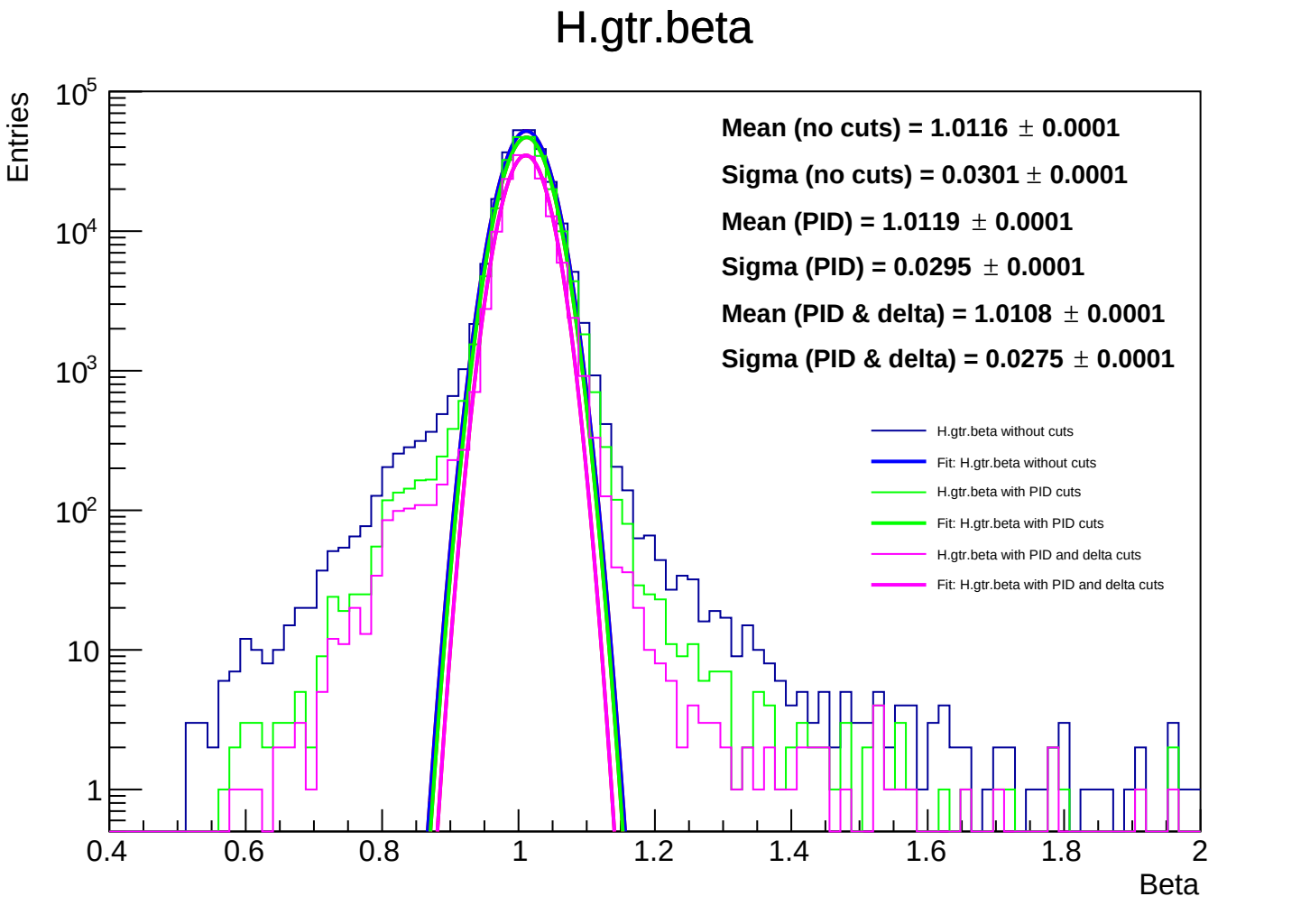
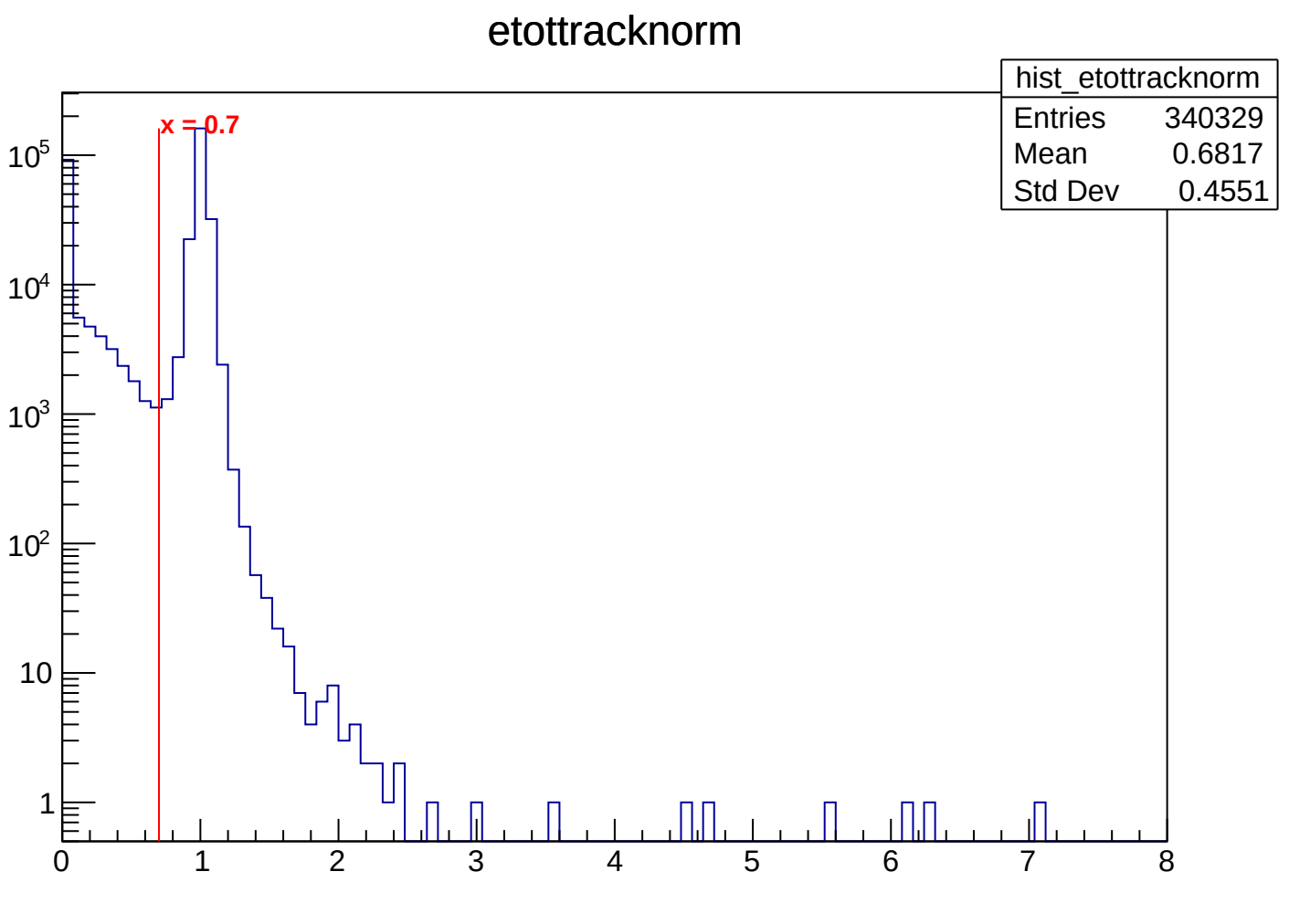
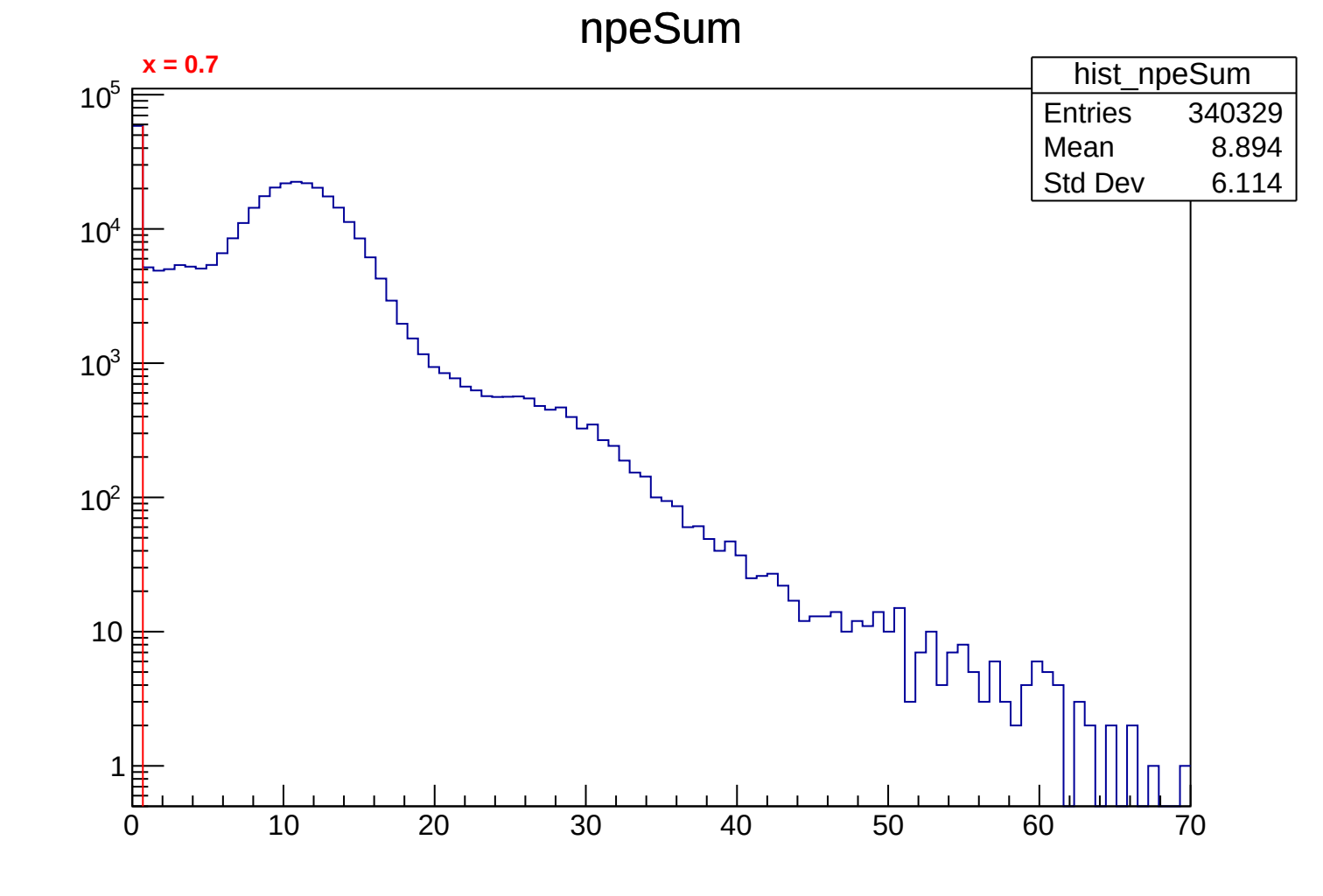
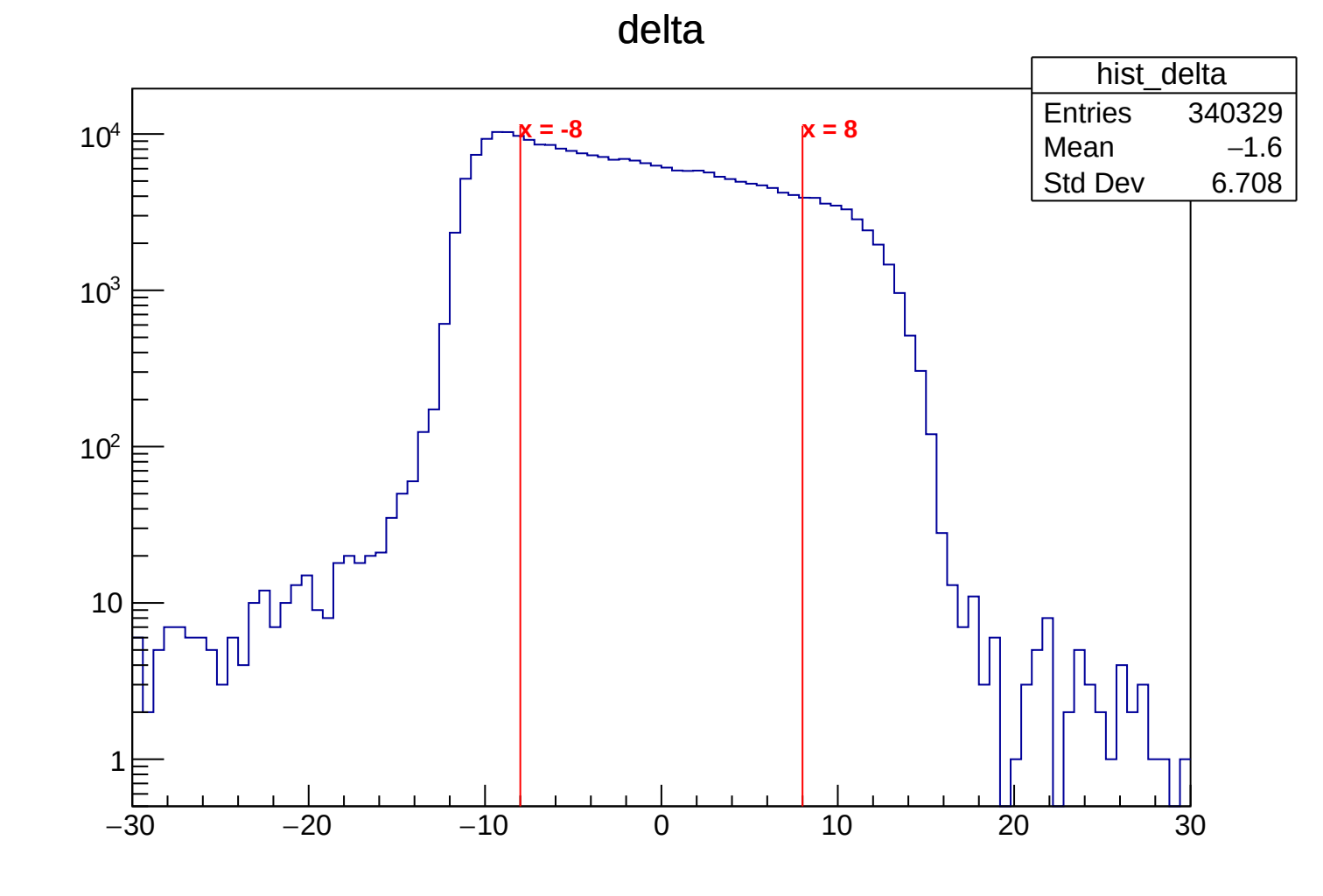
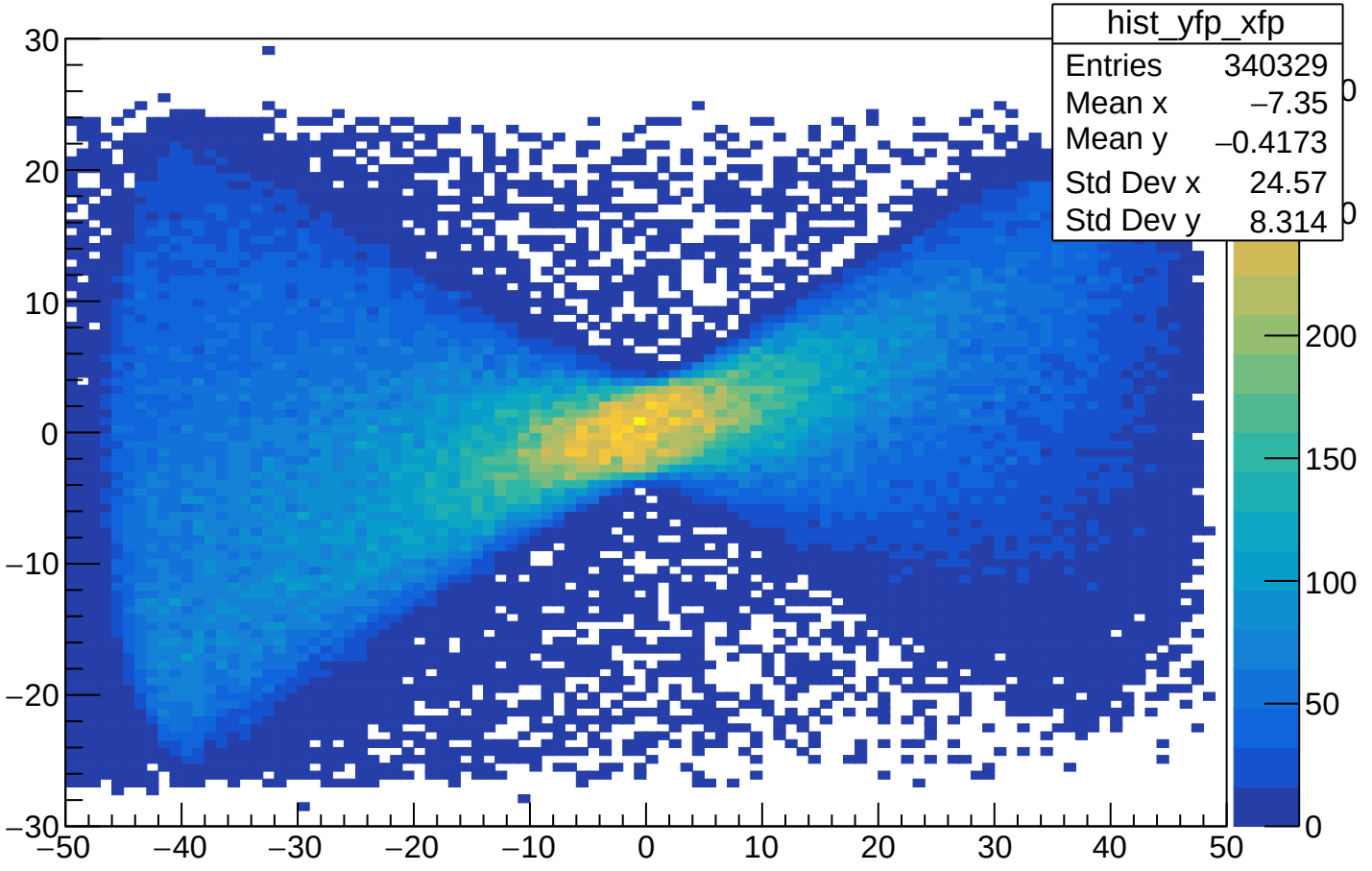
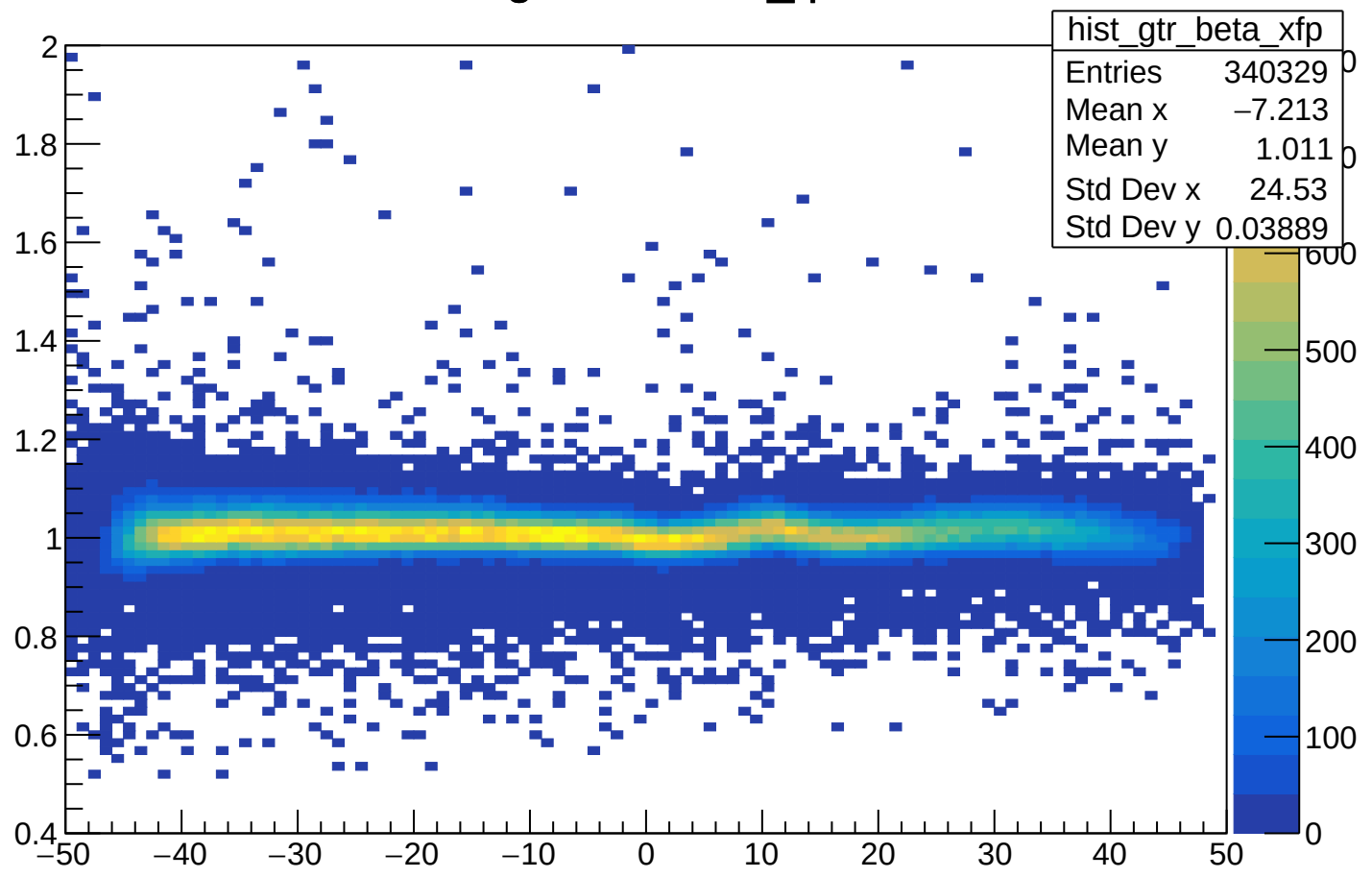

H.gtr.beta
Entries
Beta
Mean (no cuts) = 1.0116 ± 0.0001
Sigma (no cuts) = 0.0301 ± 0.0001
Mean (PID) = 1.0119 ± 0.0001
Sigma (PID) = 0.0295 ± 0.0001
Mean (PID & delta) = 1.0108 ± 0.0001
Sigma (PID & delta) = 0.0275 ± 0.0001
H.gtr.beta without cuts
Fit: H.gtr.beta without cuts
H.gtr.beta with PID cuts
Fit: H.gtr.beta with PID cuts
H.gtr.beta with PID and delta cuts
Fit: H.gtr.beta with PID and delta cuts

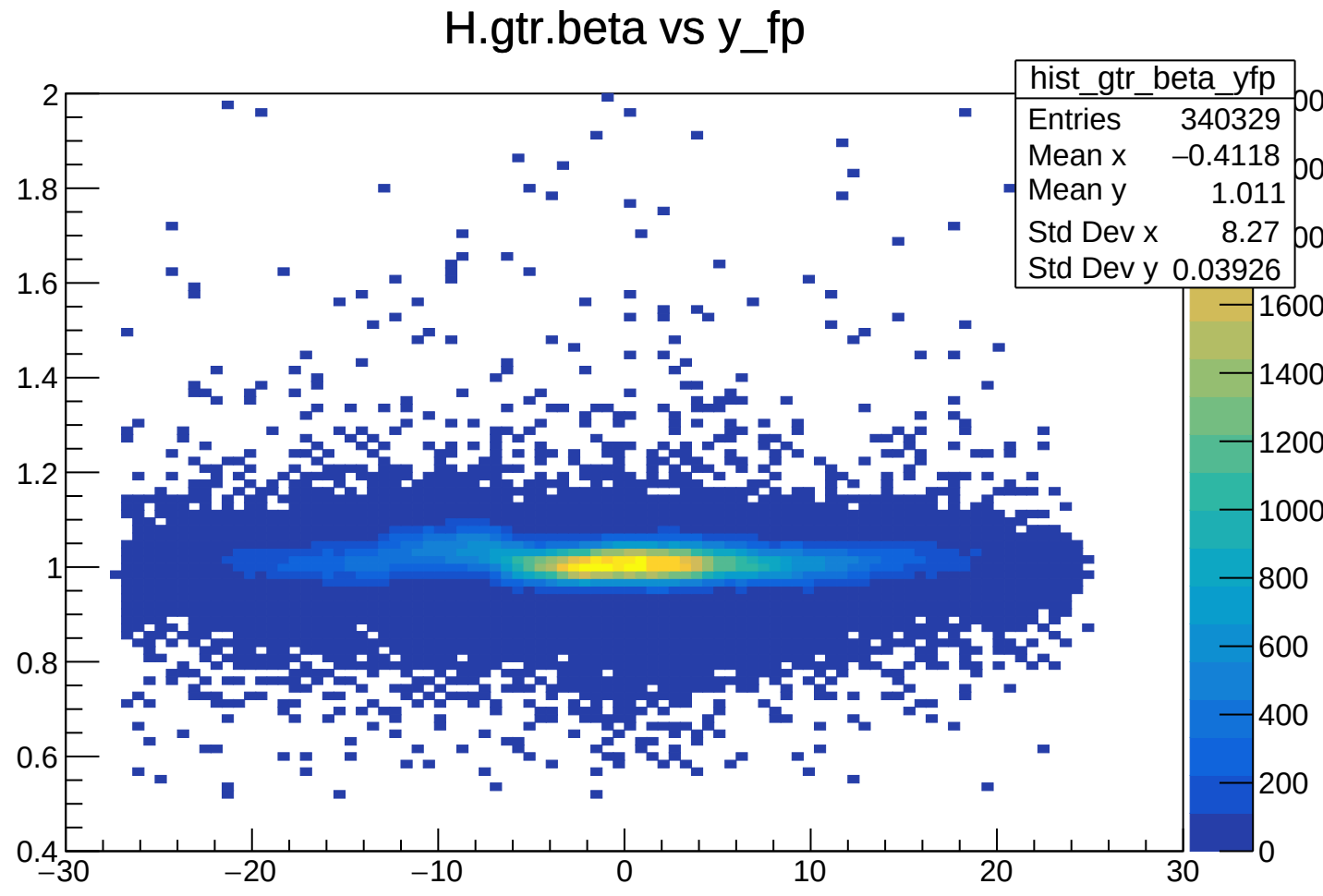

etottracknorm
hist_etottracknorm
Entries 340329
Mean 0.6817
Std Dev 0.4551
x = 0.7
10^5
10^4
10^3
10^2
10
1
0
1
2
3
4
5
6
7
8

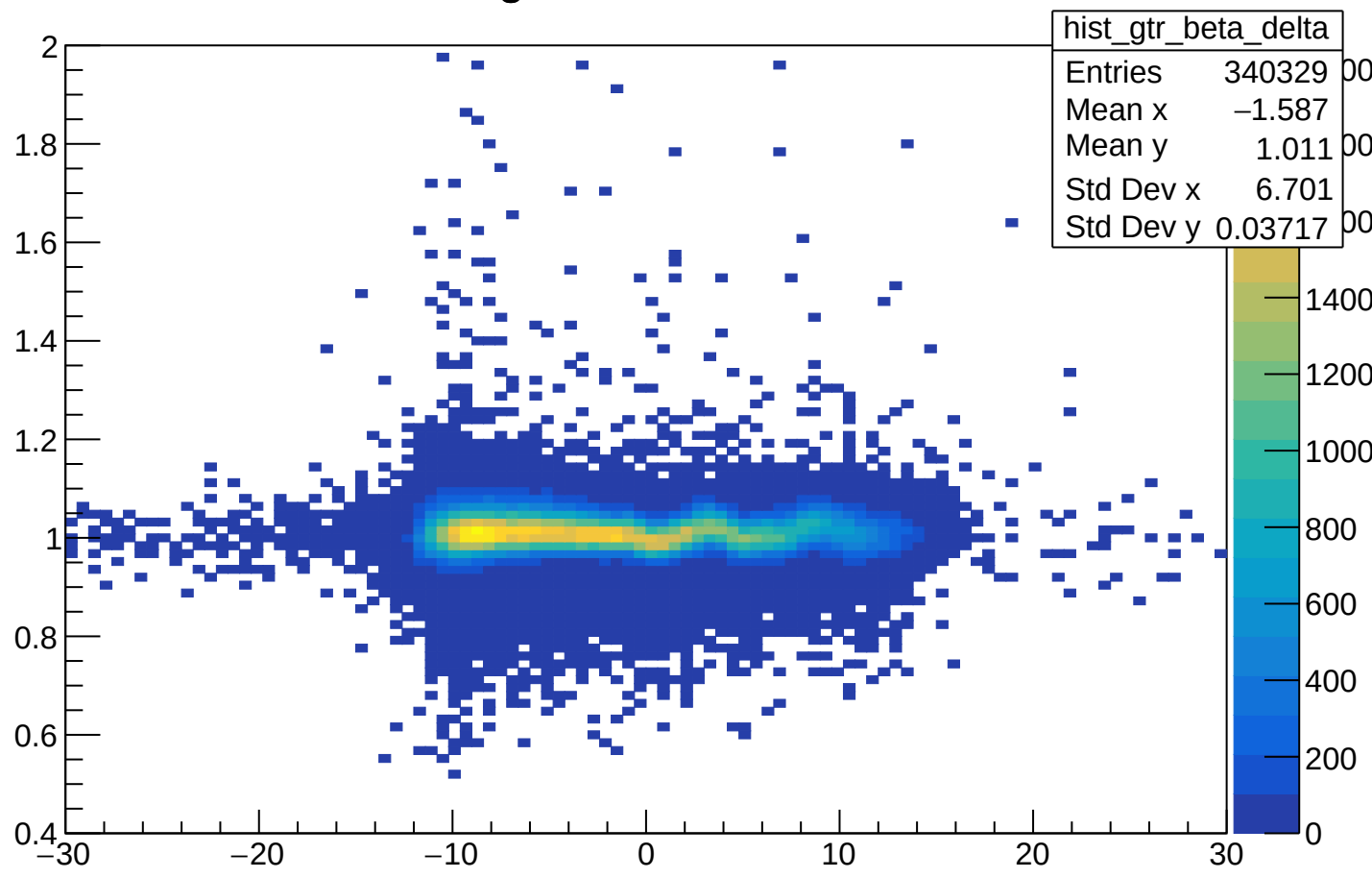

npeSum
x = 0.7
hist_npeSum
Entries 340329
Mean 8.894
Std Dev 6.114
10^5
10^4
10^3
10^2
10
1
0
10
20
30
40
50
60
70

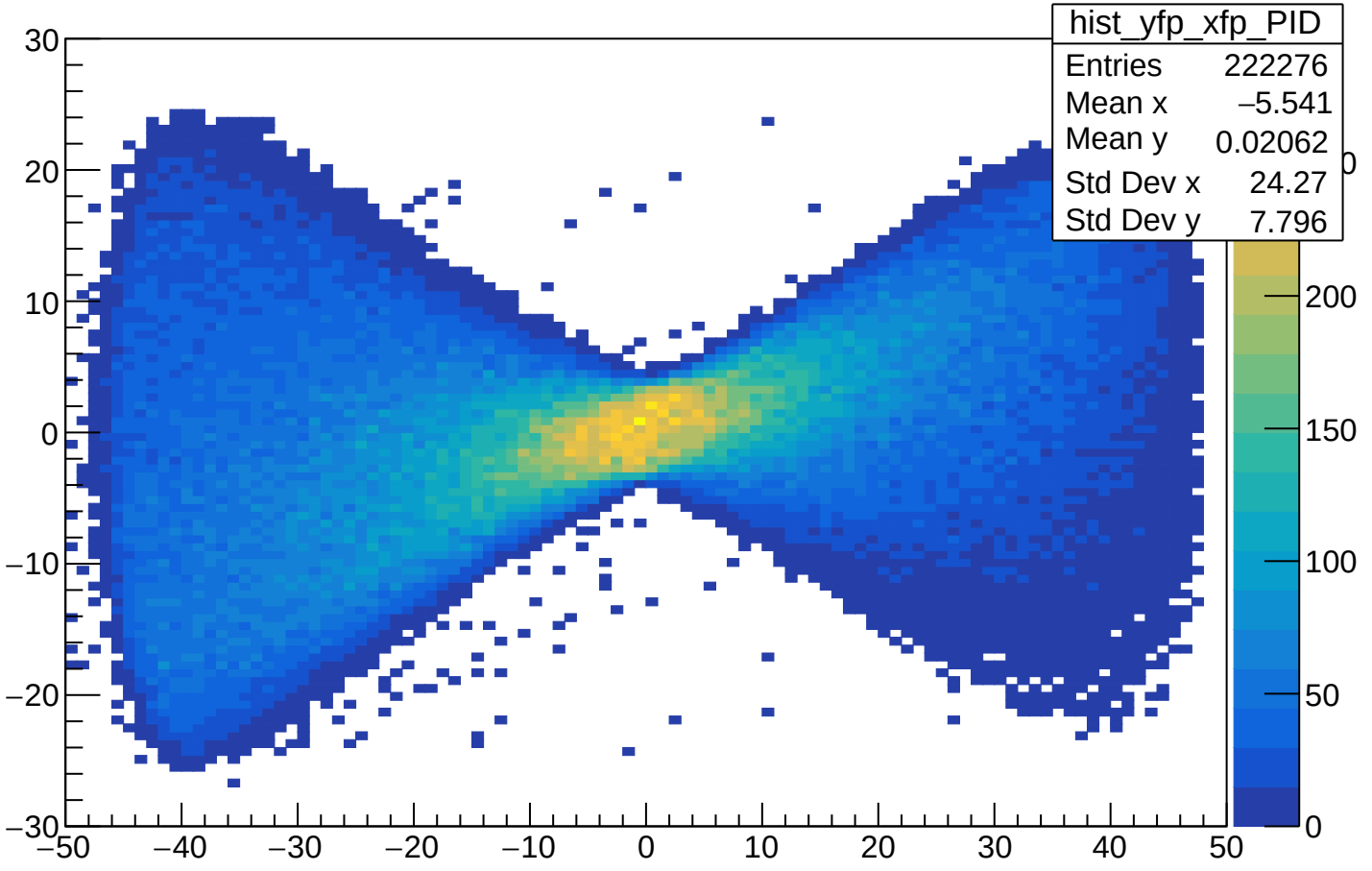

delta
hist_delta
Entries 340329
Mean –1.6
Std Dev 6.708
x = -8
x = 8
10^4
10^3
10^2
10
1
–30
–20
–10
0
10
20
30

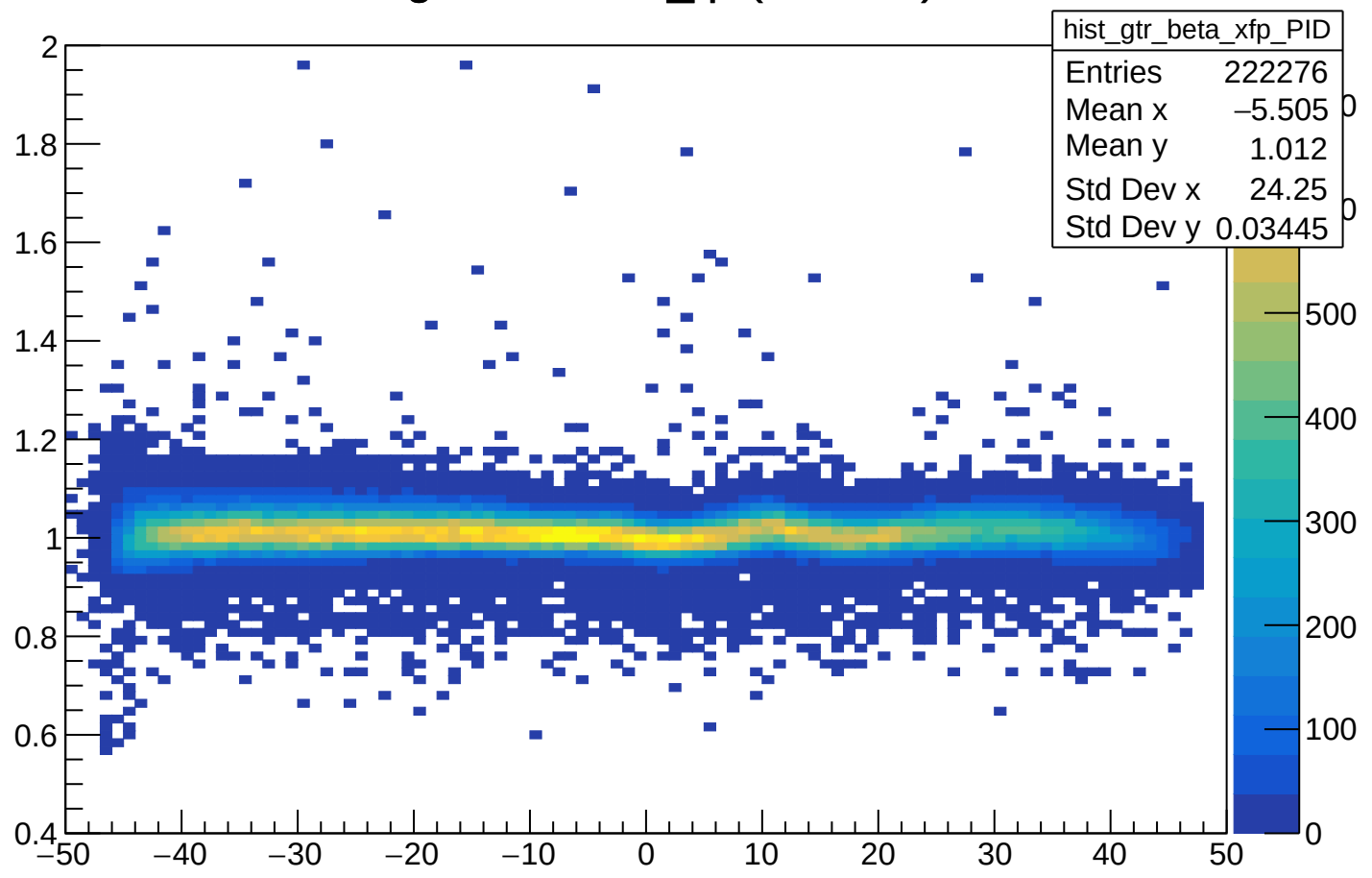

focal plane
hist_yfp_xfp
Entries 340329
Mean x −7.35
Mean y −0.4173
Std Dev x 24.57
Std Dev y 8.314
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
200
150
100
50
0

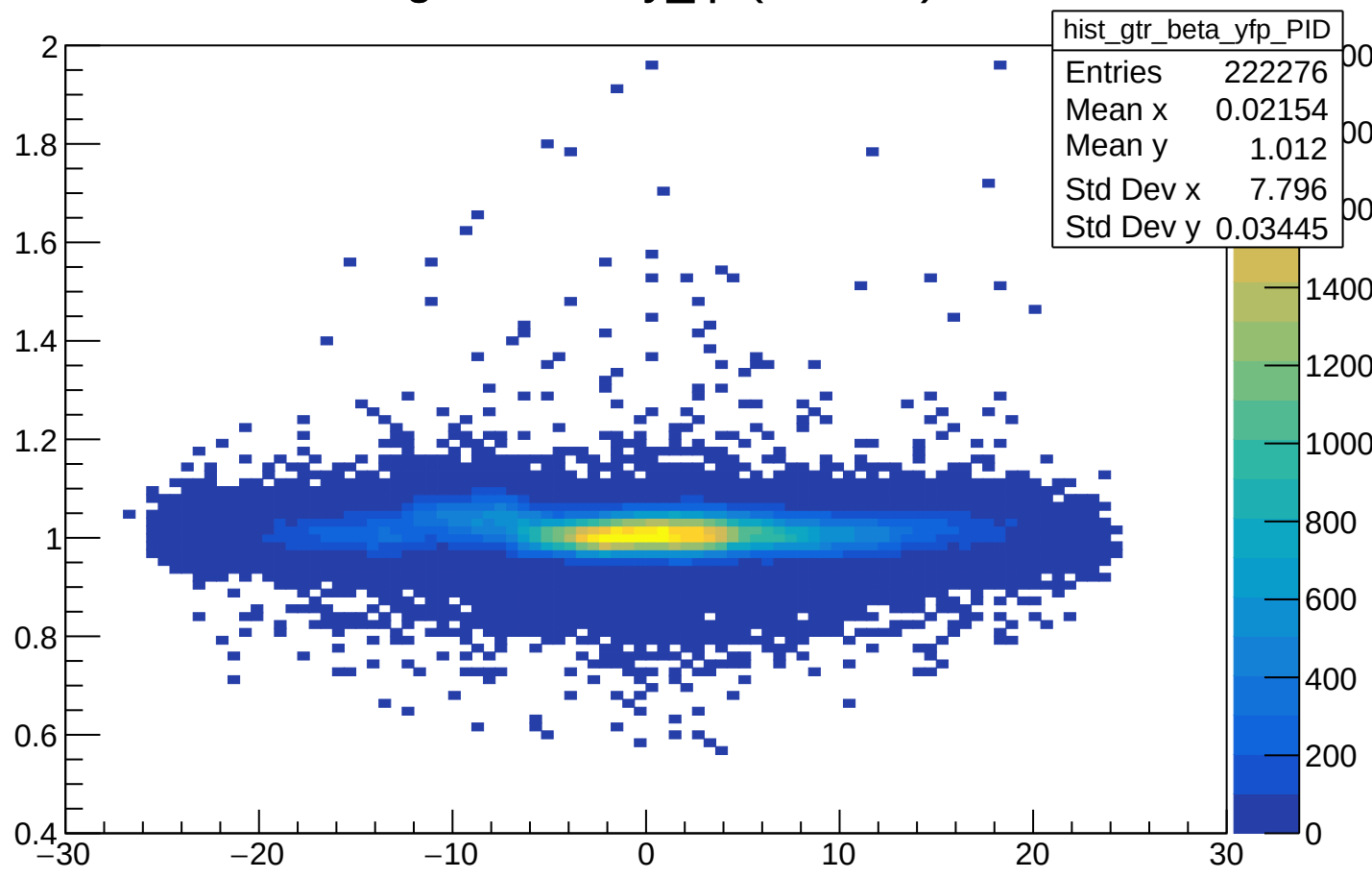

H.gtr.beta vs x_fp
hist_gtr_beta_xfp
Entries 340329
Mean x −7.213
Mean y 1.011
Std Dev x 24.53
Std Dev y 0.03889
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−50
−40
−30
−20
−10
0
10
20
30
40
50
600
500
400
300
200
100
0

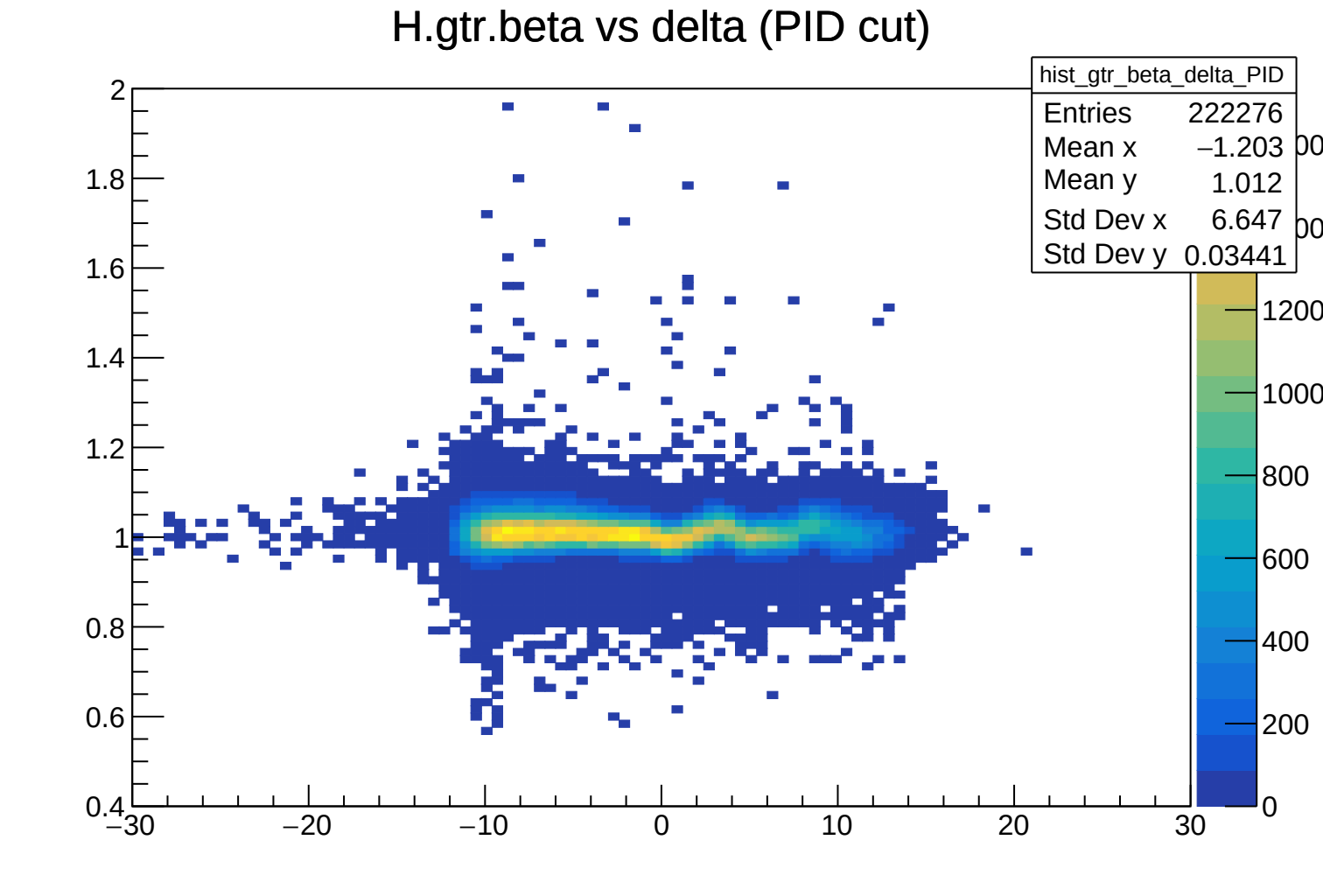

H.gtr.beta vs y_fp
hist_gtr_beta_yfp
Entries 340329
Mean x −0.4118
Mean y 1.011
Std Dev x 8.27
Std Dev y 0.03926
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
1600
1400
1200
1000
800
600
400
200
0

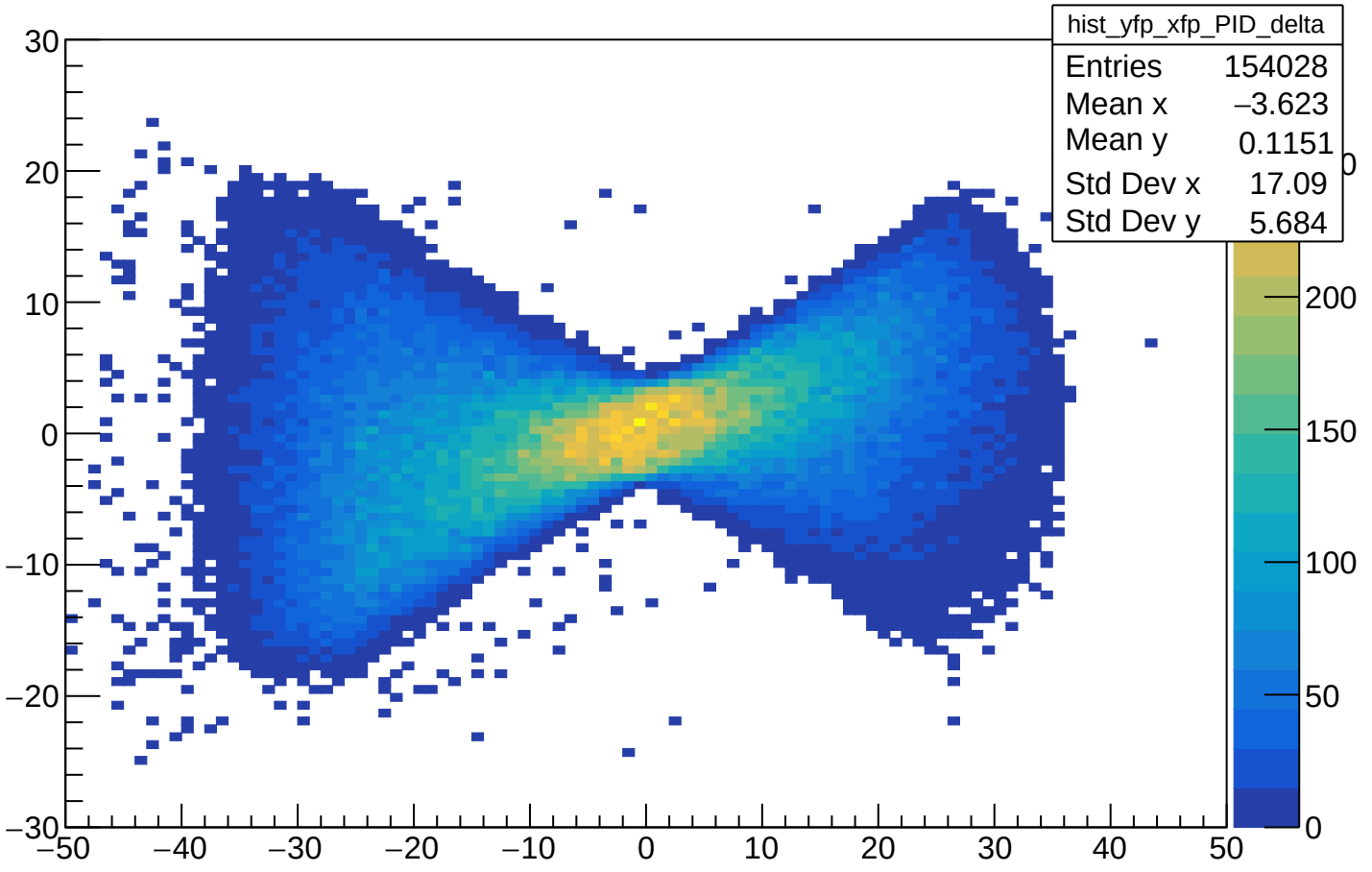

H.gtr.beta vs delta
hist_gtr_beta_delta
Entries 340329
Mean x −1.587
Mean y 1.011
Std Dev x 6.701
Std Dev y 0.03717
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
1400
1200
1000
800
600
400
200
0

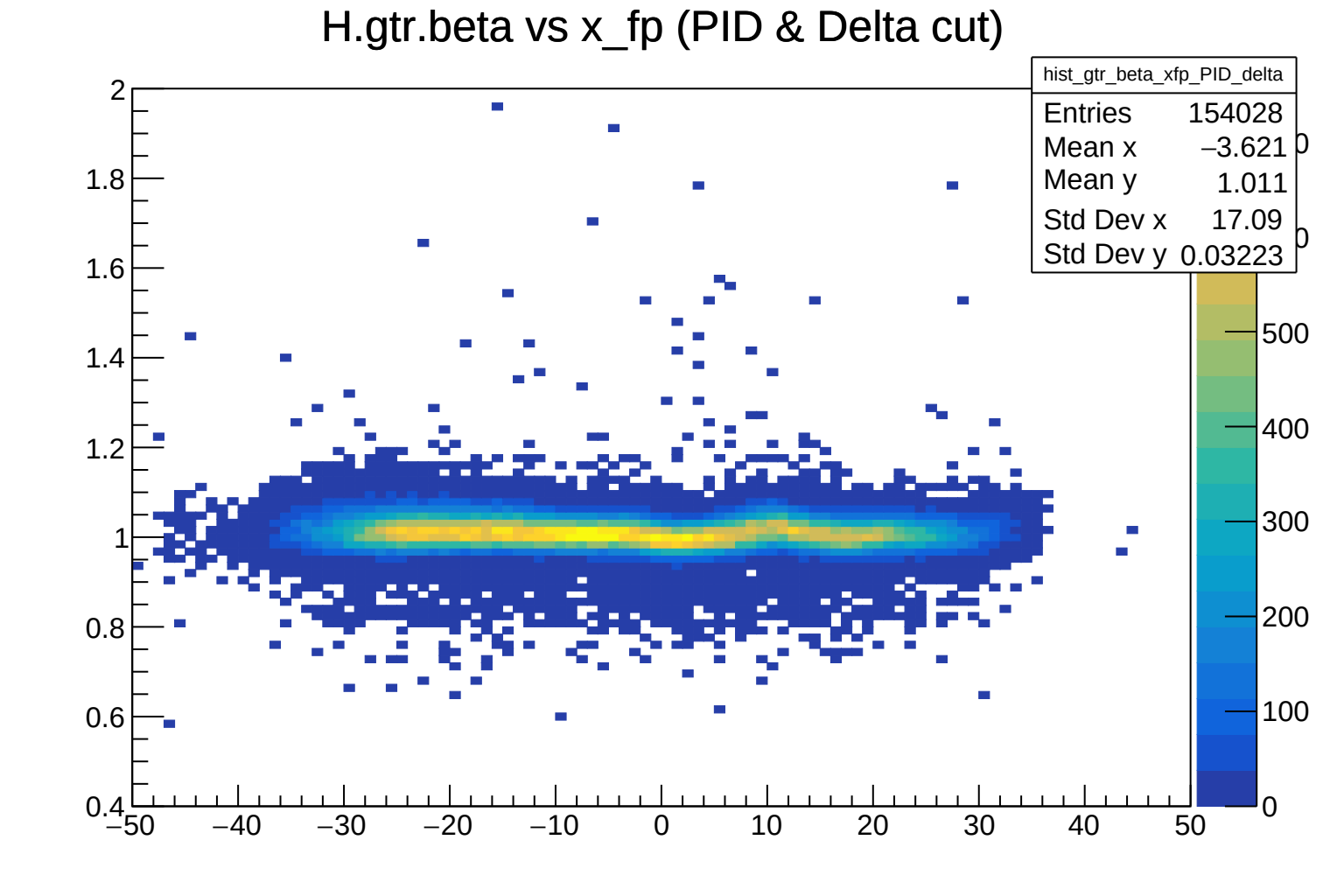

focal plane (PID cut)
hist_yfp_xfp_PID
Entries 222276
Mean x −5.541
Mean y 0.02062
Std Dev x 24.27
Std Dev y 7.796
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
200
150
100
50
0

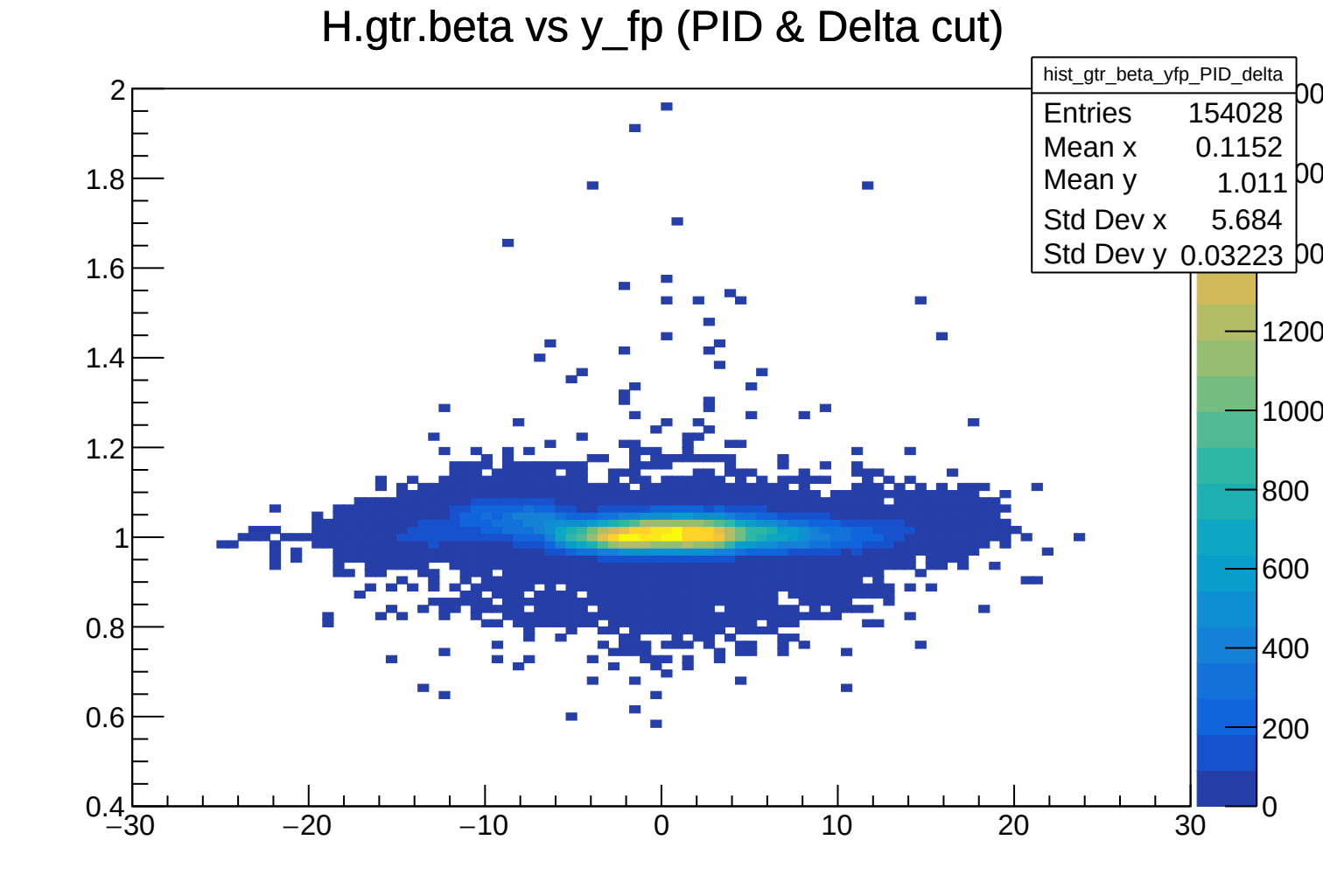

H.gtr.beta vs x_fp (PID cut)
hist_gtr_beta_xfp_PID
Entries 222276
Mean x −5.505
Mean y 1.012
Std Dev x 24.25
Std Dev y 0.03445
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−50
−40
−30
−20
−10
0
10
20
30
40
50
500
400
300
200
100
0

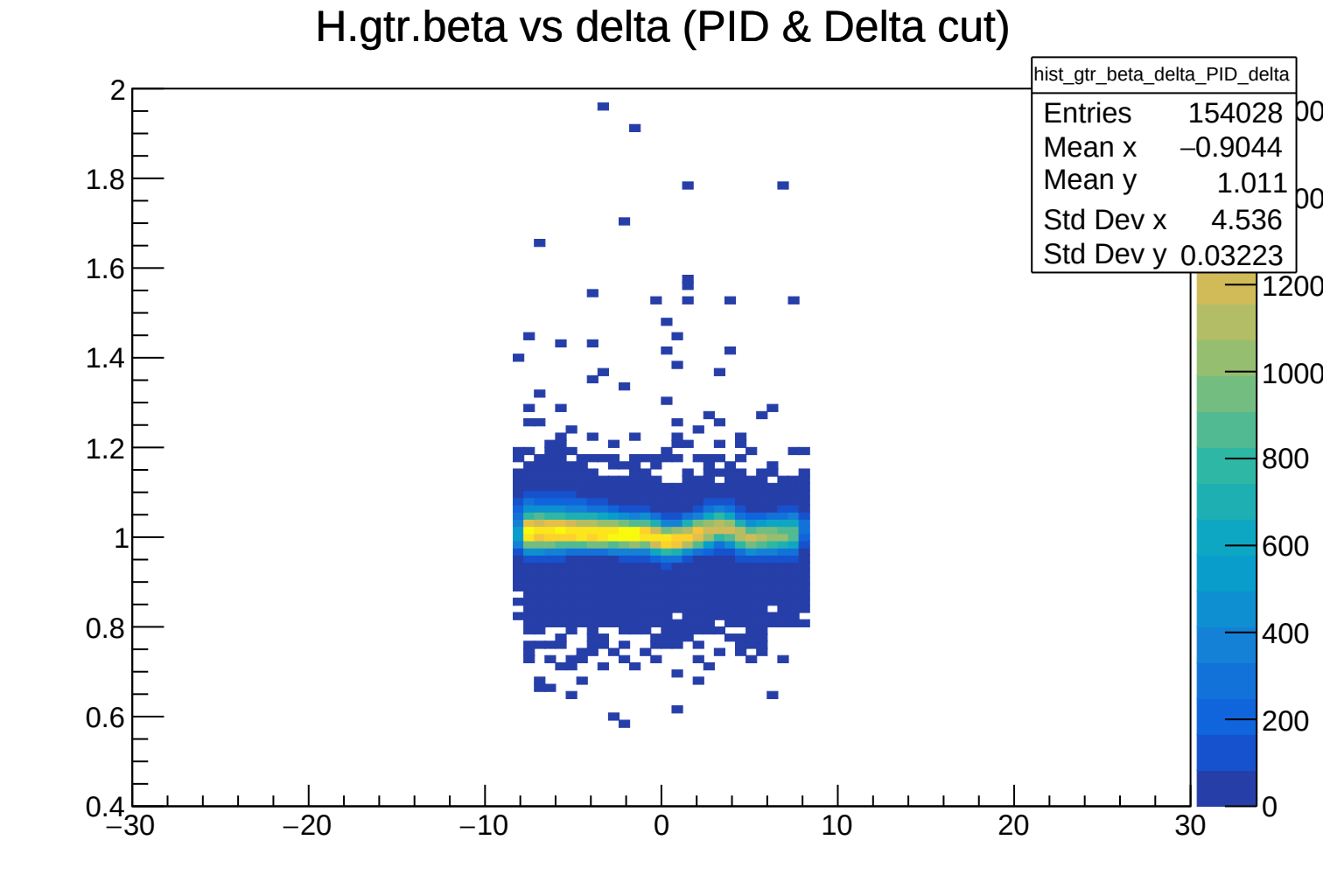

H.gtr.beta vs y_fp (PID cut)
hist_gtr_beta_yfp_PID
Entries 222276
Mean x 0.02154
Mean y 1.012
Std Dev x 7.796
Std Dev y 0.03445
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
1400
1200
1000
800
600
400
200
0


H.gtr.beta vs delta (PID cut)
hist_gtr_beta_delta_PID
Entries 222276
Mean x −1.203
Mean y 1.012
Std Dev x 6.647
Std Dev y 0.03441
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
800
600
400
200
0


focal plane (PID & Delta cut)
hist_yfp_xfp_PID_delta
Entries 154028
Mean x −3.623
Mean y 0.1151
Std Dev x 17.09
Std Dev y 5.684
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
200
150
100
50
0


H.gtr.beta vs x_fp (PID & Delta cut)
hist_gtr_beta_xfp_PID_delta
Entries 154028
Mean x −3.621
Mean y 1.011
Std Dev x 17.09
Std Dev y 0.03223
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
500
400
300
200
100
0


H.gtr.beta vs y_fp (PID & Delta cut)
hist_gtr_beta_yfp_PID_delta
Entries 154028
Mean x 0.1152
Mean y 1.011
Std Dev x 5.684
Std Dev y 0.03223
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
800
600
400
200
0


H.gtr.beta vs delta (PID & Delta cut)
hist_gtr_beta_delta_PID_delta
Entries 154028
Mean x −0.9044
Mean y 1.011
Std Dev x 4.536
Std Dev y 0.03223
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
800
600
400
200
0