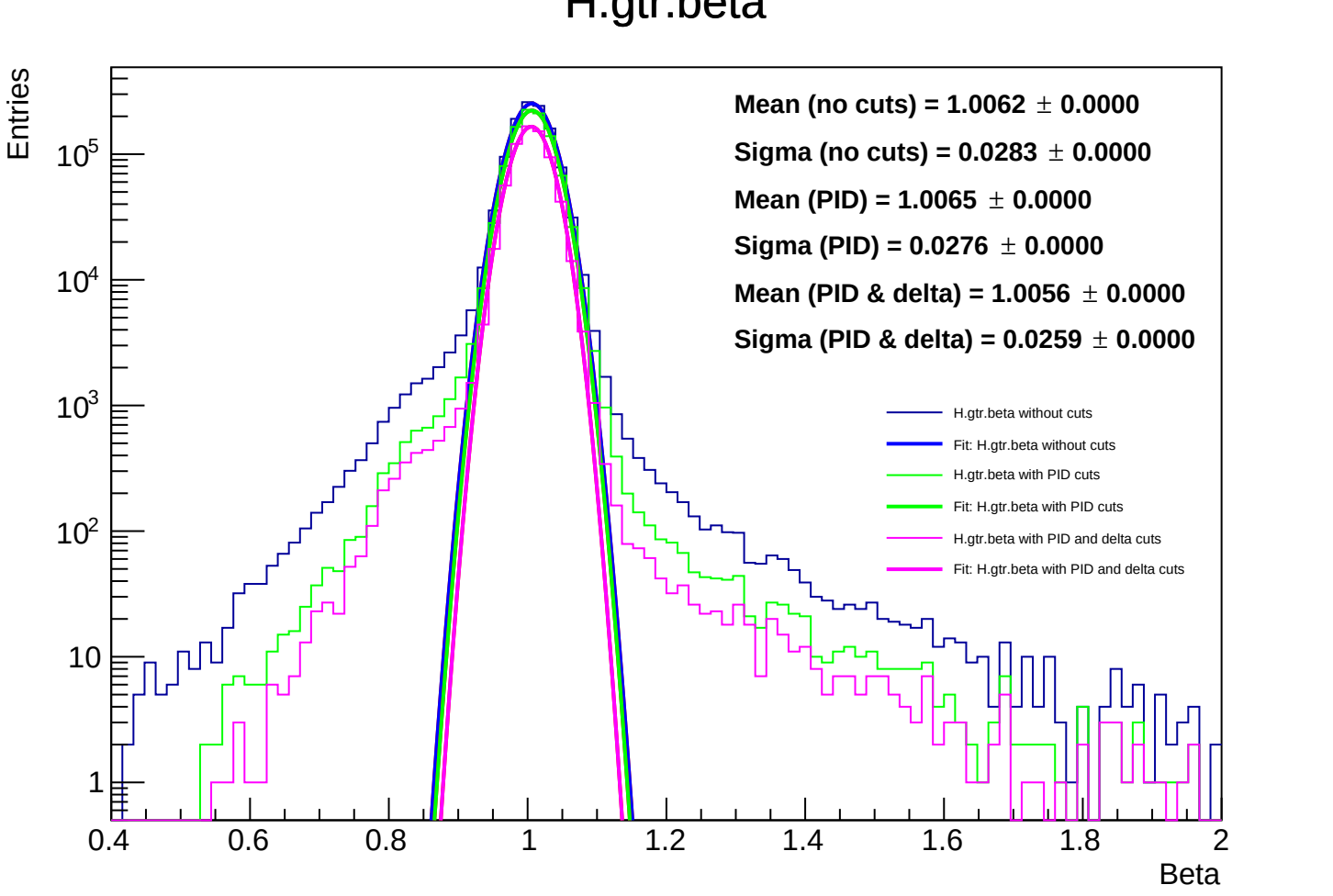
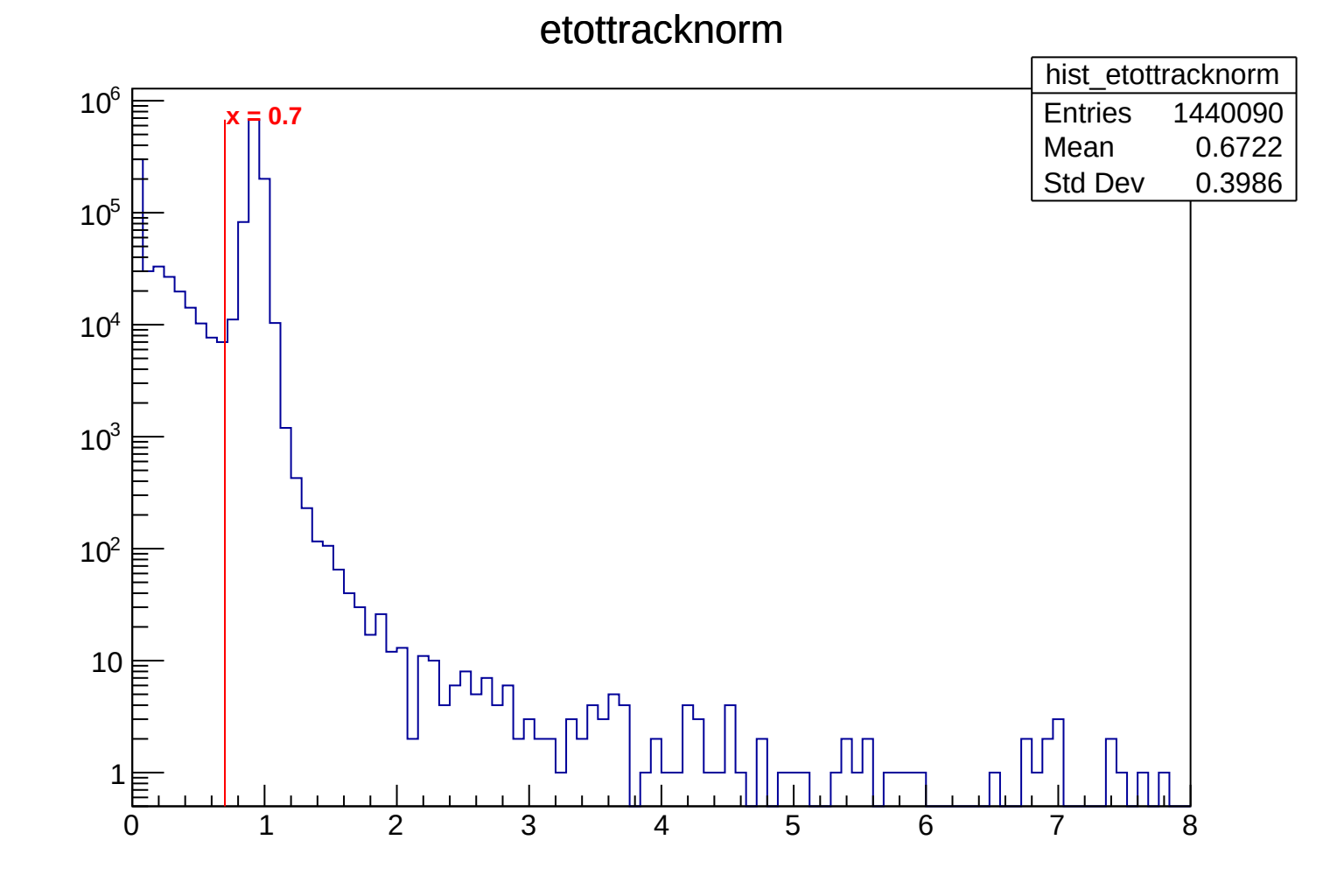
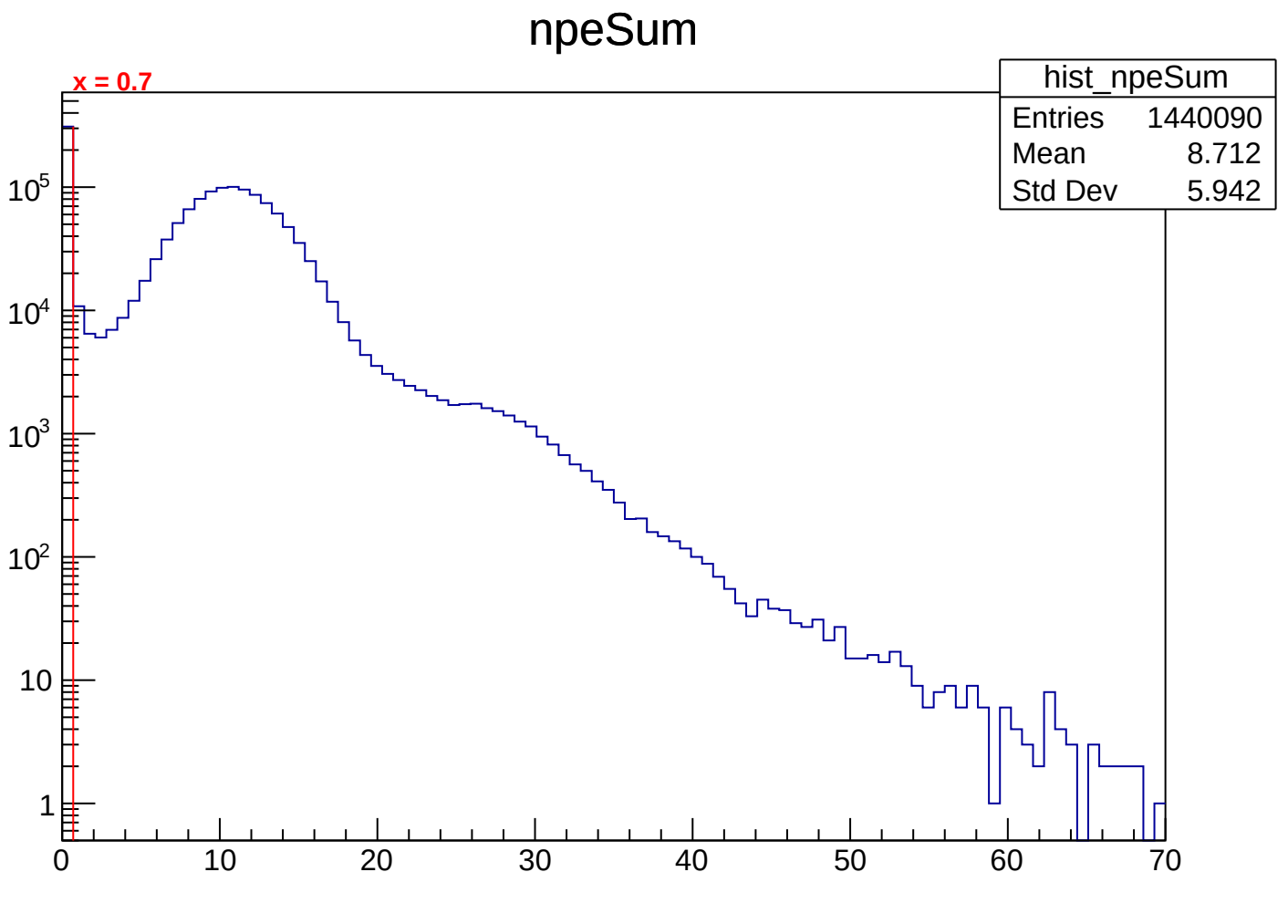
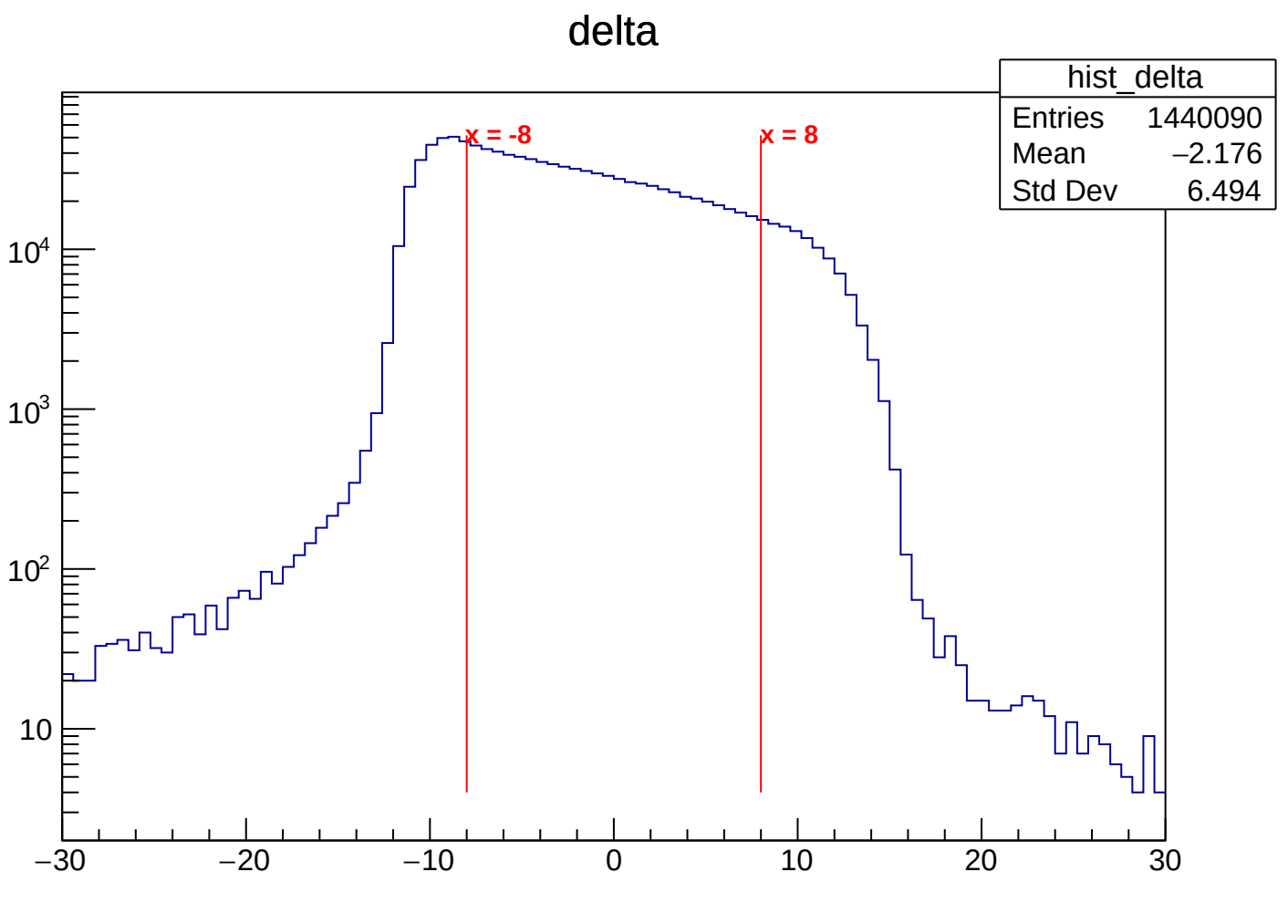
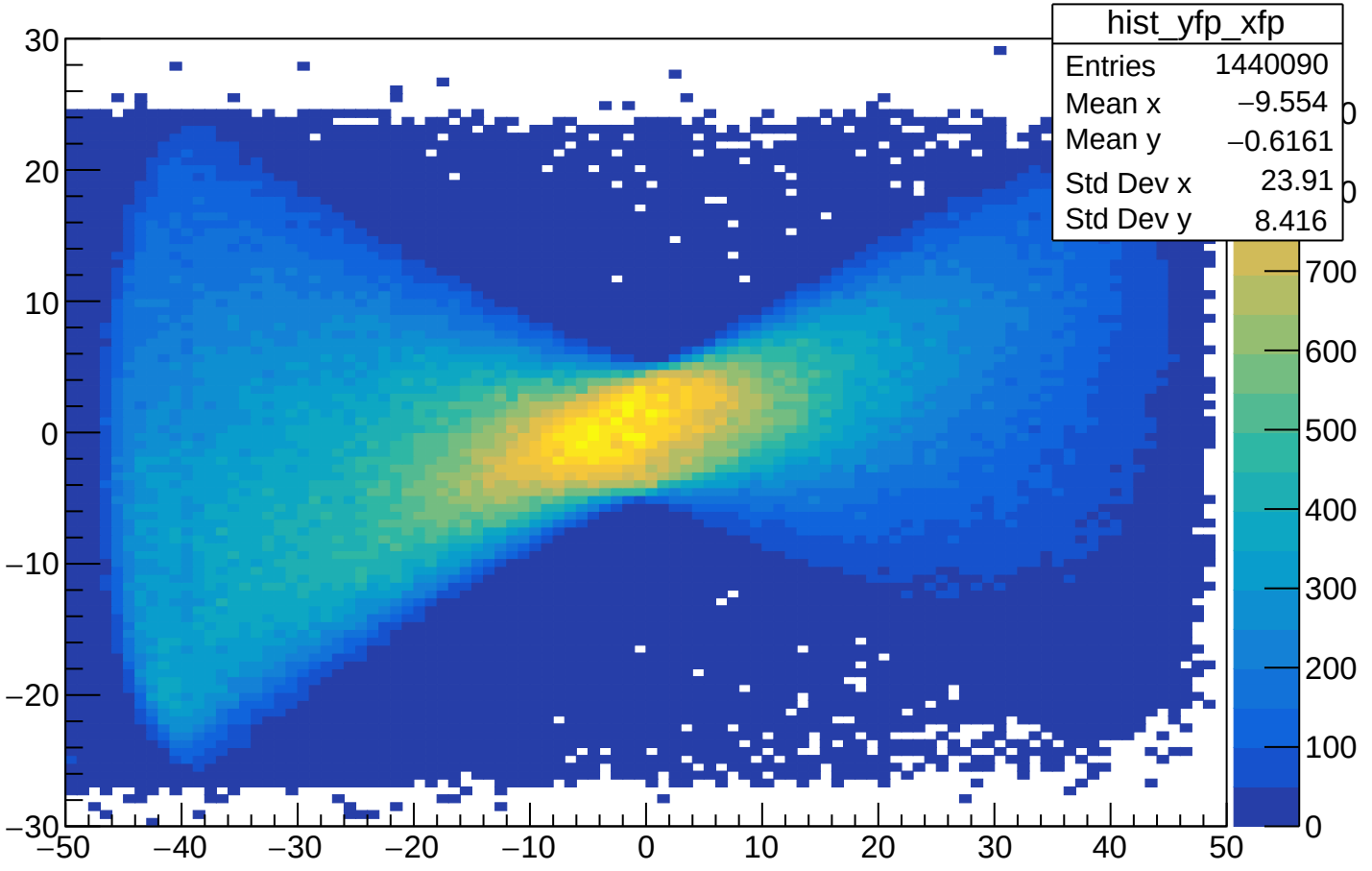
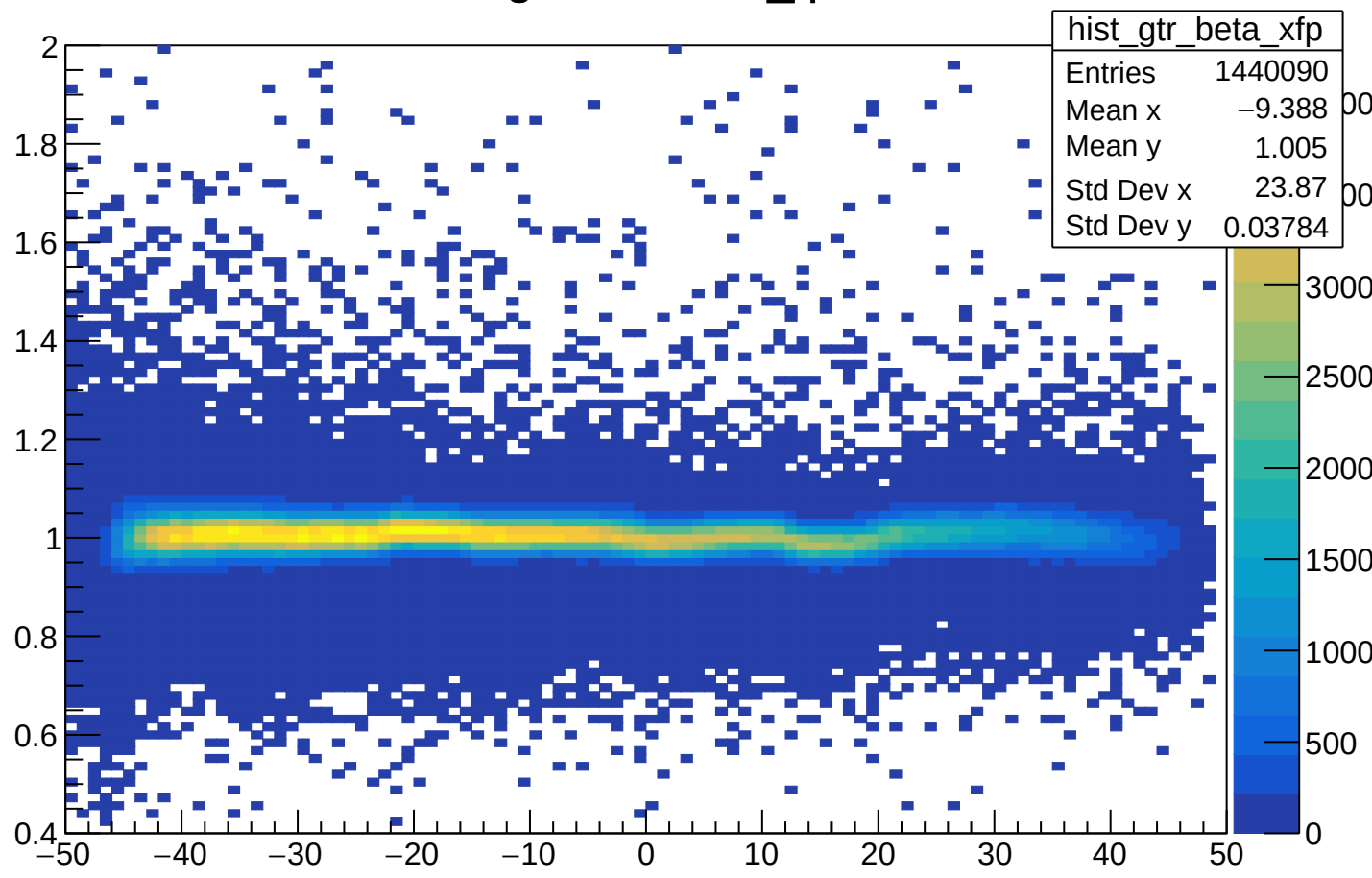

H.gtr.beta
Entries
Beta
Mean (no cuts) = 1.0062 ± 0.0000
Sigma (no cuts) = 0.0283 ± 0.0000
Mean (PID) = 1.0065 ± 0.0000
Sigma (PID) = 0.0276 ± 0.0000
Mean (PID & delta) = 1.0056 ± 0.0000
Sigma (PID & delta) = 0.0259 ± 0.0000
H.gtr.beta without cuts
Fit: H.gtr.beta without cuts
H.gtr.beta with PID cuts
Fit: H.gtr.beta with PID cuts
H.gtr.beta with PID and delta cuts
Fit: H.gtr.beta with PID and delta cuts

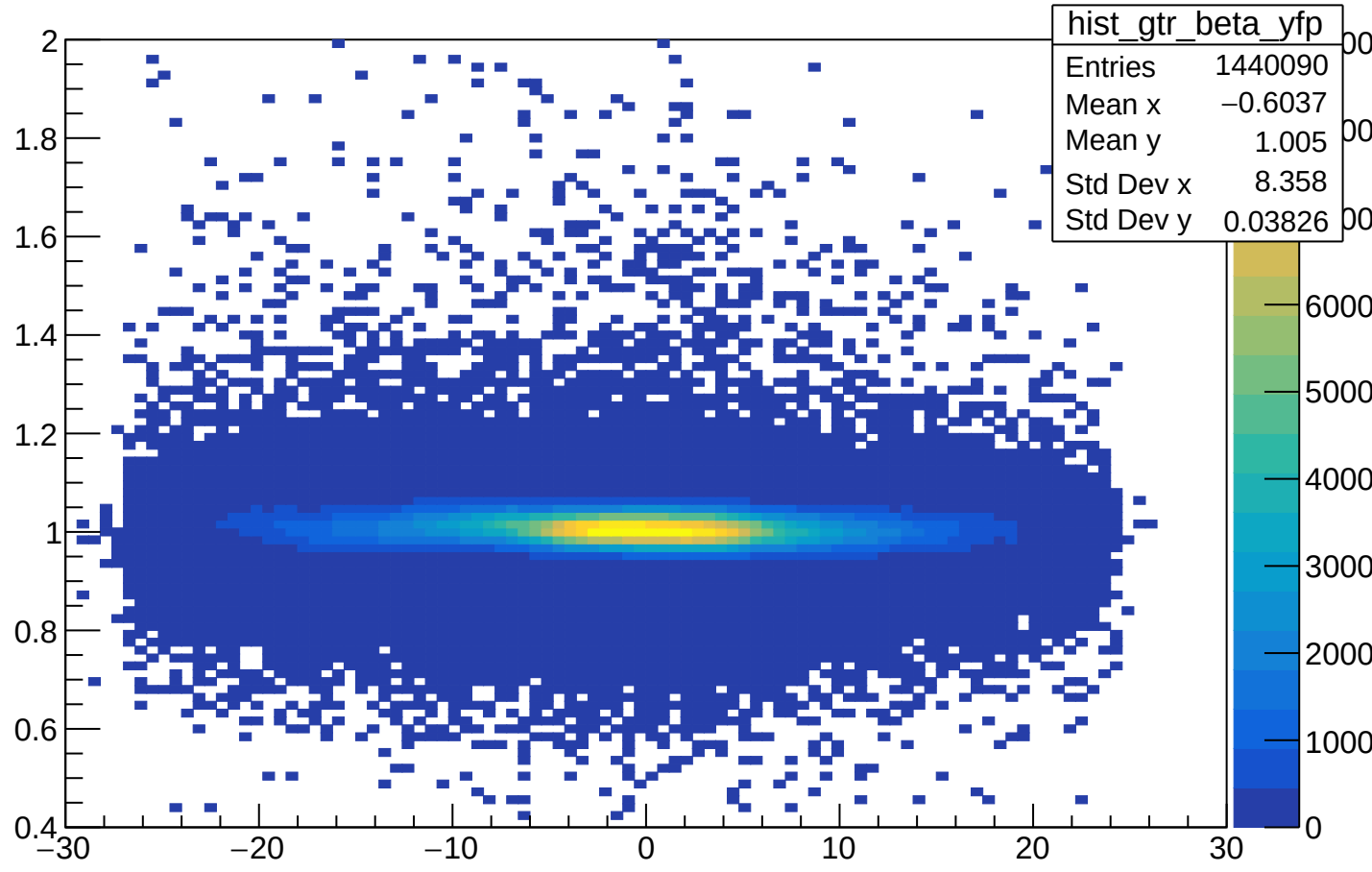

etottracknorm
hist_etottracknorm
Entries 1440090
Mean 0.6722
Std Dev 0.3986
x = 0.7
$10^6$
$10^5$
$10^4$
$10^3$
$10^2$
10
1
0
1
2
3
4
5
6
7
8

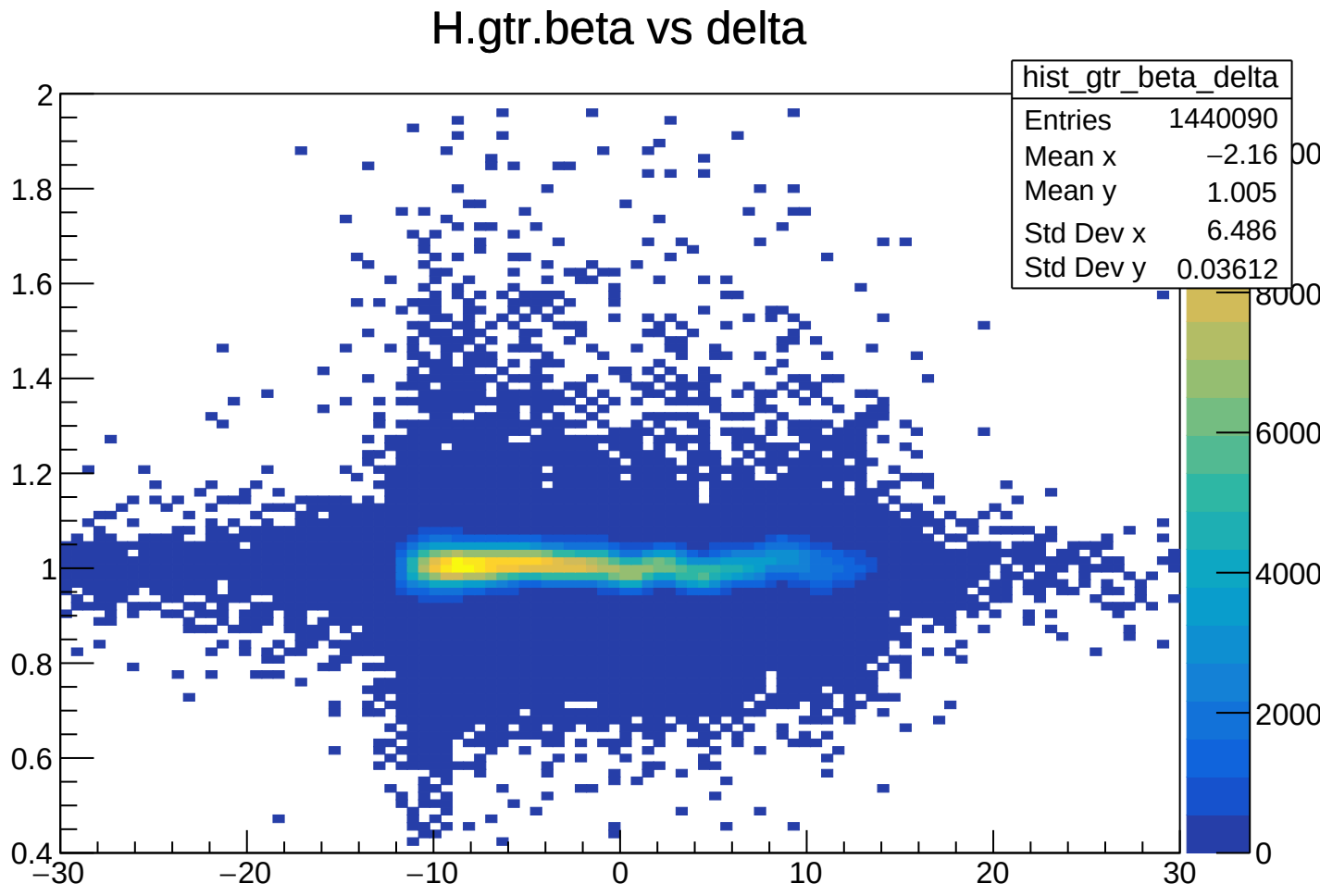

npeSum
x = 0.7
hist_npeSum
Entries 1440090
Mean 8.712
Std Dev 5.942
$10^5$
$10^4$
$10^3$
$10^2$
10
1
0
10
20
30
40
50
60
70

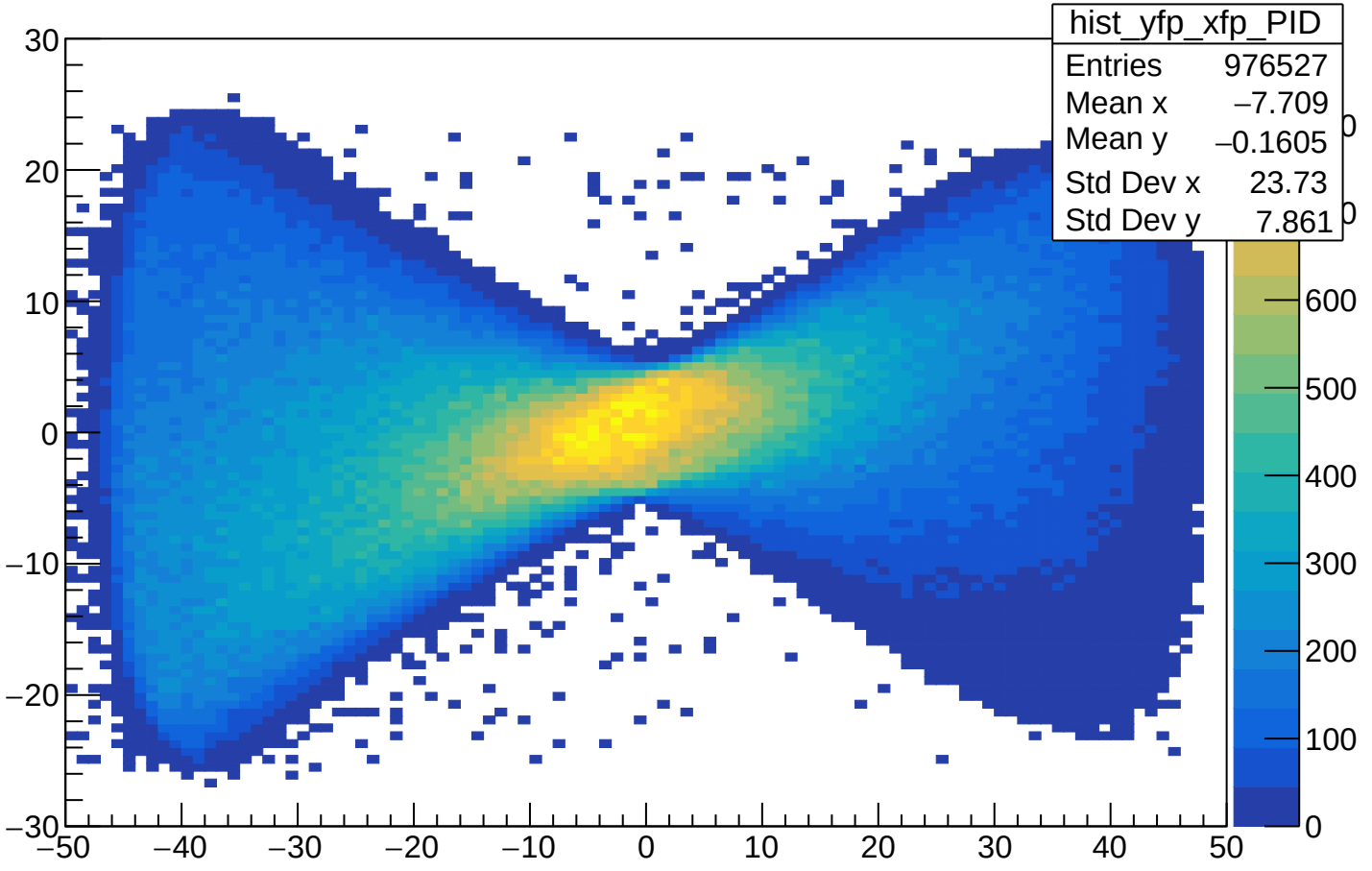

delta
hist_delta
Entries 1440090
Mean −2.176
Std Dev 6.494
x = -8
x = 8
10^4
10^3
10^2
10
−30
−20
−10
0
10
20
30

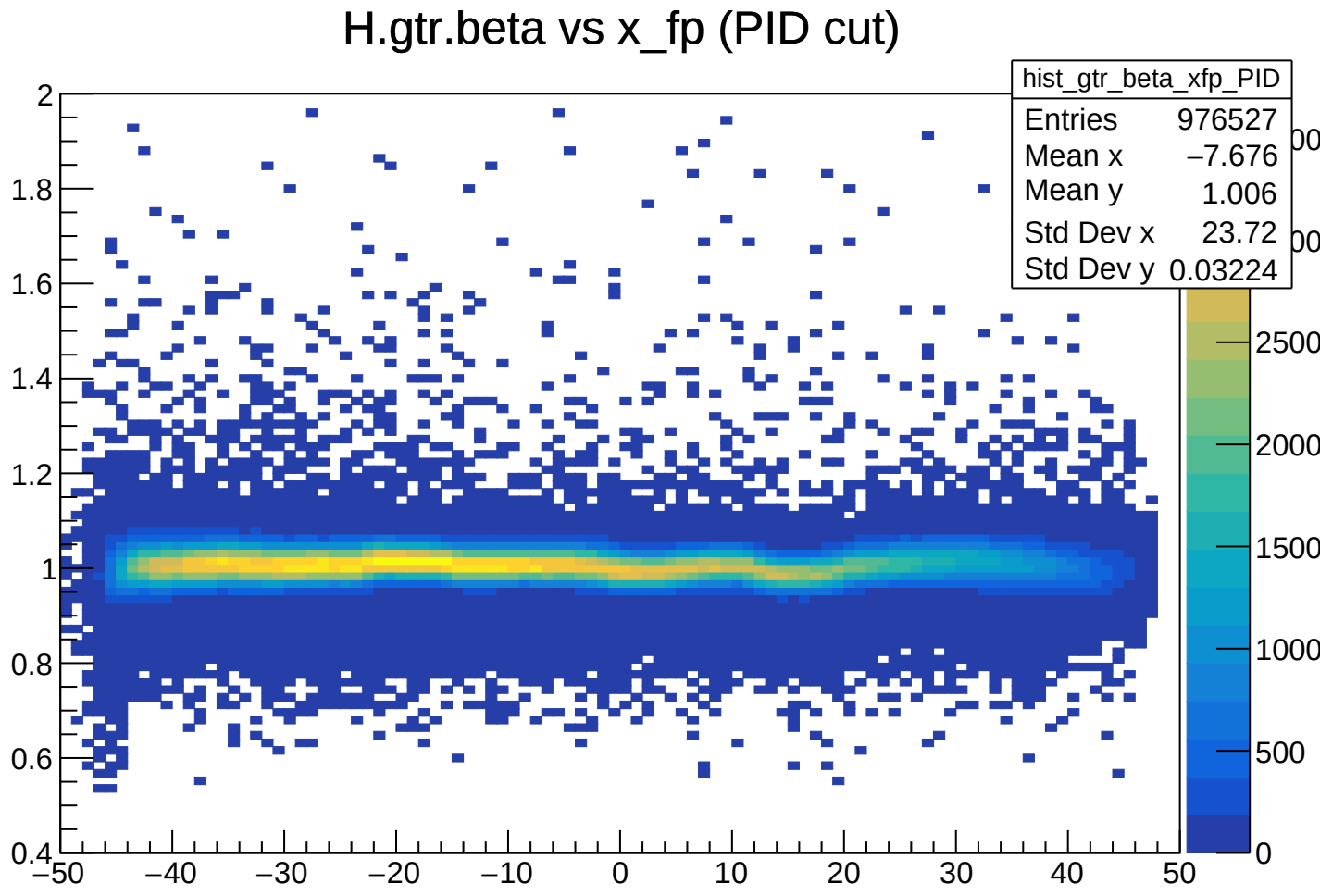

focal plane
hist_yfp_xfp
Entries 1440090
Mean x −9.554
Mean y −0.6161
Std Dev x 23.91
Std Dev y 8.416
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
700
600
500
400
300
200
100
0

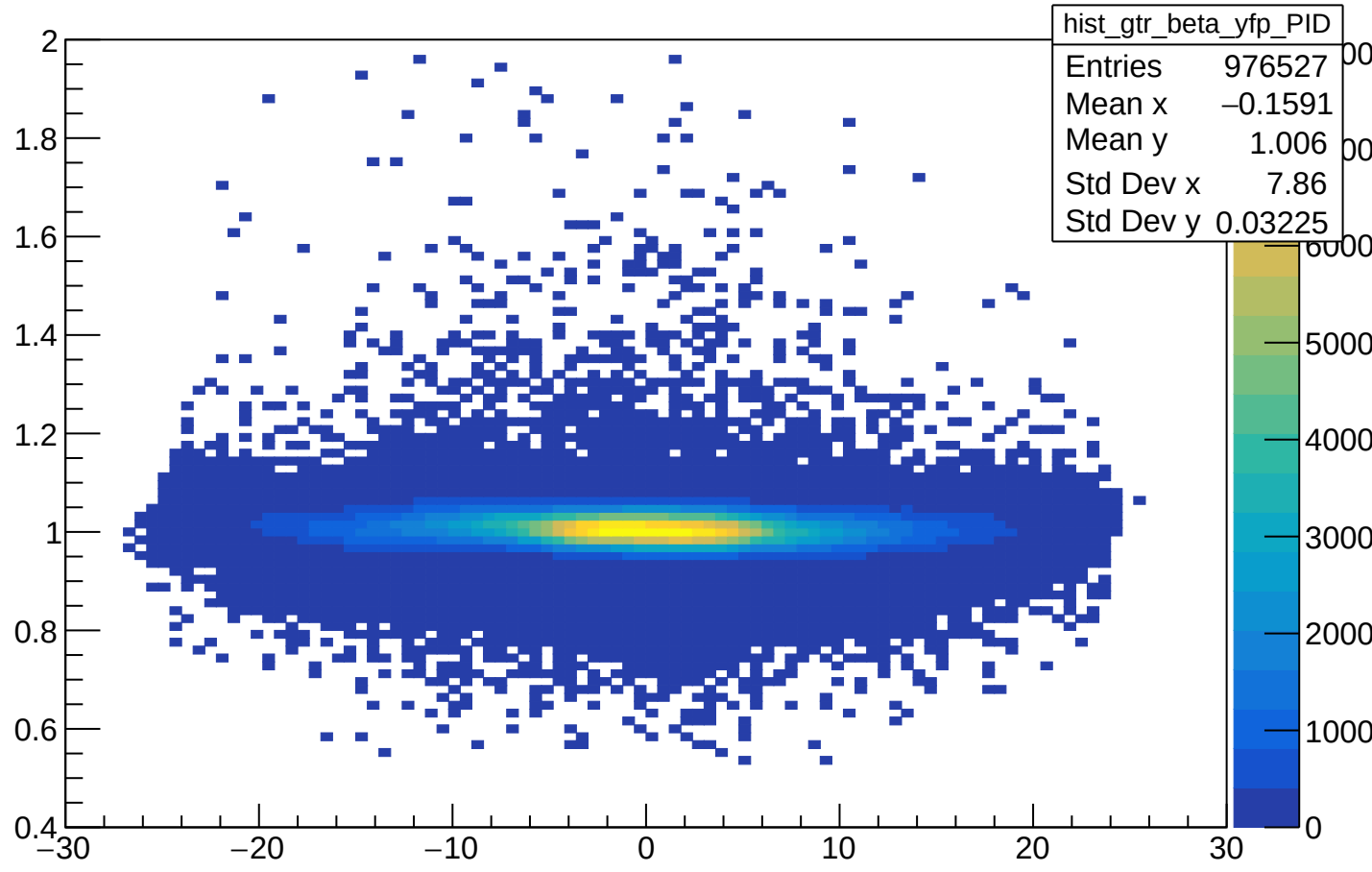

H.gtr.beta vs x_fp
hist_gtr_beta_xfp
Entries 1440090
Mean x −9.388
Mean y 1.005
Std Dev x 23.87
Std Dev y 0.03784
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−50
−40
−30
−20
−10
0
10
20
30
40
50
3000
2500
2000
1500
1000
500
0

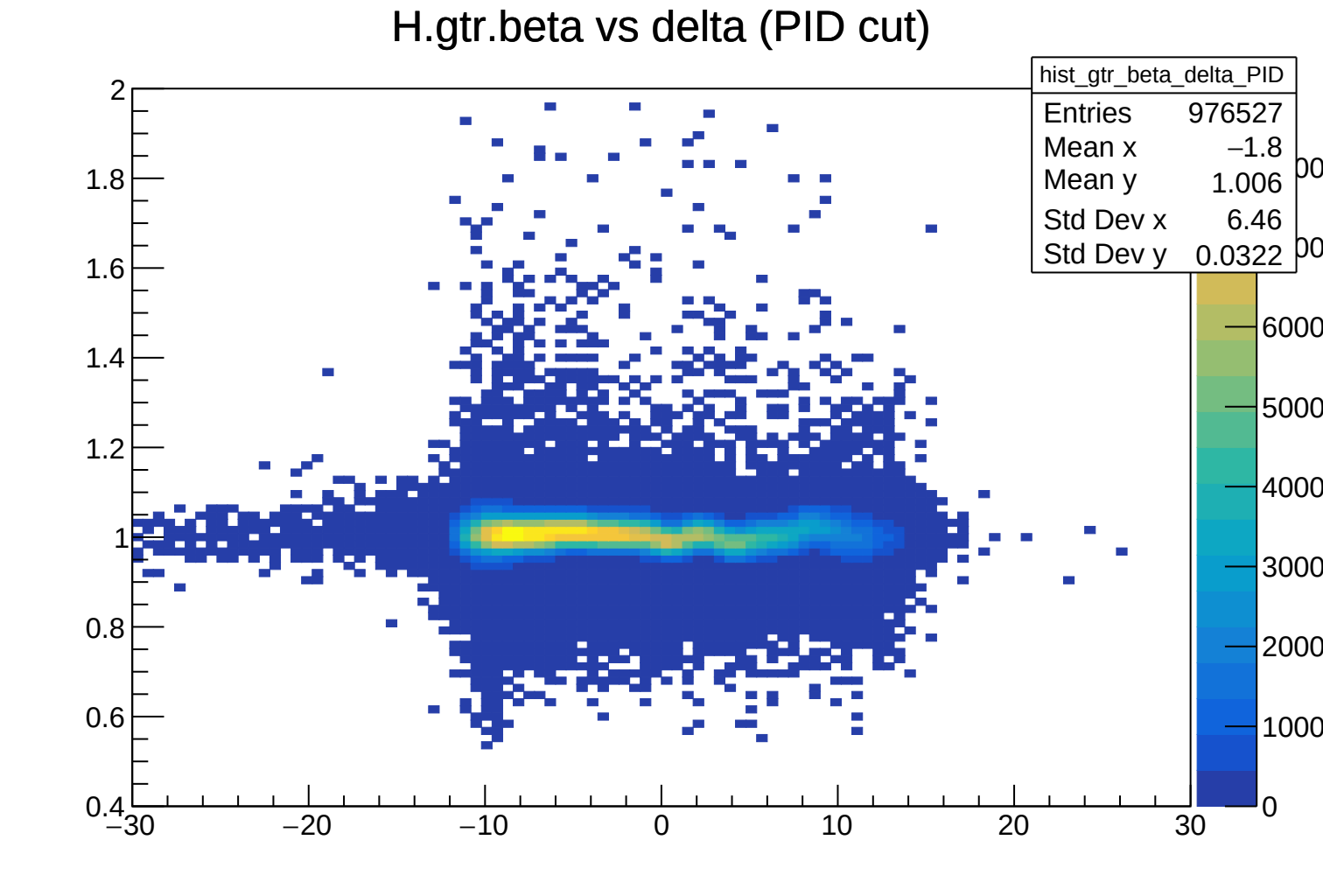

H.gtr.beta vs y_fp
hist_gtr_beta_yfp
Entries 1440090
Mean x −0.6037
Mean y 1.005
Std Dev x 8.358
Std Dev y 0.03826
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
6000
5000
4000
3000
2000
1000
0

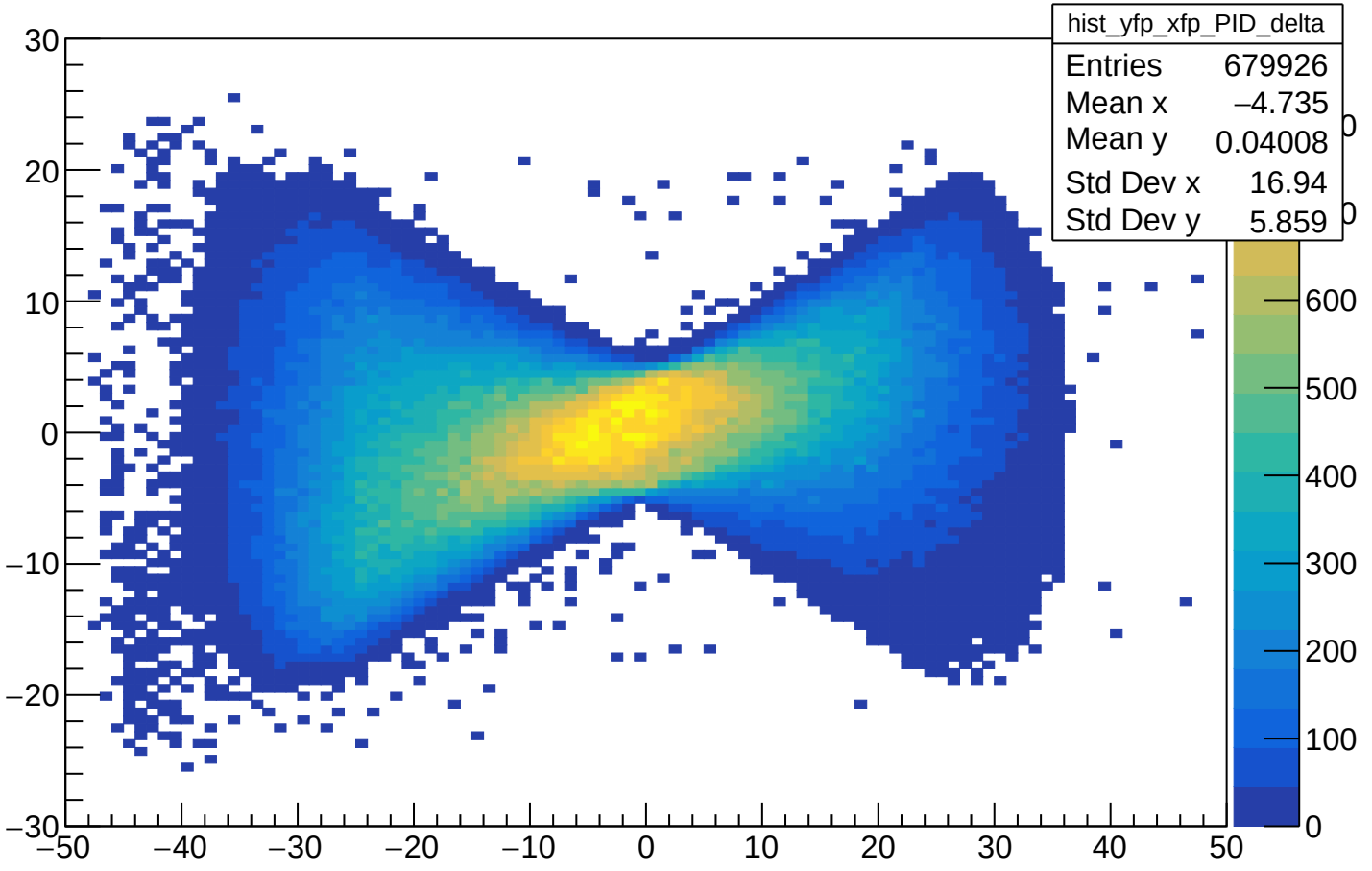

H.gtr.beta vs delta
hist_gtr_beta_delta
Entries 1440090
Mean x −2.16
Mean y 1.005
Std Dev x 6.486
Std Dev y 0.03612
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
8000
6000
4000
2000
0

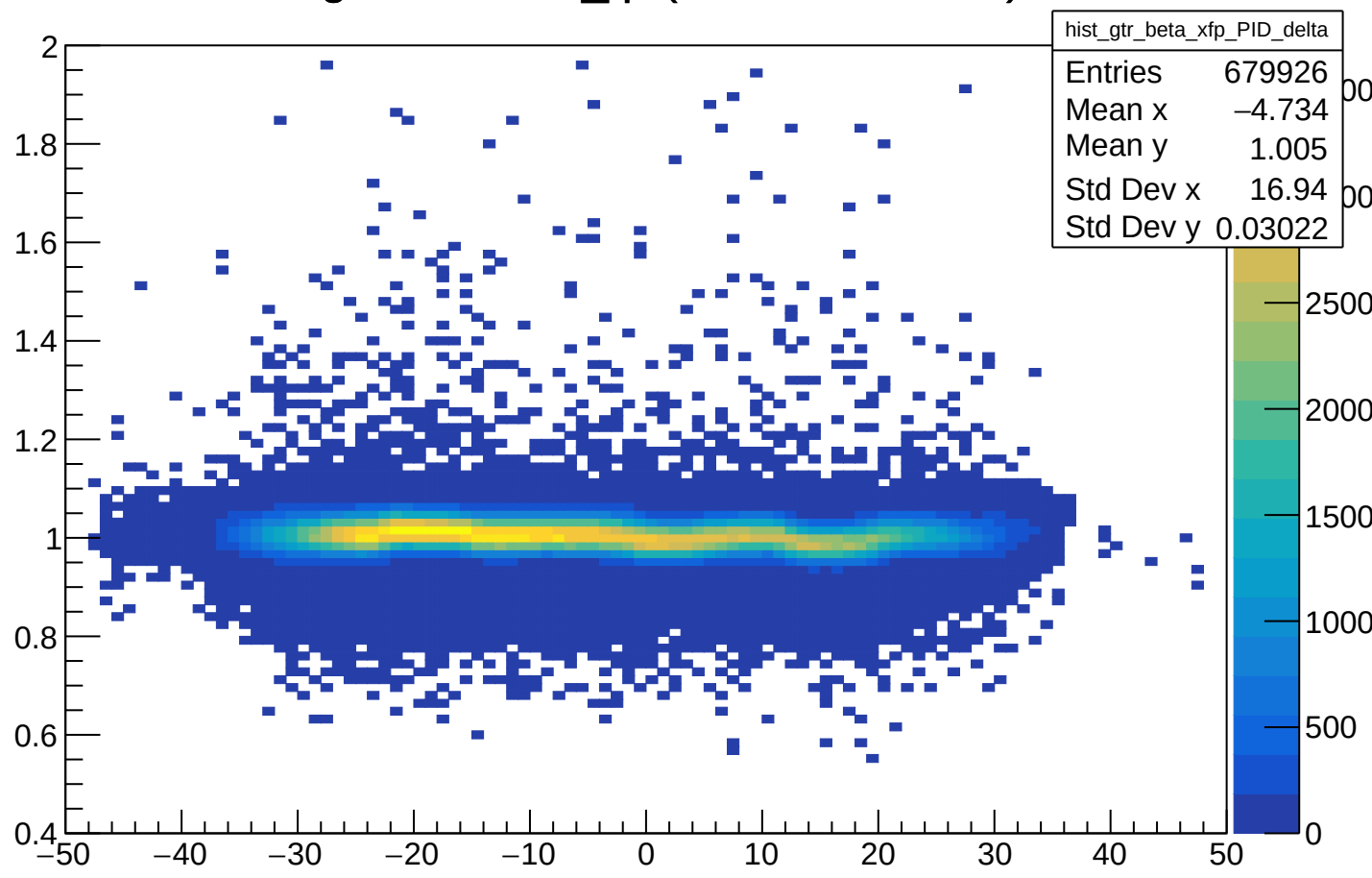

focal plane (PID cut)
hist_yfp_xfp_PID
Entries 976527
Mean x −7.709
Mean y −0.1605
Std Dev x 23.73
Std Dev y 7.861
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
600
500
400
300
200
100
0

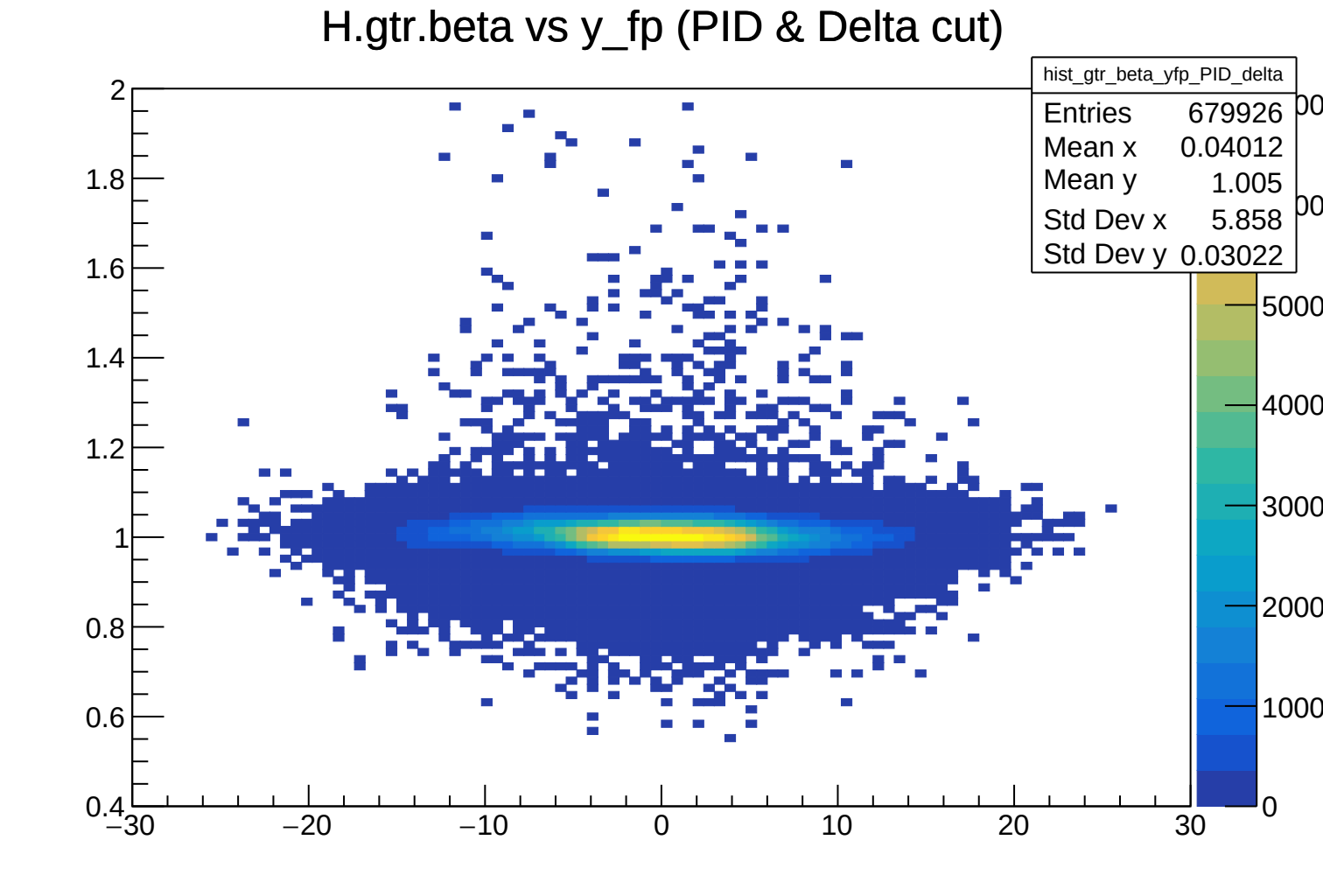

H.gtr.beta vs x_fp (PID cut)
hist_gtr_beta_xfp_PID
Entries 976527
Mean x −7.676
Mean y 1.006
Std Dev x 23.72
Std Dev y 0.03224
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−50
−40
−30
−20
−10
0
10
20
30
40
50
2500
2000
1500
1000
500
0

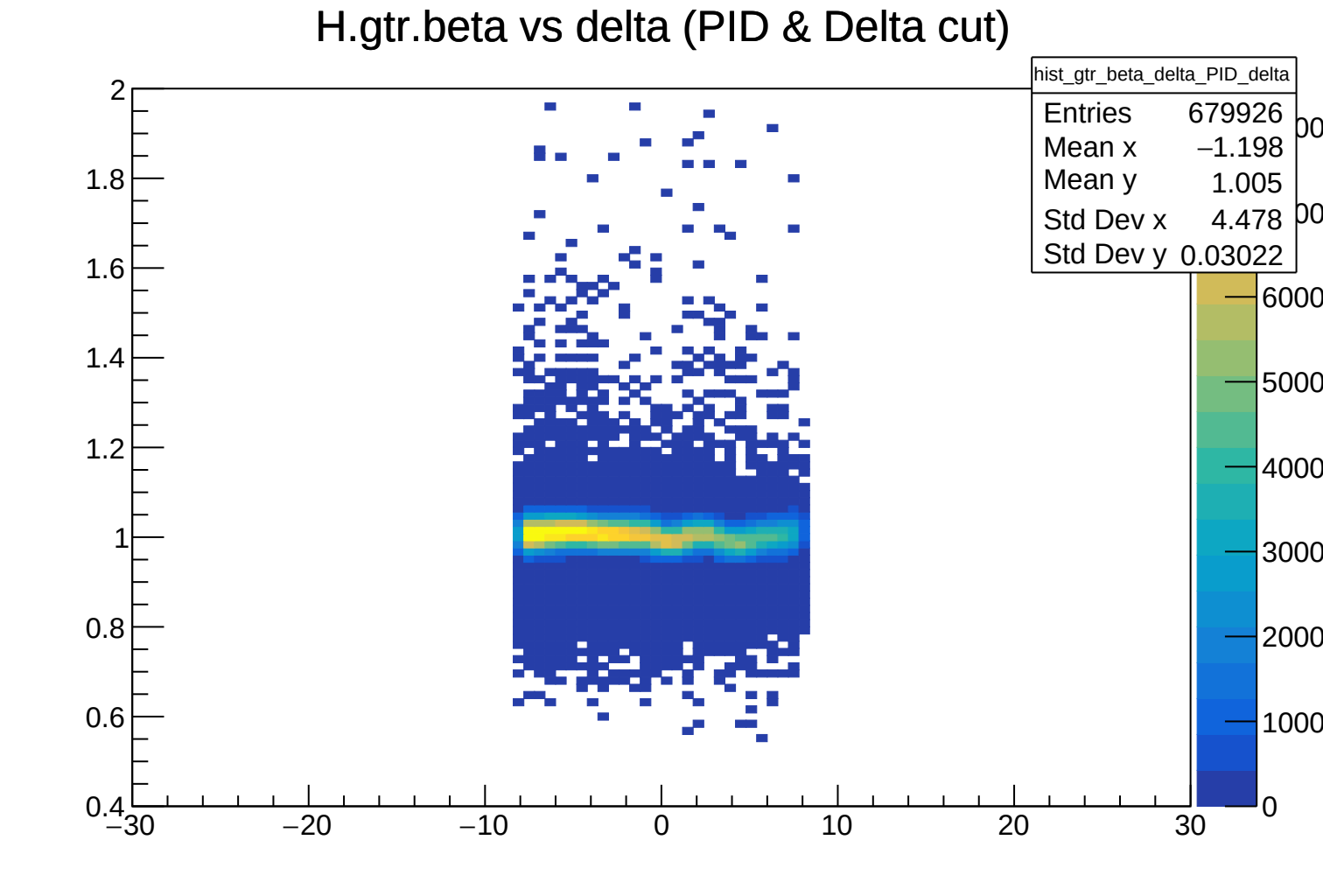

H.gtr.beta vs y_fp (PID cut)
hist_gtr_beta_yfp_PID
Entries 976527
Mean x –0.1591
Mean y 1.006
Std Dev x 7.86
Std Dev y 0.03225
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
–30
–20
–10
0
10
20
30
6000
5000
4000
3000
2000
1000
0


H.gtr.beta vs delta (PID cut)
hist_gtr_beta_delta_PID
Entries 976527
Mean x −1.8
Mean y 1.006
Std Dev x 6.46
Std Dev y 0.0322
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
6000
5000
4000
3000
2000
1000
0


focal plane (PID & Delta cut)
hist_yfp_xfp_PID_delta
Entries 679926
Mean x –4.735
Mean y 0.04008
Std Dev x 16.94
Std Dev y 5.859
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
600
500
400
300
200
100
0


H.gtr.beta vs x_fp (PID & Delta cut)
hist_gtr_beta_xfp_PID_delta
Entries 679926
Mean x −4.734
Mean y 1.005
Std Dev x 16.94
Std Dev y 0.03022
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
2500
2000
1500
1000
500
0


H.gtr.beta vs y_fp (PID & Delta cut)
hist_gtr_beta_yfp_PID_delta
Entries 679926
Mean x 0.04012
Mean y 1.005
Std Dev x 5.858
Std Dev y 0.03022
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 (PID & Delta cut)
hist_gtr_beta_delta_PID_delta
Entries 679926
Mean x −1.198
Mean y 1.005
Std Dev x 4.478
Std Dev y 0.03022
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
6000
5000
4000
3000
2000
1000
0