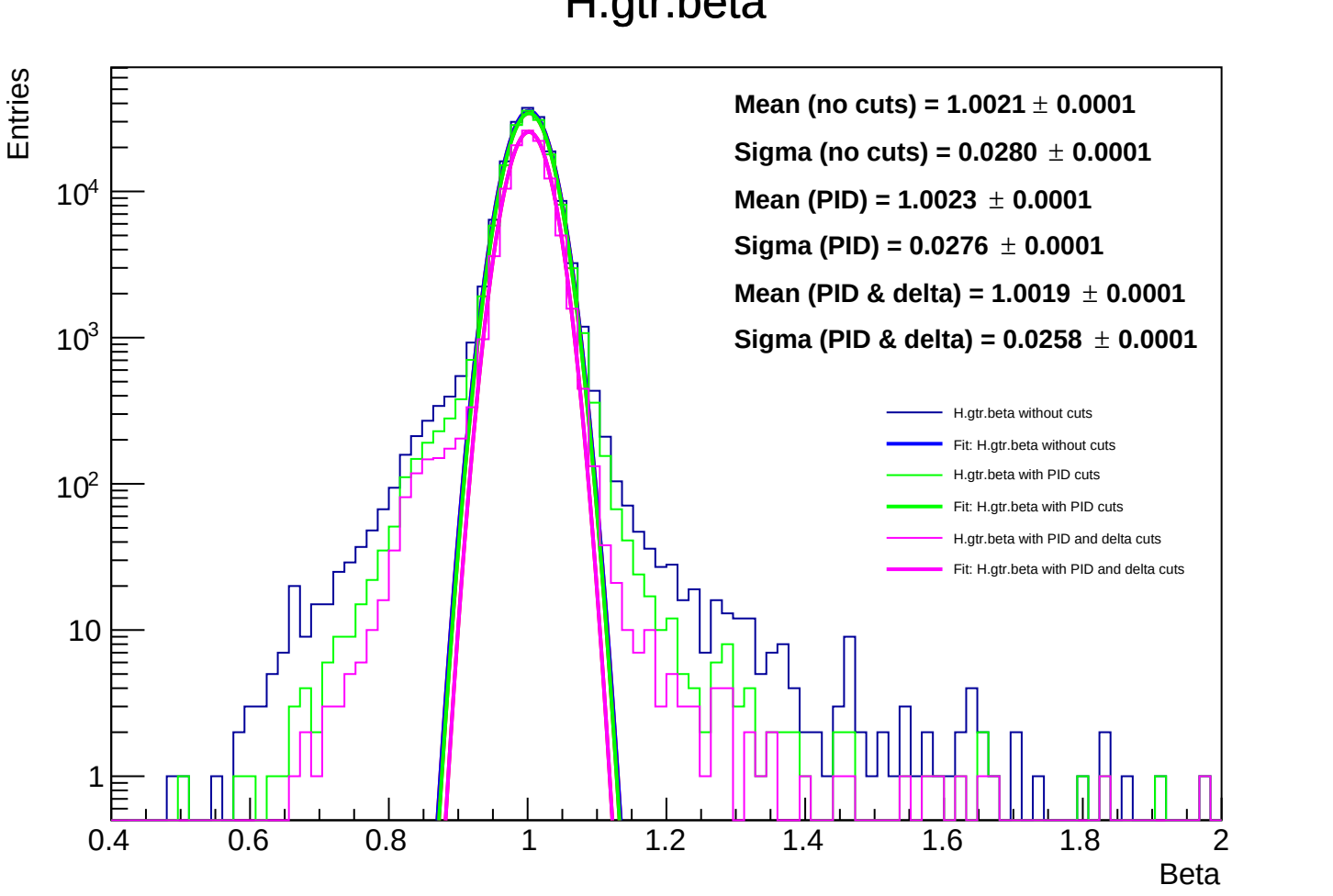
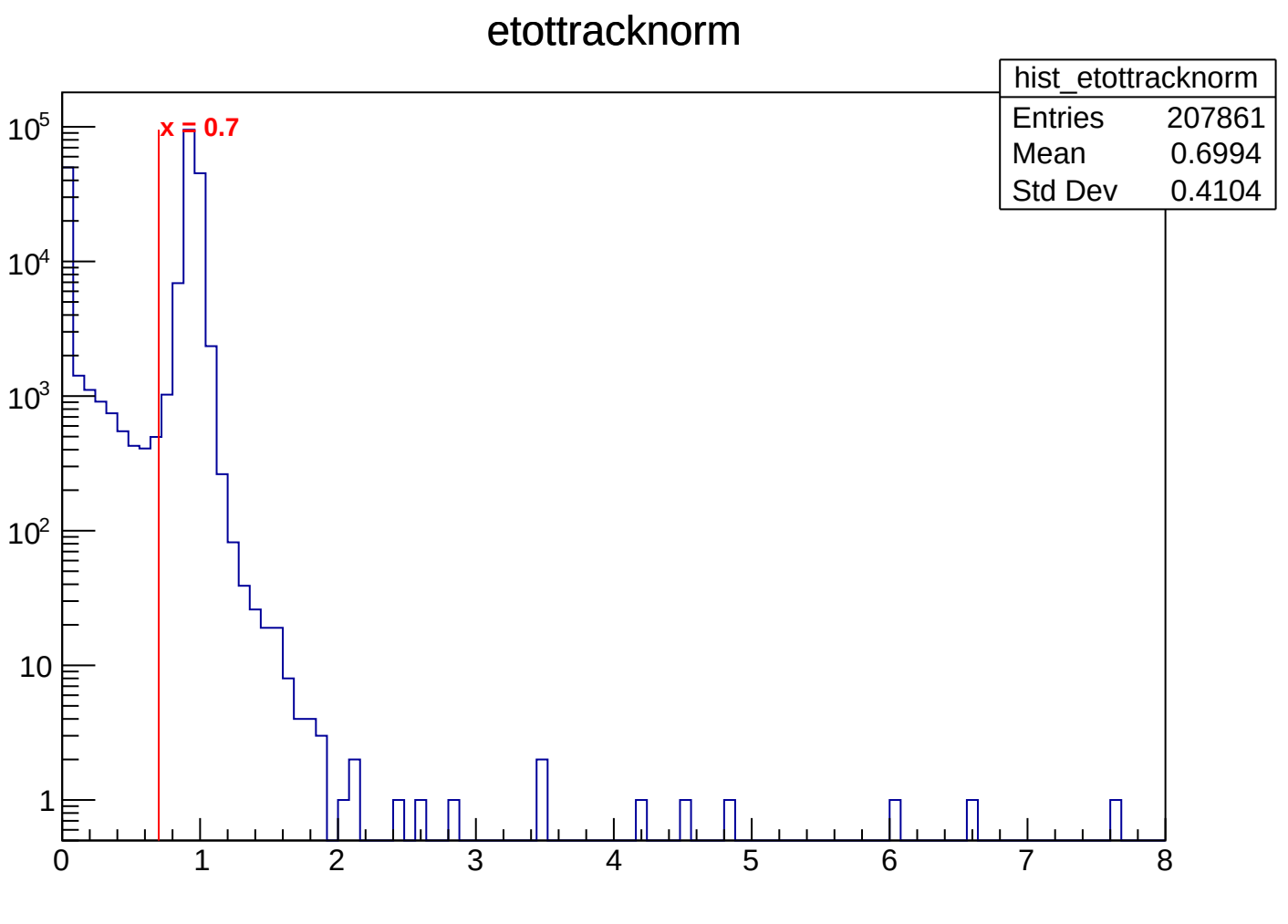
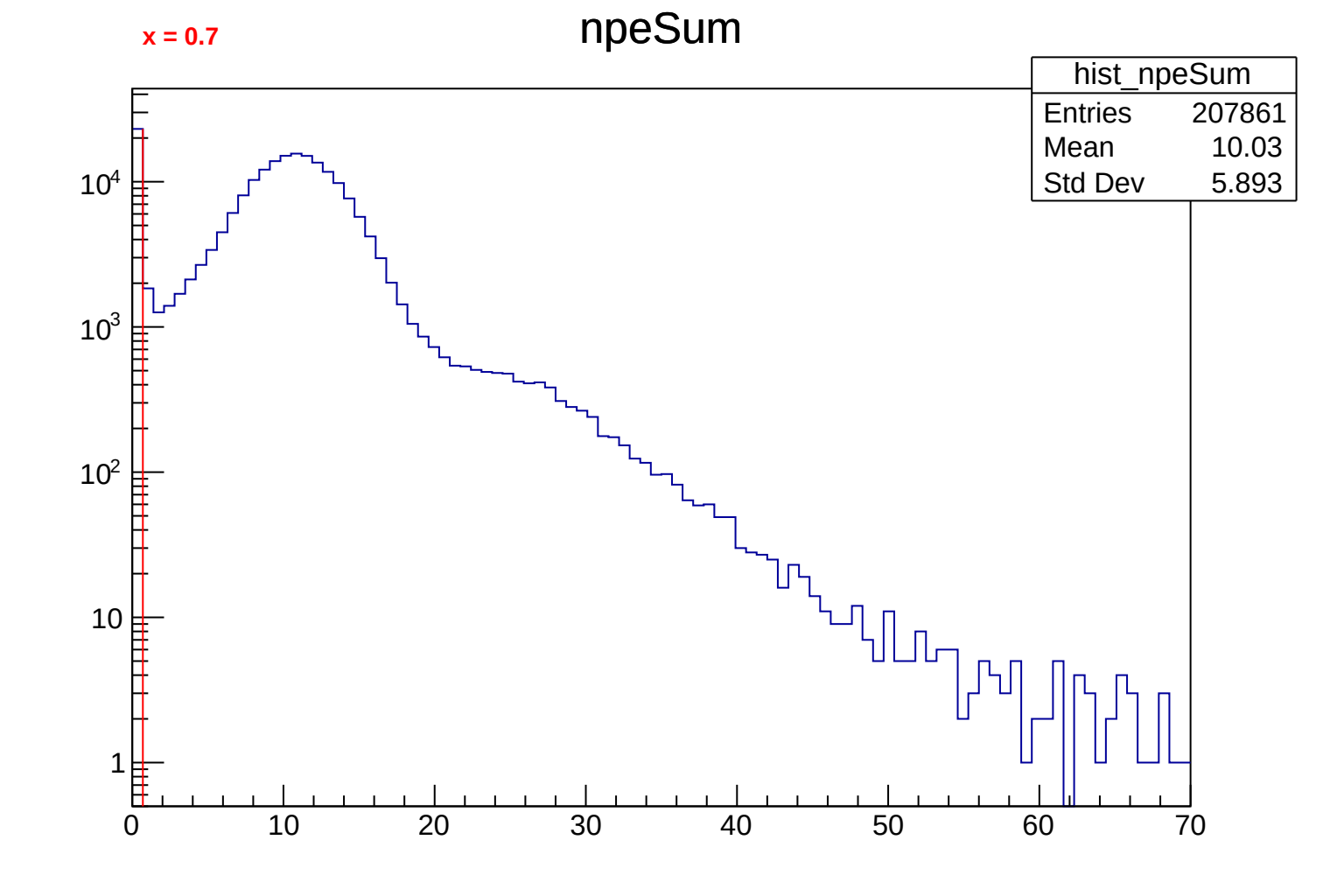
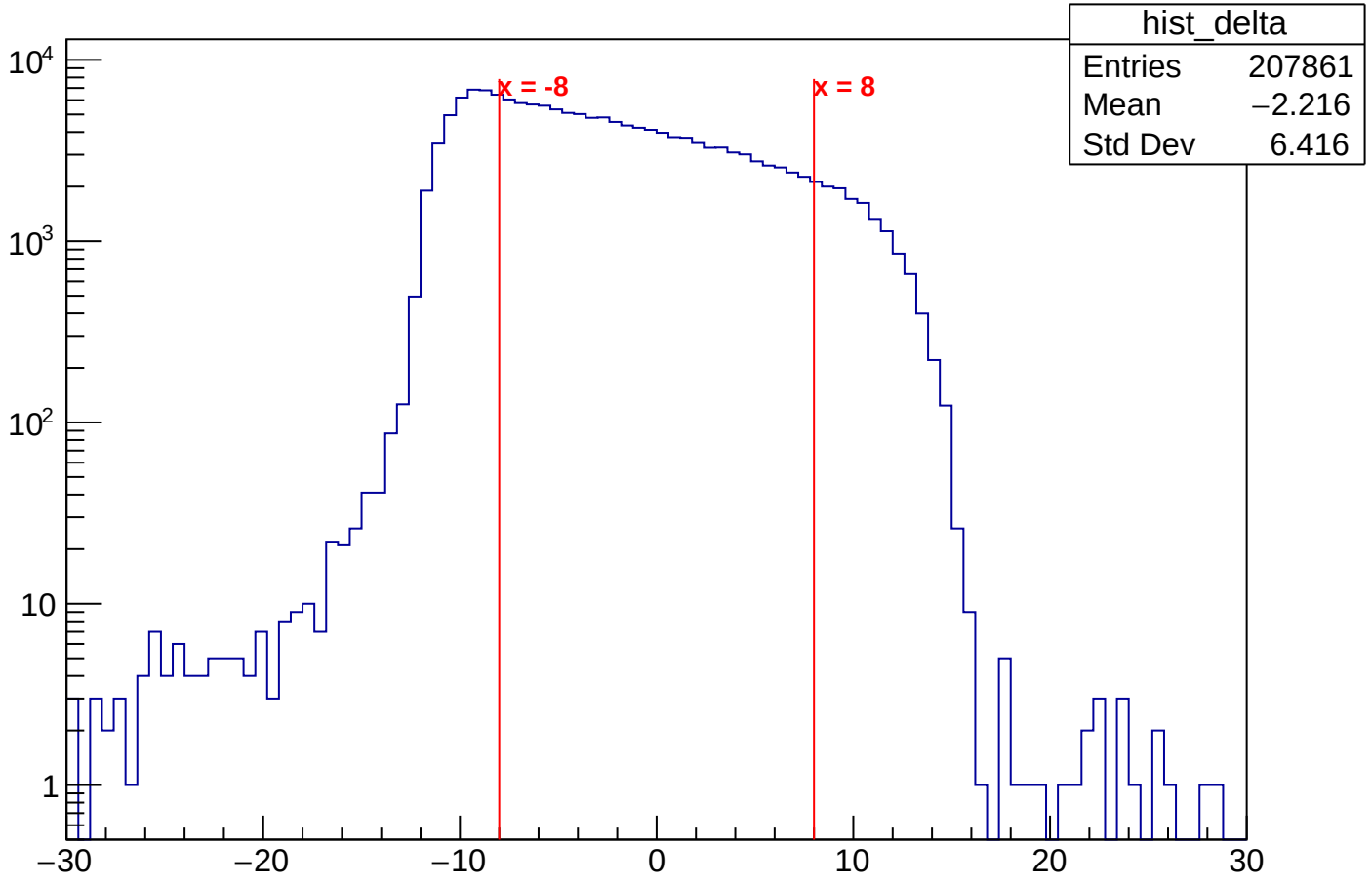
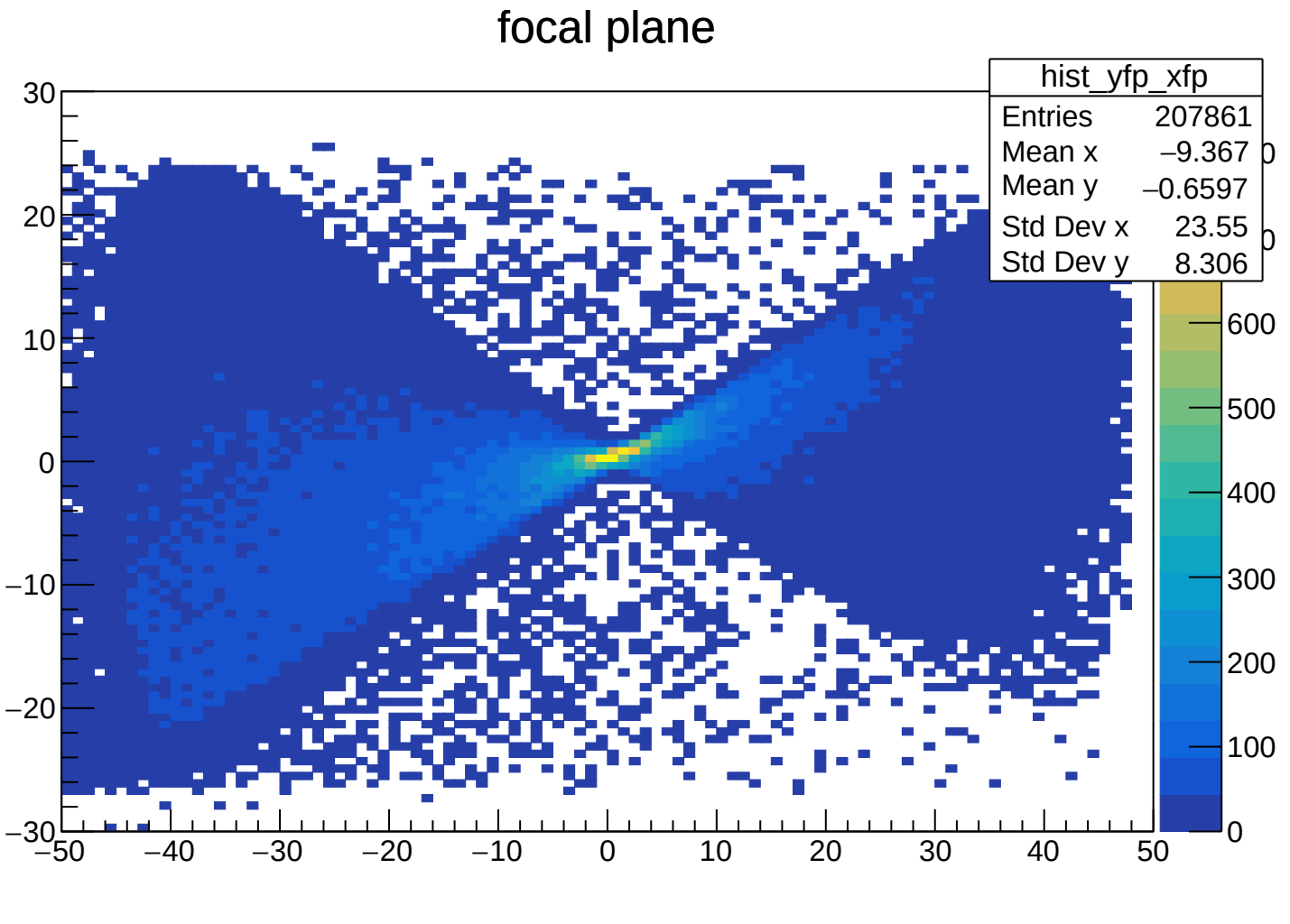
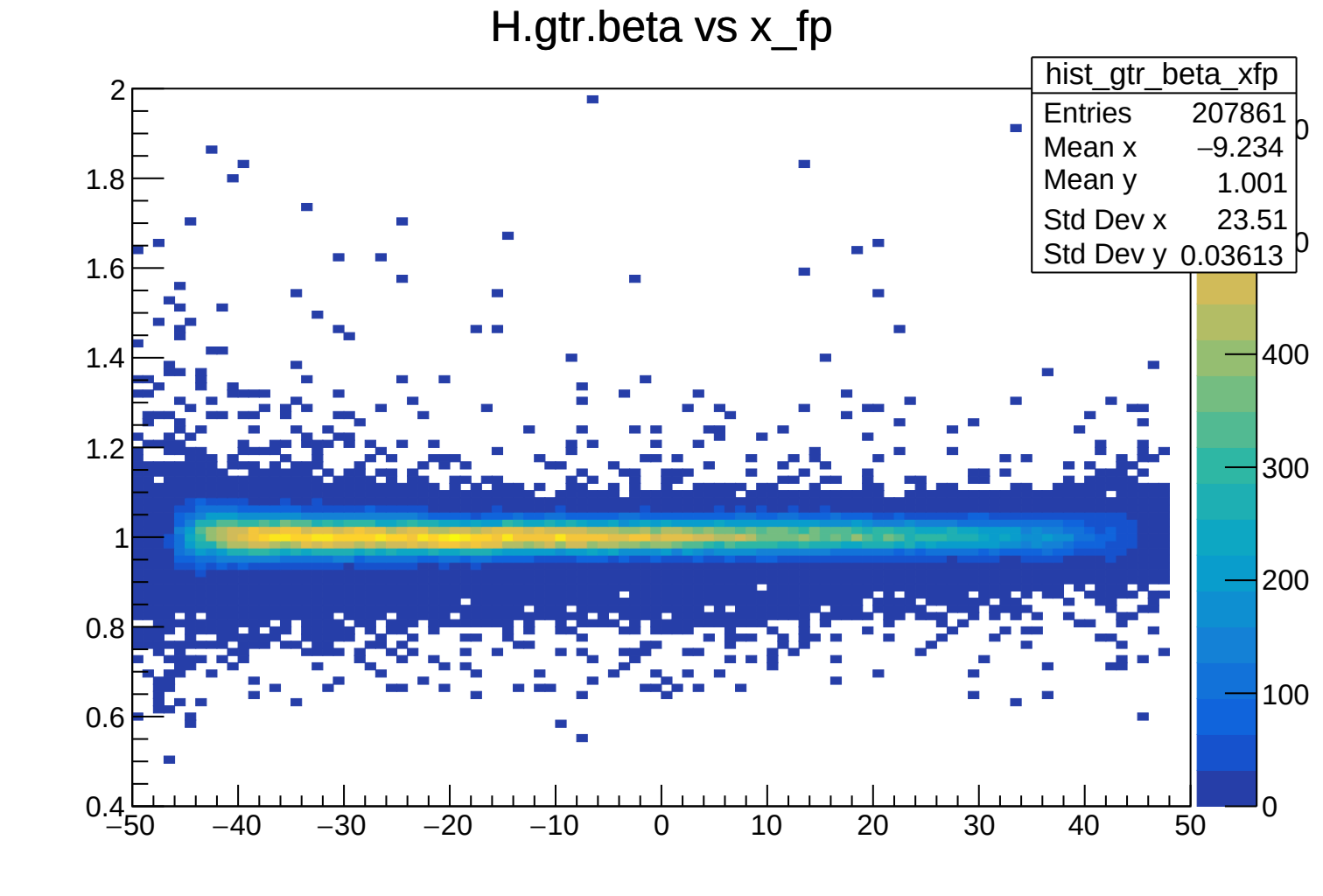

H.gtr.beta
Entries
Beta
Mean (no cuts) = 1.0021 ± 0.0001
Sigma (no cuts) = 0.0280 ± 0.0001
Mean (PID) = 1.0023 ± 0.0001
Sigma (PID) = 0.0276 ± 0.0001
Mean (PID & delta) = 1.0019 ± 0.0001
Sigma (PID & delta) = 0.0258 ± 0.0001
H.gtr.beta without cuts
Fit: H.gtr.beta without cuts
H.gtr.beta with PID cuts
Fit: H.gtr.beta with PID cuts
H.gtr.beta with PID and delta cuts
Fit: H.gtr.beta with PID and delta cuts
10^4
10^3
10^2
10
1
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2

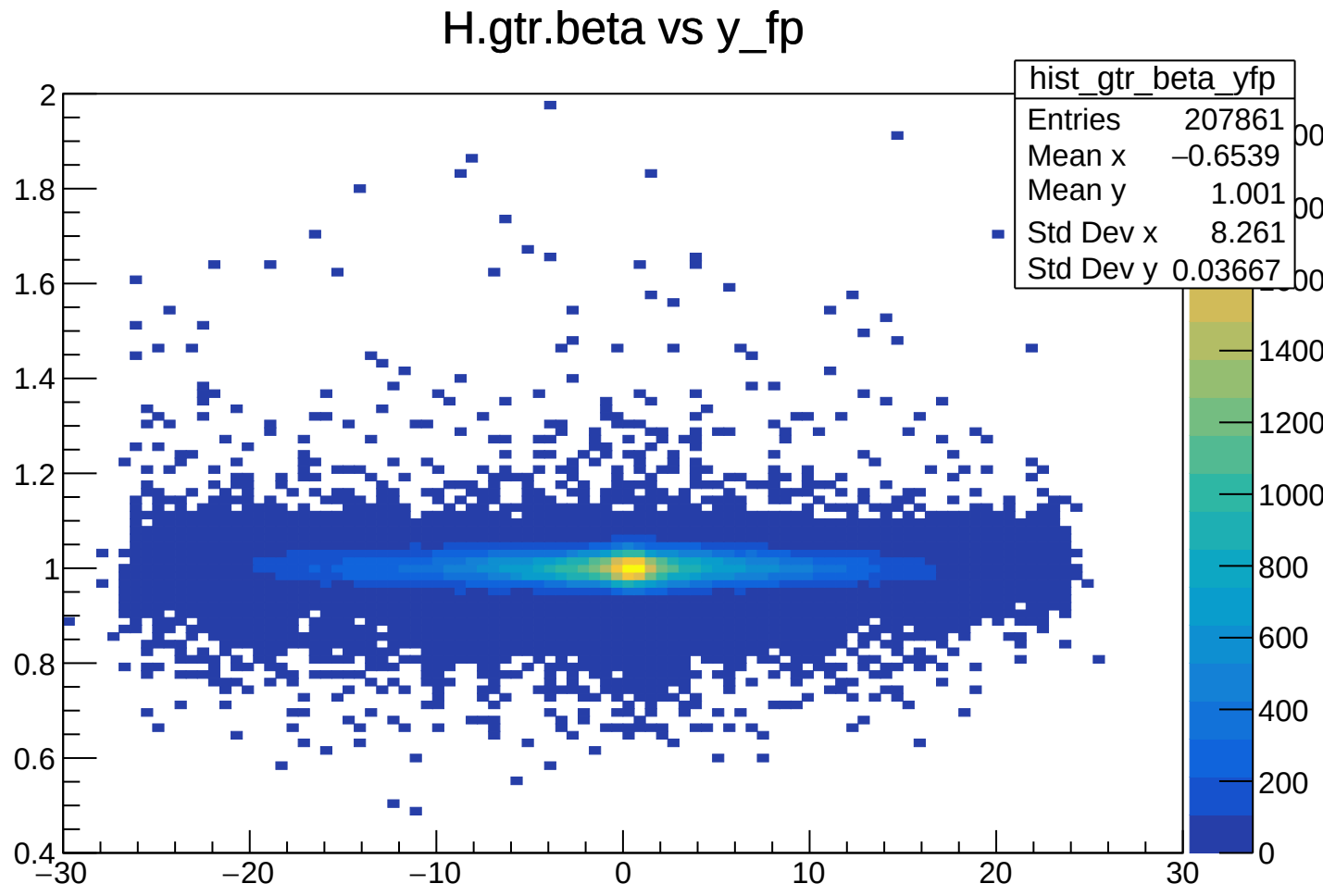

etottracknorm
hist_etottracknorm
Entries 207861
Mean 0.6994
Std Dev 0.4104
x = 0.7
10^5
10^4
10^3
10^2
10
1
0
1
2
3
4
5
6
7
8

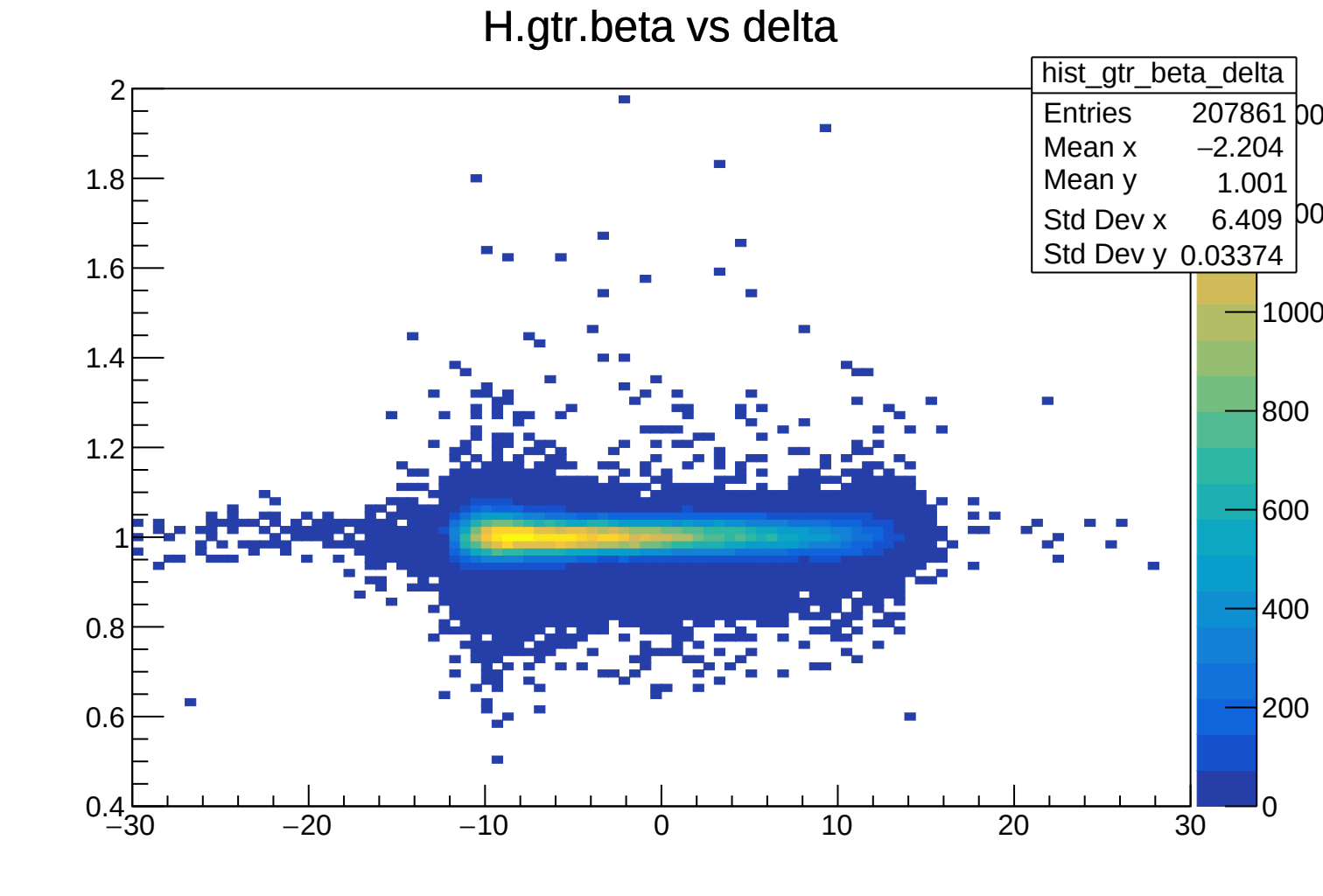

x = 0.7
npeSum
hist_npeSum
Entries 207861
Mean 10.03
Std Dev 5.893
10^4
10^3
10^2
10
1
0
10
20
30
40
50
60
70

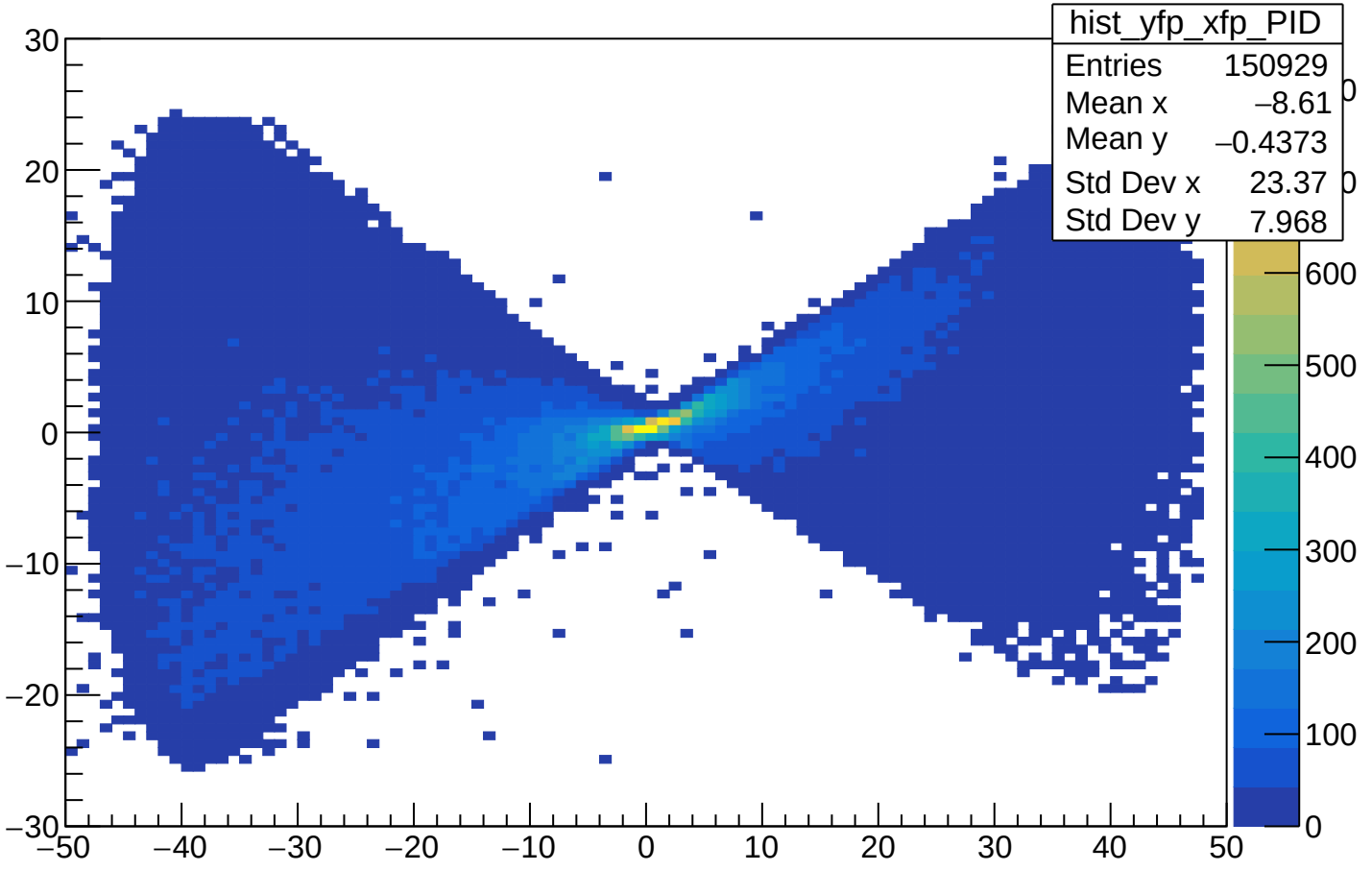

delta
hist_delta
Entries 207861
Mean −2.216
Std Dev 6.416
x = -8
x = 8
10^4
10^3
10^2
10
1
−30
−20
−10
0
10
20
30

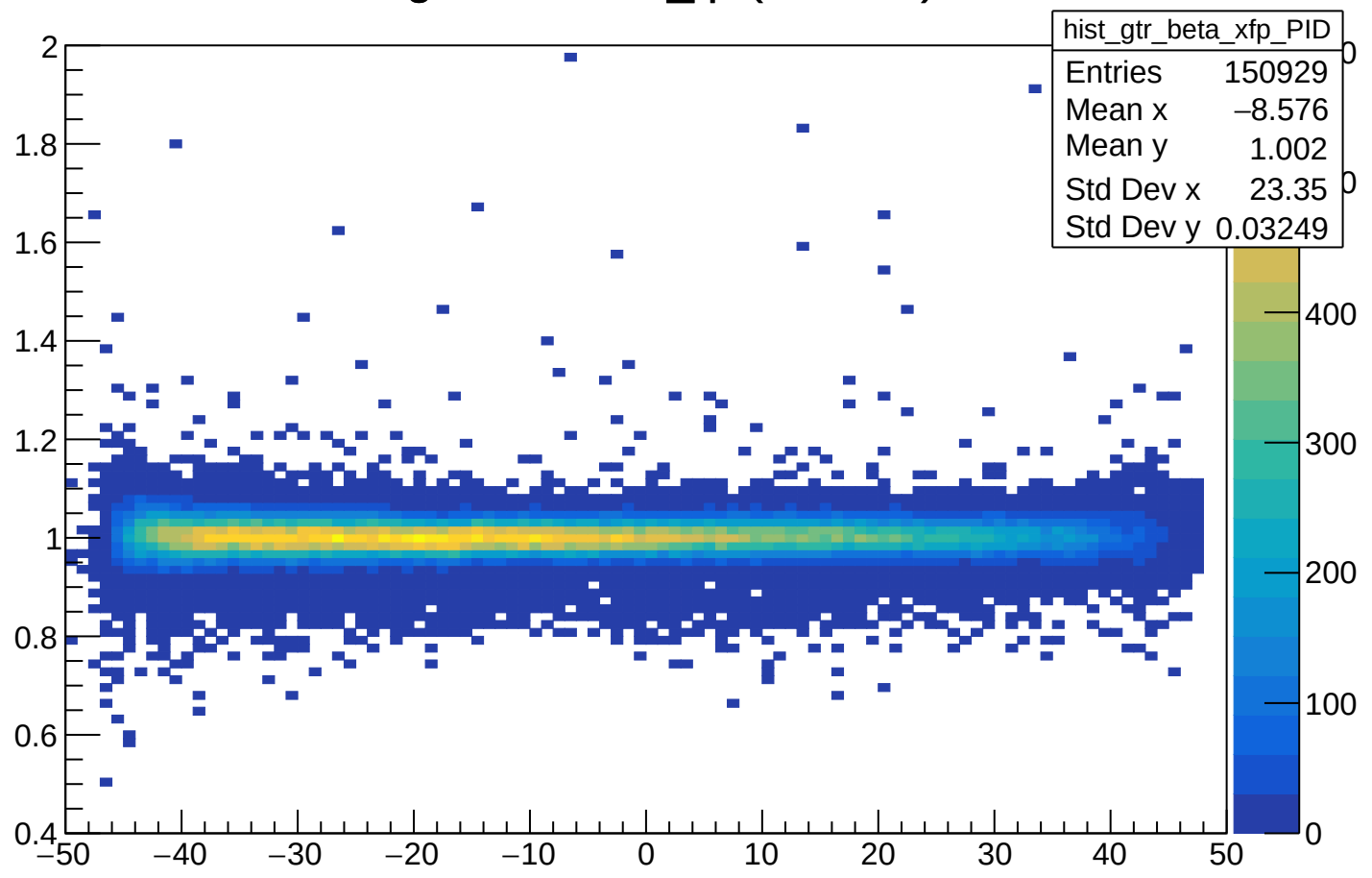

focal plane
hist_yfp_xfp
Entries 207861
Mean x −9.367
Mean y −0.6597
Std Dev x 23.55
Std Dev y 8.306
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
600
500
400
300
200
100
0

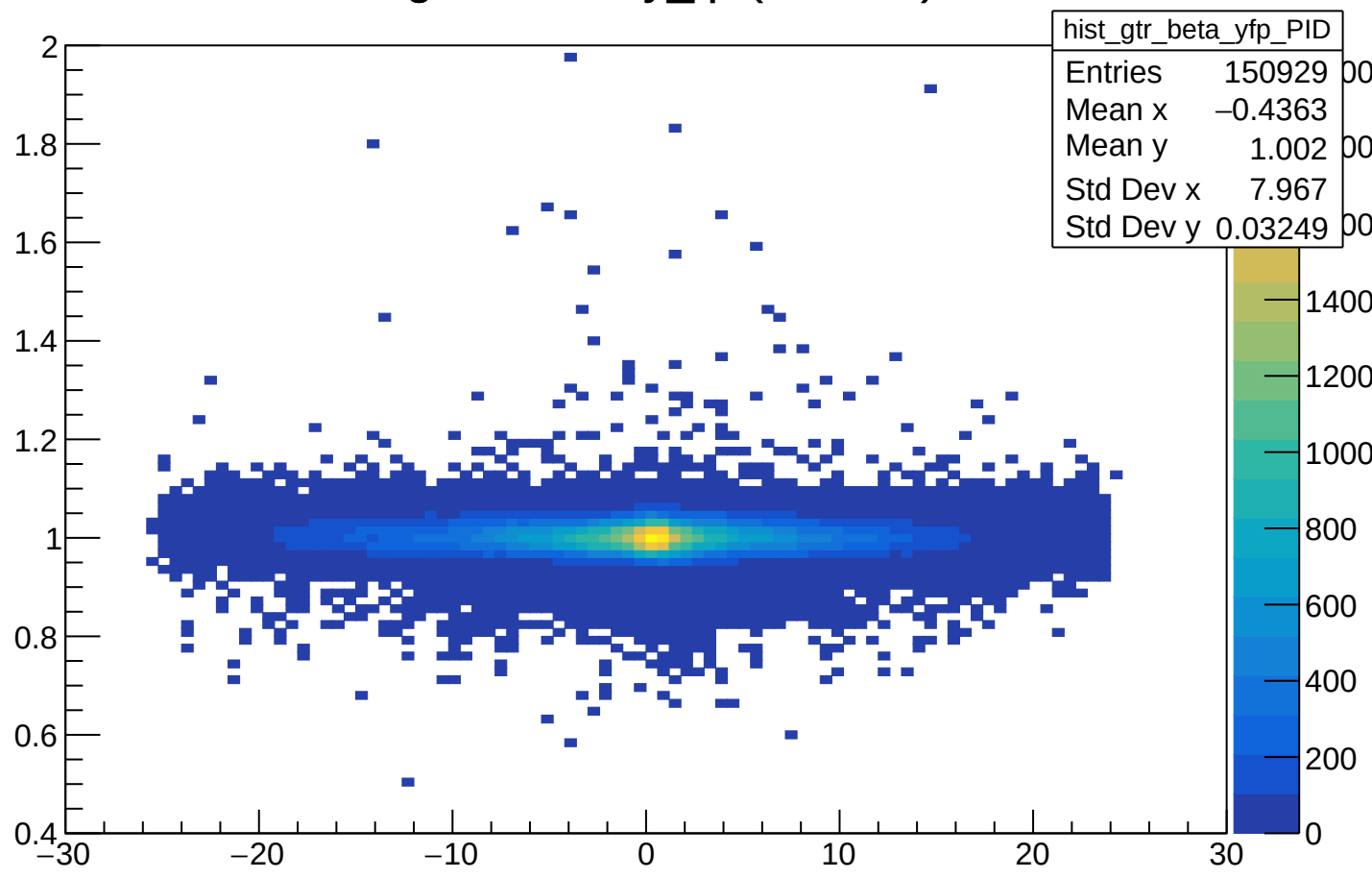

H.gtr.beta vs x_fp
hist_gtr_beta_xfp
Entries 207861
Mean x −9.234
Mean y 1.001
Std Dev x 23.51
Std Dev y 0.03613
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−50
−40
−30
−20
−10
0
10
20
30
40
50
400
300
200
100
0

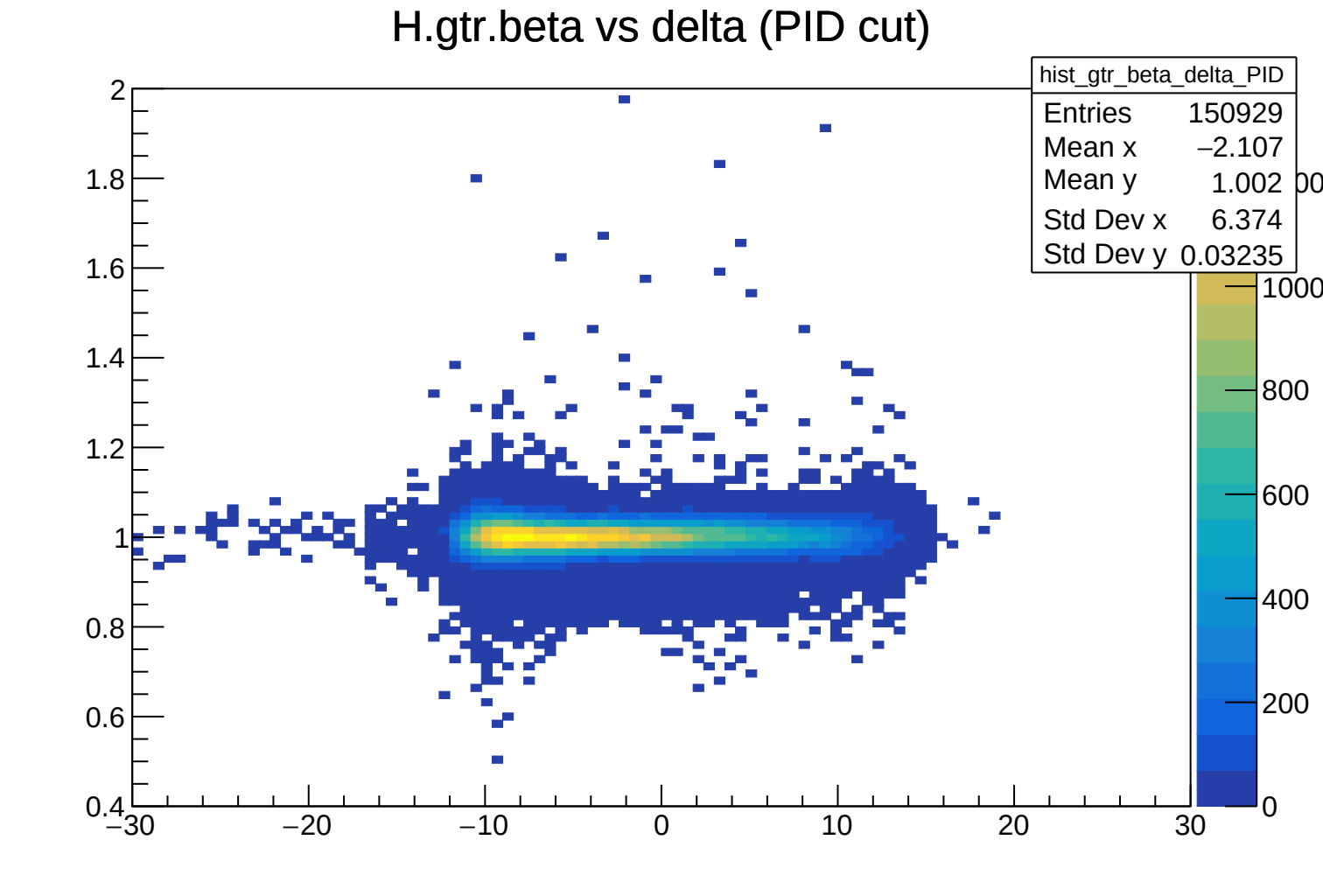

H.gtr.beta vs y_fp
hist_gtr_beta_yfp
Entries 207861
Mean x −0.6539
Mean y 1.001
Std Dev x 8.261
Std Dev y 0.03667
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
1400
1200
1000
800
600
400
200
0

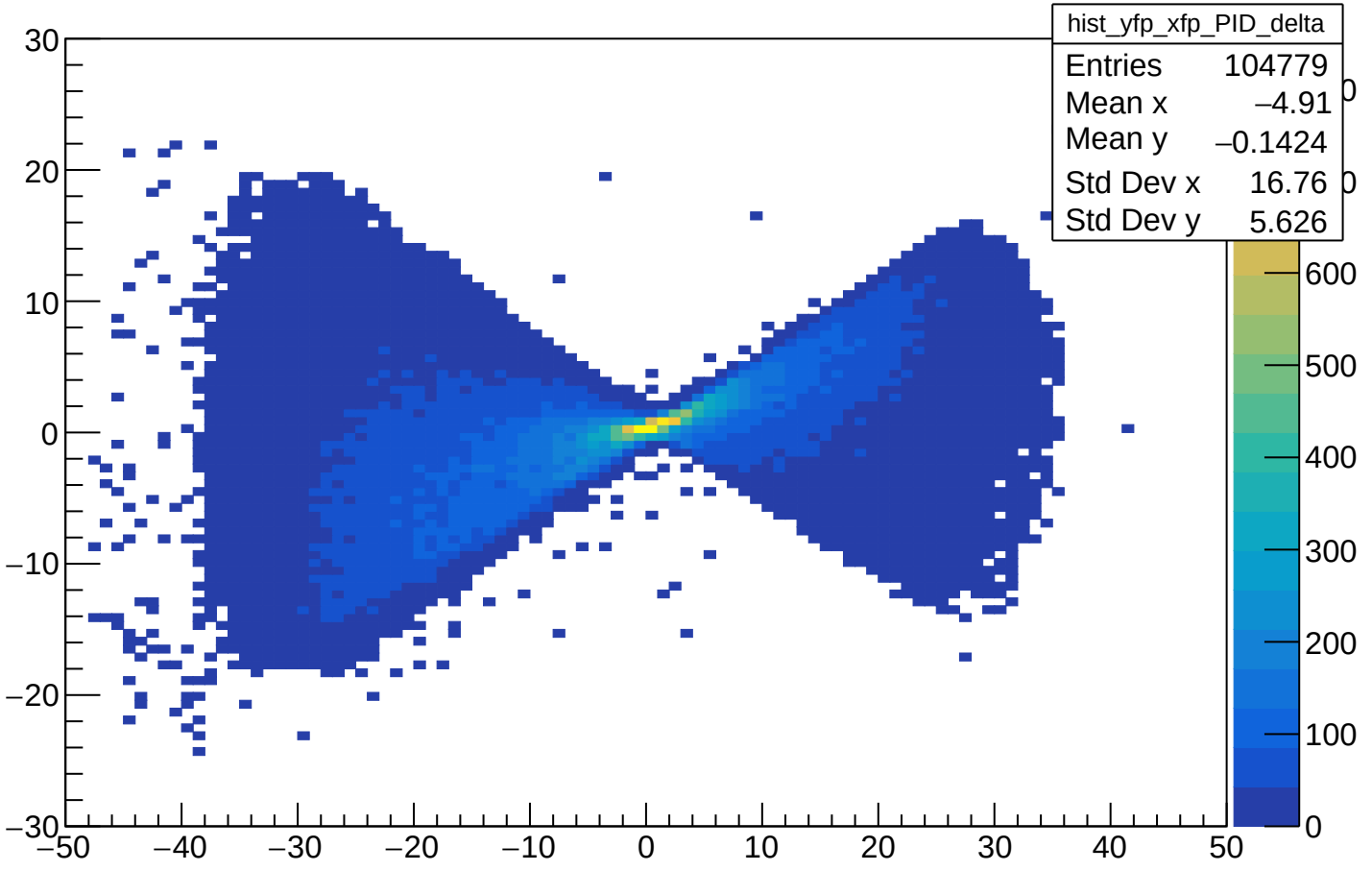

H.gtr.beta vs delta
hist_gtr_beta_delta
Entries 207861
Mean x −2.204
Mean y 1.001
Std Dev x 6.409
Std Dev y 0.03374
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
1000
800
600
400
200
0

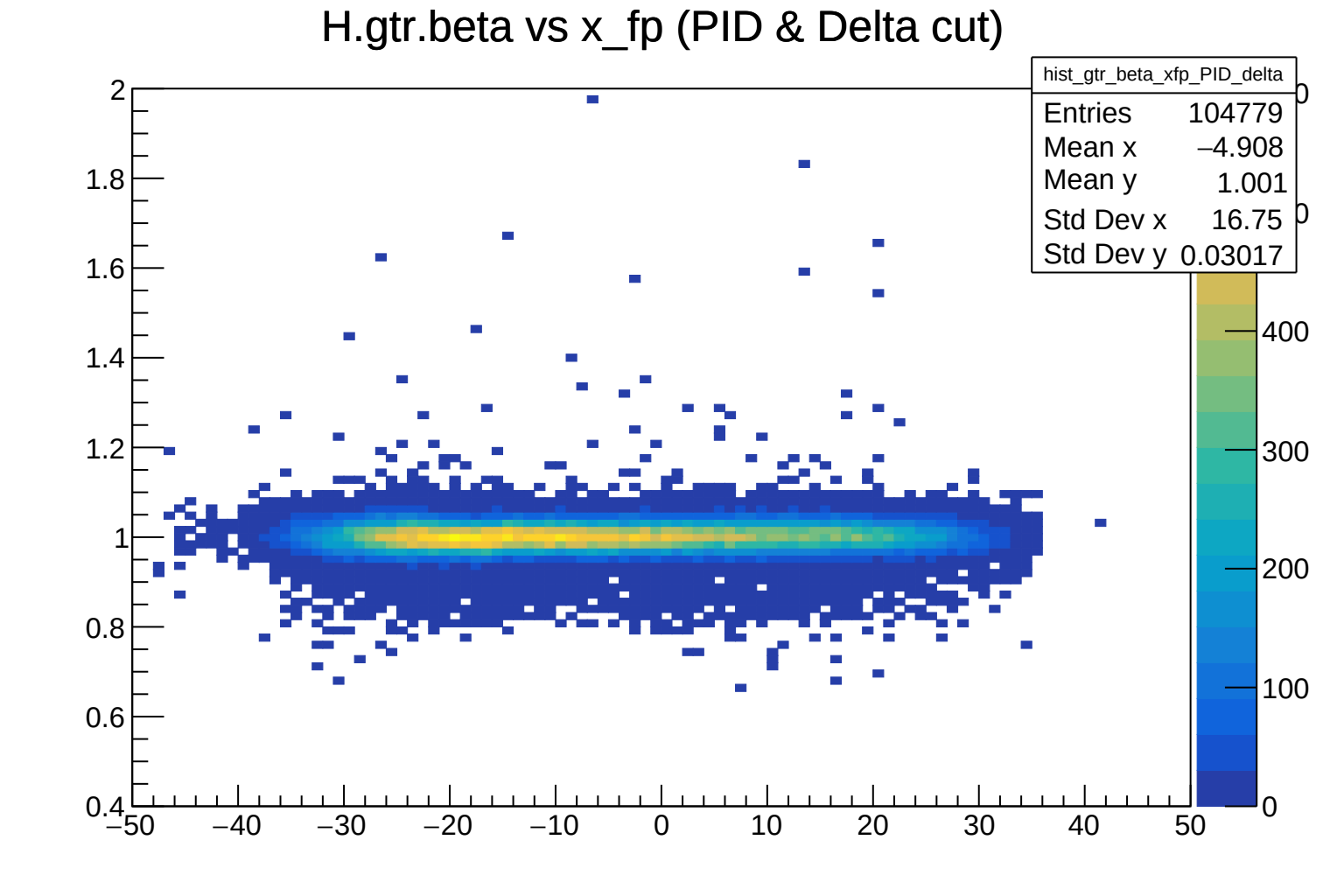

focal plane (PID cut)
hist_yfp_xfp_PID
Entries 150929
Mean x −8.61
Mean y −0.4373
Std Dev x 23.37
Std Dev y 7.968
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
600
500
400
300
200
100
0

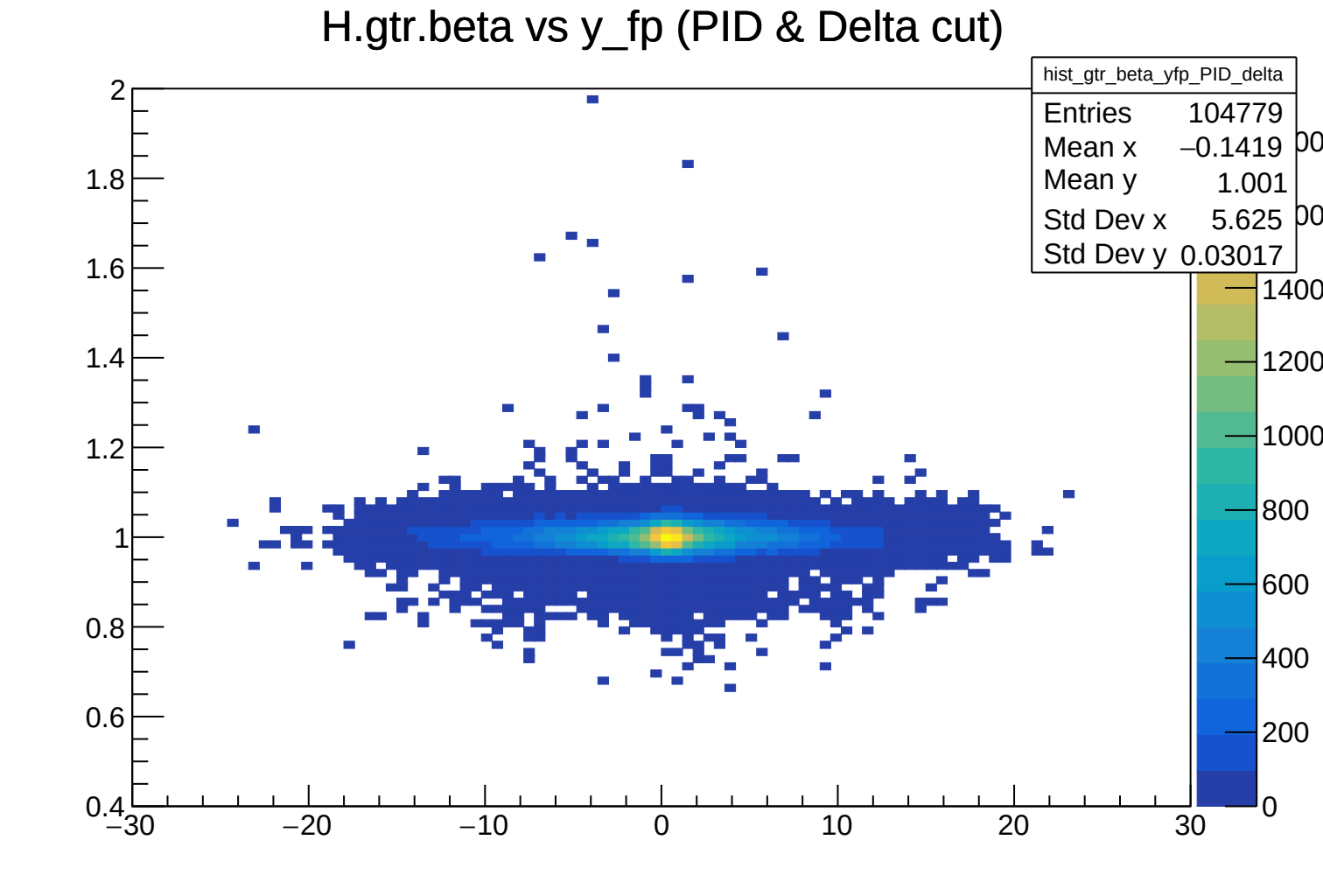

H.gtr.beta vs x_fp (PID cut)
hist_gtr_beta_xfp_PID
Entries 150929
Mean x −8.576
Mean y 1.002
Std Dev x 23.35
Std Dev y 0.03249
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−50
−40
−30
−20
−10
0
10
20
30
40
50
400
300
200
100
0

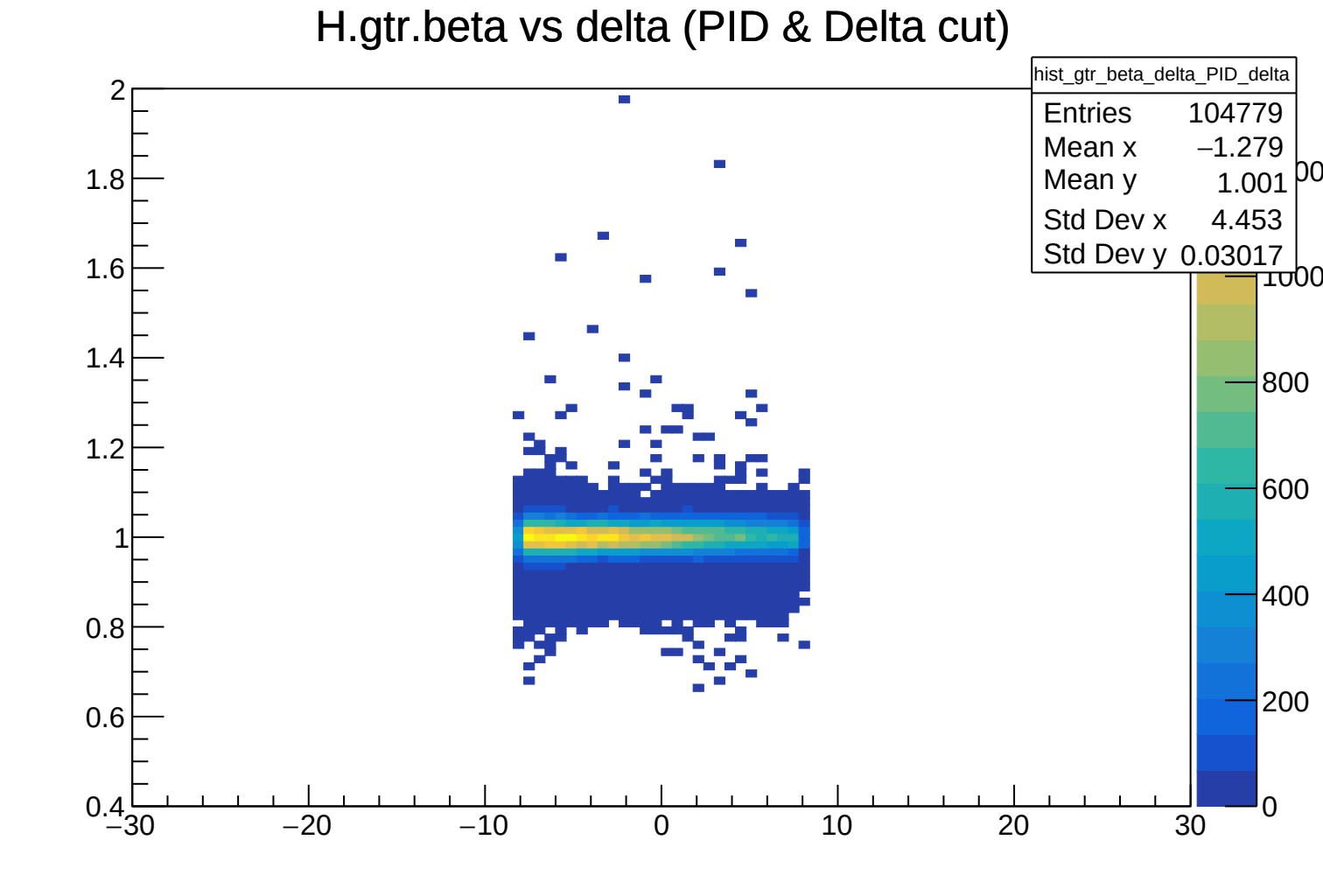

H.gtr.beta vs y_fp (PID cut)
hist_gtr_beta_yfp_PID
Entries 150929
Mean x −0.4363
Mean y 1.002
Std Dev x 7.967
Std Dev y 0.03249
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
1400
1200
1000
800
600
400
200
0


H.gtr.beta vs delta (PID cut)
hist_gtr_beta_delta_PID
Entries 150929
Mean x −2.107
Mean y 1.002
Std Dev x 6.374
Std Dev y 0.03235
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


focal plane (PID & Delta cut)
hist_yfp_xfp_PID_delta
Entries 104779
Mean x −4.91
Mean y −0.1424
Std Dev x 16.76
Std Dev y 5.626
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 104779
Mean x –4.908
Mean y 1.001
Std Dev x 16.75
Std Dev y 0.03017
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 (PID & Delta cut)
hist_gtr_beta_yfp_PID_delta
Entries 104779
Mean x −0.1419
Mean y 1.001
Std Dev x 5.625
Std Dev y 0.03017
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
800
600
400
200
0


H.gtr.beta vs delta (PID & Delta cut)
hist_gtr_beta_delta_PID_delta
Entries 104779
Mean x −1.279
Mean y 1.001
Std Dev x 4.453
Std Dev y 0.03017
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