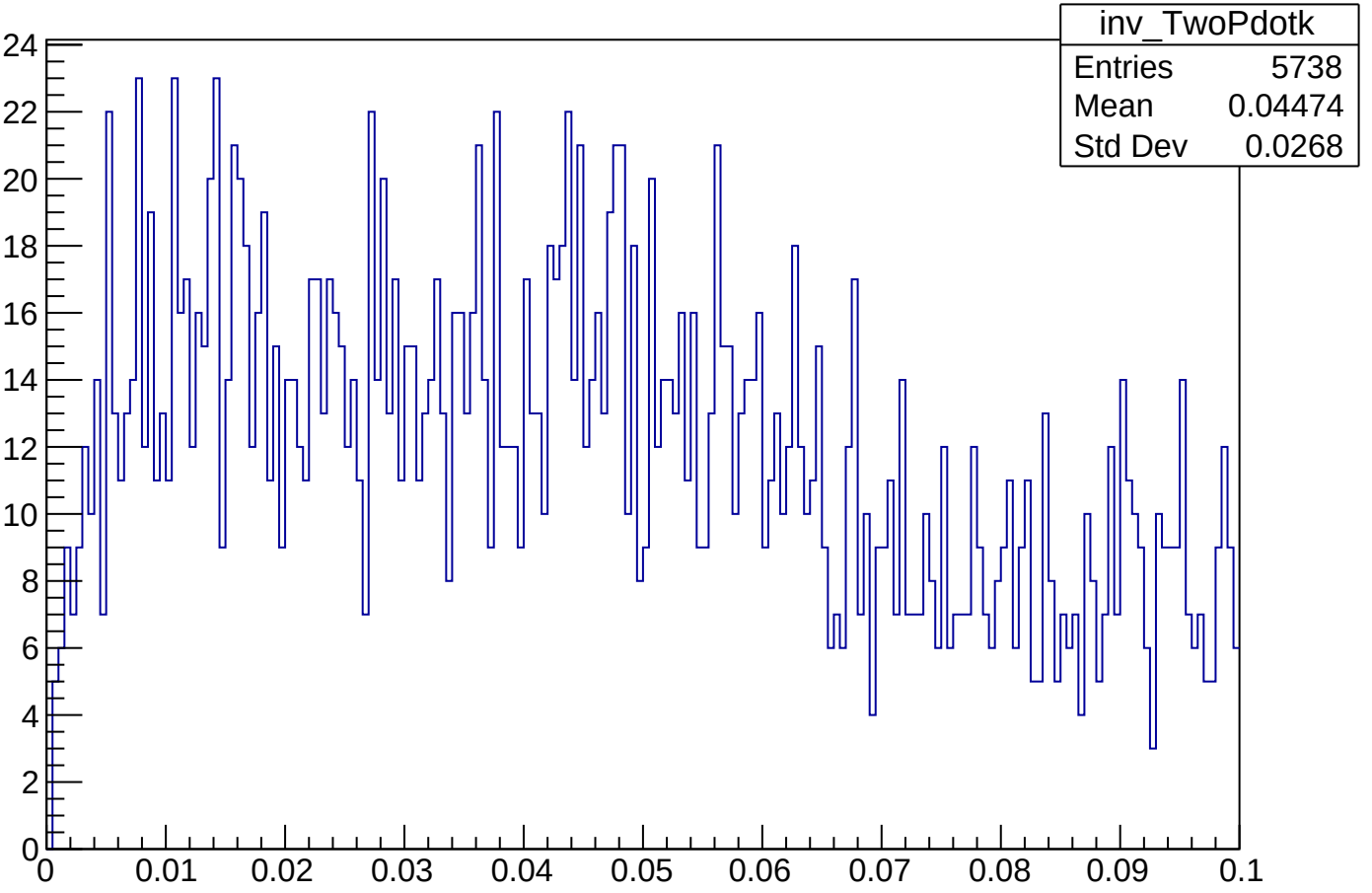

inv_xBj
Entries 5738
Mean 0.2492
Std Dev 0.2569
180
160
140
120
100
80
60
40
20
0
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1

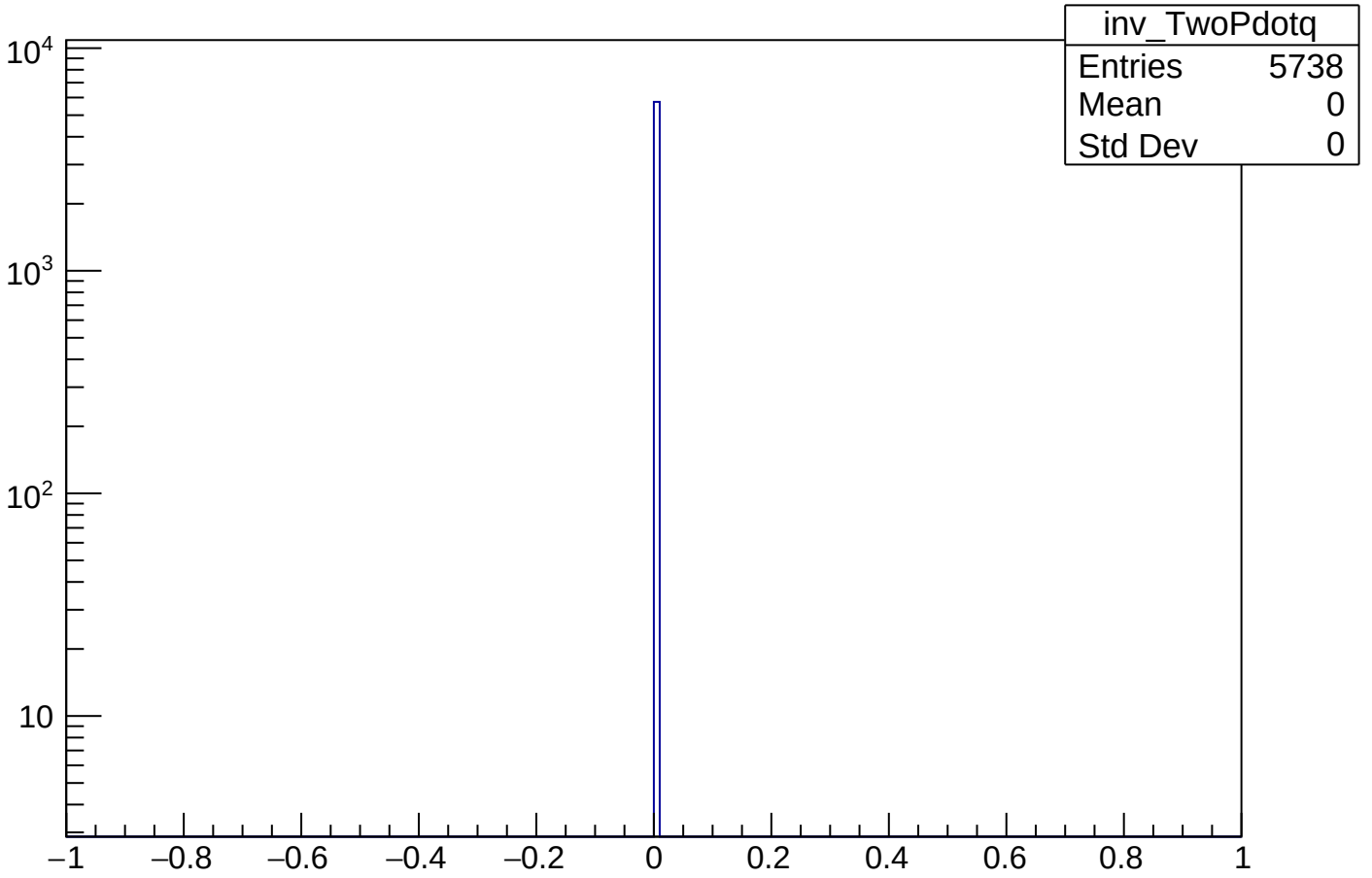

inv_nu
Entries 5738
Mean 45.29
Std Dev 26.69
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60
70
80
90
100

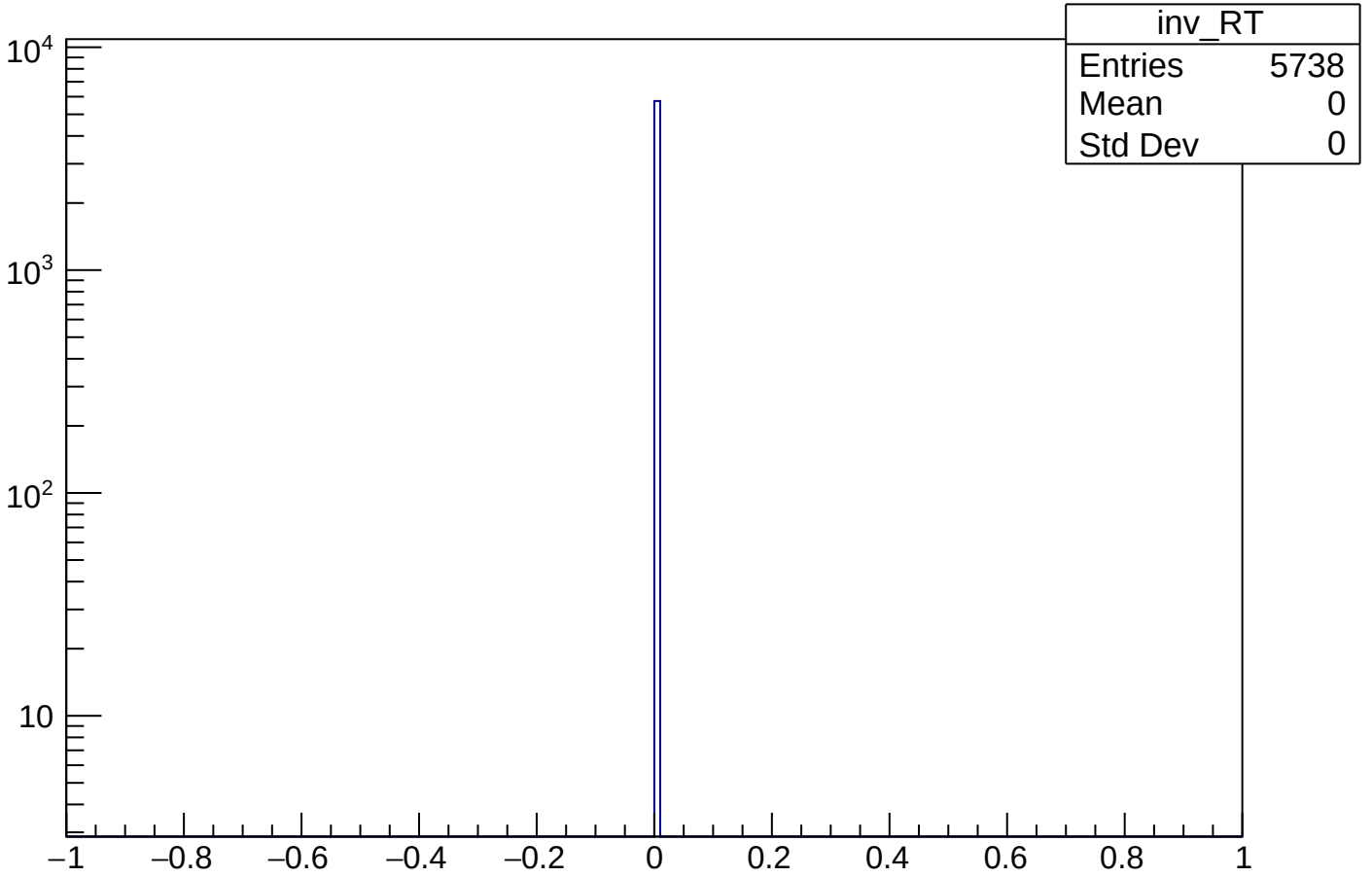

inv_W
Entries 5738
Mean 36.78
Std Dev 27.77
60
50
40
30
20
10
0
–100
–80
–60
–40
–20
0
20
40
60
80
100

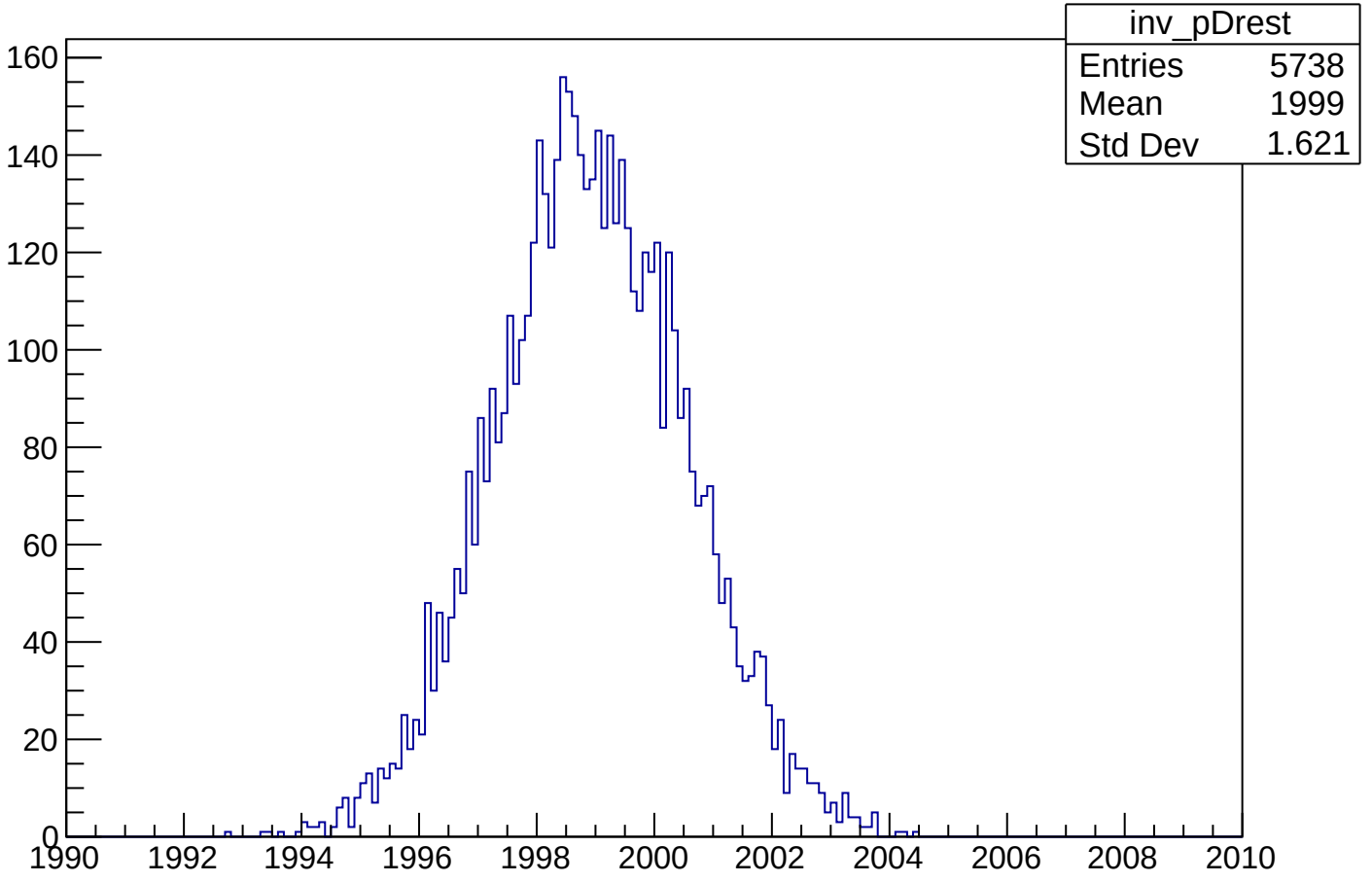

inv_tSpectator
Entries 5738
Mean 1.047e−12
Std Dev 1.048e−12
10^4
10^3
10^2
10
−1
−0.8
−0.6
−0.4
−0.2
0
0.2
0.4
0.6
0.8
1

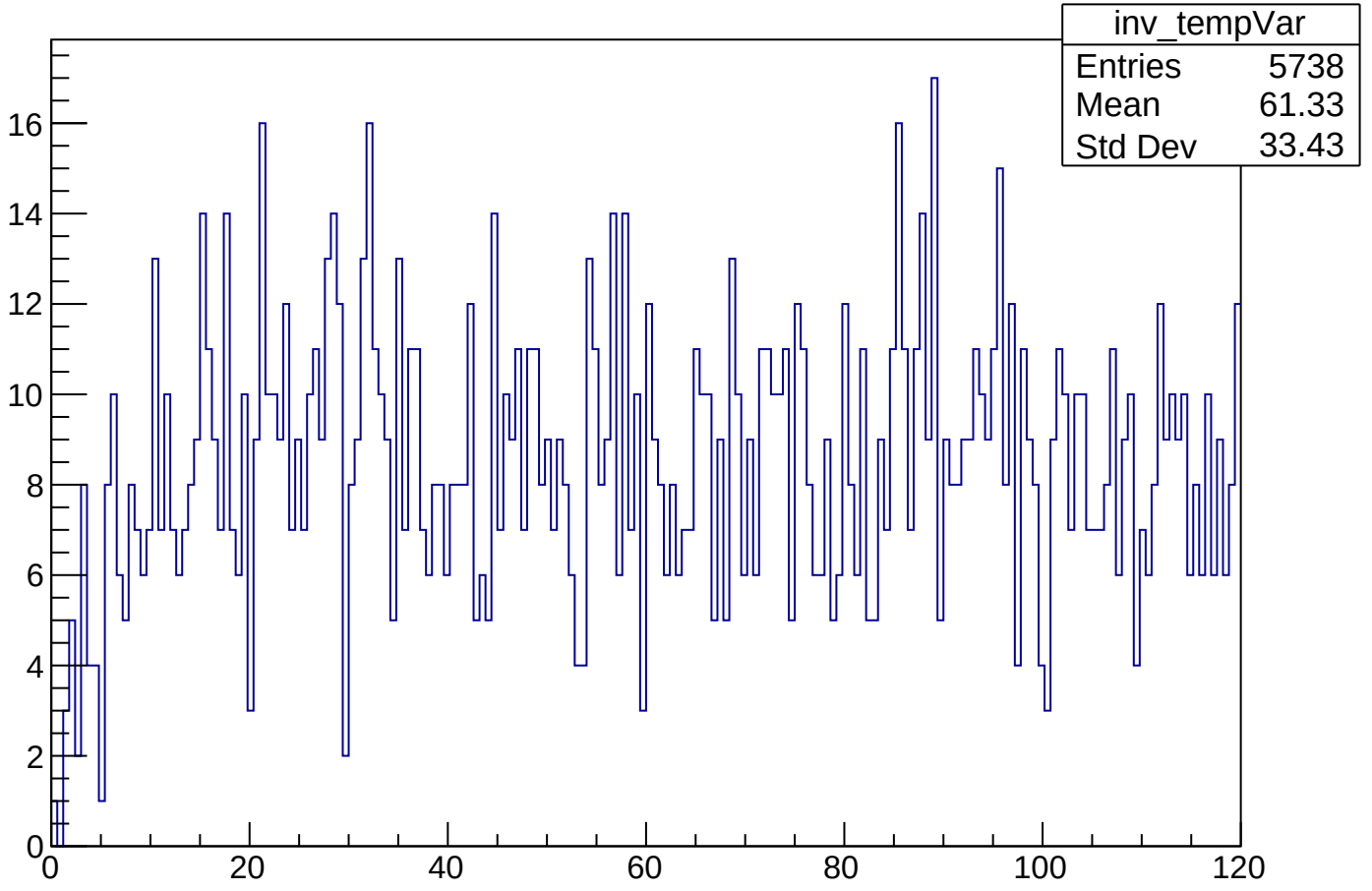

inv_tPrime
Entries 5738
Mean 0.2492
Std Dev 0.2569
450
400
350
300
250
200
150
100
50
0
0
0.5
1
1.5
2
2.5
3

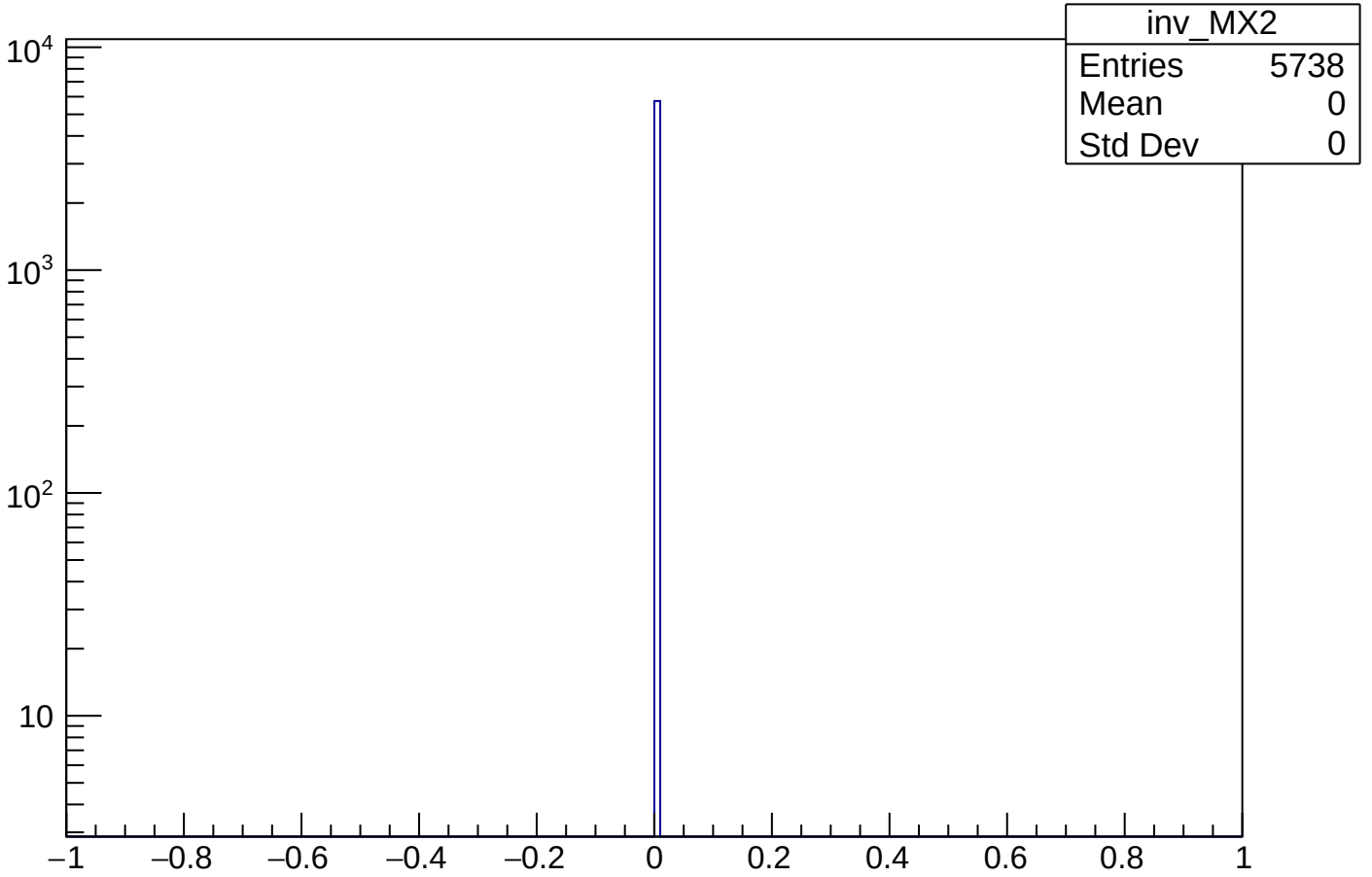

inv_TwoPdotk
Entries 5738
Mean 0.04474
Std Dev 0.0268
24
22
20
18
16
14
12
10
8
6
4
2
0
0
0.01
0.02
0.03
0.04
0.05
0.06
0.07
0.08
0.09
0.1

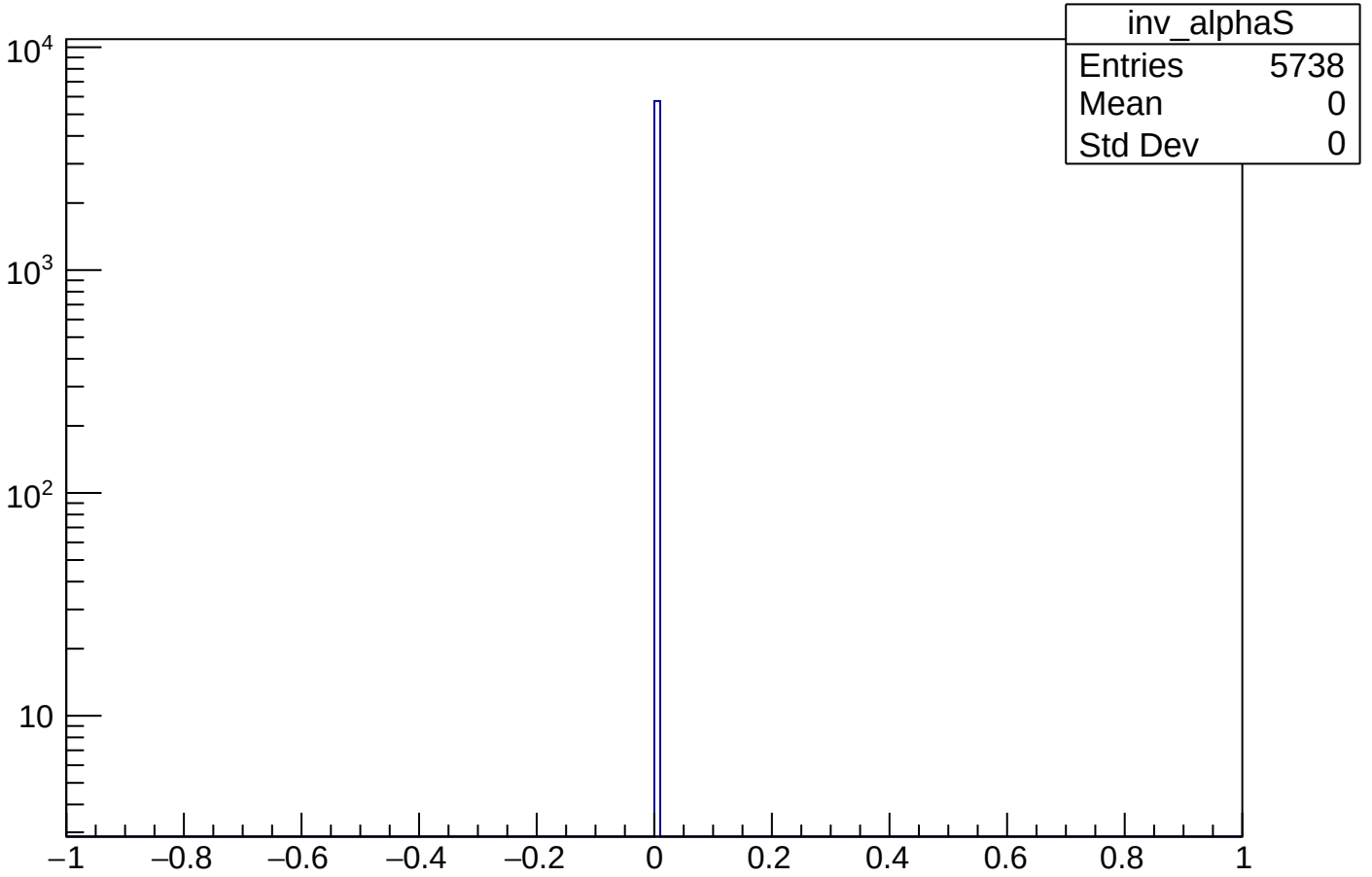

inv_TwoPdotq
Entries 5738
Mean 0
Std Dev 0
10^4
10^3
10^2
10
−1
−0.8
−0.6
−0.4
−0.2
0
0.2
0.4
0.6
0.8
1

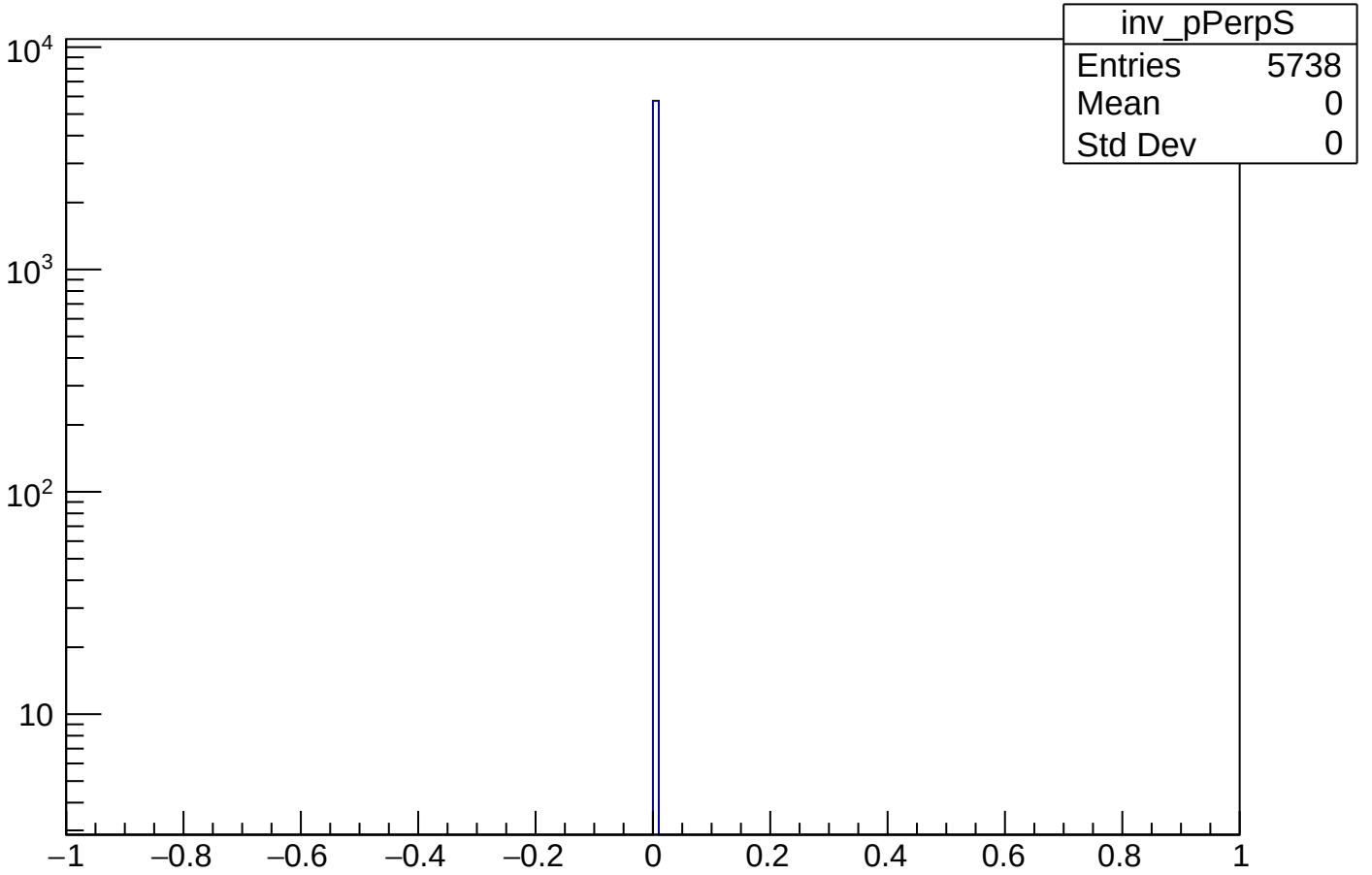

inv_RT
Entries 5738
Mean 0
Std Dev 0
10^4
10^3
10^2
10
−1
−0.8
−0.6
−0.4
−0.2
0
0.2
0.4
0.6
0.8
1

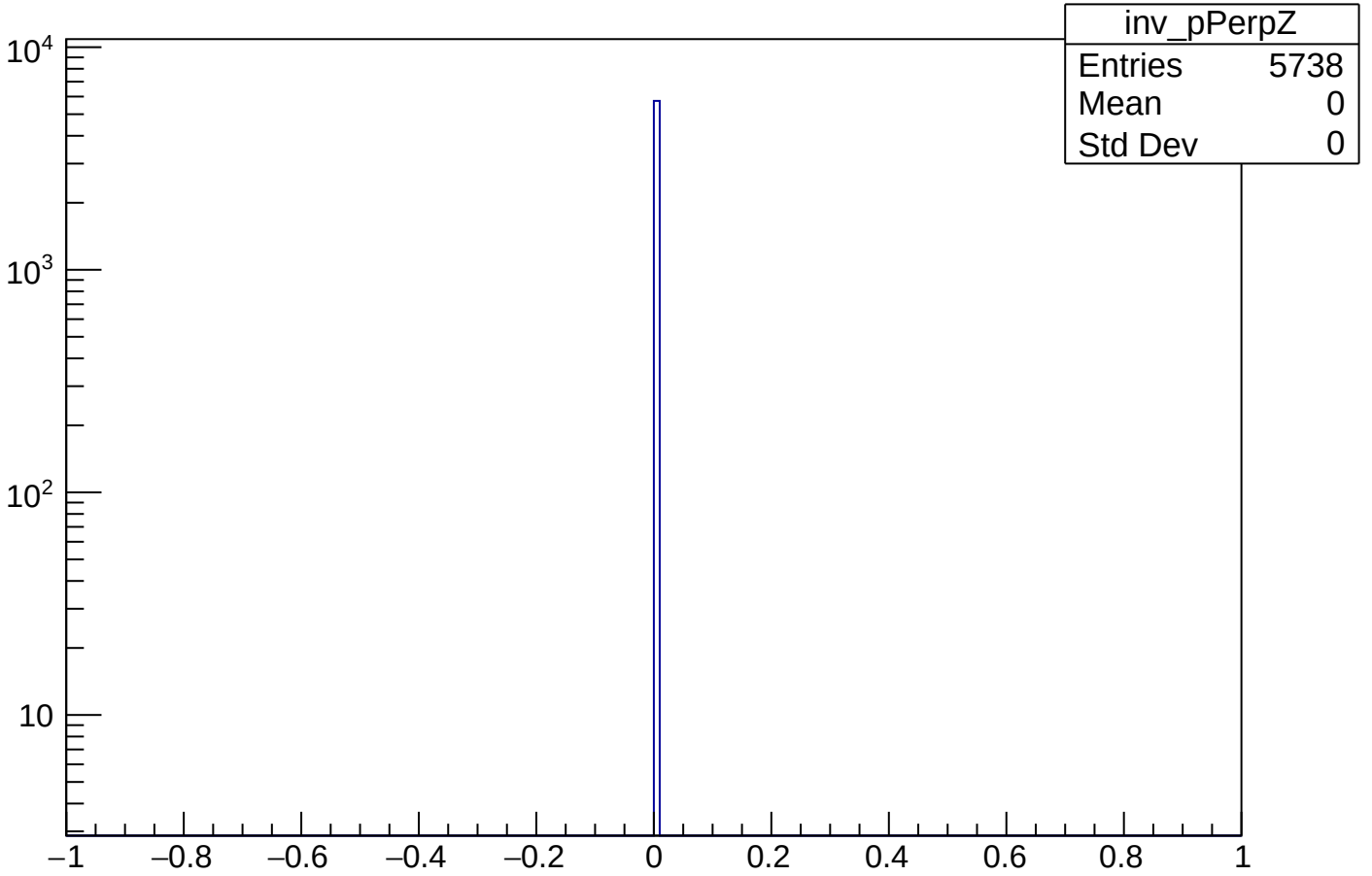

inv_pDrest
Entries 5738
Mean 1999
Std Dev 1.621
160
140
120
100
80
60
40
20
0
1990
1992
1994
1996
1998
2000
2002
2004
2006
2008
2010

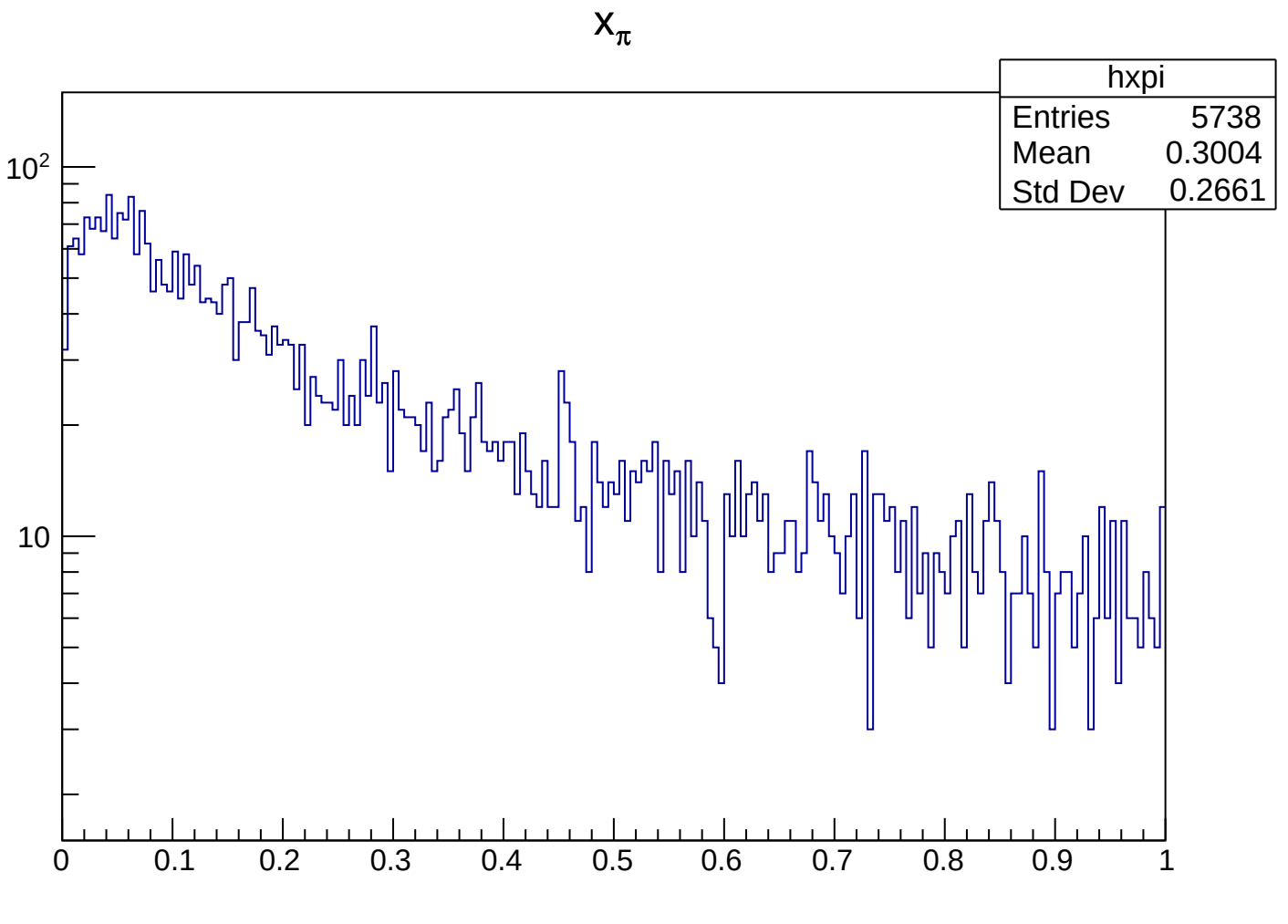

inv_tempVar
Entries 5738
Mean 61.33
Std Dev 33.43
0
2
4
6
8
10
12
14
16
0
20
40
60
80
100
120

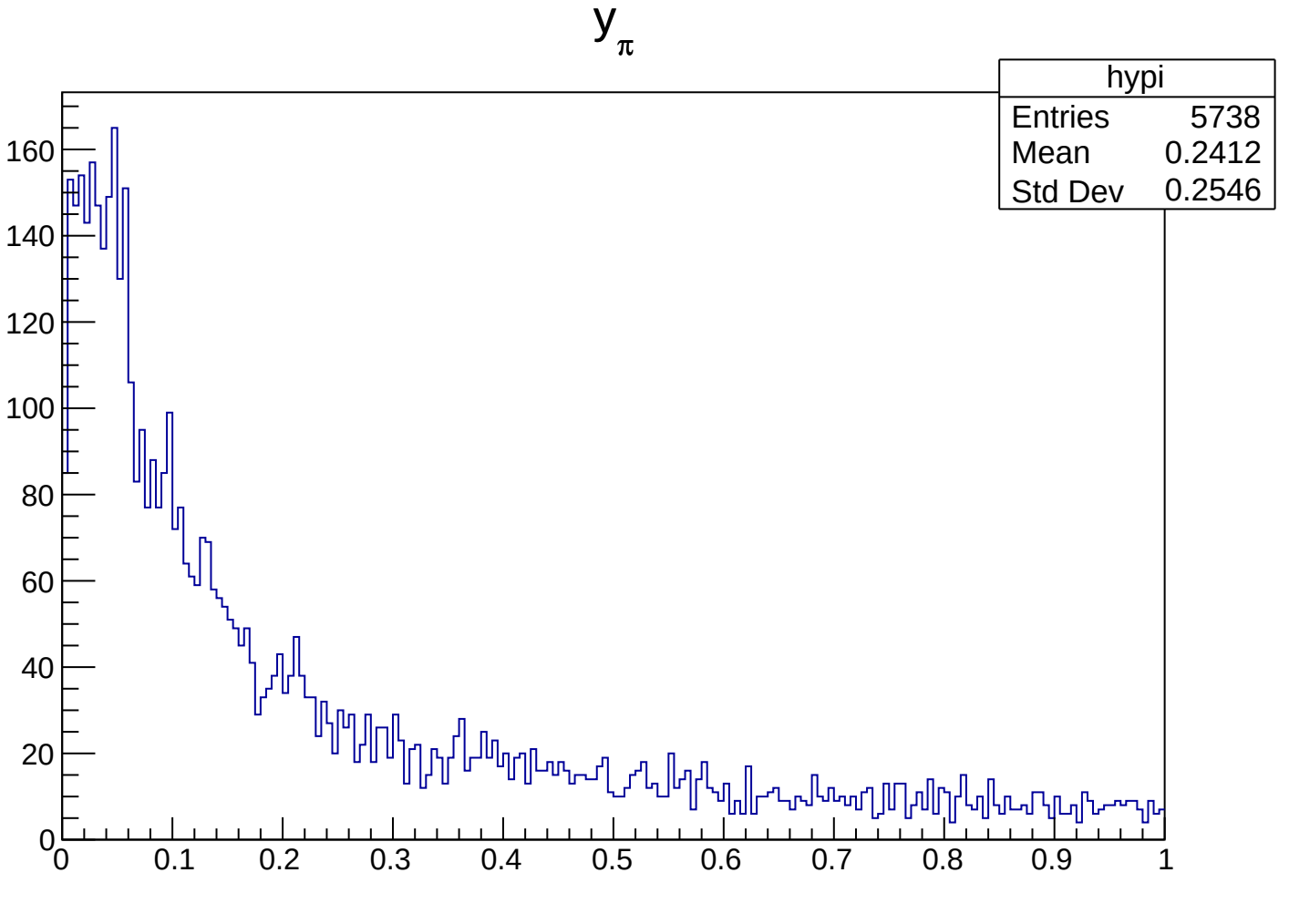

inv_MX2
Entries 5738
Mean 0
Std Dev 0
10^4
10^3
10^2
10
−1
−0.8
−0.6
−0.4
−0.2
0
0.2
0.4
0.6
0.8
1

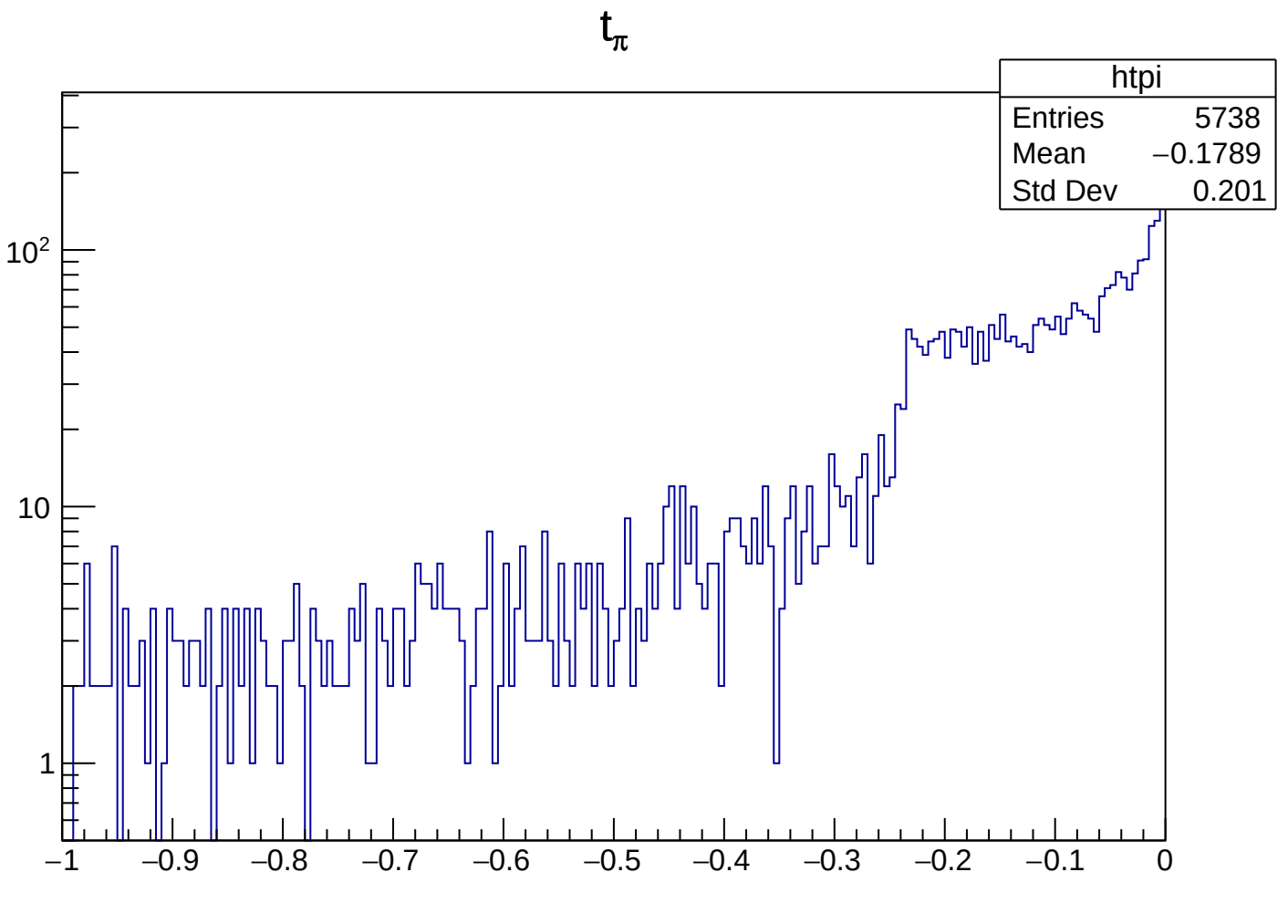

inv_alphaS
Entries 5738
Mean 0
Std Dev 0
10^4
10^3
10^2
10
−1
−0.8
−0.6
−0.4
−0.2
0
0.2
0.4
0.6
0.8
1

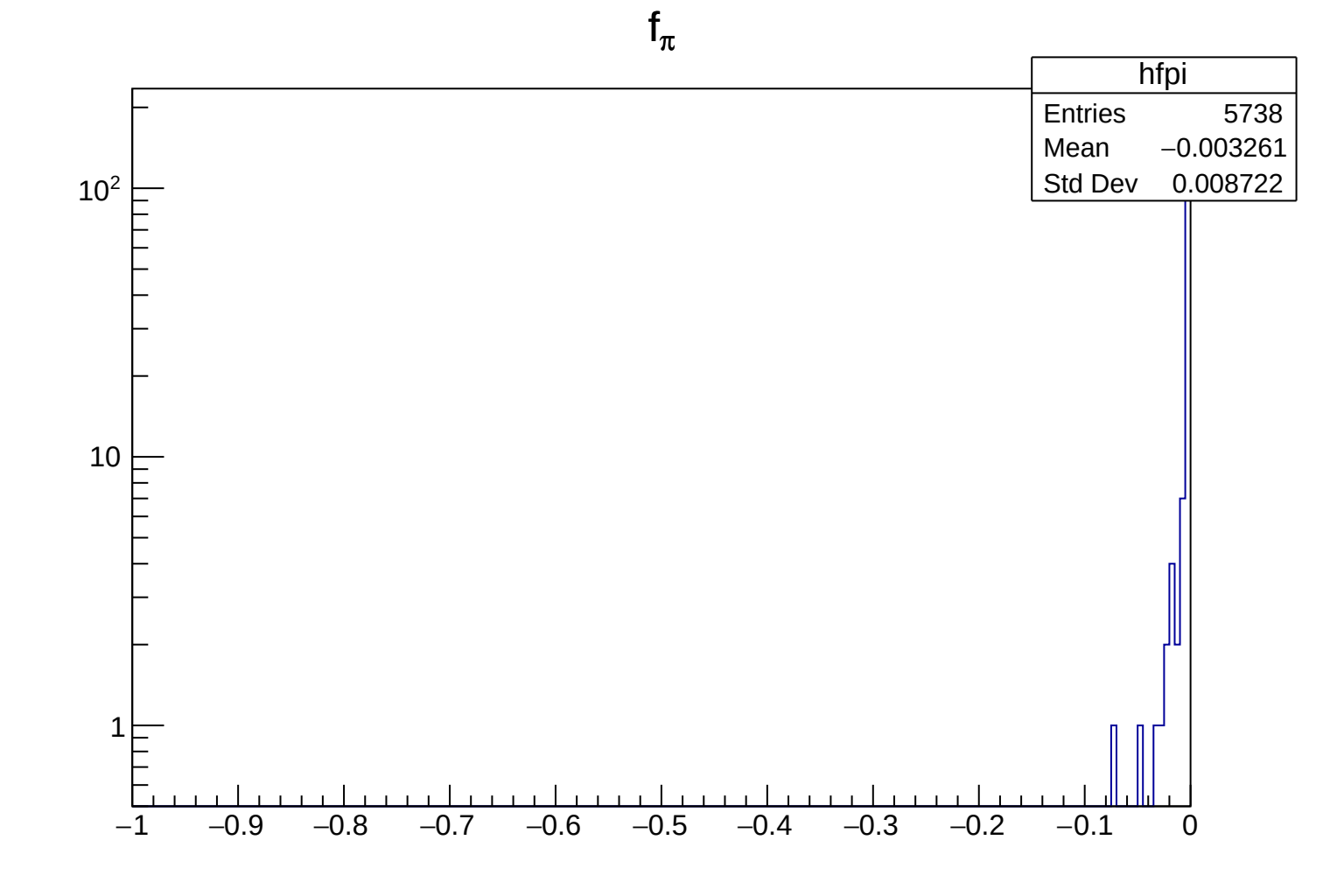

inv_pPerpS
Entries 5738
Mean 0
Std Dev 0
10^4
10^3
10^2
10
−1
−0.8
−0.6
−0.4
−0.2
0
0.2
0.4
0.6
0.8
1

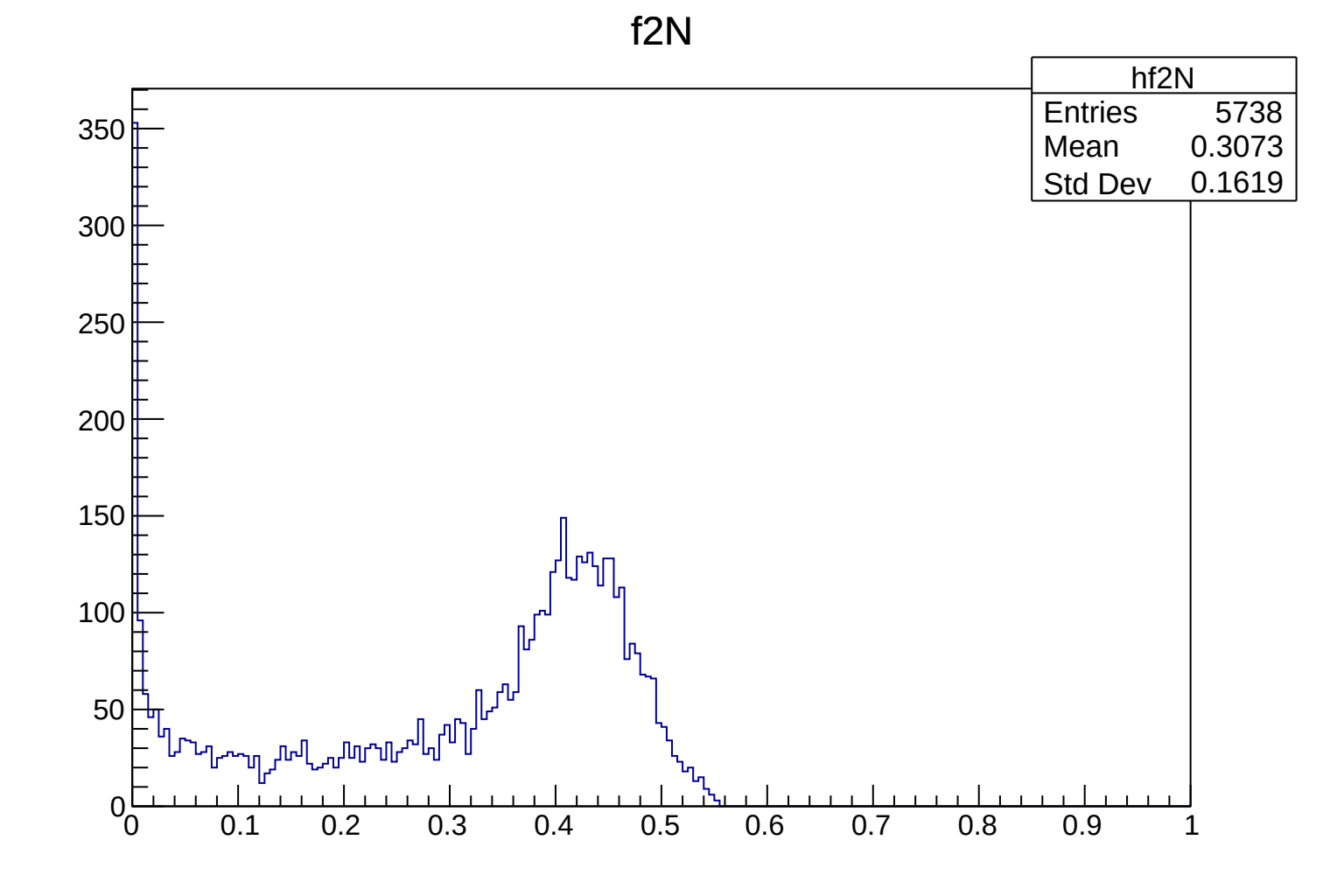

inv_pPerpZ
Entries 5738
Mean 0
Std Dev 0
10^4
10^3
10^2
10
−1
−0.8
−0.6
−0.4
−0.2
0
0.2
0.4
0.6
0.8
1

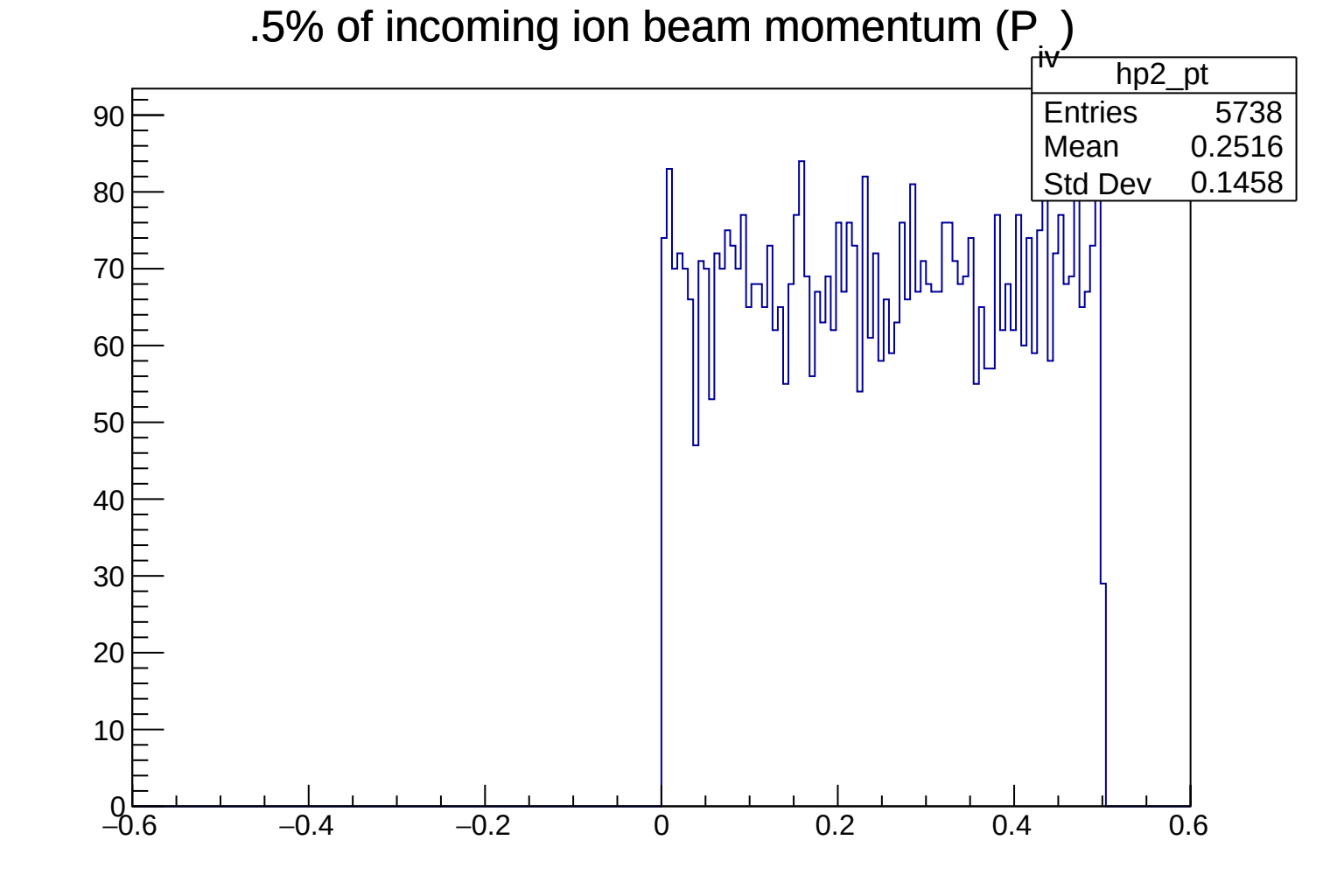

x_π
hxpi
Entries 5738
Mean 0.3004
Std Dev 0.2661
10^2
10
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1

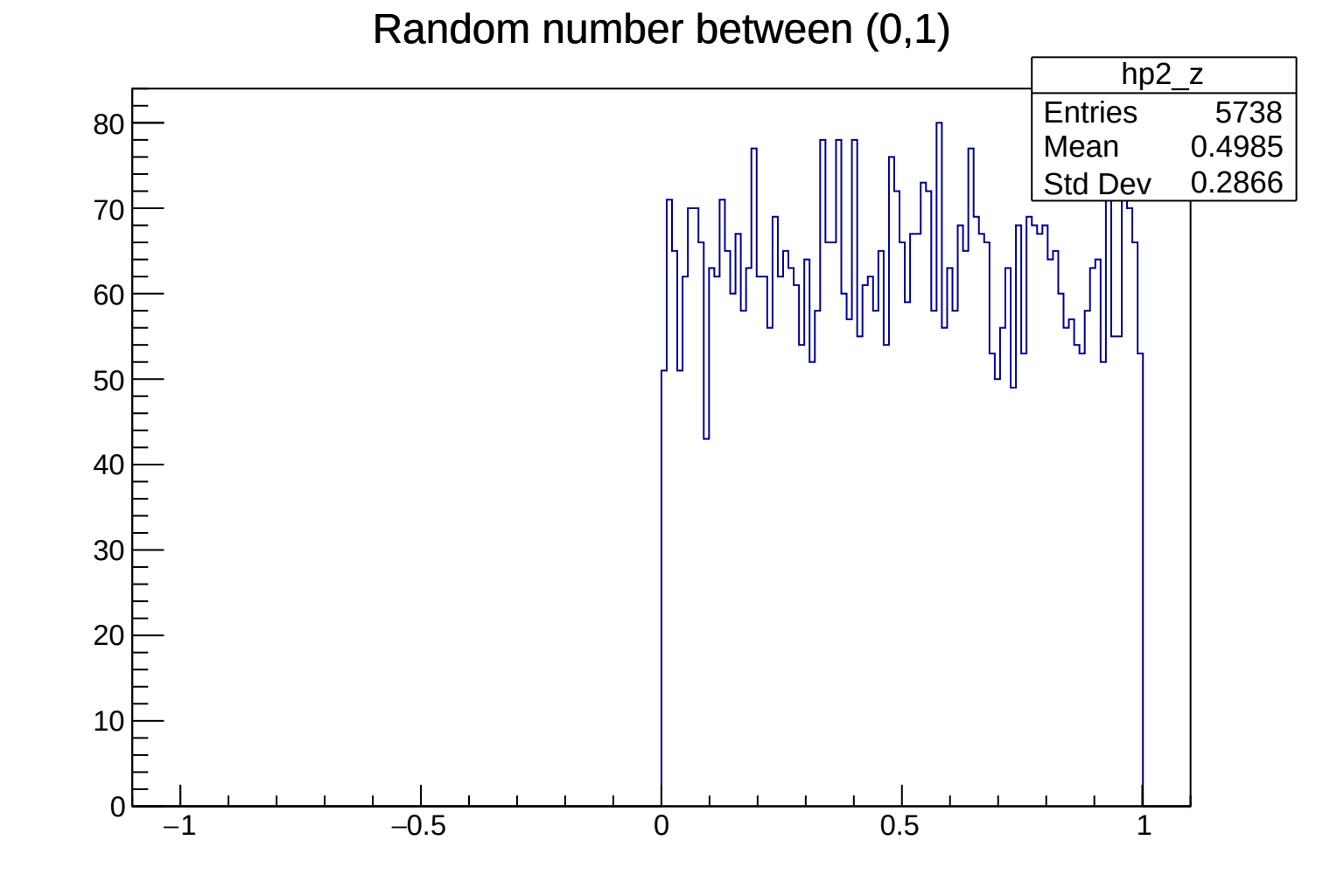

y_π
hypi
Entries 5738
Mean 0.2412
Std Dev 0.2546
160
140
120
100
80
60
40
20
0
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1

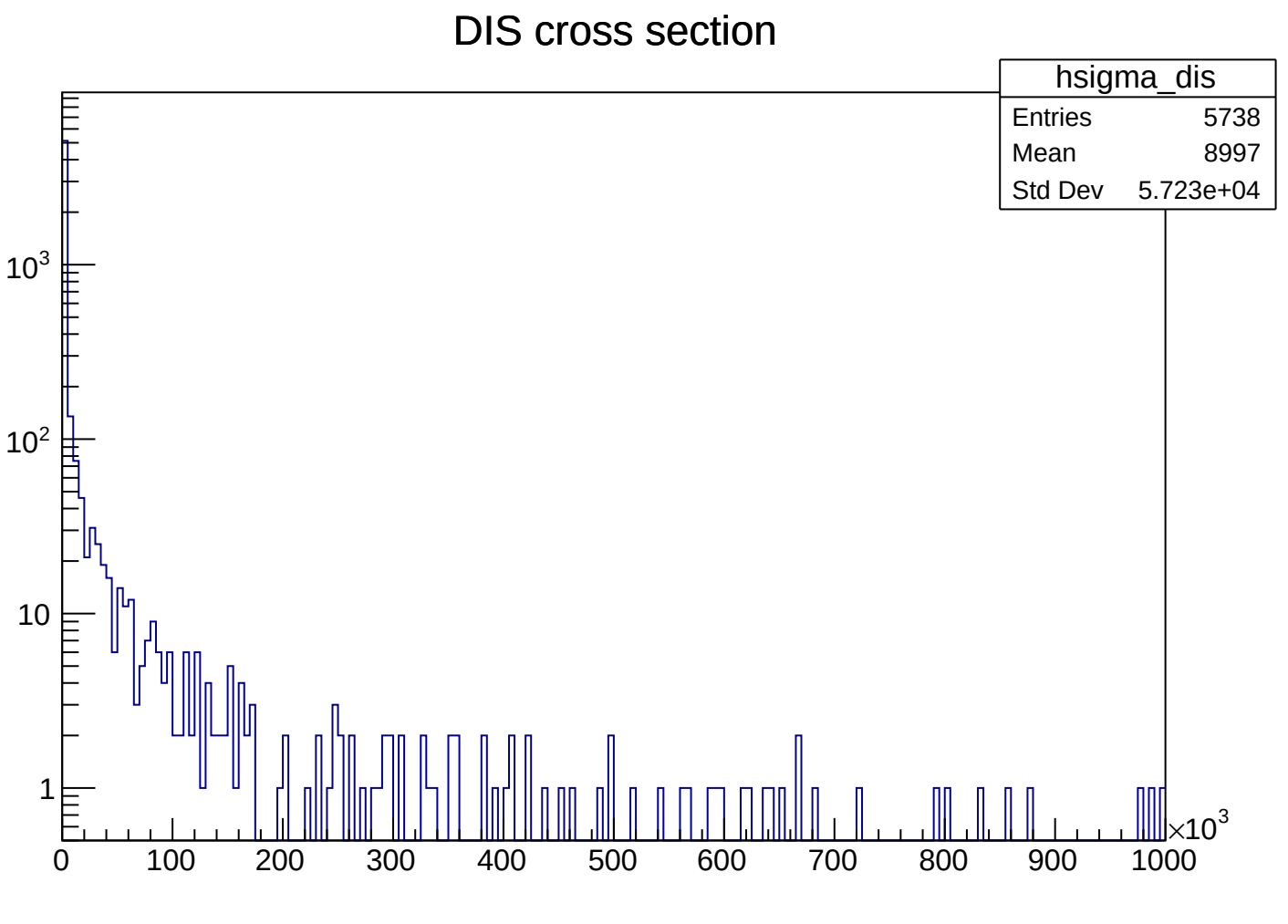

t_π
htpi
Entries 5738
Mean −0.1789
Std Dev 0.201
10^2
10
1
−1
−0.9
−0.8
−0.7
−0.6
−0.5
−0.4
−0.3
−0.2
−0.1
0

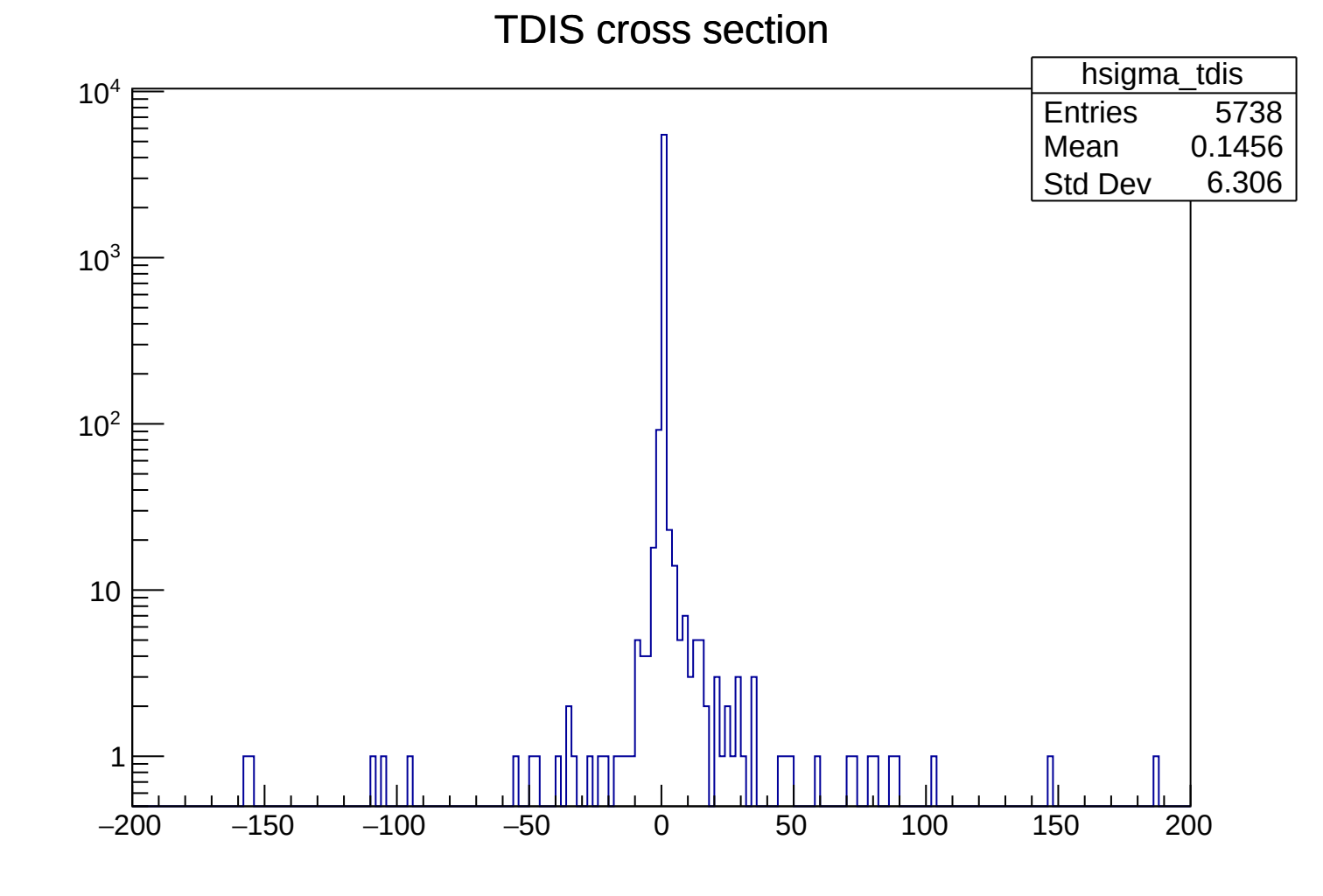

f_π
hfpi
Entries 5738
Mean −0.003261
Std Dev 0.008722
10^2
10
1
−1
−0.9
−0.8
−0.7
−0.6
−0.5
−0.4
−0.3
−0.2
−0.1
0

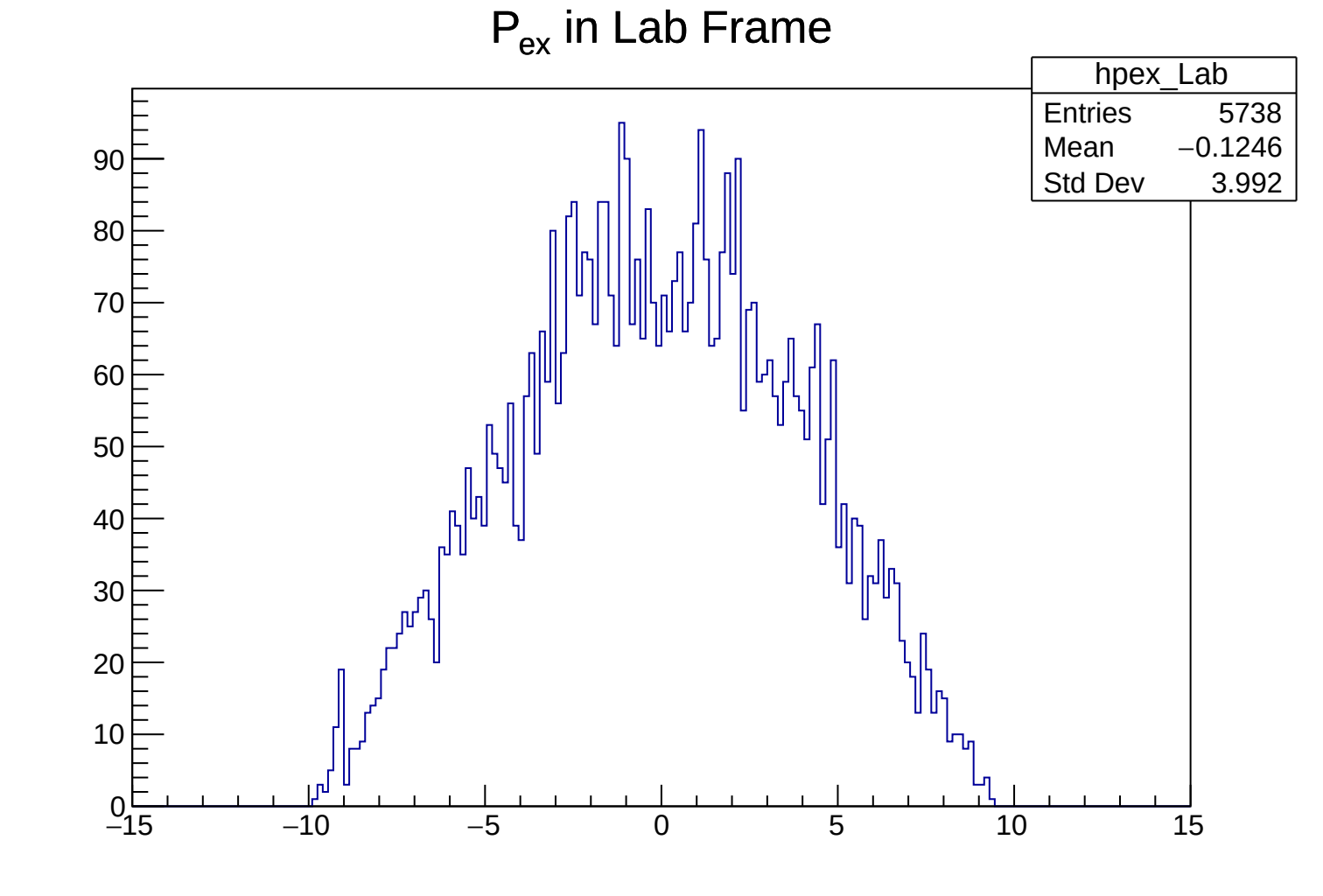

f2N
hf2N
Entries 5738
Mean 0.3073
Std Dev 0.1619
350
300
250
200
150
100
50
0
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1

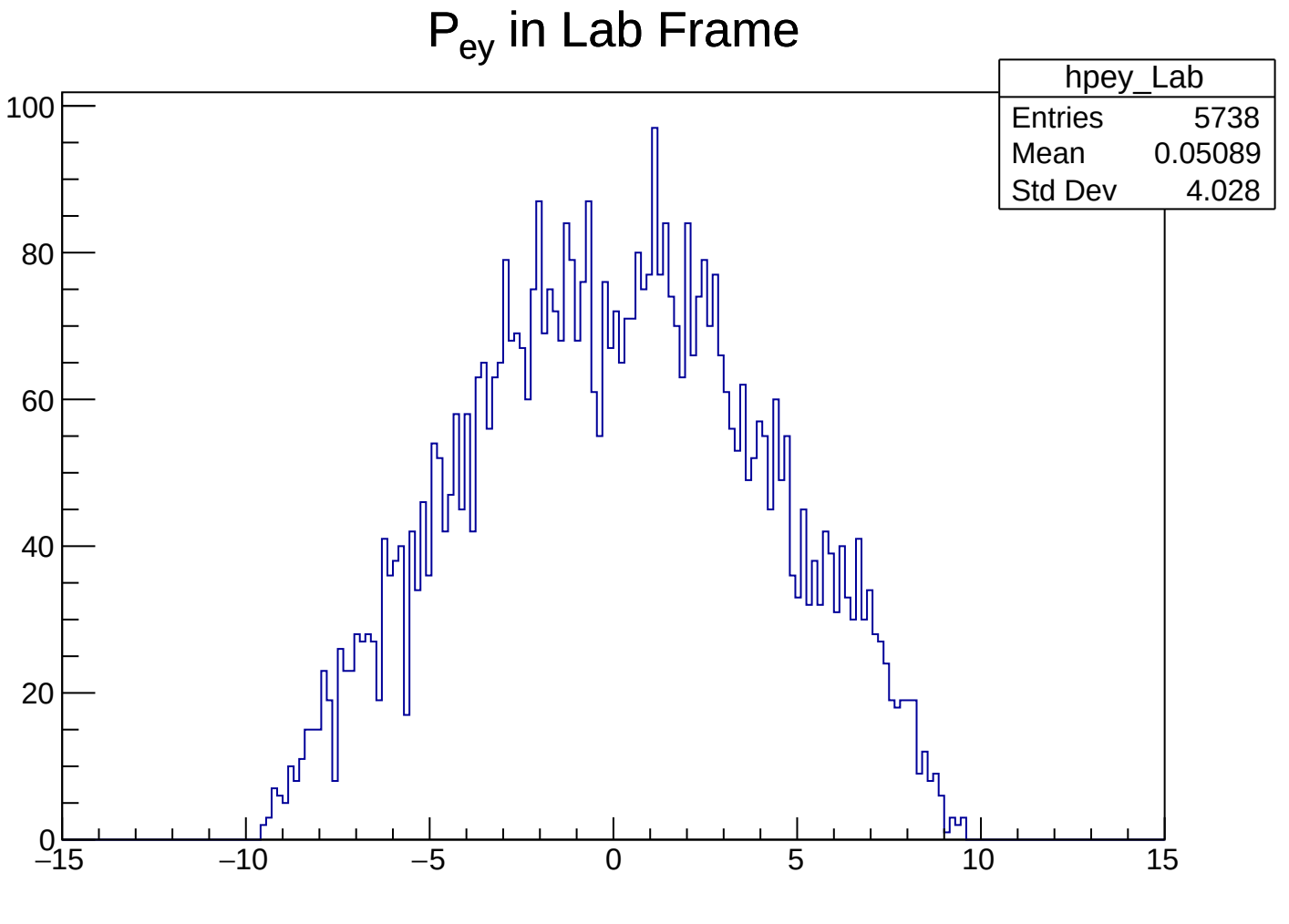

.5% of incoming ion beam momentum (P iv)
hp2_pt
Entries 5738
Mean 0.2516
Std Dev 0.1458
90
80
70
60
50
40
30
20
10
0
–0.6
–0.4
–0.2
0
0.2
0.4
0.6

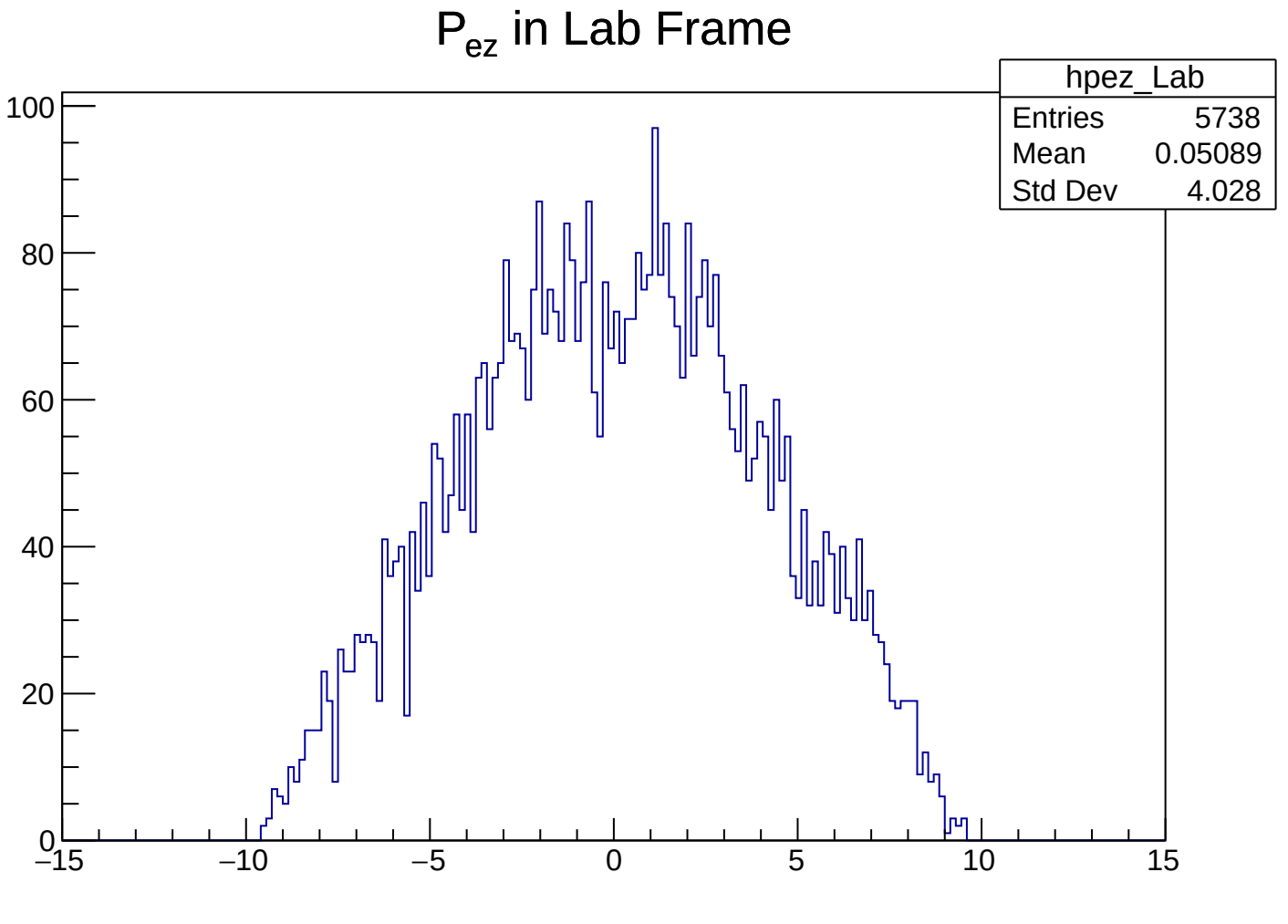

Random number between (0,1)
hp2_z
Entries 5738
Mean 0.4985
Std Dev 0.2866
80
70
60
50
40
30
20
10
0
−1
−0.5
0
0.5
1

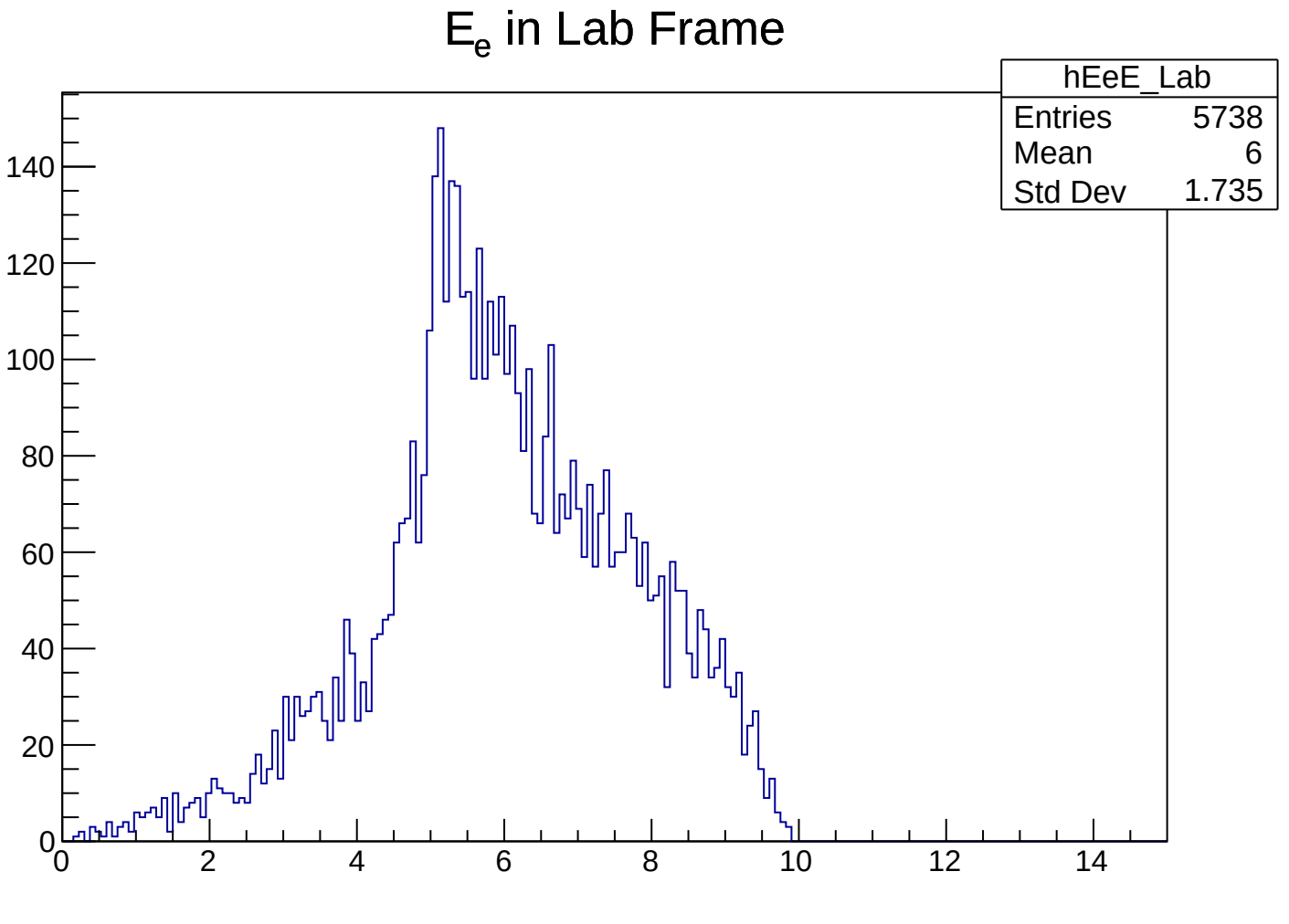

DIS cross section
hsigma_dis
Entries 5738
Mean 8997
Std Dev 5.723e+04
10^3
10^2
10
1
0
100
200
300
400
500
600
700
800
900
1000
$\times 10^3$

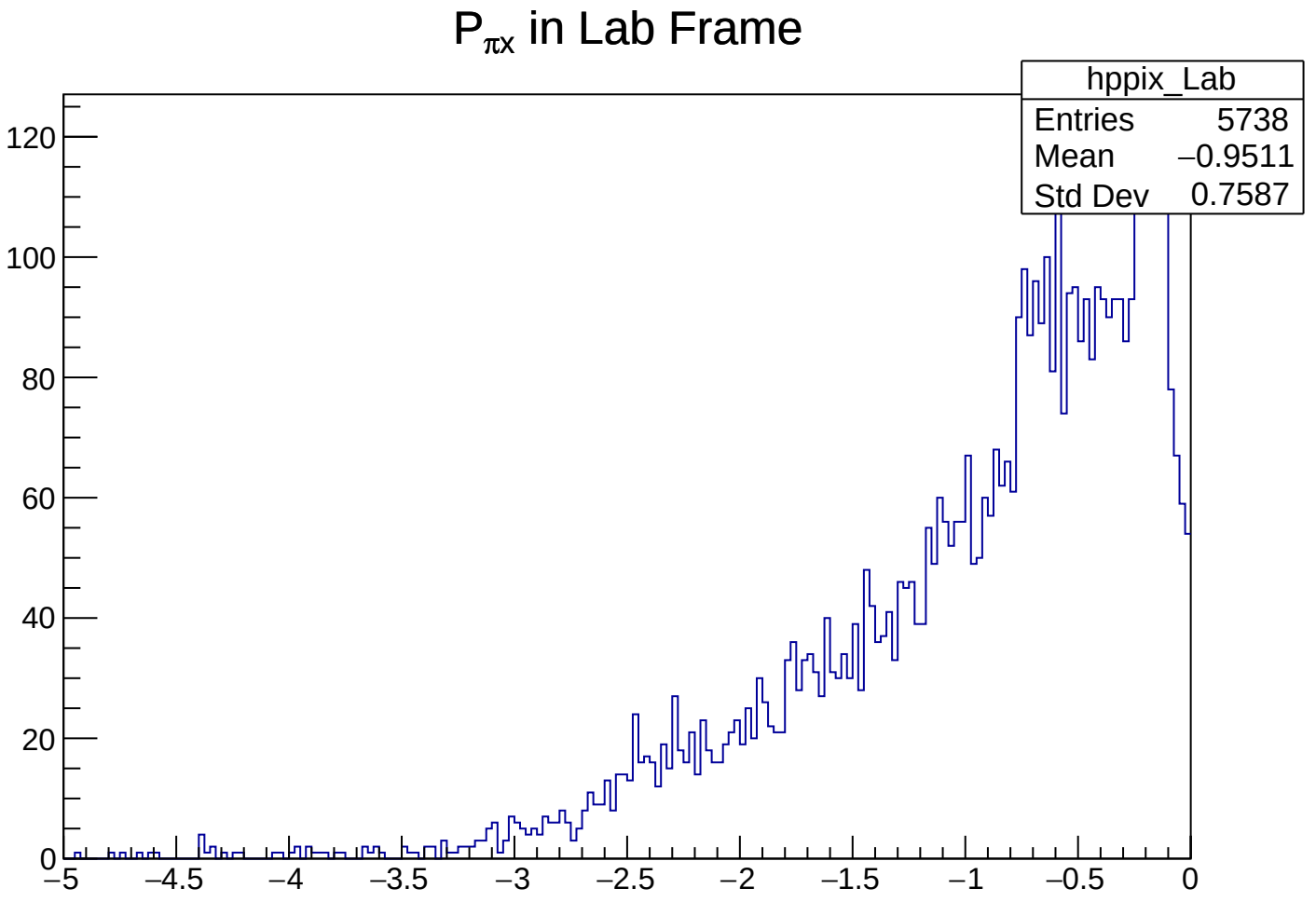

TDIS cross section
hsigma_tdis
Entries 5738
Mean 0.1456
Std Dev 6.306
10^4
10^3
10^2
10
1
−200
−150
−100
−50
0
50
100
150
200

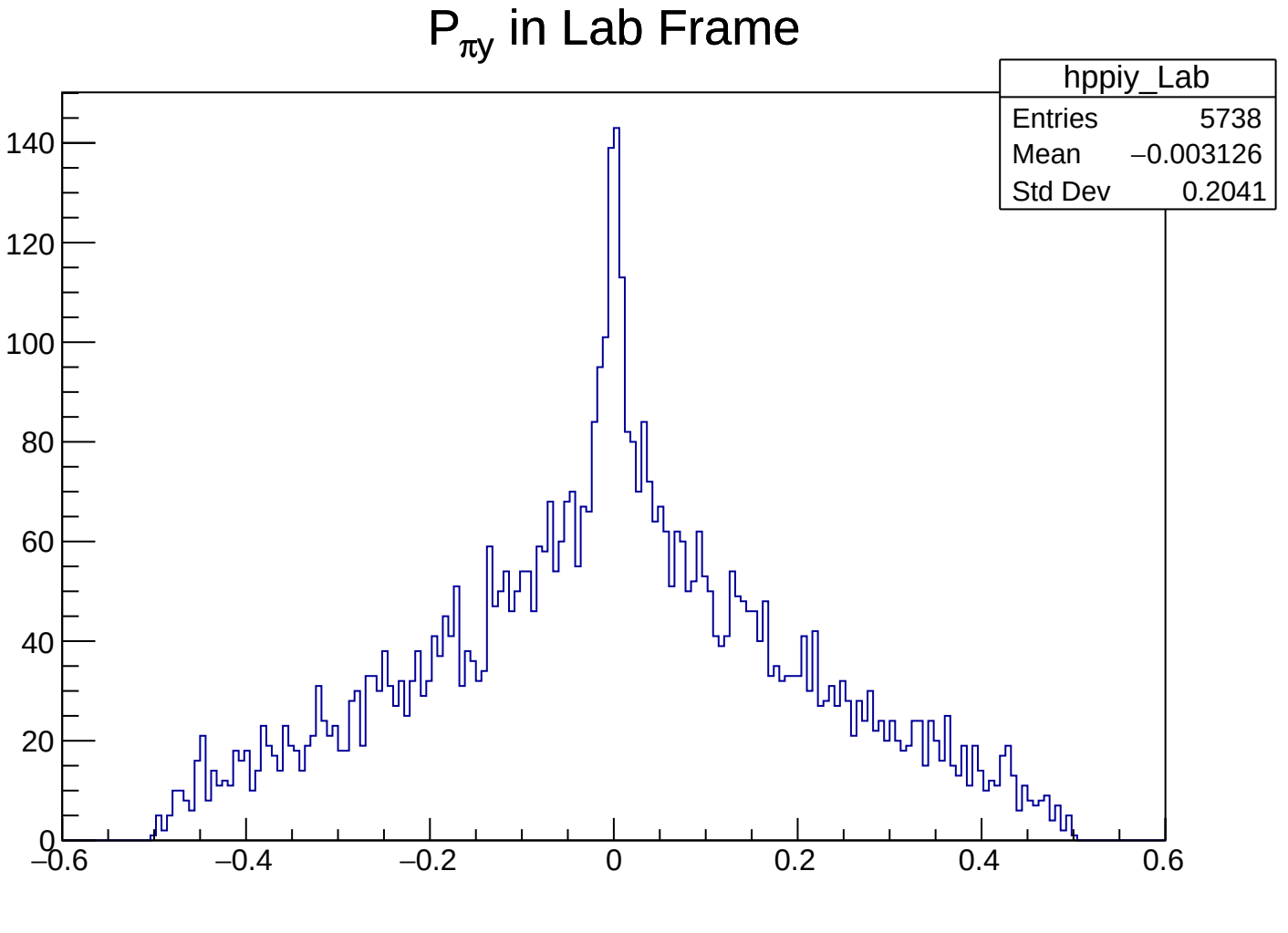

P_{ex} in Lab Frame
hpex_Lab
Entries 5738
Mean −0.1246
Std Dev 3.992
90
80
70
60
50
40
30
20
10
0
−15
−10
−5
0
5
10
15

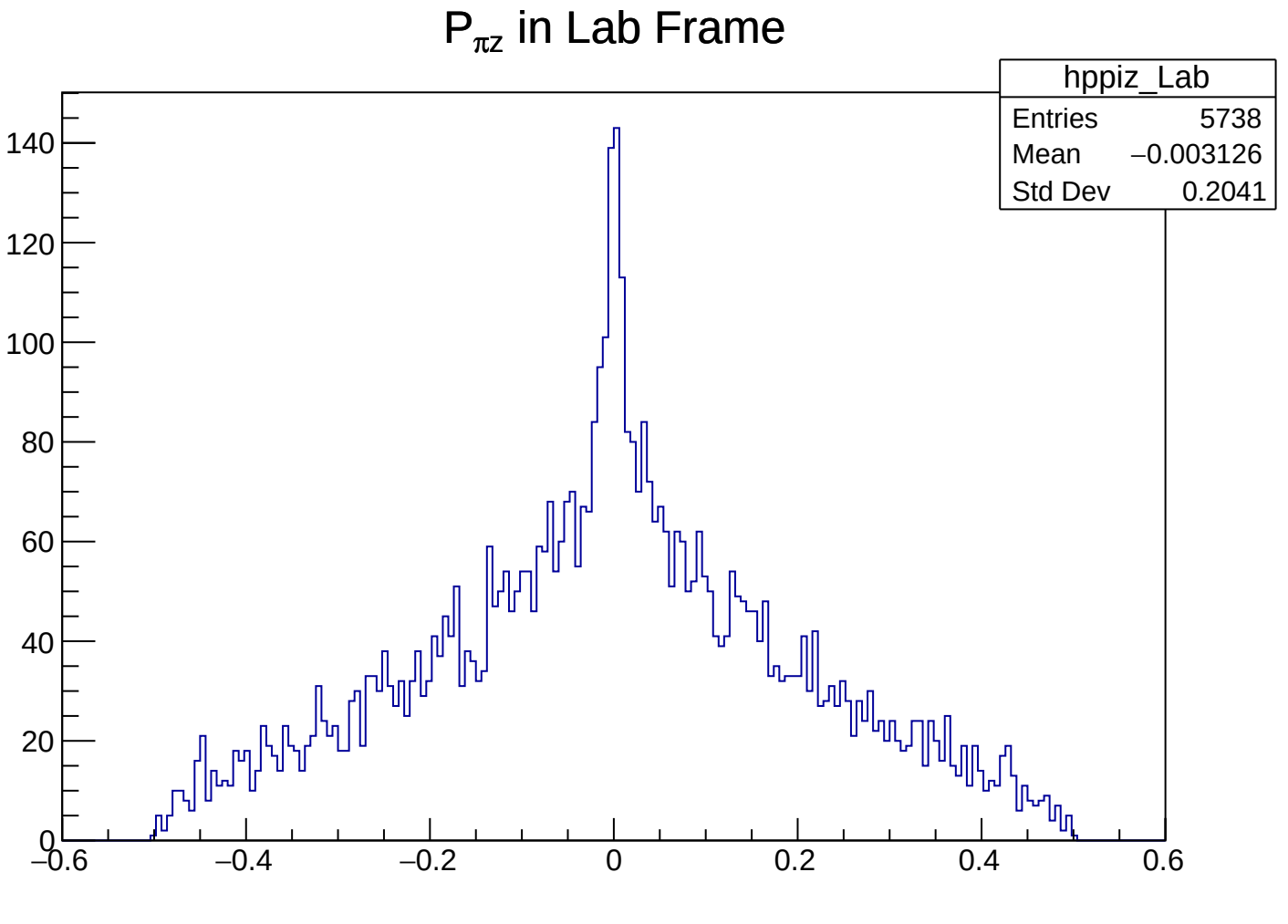

P_{ey} in Lab Frame
hpey_Lab
Entries 5738
Mean 0.05089
Std Dev 4.028
100
80
60
40
20
0
−15
−10
−5
0
5
10
15

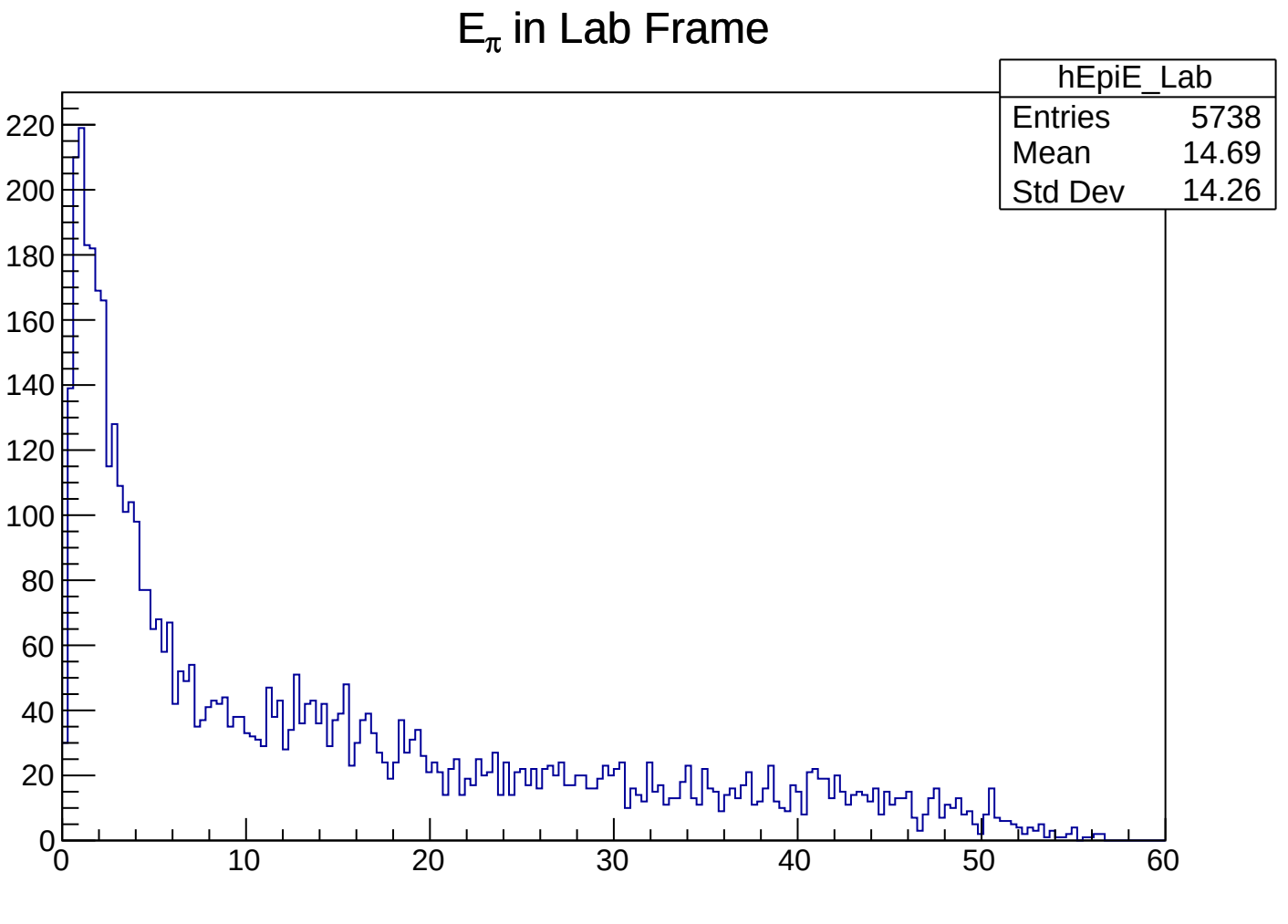

P_{ez} in Lab Frame
hpez_Lab
Entries 5738
Mean 0.05089
Std Dev 4.028
100
80
60
40
20
0
−15
−10
−5
0
5
10
15

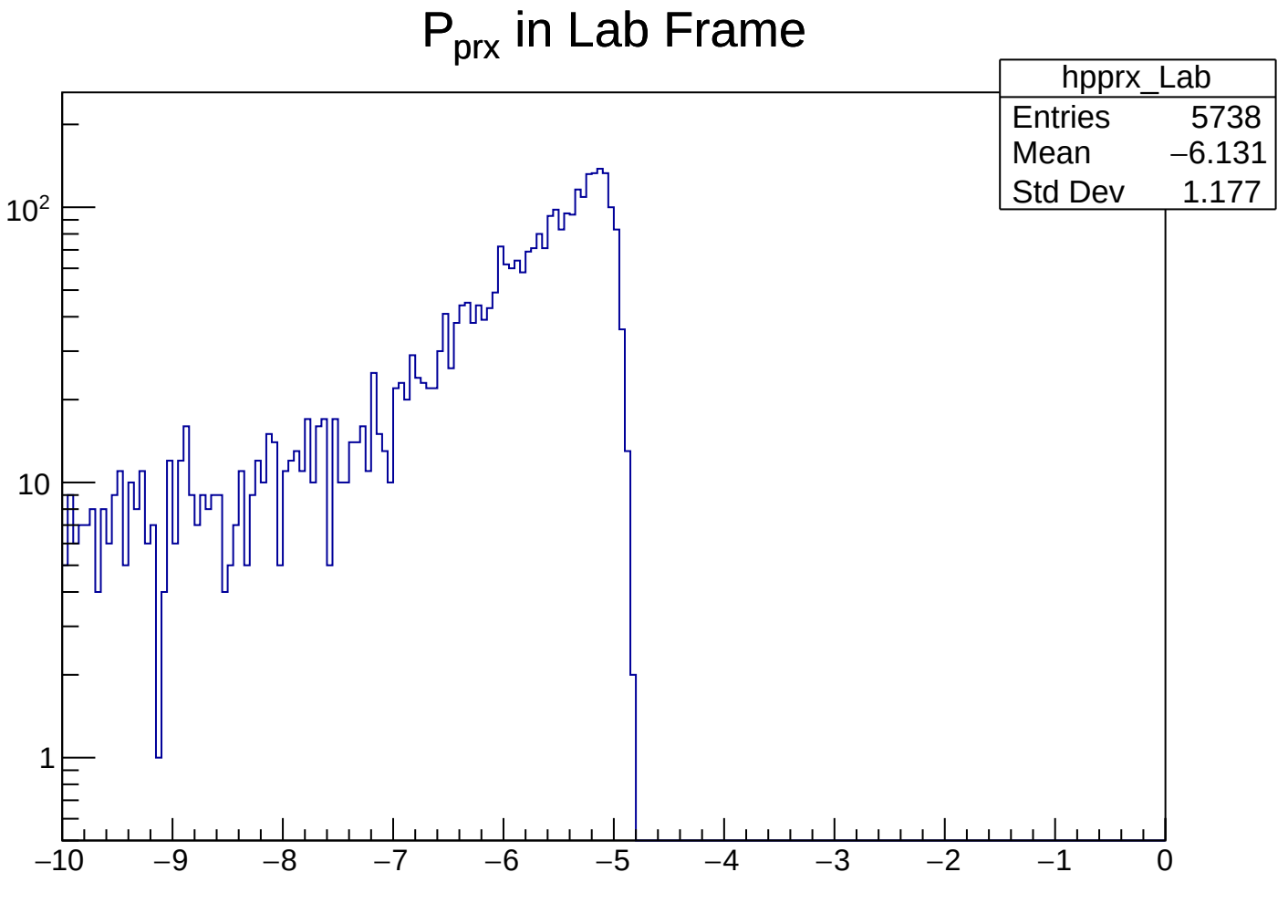

E_e in Lab Frame
hEeE_Lab
Entries 5738
Mean 6
Std Dev 1.735
0
20
40
60
80
100
120
140
0
2
4
6
8
10
12
14

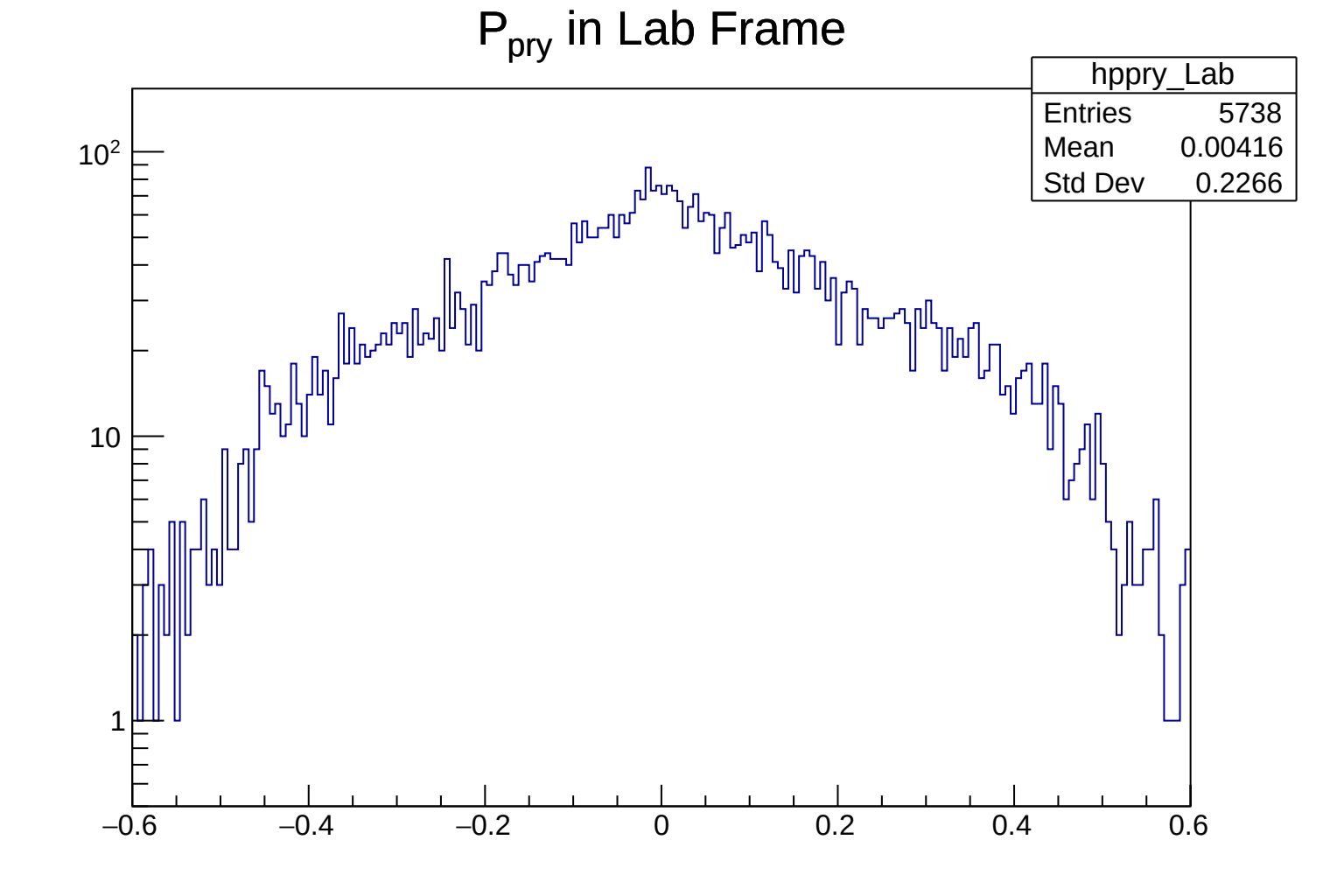

$P_{\pi x}$ in Lab Frame
hppix_Lab
Entries 5738
Mean −0.9511
Std Dev 0.7587
120
100
80
60
40
20
0
−5
−4.5
−4
−3.5
−3
−2.5
−2
−1.5
−1
−0.5
0

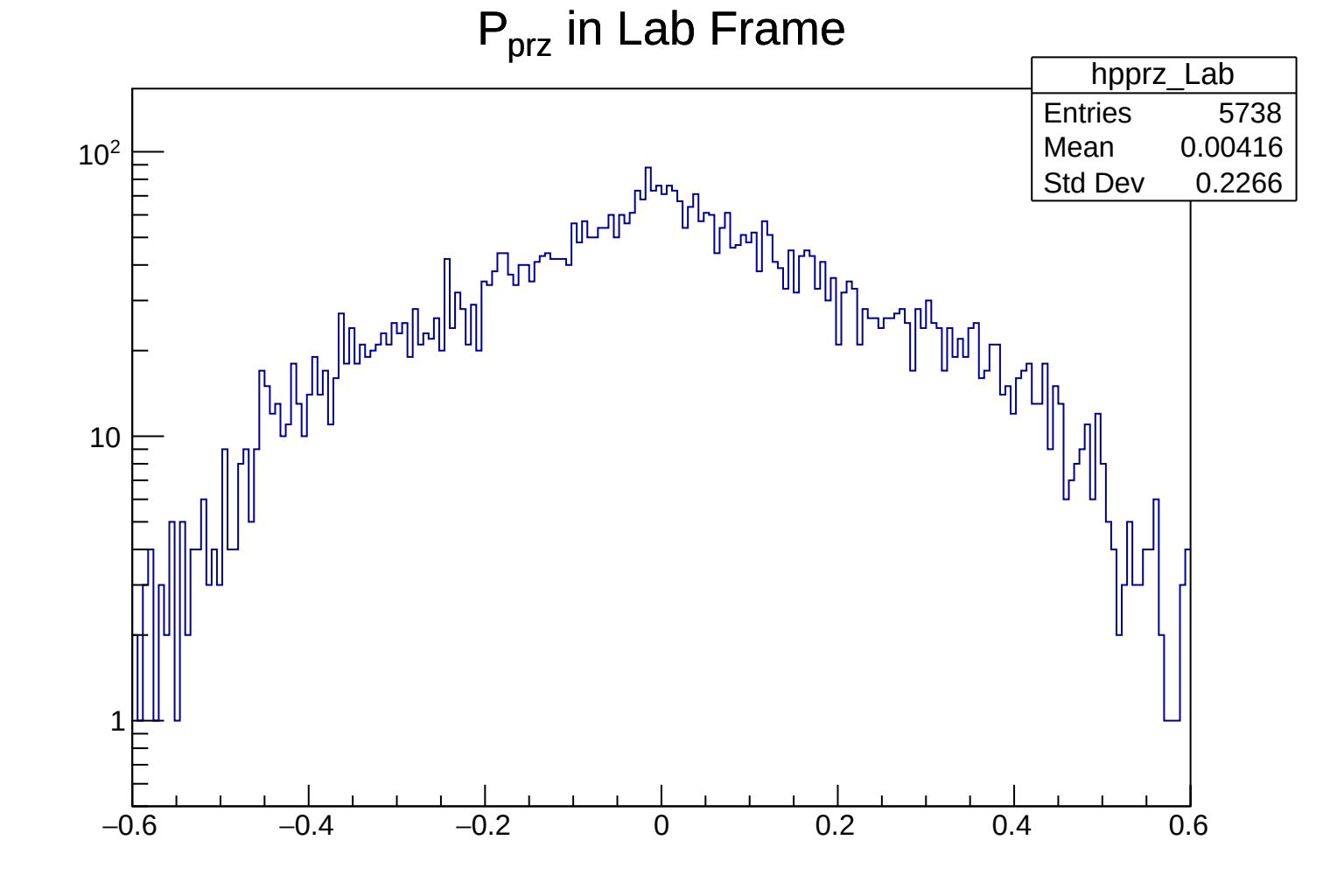

$P_{\pi y}$ in Lab Frame
hppiy_Lab
Entries 5738
Mean −0.003126
Std Dev 0.2041
140
120
100
80
60
40
20
0
−0.6
−0.4
−0.2
0
0.2
0.4
0.6

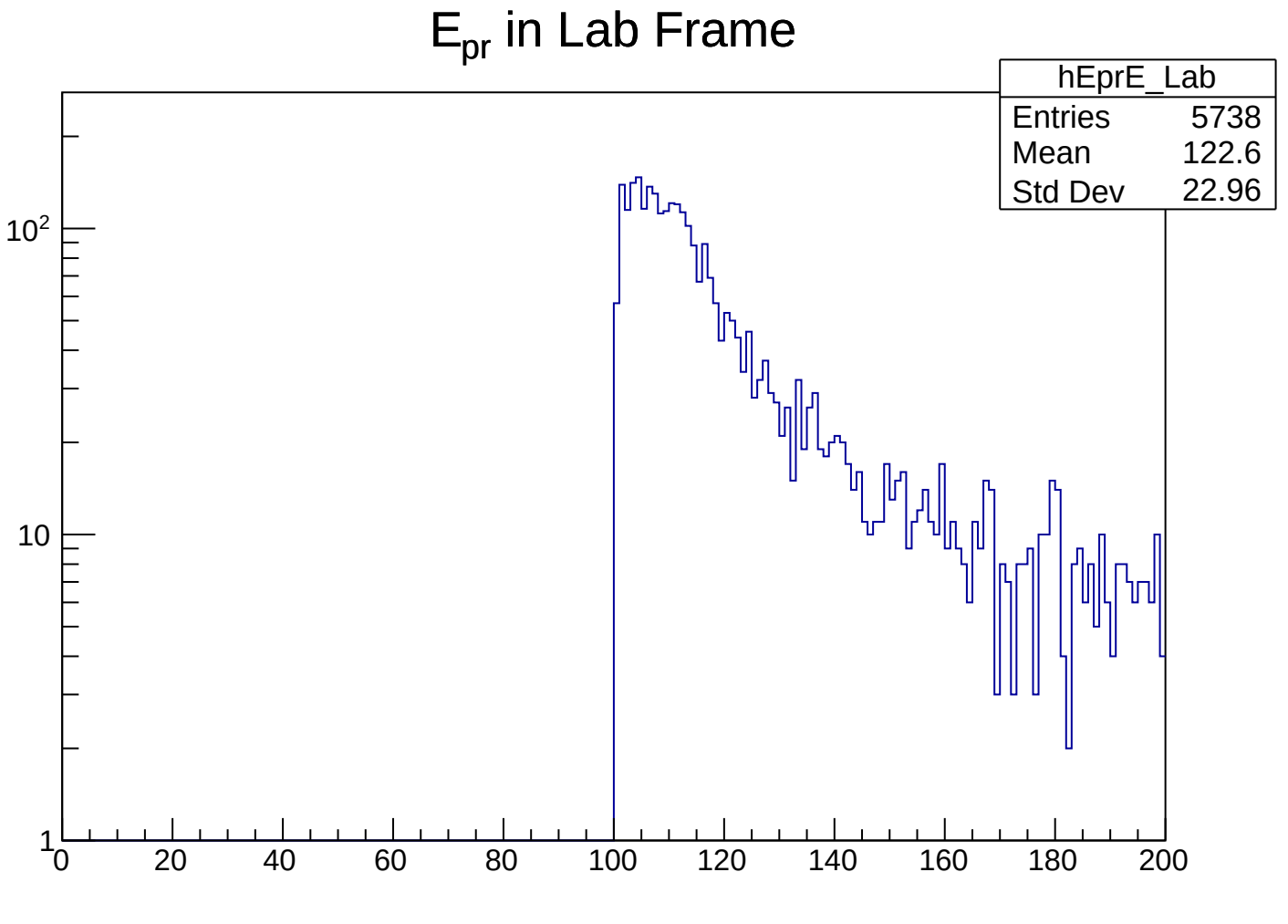

$P_{\pi z}$ in Lab Frame
hppiz_Lab
Entries 5738
Mean −0.003126
Std Dev 0.2041
140
120
100
80
60
40
20
0
−0.6
−0.4
−0.2
0
0.2
0.4
0.6

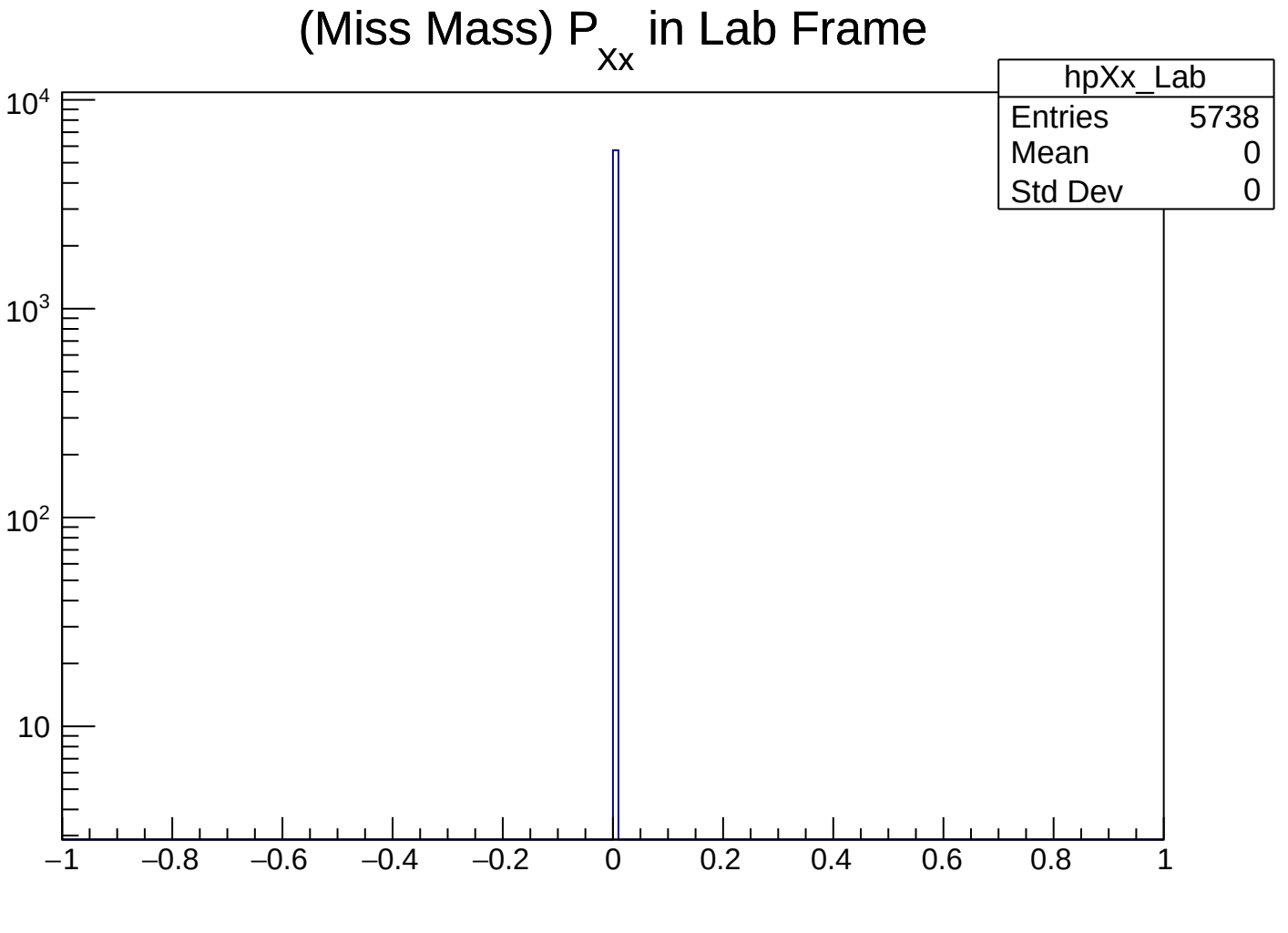

E_π in Lab Frame
hEpiE_Lab
Entries 5738
Mean 14.69
Std Dev 14.26
0
20
40
60
80
100
120
140
160
180
200
220
0
10
20
30
40
50
60

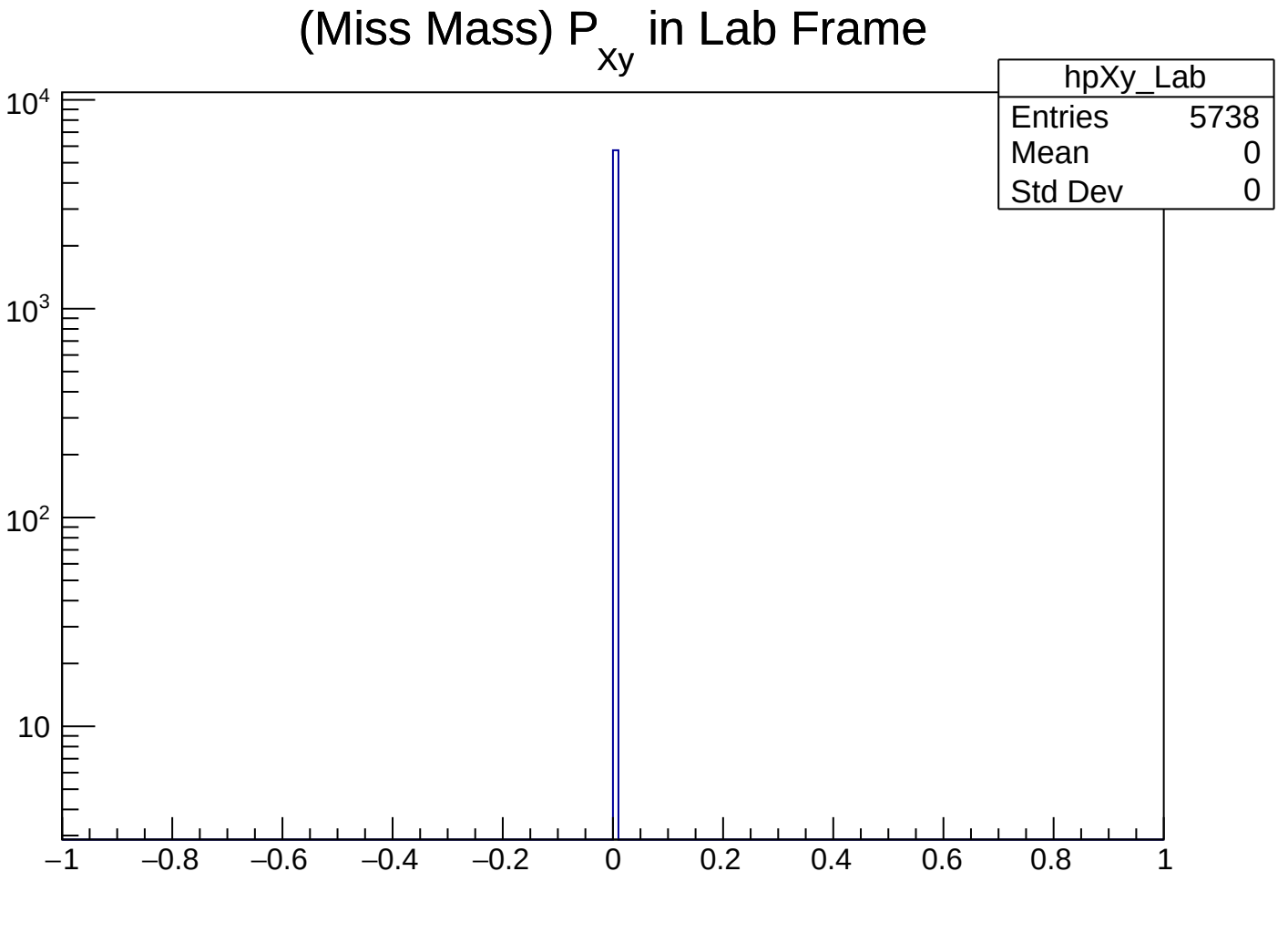

P_{prx} in Lab Frame
hpprx_Lab
Entries 5738
Mean −6.131
Std Dev 1.177
10^2
10
1
−10
−9
−8
−7
−6
−5
−4
−3
−2
−1
0

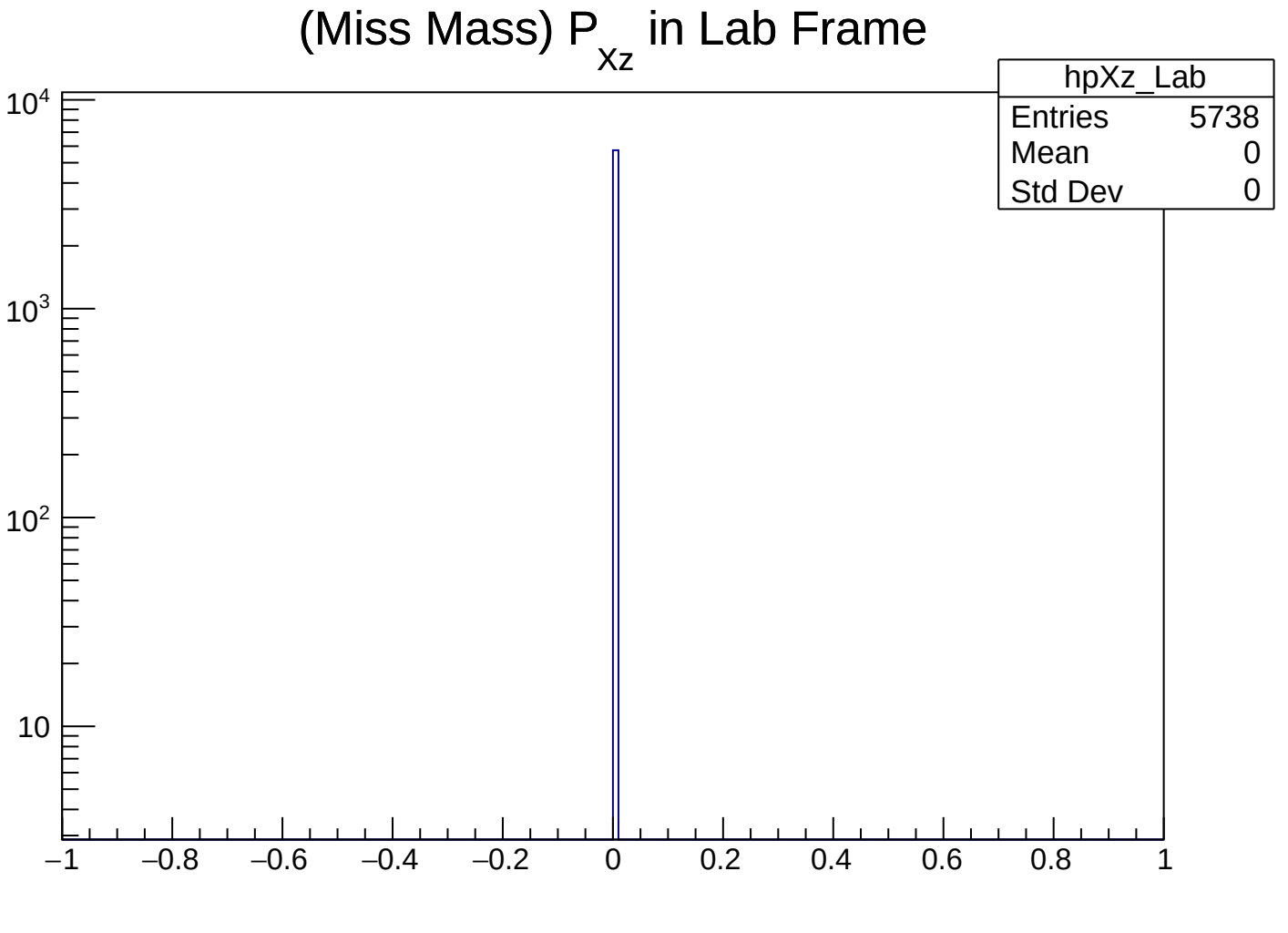

P_{pry} in Lab Frame
hppry_Lab
Entries 5738
Mean 0.00416
Std Dev 0.2266
10^2
10
1
–0.6
–0.4
–0.2
0
0.2
0.4
0.6

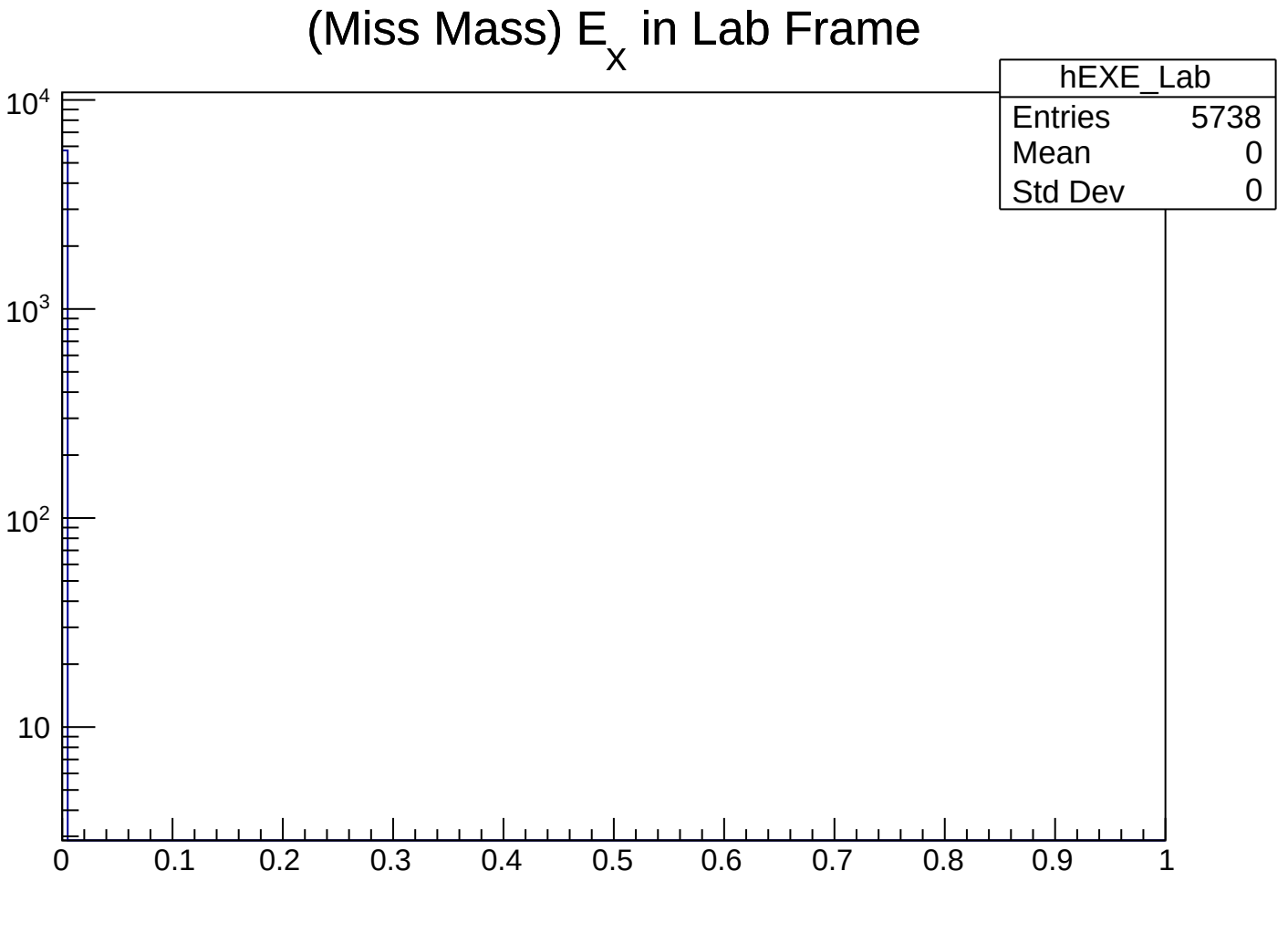

P_{prz} in Lab Frame
hpprz_Lab
Entries 5738
Mean 0.00416
Std Dev 0.2266
10^2
10
1
–0.6
–0.4
–0.2
0
0.2
0.4
0.6

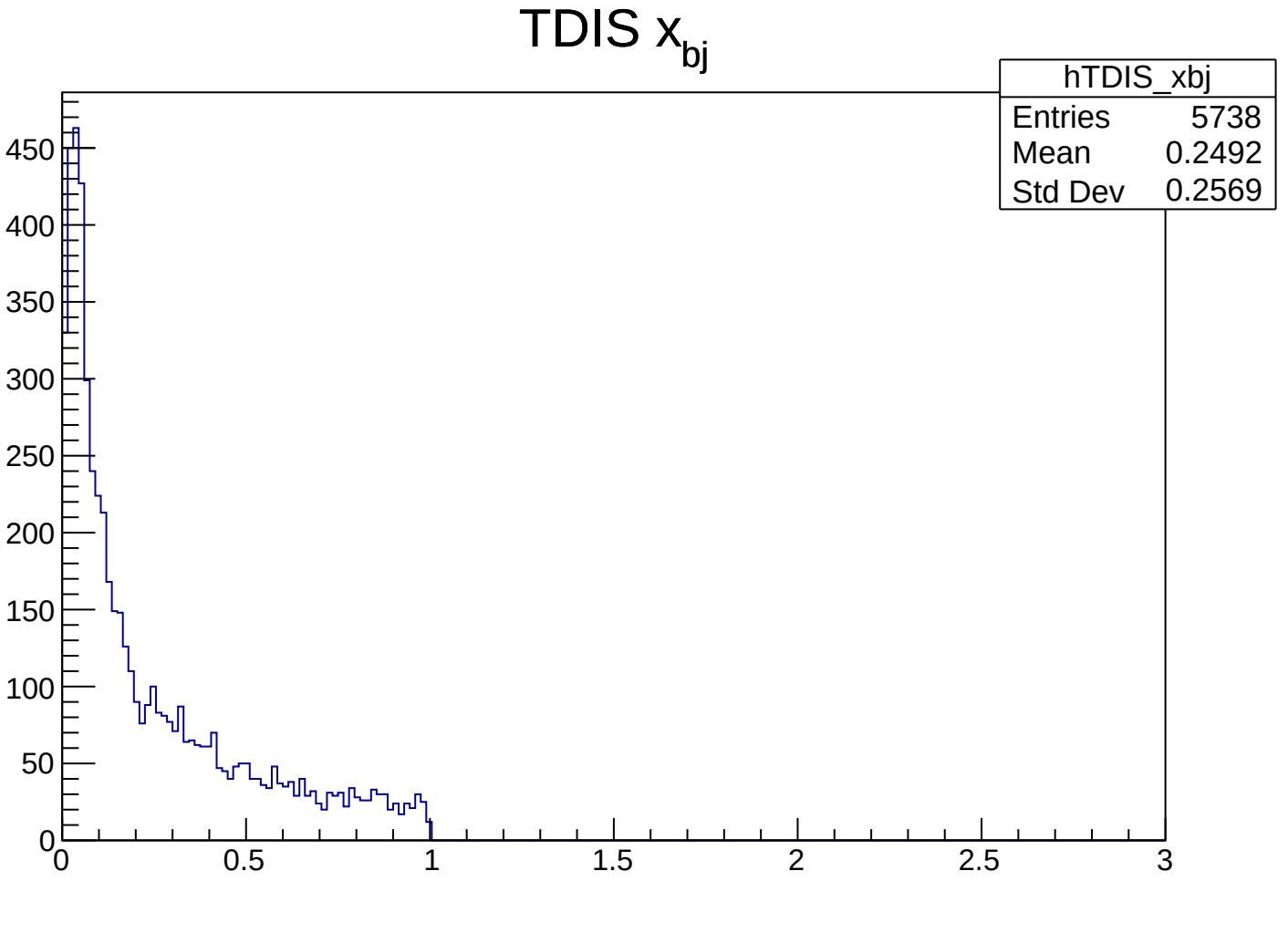

E_{pr} in Lab Frame
hEprE_Lab
Entries 5738
Mean 122.6
Std Dev 22.96
10^2
10
1
0
20
40
60
80
100
120
140
160
180
200

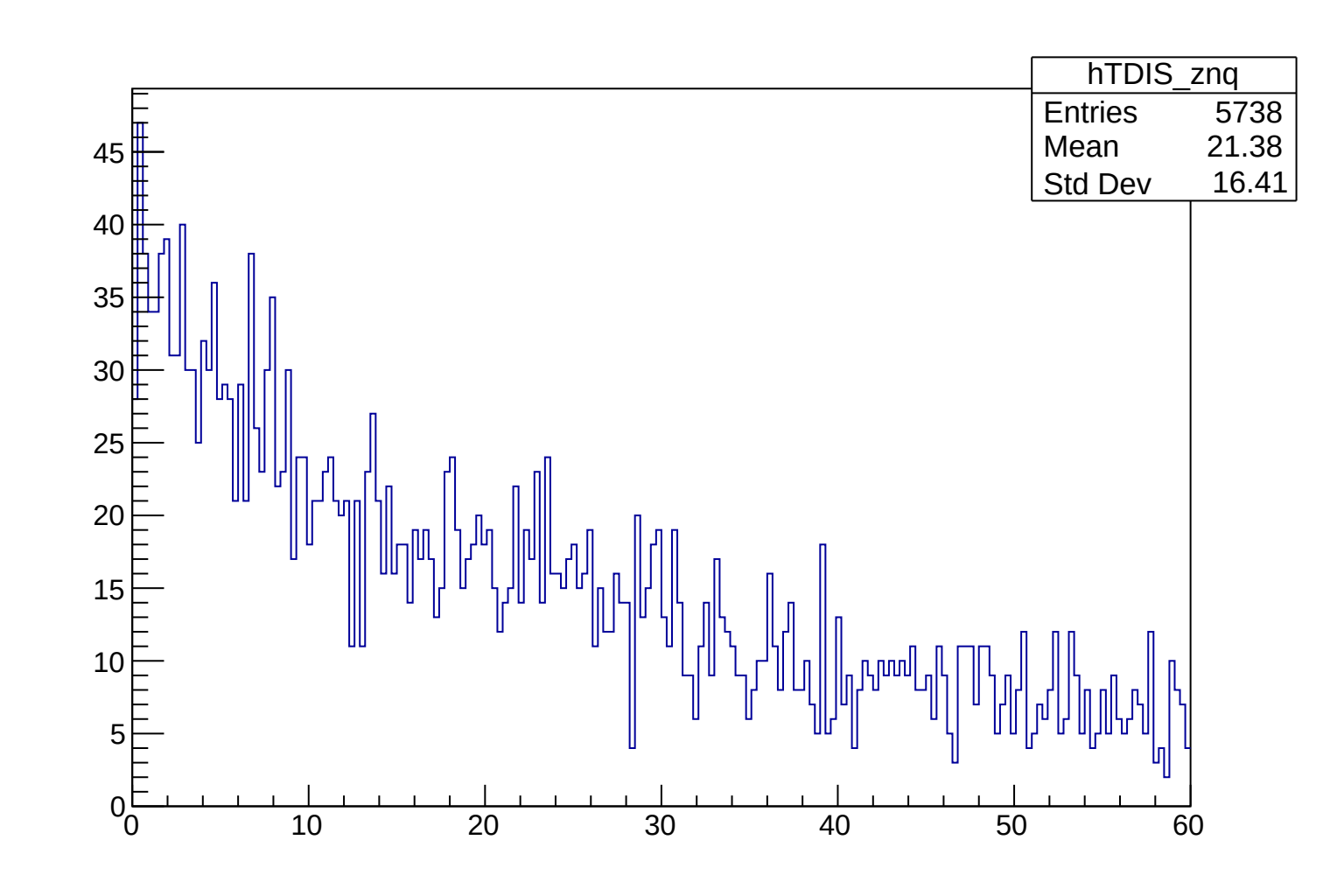

(Miss Mass) P Xx in Lab Frame
hpXx_Lab
Entries 5738
Mean 0
Std Dev 0
10^4
10^3
10^2
10
−1
−0.8
−0.6
−0.4
−0.2
0
0.2
0.4
0.6
0.8
1

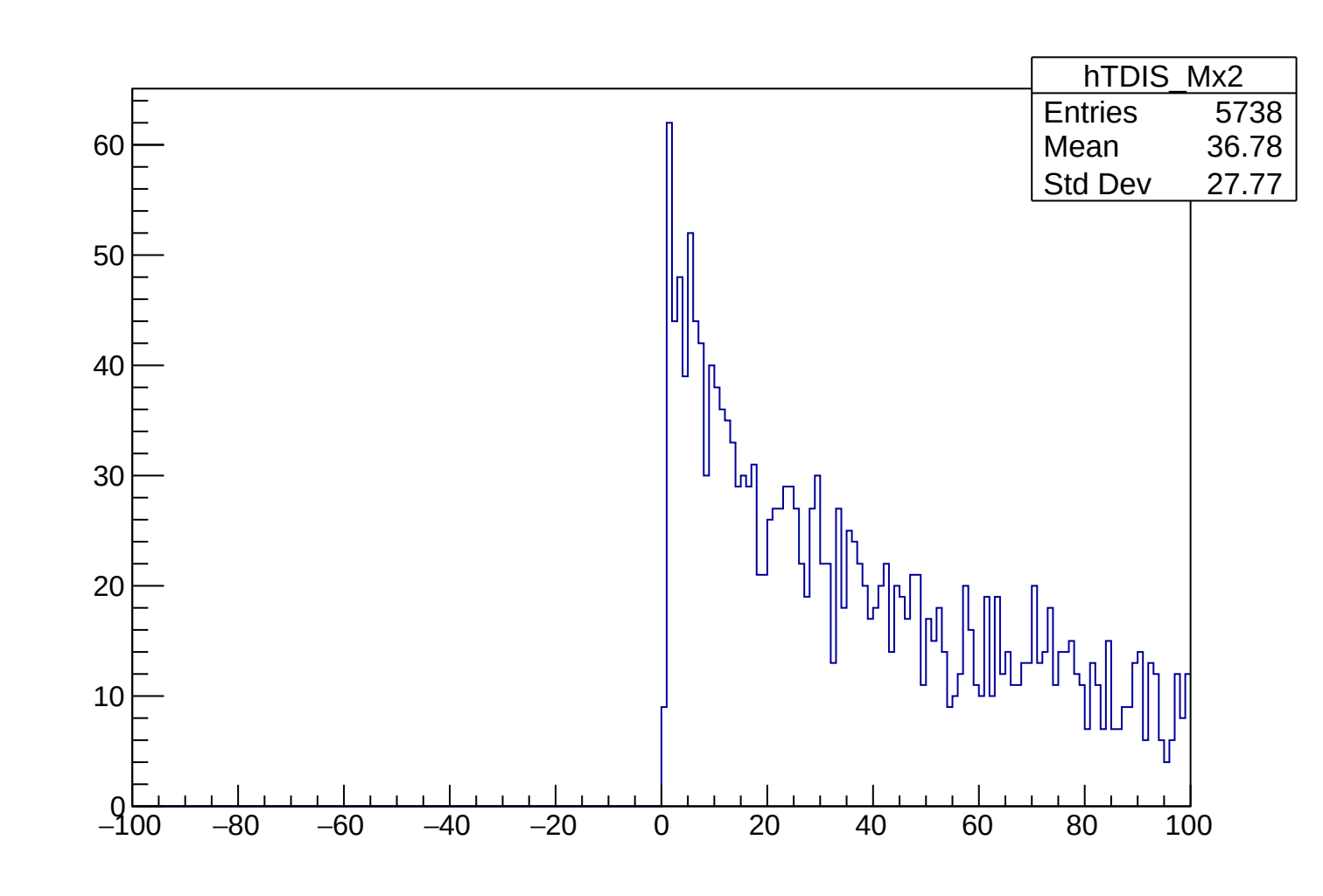

(Miss Mass) P Xy in Lab Frame
hpXy_Lab
Entries 5738
Mean 0
Std Dev 0
10^4
10^3
10^2
10
−1
−0.8
−0.6
−0.4
−0.2
0
0.2
0.4
0.6
0.8
1

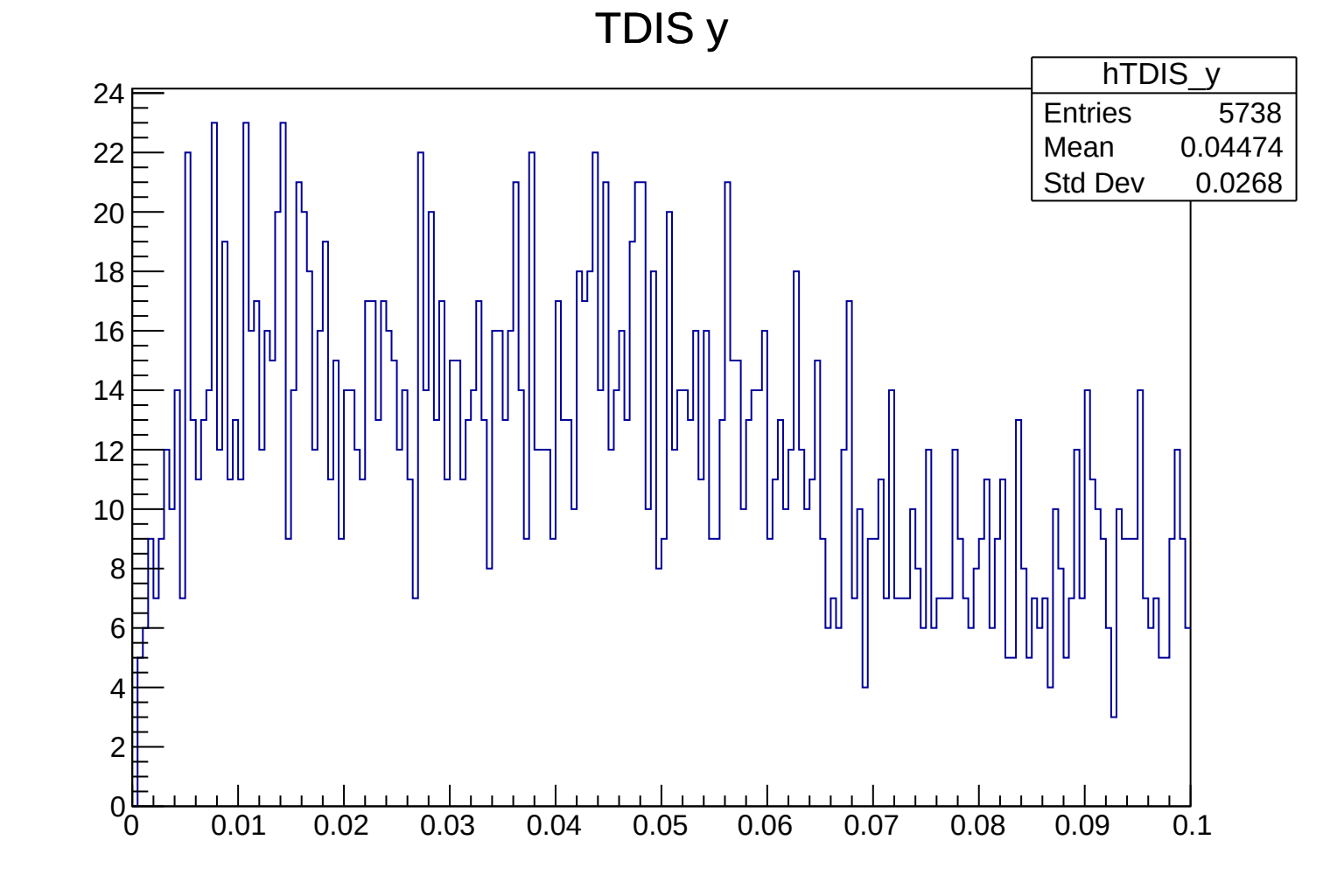

(Miss Mass) P Xz in Lab Frame
hpXz_Lab
Entries 5738
Mean 0
Std Dev 0
10^4
10^3
10^2
10
−1
−0.8
−0.6
−0.4
−0.2
0
0.2
0.4
0.6
0.8
1

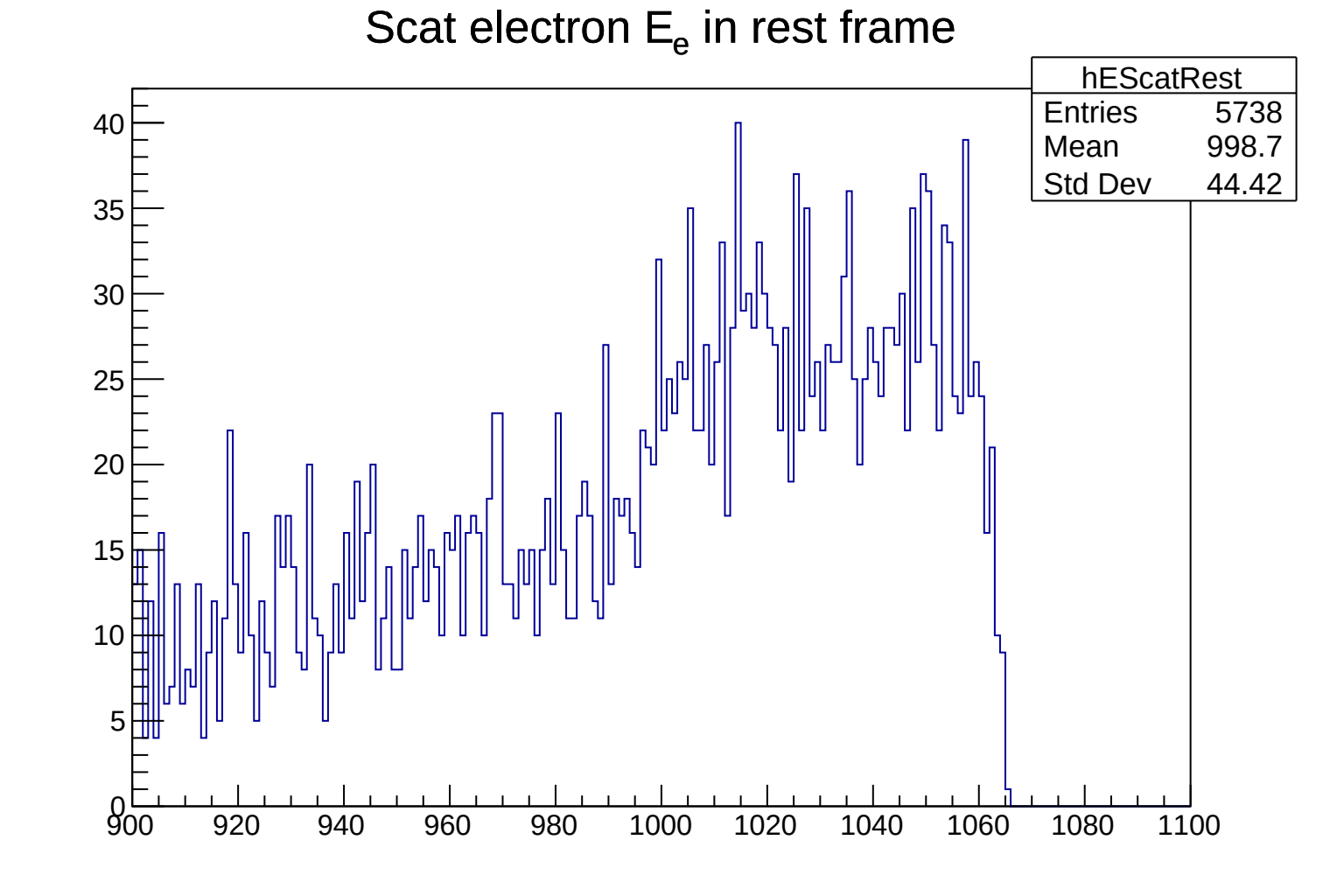

(Miss Mass) E_x in Lab Frame
hEXE_Lab
Entries 5738
Mean 0
Std Dev 0
10^4
10^3
10^2
10
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1

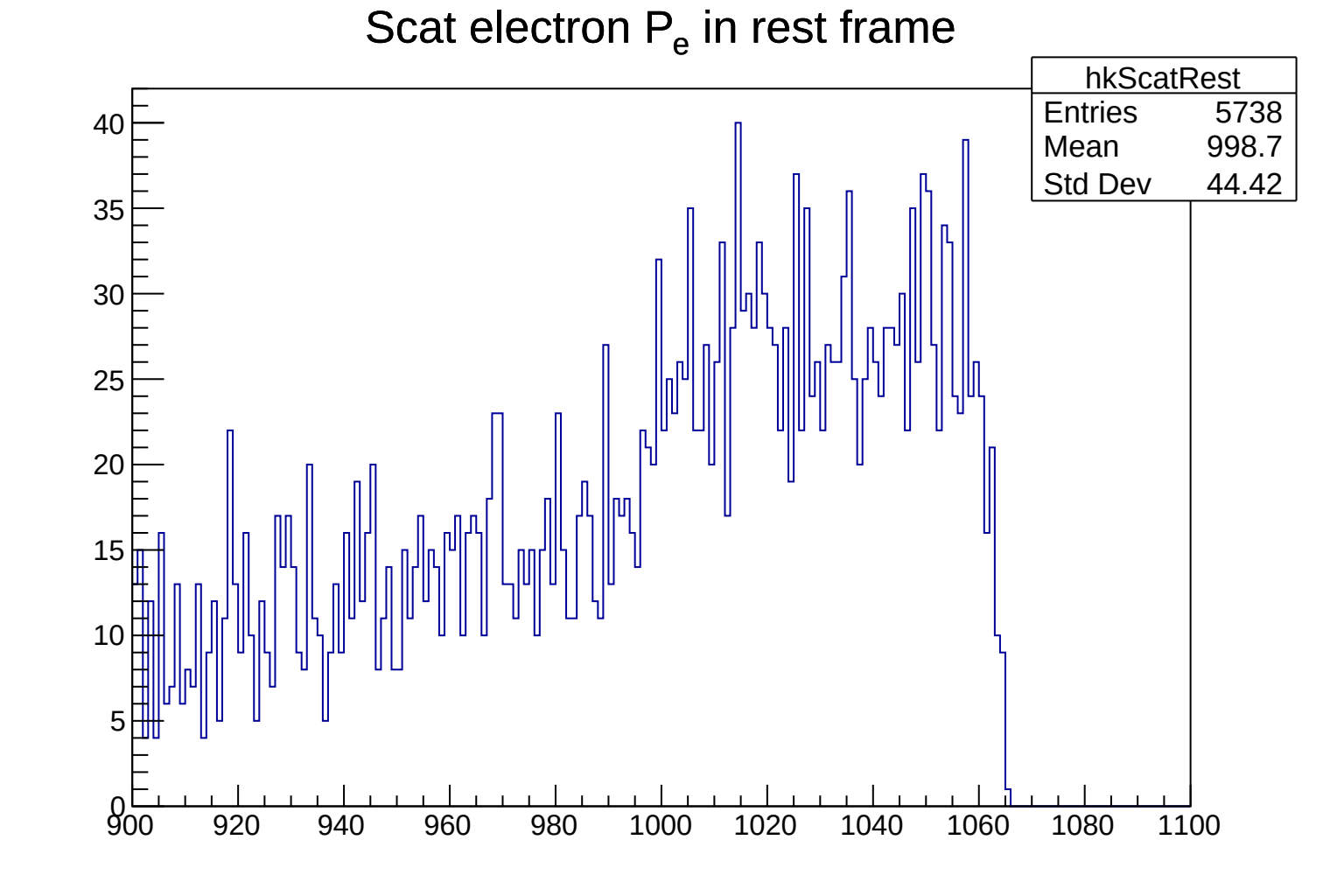

TDIS x_{bj}
hTDIS_xbj
Entries 5738
Mean 0.2492
Std Dev 0.2569
450
400
350
300
250
200
150
100
50
0
0
0.5
1
1.5
2
2.5
3

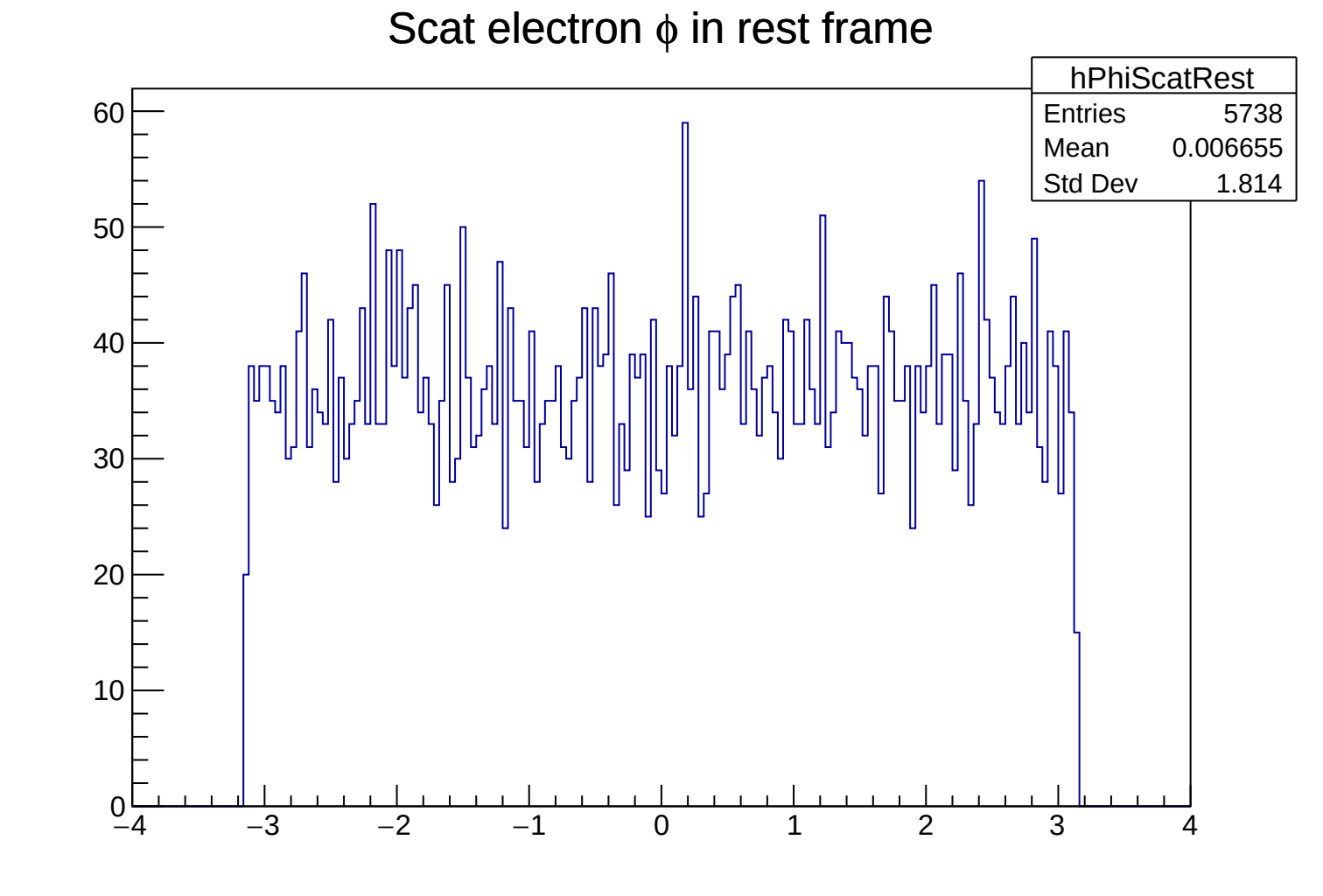

hTDIS_znq
Entries 5738
Mean 21.38
Std Dev 16.41
0
5
10
15
20
25
30
35
40
45
0
10
20
30
40
50
60

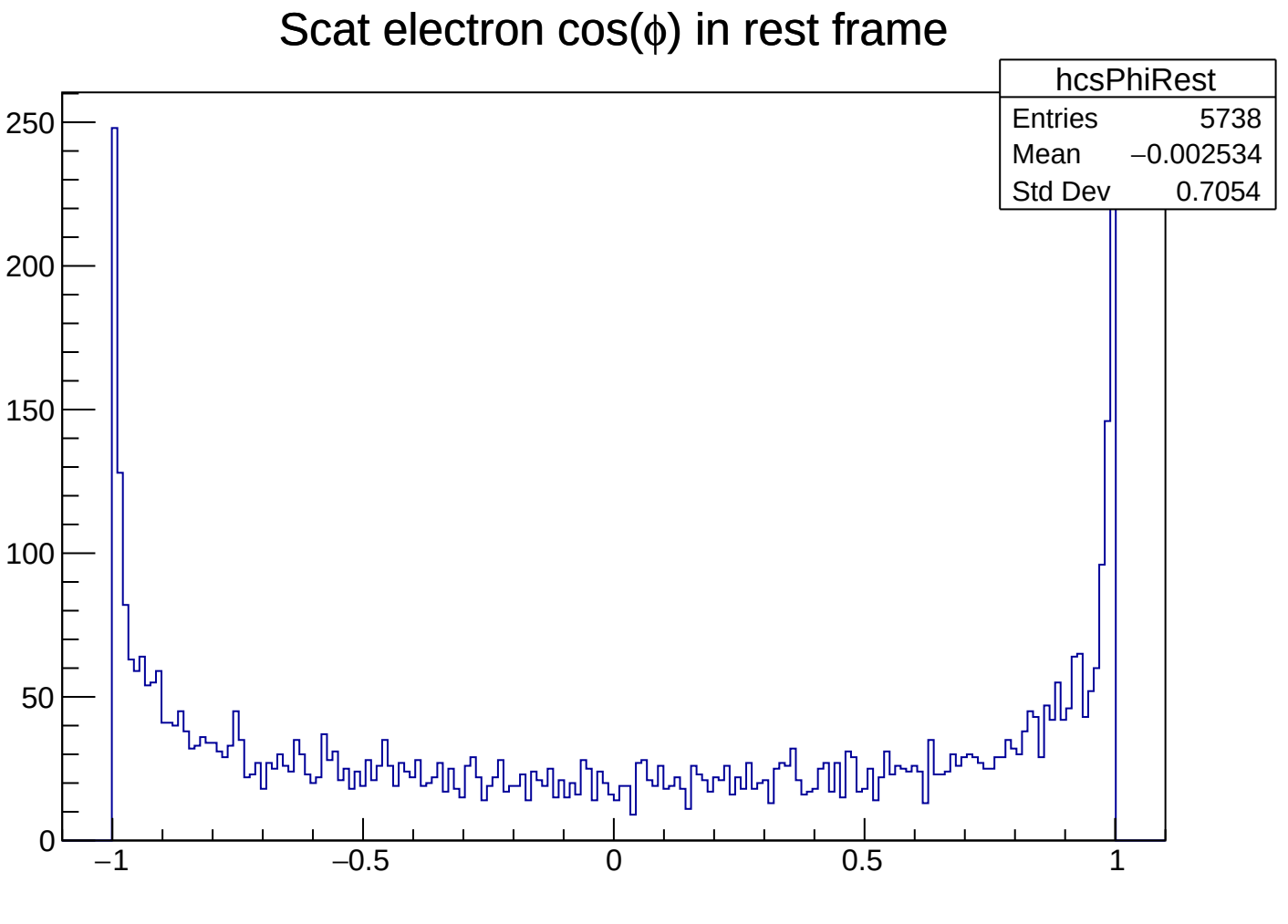

hTDIS_Mx2
Entries 5738
Mean 36.78
Std Dev 27.77
60
50
40
30
20
10
0
–100
–80
–60
–40
–20
0
20
40
60
80
100

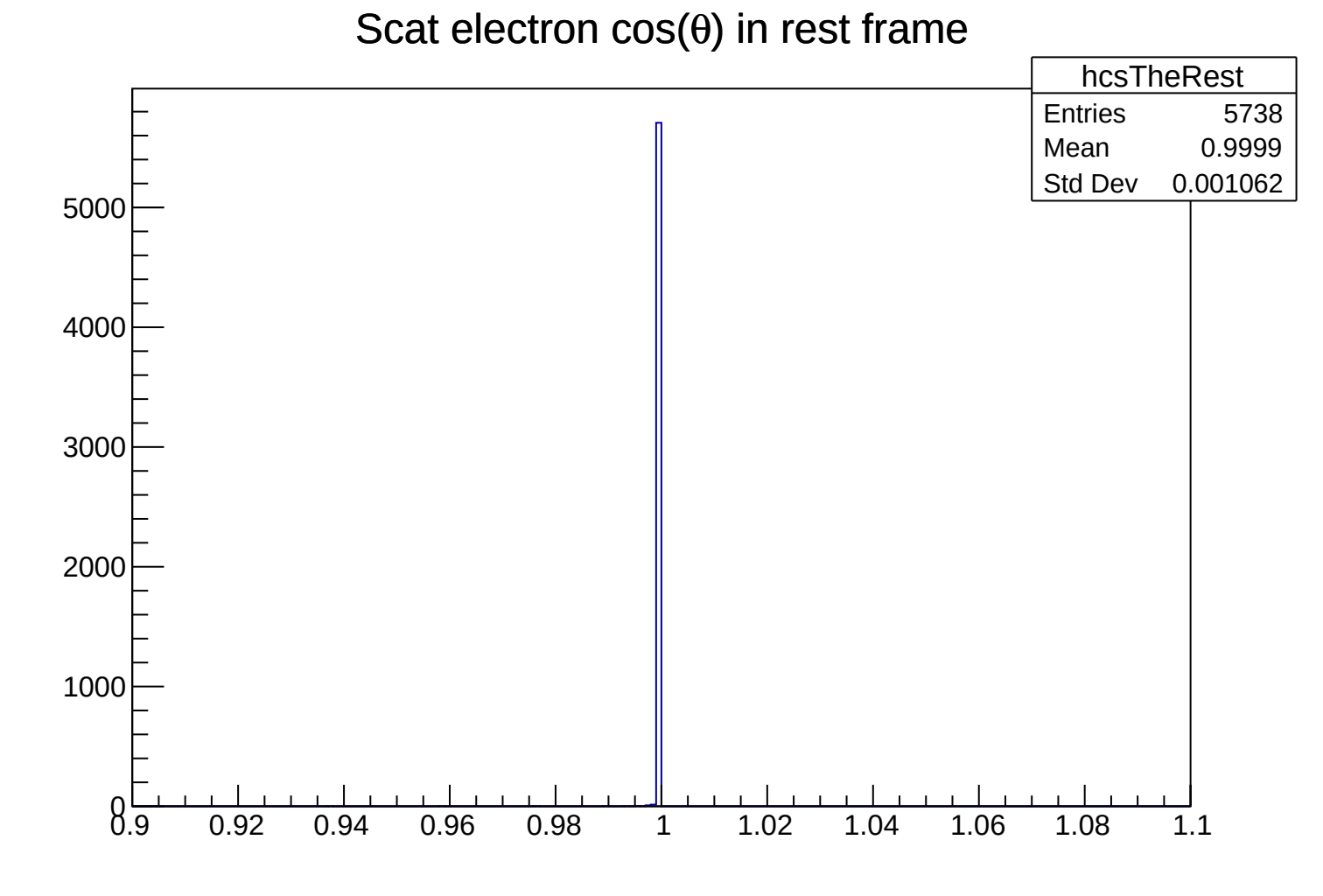

TDIS y
hTDIS_y
Entries 5738
Mean 0.04474
Std Dev 0.0268
24
22
20
18
16
14
12
10
8
6
4
2
0
0
0.01
0.02
0.03
0.04
0.05
0.06
0.07
0.08
0.09
0.1

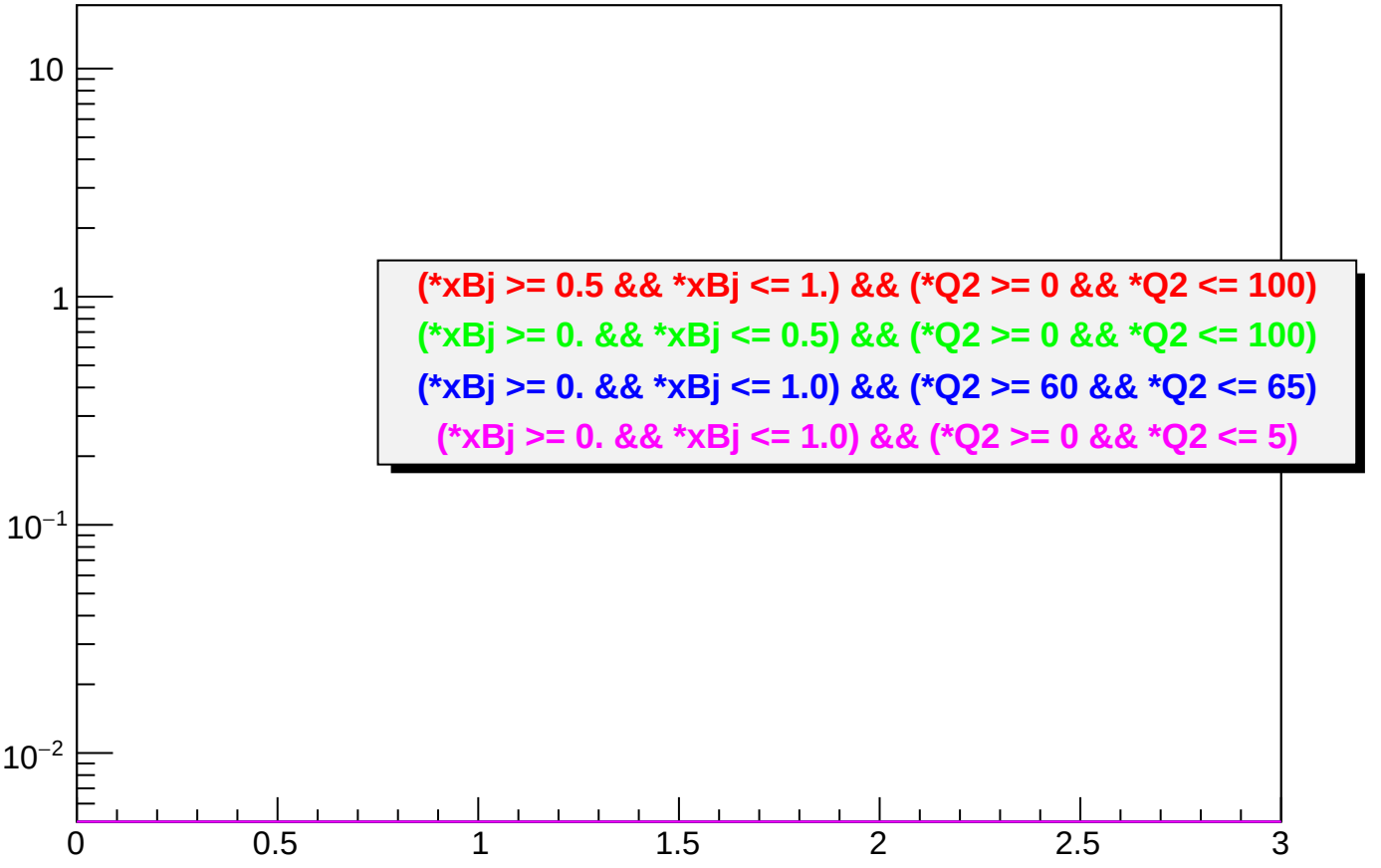

Scat electron E_e in rest frame
hEScatRest
Entries 5738
Mean 998.7
Std Dev 44.42
0
5
10
15
20
25
30
35
40
900
920
940
960
980
1000
1020
1040
1060
1080
1100

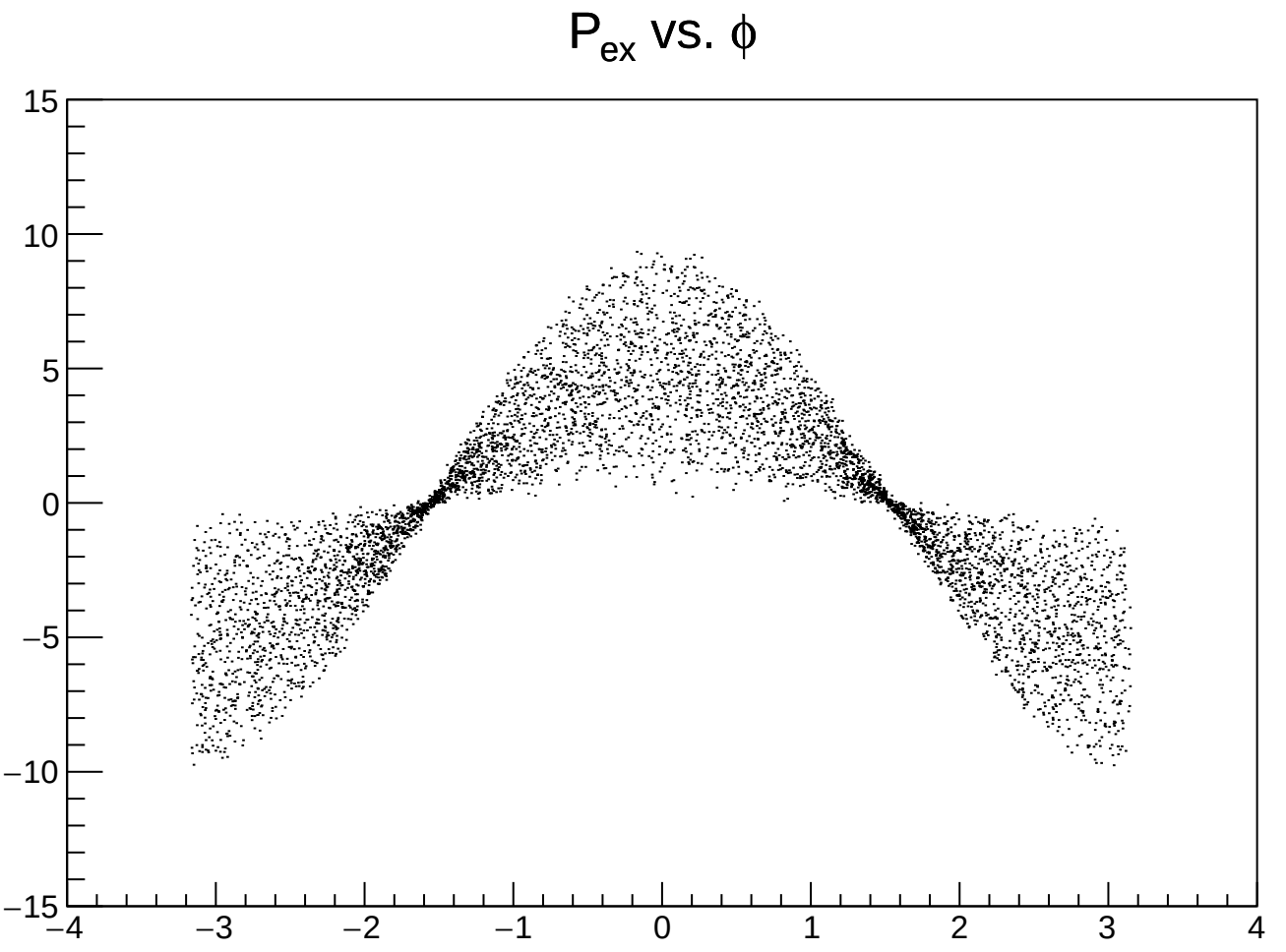

Scat electron P_e in rest frame
hkScatRest
Entries 5738
Mean 998.7
Std Dev 44.42
0
5
10
15
20
25
30
35
40
900
920
940
960
980
1000
1020
1040
1060
1080
1100

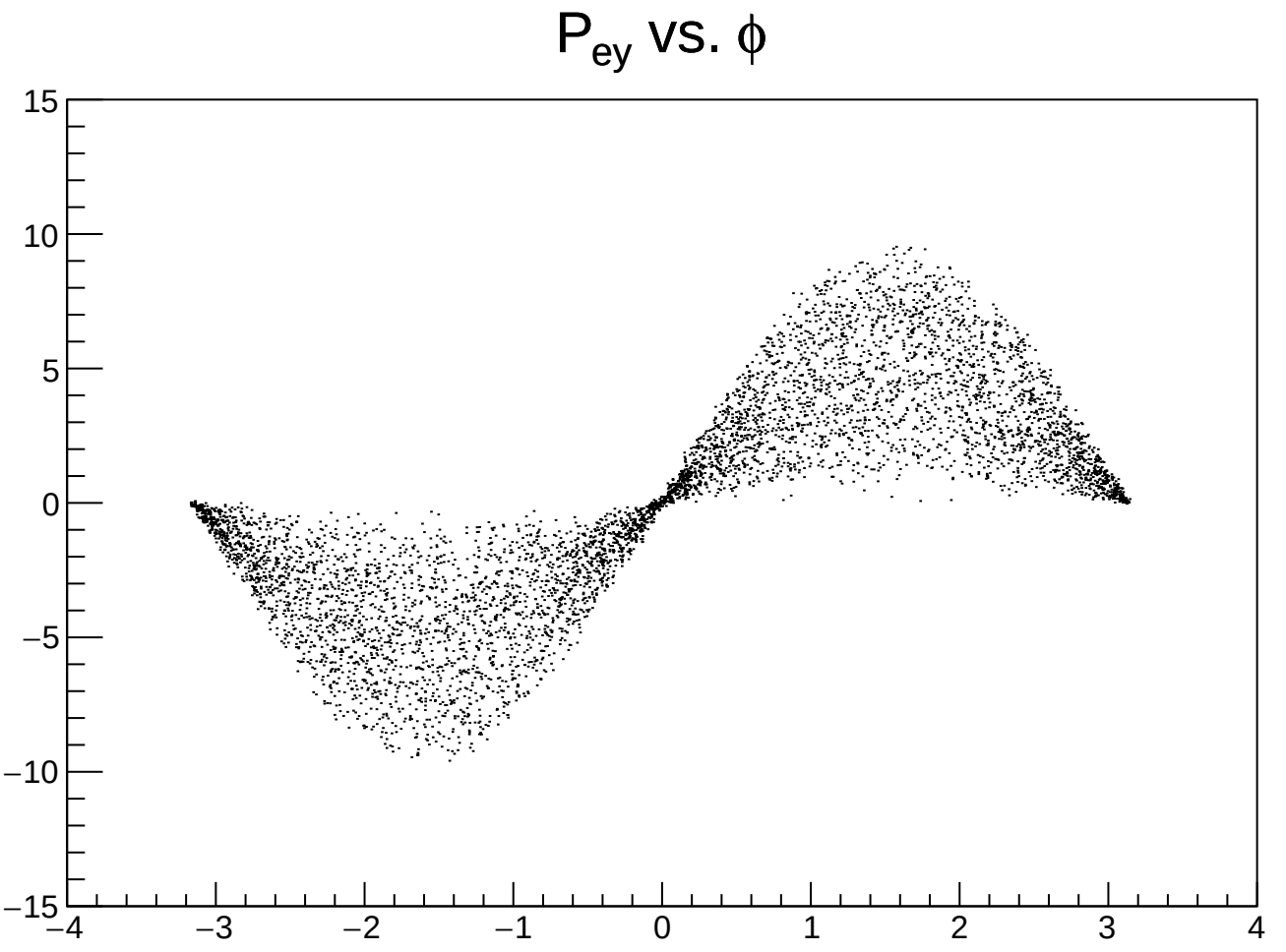

Scat electron ϕ in rest frame
hPhiScatRest
Entries 5738
Mean 0.006655
Std Dev 1.814
60
50
40
30
20
10
0
−4
−3
−2
−1
0
1
2
3
4

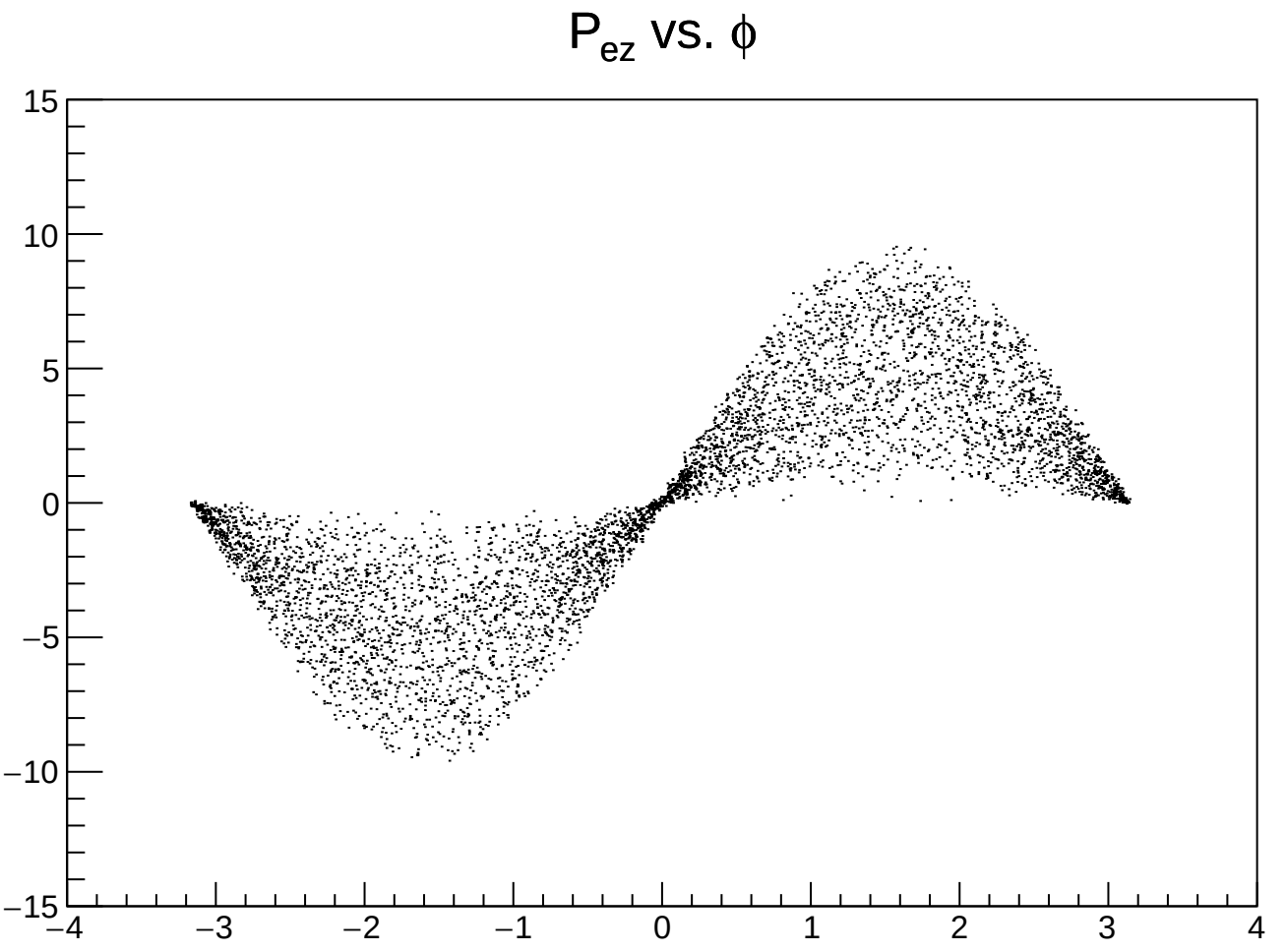

Scat electron cos(ϕ) in rest frame
hcsPhiRest
Entries 5738
Mean −0.002534
Std Dev 0.7054
250
200
150
100
50
0
−1
−0.5
0
0.5
1

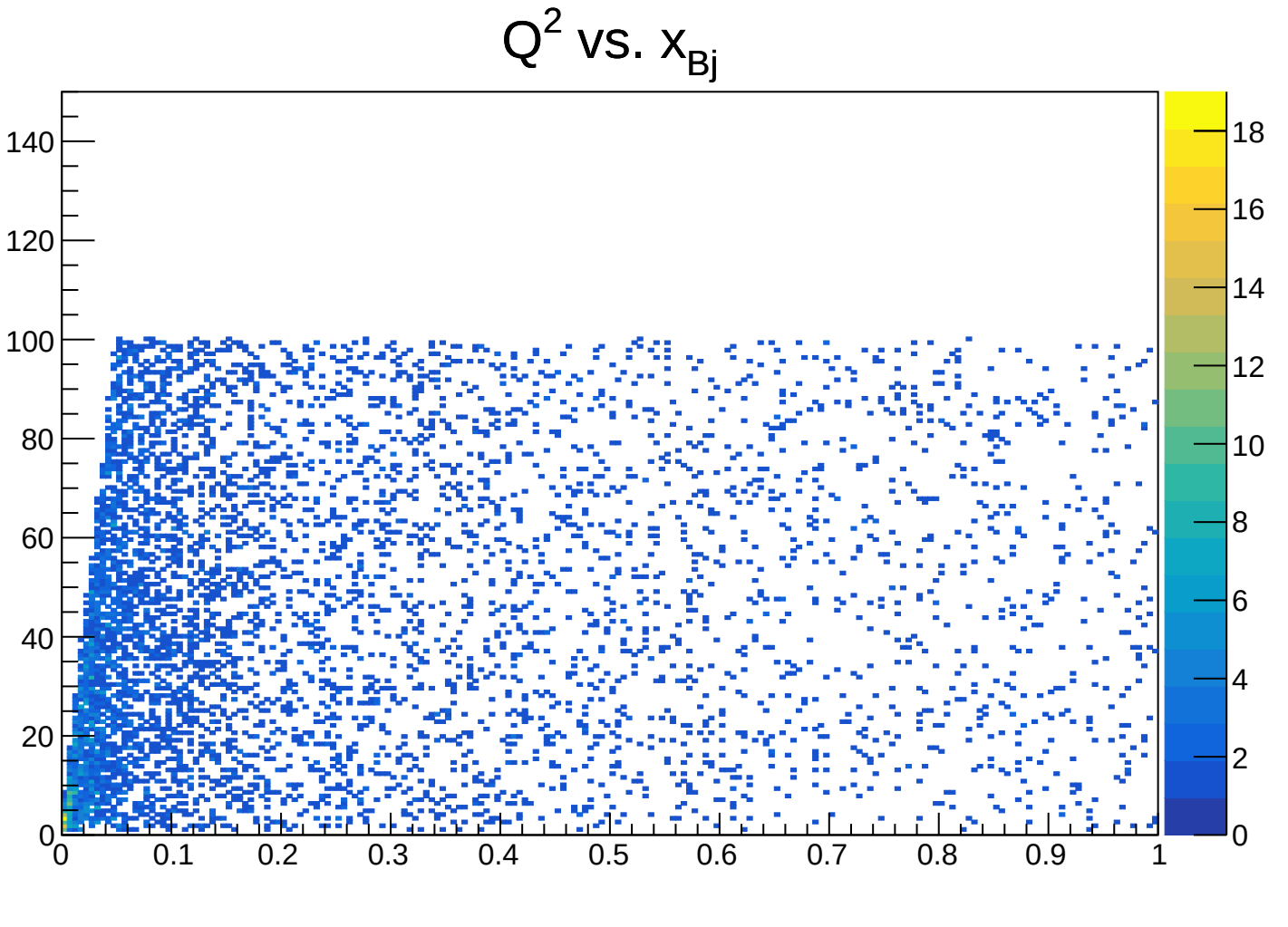

Scat electron cos(θ) in rest frame
hcsTheRest
Entries 5738
Mean 0.9999
Std Dev 0.001062
5000
4000
3000
2000
1000
0
0.9
0.92
0.94
0.96
0.98
1
1.02
1.04
1.06
1.08
1.1

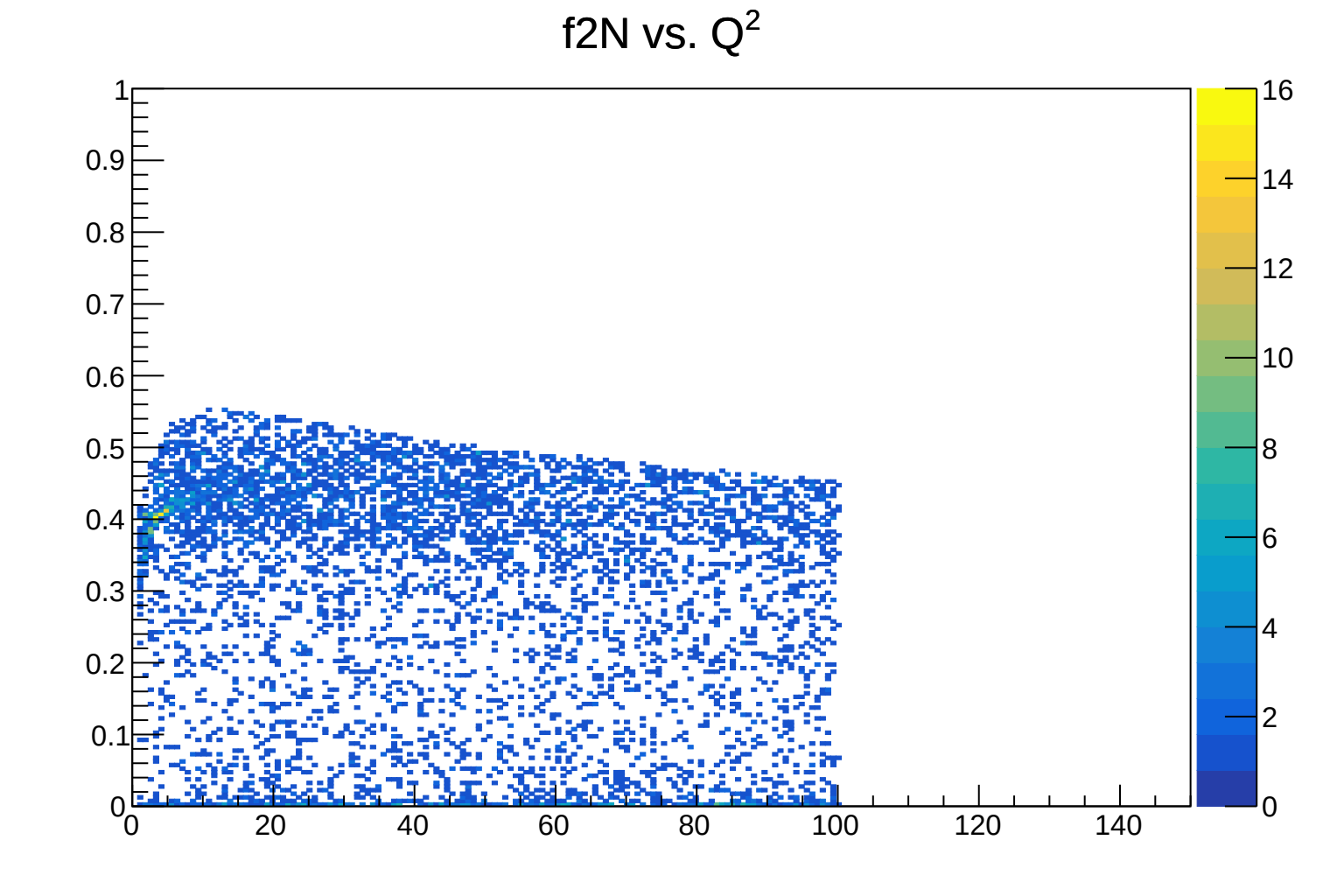

t binned in Q^2 and x_{Bj}
10
1
10^{-1}
10^{-2}
0
0.5
1
1.5
2
2.5
3
(*xBj >= 0.5 && *xBj <= 1.) && (*Q2 >= 0 && *Q2 <= 100)
(*xBj >= 0. && *xBj <= 0.5) && (*Q2 >= 0 && *Q2 <= 100)
(*xBj >= 0. && *xBj <= 1.0) && (*Q2 >= 60 && *Q2 <= 65)
(*xBj >= 0. && *xBj <= 1.0) && (*Q2 >= 0 && *Q2 <= 5)


P_{ex} vs. ϕ
15
10
5
0
−5
−10
−15
−4
−3
−2
−1
0
1
2
3
4


P_{ey} vs. ϕ
15
10
5
0
−5
−10
−15
−4
−3
−2
−1
0
1
2
3
4


P_{ez} vs. ϕ
15
10
5
0
−5
−10
−15
−4
−3
−2
−1
0
1
2
3
4


Q^2 vs. x_{Bj}
140
120
100
80
60
40
20
0
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
18
16
14
12
10
8
6
4
2
0


f2N vs. Q2
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0
20
40
60
80
100
120
140
16
14
12
10
8
6
4
2
0