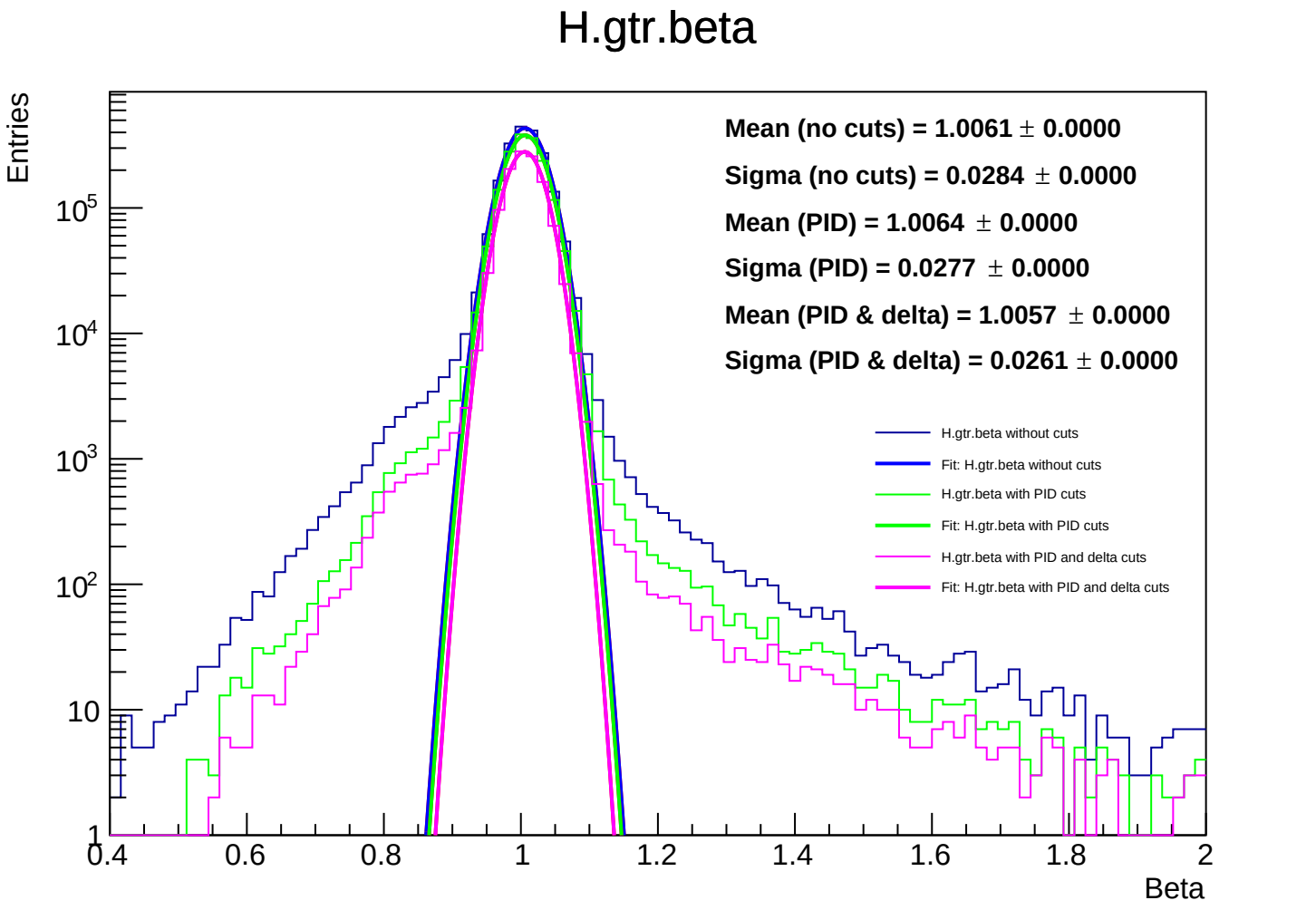
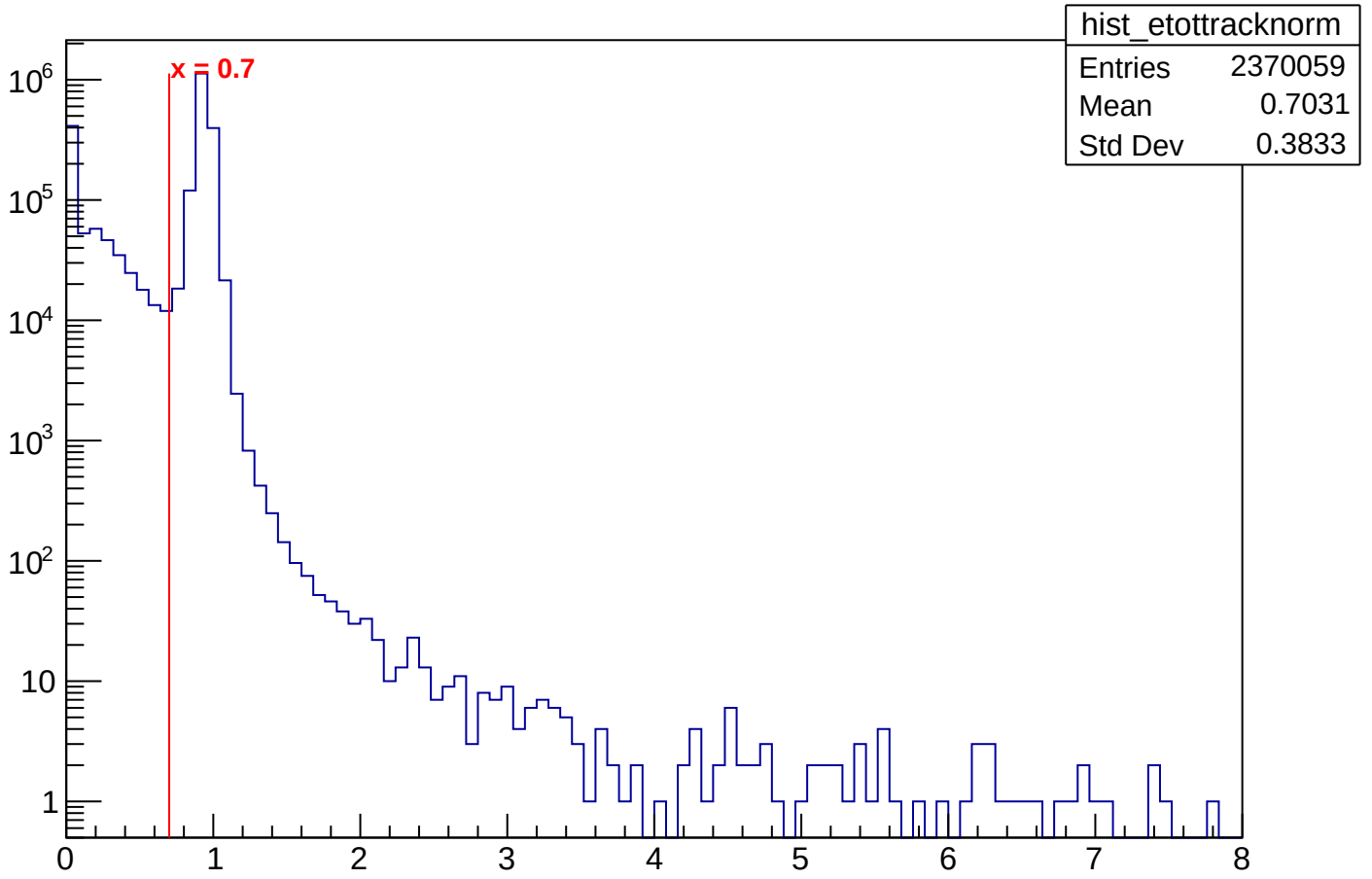
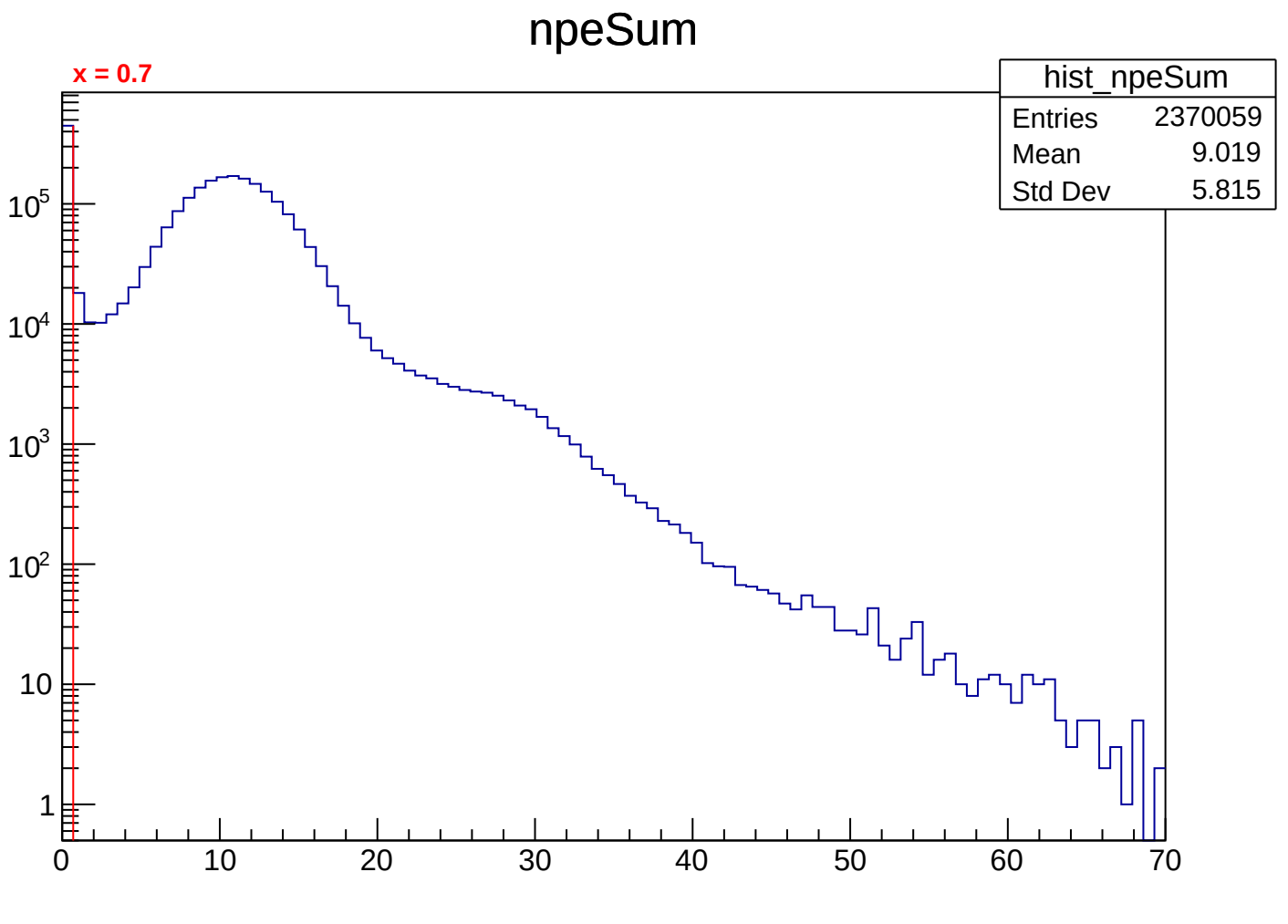
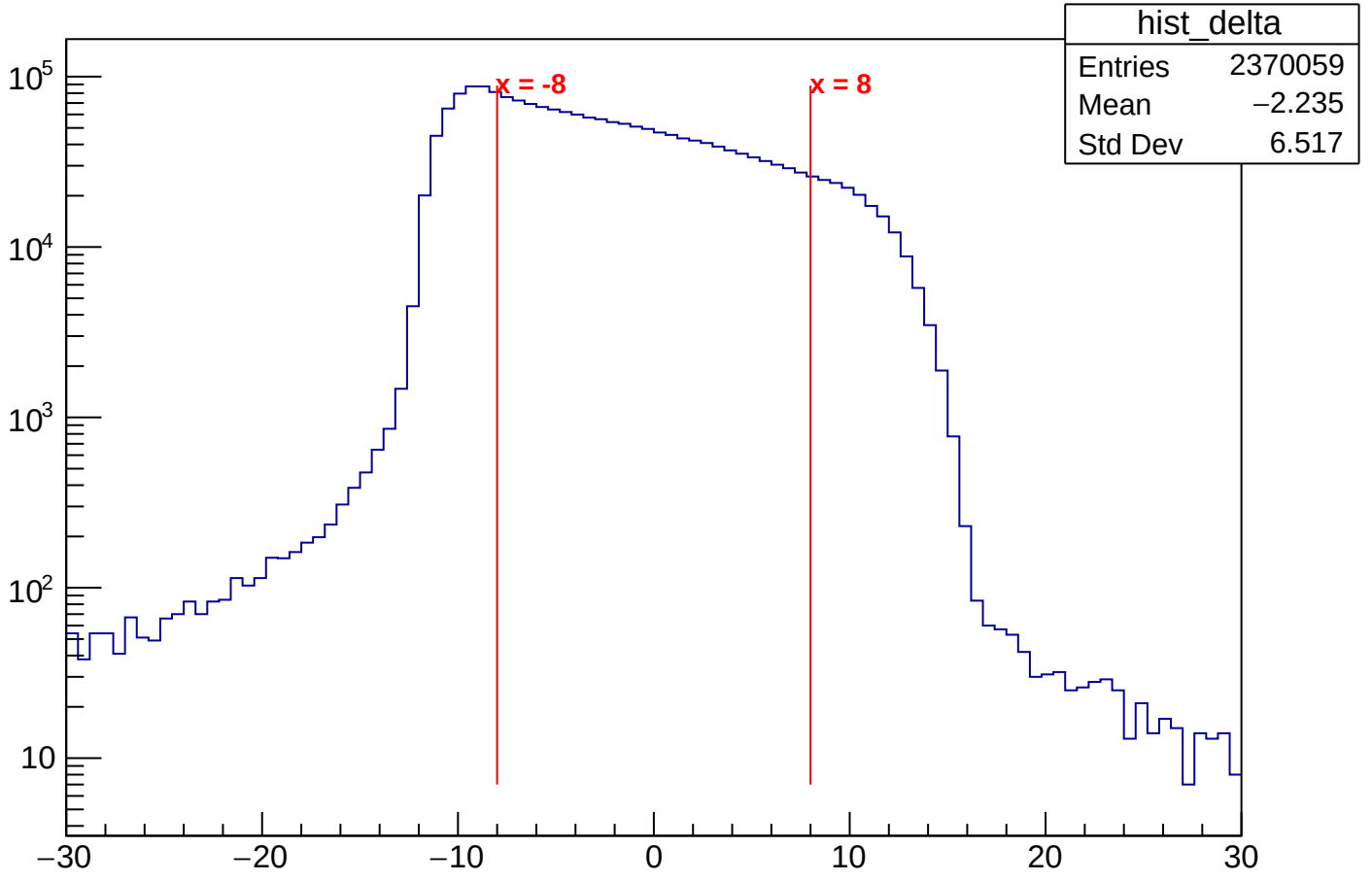
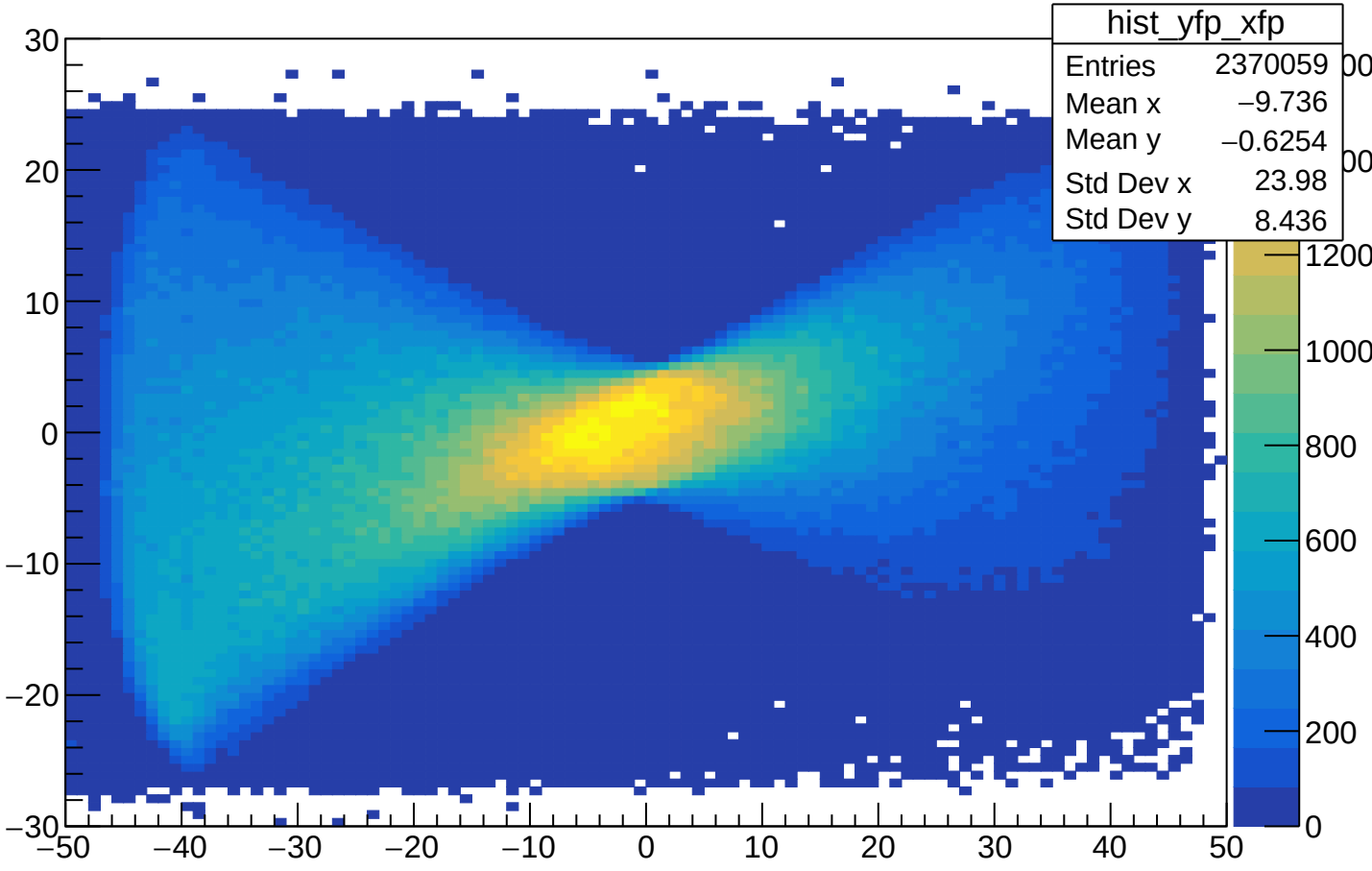
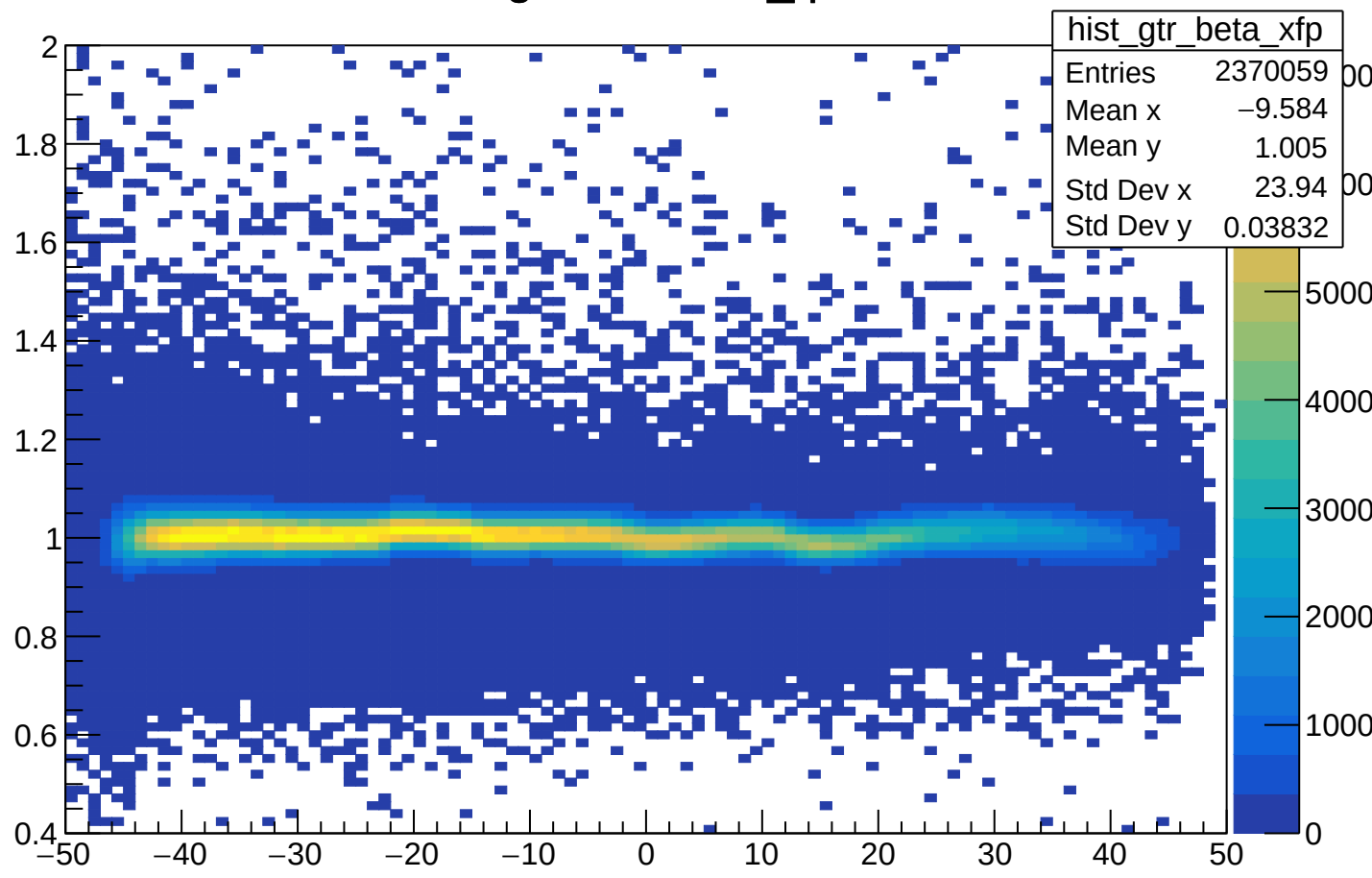

H.gtr.beta
Entries
Beta
Mean (no cuts) = 1.0061 ± 0.0000
Sigma (no cuts) = 0.0284 ± 0.0000
Mean (PID) = 1.0064 ± 0.0000
Sigma (PID) = 0.0277 ± 0.0000
Mean (PID & delta) = 1.0057 ± 0.0000
Sigma (PID & delta) = 0.0261 ± 0.0000
H.gtr.beta without cuts
Fit: H.gtr.beta without cuts
H.gtr.beta with PID cuts
Fit: H.gtr.beta with PID cuts
H.gtr.beta with PID and delta cuts
Fit: H.gtr.beta with PID and delta cuts

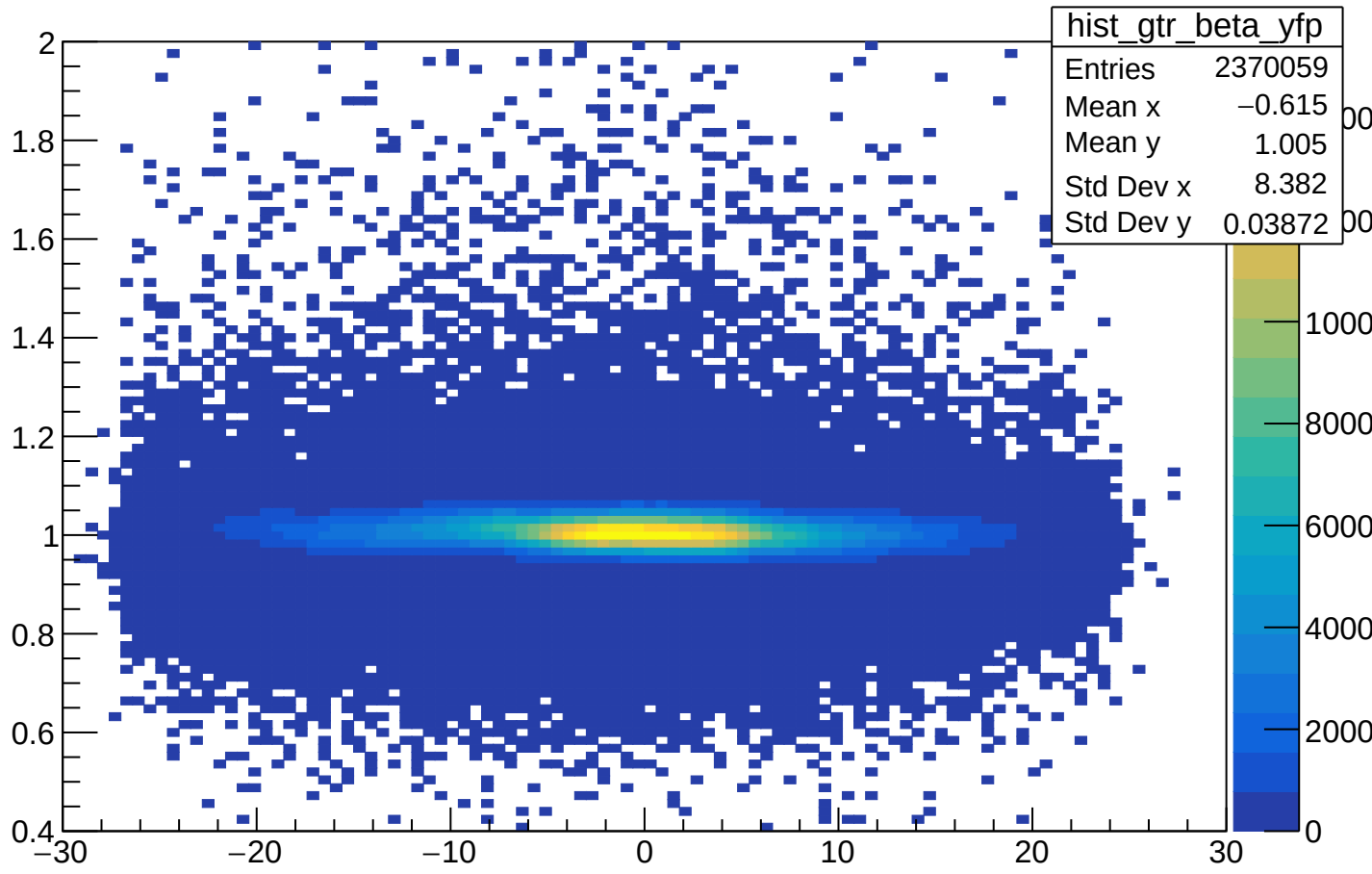

etottracknorm
hist_etottracknorm
Entries 2370059
Mean 0.7031
Std Dev 0.3833
x = 0.7
10^6
10^5
10^4
10^3
10^2
10
1
0
1
2
3
4
5
6
7
8

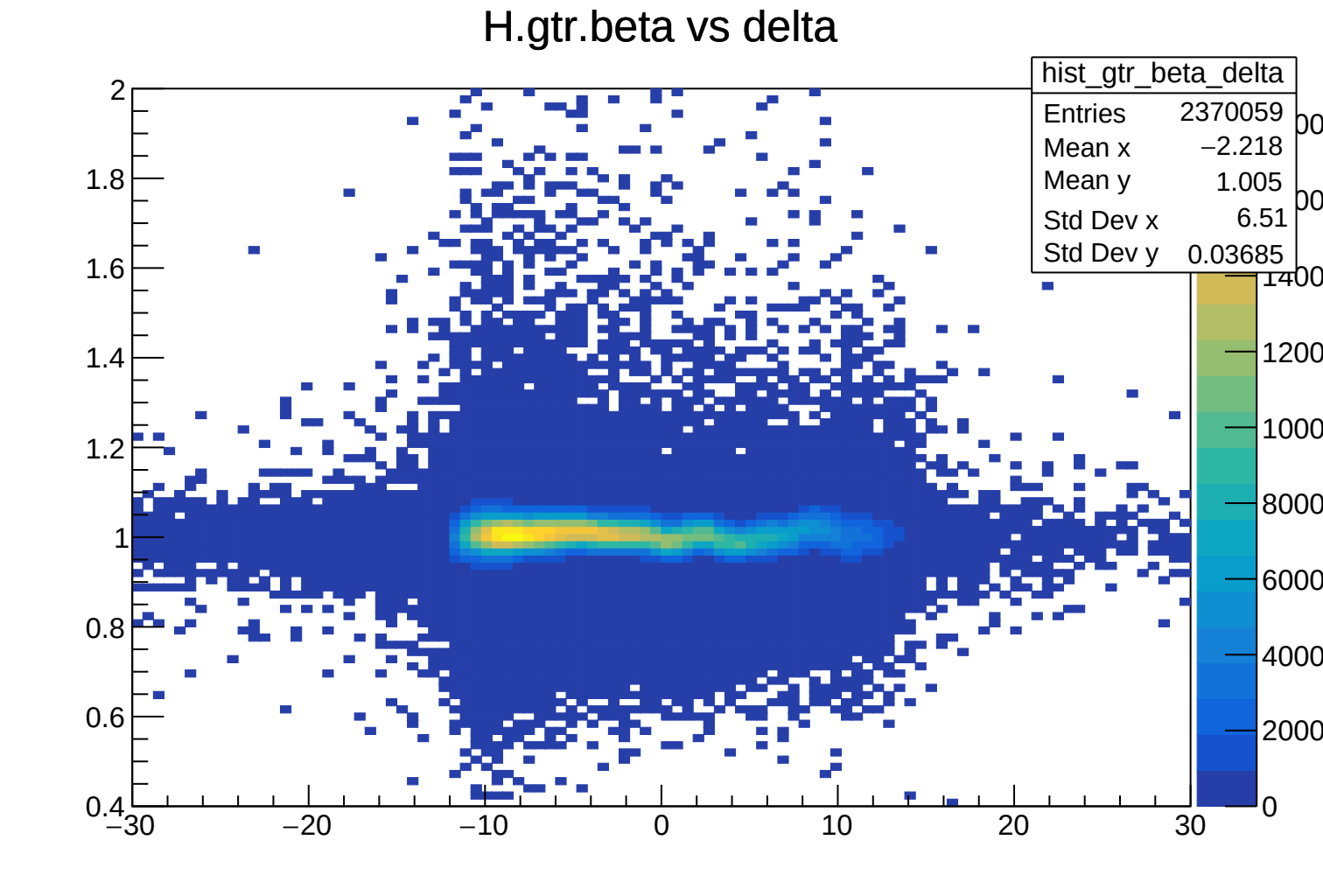

npeSum
x = 0.7
hist_npeSum
Entries 2370059
Mean 9.019
Std Dev 5.815
10^5
10^4
10^3
10^2
10
1
0
10
20
30
40
50
60
70

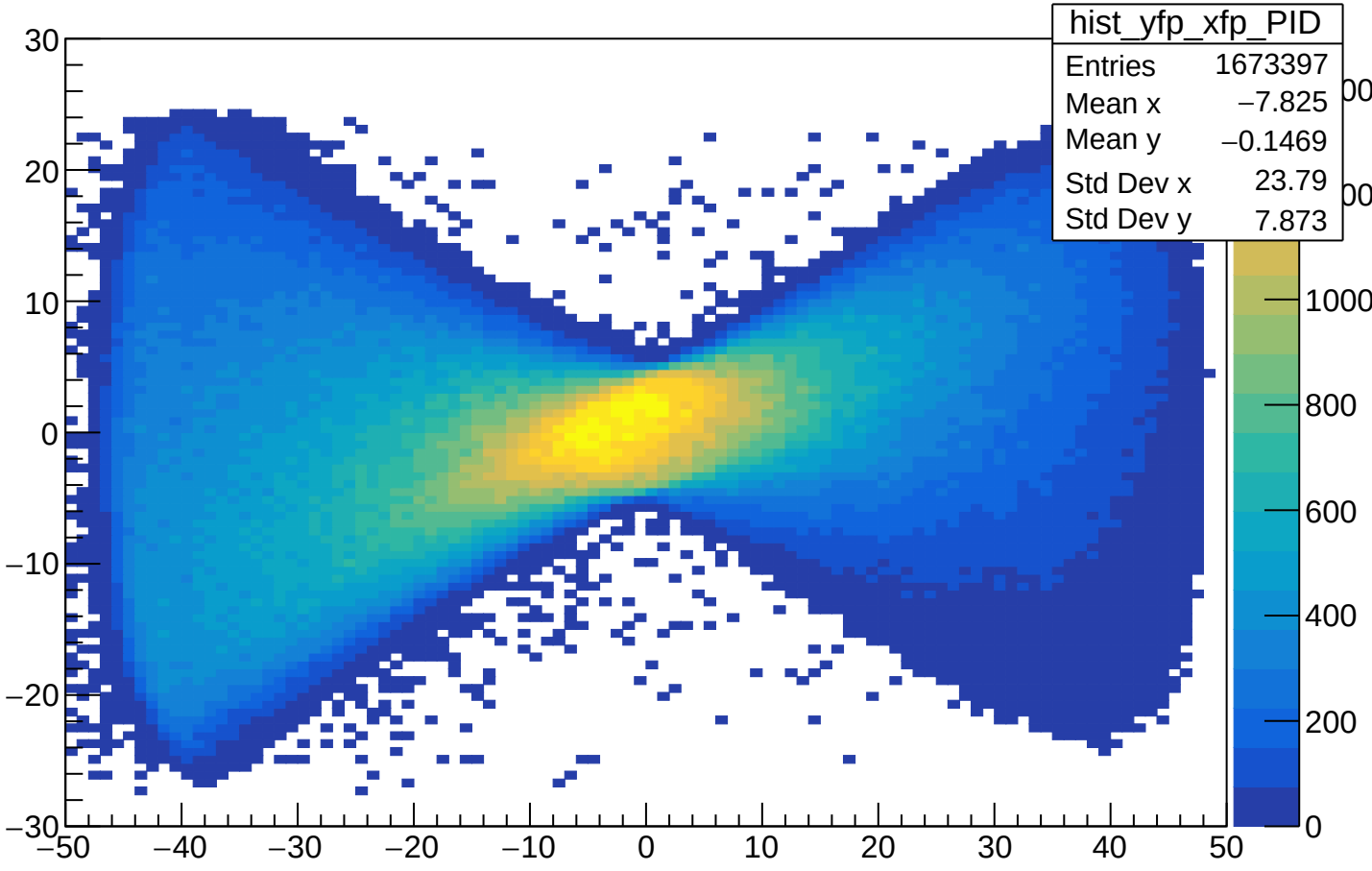

delta
hist_delta
Entries 2370059
Mean −2.235
Std Dev 6.517
x = -8
x = 8
10^5
10^4
10^3
10^2
10
−30
−20
−10
0
10
20
30

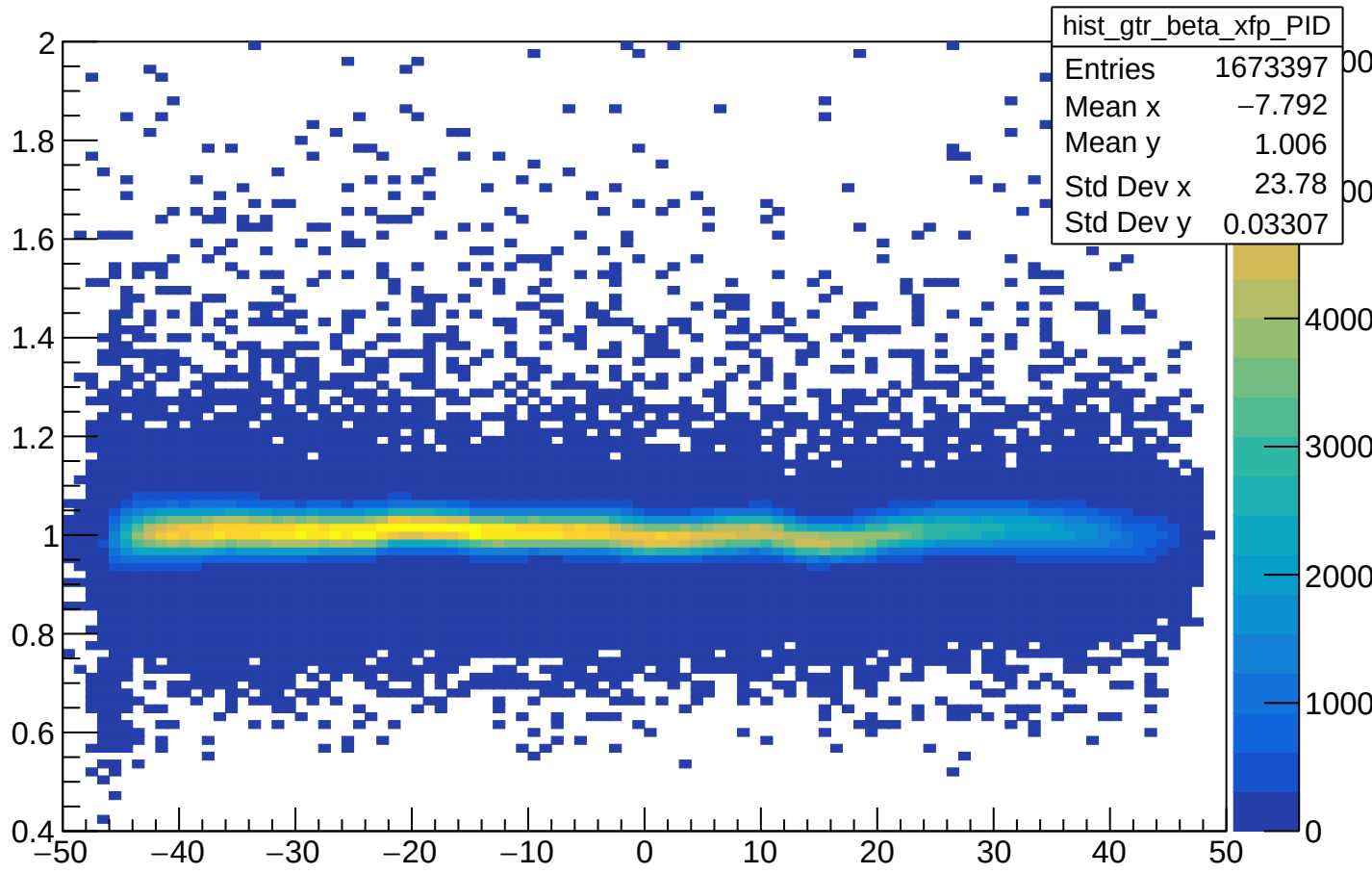

focal plane
hist_yfp_xfp
Entries 2370059
Mean x −9.736
Mean y −0.6254
Std Dev x 23.98
Std Dev y 8.436
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
1200
1000
800
600
400
200
0

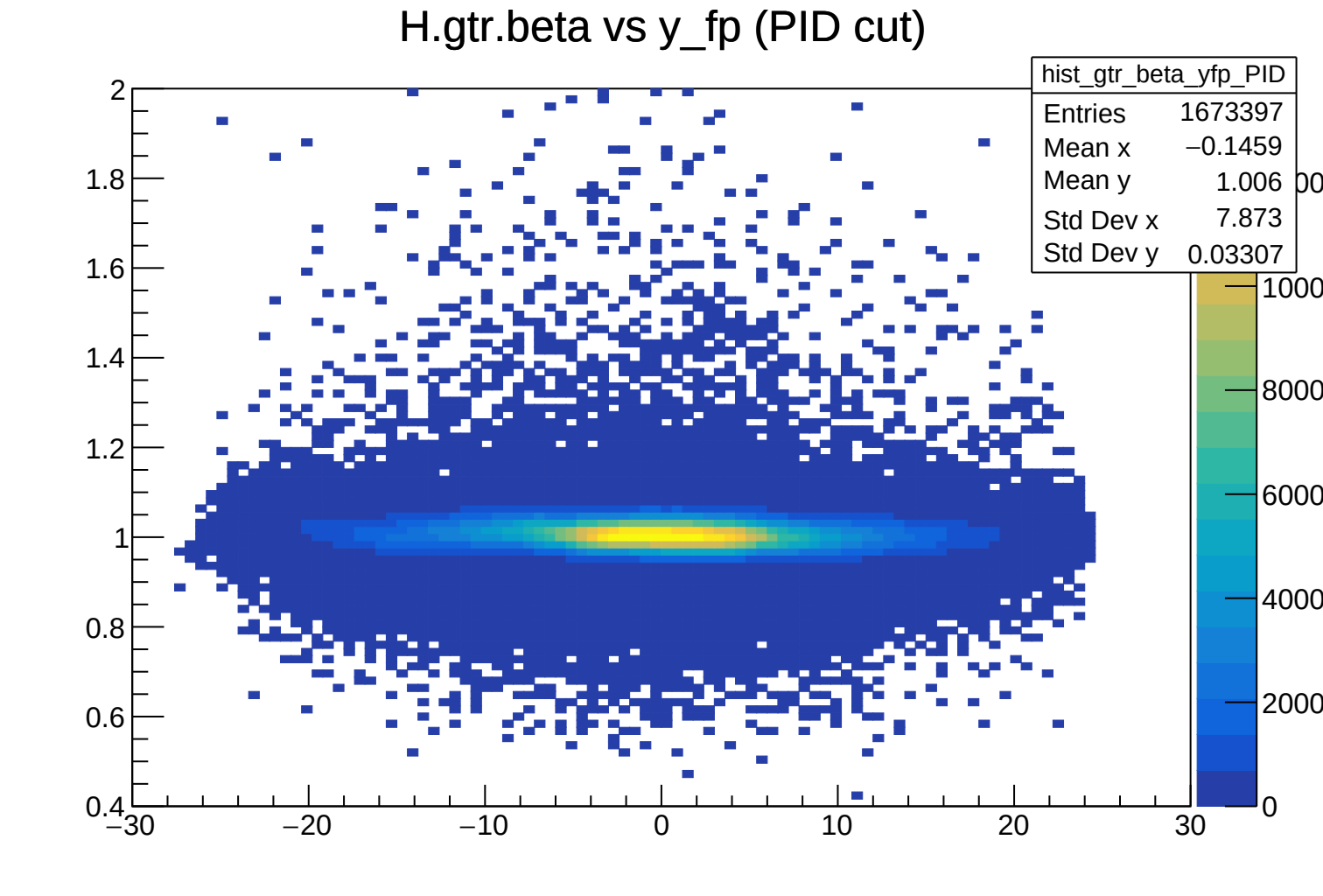

H.gtr.beta vs x_fp
hist_gtr_beta_xfp
Entries 2370059
Mean x −9.584
Mean y 1.005
Std Dev x 23.94
Std Dev y 0.03832
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−50
−40
−30
−20
−10
0
10
20
30
40
50
5000
4000
3000
2000
1000
0

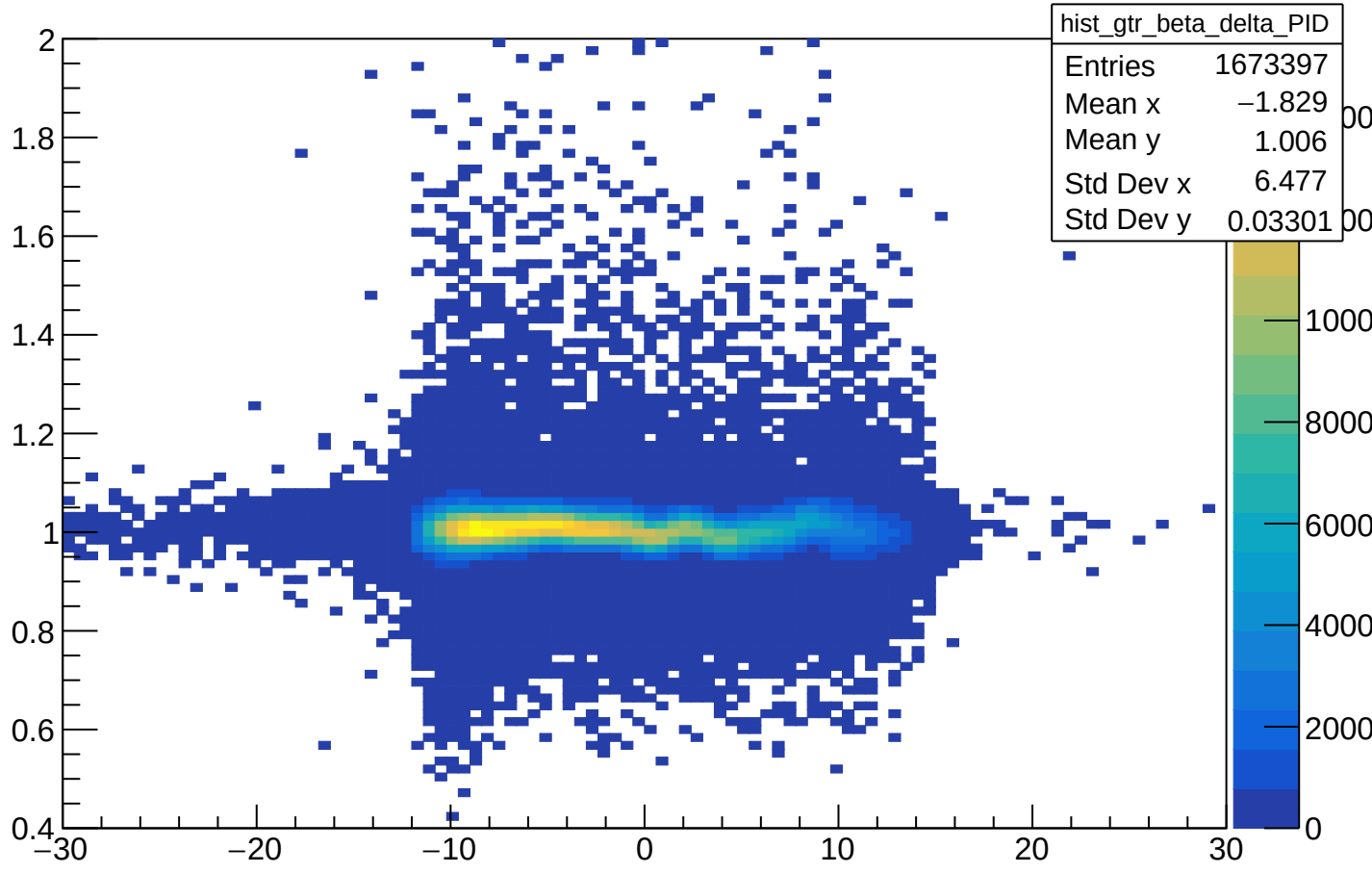

H.gtr.beta vs y_fp
hist_gtr_beta_yfp
Entries 2370059
Mean x −0.615
Mean y 1.005
Std Dev x 8.382
Std Dev y 0.03872
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
1000
8000
6000
4000
2000
0

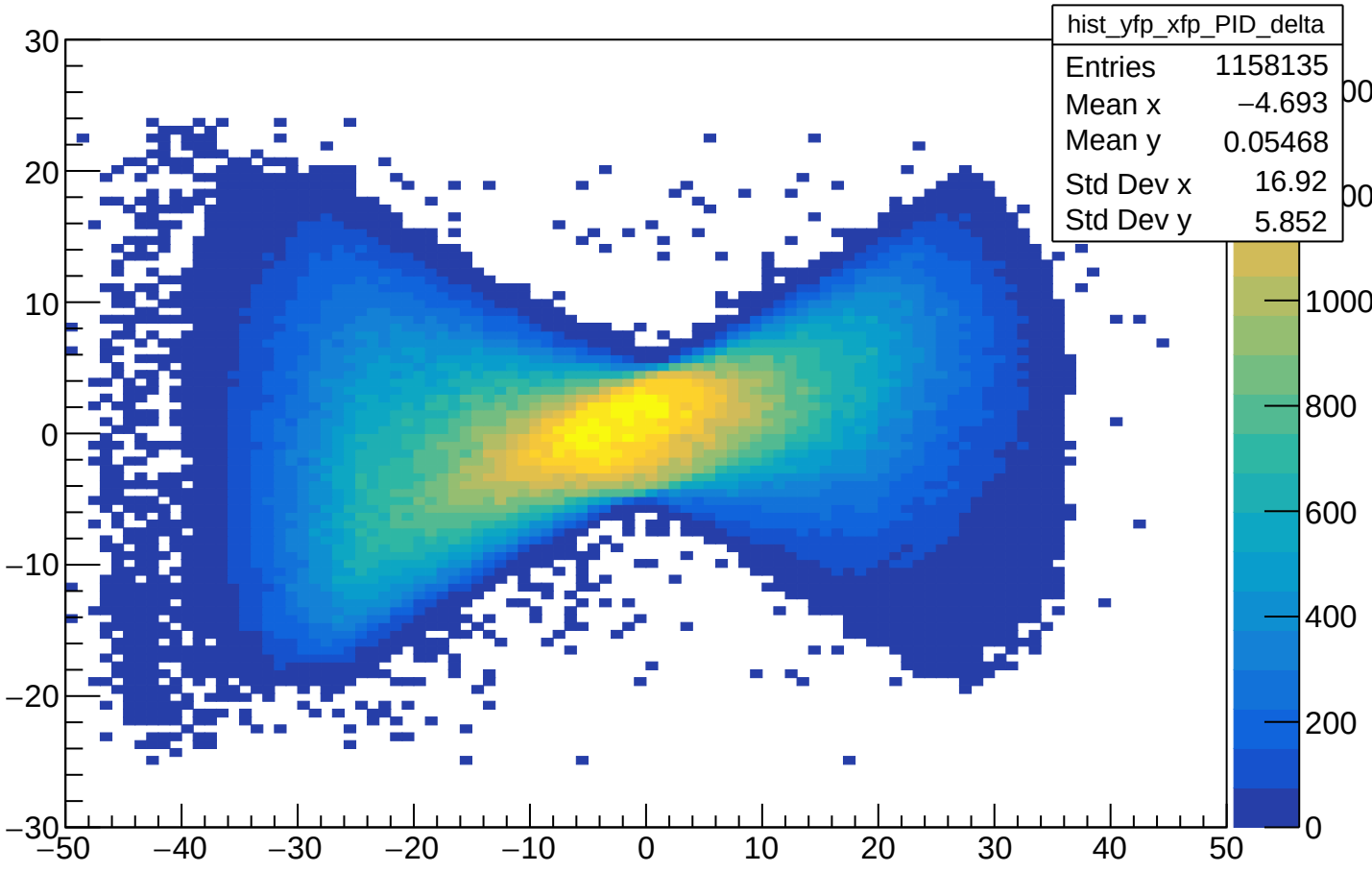

H.gtr.beta vs delta
hist_gtr_beta_delta
Entries 2370059
Mean x −2.218
Mean y 1.005
Std Dev x 6.51
Std Dev y 0.03685
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
1400
1200
1000
8000
6000
4000
2000
0

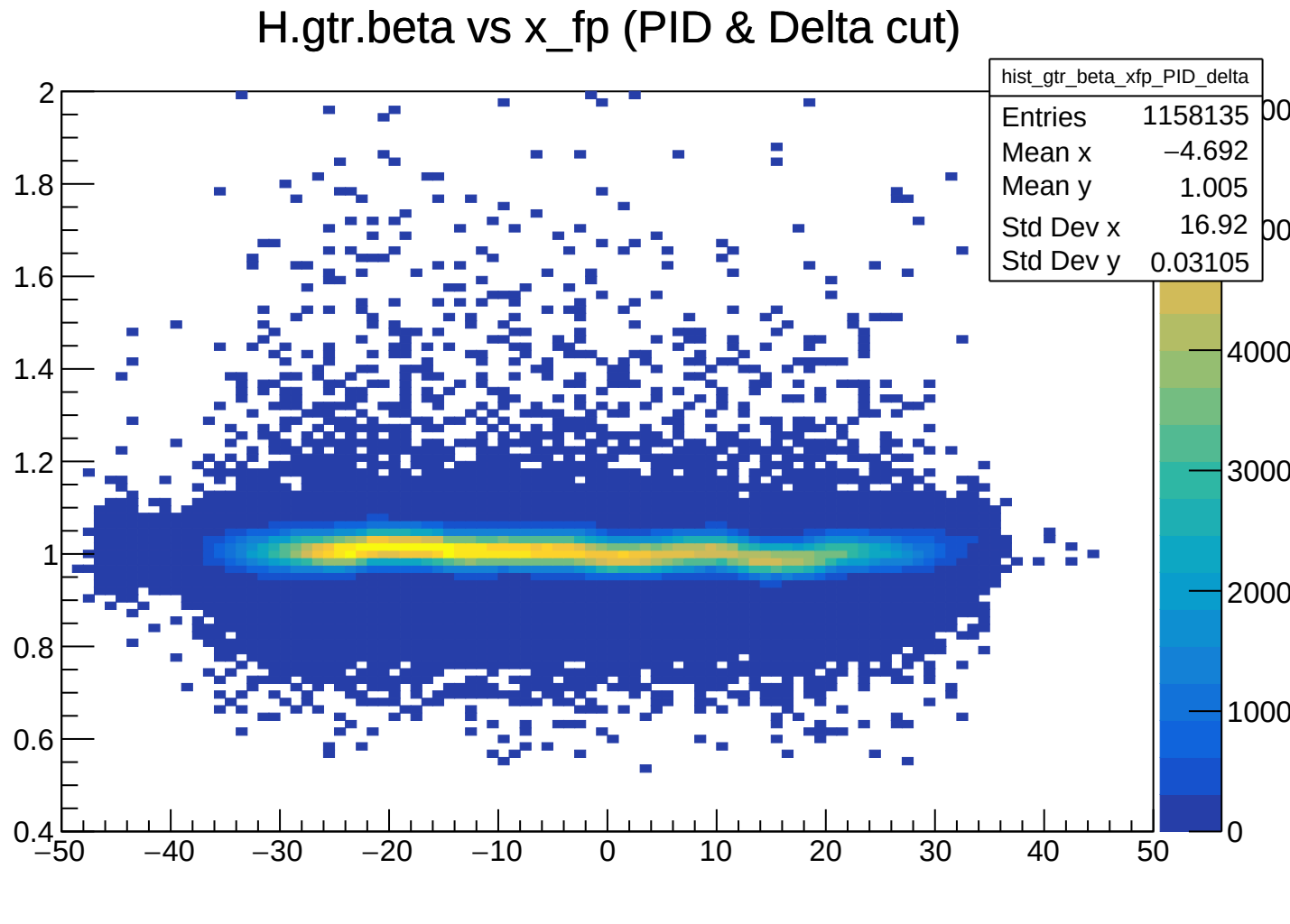

focal plane (PID cut)
hist_yfp_xfp_PID
Entries 1673397
Mean x −7.825
Mean y −0.1469
Std Dev x 23.79
Std Dev y 7.873
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
1000
800
600
400
200
0

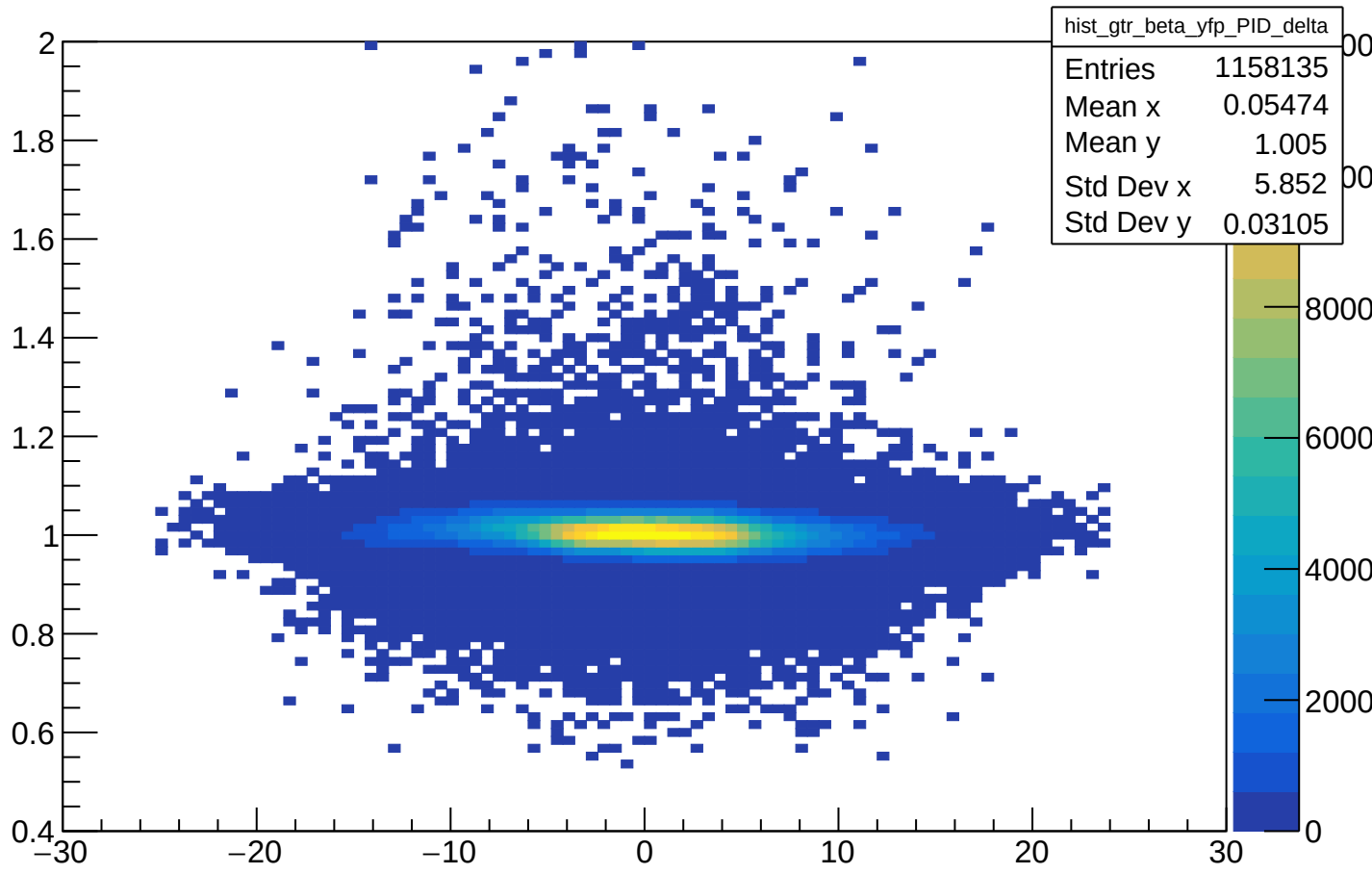

H.gtr.beta vs x_fp (PID cut)
hist_gtr_beta_xfp_PID
Entries 1673397
Mean x −7.792
Mean y 1.006
Std Dev x 23.78
Std Dev y 0.03307
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−50
−40
−30
−20
−10
0
10
20
30
40
50
4000
3000
2000
1000
0

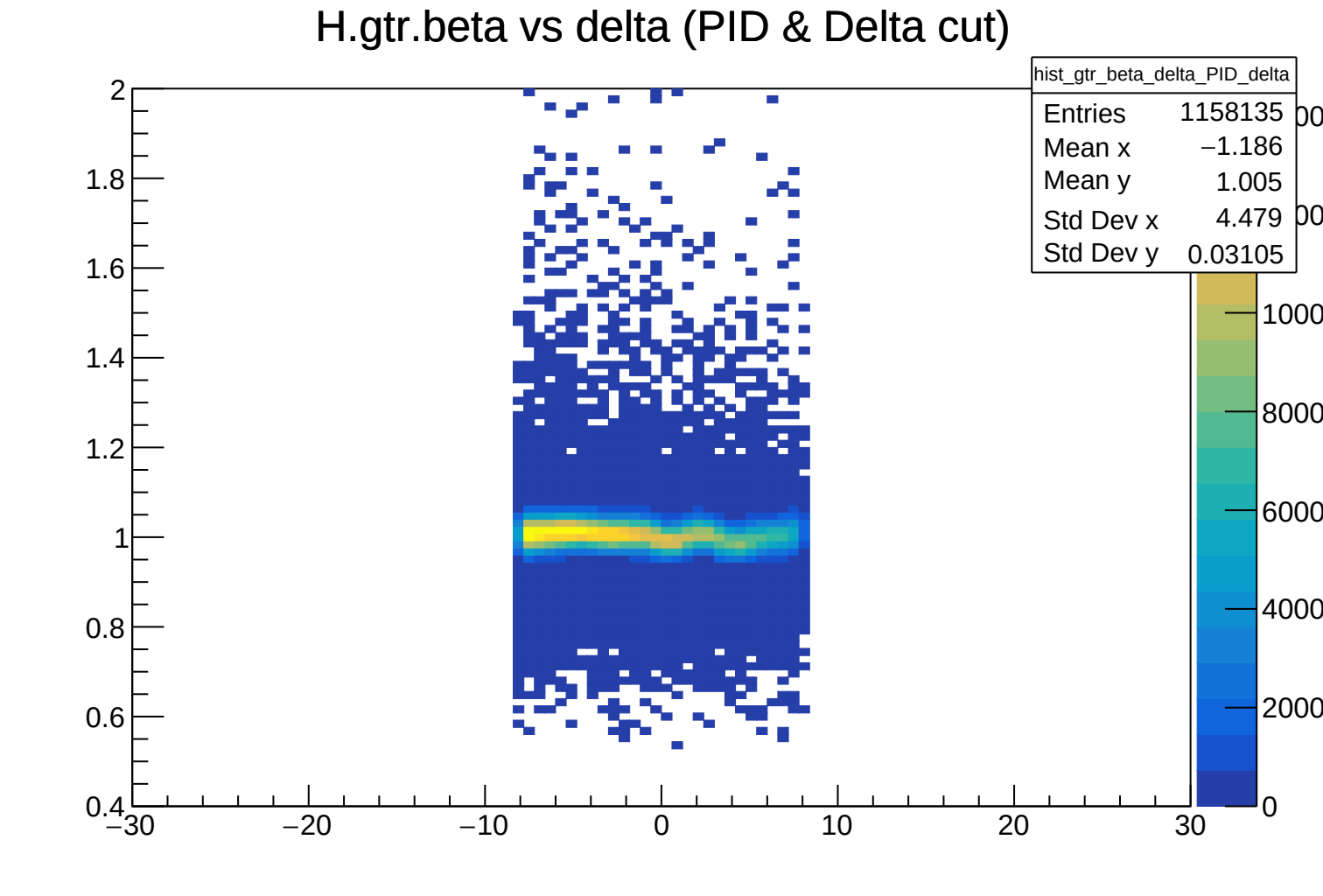

H.gtr.beta vs y_fp (PID cut)
hist_gtr_beta_yfp_PID
Entries 1673397
Mean x −0.1459
Mean y 1.006
Std Dev x 7.873
Std Dev y 0.03307
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
1000
8000
6000
4000
2000
0


H.gtr.beta vs delta (PID cut)
hist_gtr_beta_delta_PID
Entries 1673397
Mean x −1.829
Mean y 1.006
Std Dev x 6.477
Std Dev y 0.03301
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
1000
8000
6000
4000
2000
0


focal plane (PID & Delta cut)
hist_yfp_xfp_PID_delta
Entries 1158135
Mean x −4.693
Mean y 0.05468
Std Dev x 16.92
Std Dev y 5.852
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
1000
800
600
400
200
0


H.gtr.beta vs x_fp (PID & Delta cut)
hist_gtr_beta_xfp_PID_delta
Entries 1158135
Mean x −4.692
Mean y 1.005
Std Dev x 16.92
Std Dev y 0.03105
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−50
−40
−30
−20
−10
0
10
20
30
40
50
4000
3000
2000
1000
0


H.gtr.beta vs y_fp (PID & Delta cut)
hist_gtr_beta_yfp_PID_delta
Entries 1158135
Mean x 0.05474
Mean y 1.005
Std Dev x 5.852
Std Dev y 0.03105
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
8000
6000
4000
2000
0


H.gtr.beta vs delta (PID & Delta cut)
hist_gtr_beta_delta_PID_delta
Entries 1158135
Mean x −1.186
Mean y 1.005
Std Dev x 4.479
Std Dev y 0.03105
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
1000
8000
6000
4000
2000
0