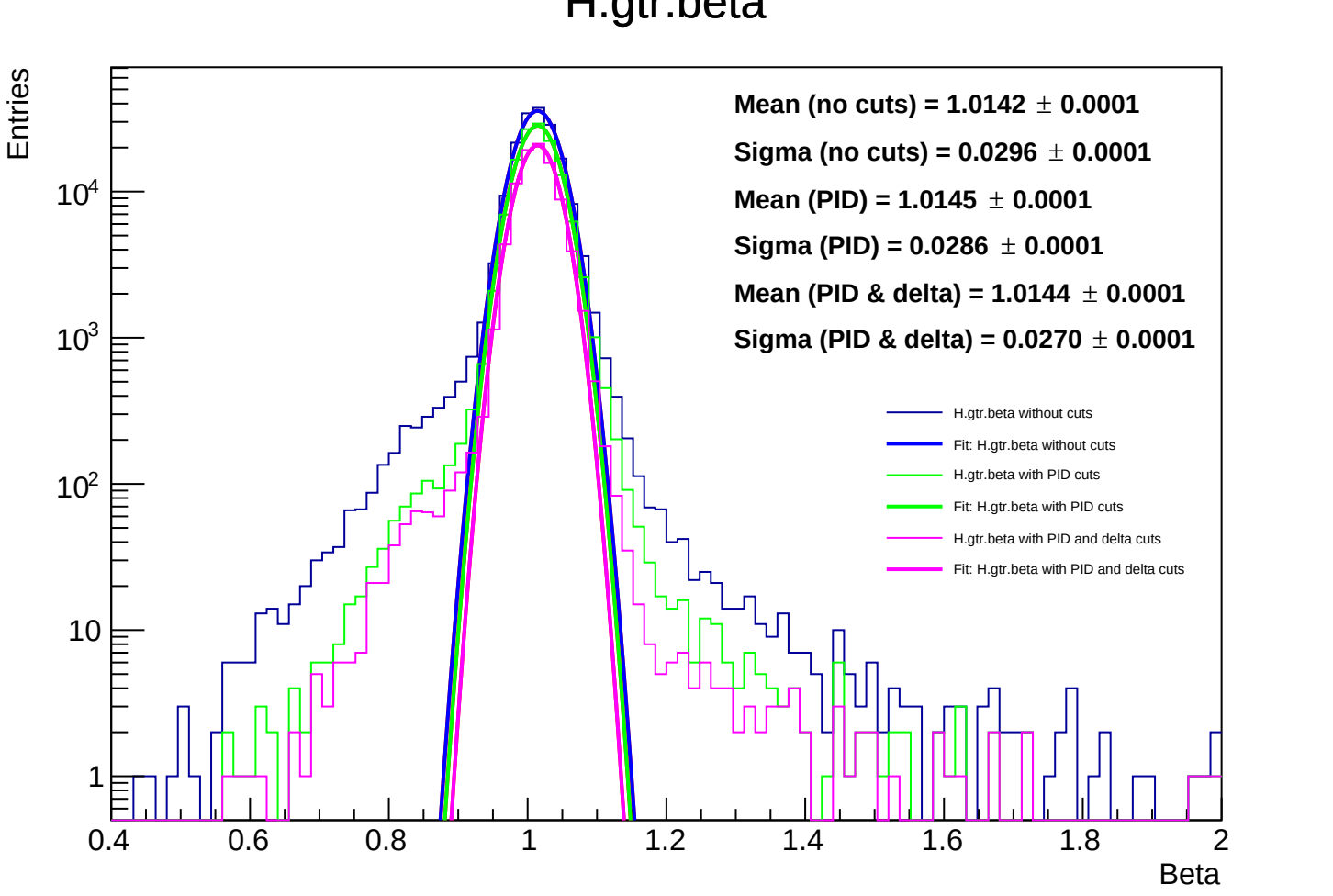
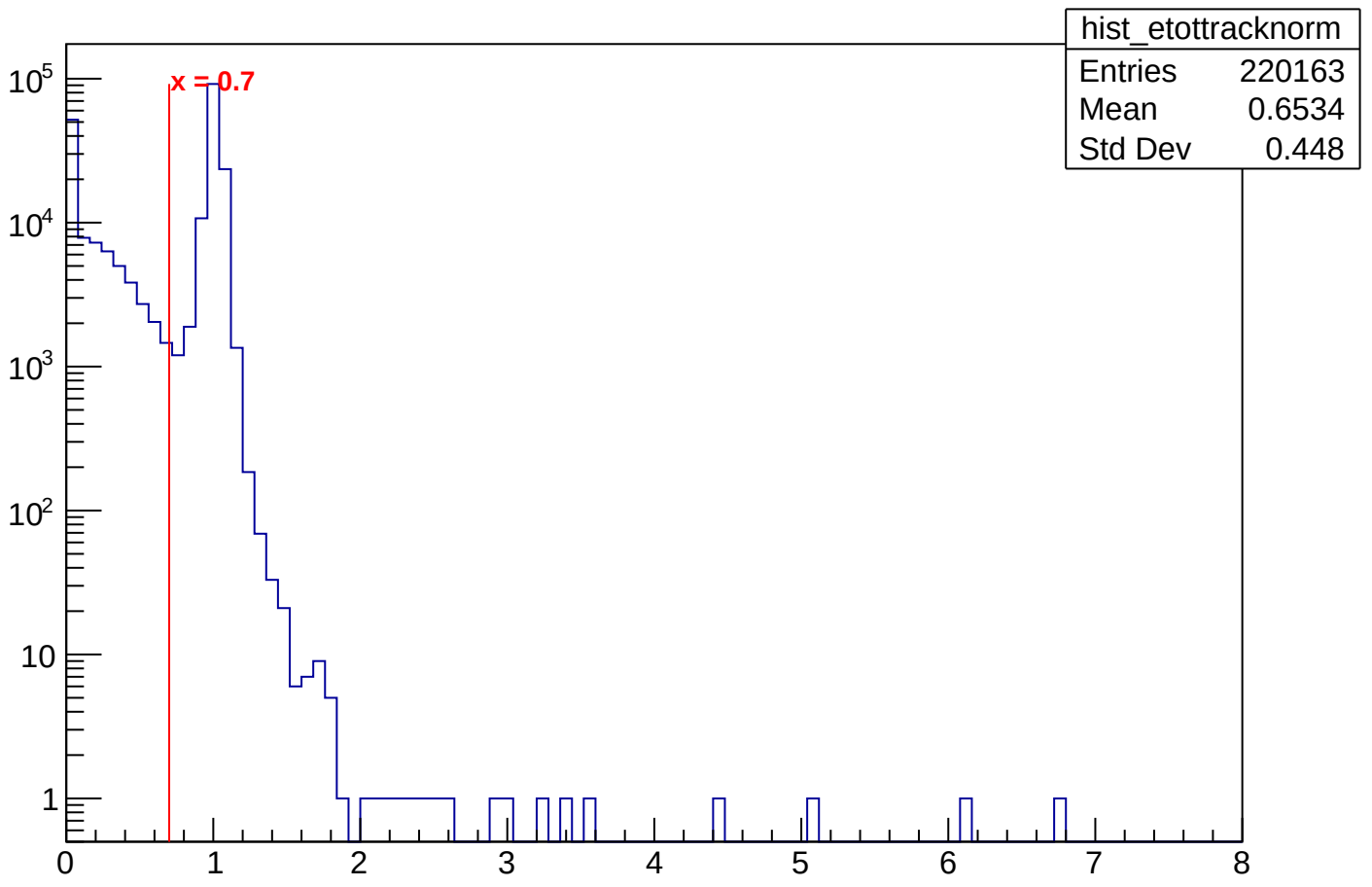
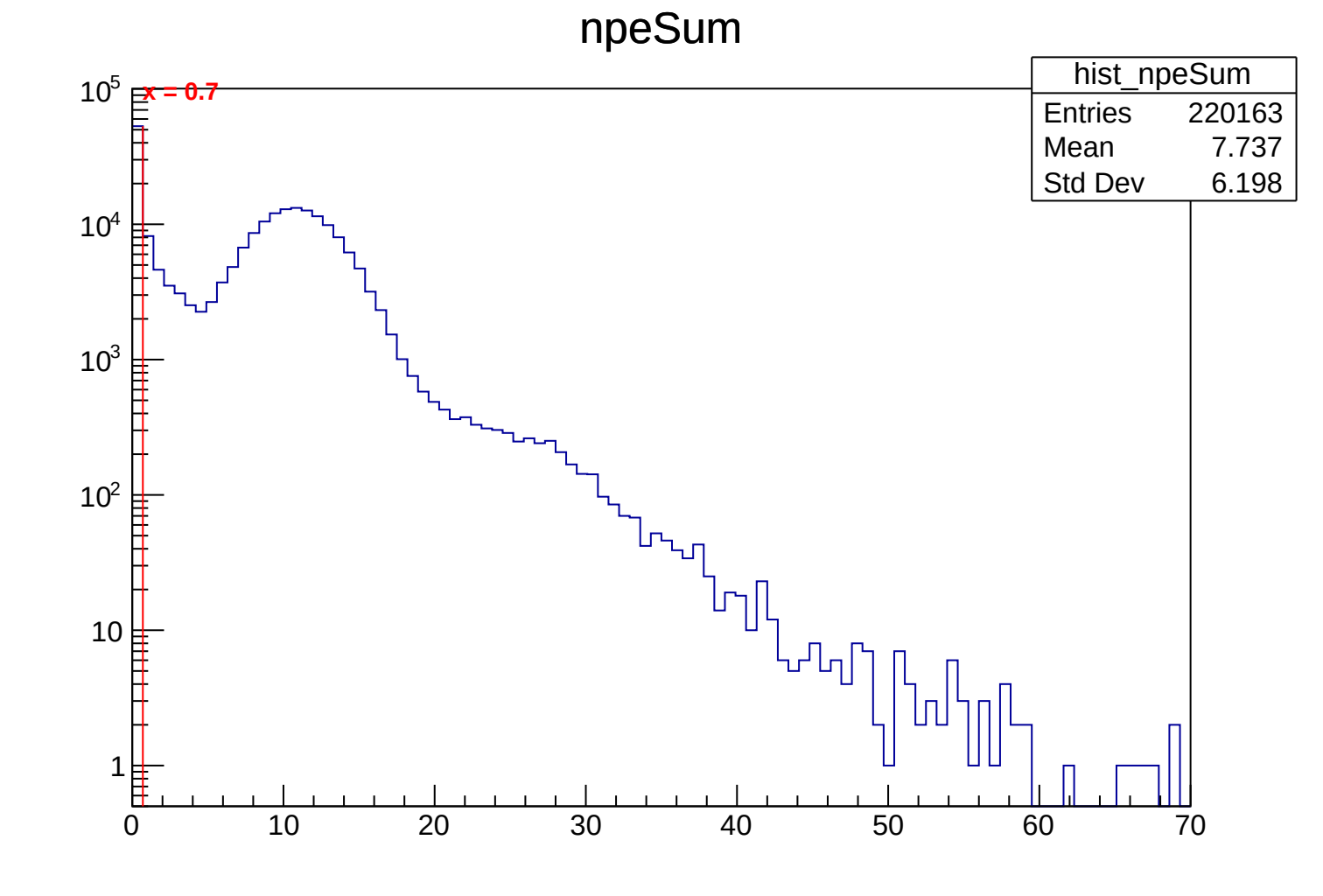
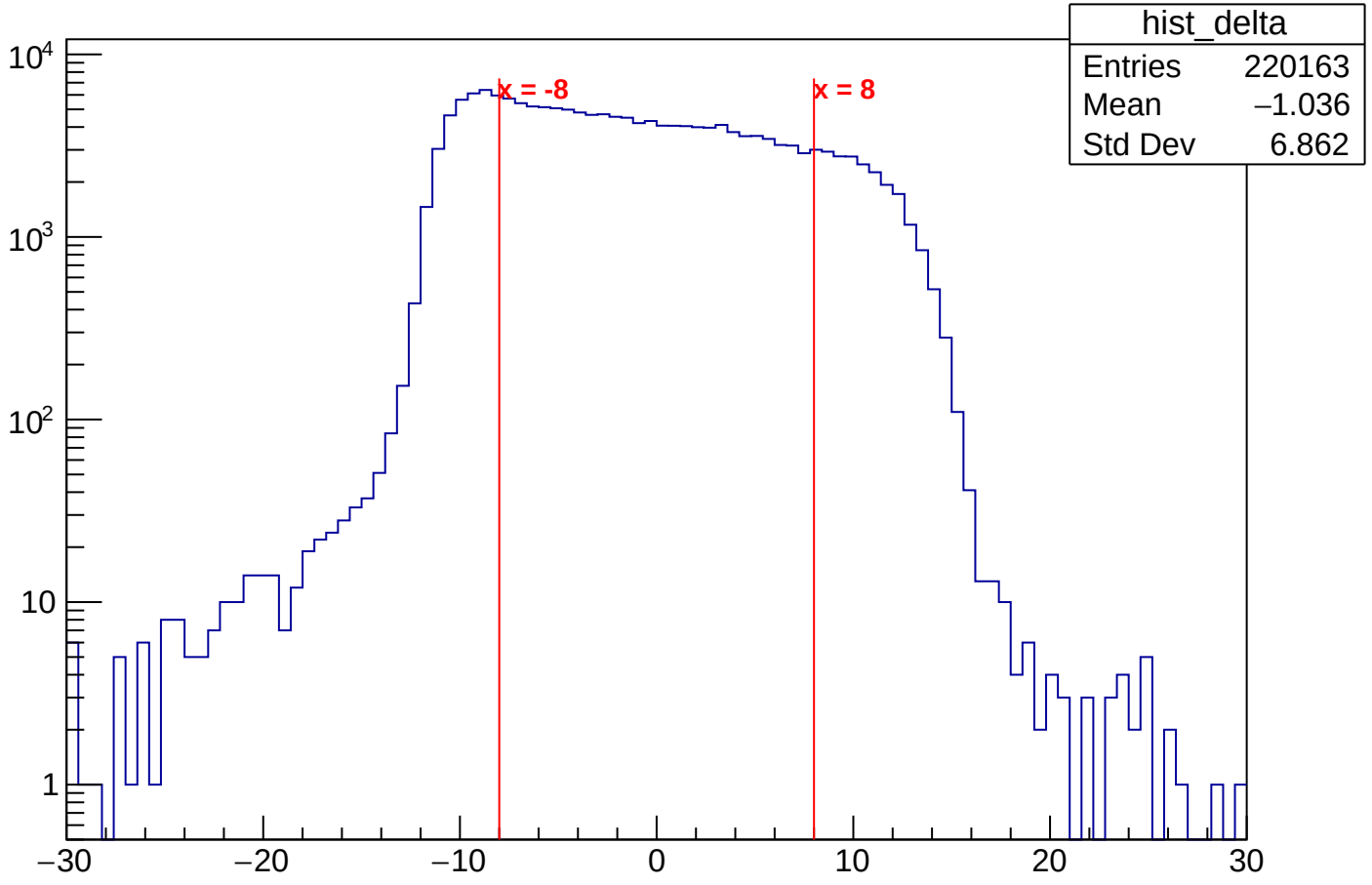
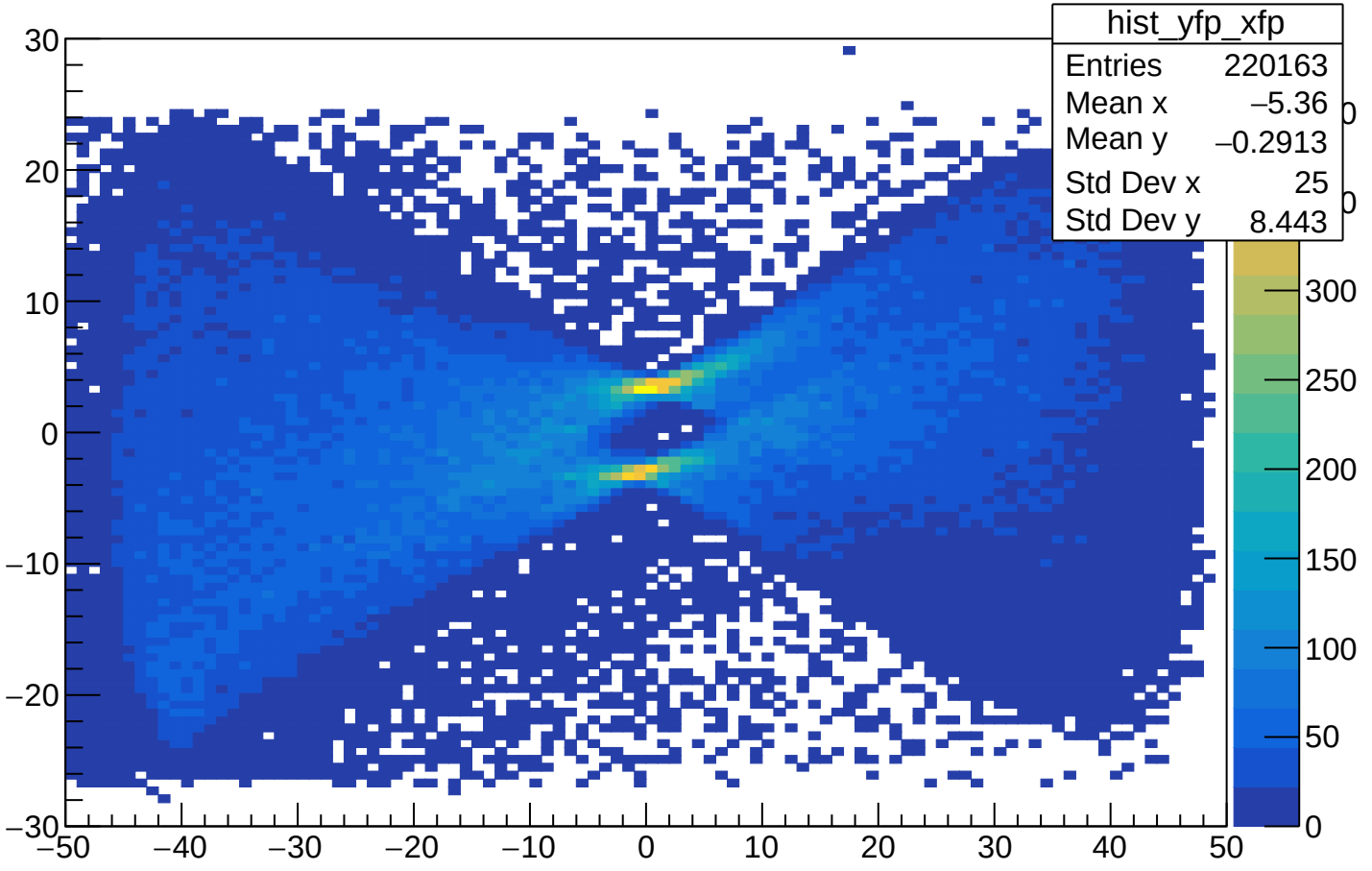
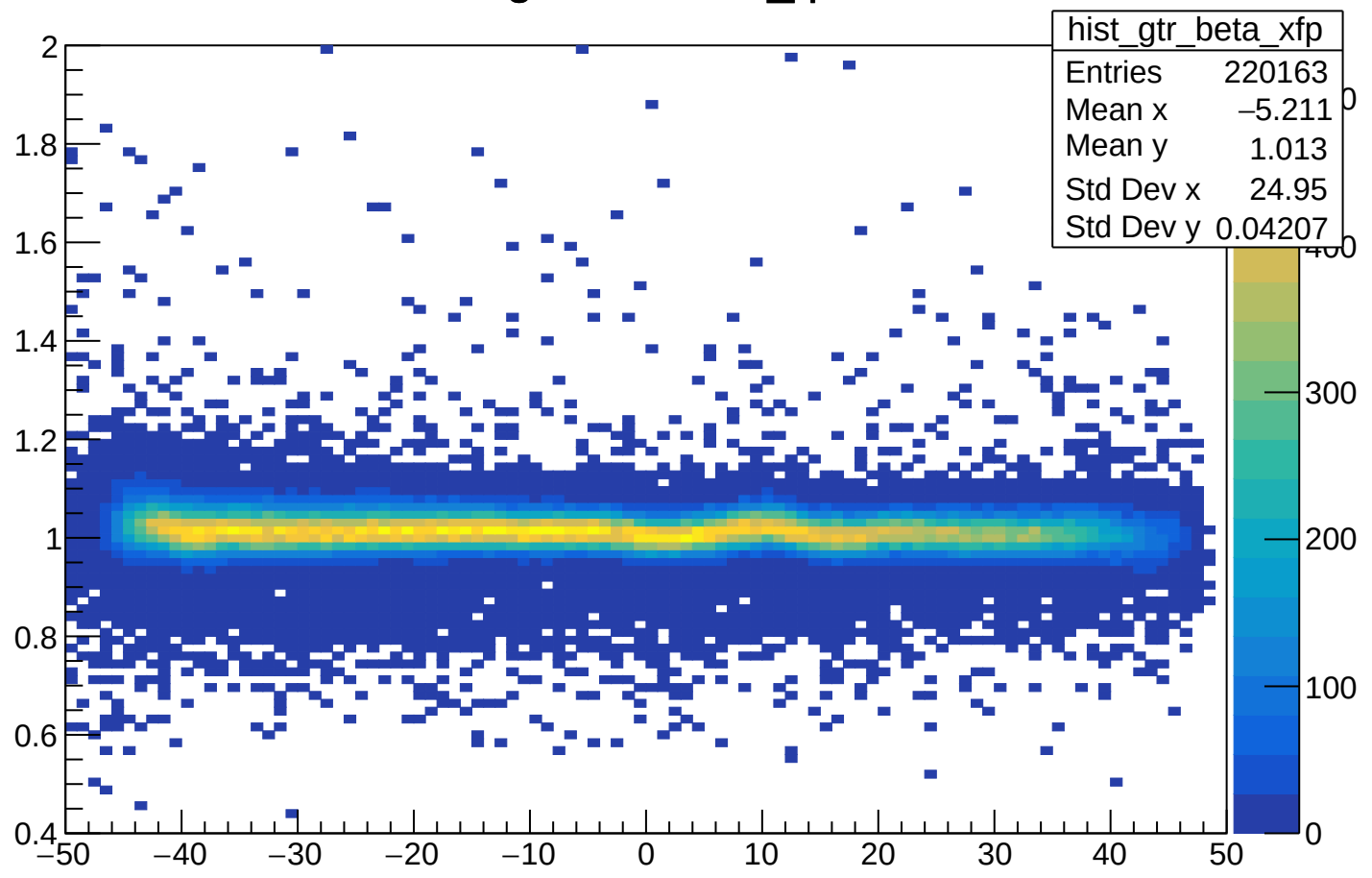

H.gtr.beta
Entries
Beta
Mean (no cuts) = 1.0142 ± 0.0001
Sigma (no cuts) = 0.0296 ± 0.0001
Mean (PID) = 1.0145 ± 0.0001
Sigma (PID) = 0.0286 ± 0.0001
Mean (PID & delta) = 1.0144 ± 0.0001
Sigma (PID & delta) = 0.0270 ± 0.0001
H.gtr.beta without cuts
Fit: H.gtr.beta without cuts
H.gtr.beta with PID cuts
Fit: H.gtr.beta with PID cuts
H.gtr.beta with PID and delta cuts
Fit: H.gtr.beta with PID and delta cuts

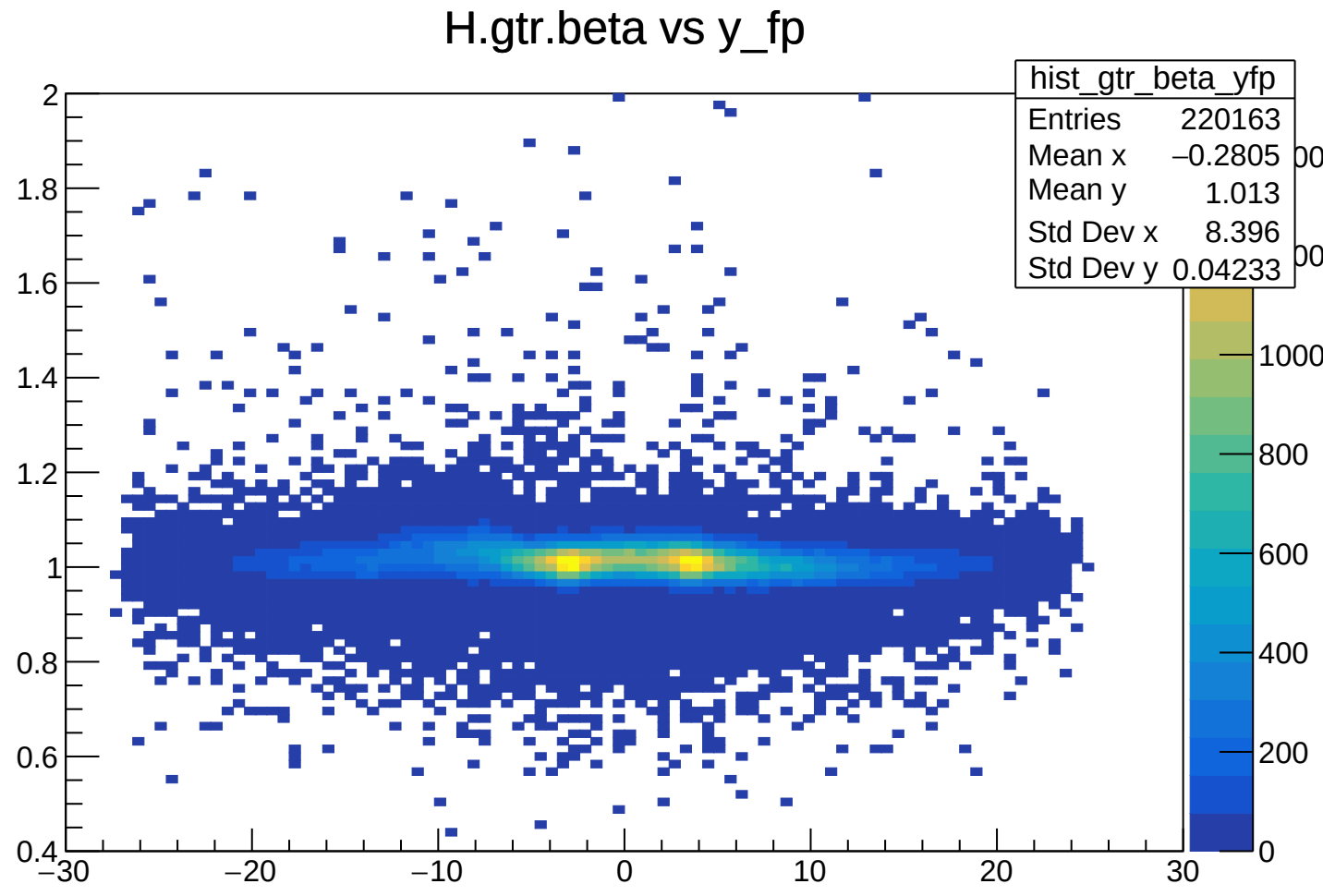

etottracknorm
hist_etottracknorm
Entries 220163
Mean 0.6534
Std Dev 0.448
x = 0.7
10^5
10^4
10^3
10^2
10
1
0
1
2
3
4
5
6
7
8

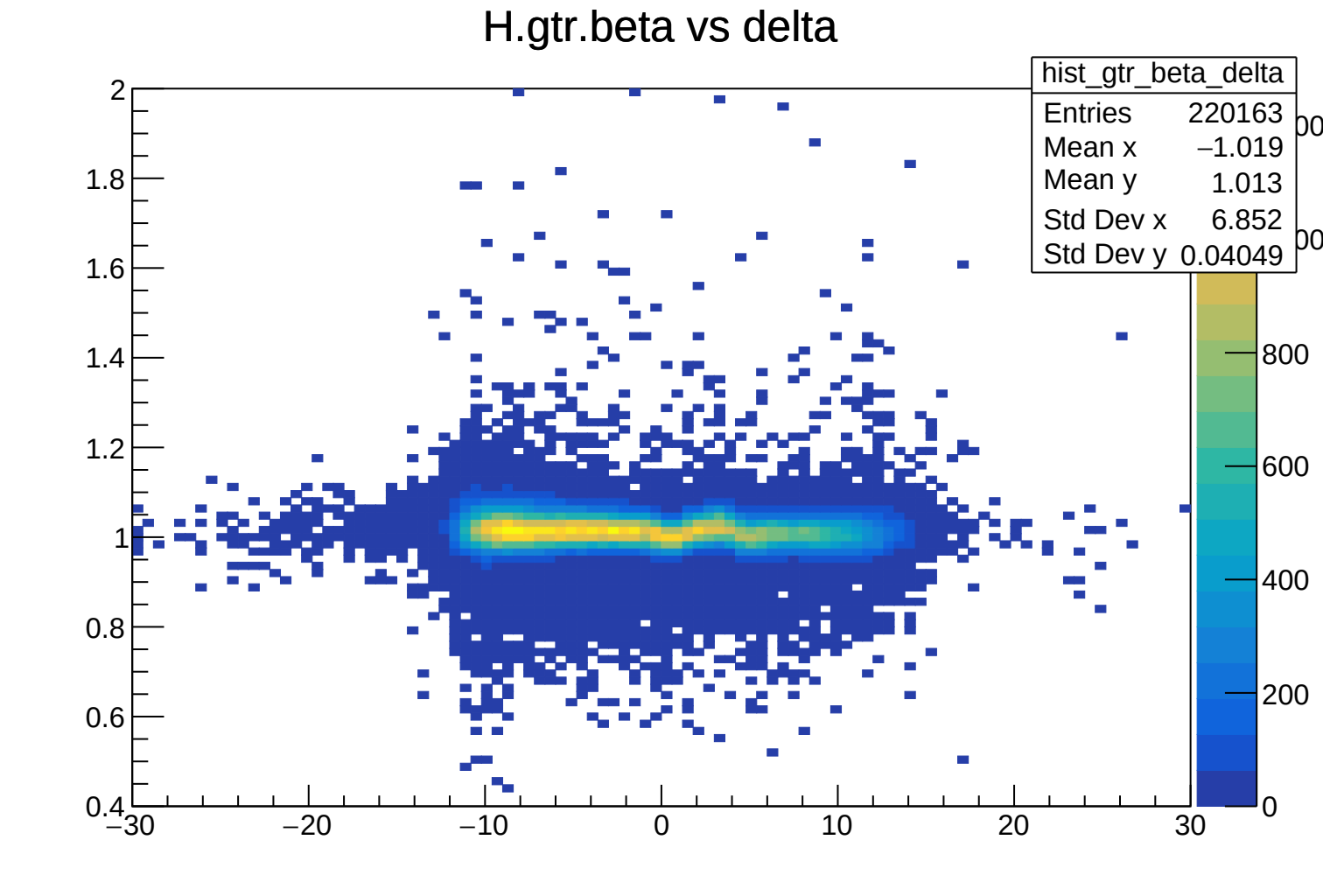

npeSum
hist_npeSum
Entries 220163
Mean 7.737
Std Dev 6.198
x = 0.7
10^5
10^4
10^3
10^2
10
1
0
10
20
30
40
50
60
70

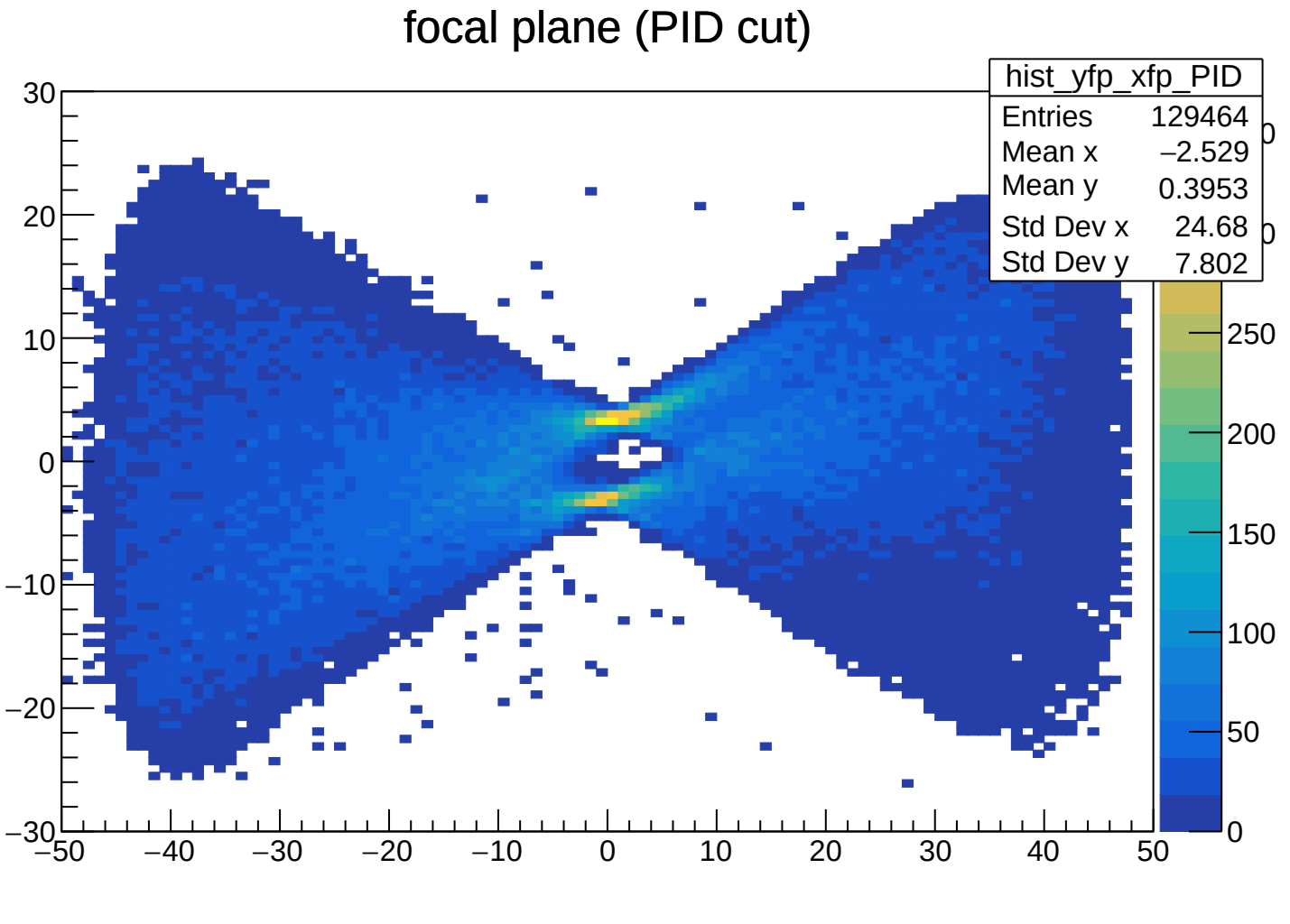

delta
hist_delta
Entries 220163
Mean −1.036
Std Dev 6.862
x = -8
x = 8
10^4
10^3
10^2
10
1
−30
−20
−10
0
10
20
30

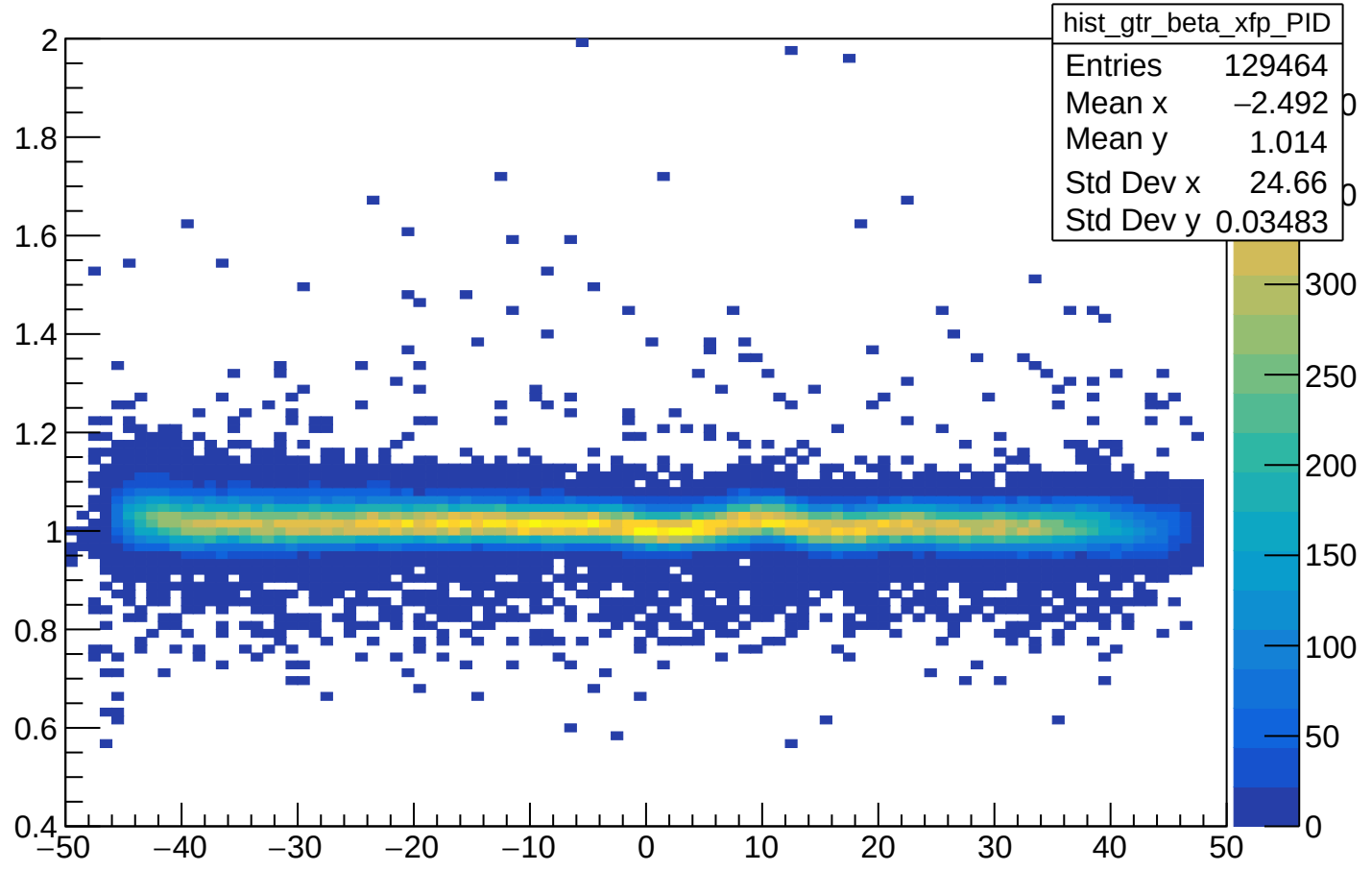

focal plane
hist_yfp_xfp
Entries 220163
Mean x −5.36
Mean y −0.2913
Std Dev x 25
Std Dev y 8.443
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
300
250
200
150
100
50
0

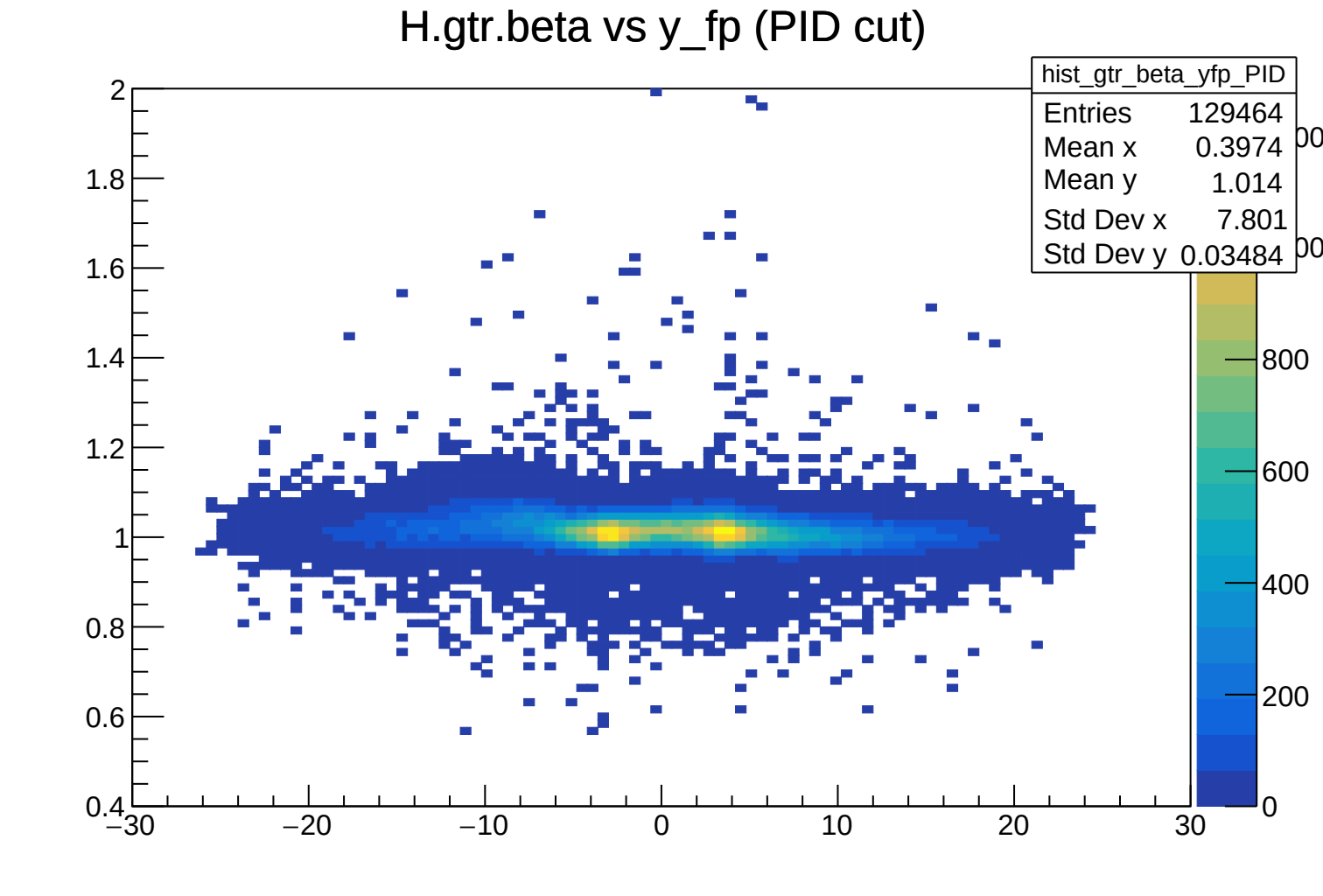

H.gtr.beta vs x_fp
hist_gtr_beta_xfp
Entries 220163
Mean x −5.211
Mean y 1.013
Std Dev x 24.95
Std Dev y 0.04207
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−50
−40
−30
−20
−10
0
10
20
30
40
50
400
300
200
100
0

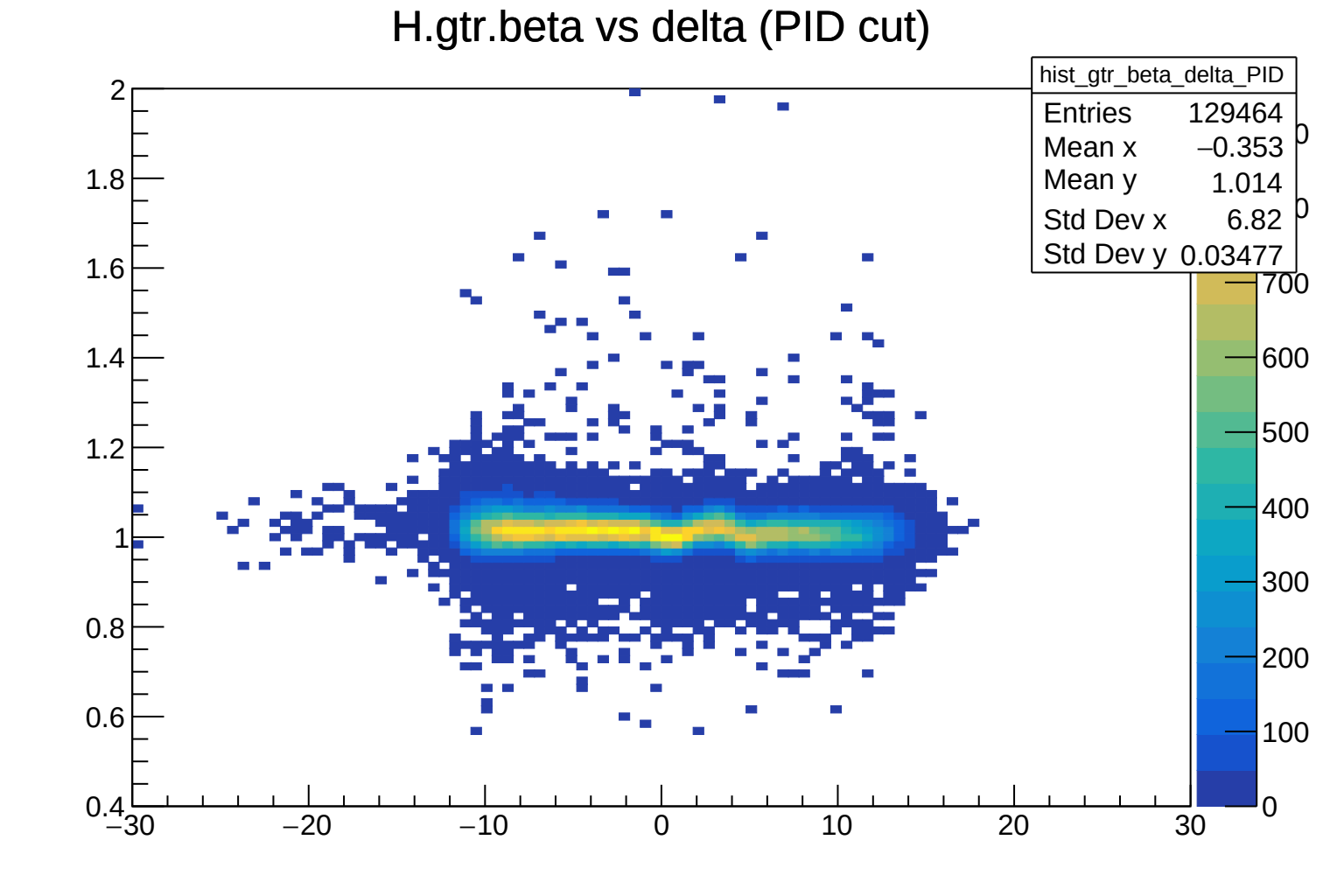

H.gtr.beta vs y_fp
hist_gtr_beta_yfp
Entries 220163
Mean x −0.2805
Mean y 1.013
Std Dev x 8.396
Std Dev y 0.04233
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
1000
800
600
400
200
0

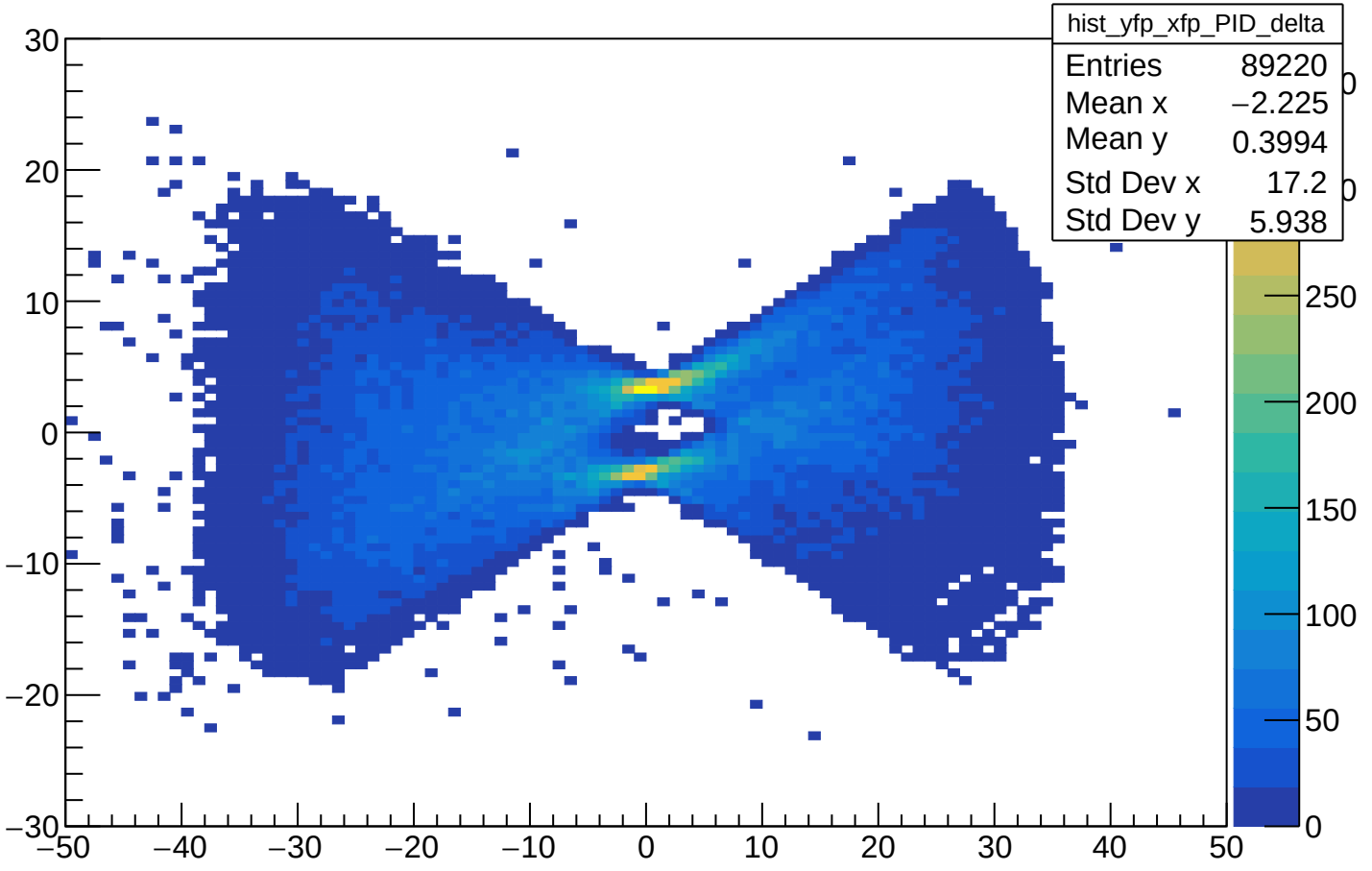

H.gtr.beta vs delta
hist_gtr_beta_delta
Entries 220163
Mean x −1.019
Mean y 1.013
Std Dev x 6.852
Std Dev y 0.04049
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
800
600
400
200
0

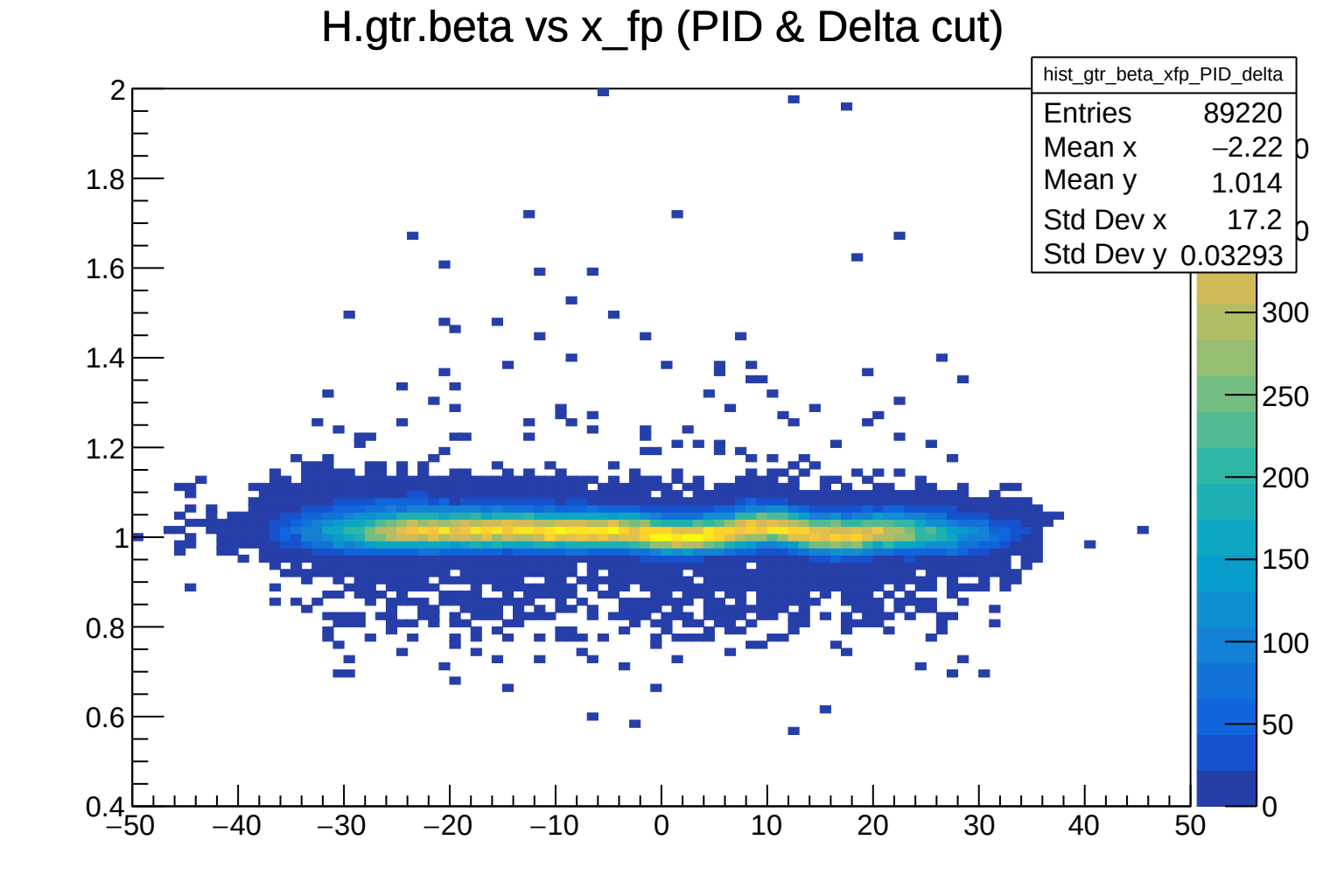

focal plane (PID cut)
hist_yfp_xfp_PID
Entries 129464
Mean x −2.529
Mean y 0.3953
Std Dev x 24.68
Std Dev y 7.802
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
250
200
150
100
50
0

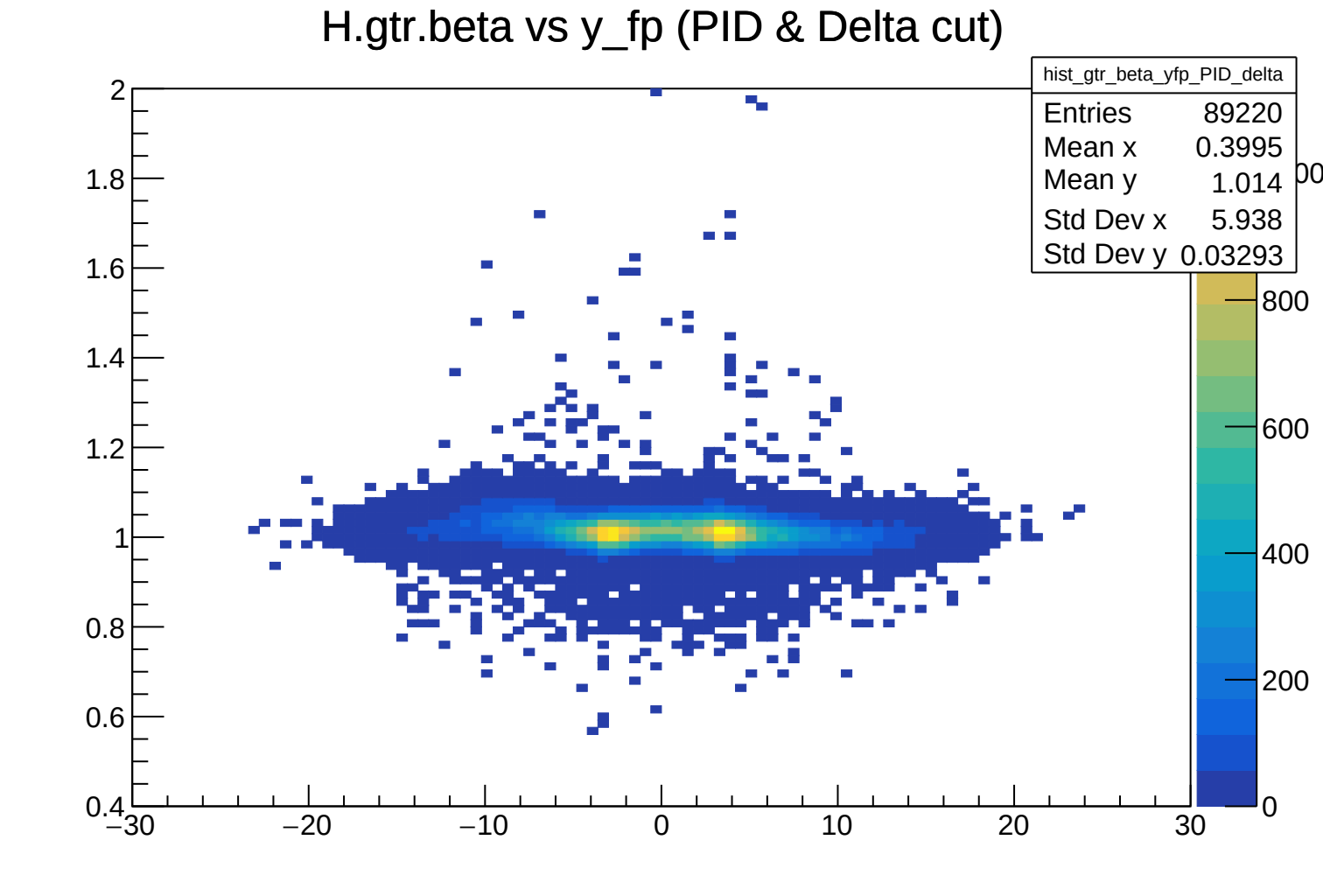

H.gtr.beta vs x_fp (PID cut)
hist_gtr_beta_xfp_PID
Entries 129464
Mean x −2.492
Mean y 1.014
Std Dev x 24.66
Std Dev y 0.03483
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−50
−40
−30
−20
−10
0
10
20
30
40
50
300
250
200
150
100
50
0

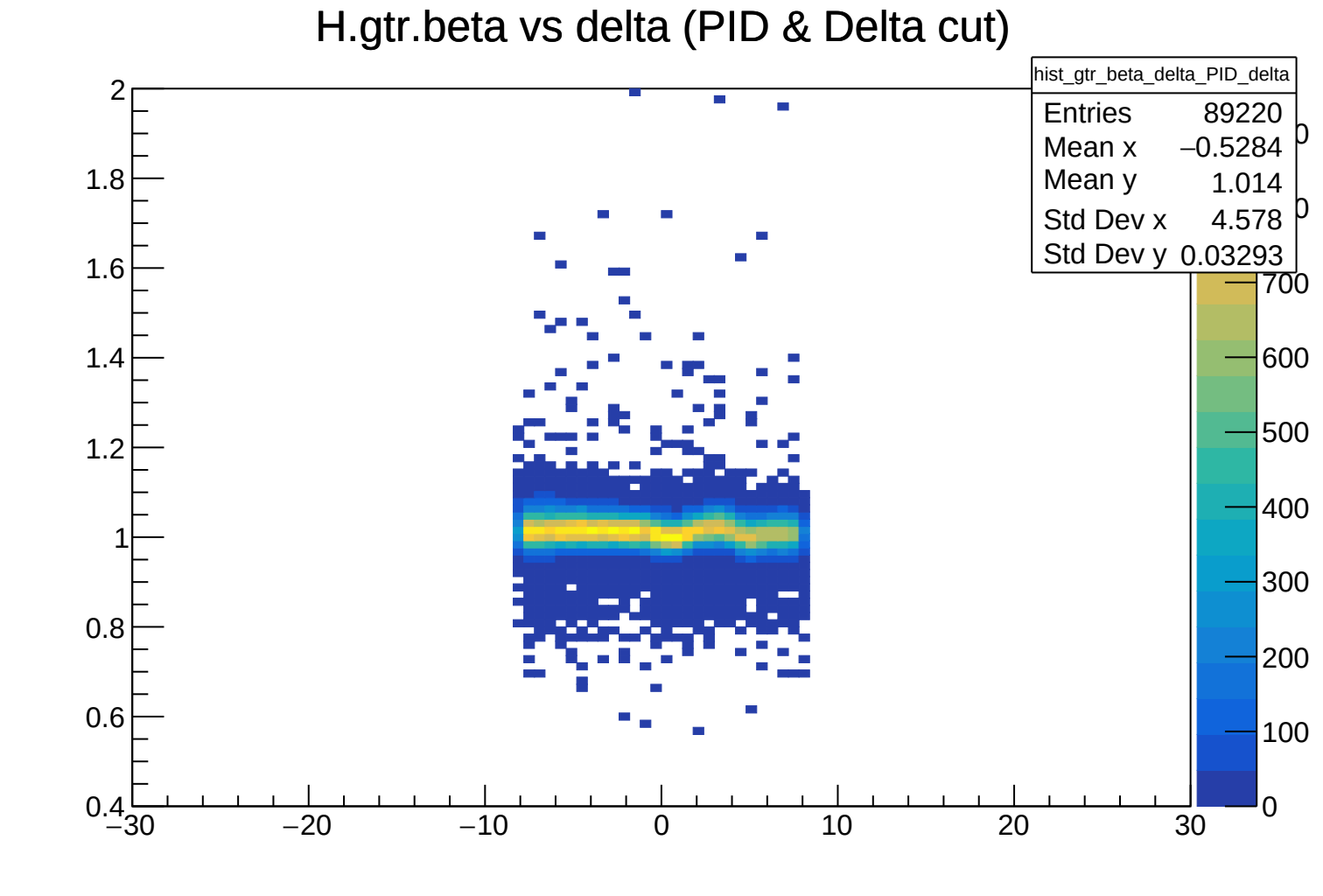

H.gtr.beta vs y_fp (PID cut)
hist_gtr_beta_yfp_PID
Entries 129464
Mean x 0.3974
Mean y 1.014
Std Dev x 7.801
Std Dev y 0.03484
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
800
600
400
200
0


H.gtr.beta vs delta (PID cut)
hist_gtr_beta_delta_PID
Entries 129464
Mean x −0.353
Mean y 1.014
Std Dev x 6.82
Std Dev y 0.03477
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
700
600
500
400
300
200
100
0


focal plane (PID & Delta cut)
hist_yfp_xfp_PID_delta
Entries 89220
Mean x −2.225
Mean y 0.3994
Std Dev x 17.2
Std Dev y 5.938
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 89220
Mean x −2.22
Mean y 1.014
Std Dev x 17.2
Std Dev y 0.03293
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
300
250
200
150
100
50
0


H.gtr.beta vs y_fp (PID & Delta cut)
hist_gtr_beta_yfp_PID_delta
Entries 89220
Mean x 0.3995
Mean y 1.014
Std Dev x 5.938
Std Dev y 0.03293
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
800
600
400
200
0


H.gtr.beta vs delta (PID & Delta cut)
hist_gtr_beta_delta_PID_delta
Entries 89220
Mean x −0.5284
Mean y 1.014
Std Dev x 4.578
Std Dev y 0.03293
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
700
600
500
400
300
200
100
0