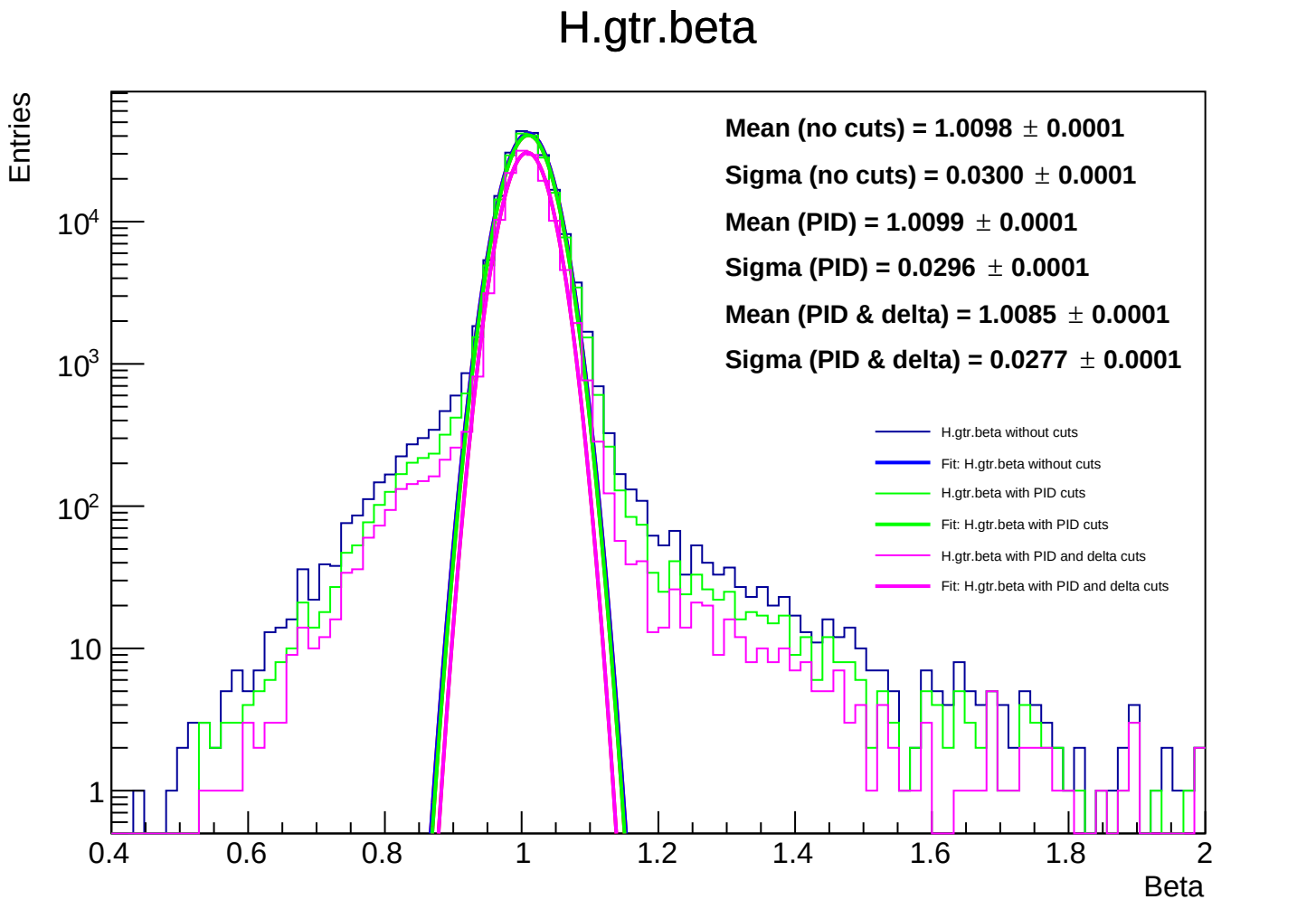
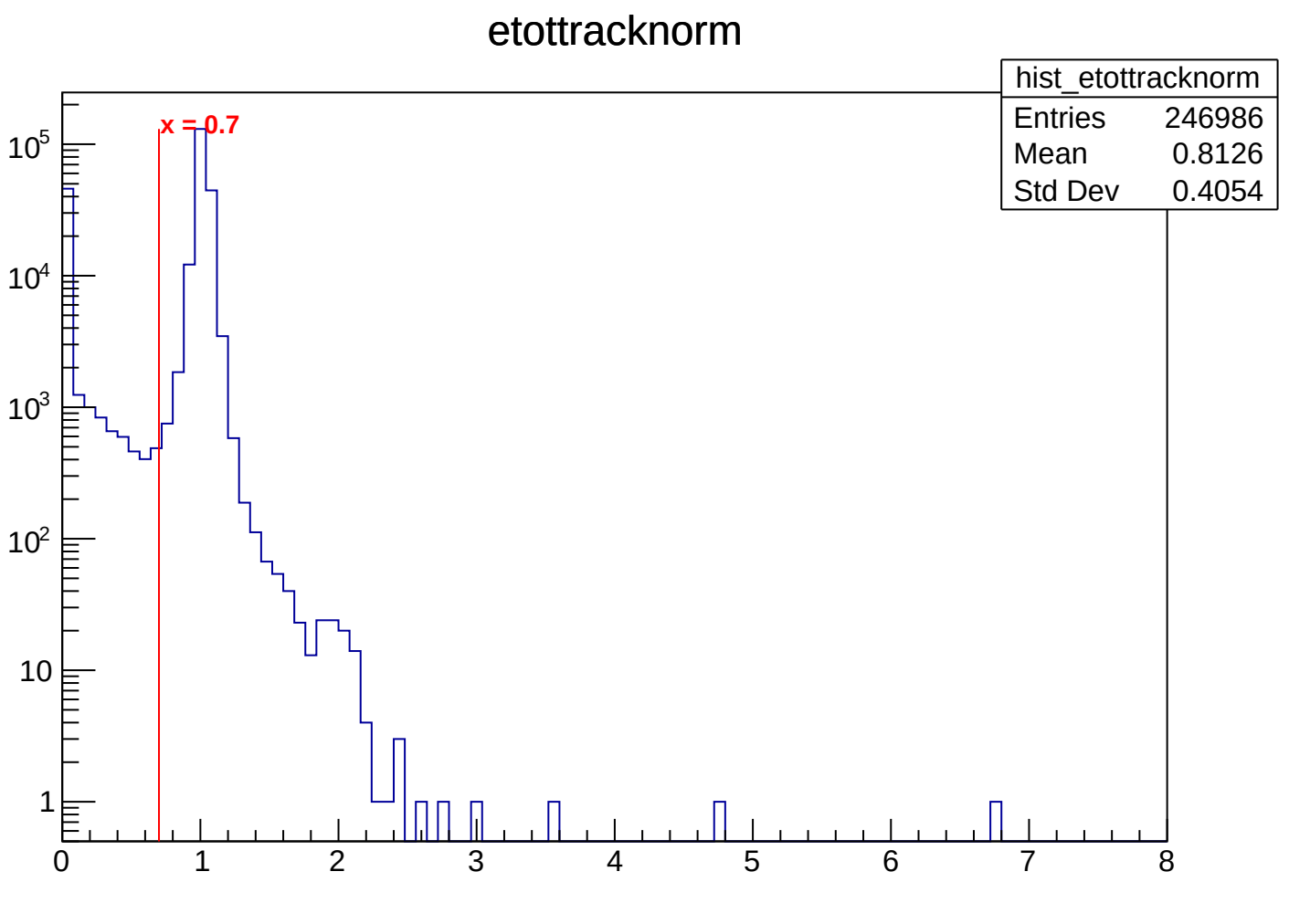
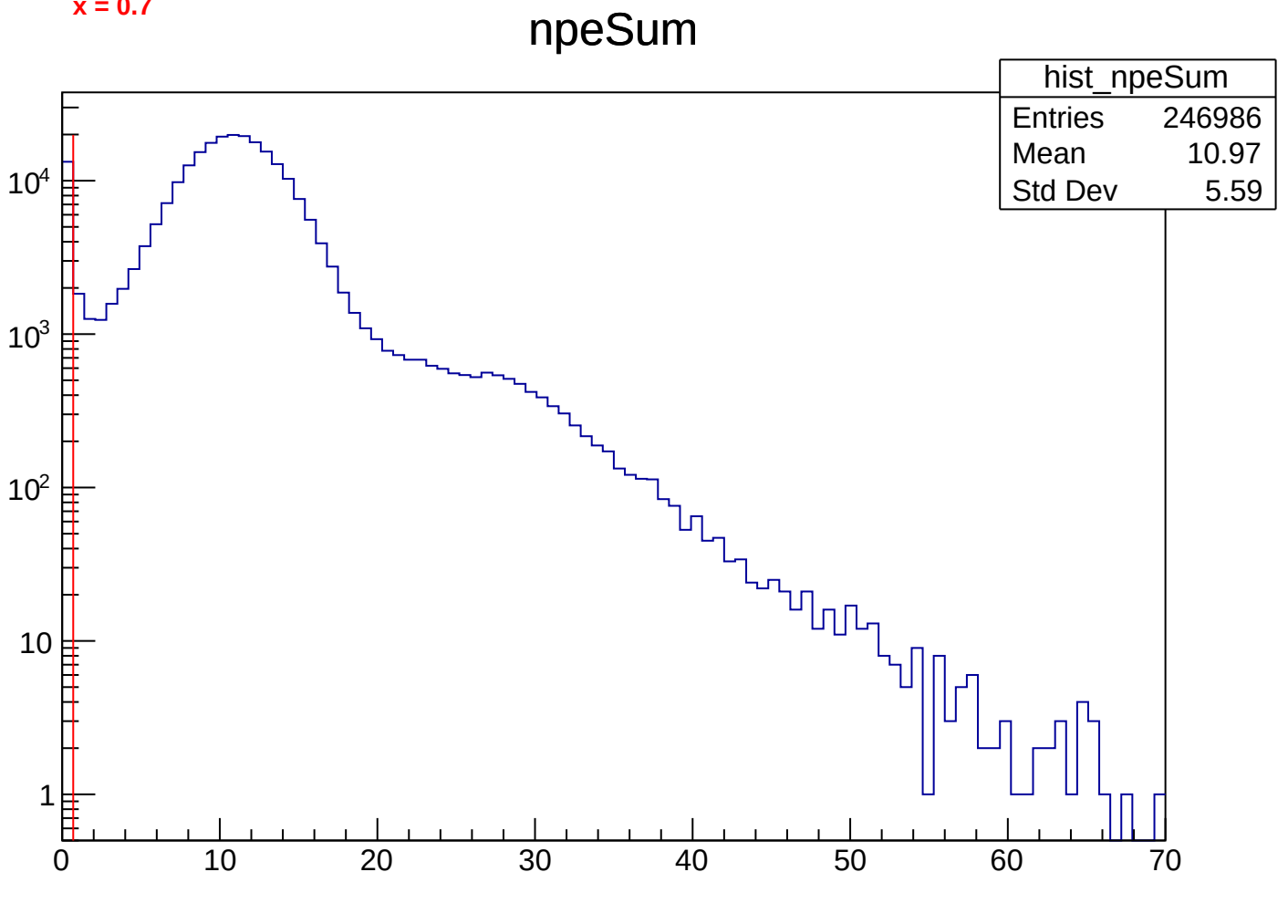
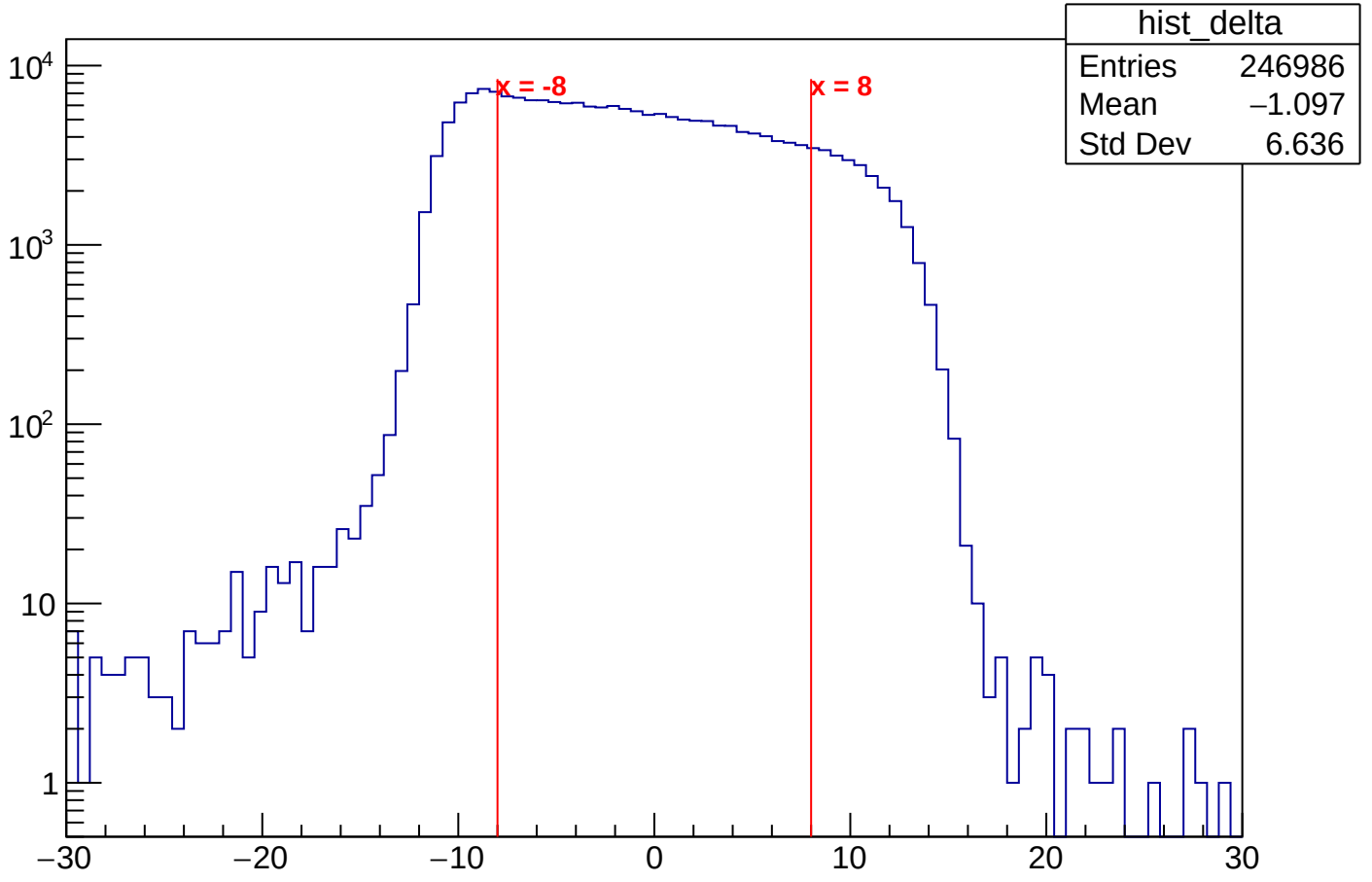
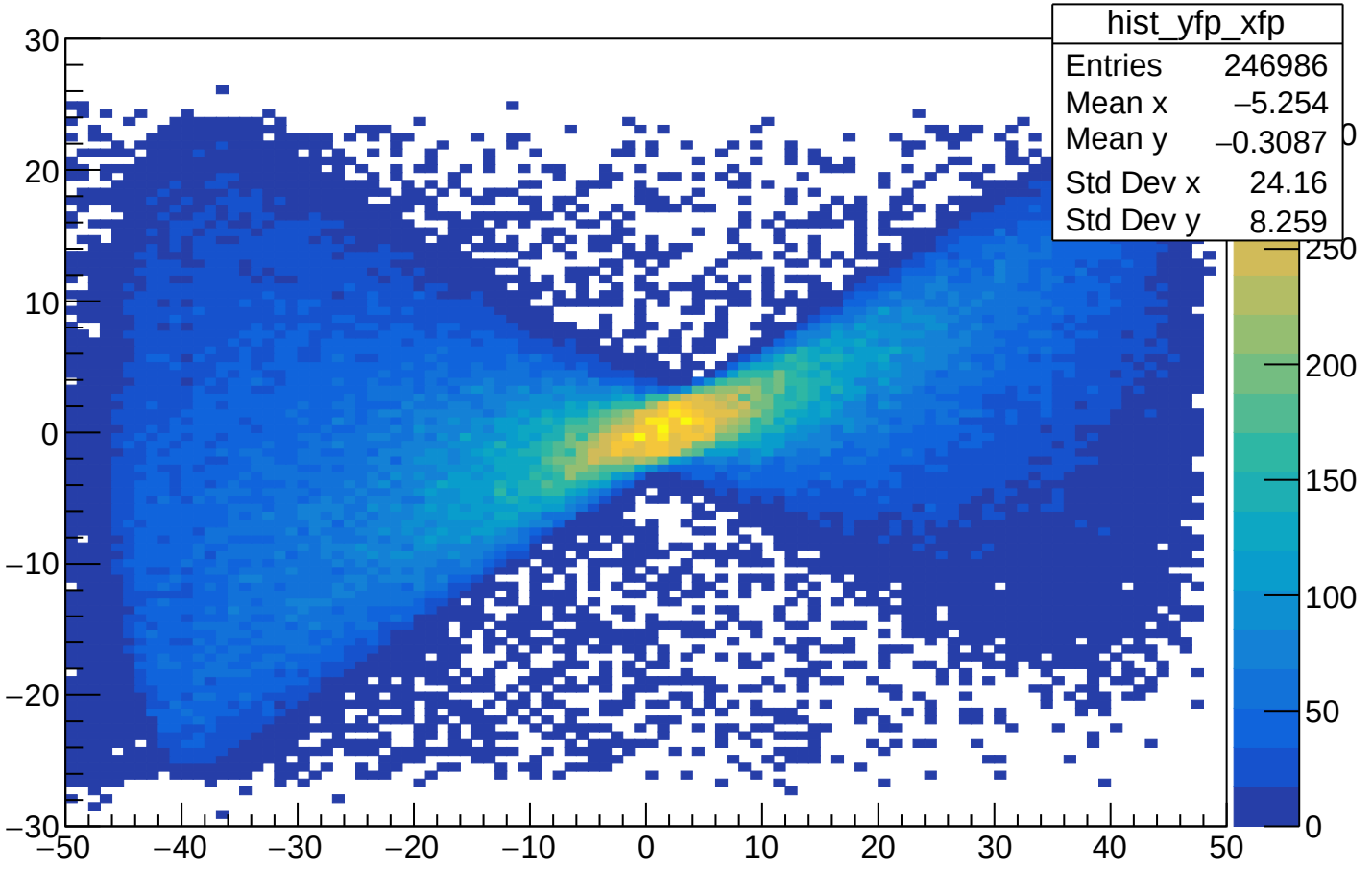
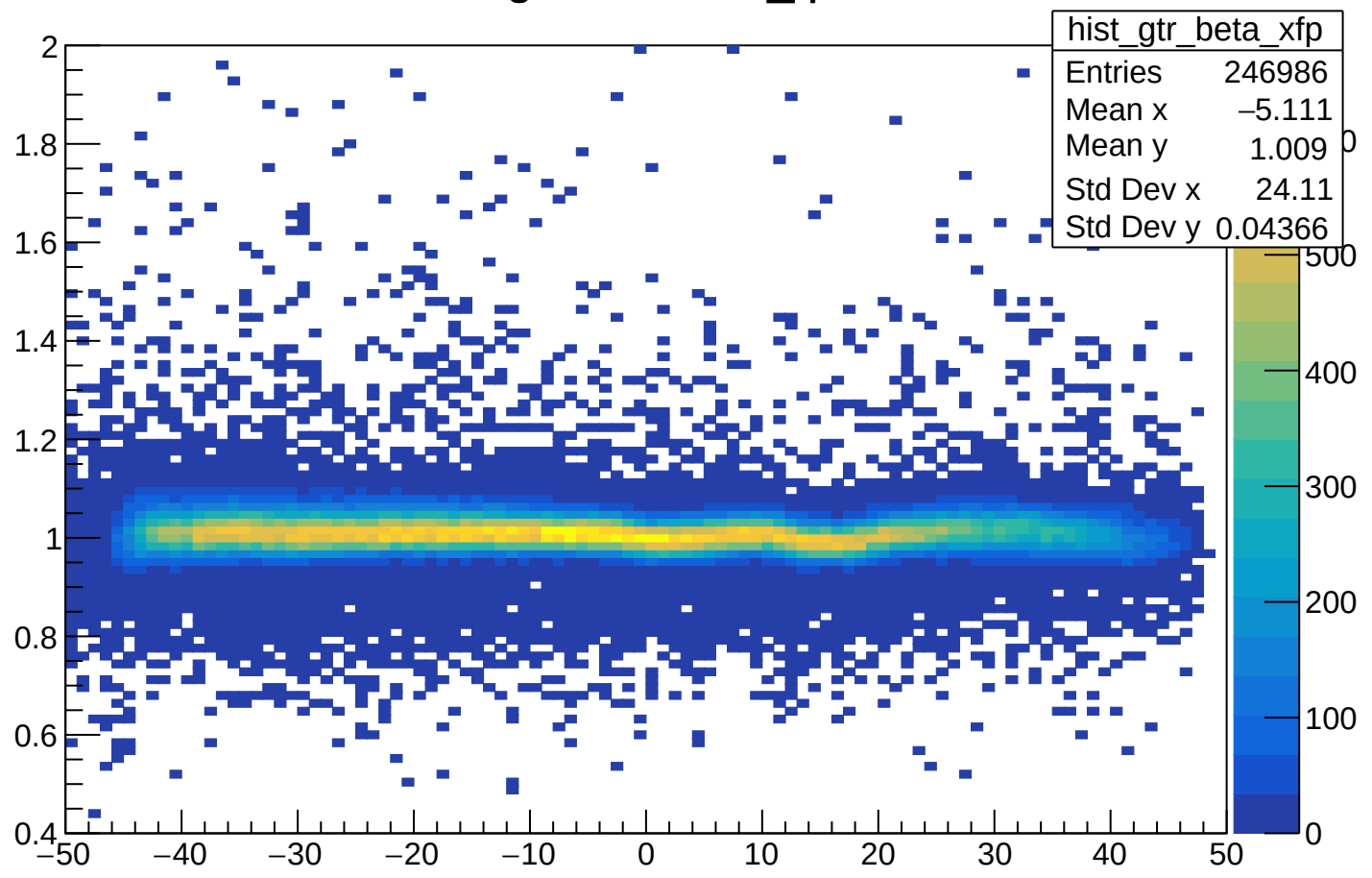

H.gtr.beta
Entries
Beta
Mean (no cuts) = 1.0098 ± 0.0001
Sigma (no cuts) = 0.0300 ± 0.0001
Mean (PID) = 1.0099 ± 0.0001
Sigma (PID) = 0.0296 ± 0.0001
Mean (PID & delta) = 1.0085 ± 0.0001
Sigma (PID & delta) = 0.0277 ± 0.0001
H.gtr.beta without cuts
Fit: H.gtr.beta without cuts
H.gtr.beta with PID cuts
Fit: H.gtr.beta with PID cuts
H.gtr.beta with PID and delta cuts
Fit: H.gtr.beta with PID and delta cuts

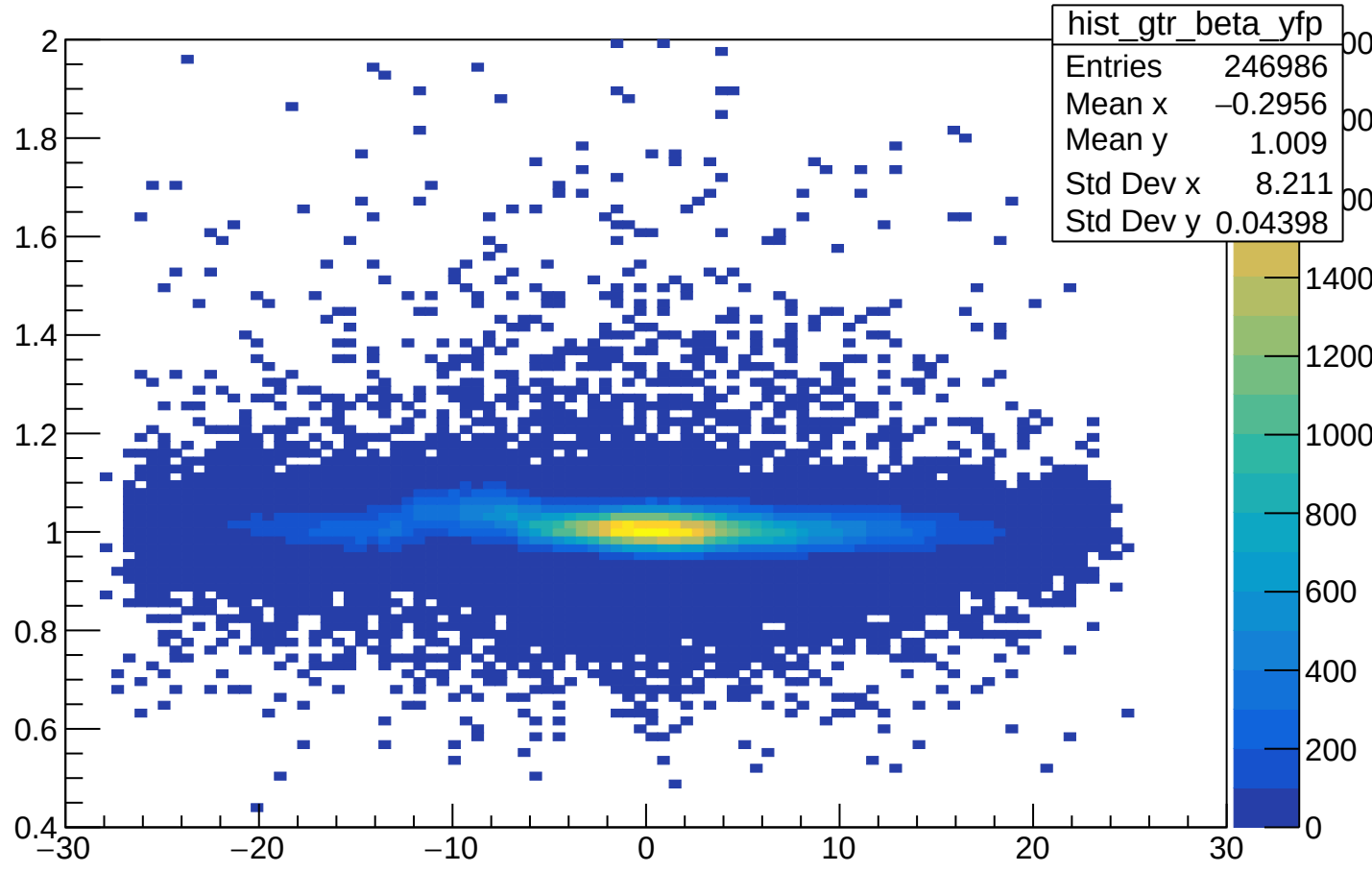

etottracknorm
hist_etottracknorm
Entries 246986
Mean 0.8126
Std Dev 0.4054
x = 0.7
10^5
10^4
10^3
10^2
10
1
0
1
2
3
4
5
6
7
8

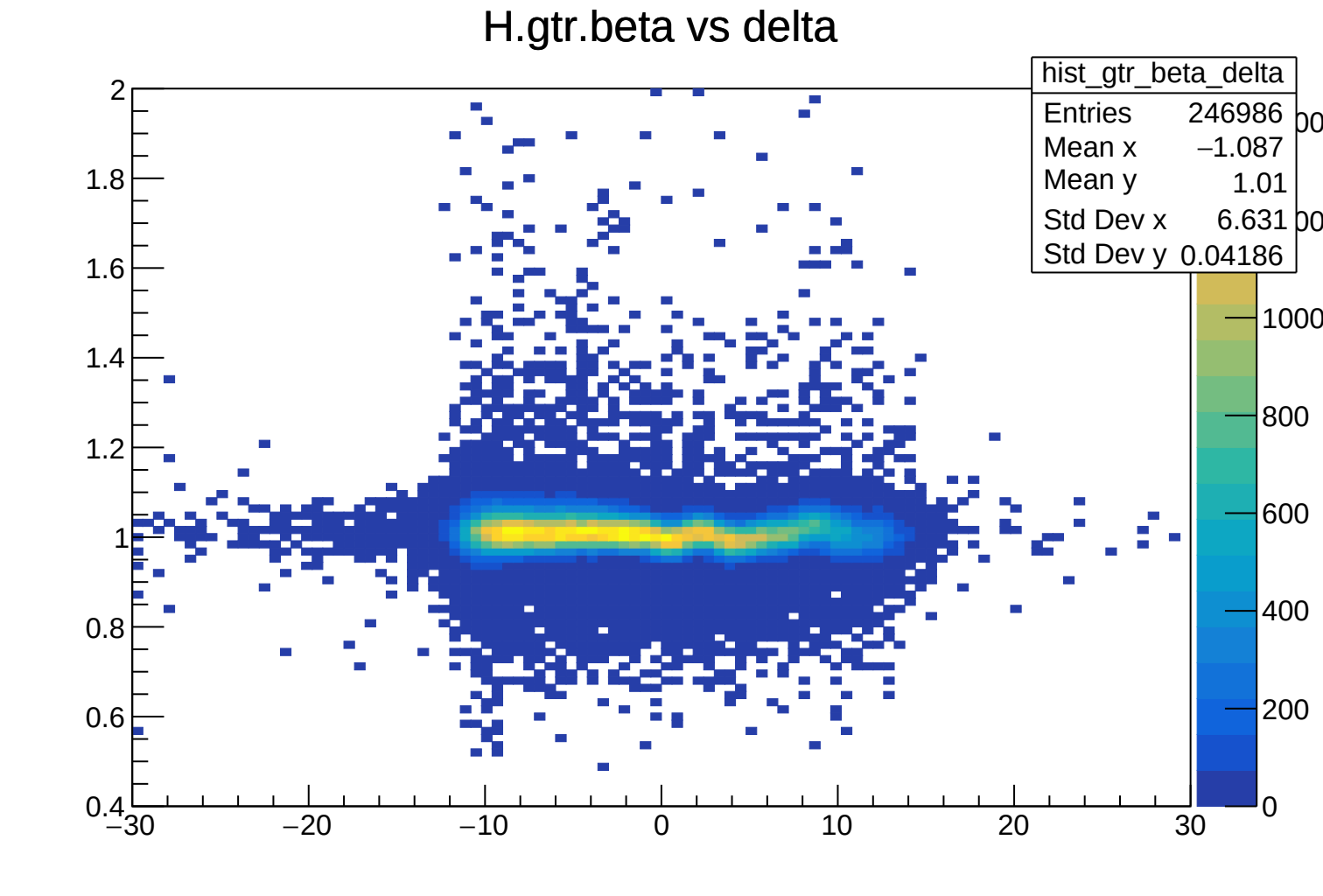

x = 0.7
npeSum
hist_npeSum
Entries 246986
Mean 10.97
Std Dev 5.59
10^4
10^3
10^2
10
1
0
10
20
30
40
50
60
70

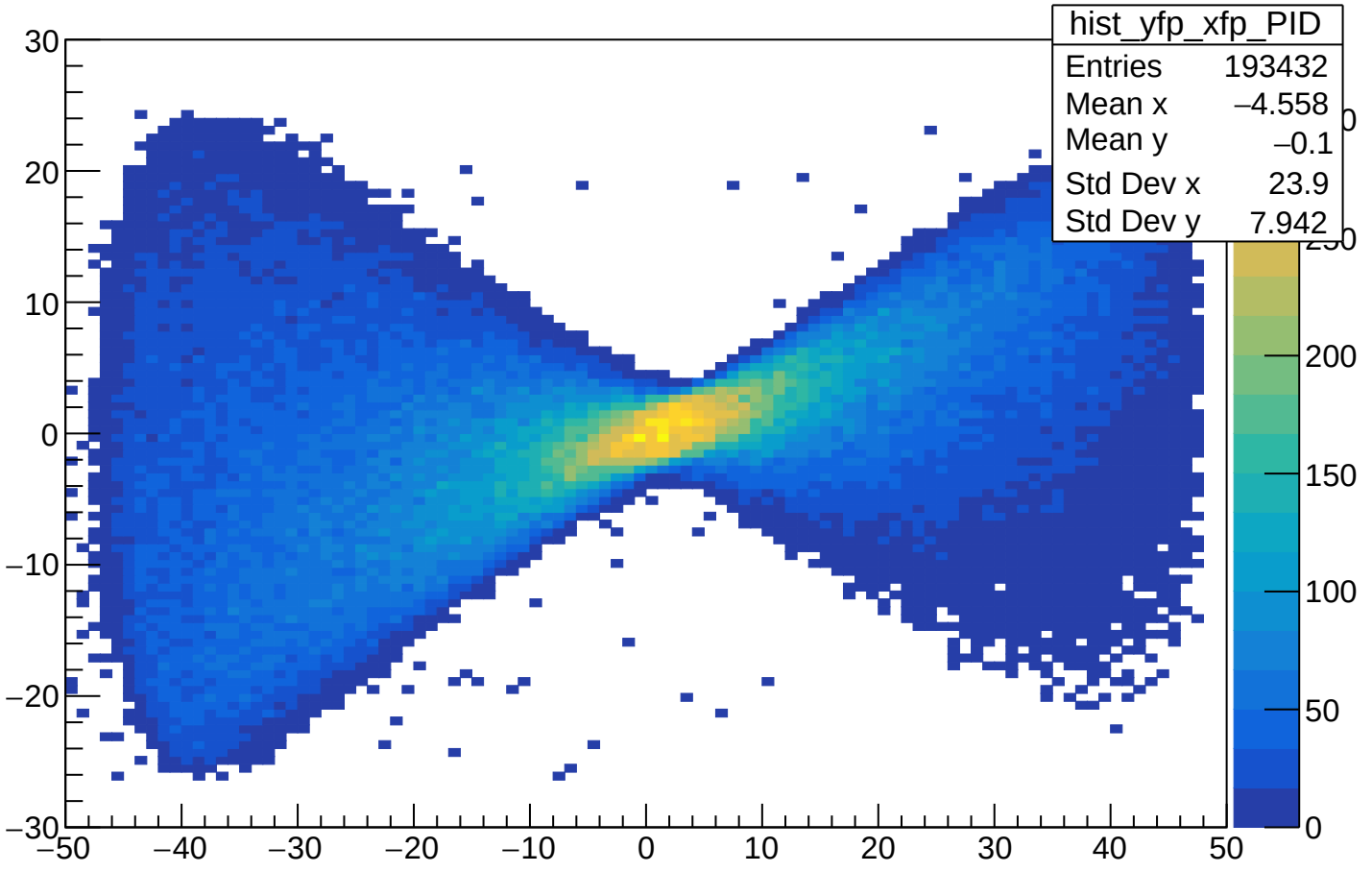

delta
hist_delta
Entries 246986
Mean −1.097
Std Dev 6.636
x = -8
x = 8
10^4
10^3
10^2
10
1
−30
−20
−10
0
10
20
30

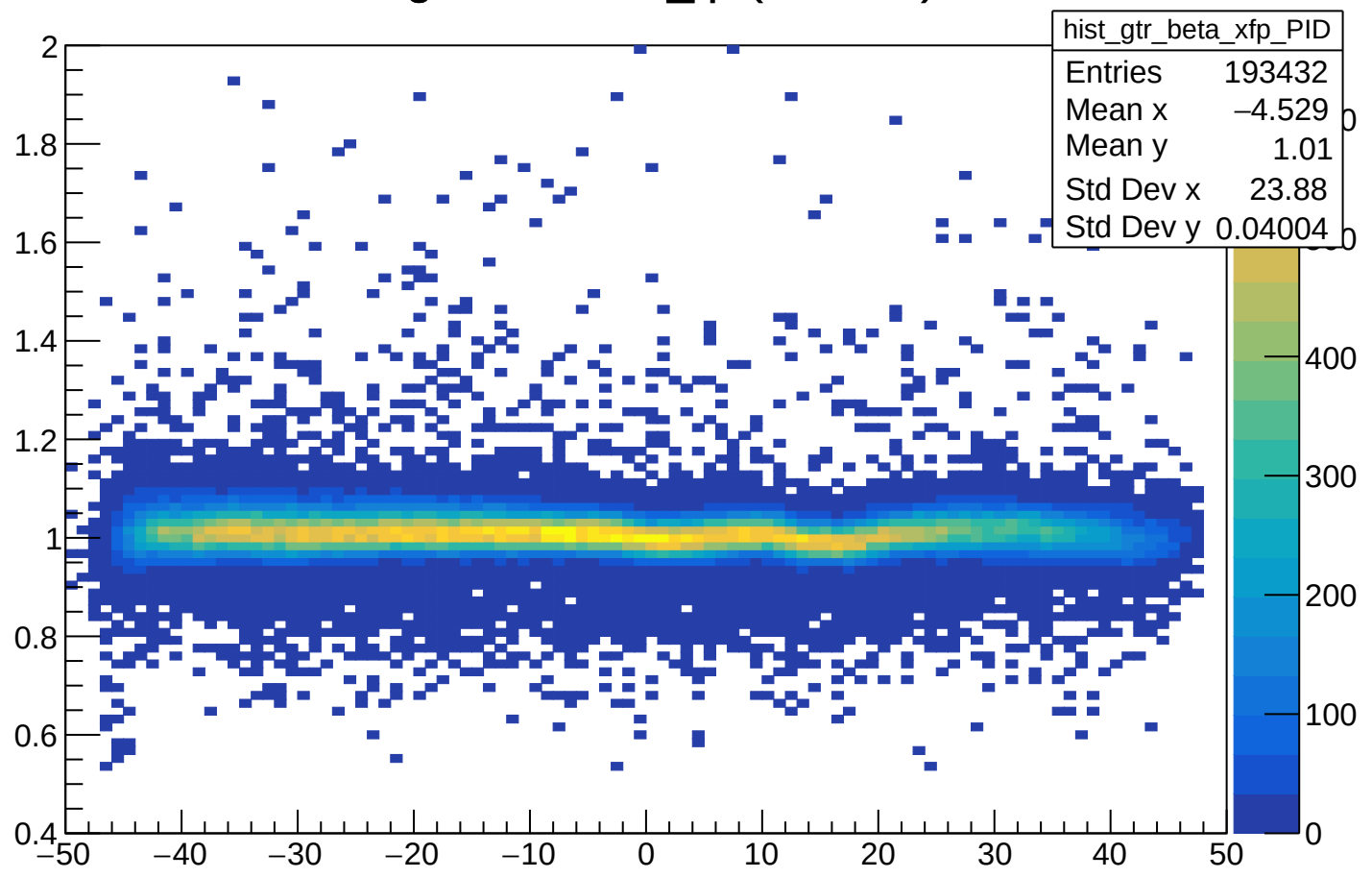

focal plane
hist_yfp_xfp
Entries 246986
Mean x −5.254
Mean y −0.3087
Std Dev x 24.16
Std Dev y 8.259
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
250
200
150
100
50
0

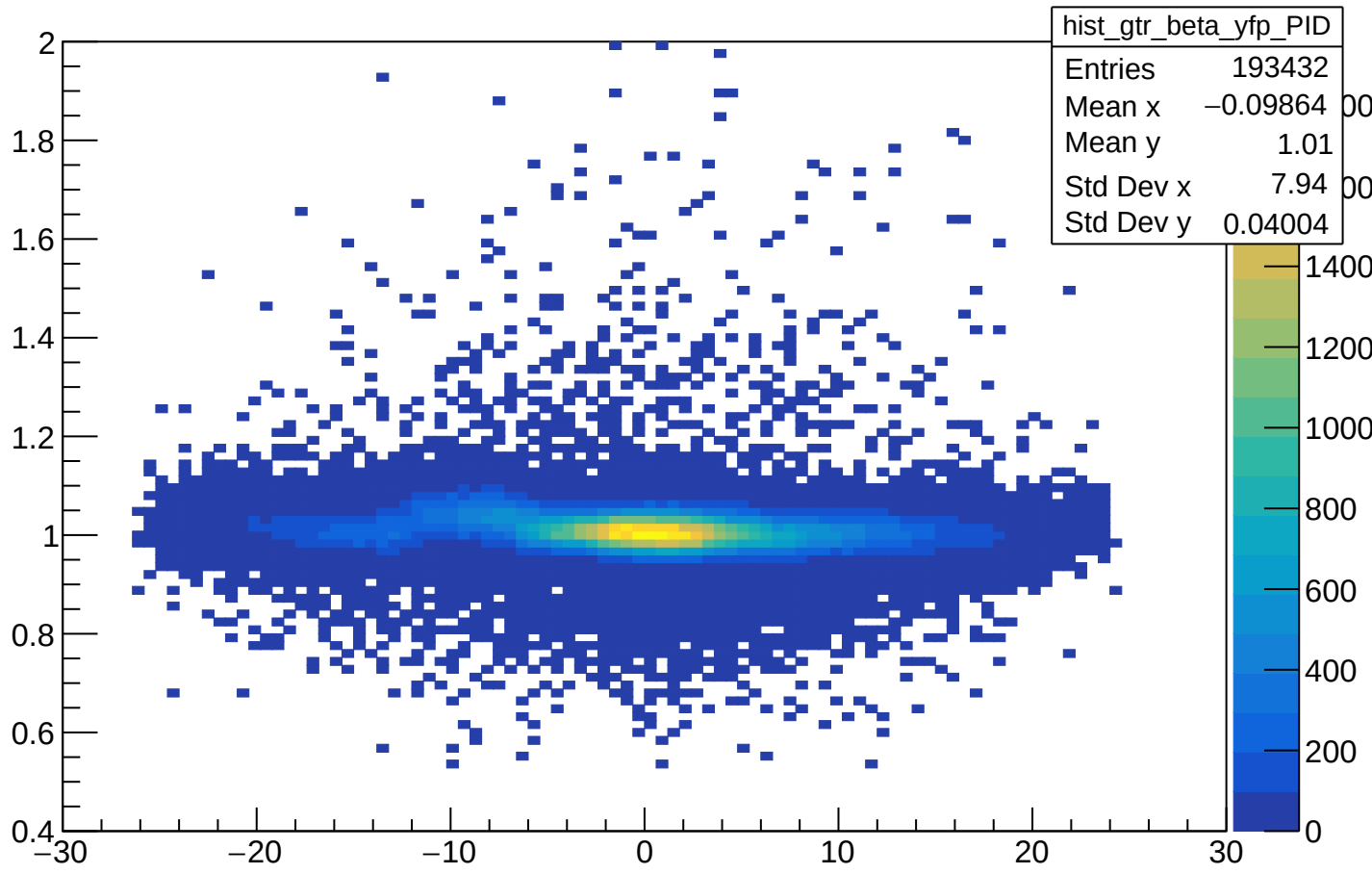

H.gtr.beta vs x_fp
hist_gtr_beta_xfp
Entries 246986
Mean x −5.111
Mean y 1.009
Std Dev x 24.11
Std Dev y 0.04366
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−50
−40
−30
−20
−10
0
10
20
30
40
50
500
400
300
200
100
0

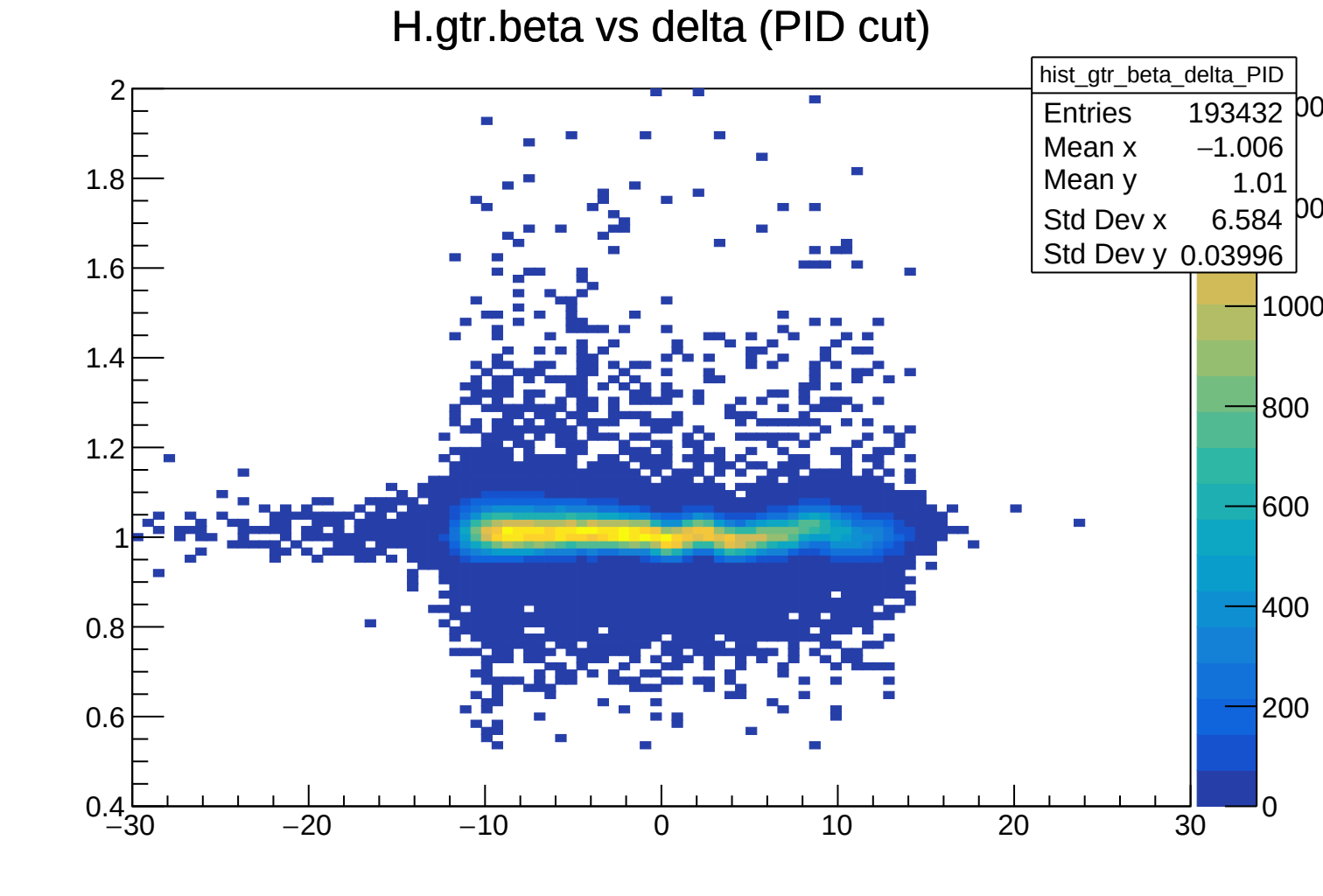

H.gtr.beta vs y_fp
hist_gtr_beta_yfp
Entries 246986
Mean x −0.2956
Mean y 1.009
Std Dev x 8.211
Std Dev y 0.04398
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
1400
1200
1000
800
600
400
200
0

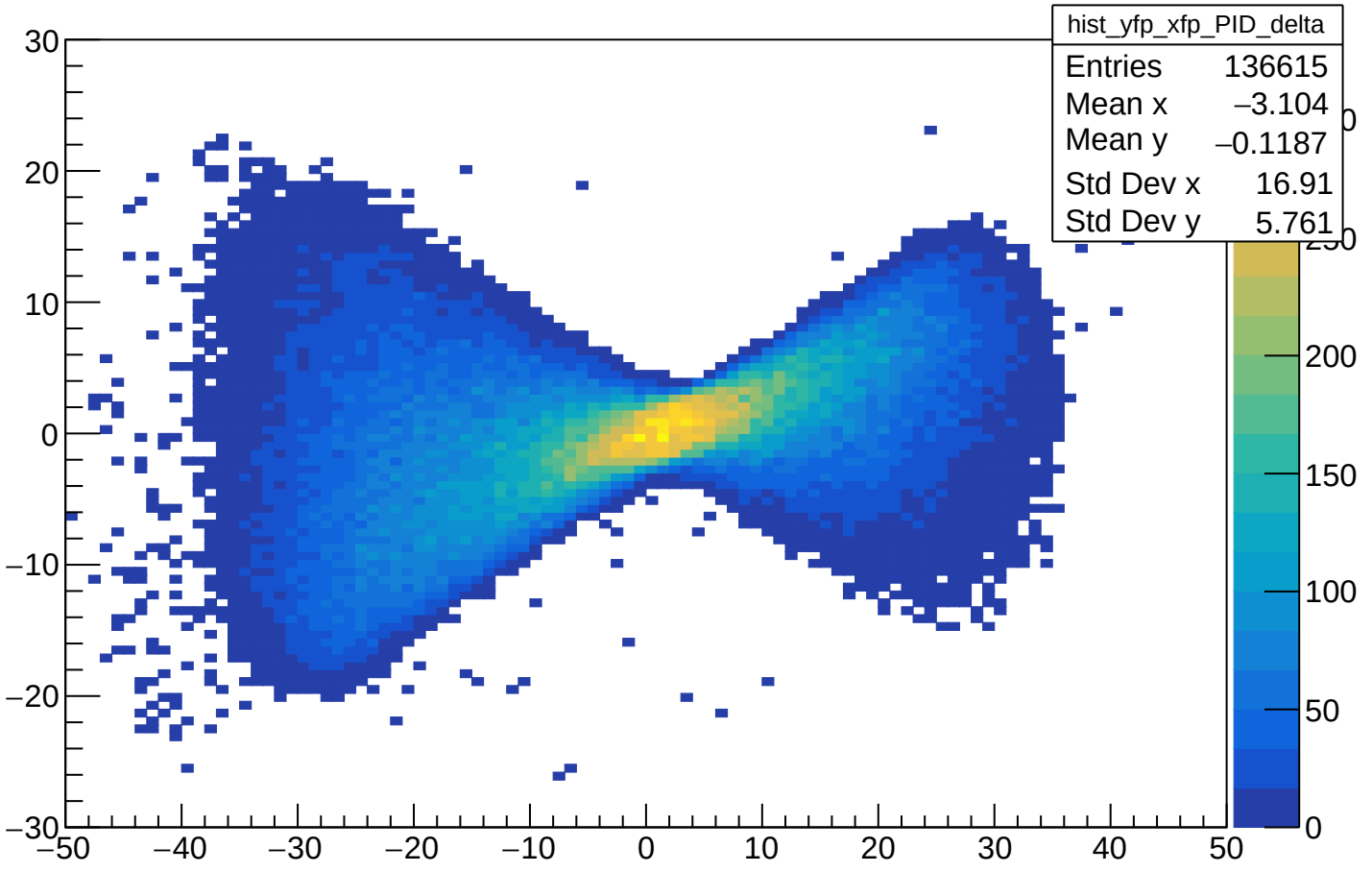

H.gtr.beta vs delta
hist_gtr_beta_delta
Entries 246986
Mean x −1.087
Mean y 1.01
Std Dev x 6.631
Std Dev y 0.04186
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
1000
800
600
400
200
0

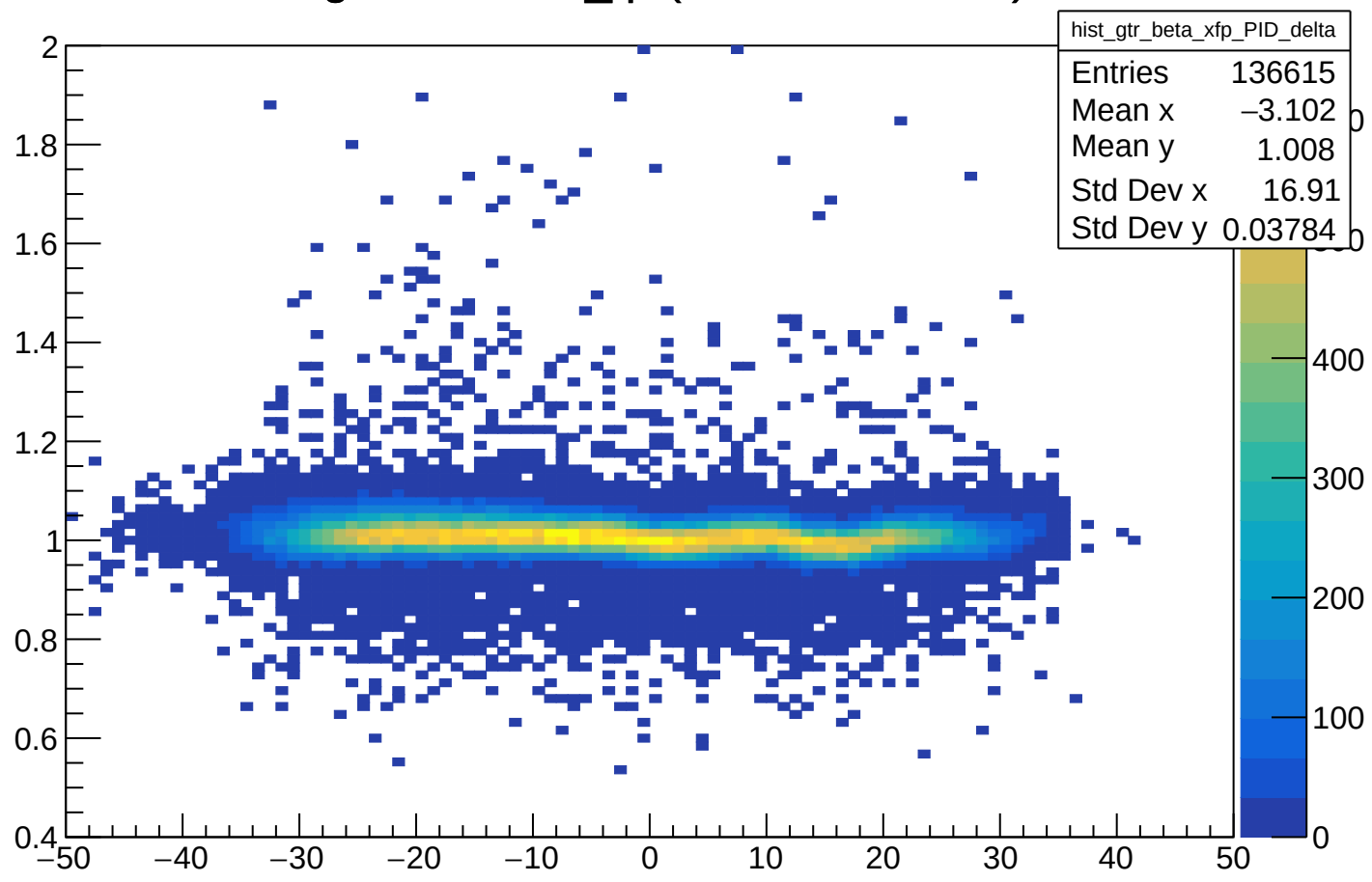

focal plane (PID cut)
hist_yfp_xfp_PID
Entries 193432
Mean x −4.558
Mean y −0.1
Std Dev x 23.9
Std Dev y 7.942
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
200
150
100
50
0

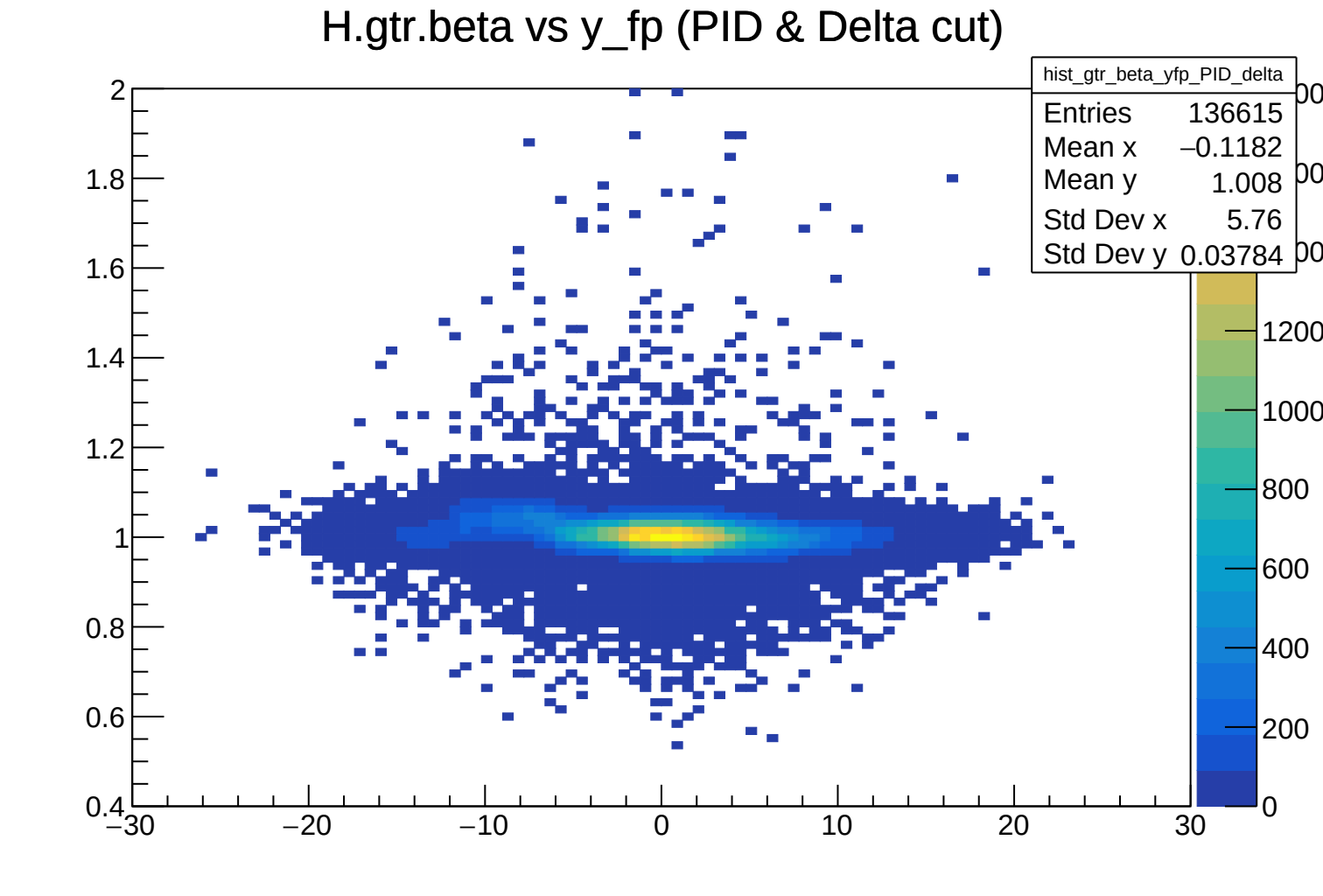

H.gtr.beta vs x_fp (PID cut)
hist_gtr_beta_xfp_PID
Entries 193432
Mean x −4.529
Mean y 1.01
Std Dev x 23.88
Std Dev y 0.04004
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−50
−40
−30
−20
−10
0
10
20
30
40
50
400
300
200
100
0

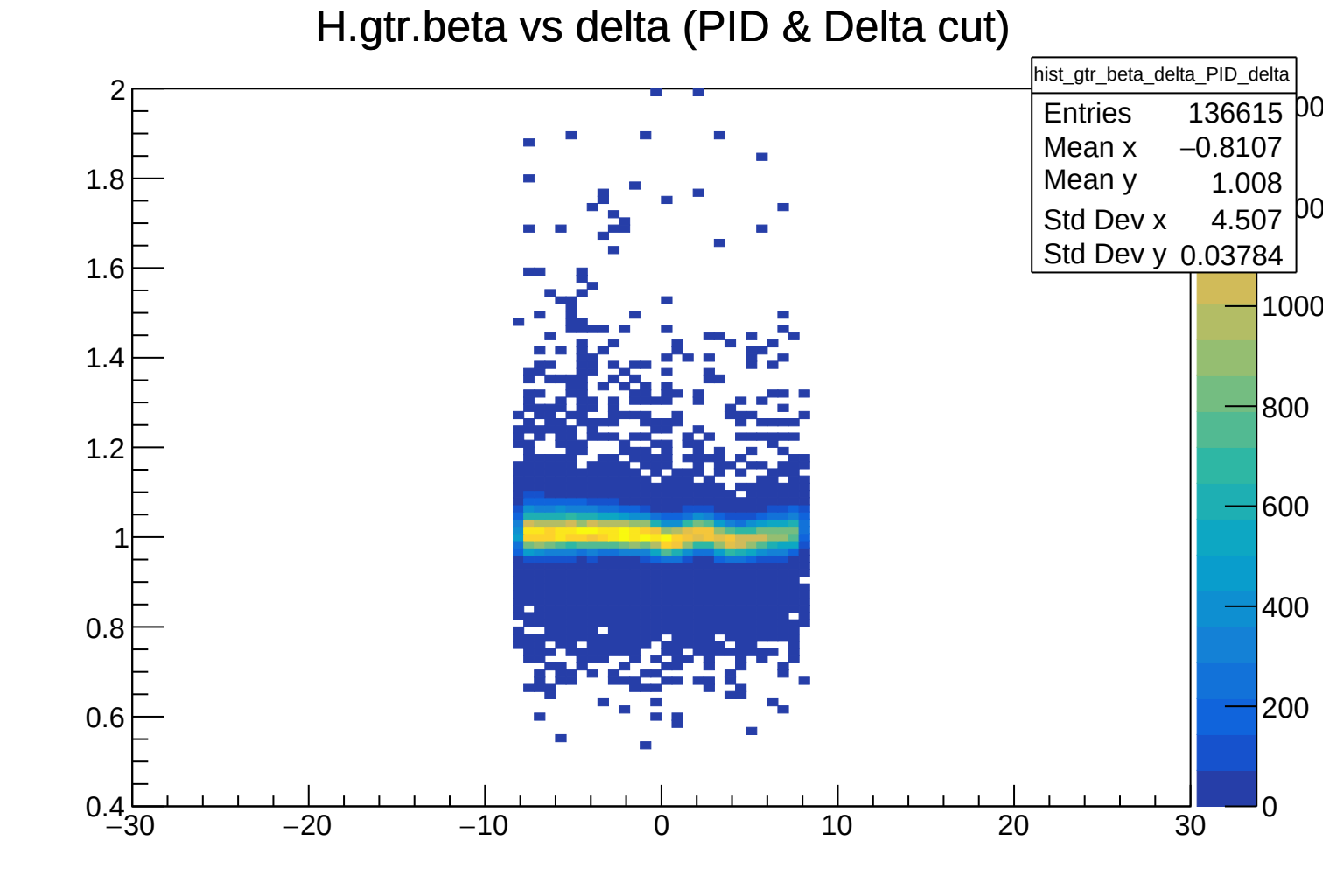

H.gtr.beta vs y_fp (PID cut)
hist_gtr_beta_yfp_PID
Entries 193432
Mean x −0.09864
Mean y 1.01
Std Dev x 7.94
Std Dev y 0.04004
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
1400
1200
1000
800
600
400
200
0


H.gtr.beta vs delta (PID cut)
hist_gtr_beta_delta_PID
Entries 193432
Mean x –1.006
Mean y 1.01
Std Dev x 6.584
Std Dev y 0.03996
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
–30
–20
–10
0
10
20
30
1000
800
600
400
200
0


focal plane (PID & Delta cut)
hist_yfp_xfp_PID_delta
Entries 136615
Mean x −3.104
Mean y −0.1187
Std Dev x 16.91
Std Dev y 5.761
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
250
200
150
100
50
0


H.gtr.beta vs x_fp (PID & Delta cut)
hist_gtr_beta_xfp_PID_delta
Entries 136615
Mean x −3.102
Mean y 1.008
Std Dev x 16.91
Std Dev y 0.03784
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
400
300
200
100
0


H.gtr.beta vs y_fp (PID & Delta cut)
hist_gtr_beta_yfp_PID_delta
Entries 136615
Mean x −0.1182
Mean y 1.008
Std Dev x 5.76
Std Dev y 0.03784
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
1200
1000
800
600
400
200
0


H.gtr.beta vs delta (PID & Delta cut)
hist_gtr_beta_delta_PID_delta
Entries 136615
Mean x −0.8107
Mean y 1.008
Std Dev x 4.507
Std Dev y 0.03784
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
1000
800
600
400
200
0