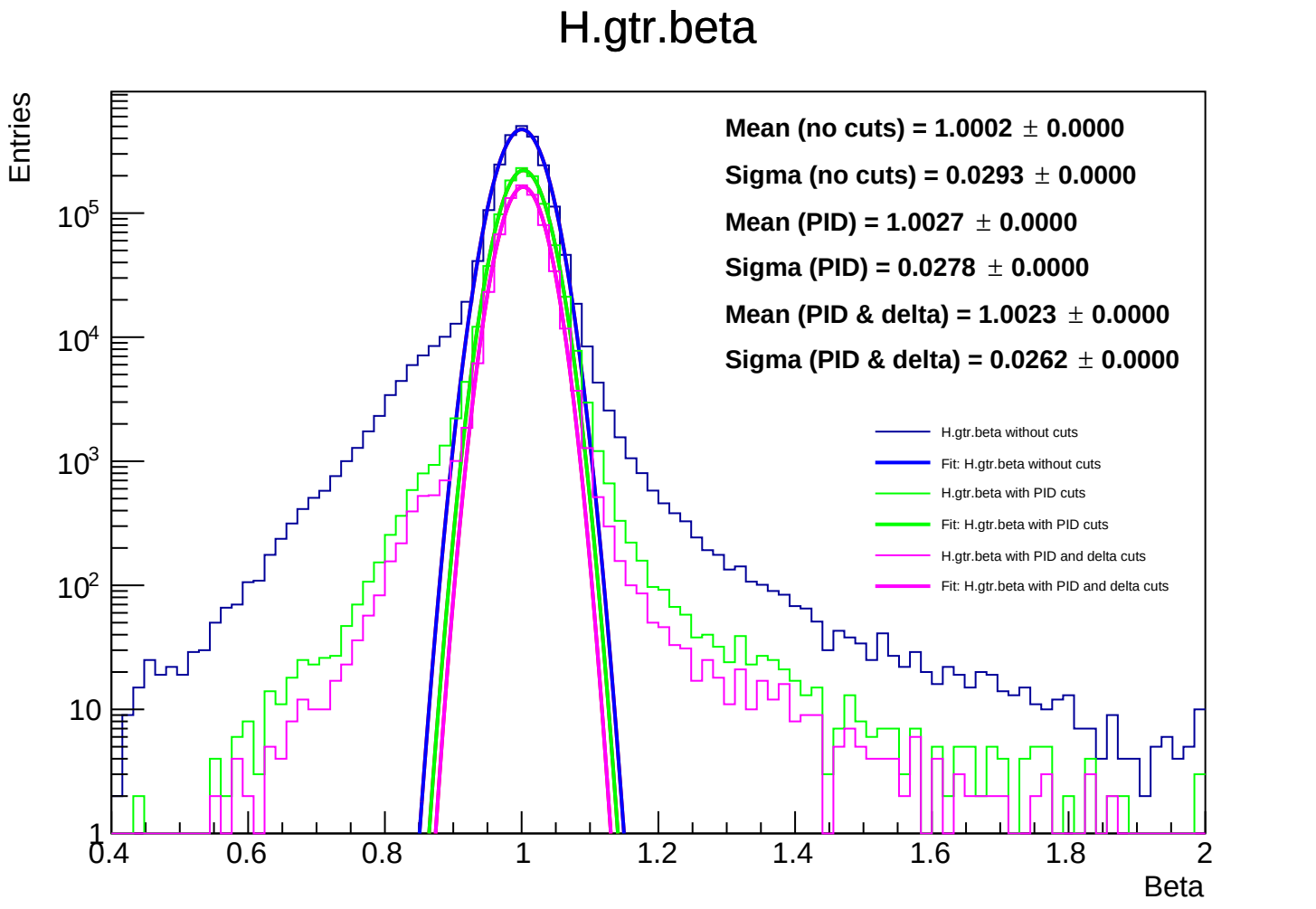
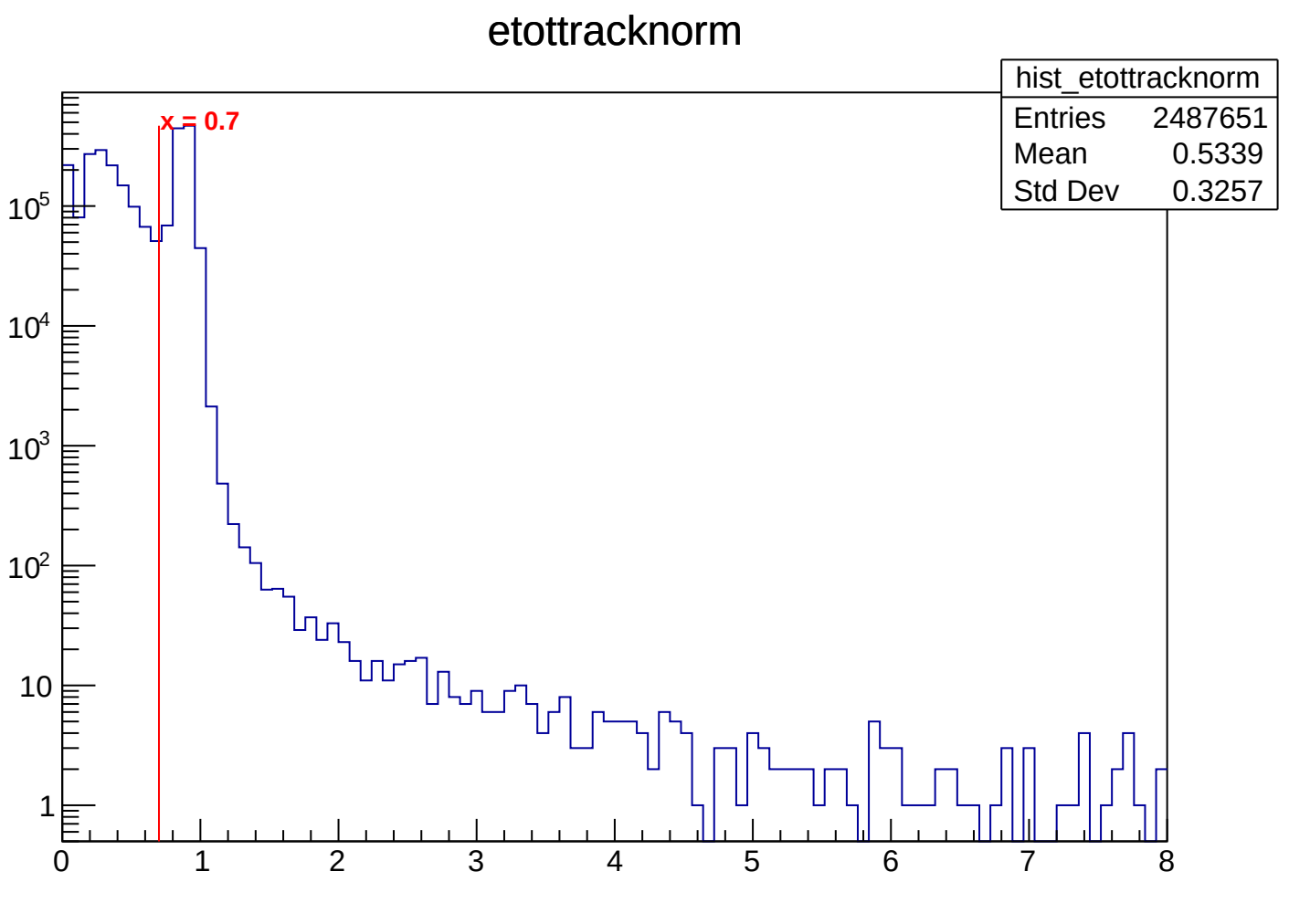
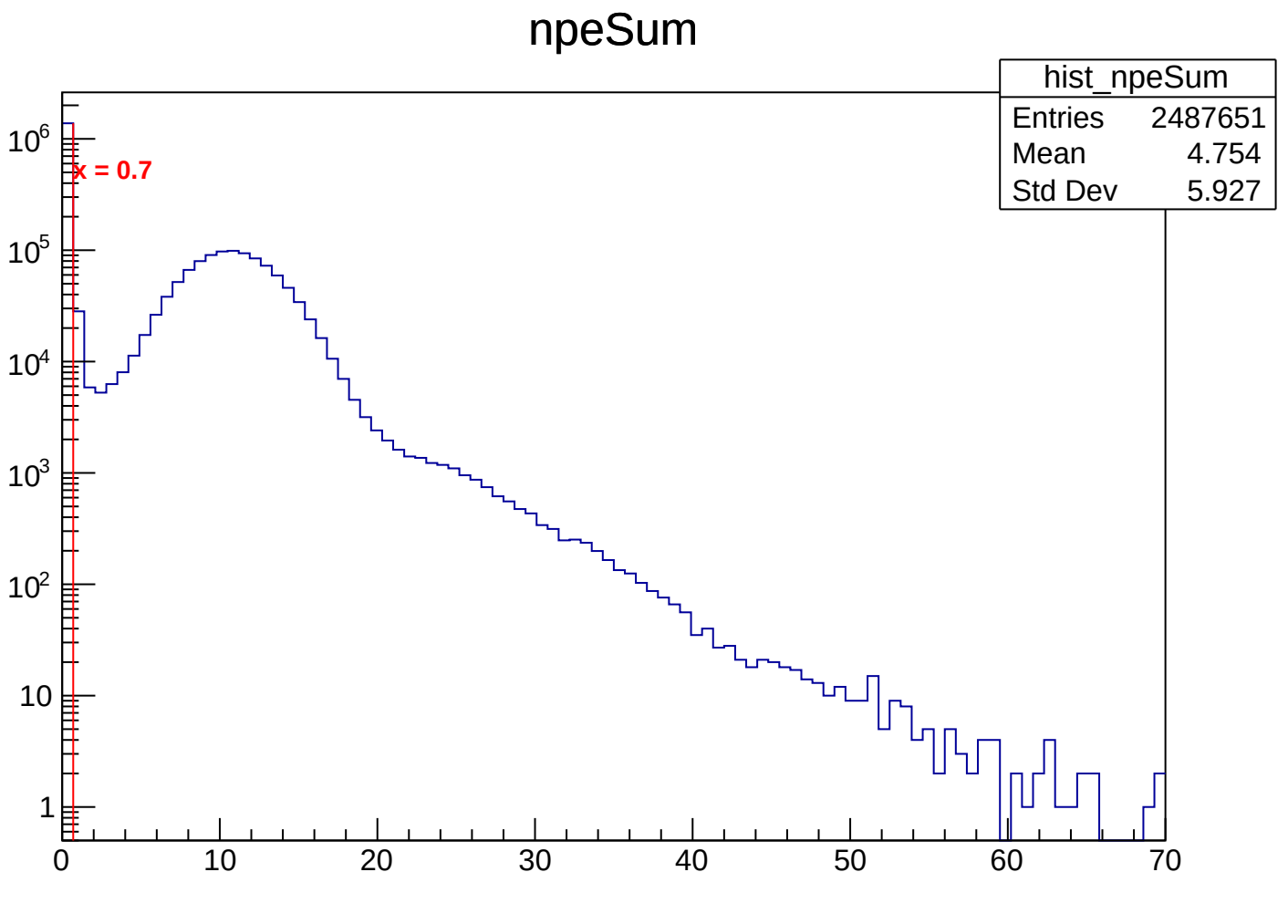
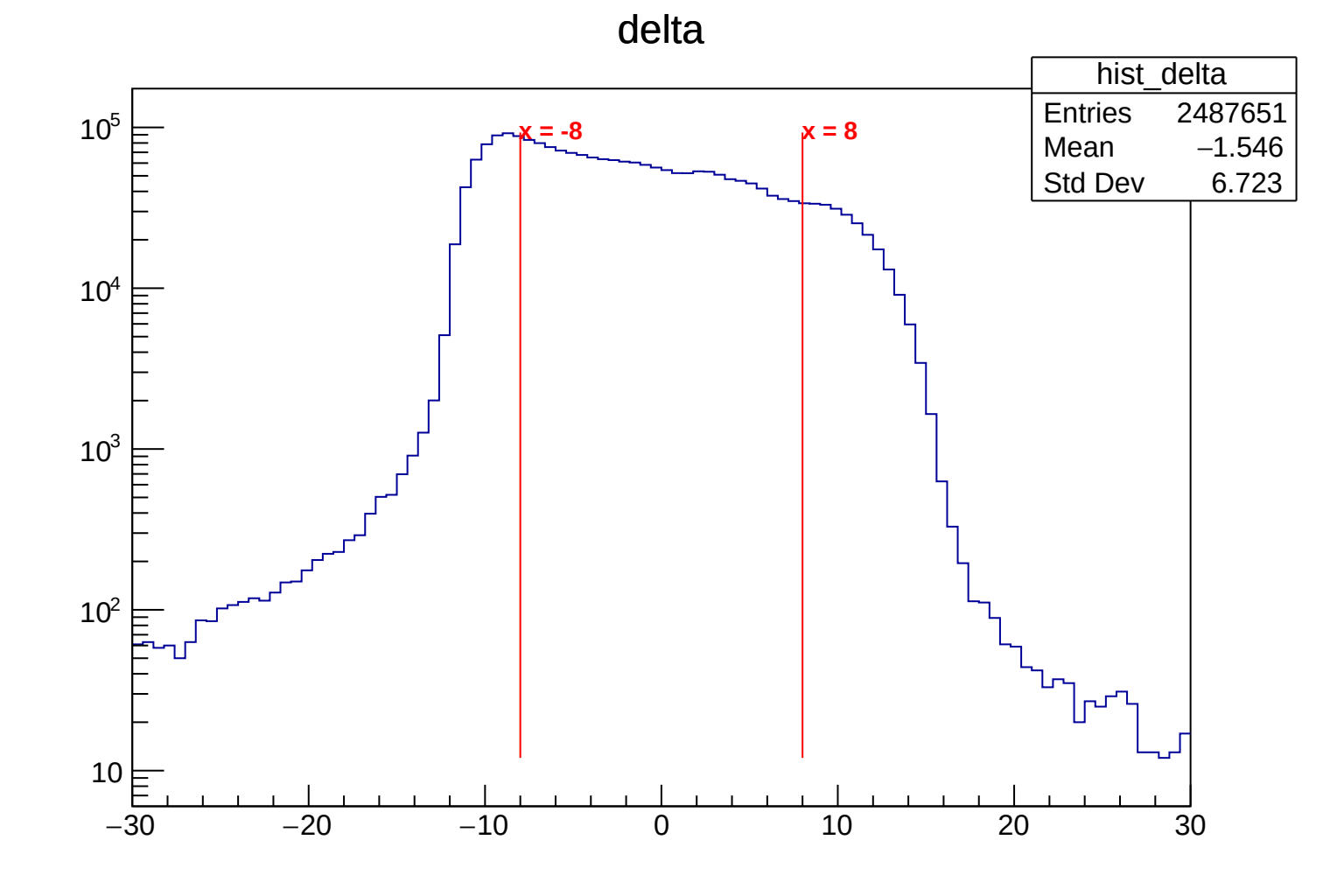
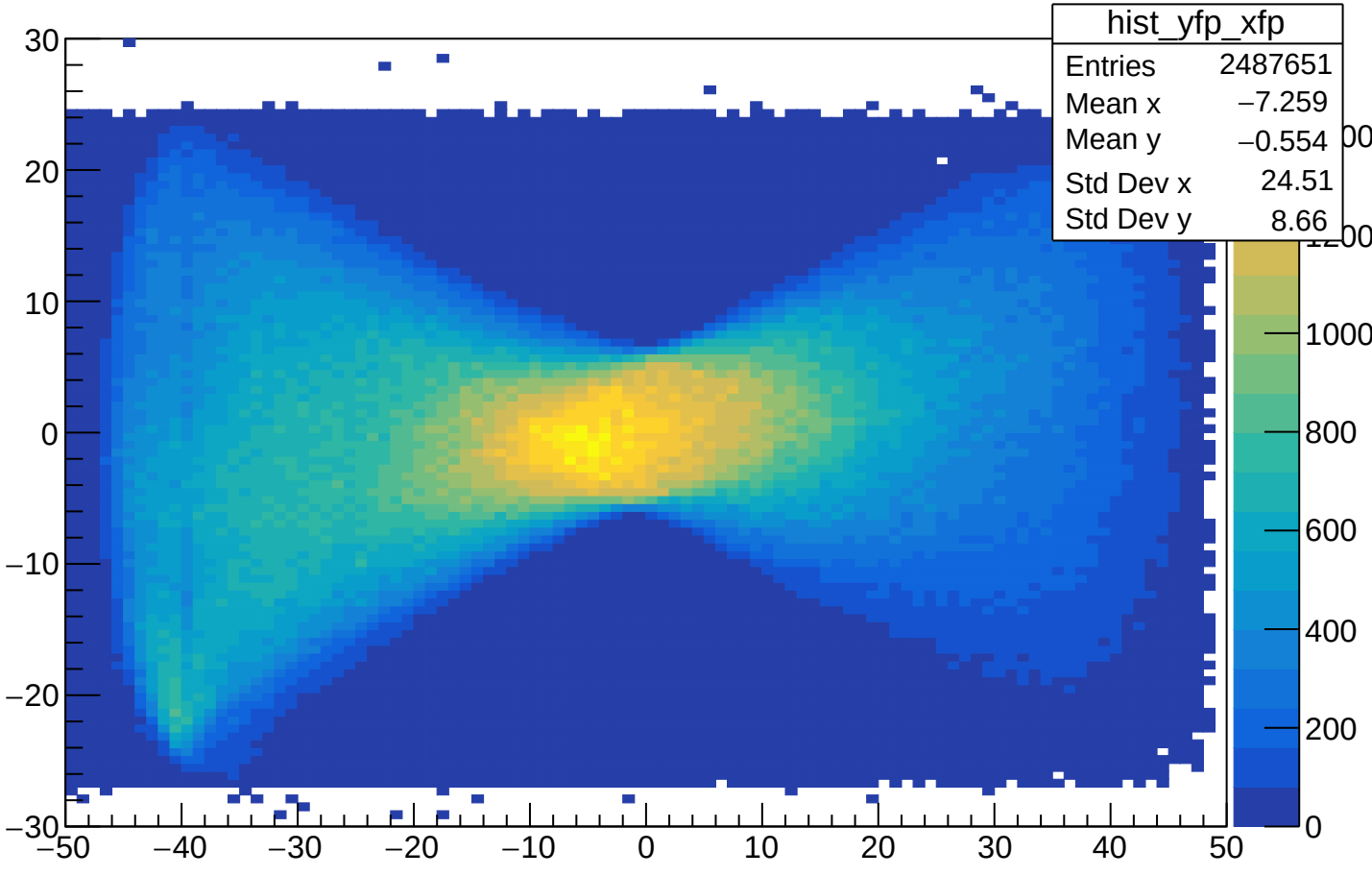
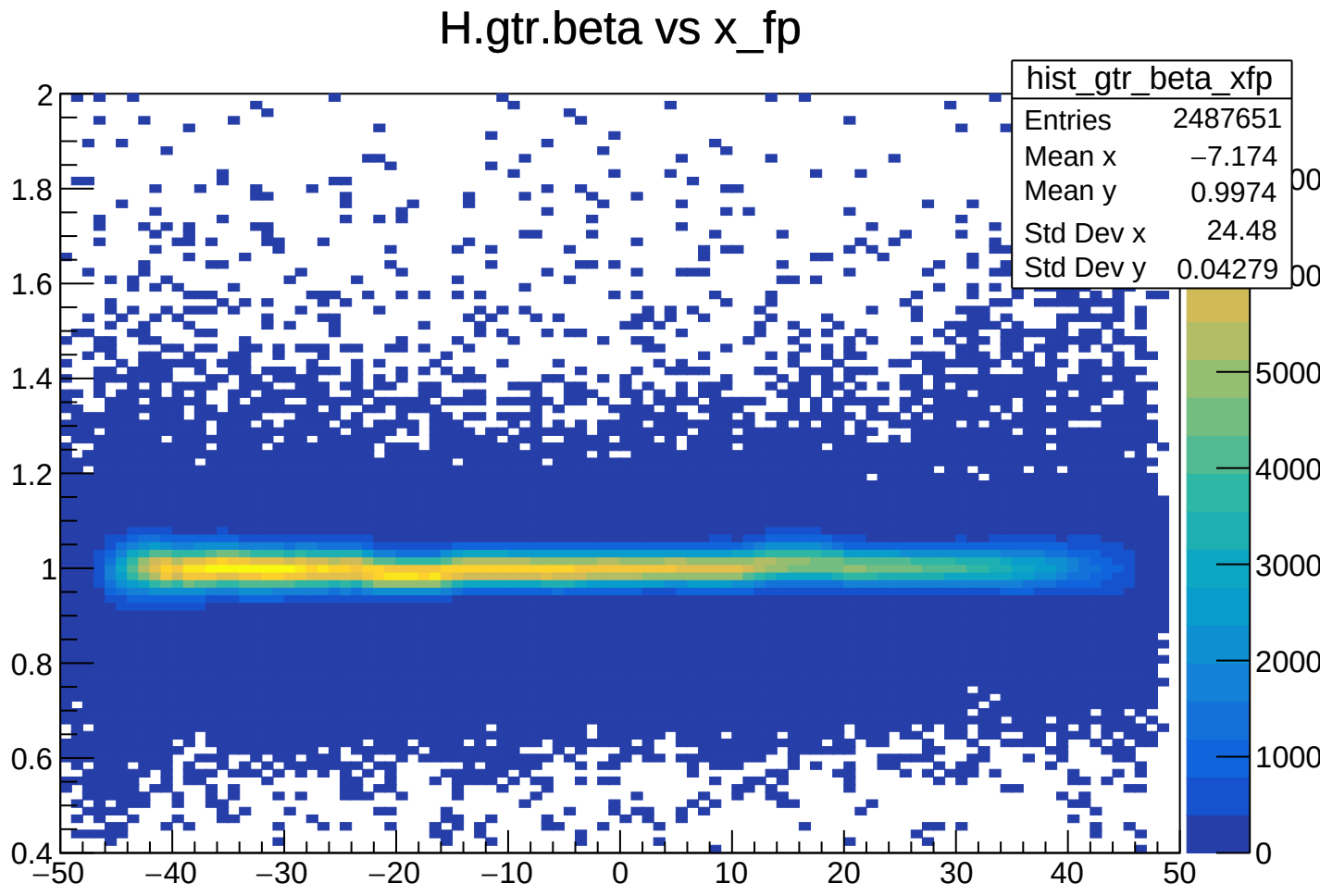

H.gtr.beta
Entries
Beta
Mean (no cuts) = 1.0002 ± 0.0000
Sigma (no cuts) = 0.0293 ± 0.0000
Mean (PID) = 1.0027 ± 0.0000
Sigma (PID) = 0.0278 ± 0.0000
Mean (PID & delta) = 1.0023 ± 0.0000
Sigma (PID & delta) = 0.0262 ± 0.0000
H.gtr.beta without cuts
Fit: H.gtr.beta without cuts
H.gtr.beta with PID cuts
Fit: H.gtr.beta with PID cuts
H.gtr.beta with PID and delta cuts
Fit: H.gtr.beta with PID and delta cuts
10^5
10^4
10^3
10^2
10
1
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2

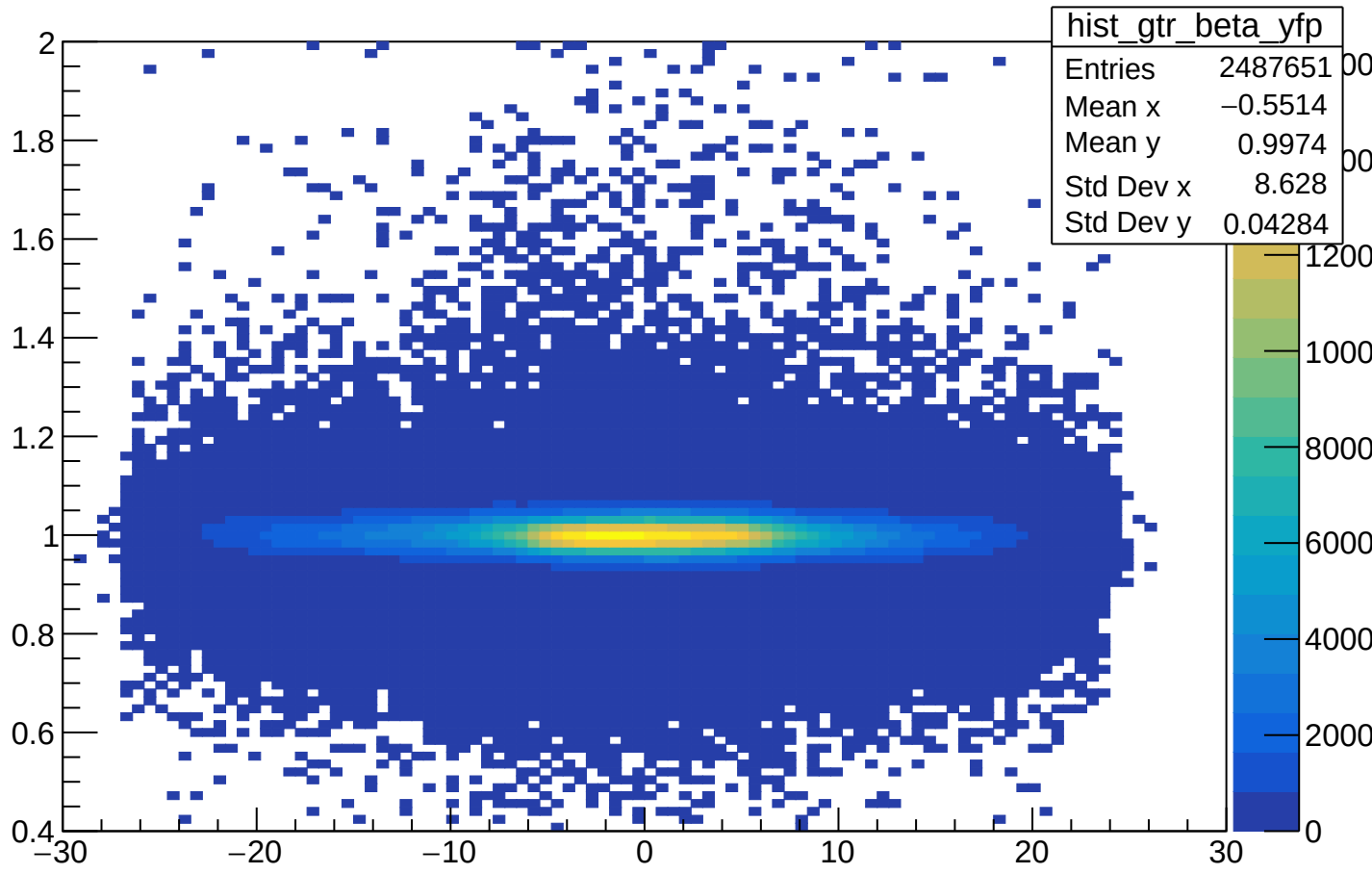

etottracknorm
hist_etottracknorm
Entries 2487651
Mean 0.5339
Std Dev 0.3257
x = 0.7
10^5
10^4
10^3
10^2
10
1
0
1
2
3
4
5
6
7
8

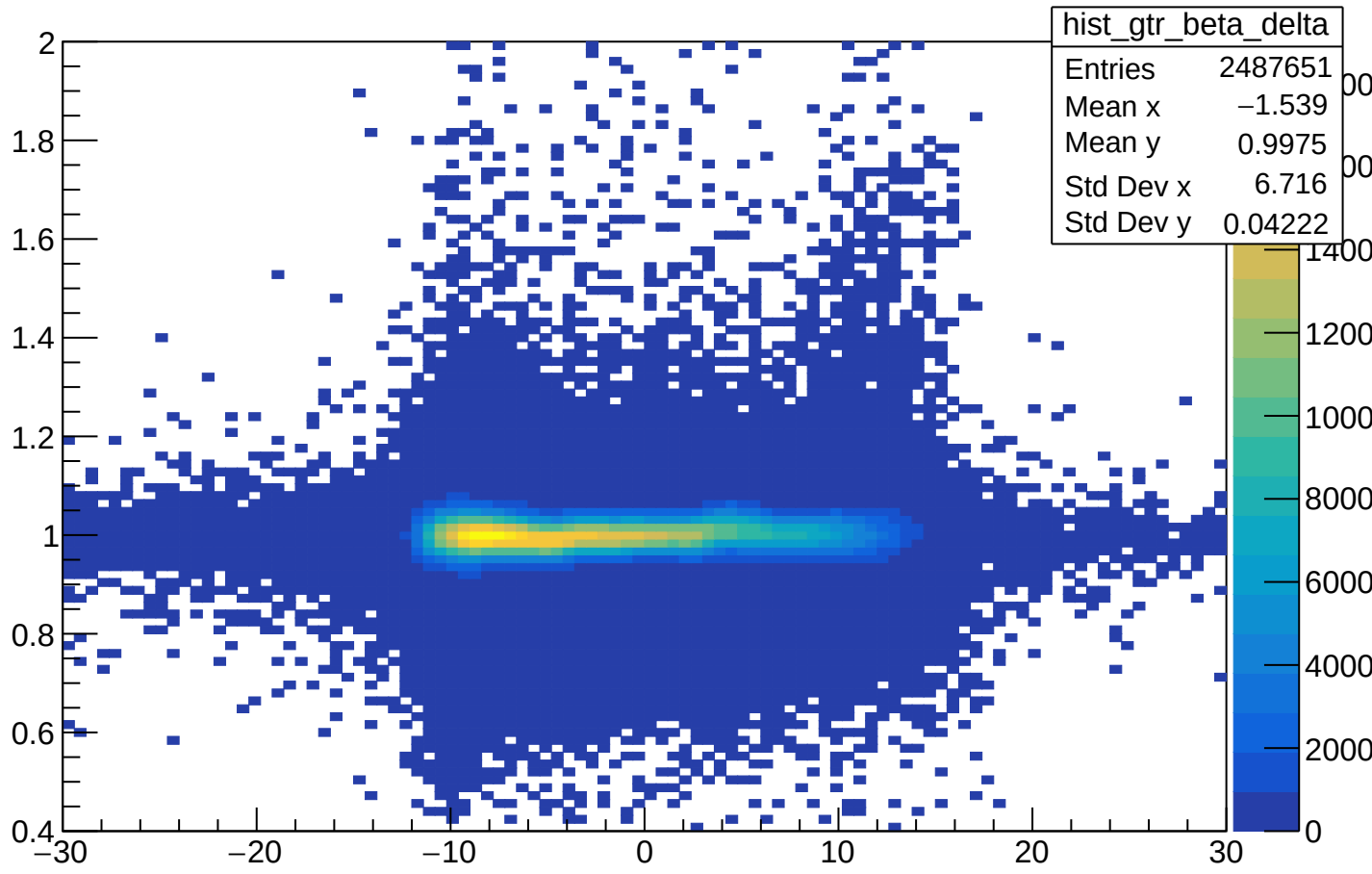

npeSum
hist_npeSum
Entries 2487651
Mean 4.754
Std Dev 5.927
x = 0.7
10^6
10^5
10^4
10^3
10^2
10
1
0
10
20
30
40
50
60
70

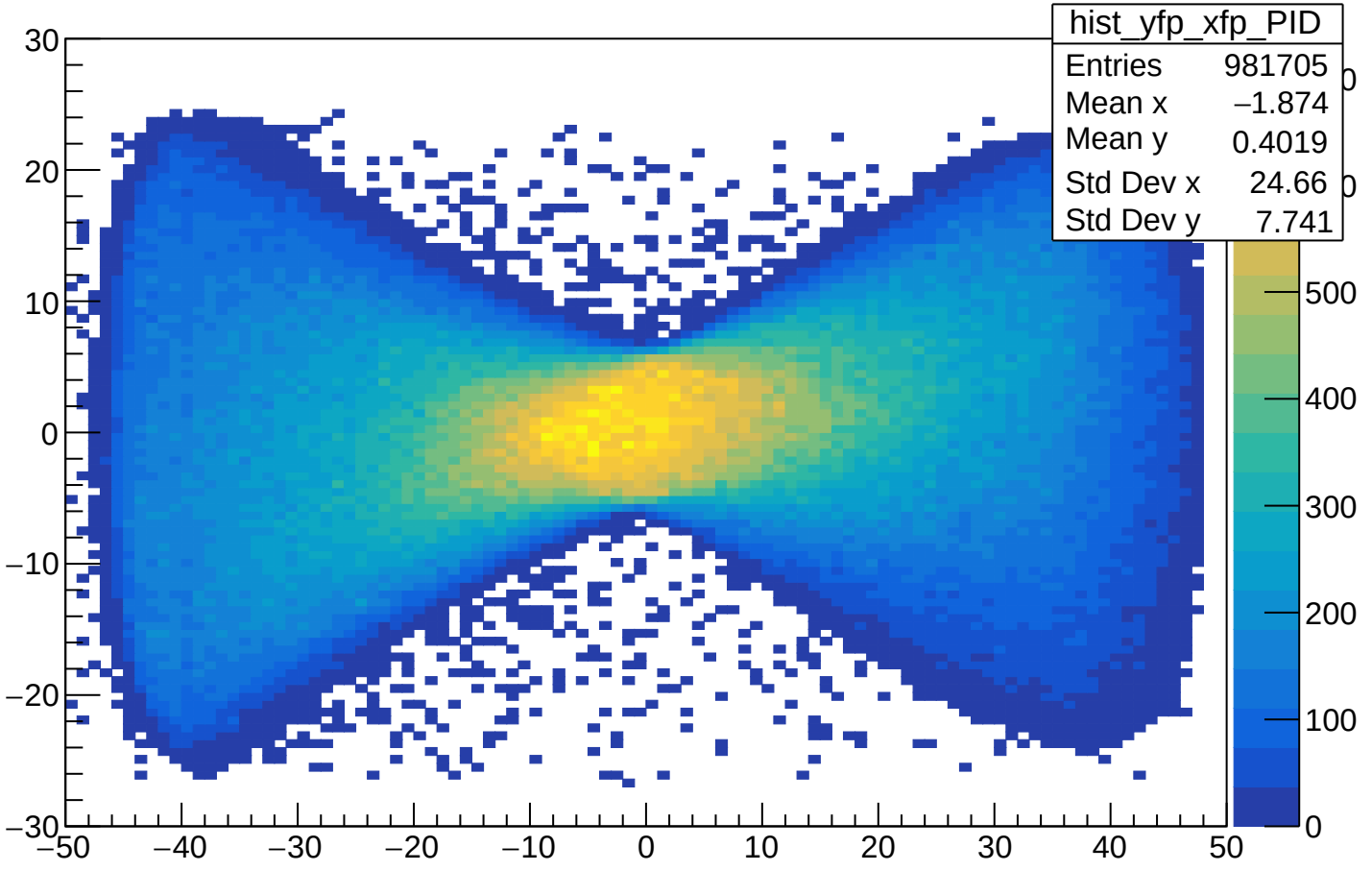

delta
hist_delta
Entries 2487651
Mean −1.546
Std Dev 6.723
x = -8
x = 8
10^5
10^4
10^3
10^2
10
−30
−20
−10
0
10
20
30

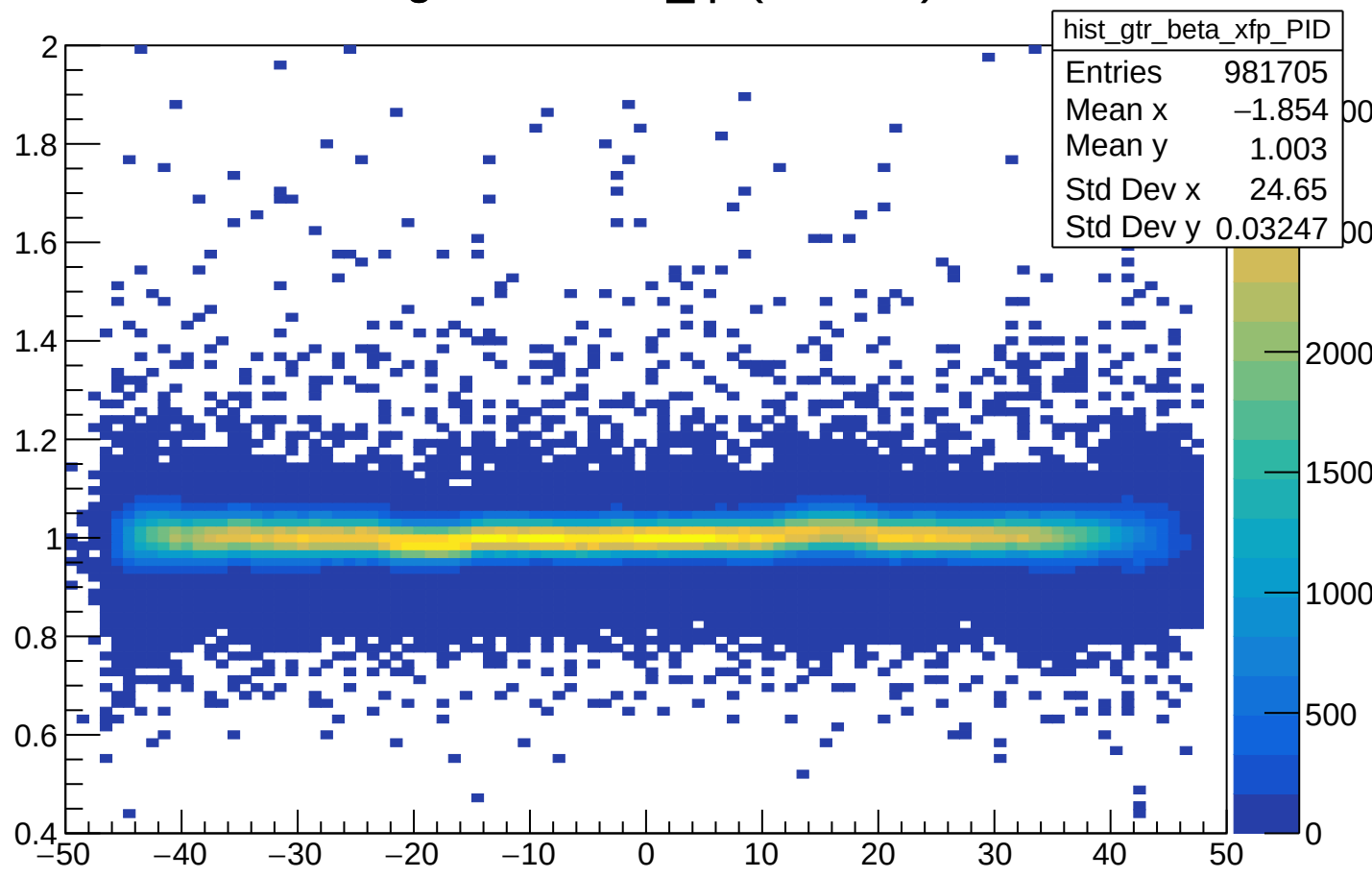

focal plane
hist_yfp_xfp
Entries 2487651
Mean x −7.259
Mean y −0.554
Std Dev x 24.51
Std Dev y 8.66
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
1000
800
600
400
200
0

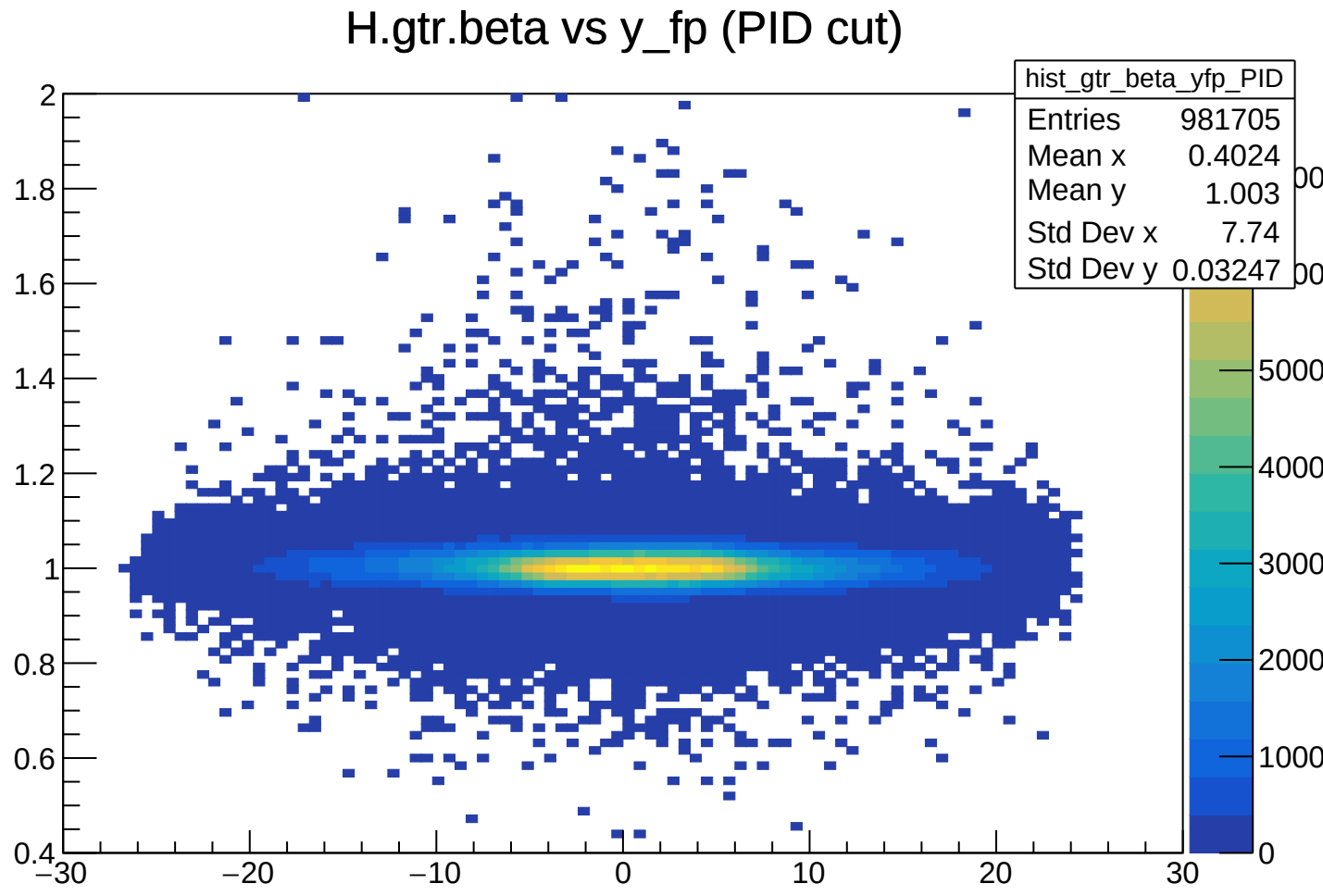

H.gtr.beta vs x_fp
hist_gtr_beta_xfp
Entries 2487651
Mean x −7.174
Mean y 0.9974
Std Dev x 24.48
Std Dev y 0.04279
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−50
−40
−30
−20
−10
0
10
20
30
40
50
5000
4000
3000
2000
1000
0

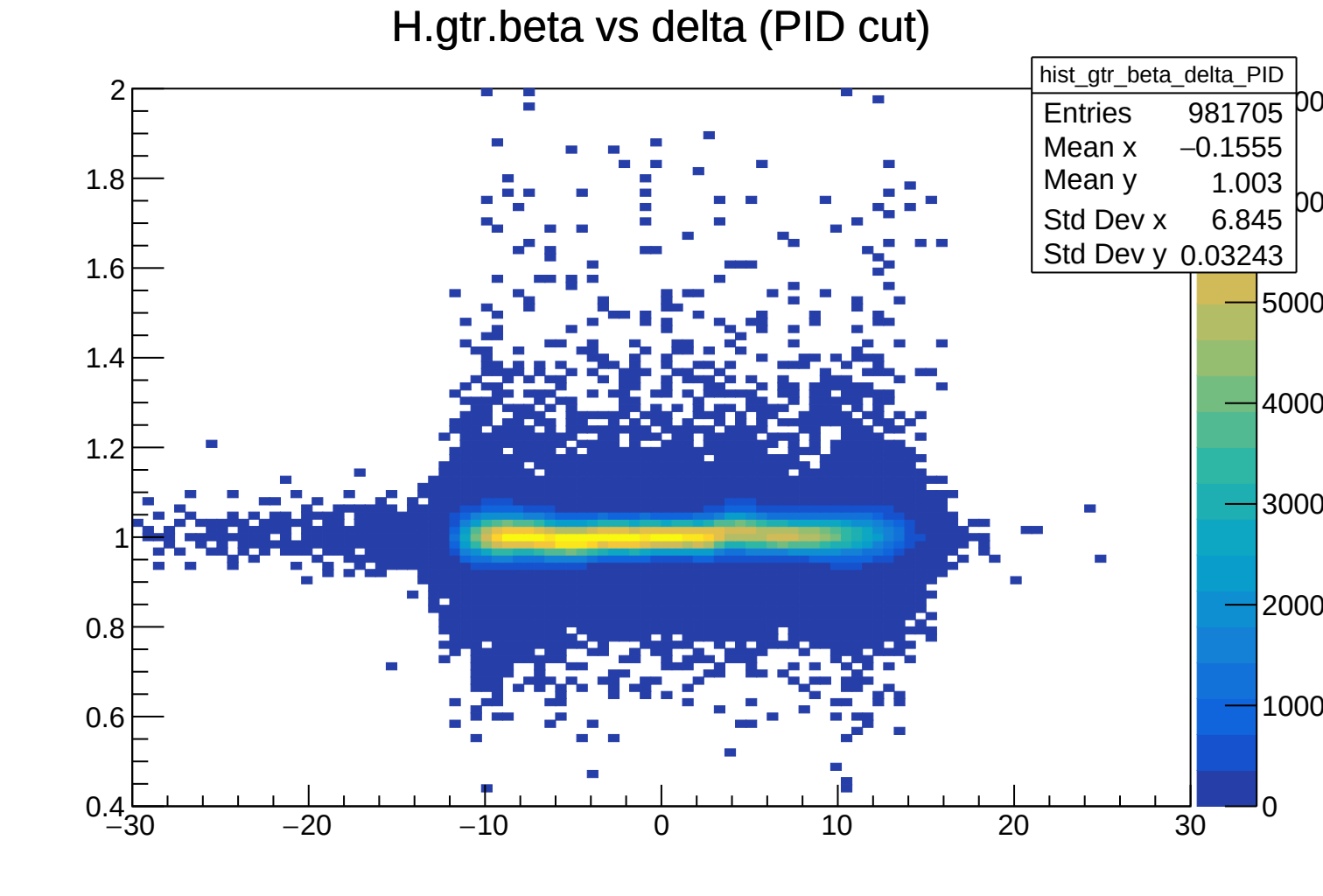

H.gtr.beta vs y_fp
hist_gtr_beta_yfp
Entries 2487651
Mean x −0.5514
Mean y 0.9974
Std Dev x 8.628
Std Dev y 0.04284
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
1200
1000
8000
6000
4000
2000
0

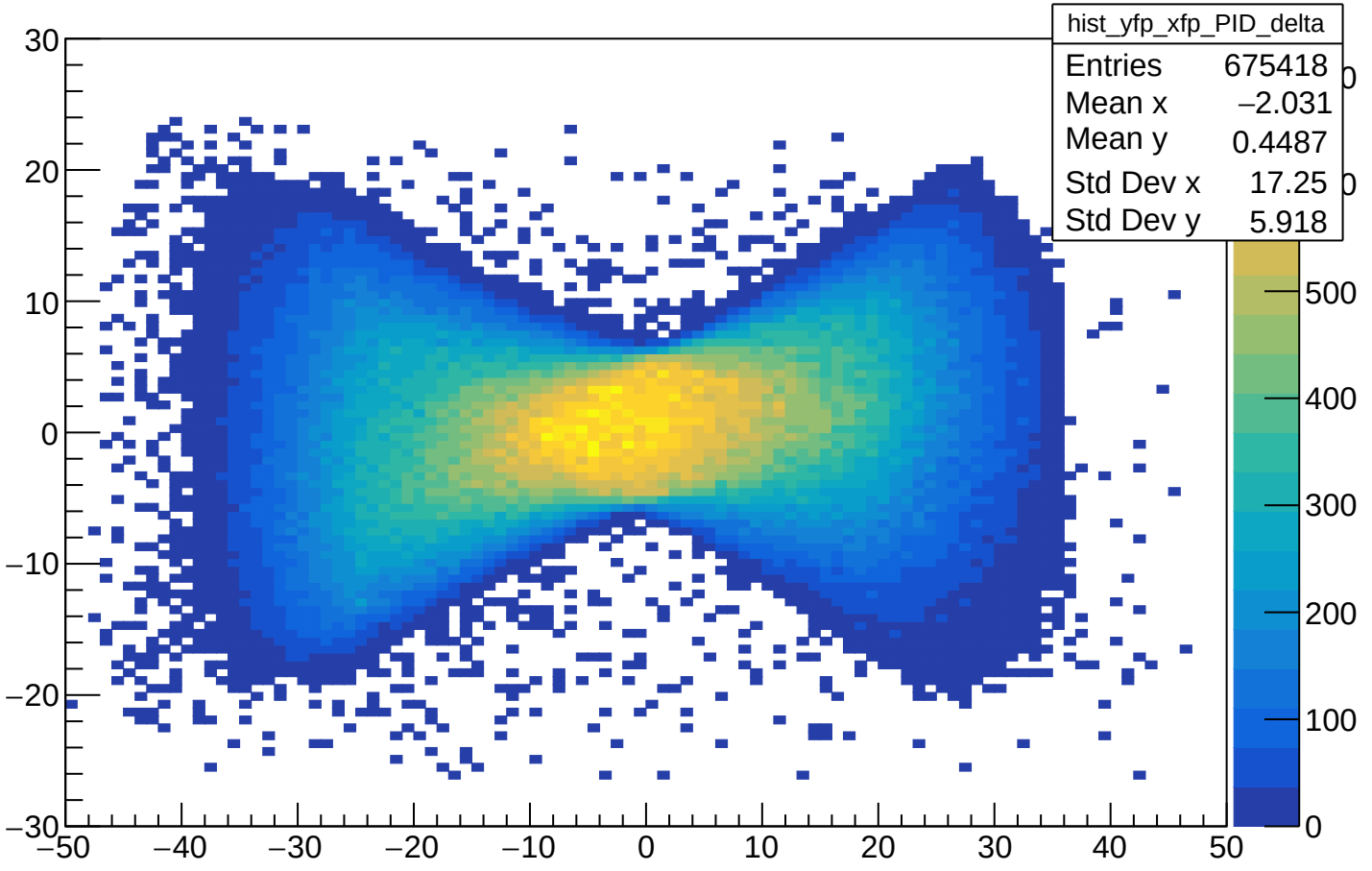

H.gtr.beta vs delta
hist_gtr_beta_delta
Entries 2487651
Mean x −1.539
Mean y 0.9975
Std Dev x 6.716
Std Dev y 0.04222
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
1400
1200
1000
8000
6000
4000
2000
0

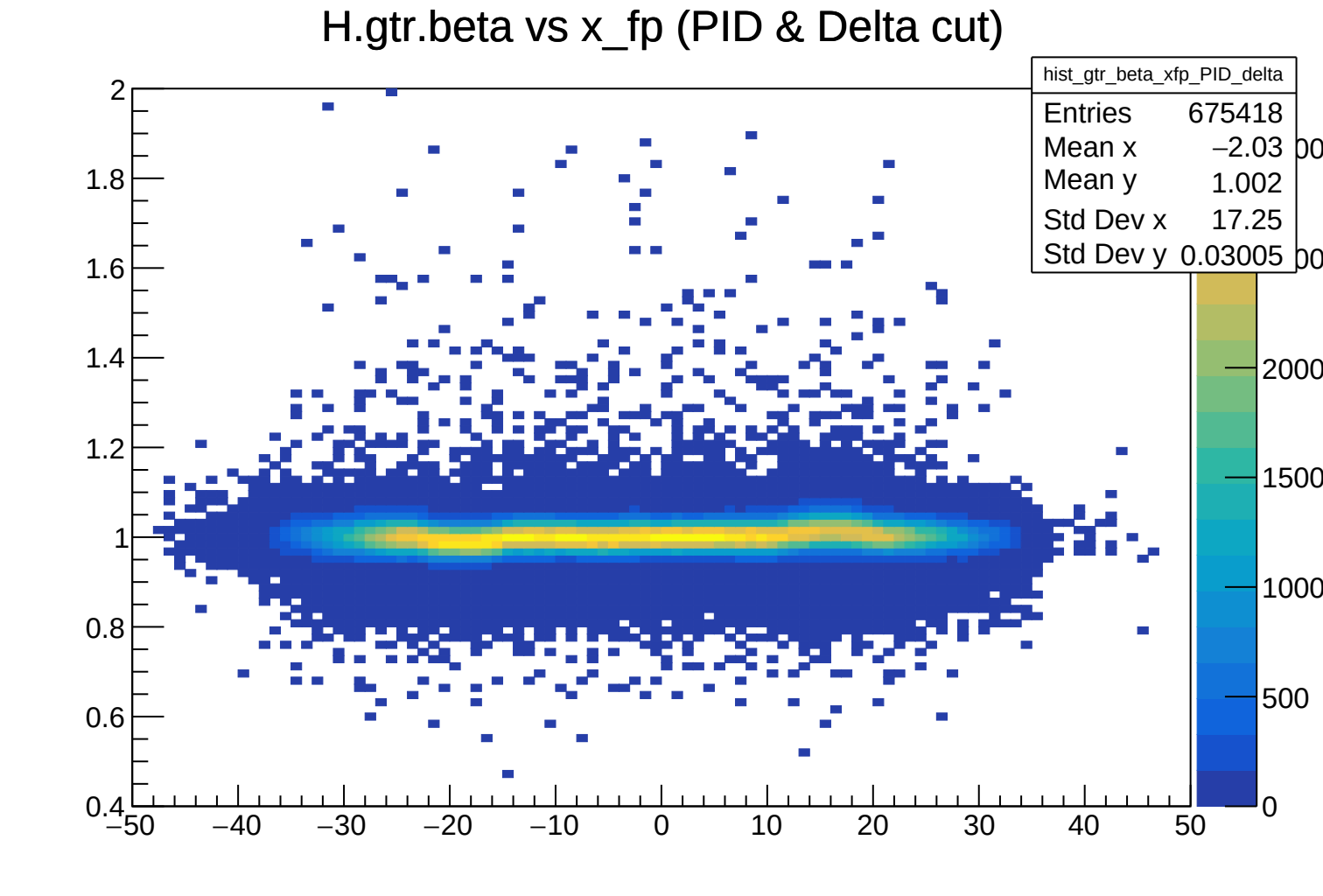

focal plane (PID cut)
hist_yfp_xfp_PID
Entries 981705
Mean x −1.874
Mean y 0.4019
Std Dev x 24.66
Std Dev y 7.741
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
500
400
300
200
100
0

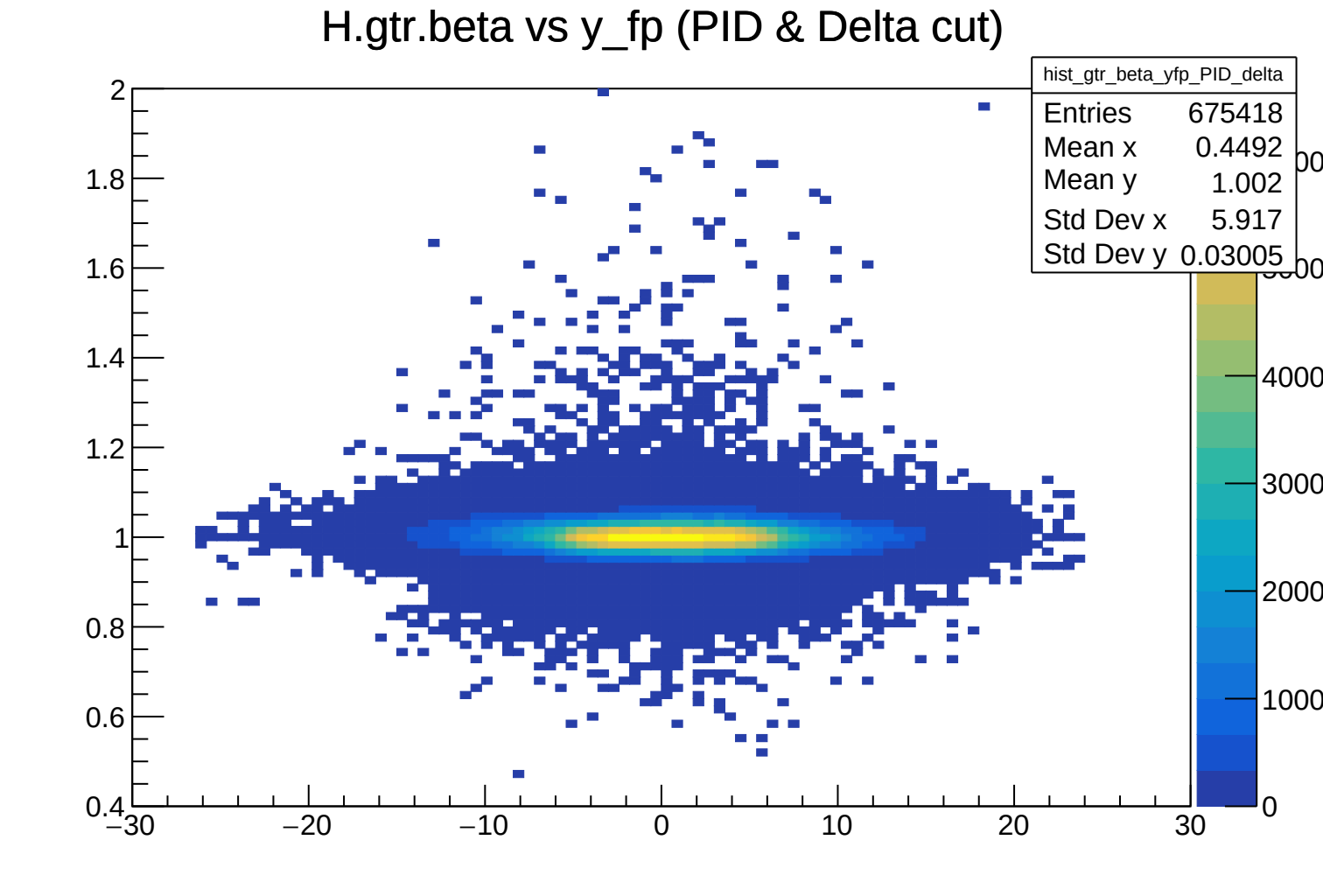

H.gtr.beta vs x_fp (PID cut)
hist_gtr_beta_xfp_PID
Entries 981705
Mean x −1.854
Mean y 1.003
Std Dev x 24.65
Std Dev y 0.03247
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−50
−40
−30
−20
−10
0
10
20
30
40
50
2000
1500
1000
500
0

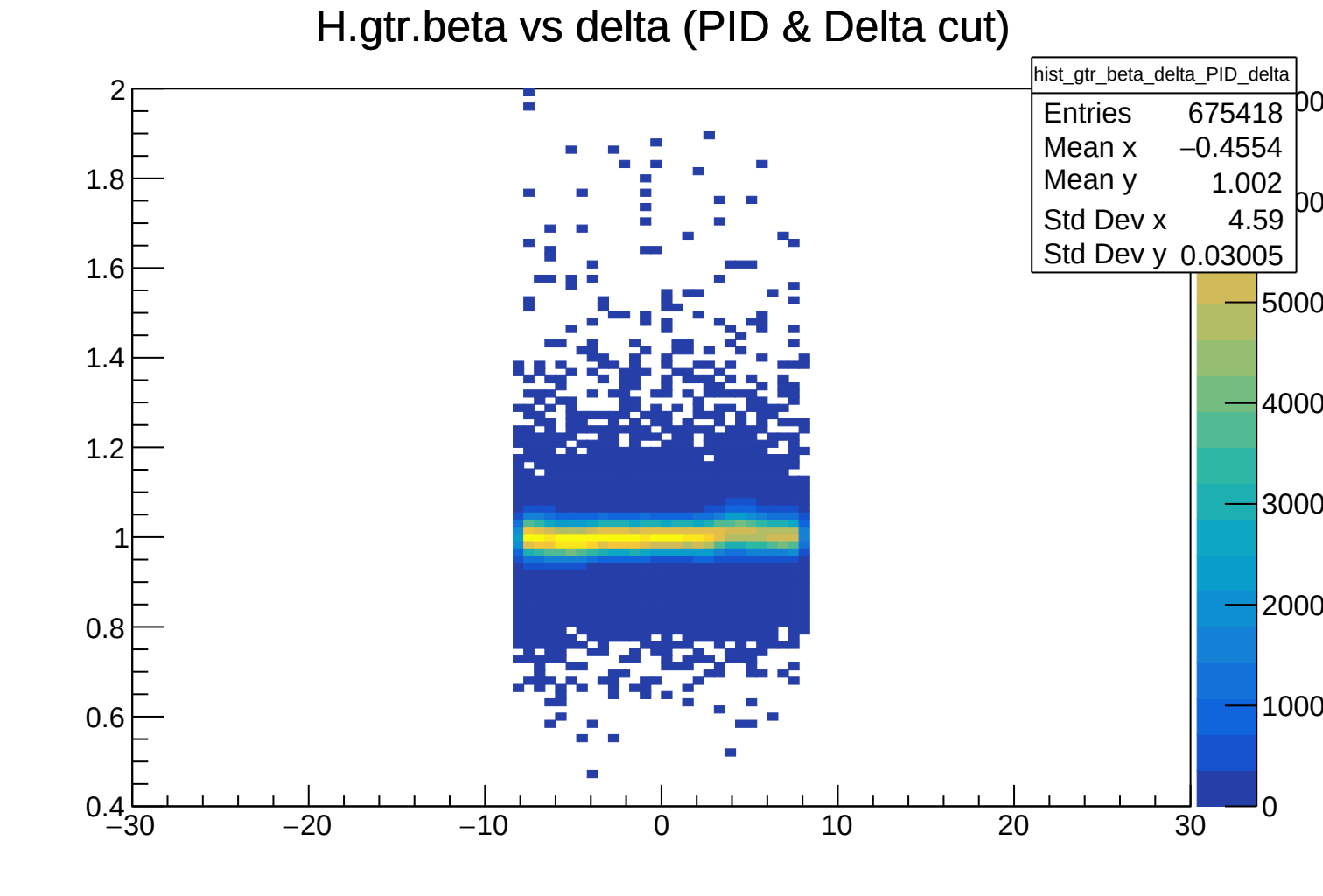

H.gtr.beta vs y_fp (PID cut)
hist_gtr_beta_yfp_PID
Entries 981705
Mean x 0.4024
Mean y 1.003
Std Dev x 7.74
Std Dev y 0.03247
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
5000
4000
3000
2000
1000
0


H.gtr.beta vs delta (PID cut)
hist_gtr_beta_delta_PID
Entries 981705
Mean x −0.1555
Mean y 1.003
Std Dev x 6.845
Std Dev y 0.03243
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


focal plane (PID & Delta cut)
hist_yfp_xfp_PID_delta
Entries 675418
Mean x −2.031
Mean y 0.4487
Std Dev x 17.25
Std Dev y 5.918
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
500
400
300
200
100
0


H.gtr.beta vs x_fp (PID & Delta cut)
hist_gtr_beta_xfp_PID_delta
Entries 675418
Mean x −2.03
Mean y 1.002
Std Dev x 17.25
Std Dev y 0.03005
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
2000
1500
1000
500
0


H.gtr.beta vs y_fp (PID & Delta cut)
hist_gtr_beta_yfp_PID_delta
Entries 675418
Mean x 0.4492
Mean y 1.002
Std Dev x 5.917
Std Dev y 0.03005
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 675418
Mean x −0.4554
Mean y 1.002
Std Dev x 4.59
Std Dev y 0.03005
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