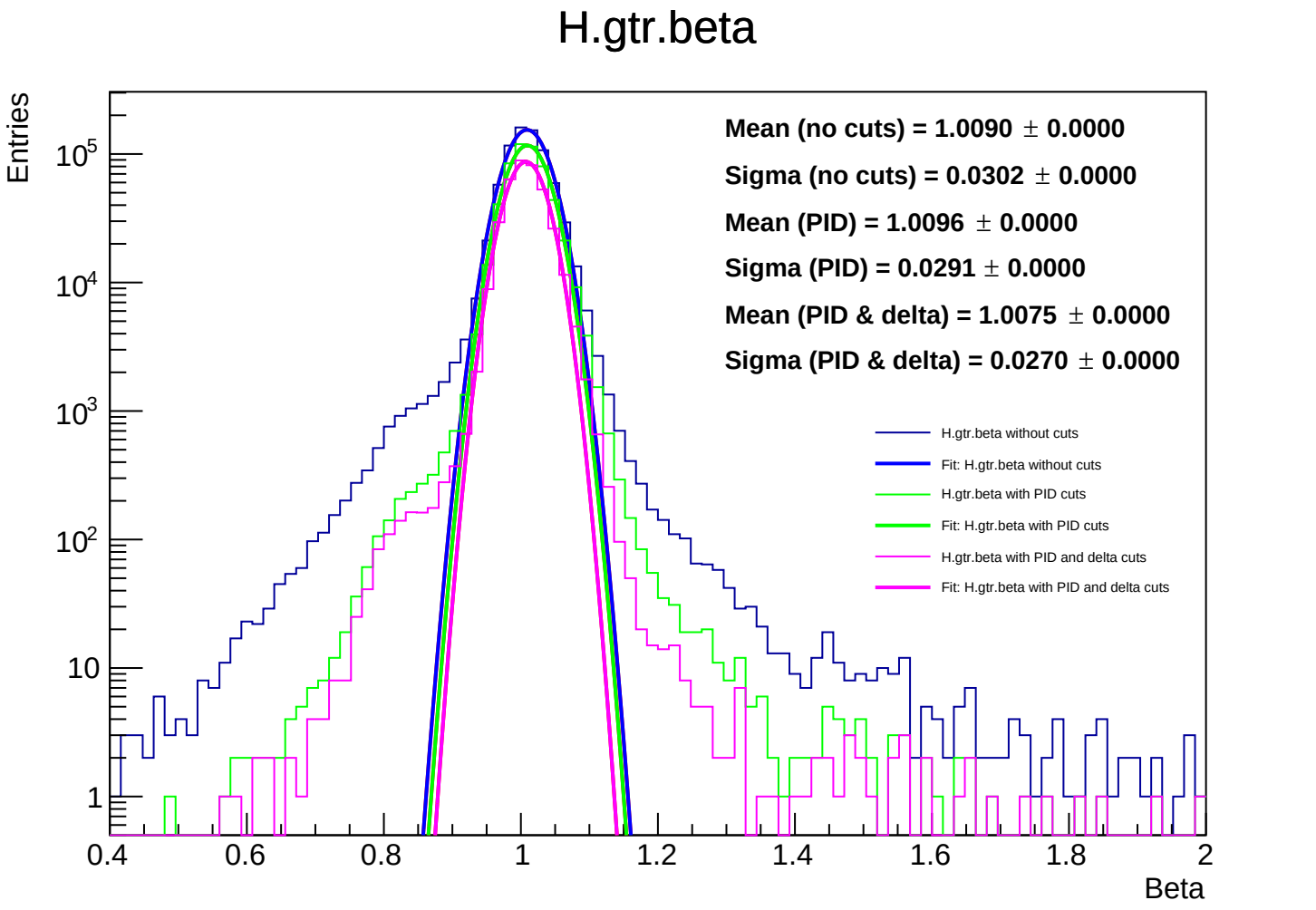
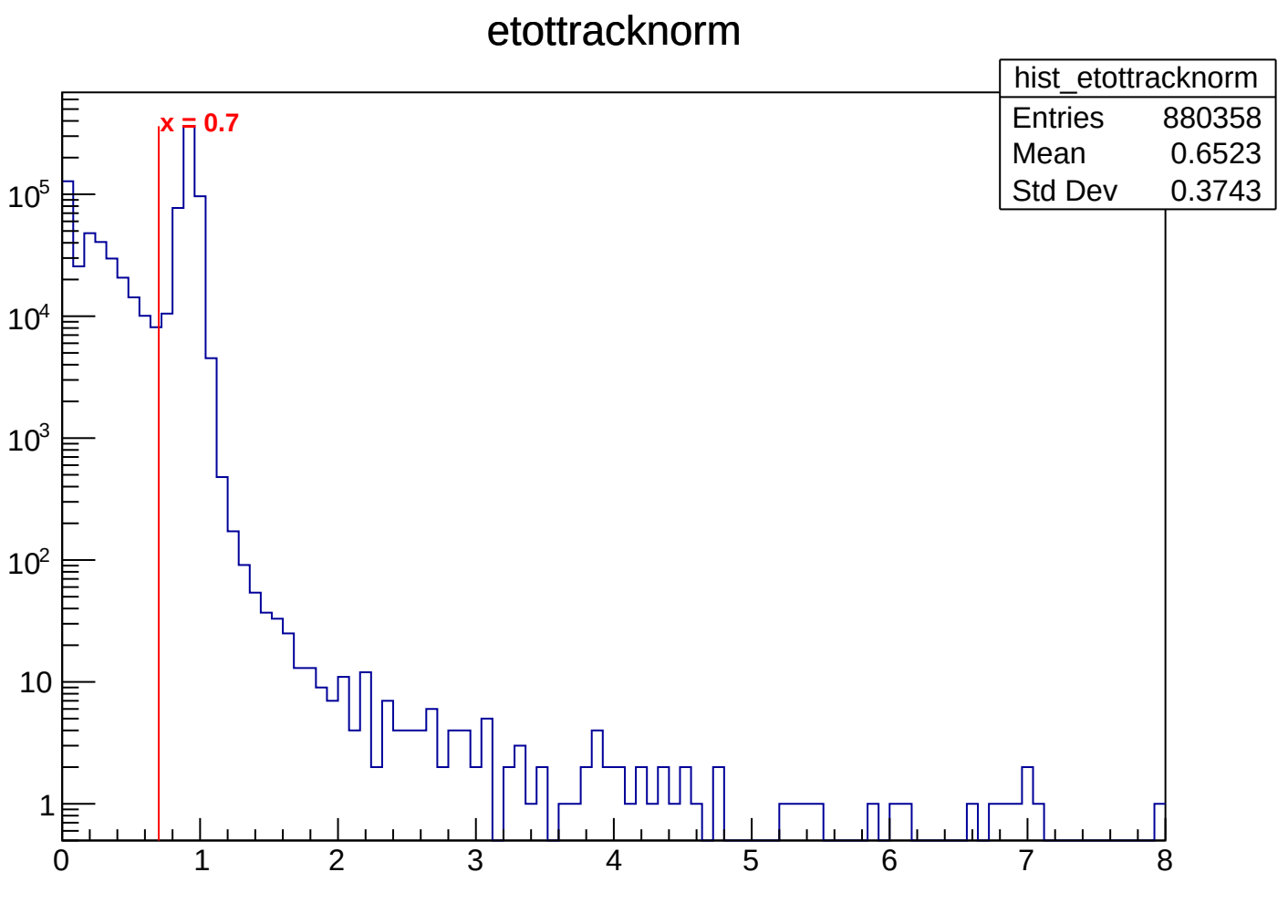
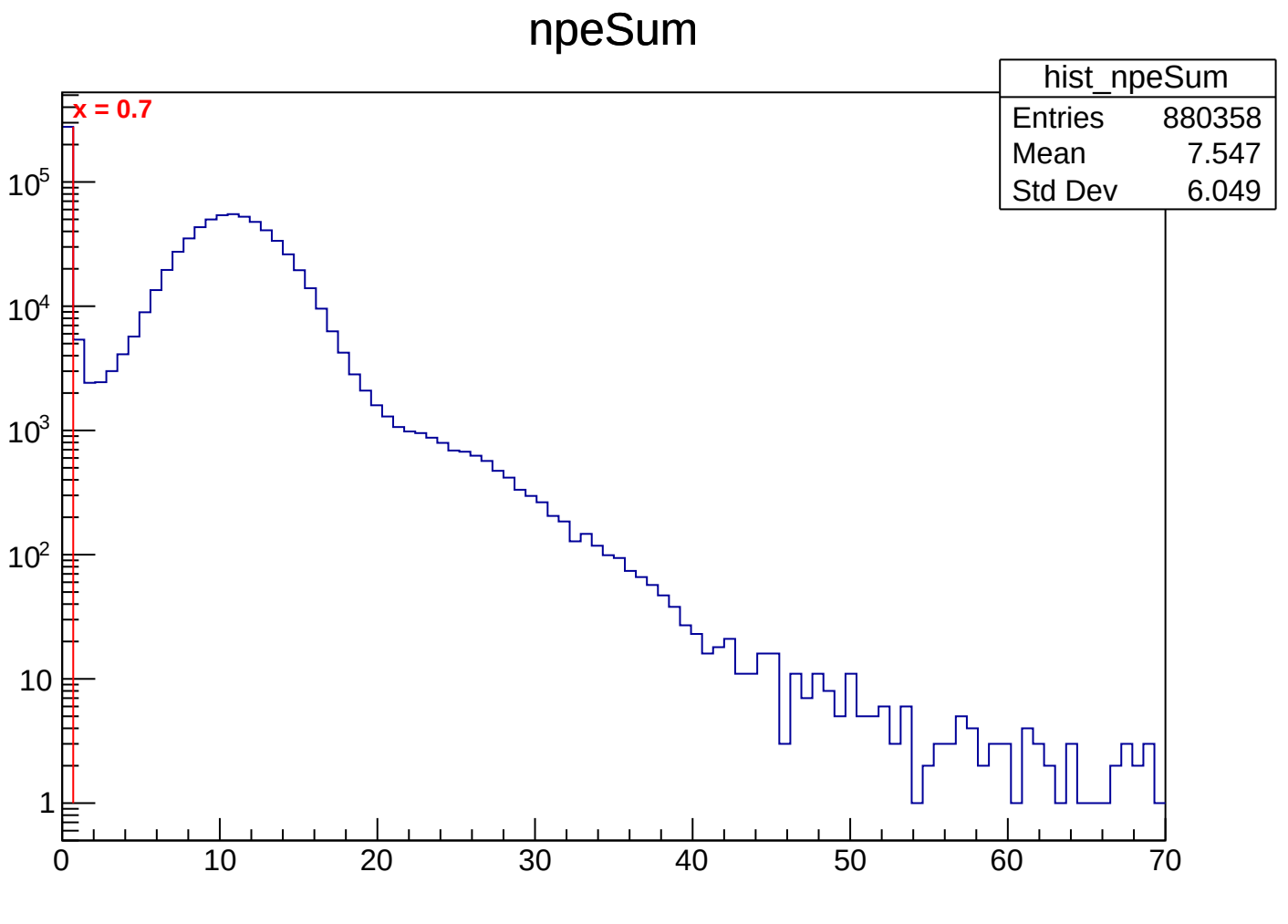
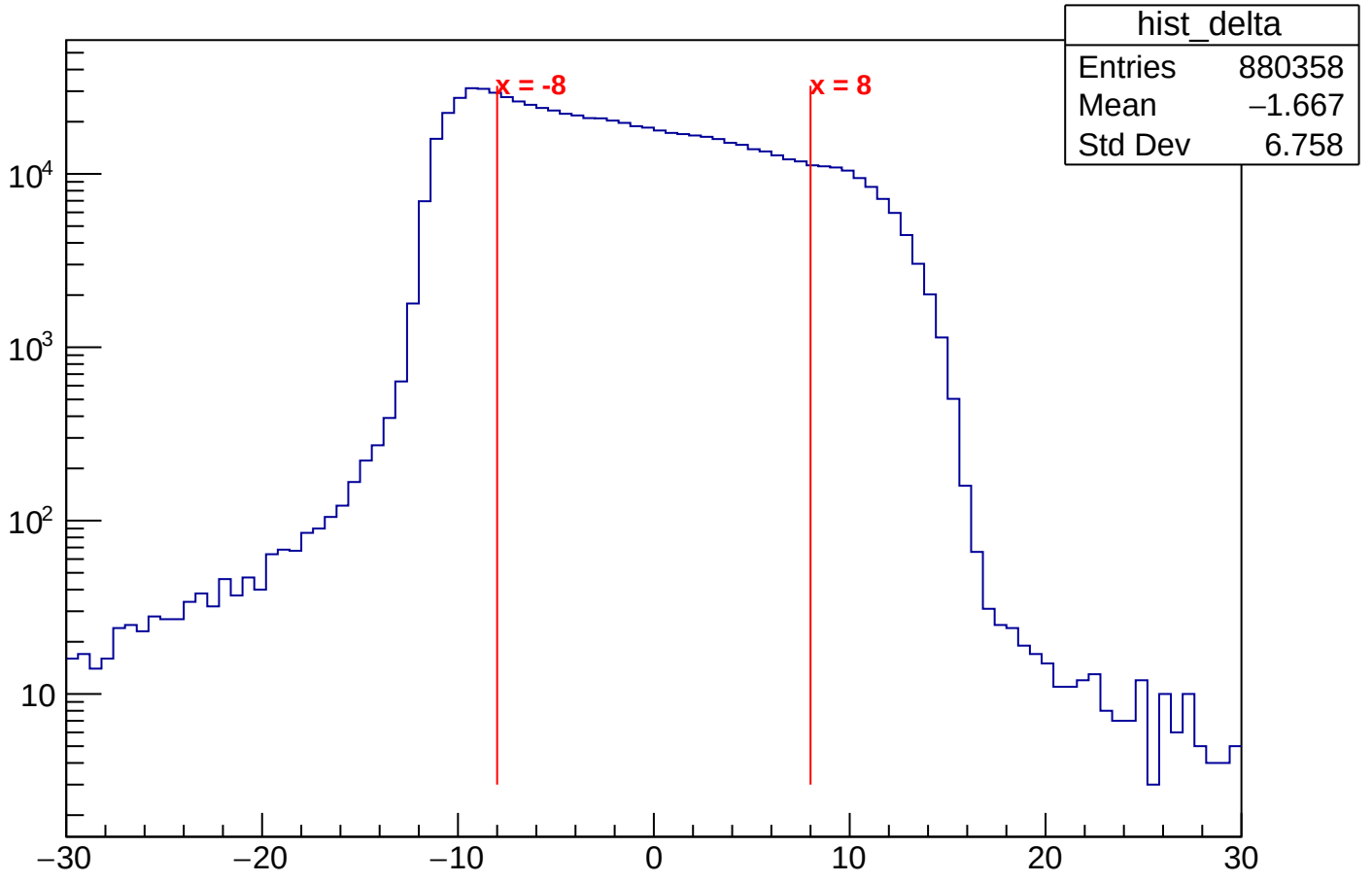
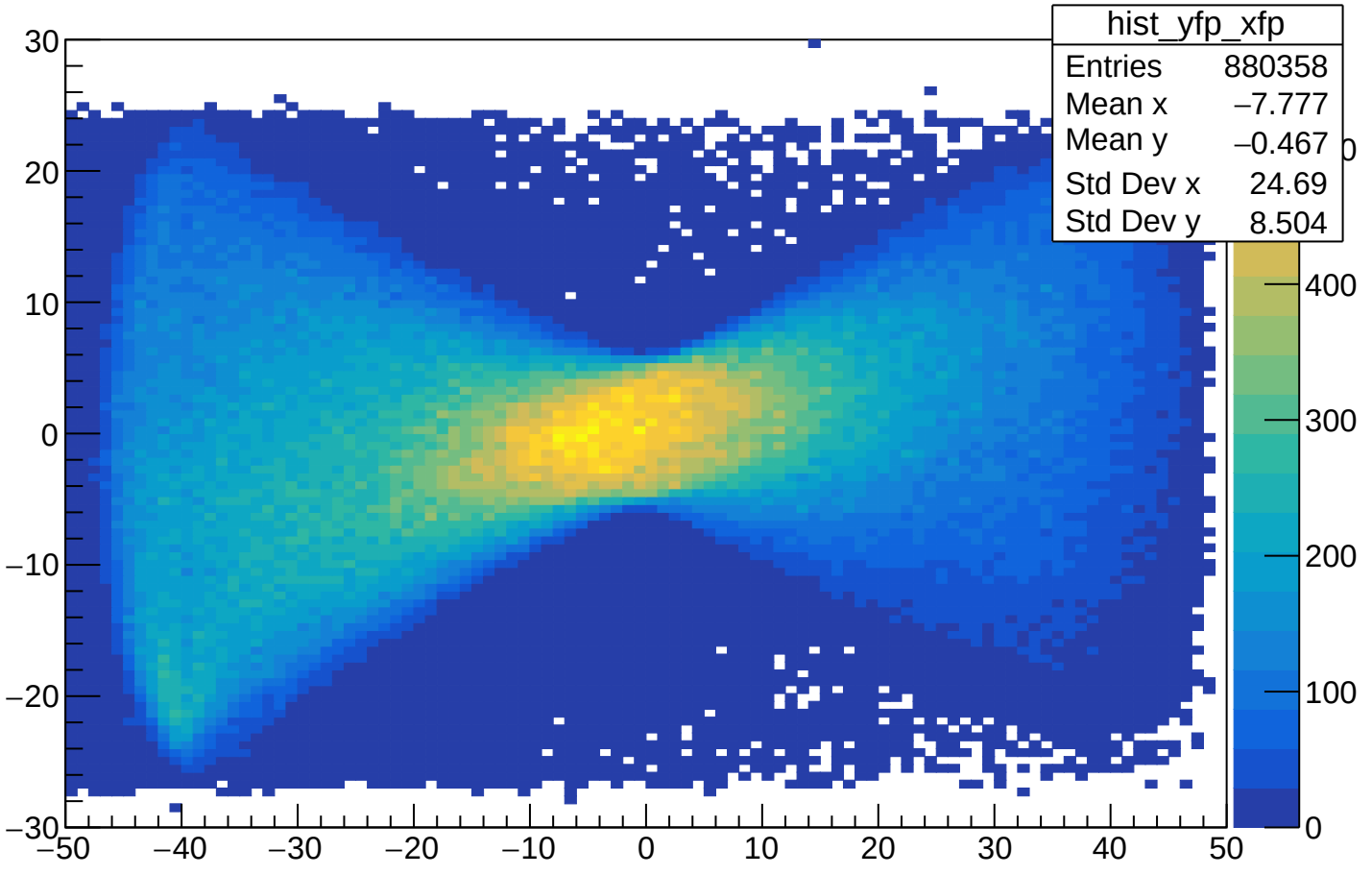
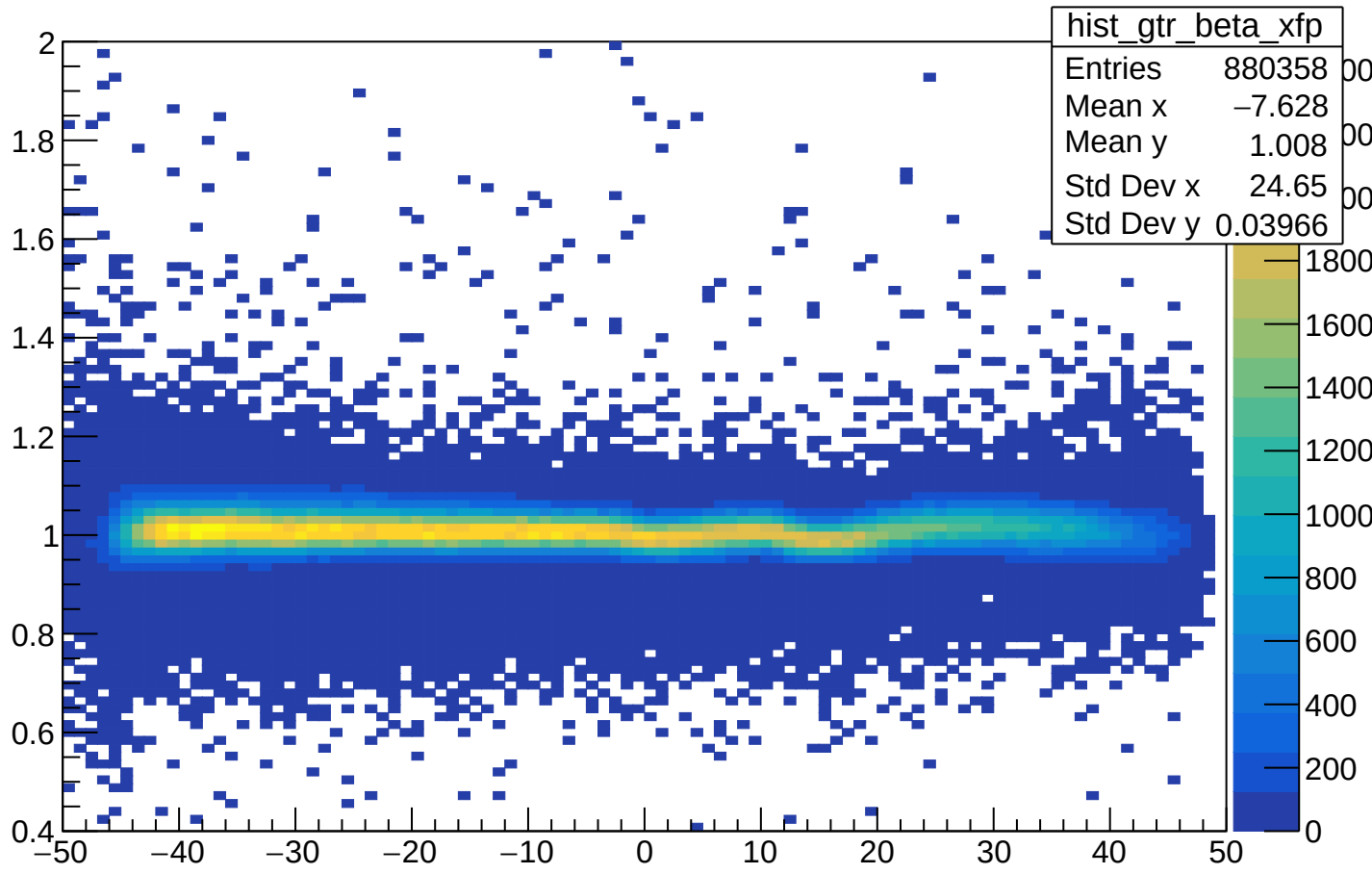

H.gtr.beta
Entries
Beta
Mean (no cuts) = 1.0090 ± 0.0000
Sigma (no cuts) = 0.0302 ± 0.0000
Mean (PID) = 1.0096 ± 0.0000
Sigma (PID) = 0.0291 ± 0.0000
Mean (PID & delta) = 1.0075 ± 0.0000
Sigma (PID & delta) = 0.0270 ± 0.0000
H.gtr.beta without cuts
Fit: H.gtr.beta without cuts
H.gtr.beta with PID cuts
Fit: H.gtr.beta with PID cuts
H.gtr.beta with PID and delta cuts
Fit: H.gtr.beta with PID and delta cuts

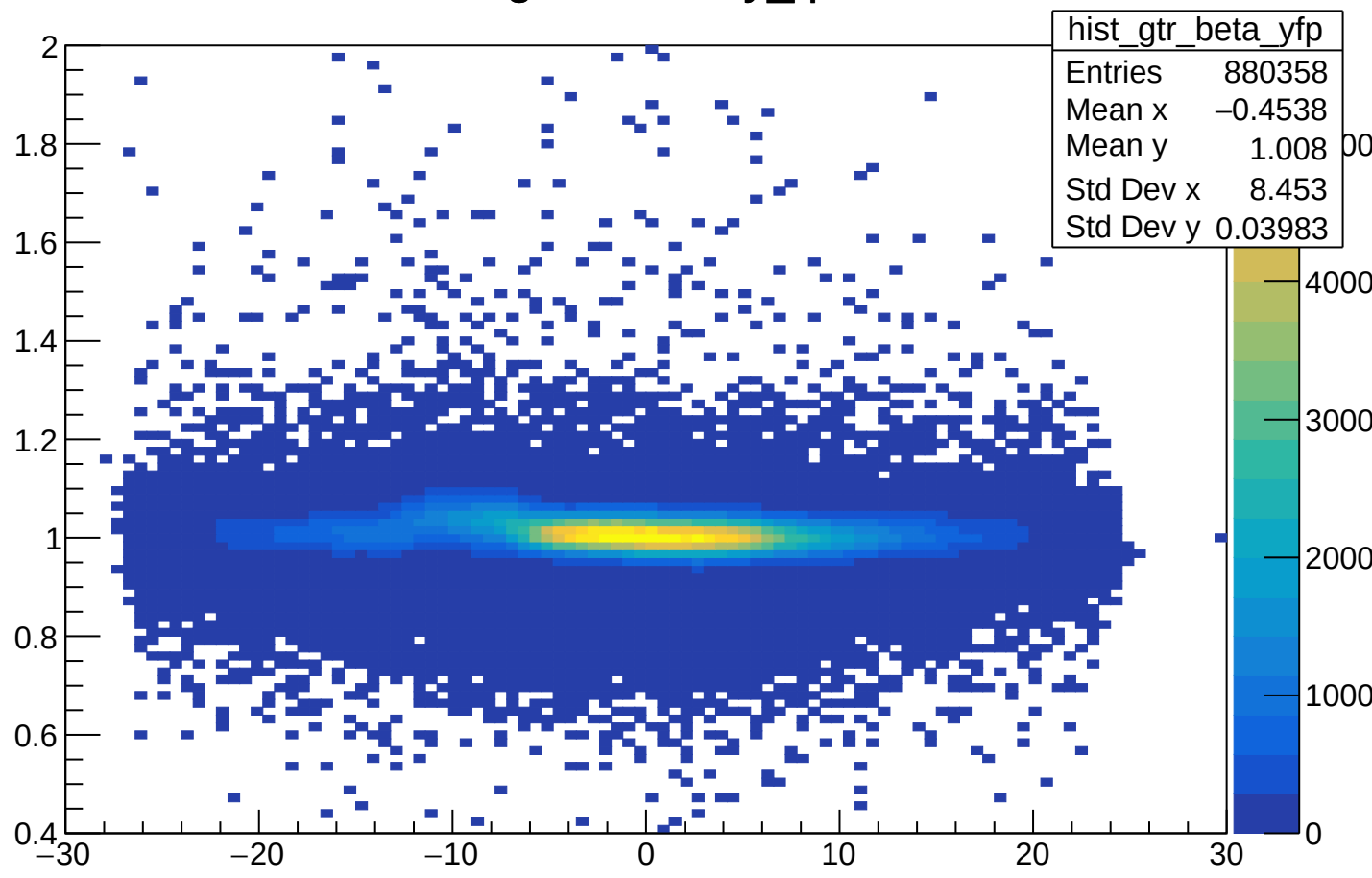

etottracknorm
hist_etottracknorm
Entries 880358
Mean 0.6523
Std Dev 0.3743
x = 0.7
10^5
10^4
10^3
10^2
10
1
0
1
2
3
4
5
6
7
8

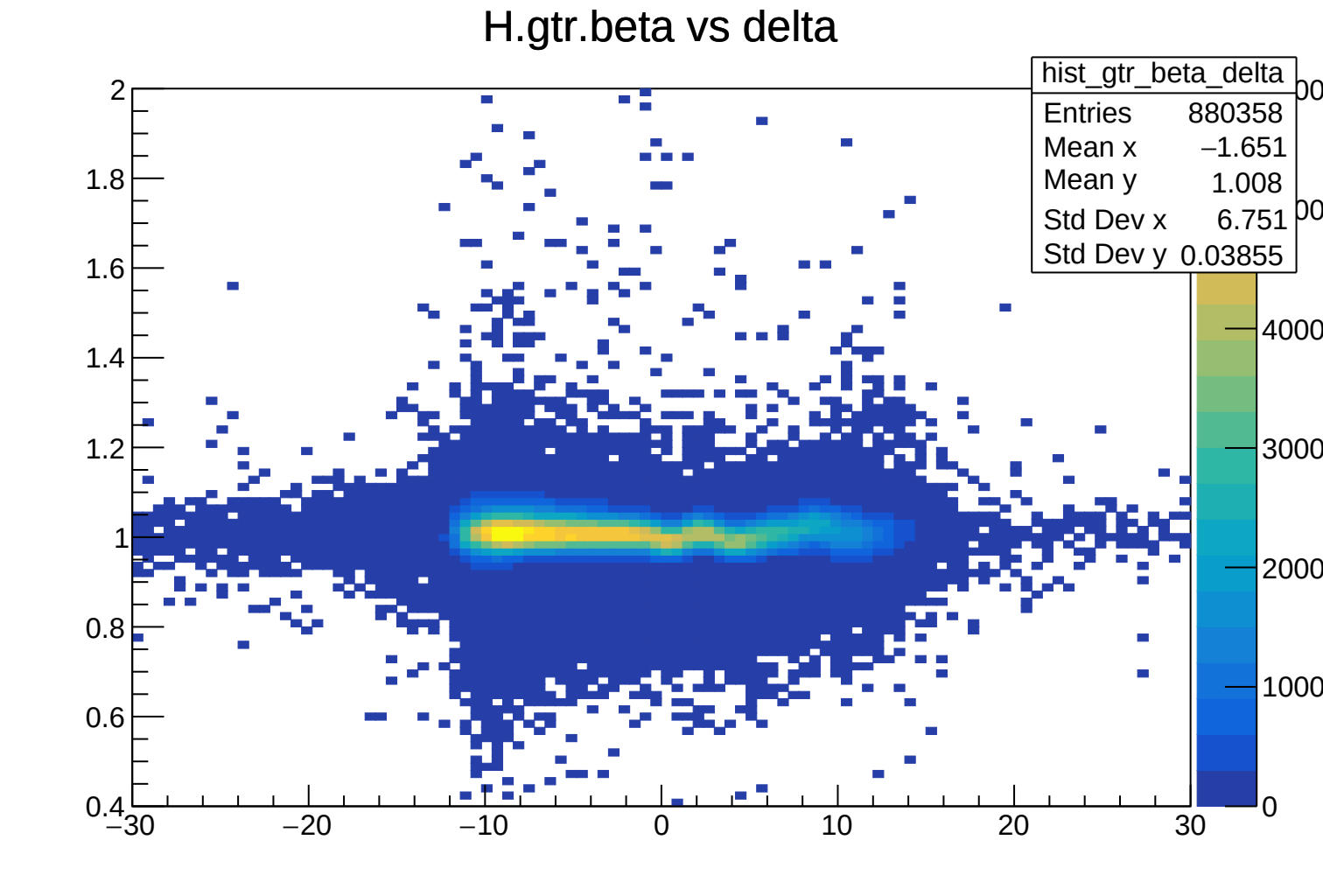

npeSum
hist_npeSum
Entries 880358
Mean 7.547
Std Dev 6.049
x = 0.7
10^5
10^4
10^3
10^2
10
1
0
10
20
30
40
50
60
70

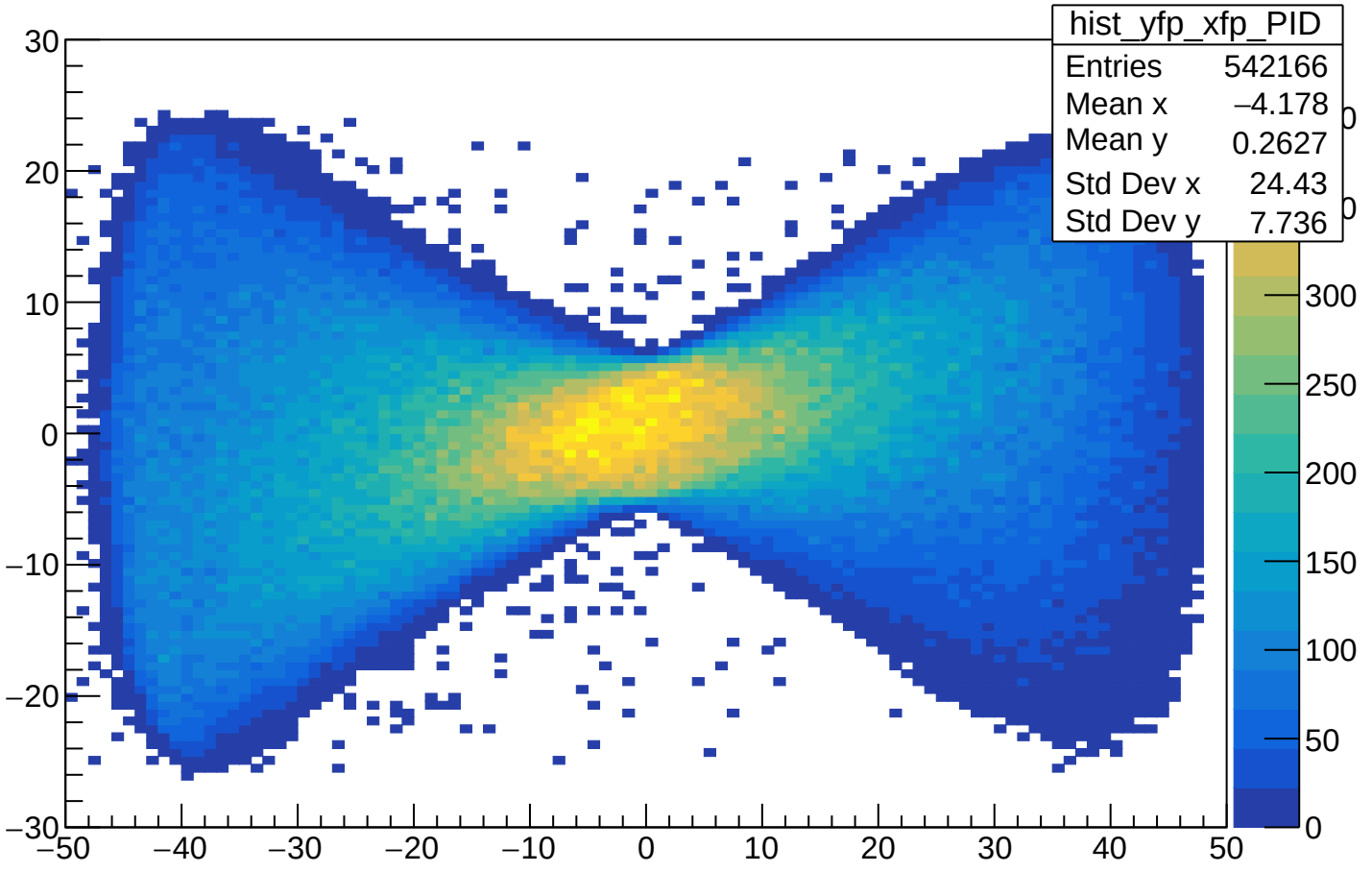

delta
hist_delta
Entries 880358
Mean −1.667
Std Dev 6.758
x = -8
x = 8
10^4
10^3
10^2
10
−30
−20
−10
0
10
20
30

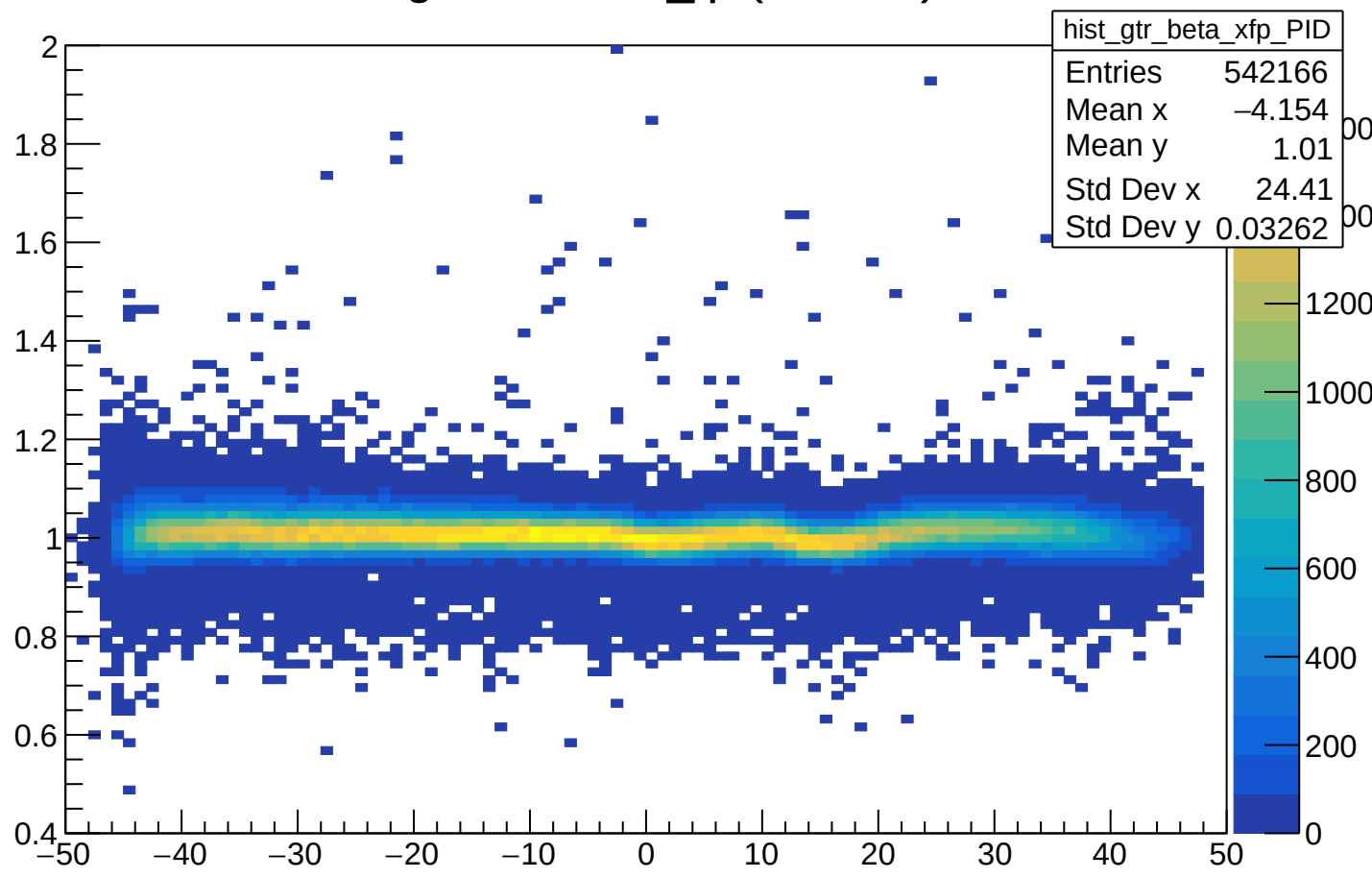

focal plane
hist_yfp_xfp
Entries 880358
Mean x −7.777
Mean y −0.467
Std Dev x 24.69
Std Dev y 8.504
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
400
300
200
100
0

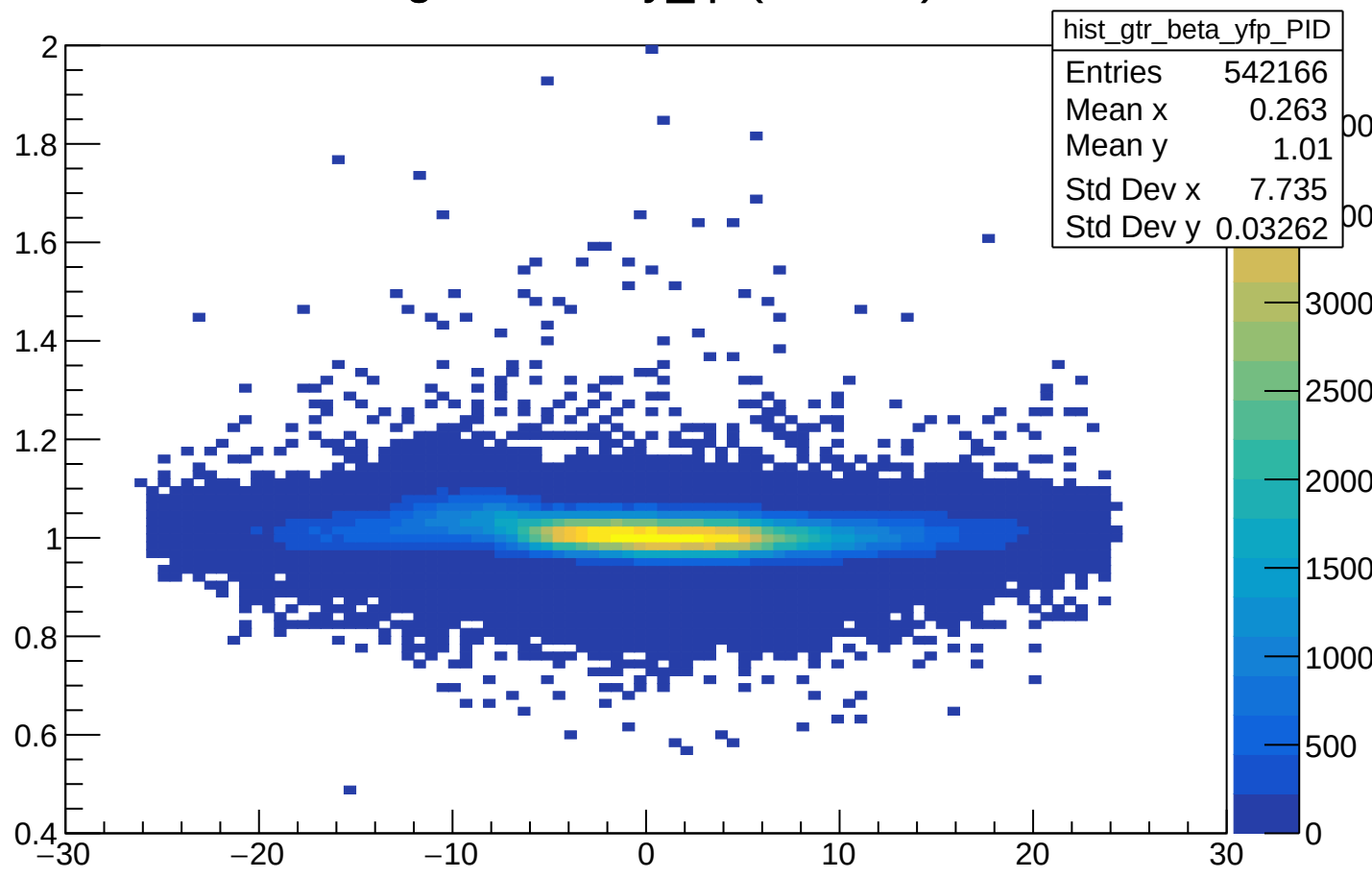

H.gtr.beta vs x_fp
hist_gtr_beta_xfp
Entries 880358
Mean x −7.628
Mean y 1.008
Std Dev x 24.65
Std Dev y 0.03966
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−50
−40
−30
−20
−10
0
10
20
30
40
50
1800
1600
1400
1200
1000
800
600
400
200
0

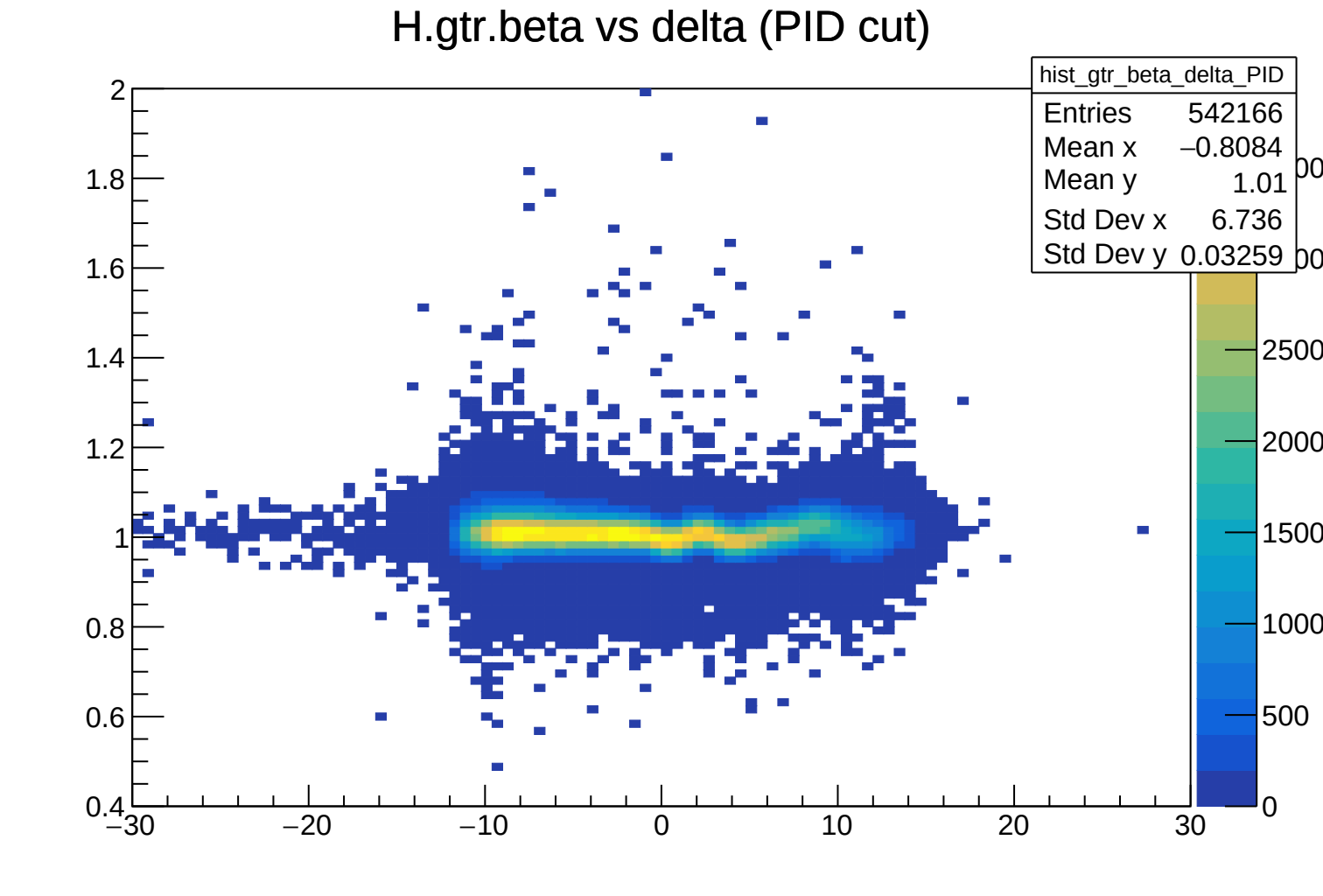

H.gtr.beta vs y_fp
hist_gtr_beta_yfp
Entries 880358
Mean x −0.4538
Mean y 1.008
Std Dev x 8.453
Std Dev y 0.03983
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
4000
3000
2000
1000
0

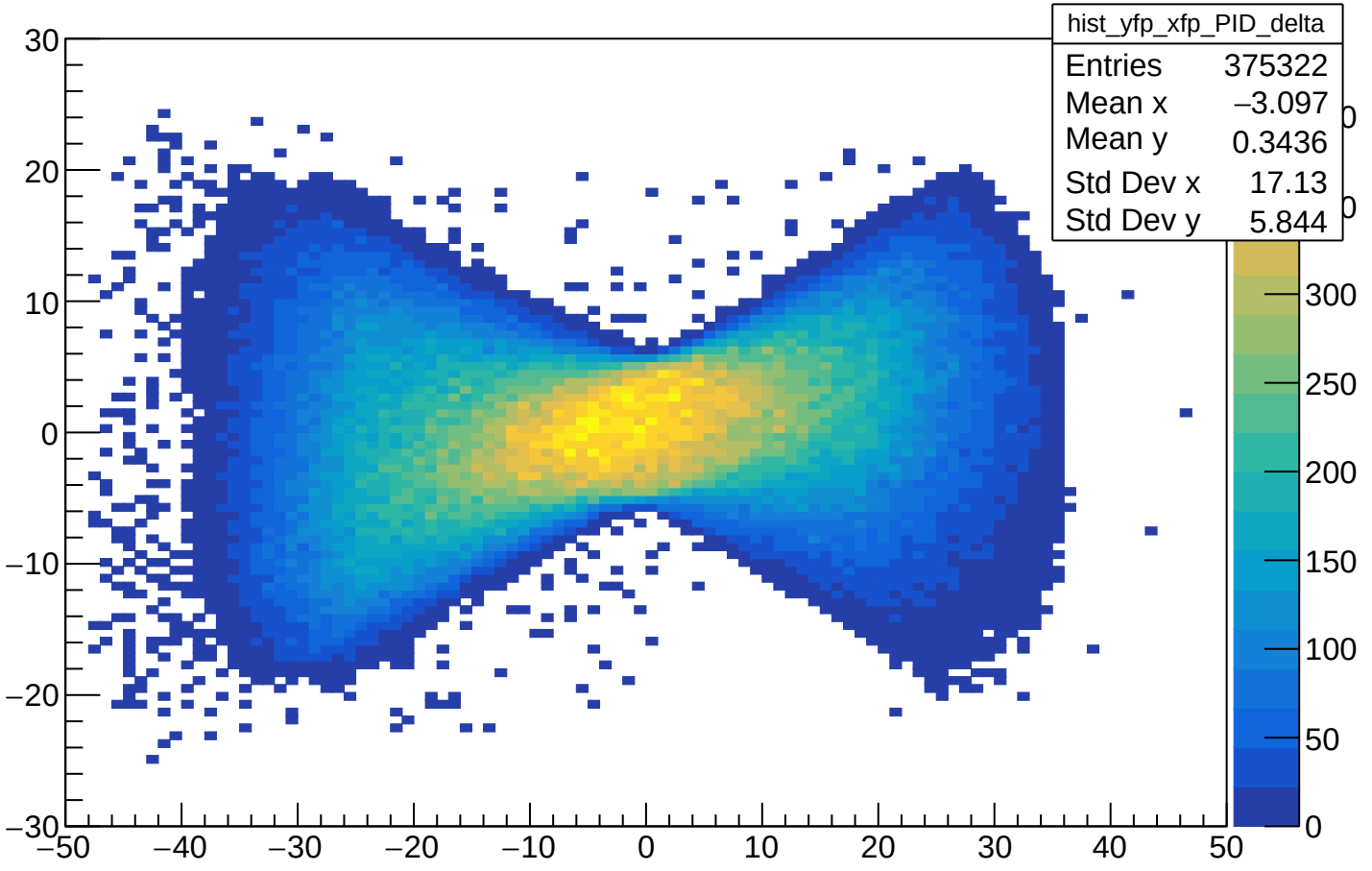

H.gtr.beta vs delta
hist_gtr_beta_delta
Entries 880358
Mean x −1.651
Mean y 1.008
Std Dev x 6.751
Std Dev y 0.03855
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
4000
3000
2000
1000
0

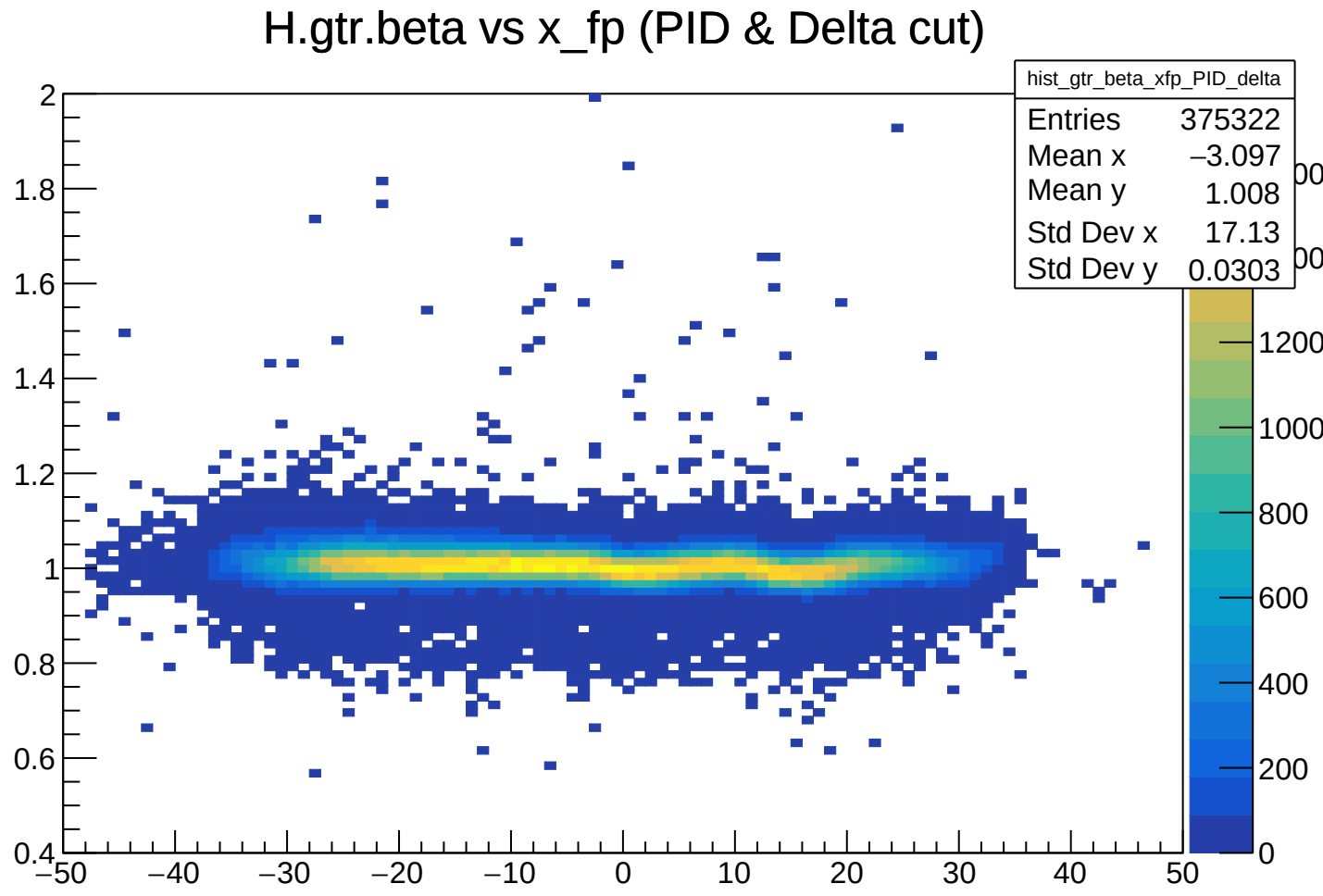

focal plane (PID cut)
hist_yfp_xfp_PID
Entries 542166
Mean x –4.178
Mean y 0.2627
Std Dev x 24.43
Std Dev y 7.736
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
300
250
200
150
100
50
0

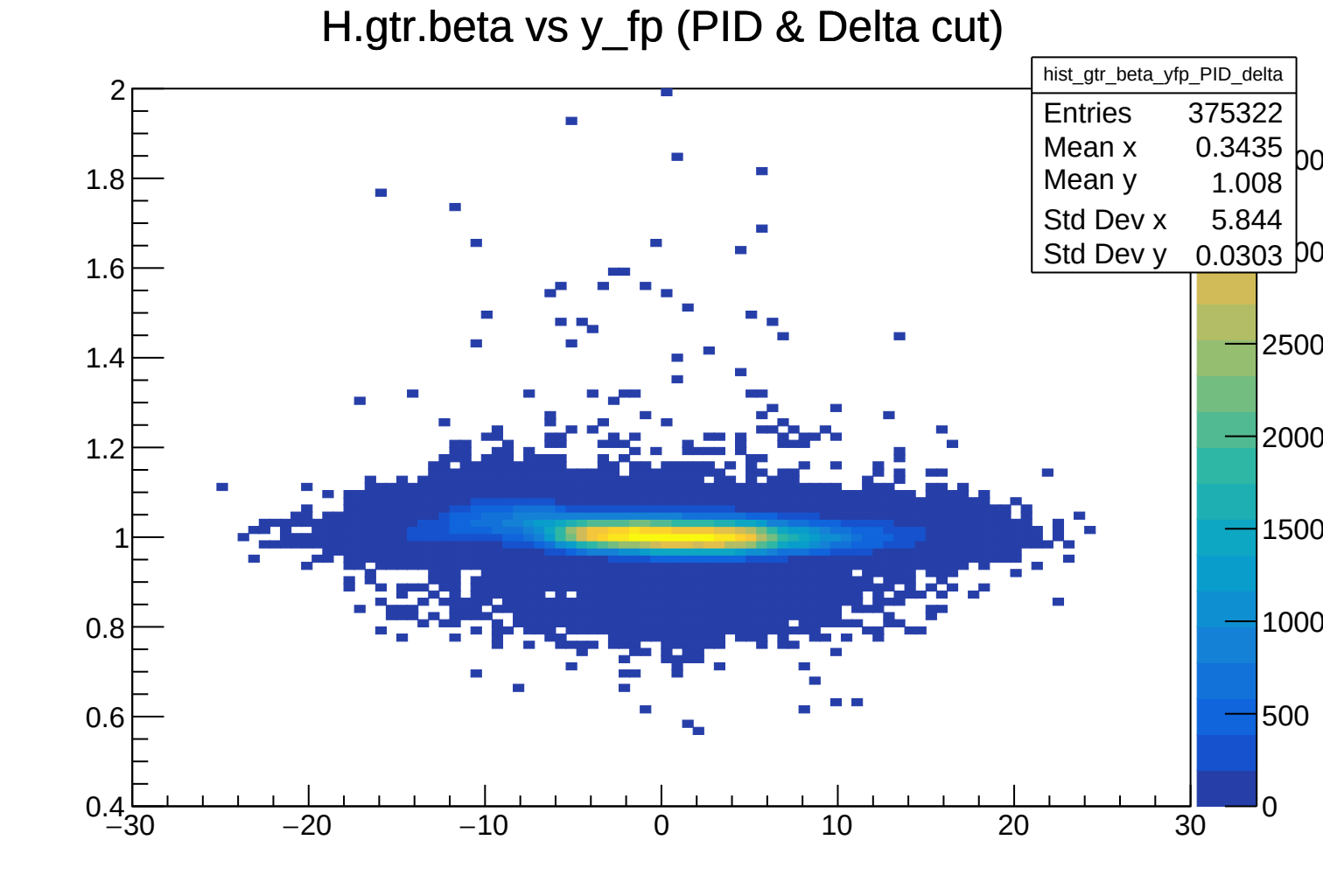

H.gtr.beta vs x_fp (PID cut)
hist_gtr_beta_xfp_PID
Entries 542166
Mean x –4.154
Mean y 1.01
Std Dev x 24.41
Std Dev y 0.03262
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
–50
–40
–30
–20
–10
0
10
20
30
40
50
1200
1000
800
600
400
200
0

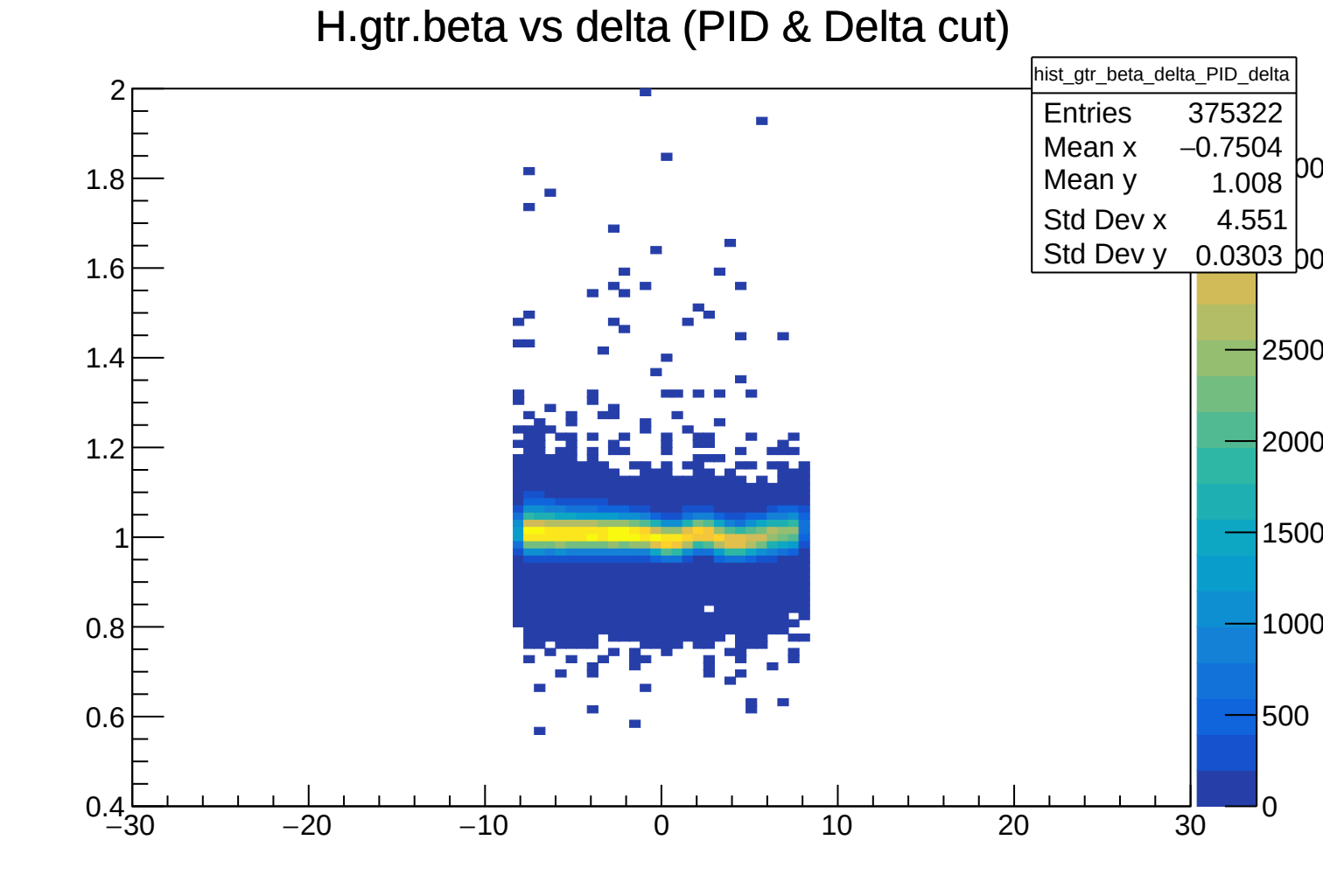

H.gtr.beta vs y_fp (PID cut)
hist_gtr_beta_yfp_PID
Entries 542166
Mean x 0.263
Mean y 1.01
Std Dev x 7.735
Std Dev y 0.03262
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
3000
2500
2000
1500
1000
500
0


H.gtr.beta vs delta (PID cut)
hist_gtr_beta_delta_PID
Entries 542166
Mean x −0.8084
Mean y 1.01
Std Dev x 6.736
Std Dev y 0.03259
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
2500
2000
1500
1000
500
0


focal plane (PID & Delta cut)
hist_yfp_xfp_PID_delta
Entries 375322
Mean x –3.097
Mean y 0.3436
Std Dev x 17.13
Std Dev y 5.844
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 (PID & Delta cut)
hist_gtr_beta_xfp_PID_delta
Entries 375322
Mean x –3.097
Mean y 1.008
Std Dev x 17.13
Std Dev y 0.0303
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
1200
1000
800
600
400
200
0


H.gtr.beta vs y_fp (PID & Delta cut)
hist_gtr_beta_yfp_PID_delta
Entries 375322
Mean x 0.3435
Mean y 1.008
Std Dev x 5.844
Std Dev y 0.0303
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
2500
2000
1500
1000
500
0


H.gtr.beta vs delta (PID & Delta cut)
hist_gtr_beta_delta_PID_delta
Entries 375322
Mean x −0.7504
Mean y 1.008
Std Dev x 4.551
Std Dev y 0.0303
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
2500
2000
1500
1000
500
0