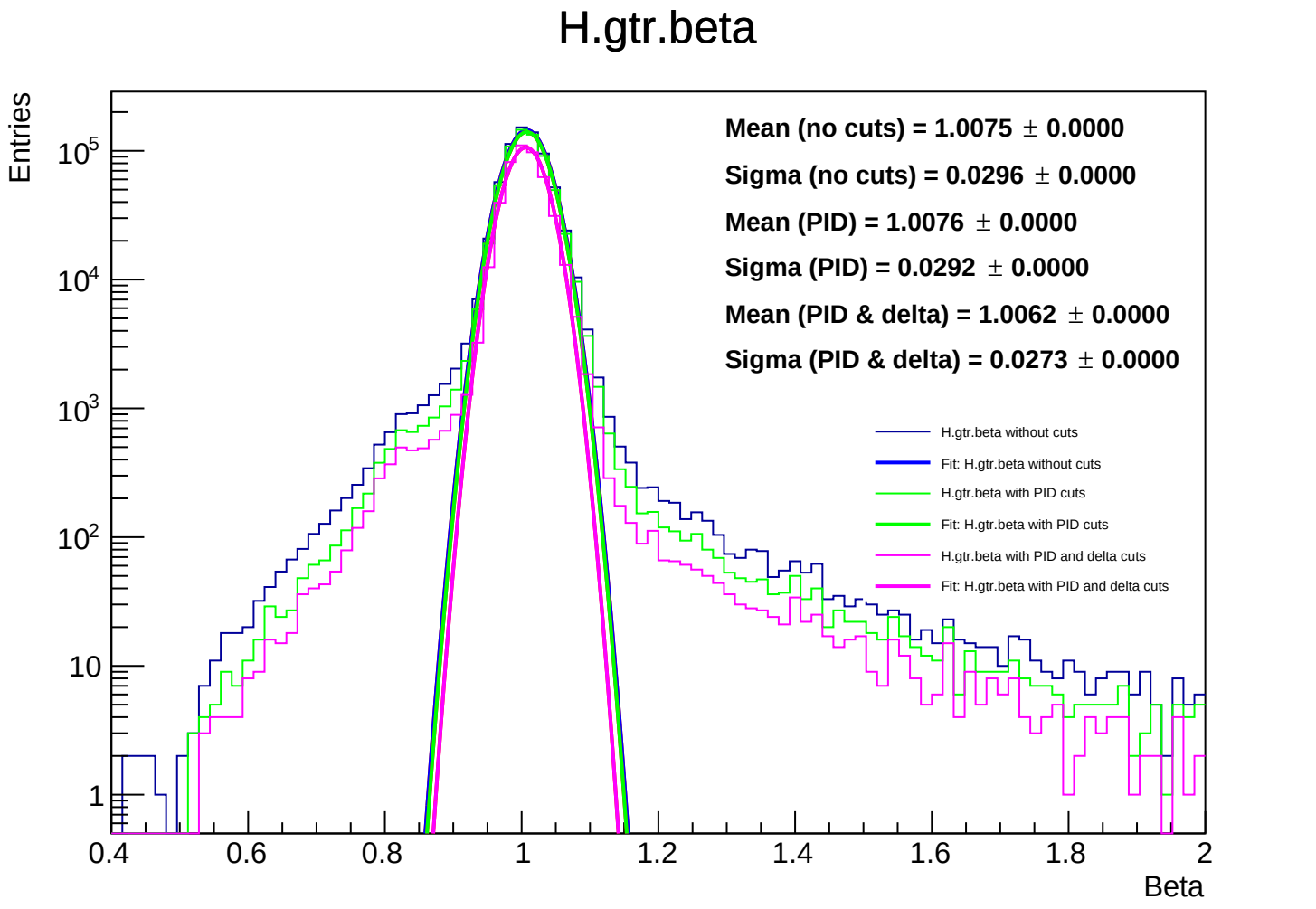
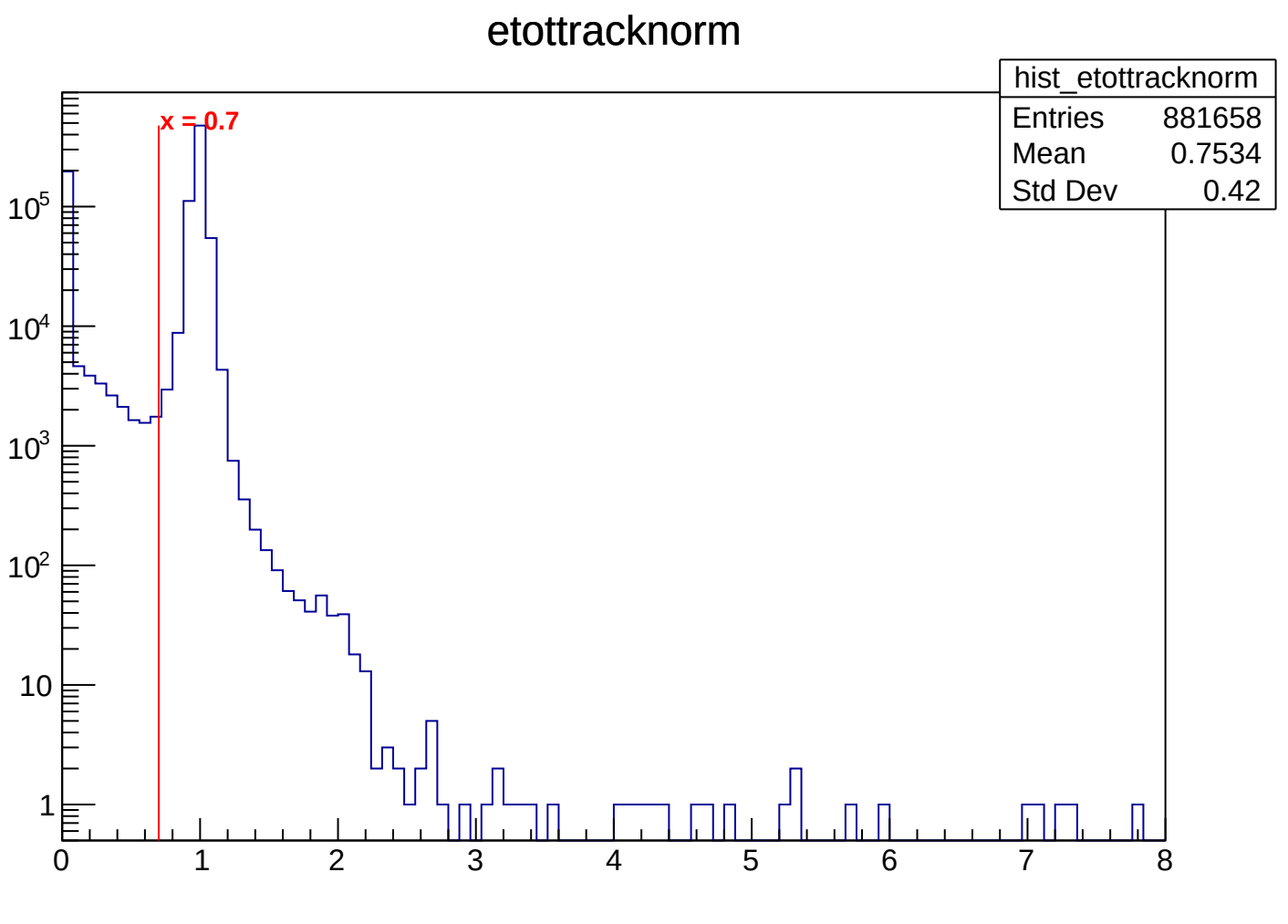
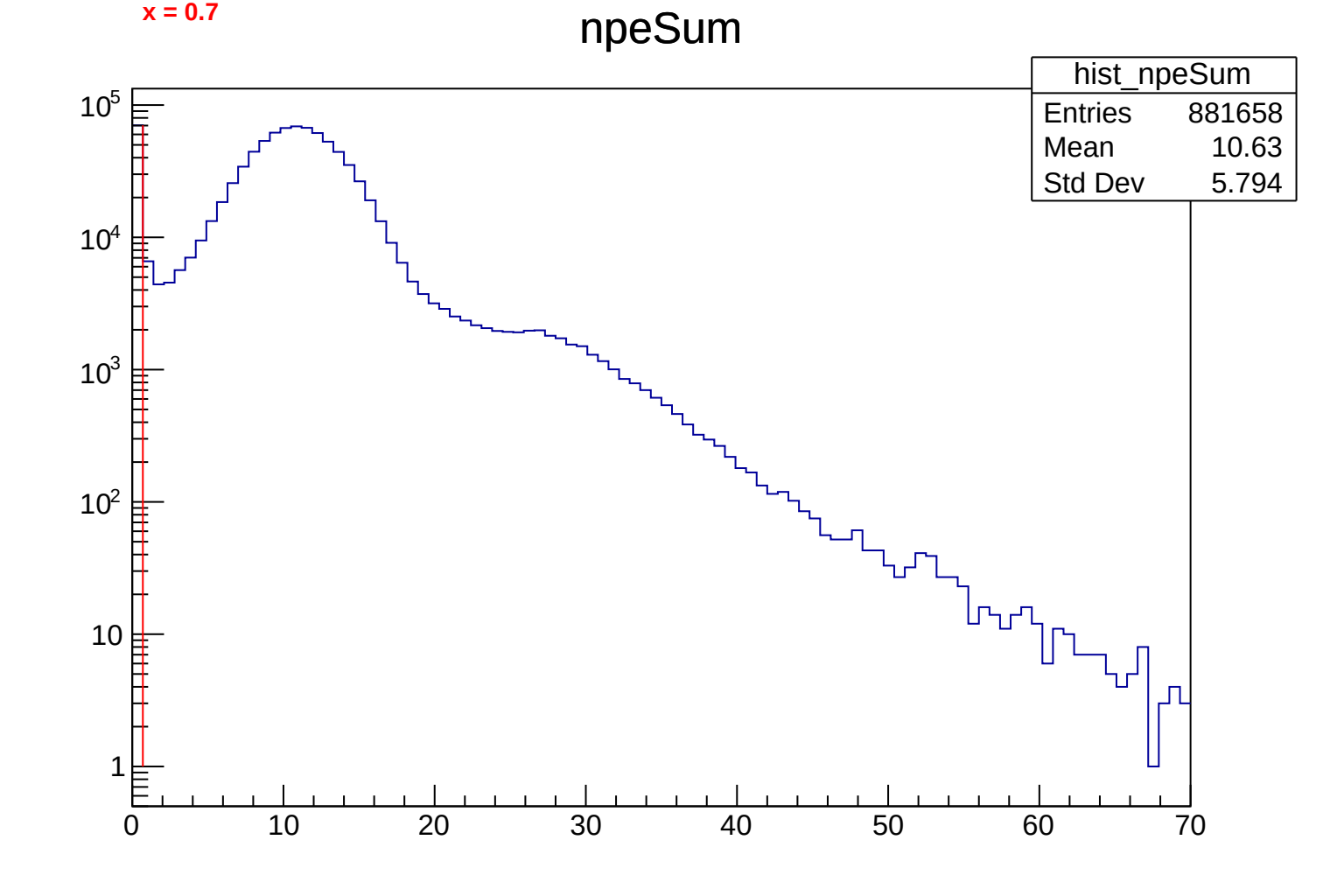
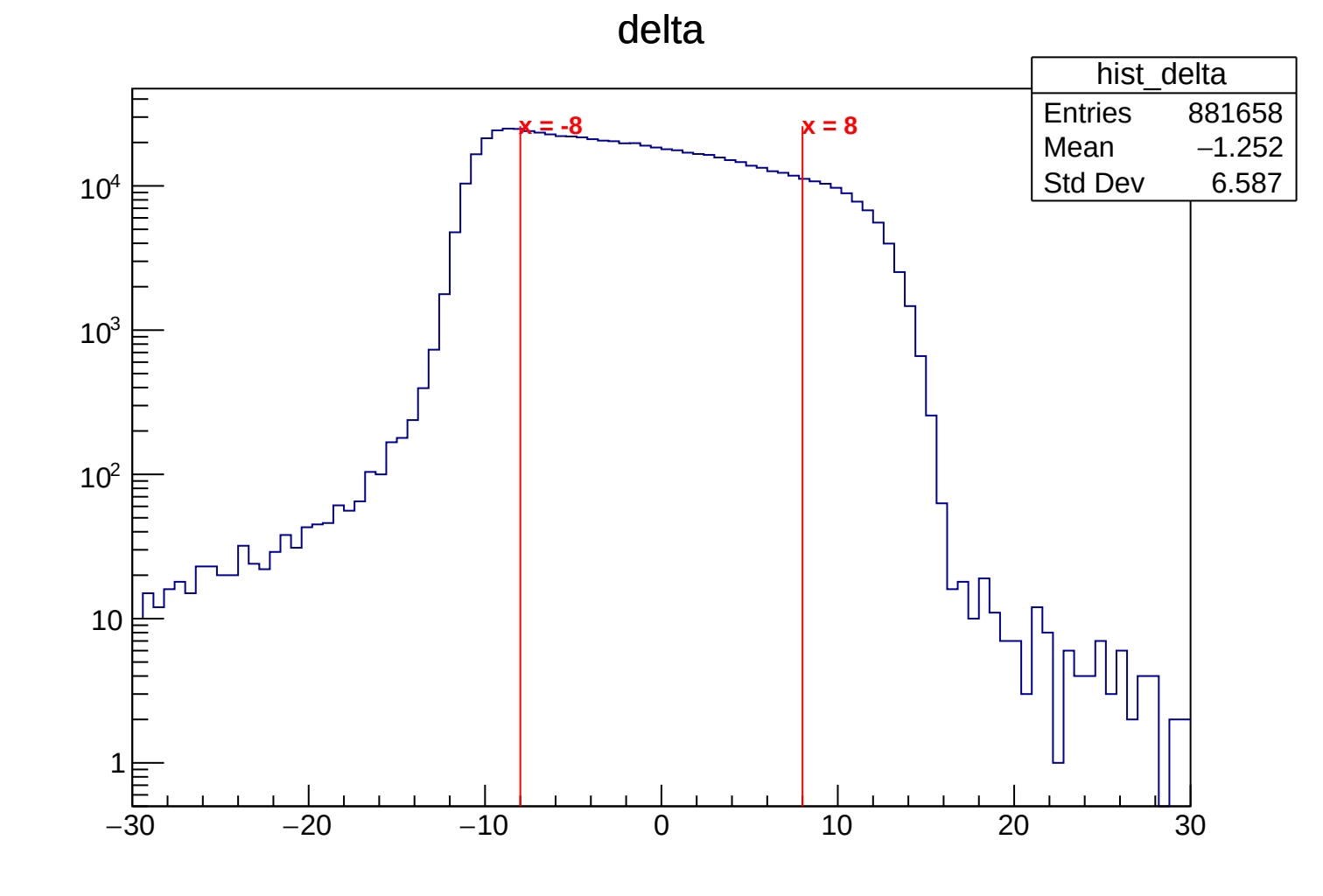
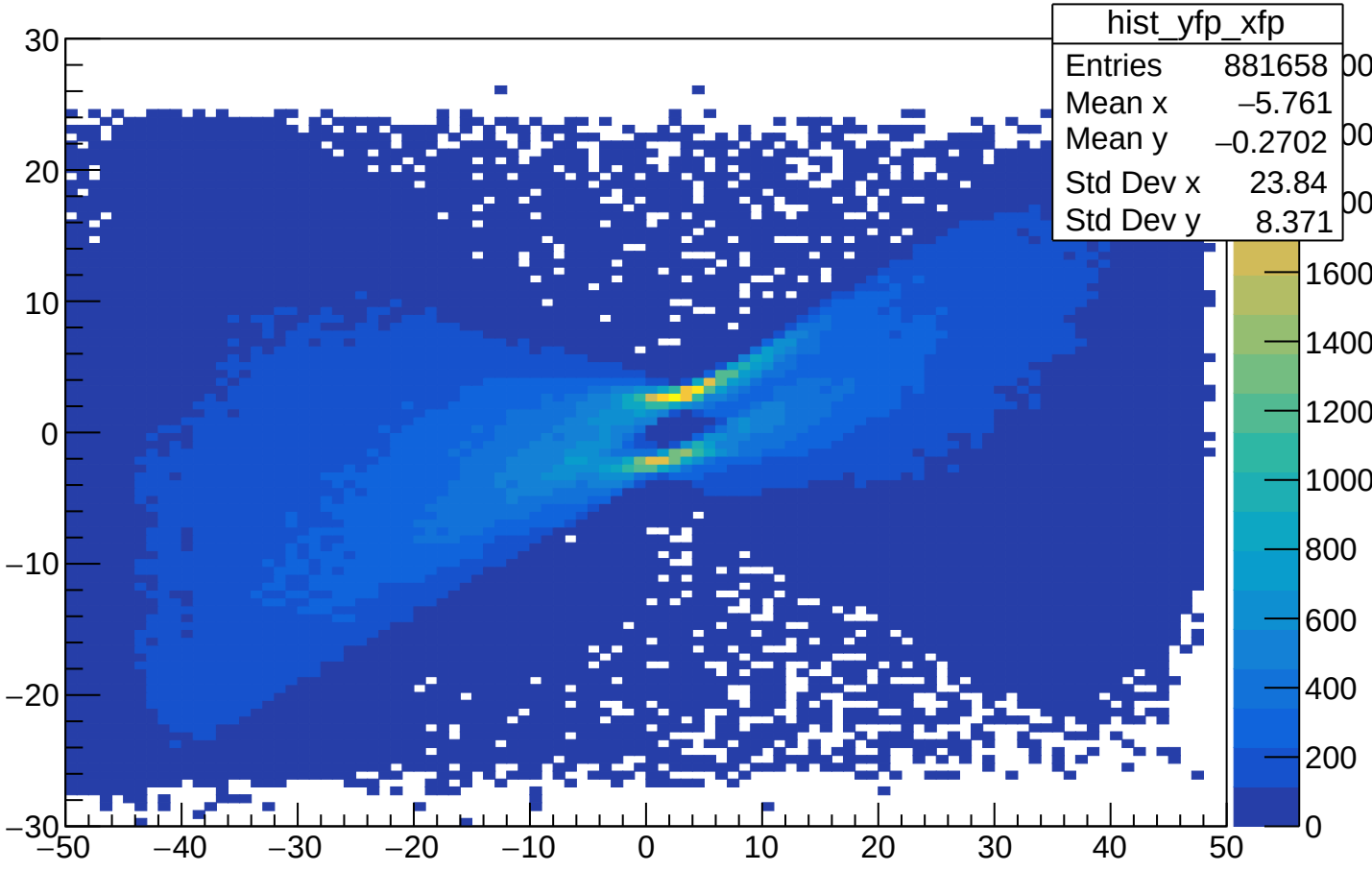
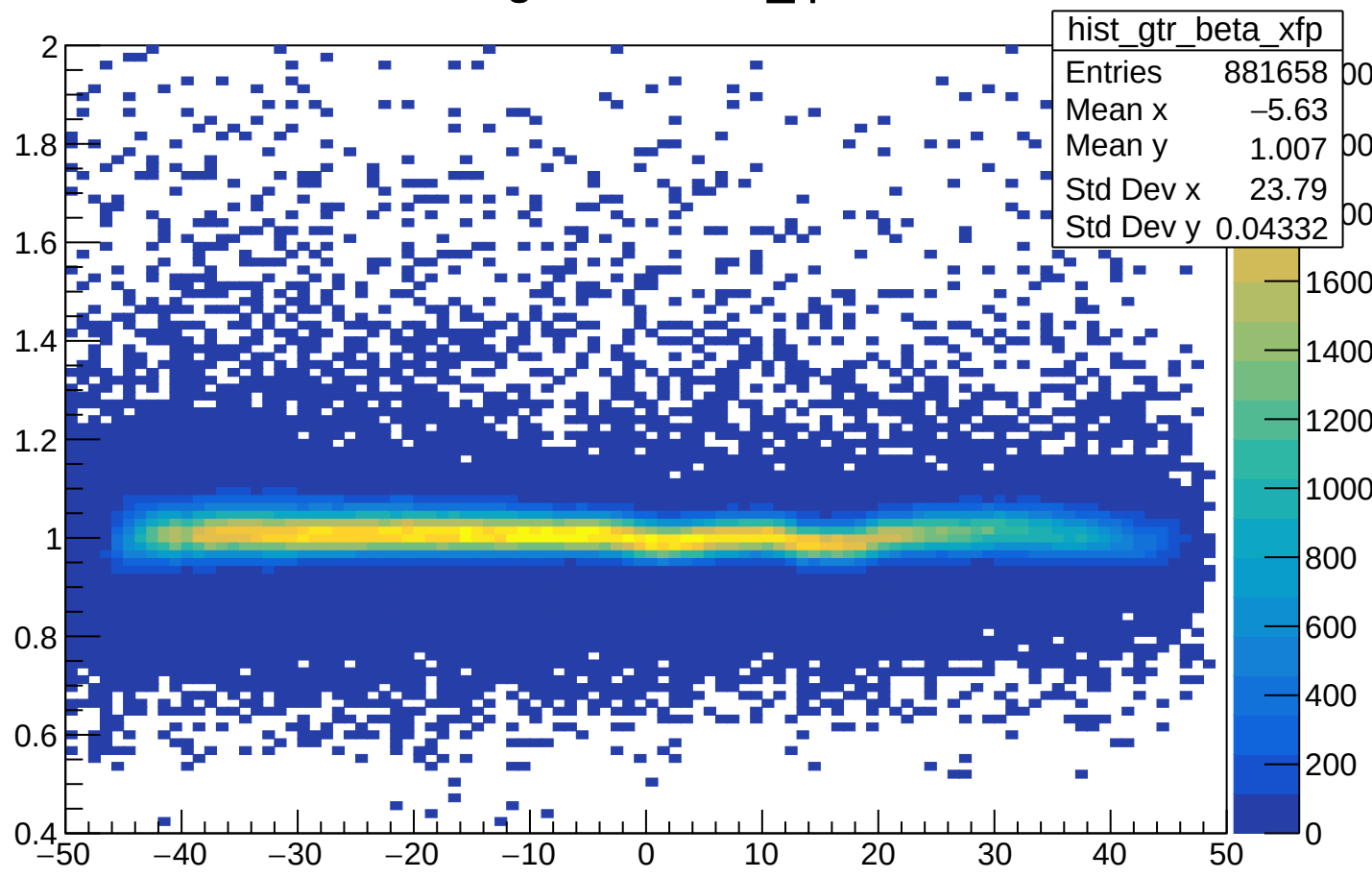

H.gtr.beta
Entries
Beta
Mean (no cuts) = 1.0075 ± 0.0000
Sigma (no cuts) = 0.0296 ± 0.0000
Mean (PID) = 1.0076 ± 0.0000
Sigma (PID) = 0.0292 ± 0.0000
Mean (PID & delta) = 1.0062 ± 0.0000
Sigma (PID & delta) = 0.0273 ± 0.0000
H.gtr.beta without cuts
Fit: H.gtr.beta without cuts
H.gtr.beta with PID cuts
Fit: H.gtr.beta with PID cuts
H.gtr.beta with PID and delta cuts
Fit: H.gtr.beta with PID and delta cuts

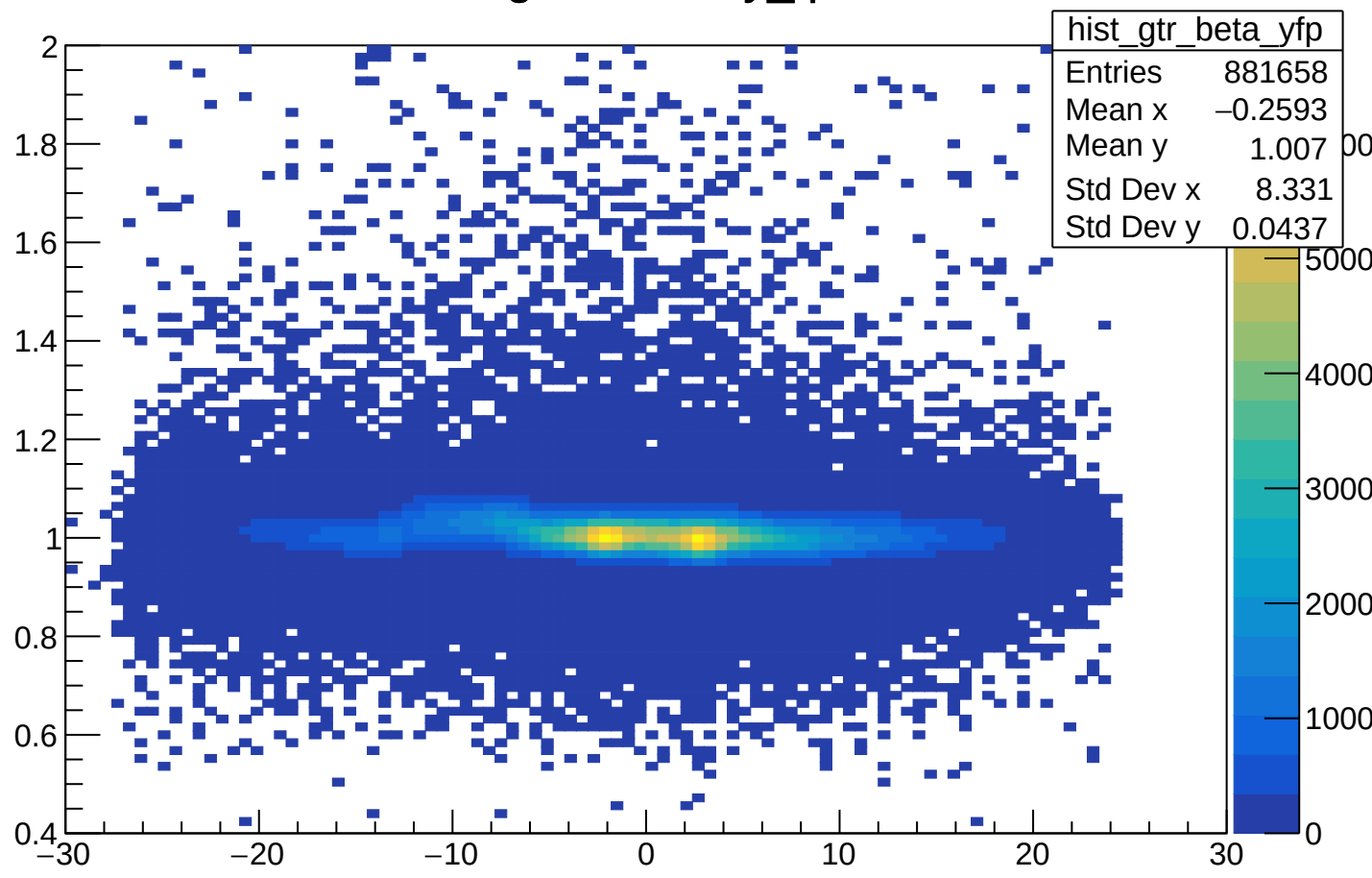

etottracknorm
hist_etottracknorm
Entries 881658
Mean 0.7534
Std Dev 0.42
x = 0.7
10^5
10^4
10^3
10^2
10
1
0
1
2
3
4
5
6
7
8

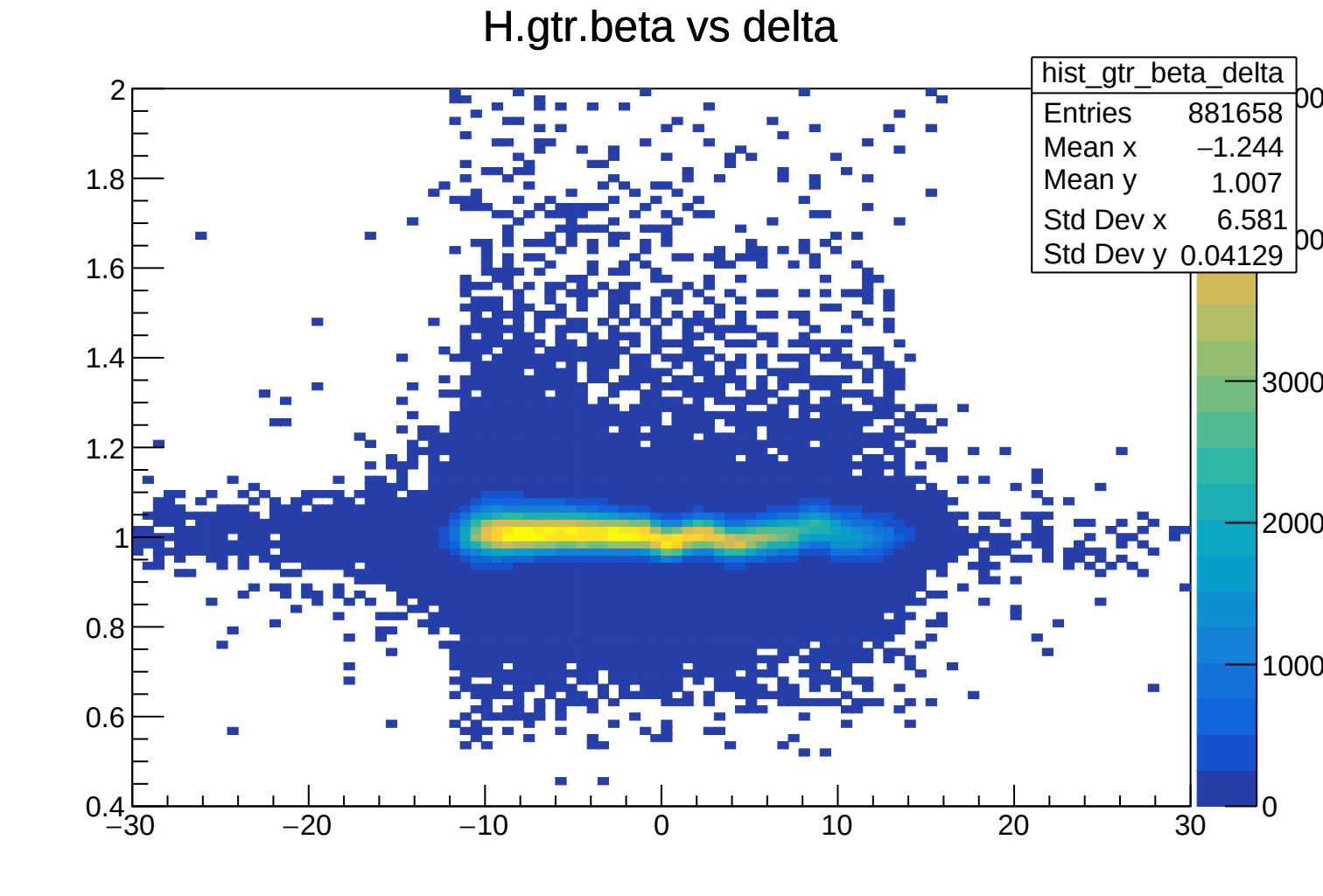

x = 0.7
npeSum
hist_npeSum
Entries 881658
Mean 10.63
Std Dev 5.794
10^5
10^4
10^3
10^2
10
1
0
10
20
30
40
50
60
70

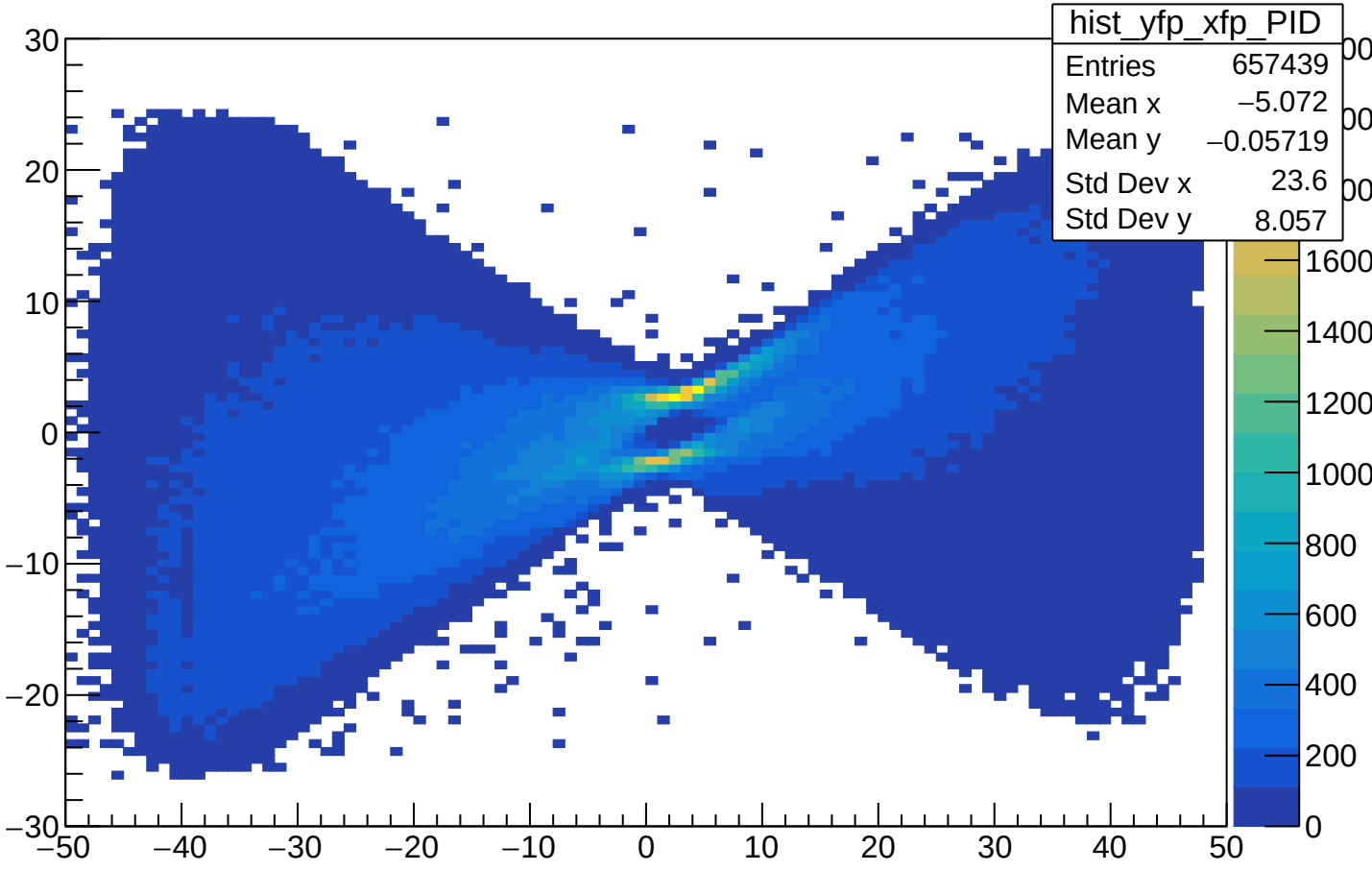

delta
hist_delta
Entries 881658
Mean −1.252
Std Dev 6.587
x = -8
x = 8
10^4
10^3
10^2
10
1
−30
−20
−10
0
10
20
30

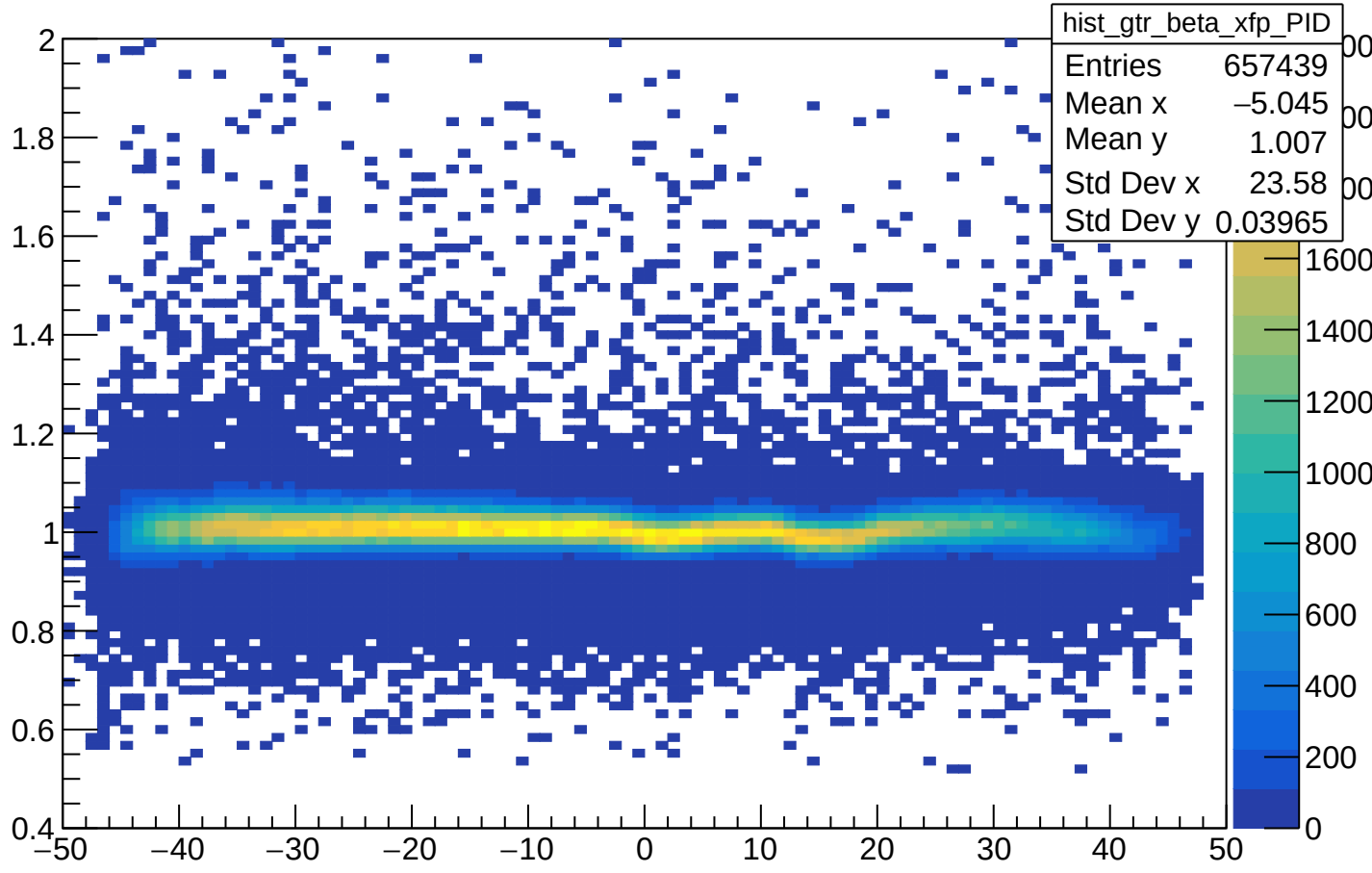

focal plane
hist_yfp_xfp
Entries 881658
Mean x −5.761
Mean y −0.2702
Std Dev x 23.84
Std Dev y 8.371
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
1600
1400
1200
1000
800
600
400
200
0

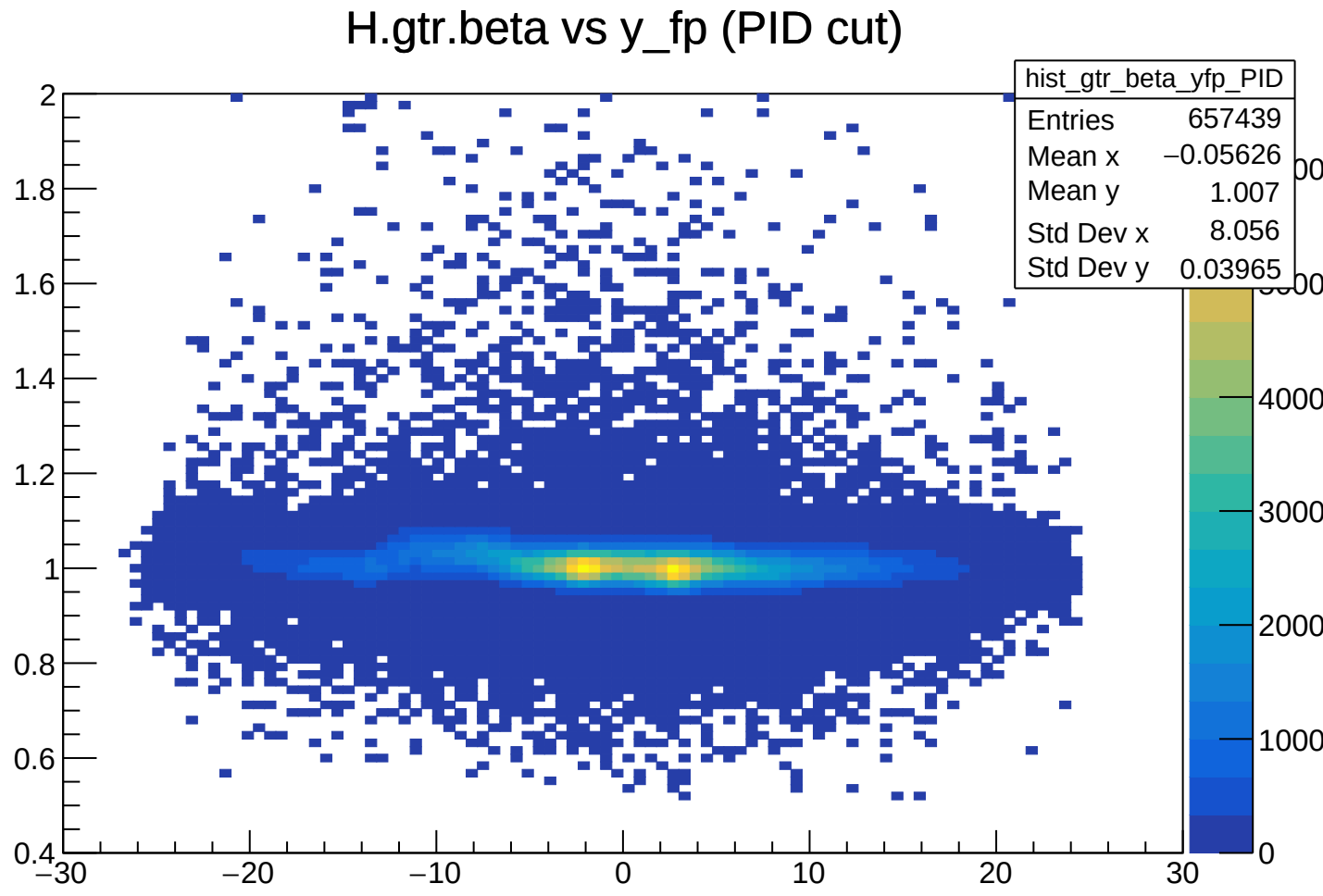

H.gtr.beta vs x_fp
hist_gtr_beta_xfp
Entries 881658
Mean x −5.63
Mean y 1.007
Std Dev x 23.79
Std Dev y 0.04332
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−50
−40
−30
−20
−10
0
10
20
30
40
50
1600
1400
1200
1000
800
600
400
200
0

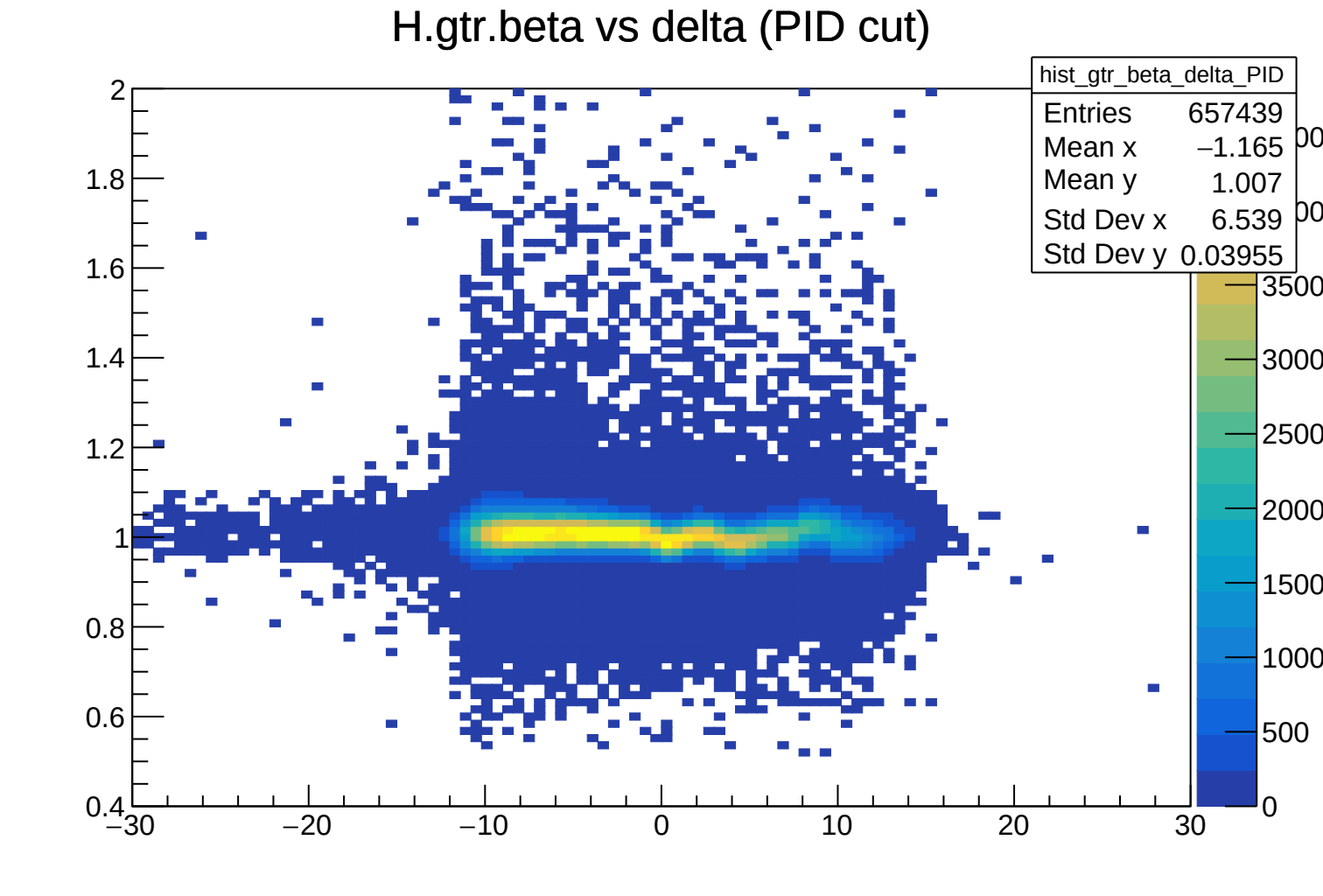

H.gtr.beta vs y_fp
hist_gtr_beta_yfp
Entries 881658
Mean x −0.2593
Mean y 1.007
Std Dev x 8.331
Std Dev y 0.0437
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
5000
4000
3000
2000
1000
0

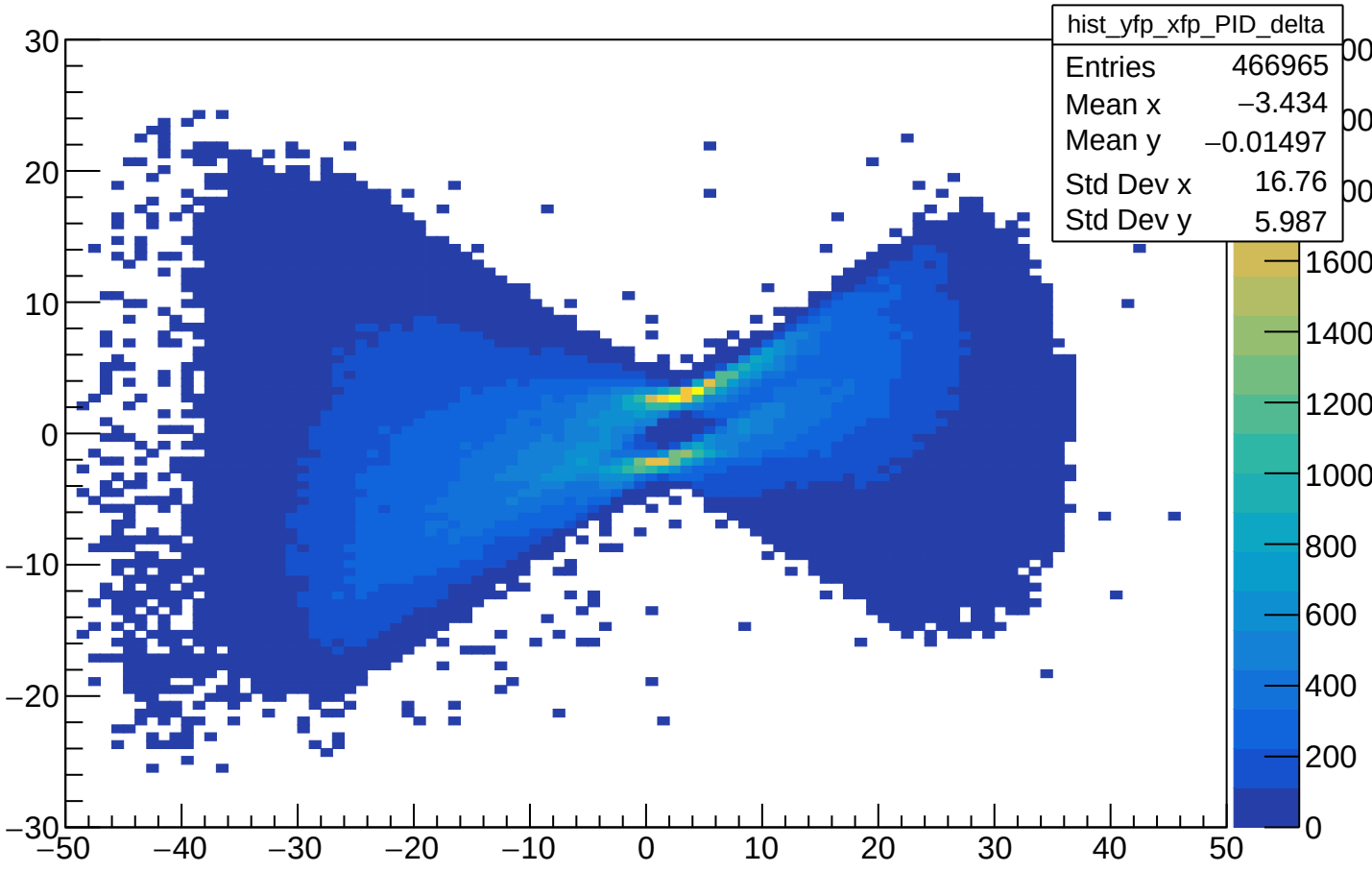

H.gtr.beta vs delta
hist_gtr_beta_delta
Entries 881658
Mean x −1.244
Mean y 1.007
Std Dev x 6.581
Std Dev y 0.04129
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
3000
2000
1000
0

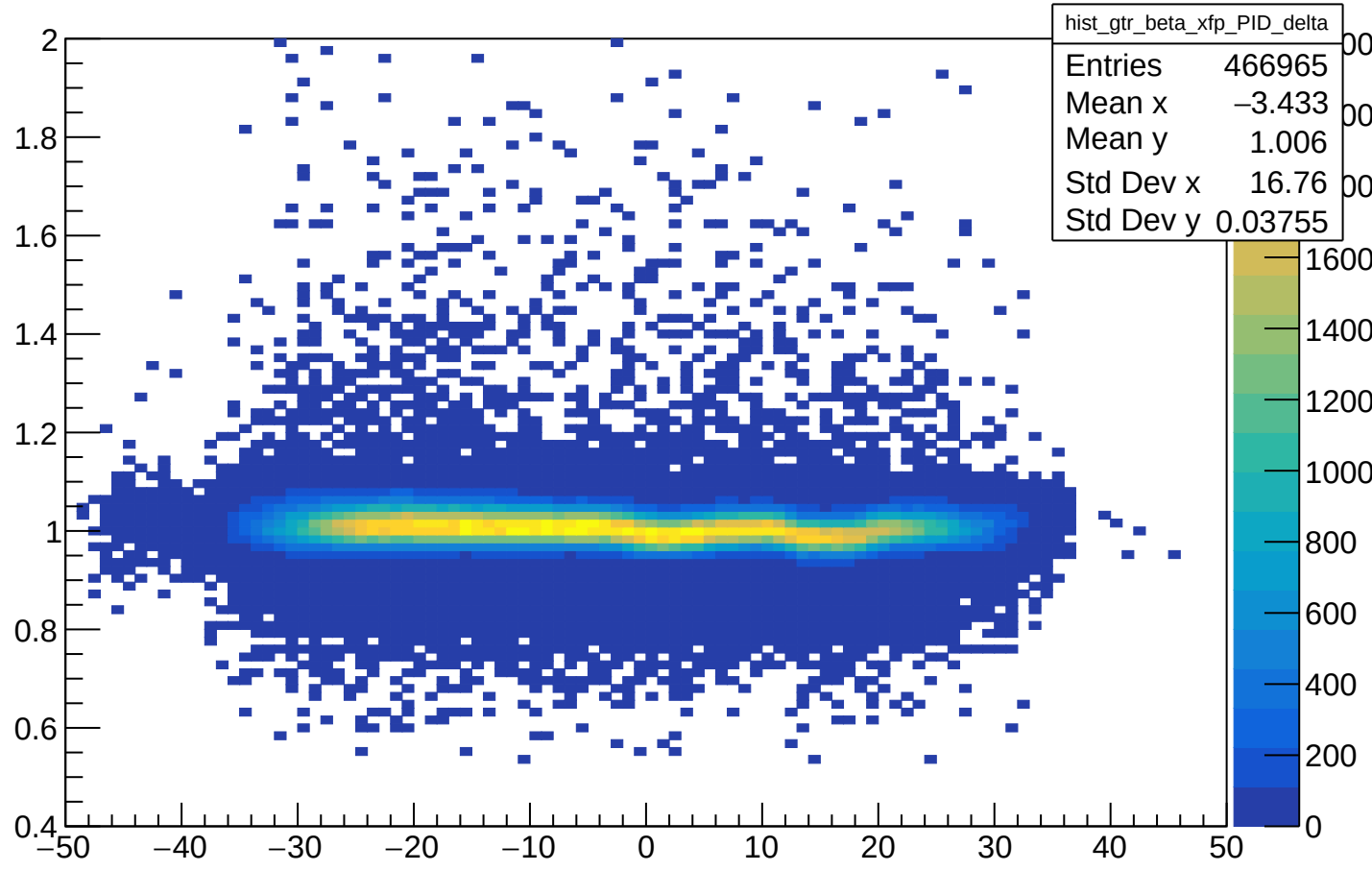

focal plane (PID cut)
hist_yfp_xfp_PID
Entries 657439
Mean x −5.072
Mean y −0.05719
Std Dev x 23.6
Std Dev y 8.057
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
1600
1400
1200
1000
800
600
400
200
0

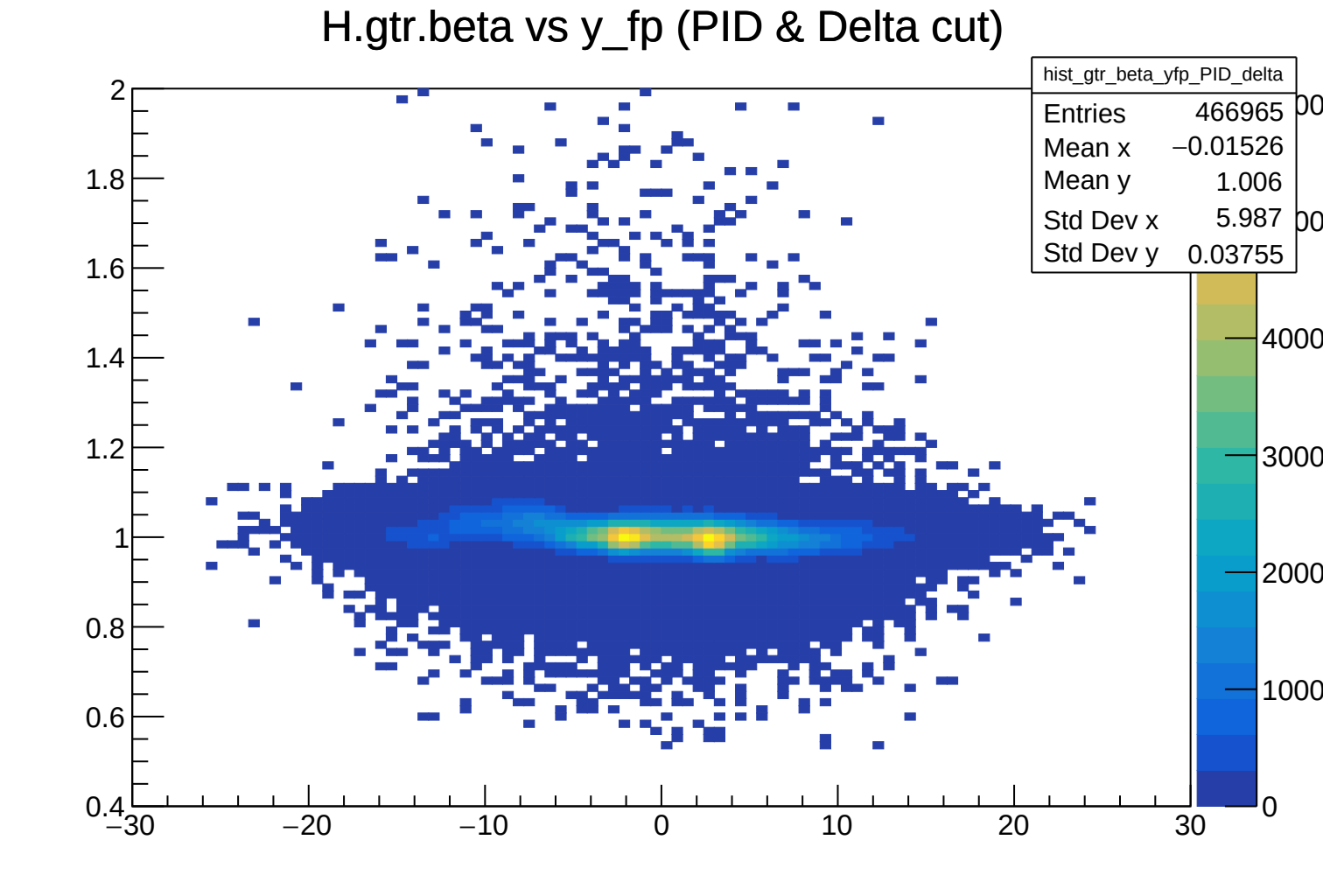

H.gtr.beta vs x_fp (PID cut)
hist_gtr_beta_xfp_PID
Entries 657439
Mean x −5.045
Mean y 1.007
Std Dev x 23.58
Std Dev y 0.03965
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−50
−40
−30
−20
−10
0
10
20
30
40
50
1600
1400
1200
1000
800
600
400
200
0

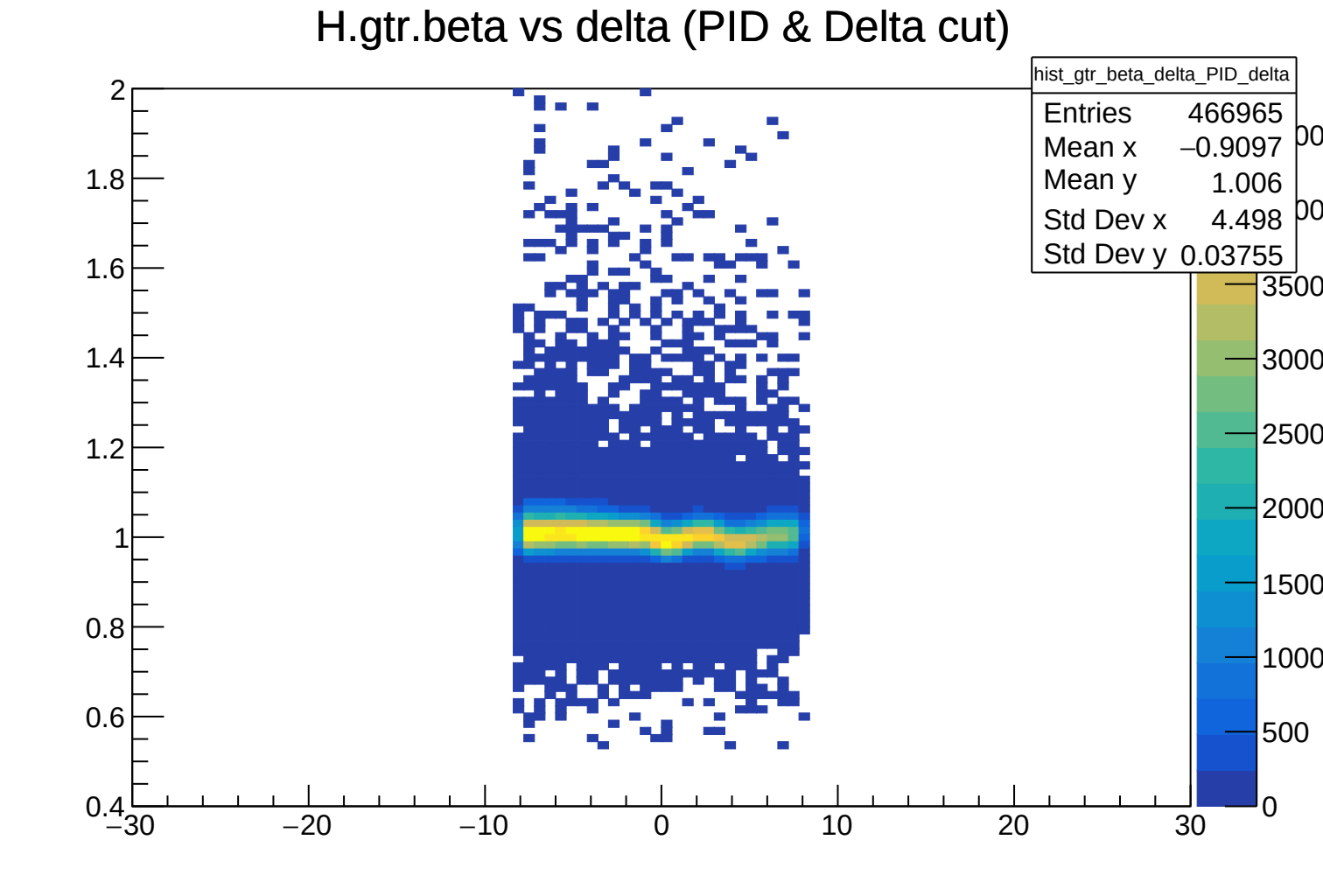

H.gtr.beta vs y_fp (PID cut)
hist_gtr_beta_yfp_PID
Entries 657439
Mean x −0.05626
Mean y 1.007
Std Dev x 8.056
Std Dev y 0.03965
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
4000
3000
2000
1000
0


H.gtr.beta vs delta (PID cut)
hist_gtr_beta_delta_PID
Entries 657439
Mean x −1.165
Mean y 1.007
Std Dev x 6.539
Std Dev y 0.03955
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
3500
3000
2500
2000
1500
1000
500
0


focal plane (PID & Delta cut)
hist_yfp_xfp_PID_delta
Entries 466965
Mean x −3.434
Mean y −0.01497
Std Dev x 16.76
Std Dev y 5.987
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
1600
1400
1200
1000
800
600
400
200
0


H.gtr.beta vs x_fp (PID & Delta cut)
hist_gtr_beta_xfp_PID_delta
Entries 466965
Mean x −3.433
Mean y 1.006
Std Dev x 16.76
Std Dev y 0.03755
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
1600
1400
1200
1000
800
600
400
200
0


H.gtr.beta vs y_fp (PID & Delta cut)
hist_gtr_beta_yfp_PID_delta
Entries 466965
Mean x −0.01526
Mean y 1.006
Std Dev x 5.987
Std Dev y 0.03755
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
4000
3000
2000
1000
0


H.gtr.beta vs delta (PID & Delta cut)
hist_gtr_beta_delta_PID_delta
Entries 466965
Mean x −0.9097
Mean y 1.006
Std Dev x 4.498
Std Dev y 0.03755
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
3500
3000
2500
2000
1500
1000
500
0