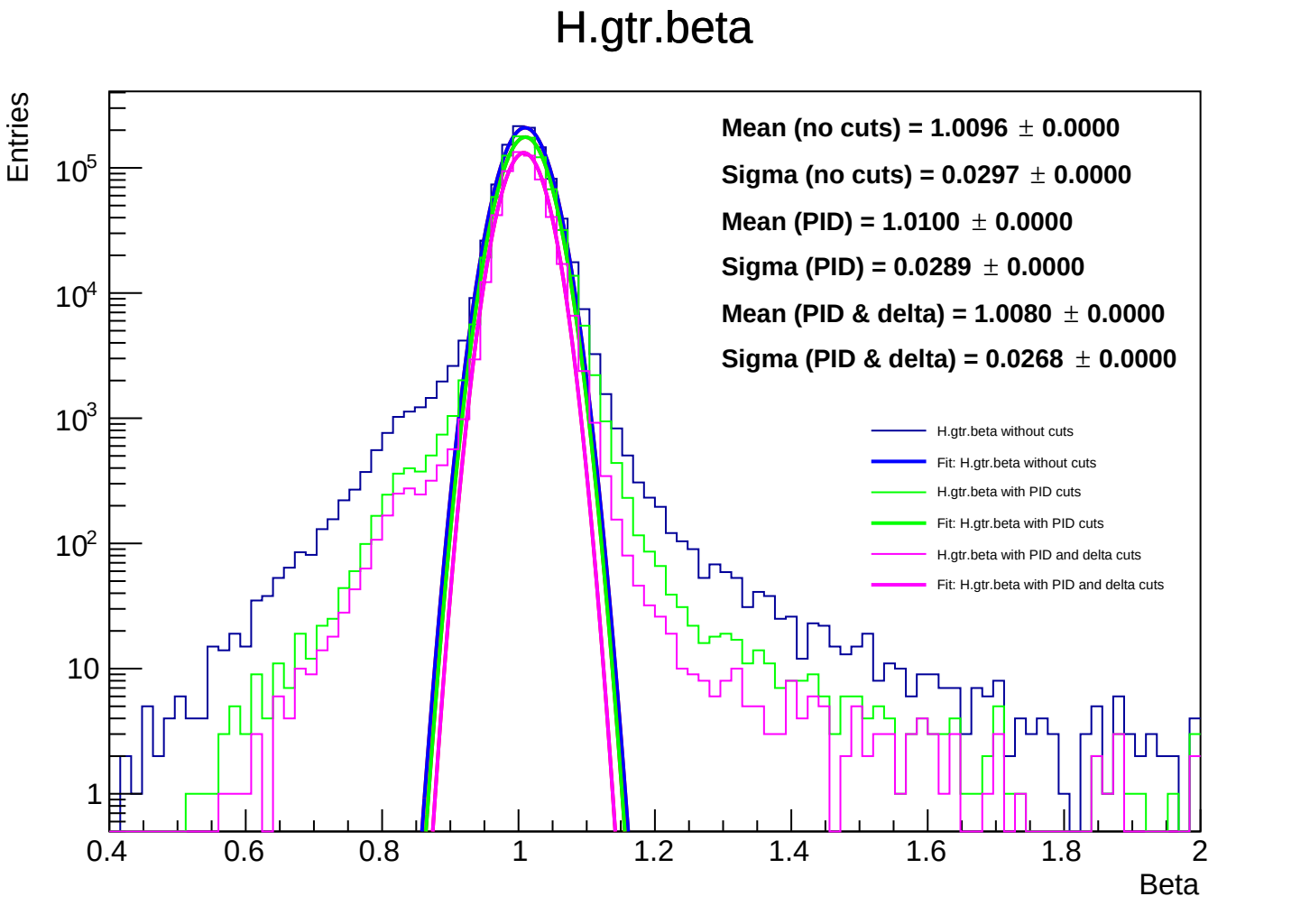
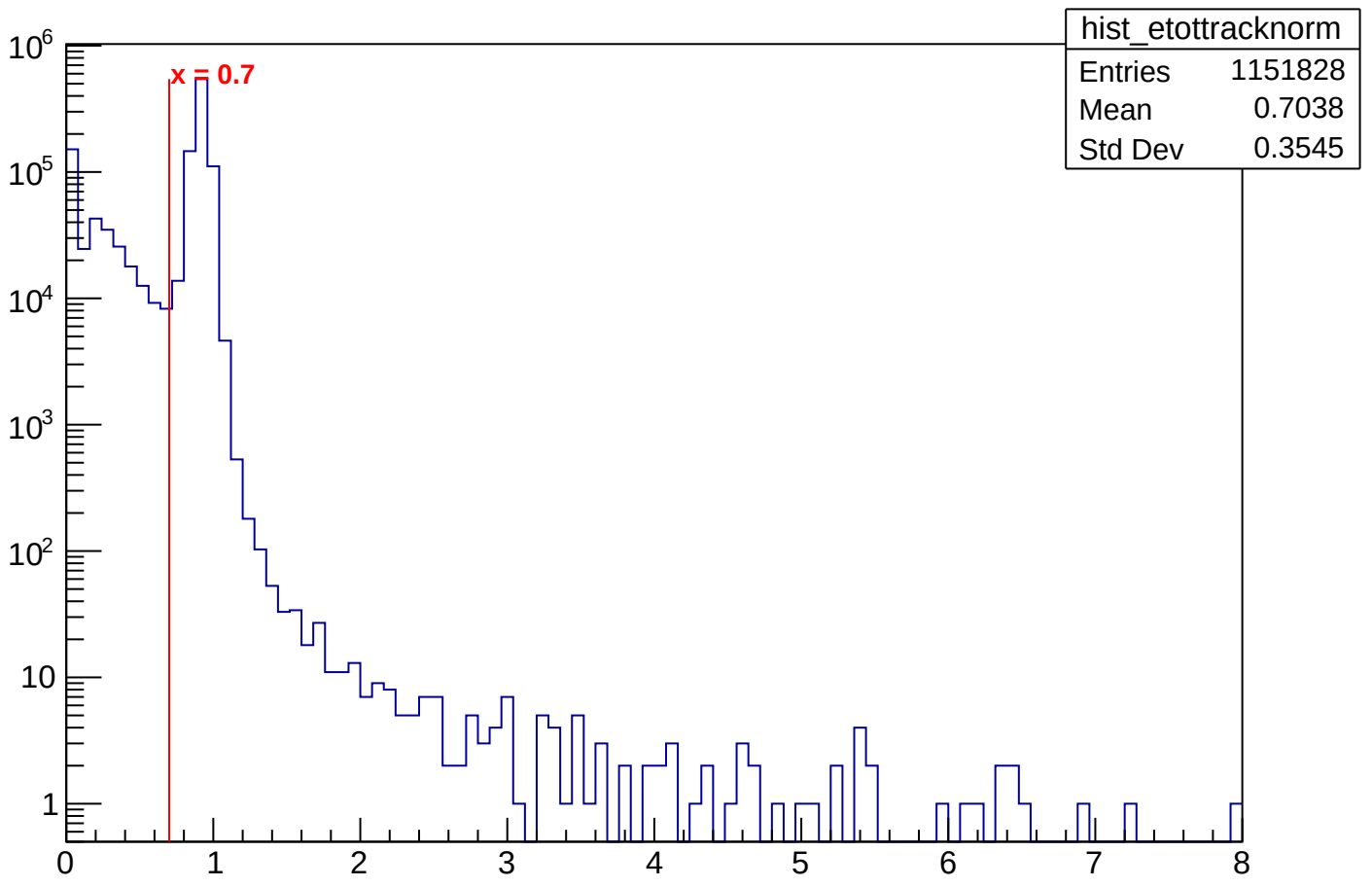
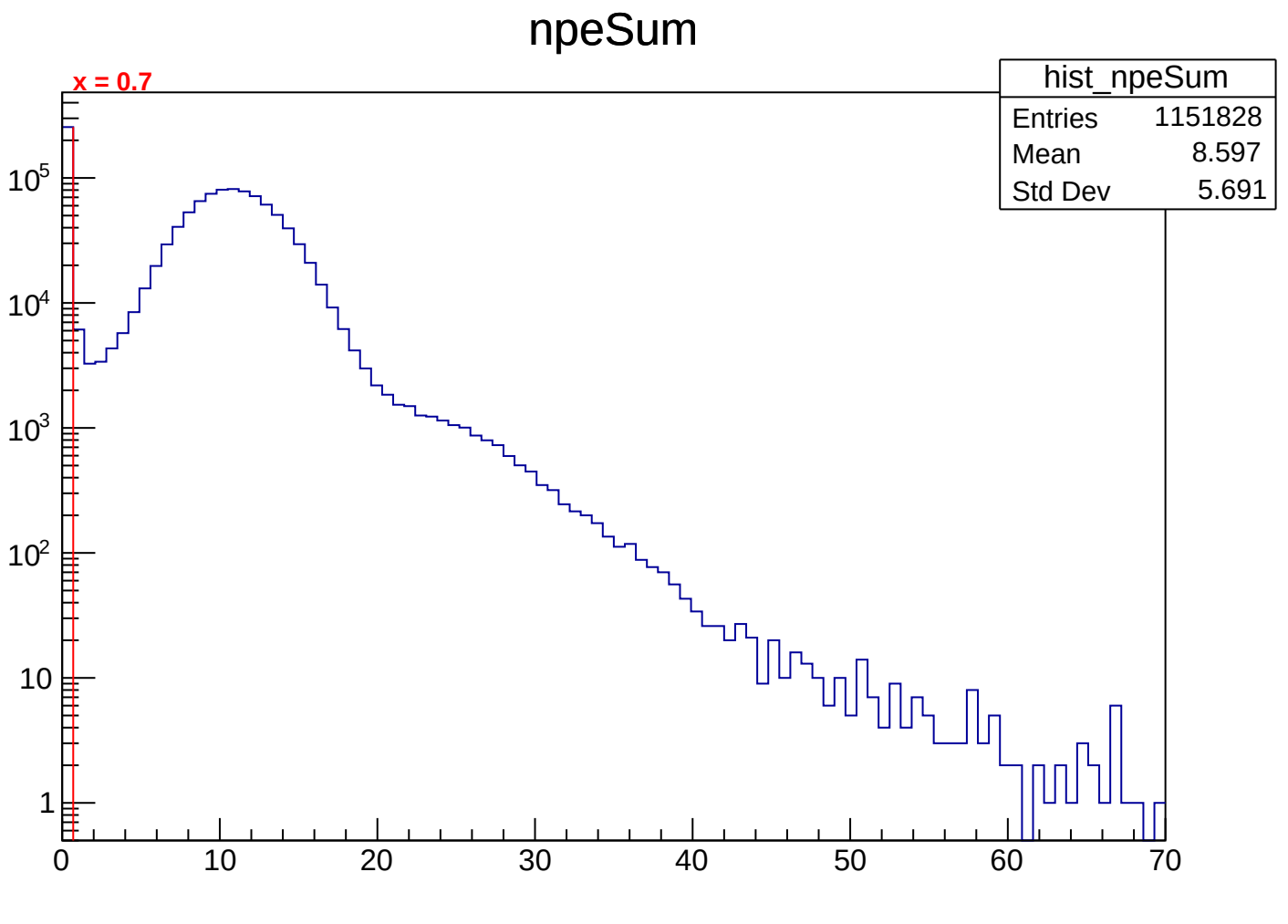
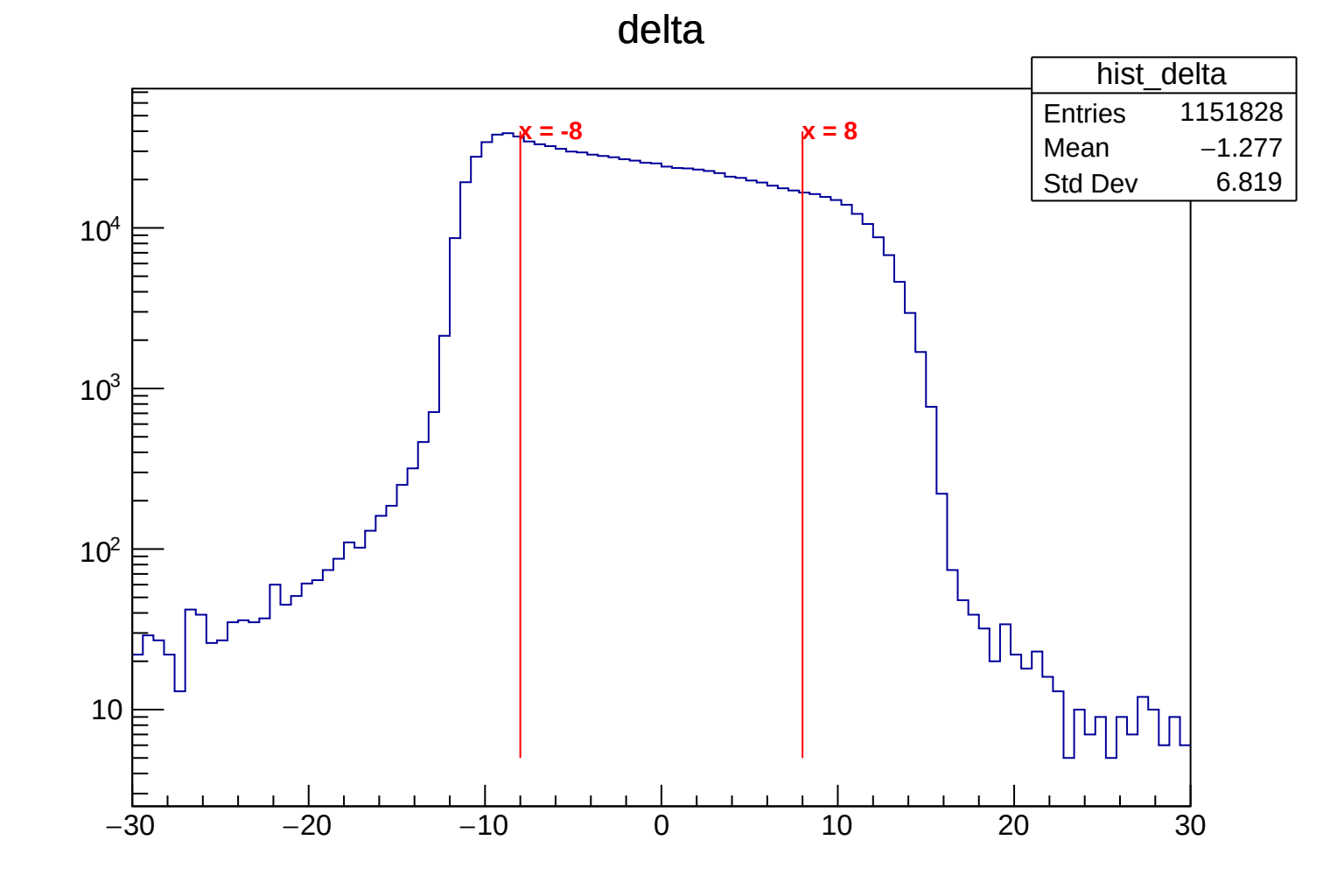
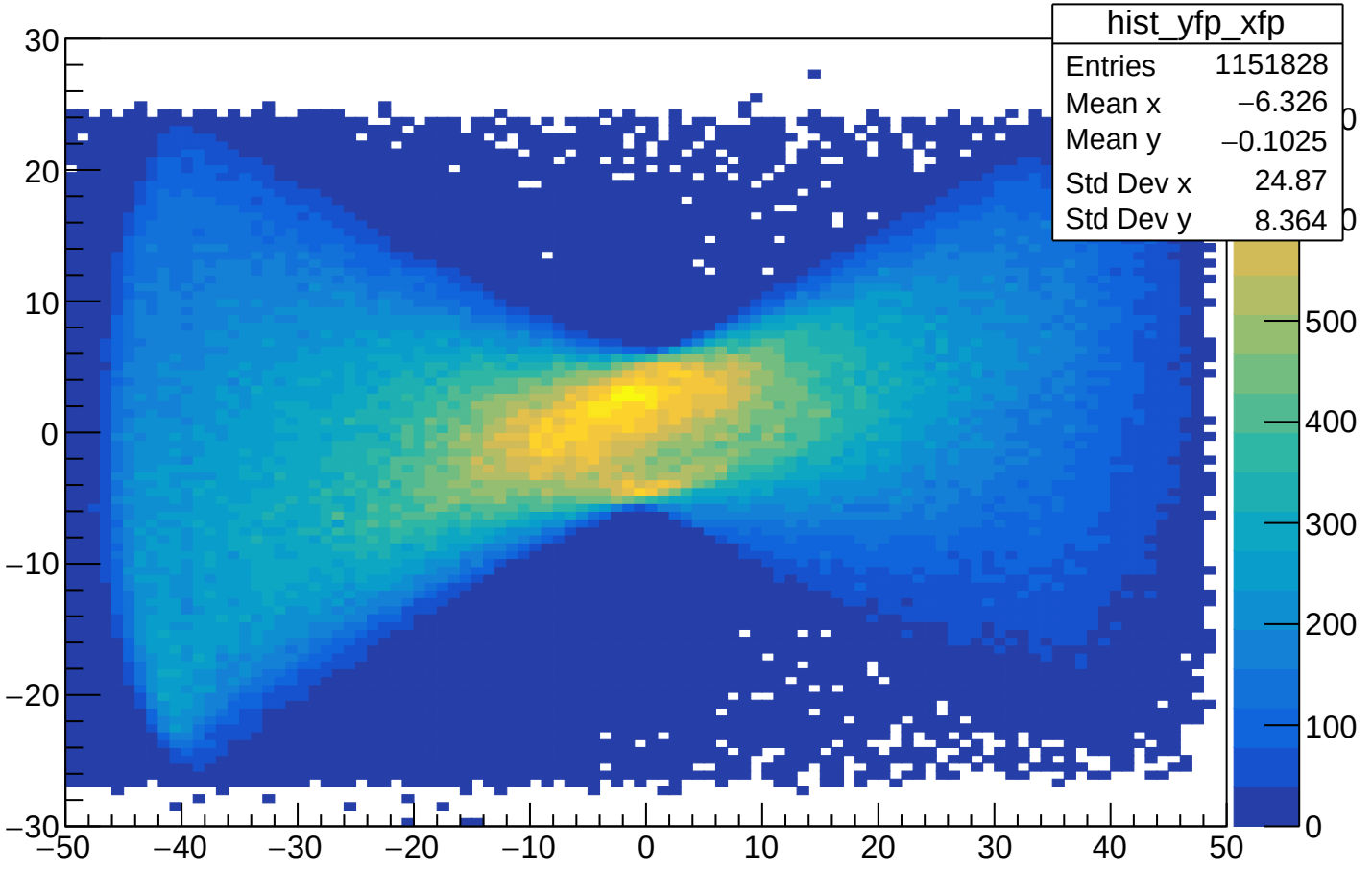
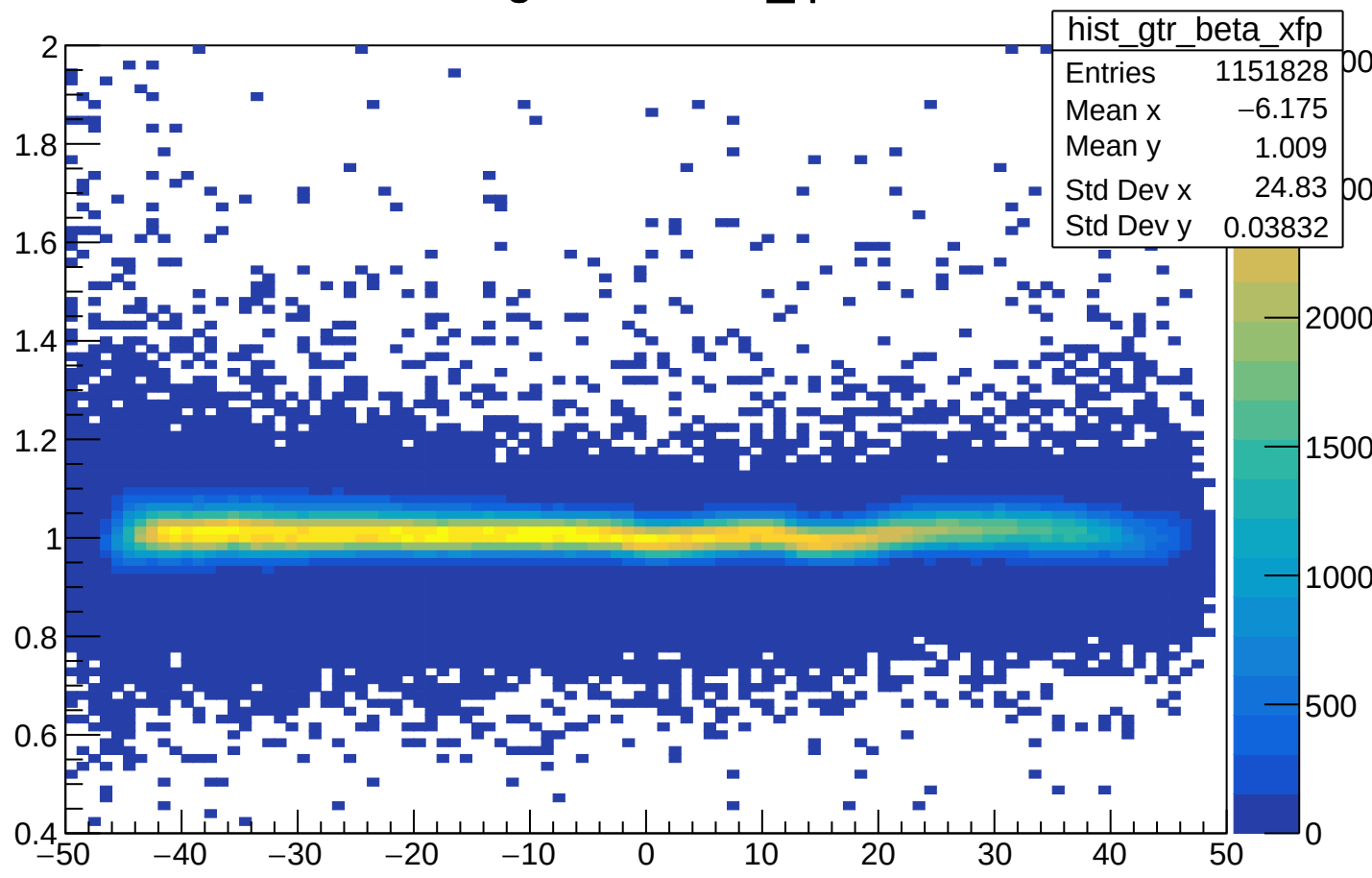

H.gtr.beta
Entries
Beta
Mean (no cuts) = 1.0096 ± 0.0000
Sigma (no cuts) = 0.0297 ± 0.0000
Mean (PID) = 1.0100 ± 0.0000
Sigma (PID) = 0.0289 ± 0.0000
Mean (PID & delta) = 1.0080 ± 0.0000
Sigma (PID & delta) = 0.0268 ± 0.0000
H.gtr.beta without cuts
Fit: H.gtr.beta without cuts
H.gtr.beta with PID cuts
Fit: H.gtr.beta with PID cuts
H.gtr.beta with PID and delta cuts
Fit: H.gtr.beta with PID and delta cuts

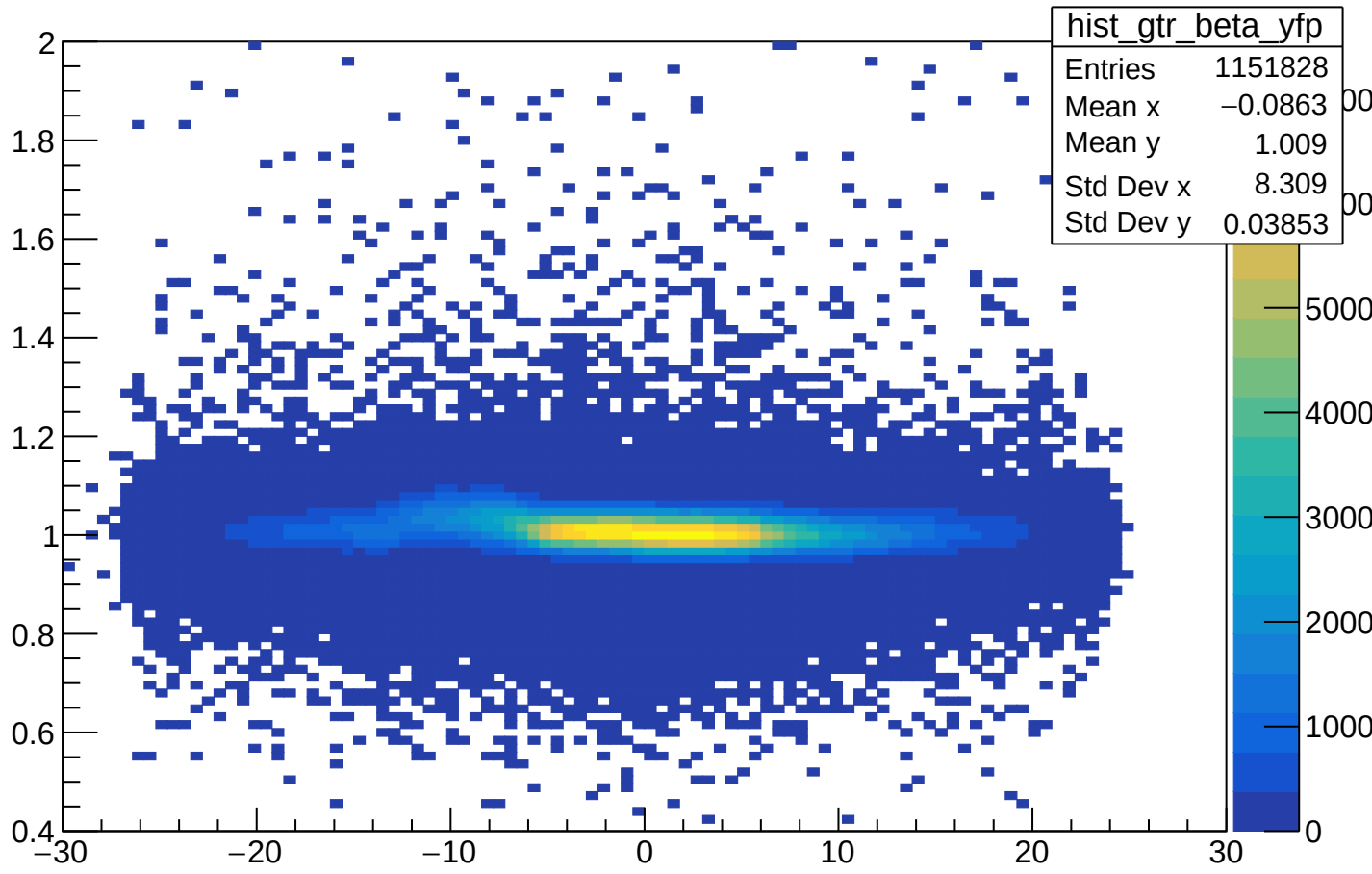

etottracknorm
hist_etottracknorm
Entries 1151828
Mean 0.7038
Std Dev 0.3545
x = 0.7
10^6
10^5
10^4
10^3
10^2
10
1
0
1
2
3
4
5
6
7
8

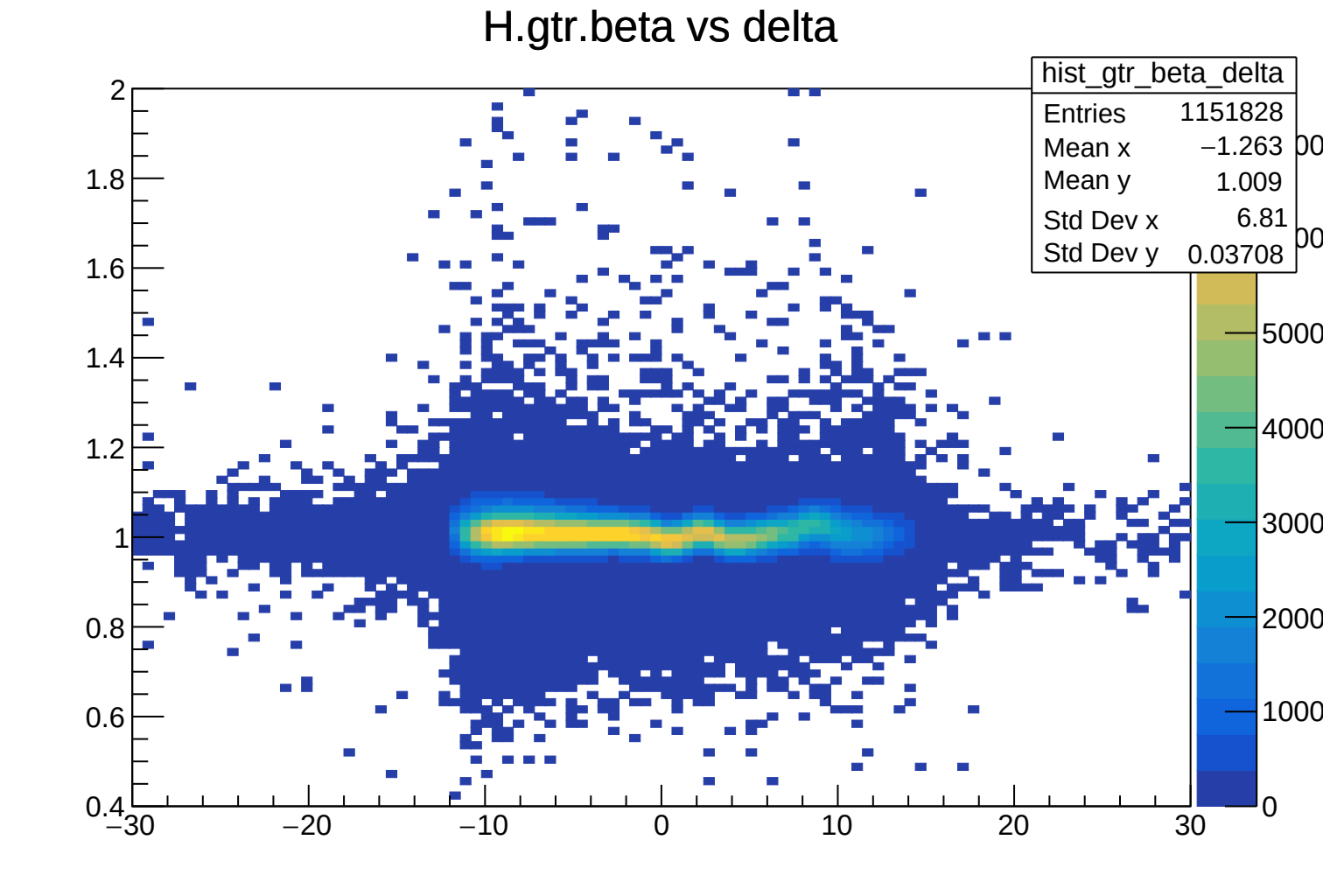

npeSum
x = 0.7
hist_npeSum
Entries 1151828
Mean 8.597
Std Dev 5.691
10^5
10^4
10^3
10^2
10
1
0
10
20
30
40
50
60
70

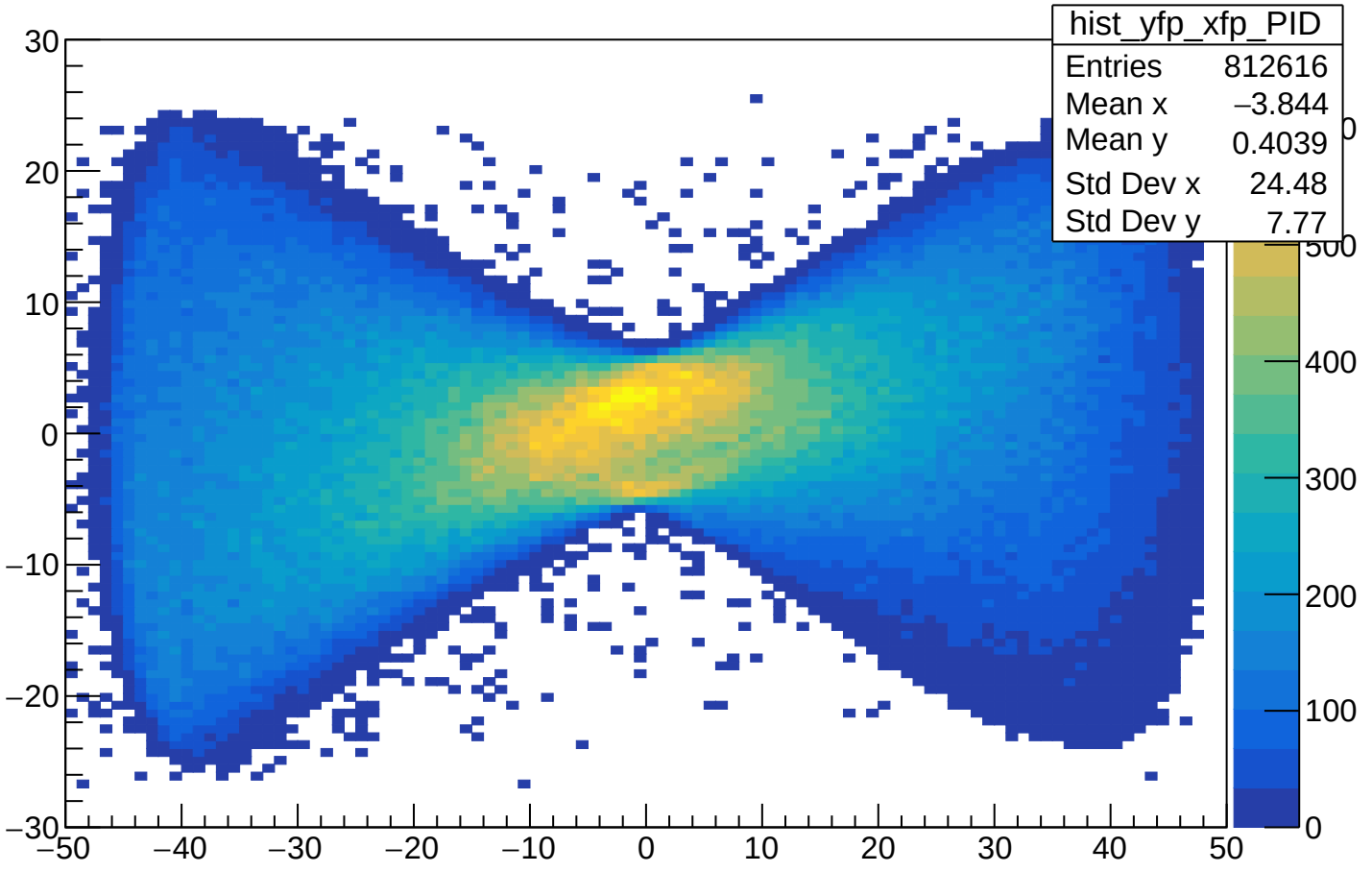

delta
hist_delta
Entries 1151828
Mean −1.277
Std Dev 6.819
x = -8
x = 8
10^4
10^3
10^2
10
−30
−20
−10
0
10
20
30

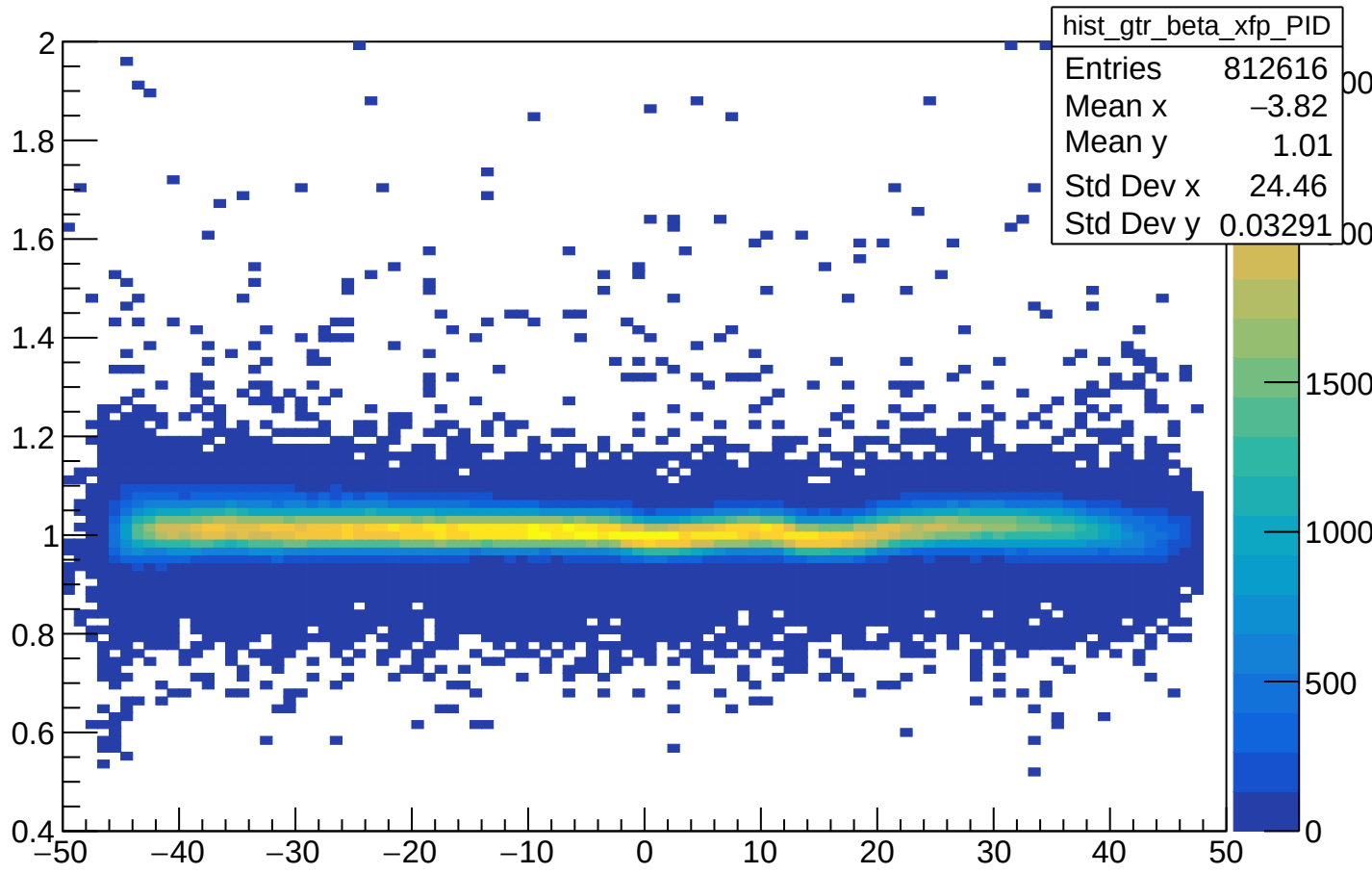

focal plane
hist_yfp_xfp
Entries 1151828
Mean x −6.326
Mean y −0.1025
Std Dev x 24.87
Std Dev y 8.364
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
500
400
300
200
100
0

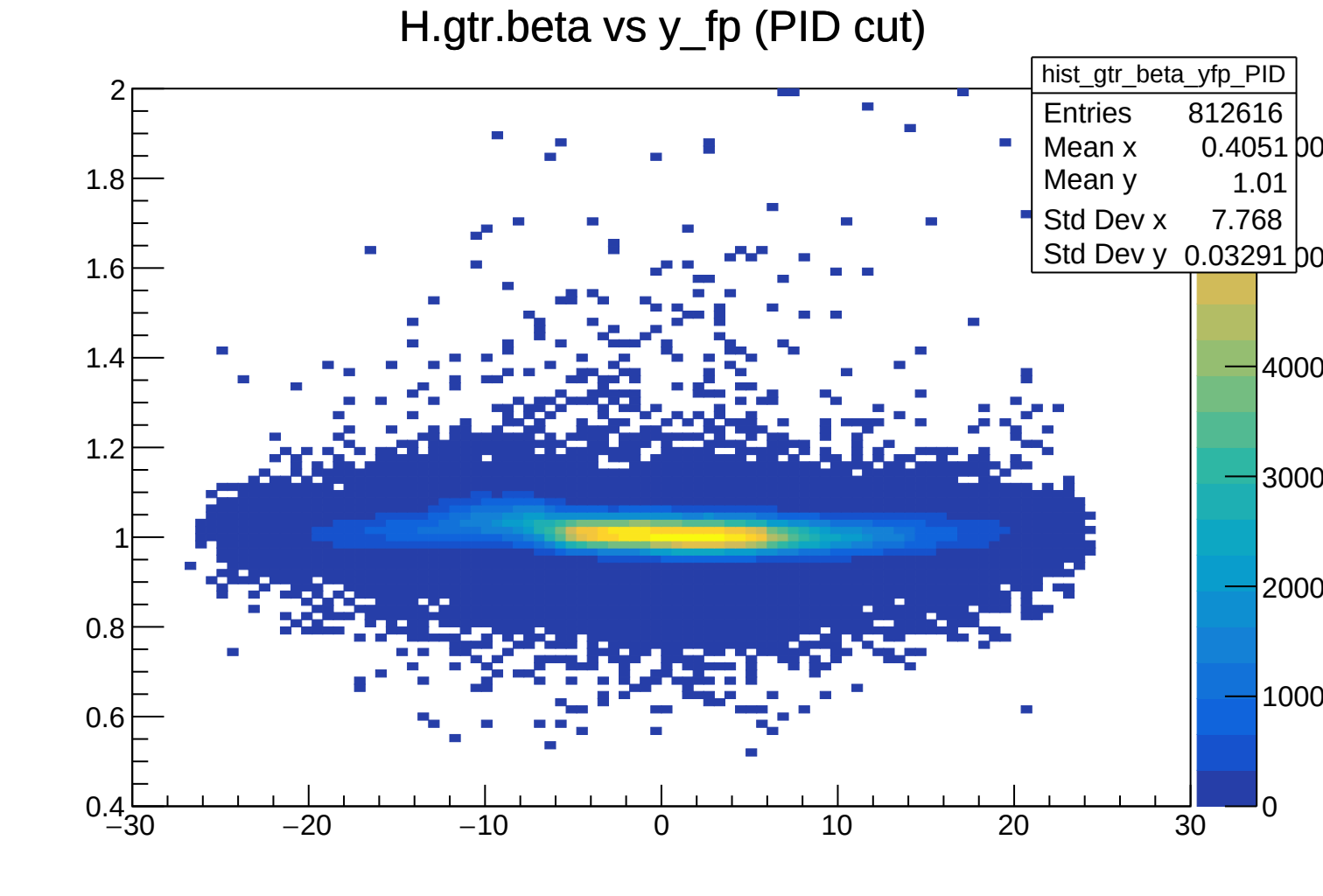

H.gtr.beta vs x_fp
hist_gtr_beta_xfp
Entries 1151828
Mean x −6.175
Mean y 1.009
Std Dev x 24.83
Std Dev y 0.03832
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−50
−40
−30
−20
−10
0
10
20
30
40
50
2000
1500
1000
500
0

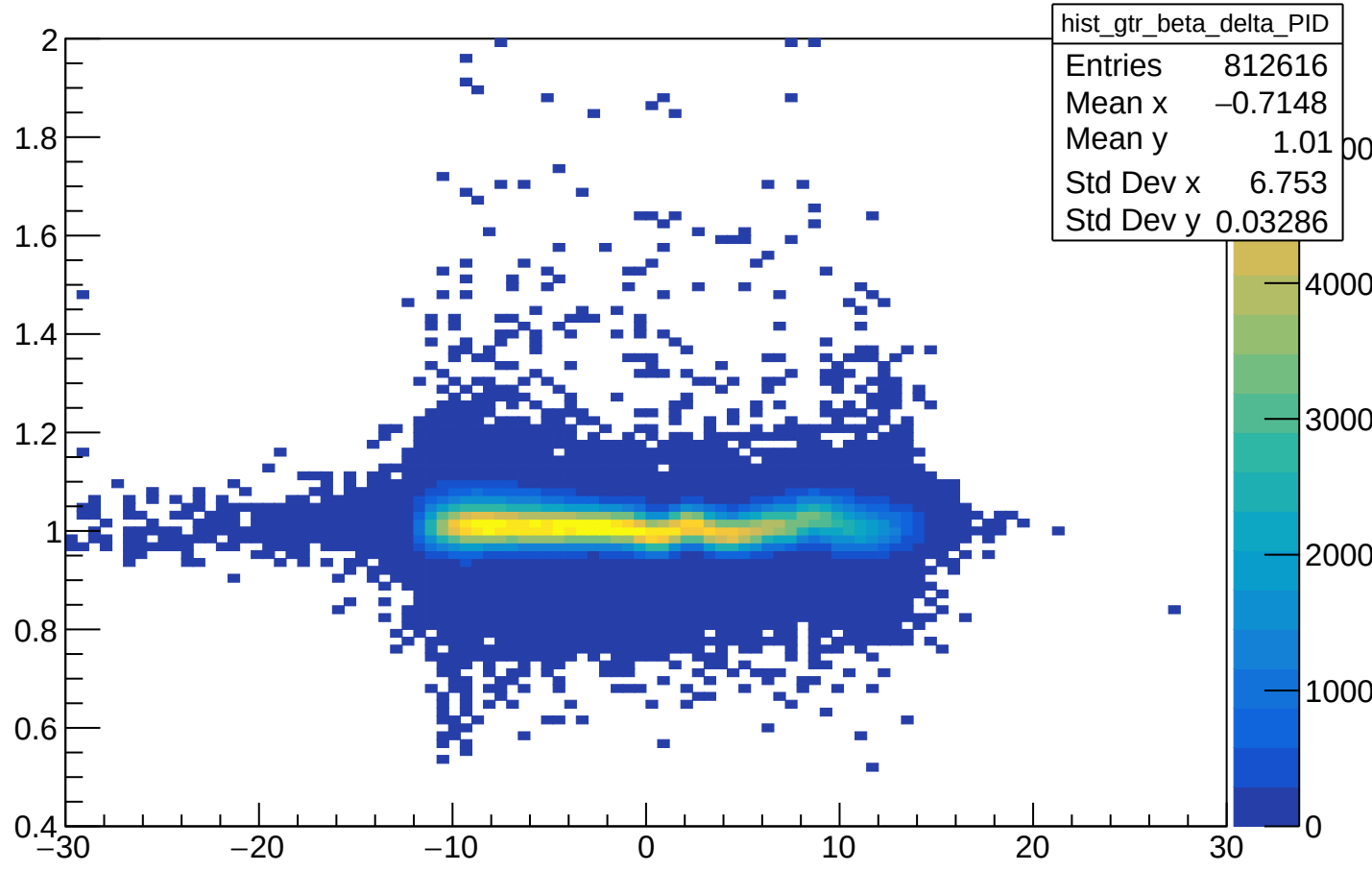

H.gtr.beta vs y_fp
hist_gtr_beta_yfp
Entries 1151828
Mean x −0.0863
Mean y 1.009
Std Dev x 8.309
Std Dev y 0.03853
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
5000
4000
3000
2000
1000
0

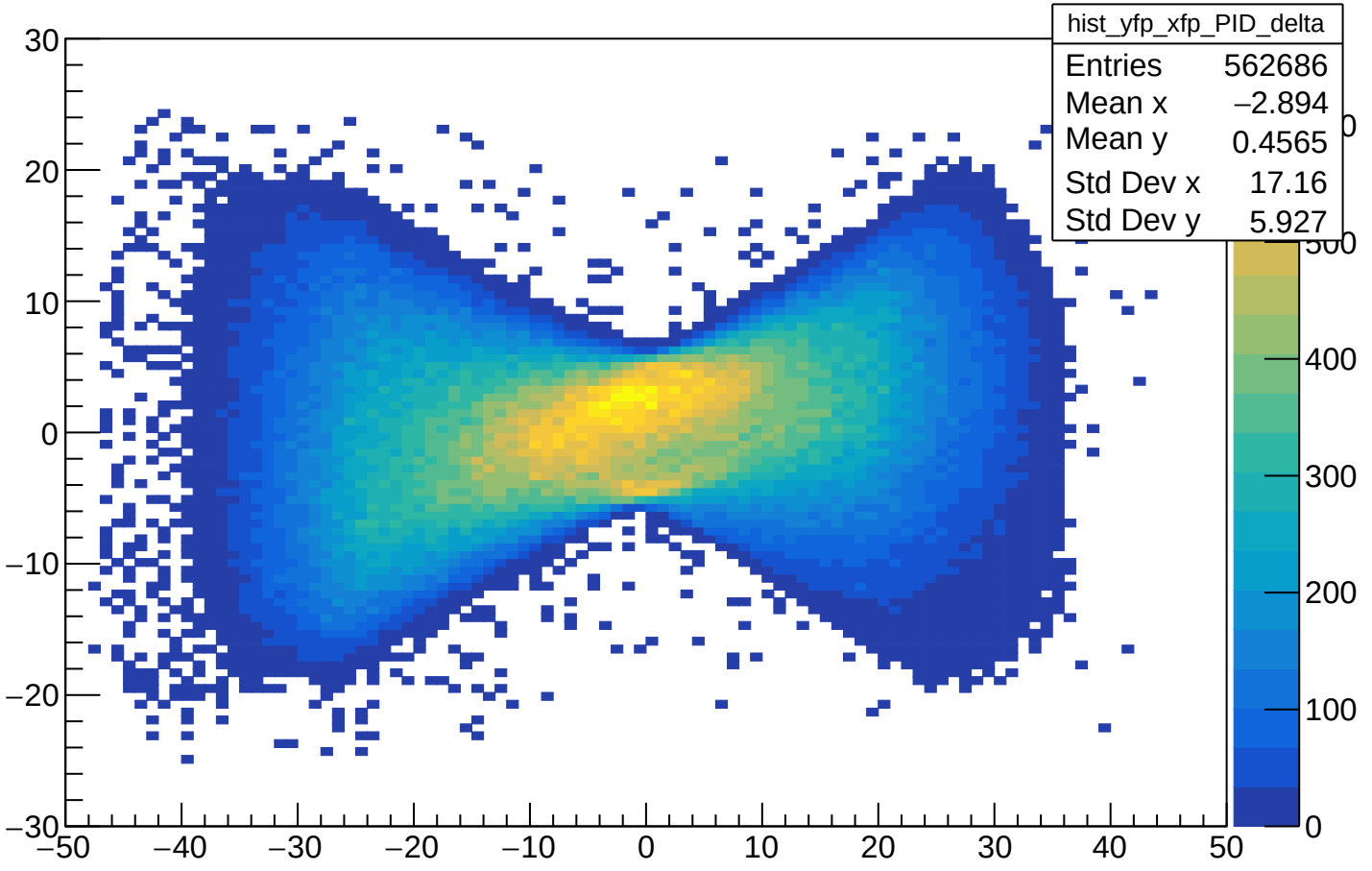

H.gtr.beta vs delta
hist_gtr_beta_delta
Entries 1151828
Mean x −1.263
Mean y 1.009
Std Dev x 6.81
Std Dev y 0.03708
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
5000
4000
3000
2000
1000
0

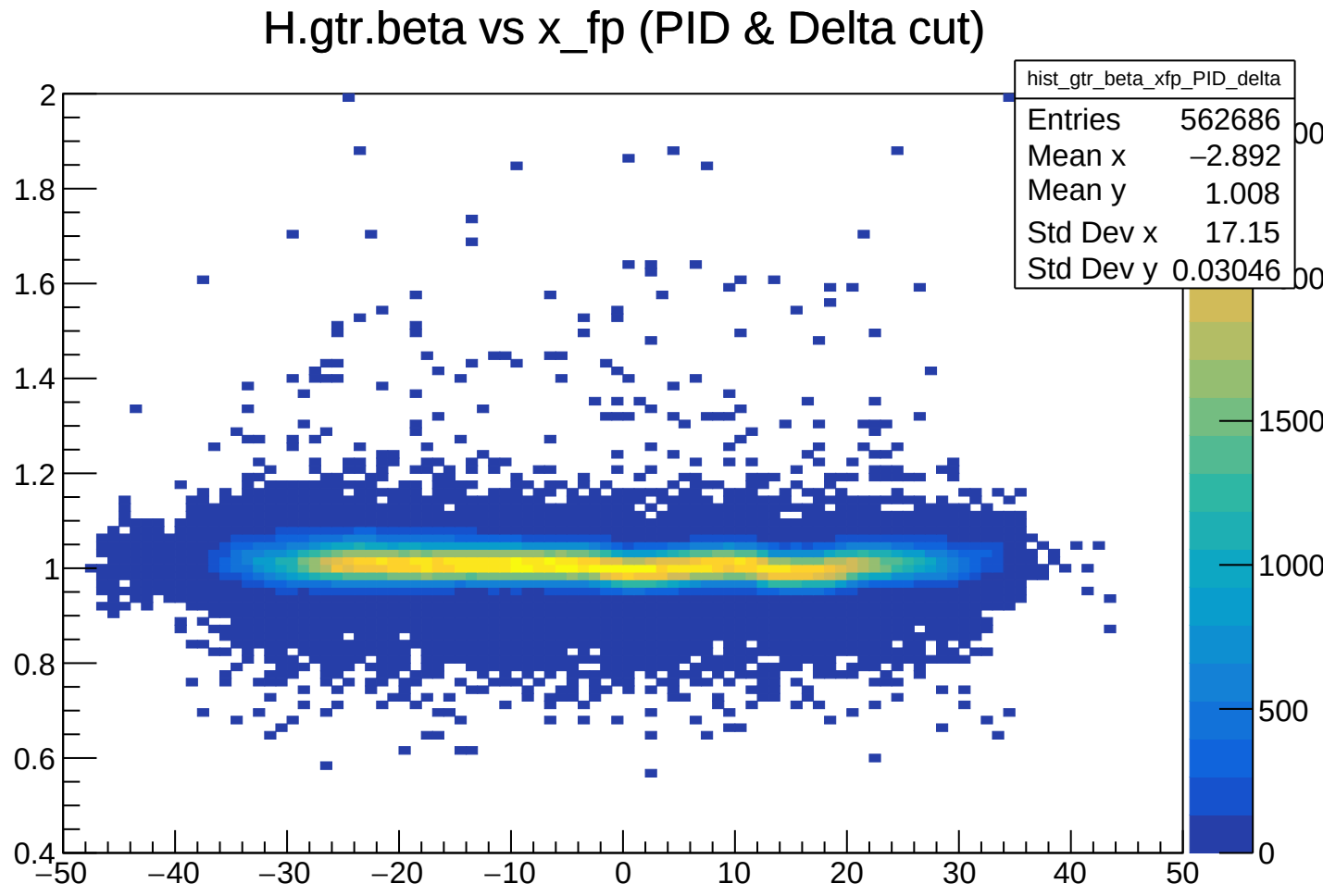

focal plane (PID cut)
hist_yfp_xfp_PID
Entries 812616
Mean x −3.844
Mean y 0.4039
Std Dev x 24.48
Std Dev y 7.77
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
500
400
300
200
100
0

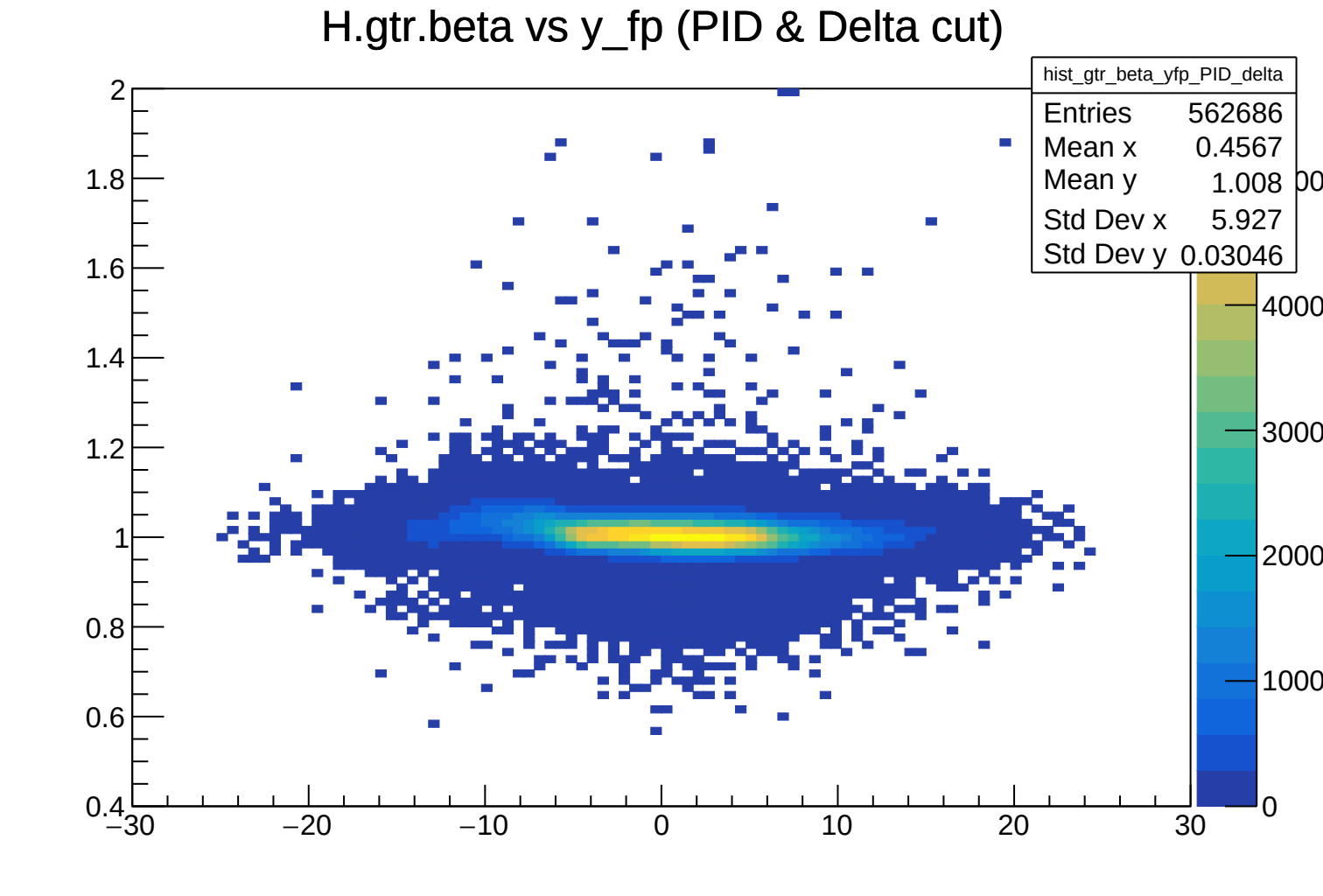

H.gtr.beta vs x_fp (PID cut)
hist_gtr_beta_xfp_PID
Entries 812616
Mean x −3.82
Mean y 1.01
Std Dev x 24.46
Std Dev y 0.03291
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−50
−40
−30
−20
−10
0
10
20
30
40
50
1500
1000
500
0

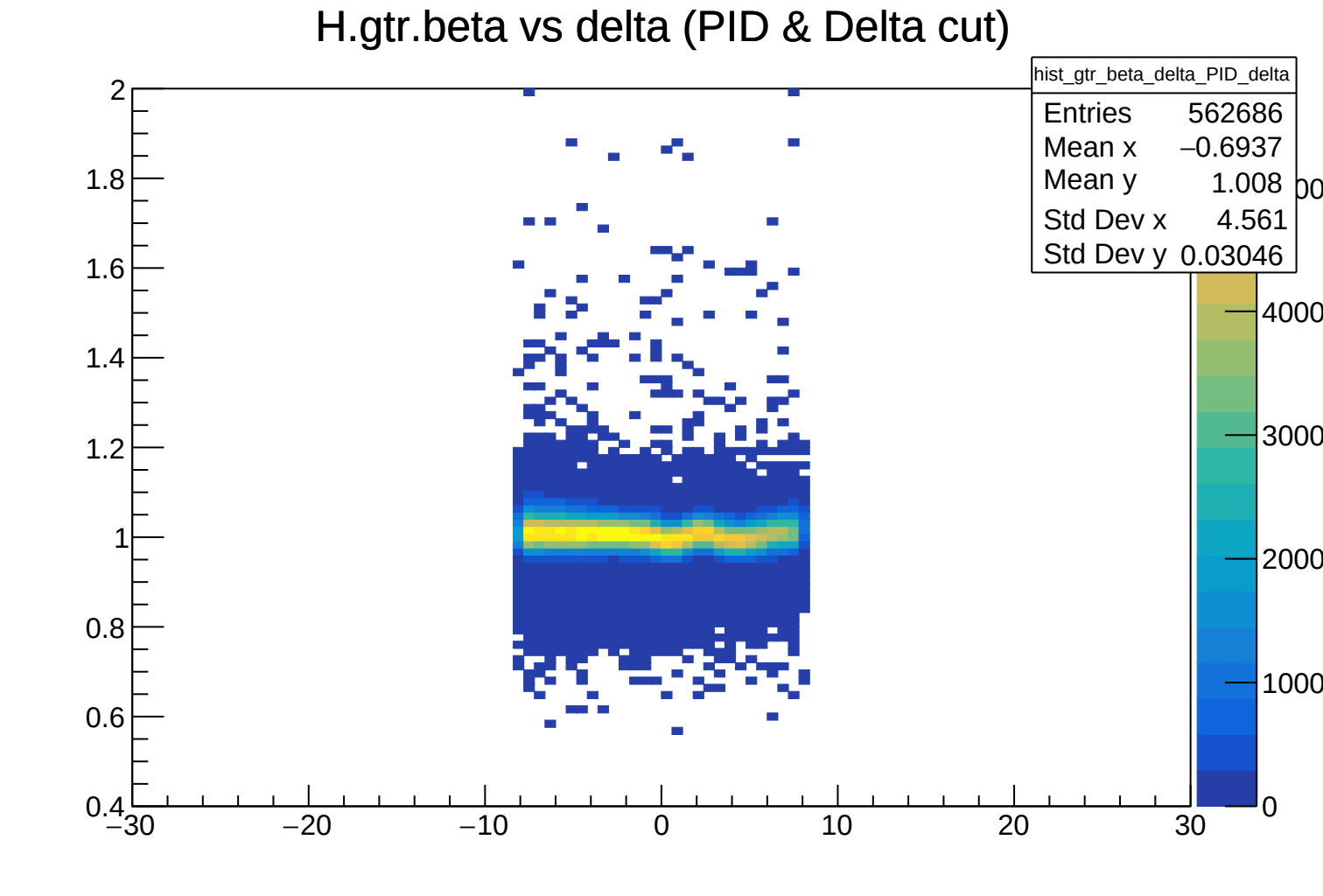

H.gtr.beta vs y_fp (PID cut)
hist_gtr_beta_yfp_PID
Entries 812616
Mean x 0.4051
Mean y 1.01
Std Dev x 7.768
Std Dev y 0.03291
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
4000
3000
2000
1000
0


H.gtr.beta vs delta (PID cut)
hist_gtr_beta_delta_PID
Entries 812616
Mean x −0.7148
Mean y 1.01
Std Dev x 6.753
Std Dev y 0.03286
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 & Delta cut)
hist_yfp_xfp_PID_delta
Entries 562686
Mean x −2.894
Mean y 0.4565
Std Dev x 17.16
Std Dev y 5.927
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 562686
Mean x −2.892
Mean y 1.008
Std Dev x 17.15
Std Dev y 0.03046
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
1500
1000
500
0


H.gtr.beta vs y_fp (PID & Delta cut)
hist_gtr_beta_yfp_PID_delta
Entries 562686
Mean x 0.4567
Mean y 1.008
Std Dev x 5.927
Std Dev y 0.03046
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 562686
Mean x −0.6937
Mean y 1.008
Std Dev x 4.561
Std Dev y 0.03046
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