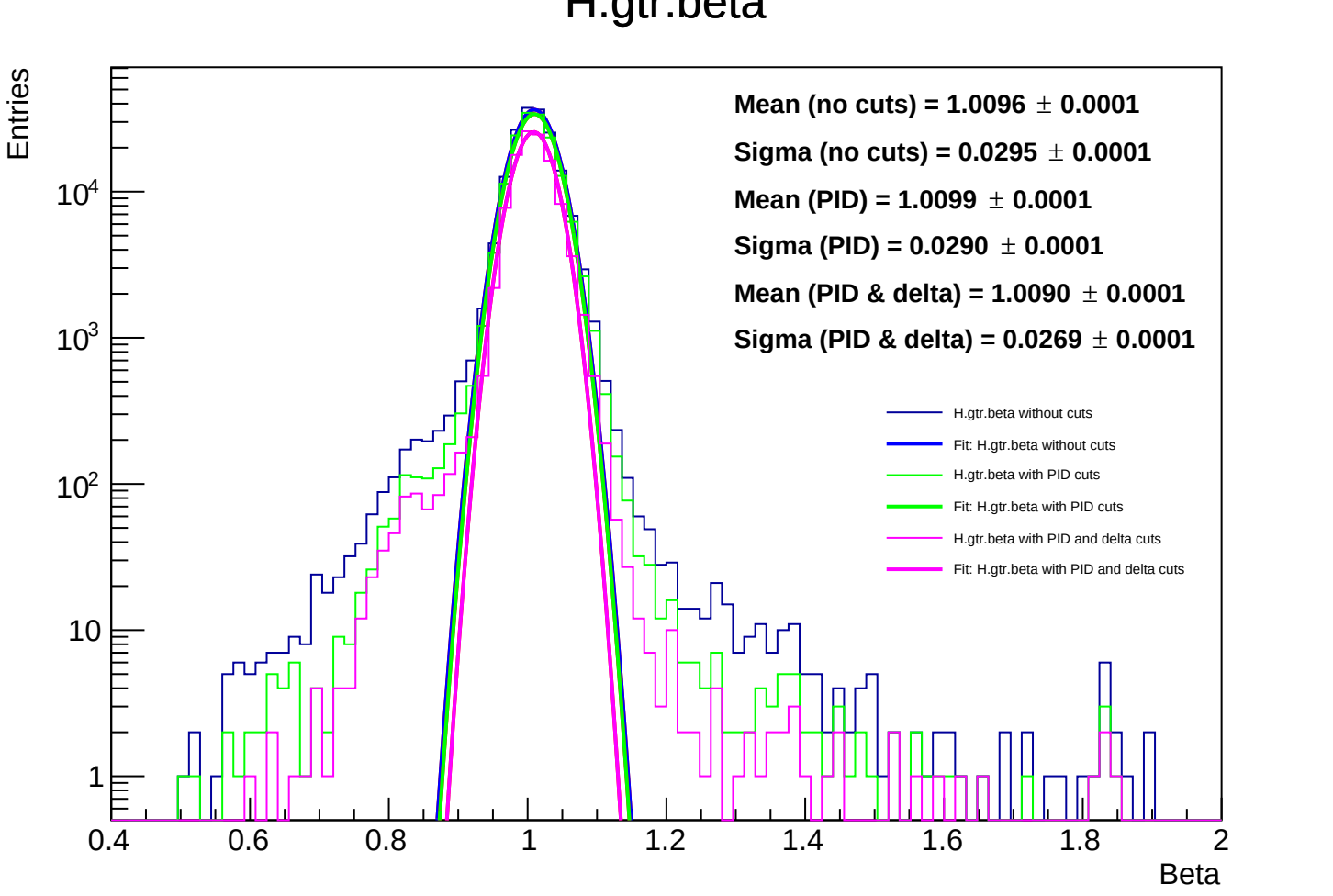
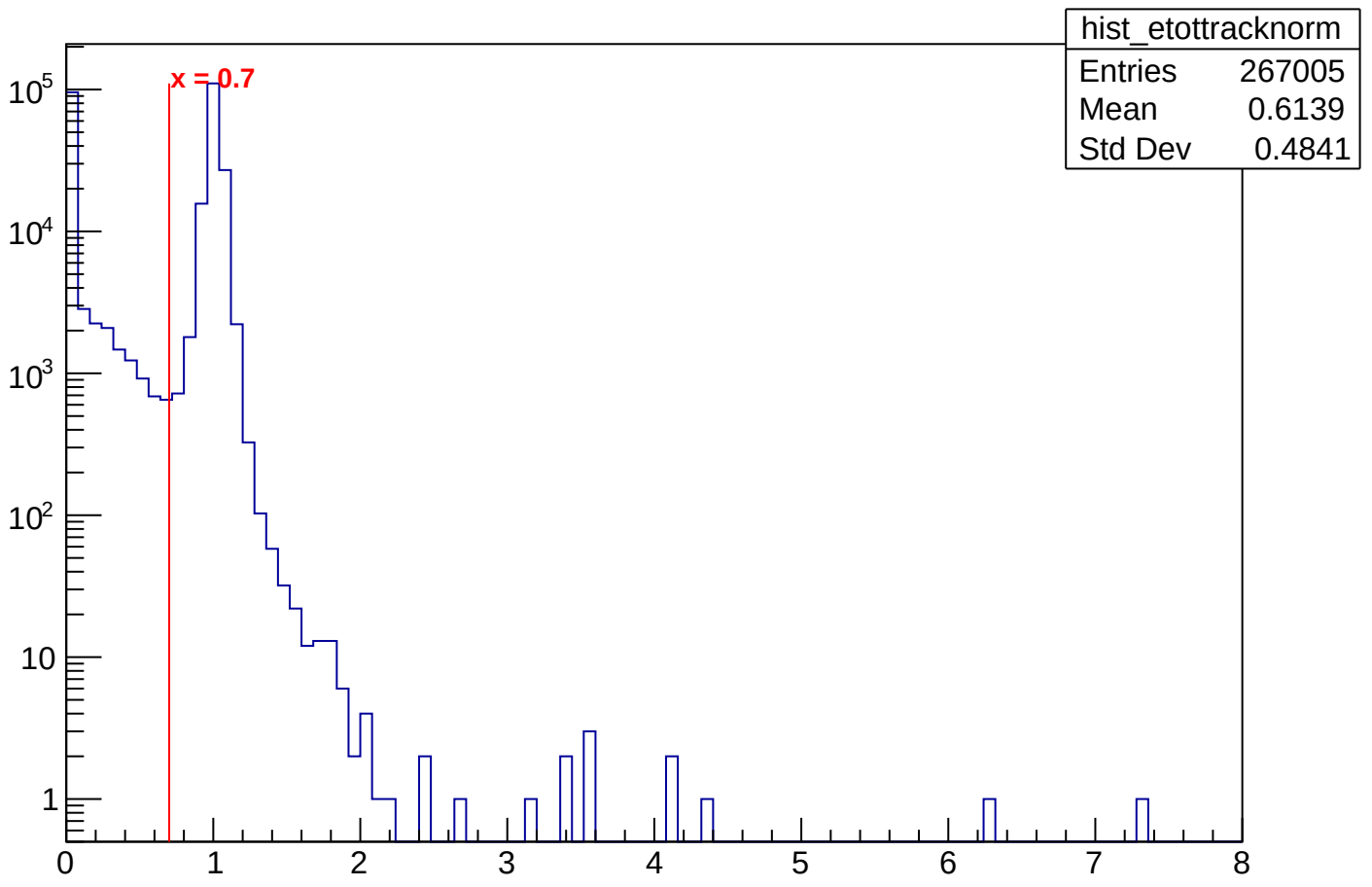
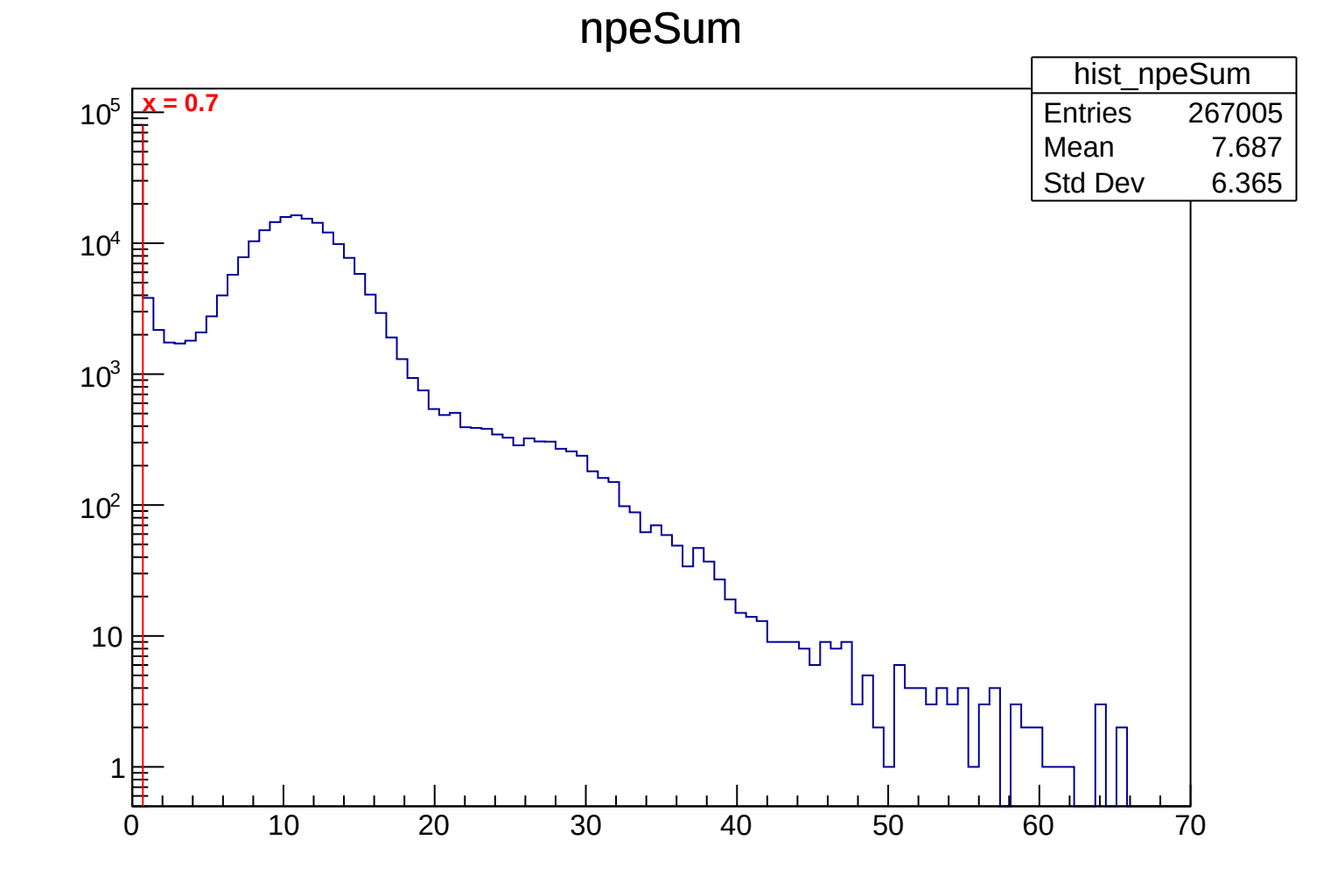
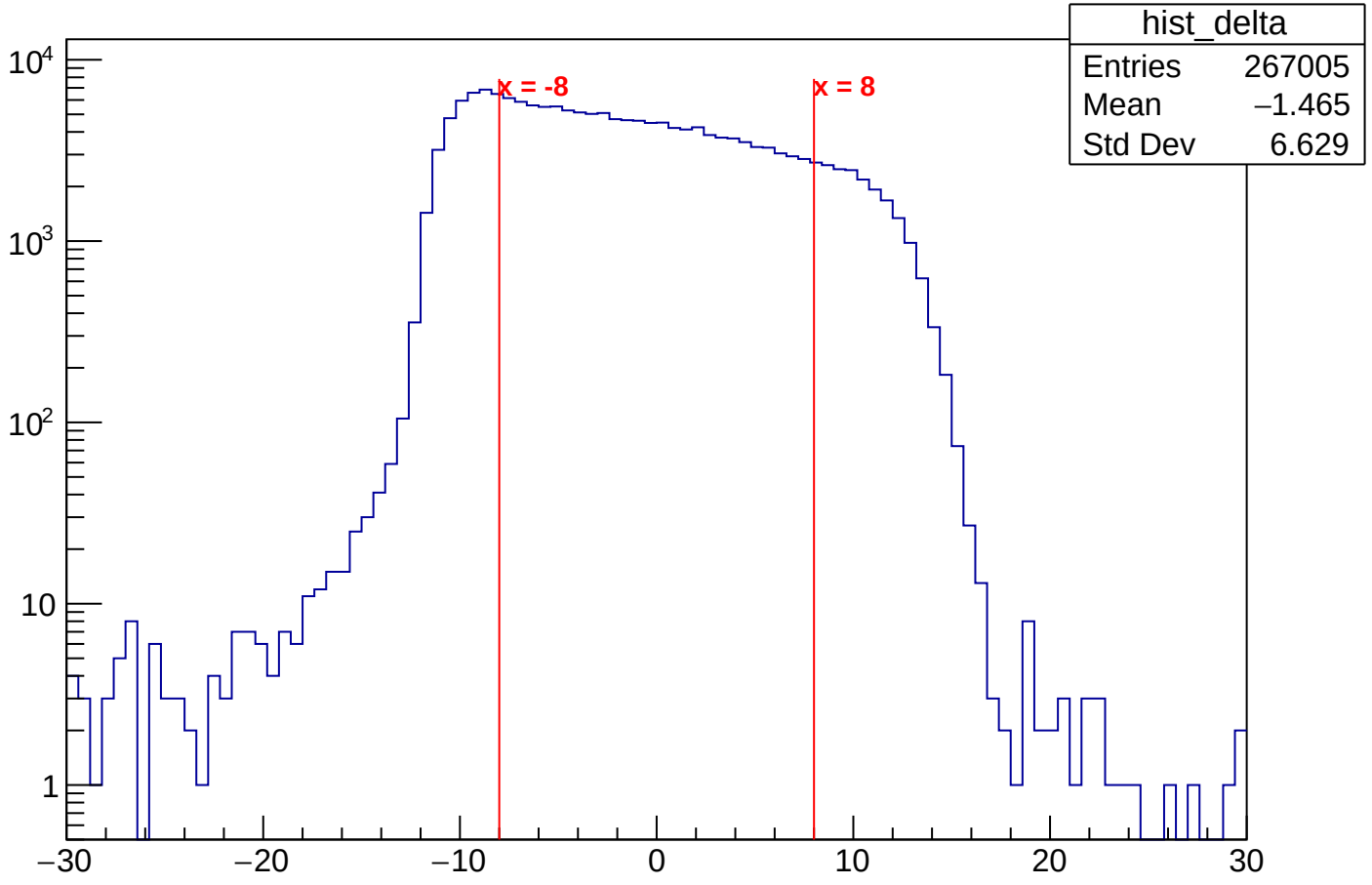
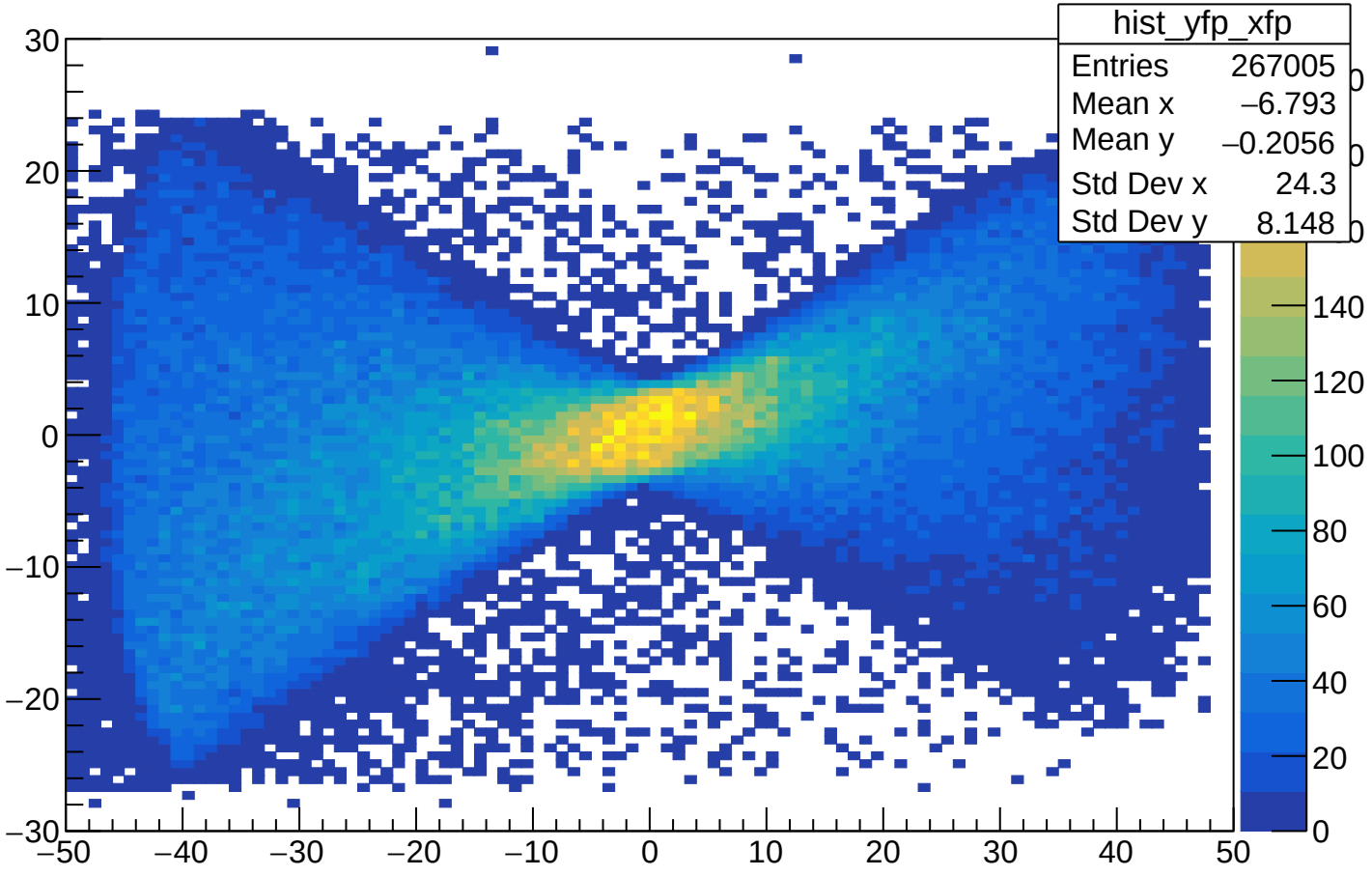
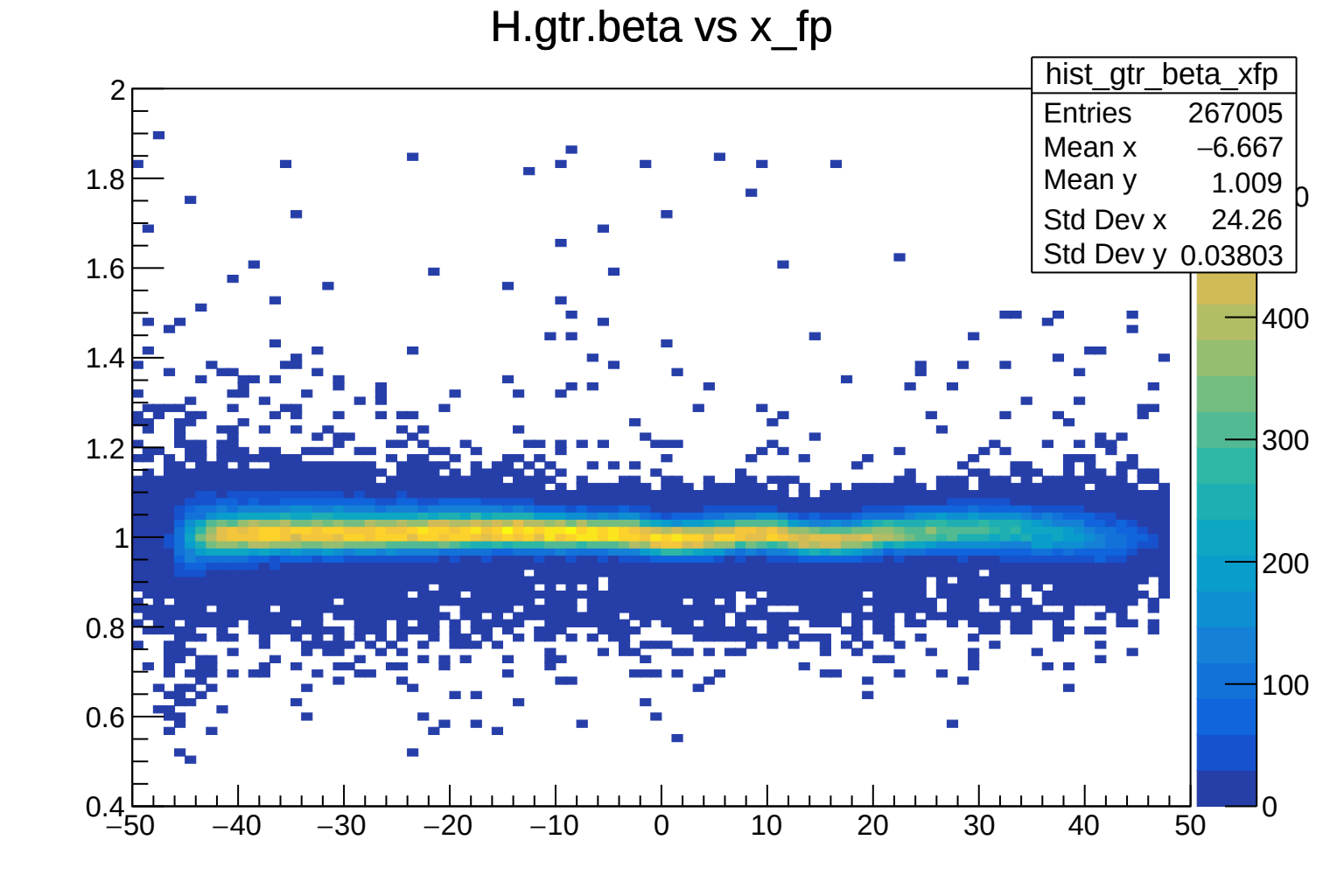

H.gtr.beta
Entries
Beta
Mean (no cuts) = 1.0096 ± 0.0001
Sigma (no cuts) = 0.0295 ± 0.0001
Mean (PID) = 1.0099 ± 0.0001
Sigma (PID) = 0.0290 ± 0.0001
Mean (PID & delta) = 1.0090 ± 0.0001
Sigma (PID & delta) = 0.0269 ± 0.0001
H.gtr.beta without cuts
Fit: H.gtr.beta without cuts
H.gtr.beta with PID cuts
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

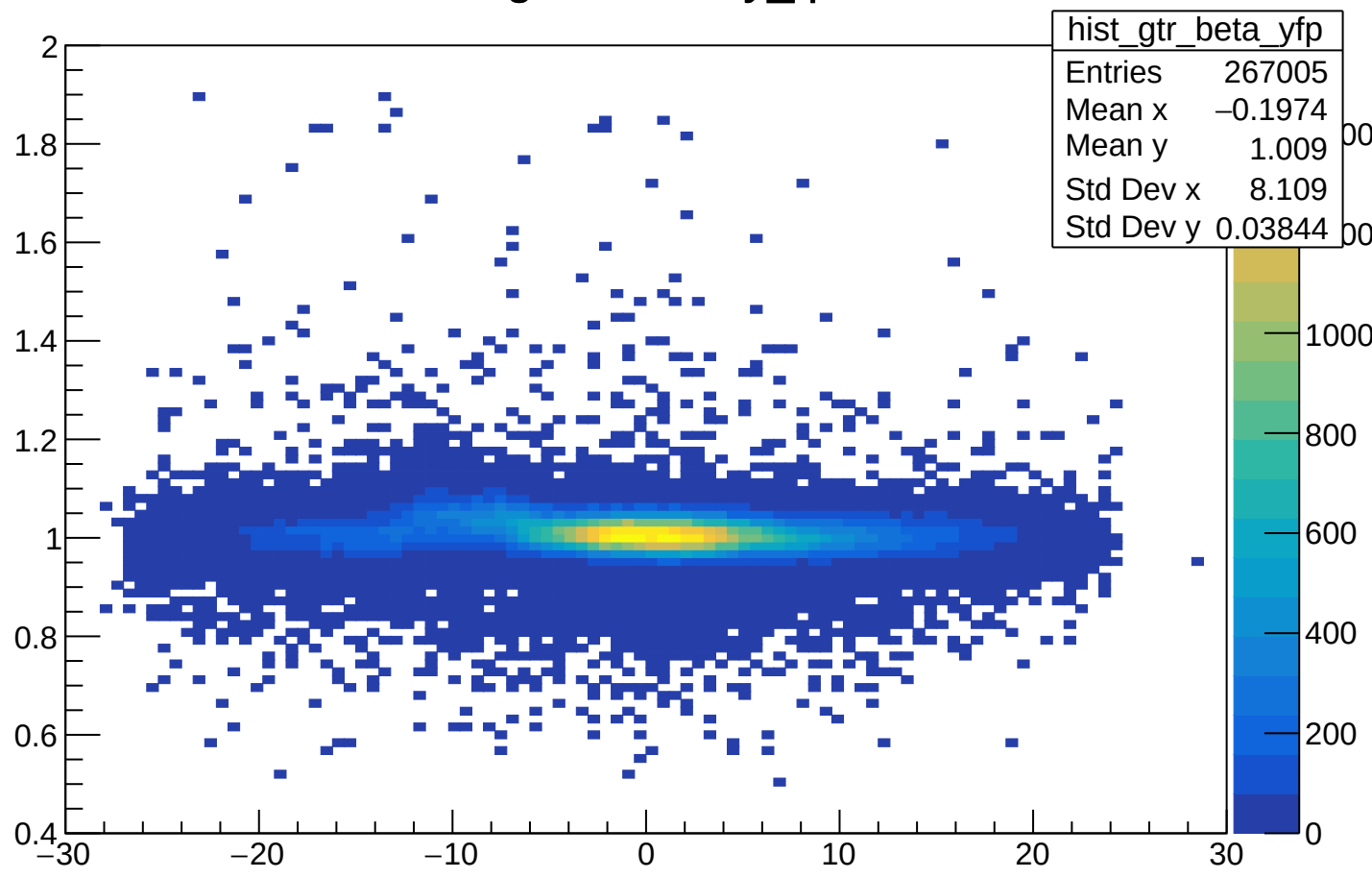

etottracknorm
hist_etottracknorm
Entries 267005
Mean 0.6139
Std Dev 0.4841
x = 0.7
10^5
10^4
10^3
10^2
10
1
0
1
2
3
4
5
6
7
8

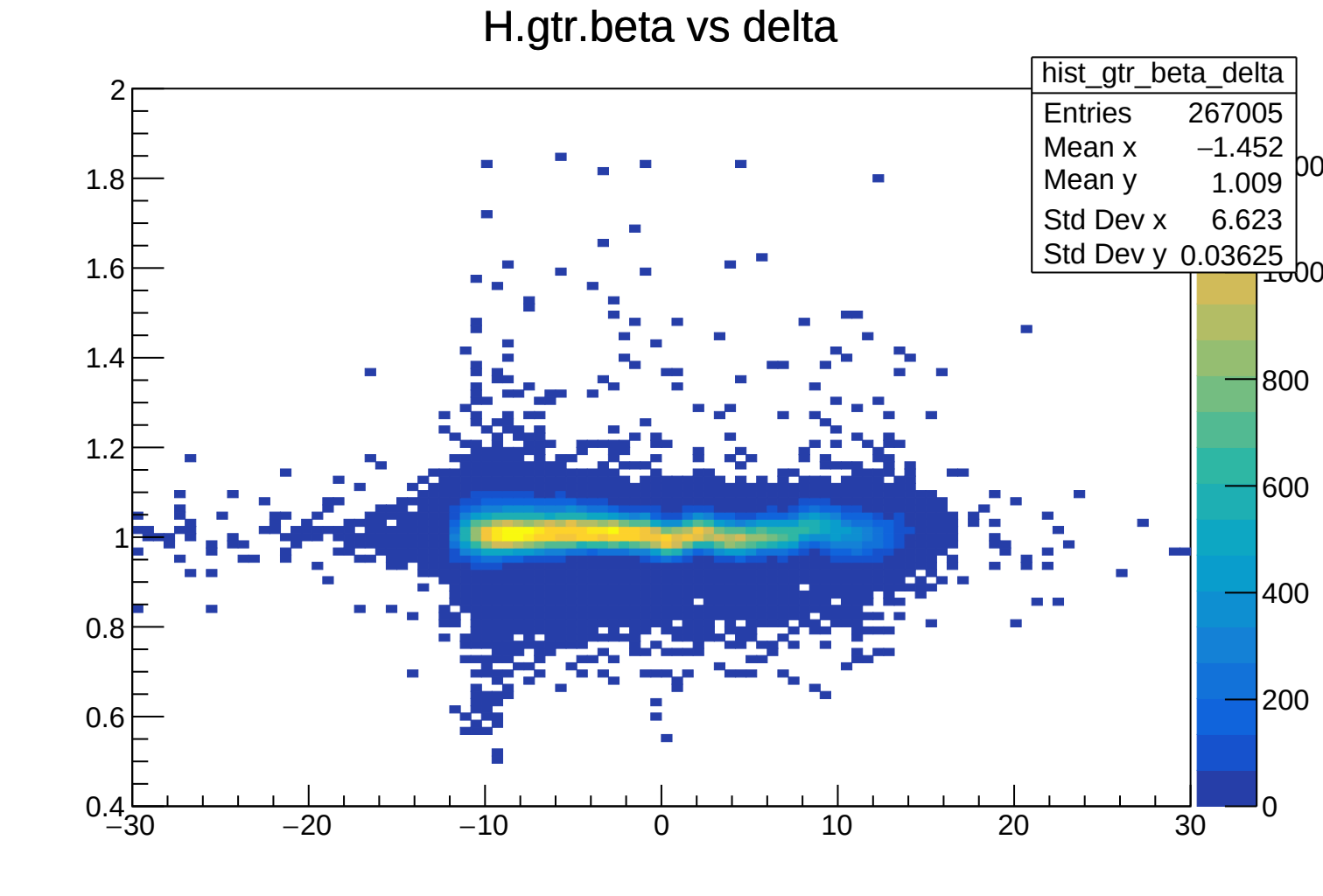

npeSum
hist_npeSum
Entries 267005
Mean 7.687
Std Dev 6.365
x = 0.7
10^5
10^4
10^3
10^2
10
1
0
10
20
30
40
50
60
70

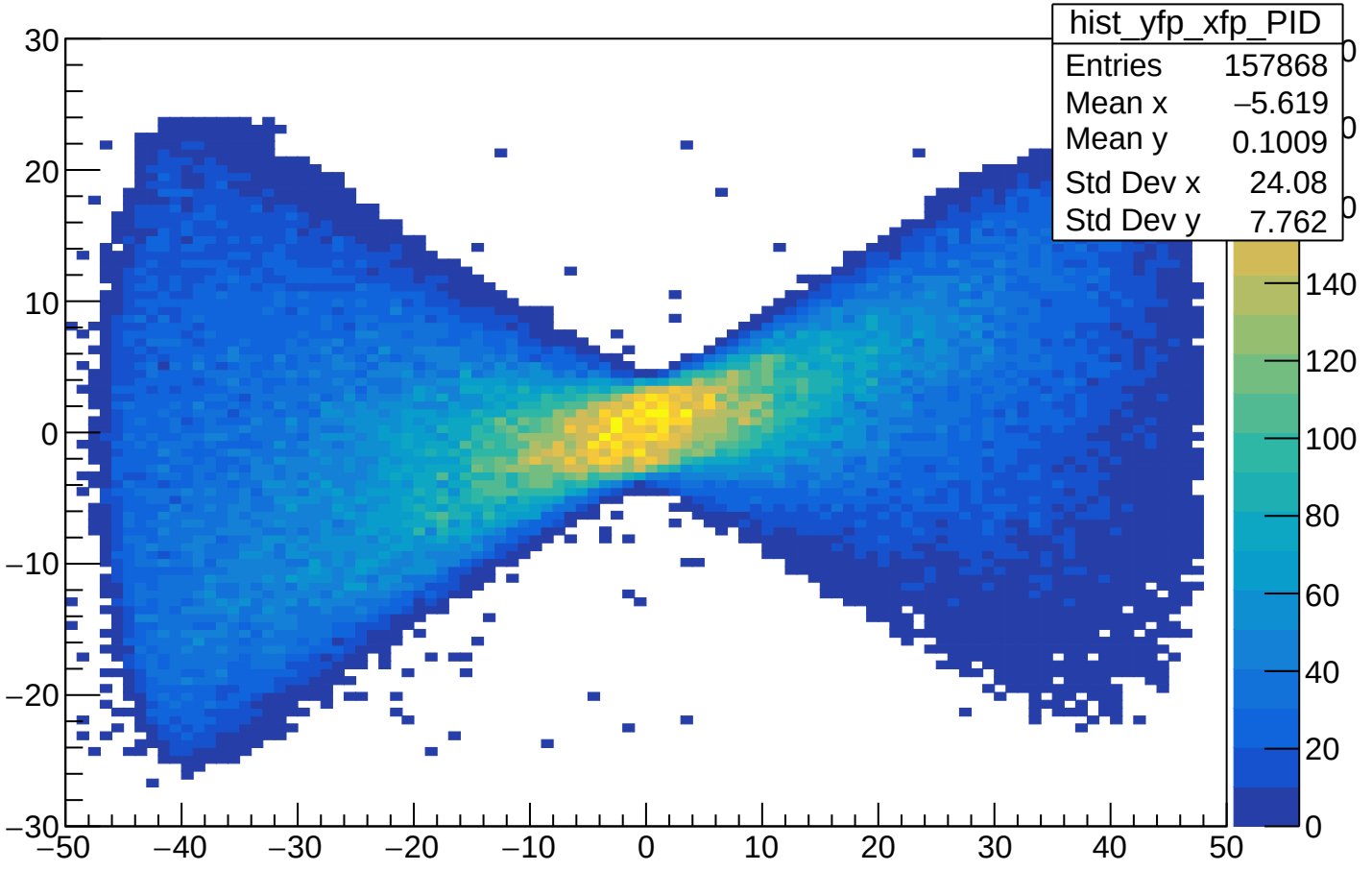

delta
hist_delta
Entries 267005
Mean −1.465
Std Dev 6.629
x = -8
x = 8
10^4
10^3
10^2
10
1
−30
−20
−10
0
10
20
30

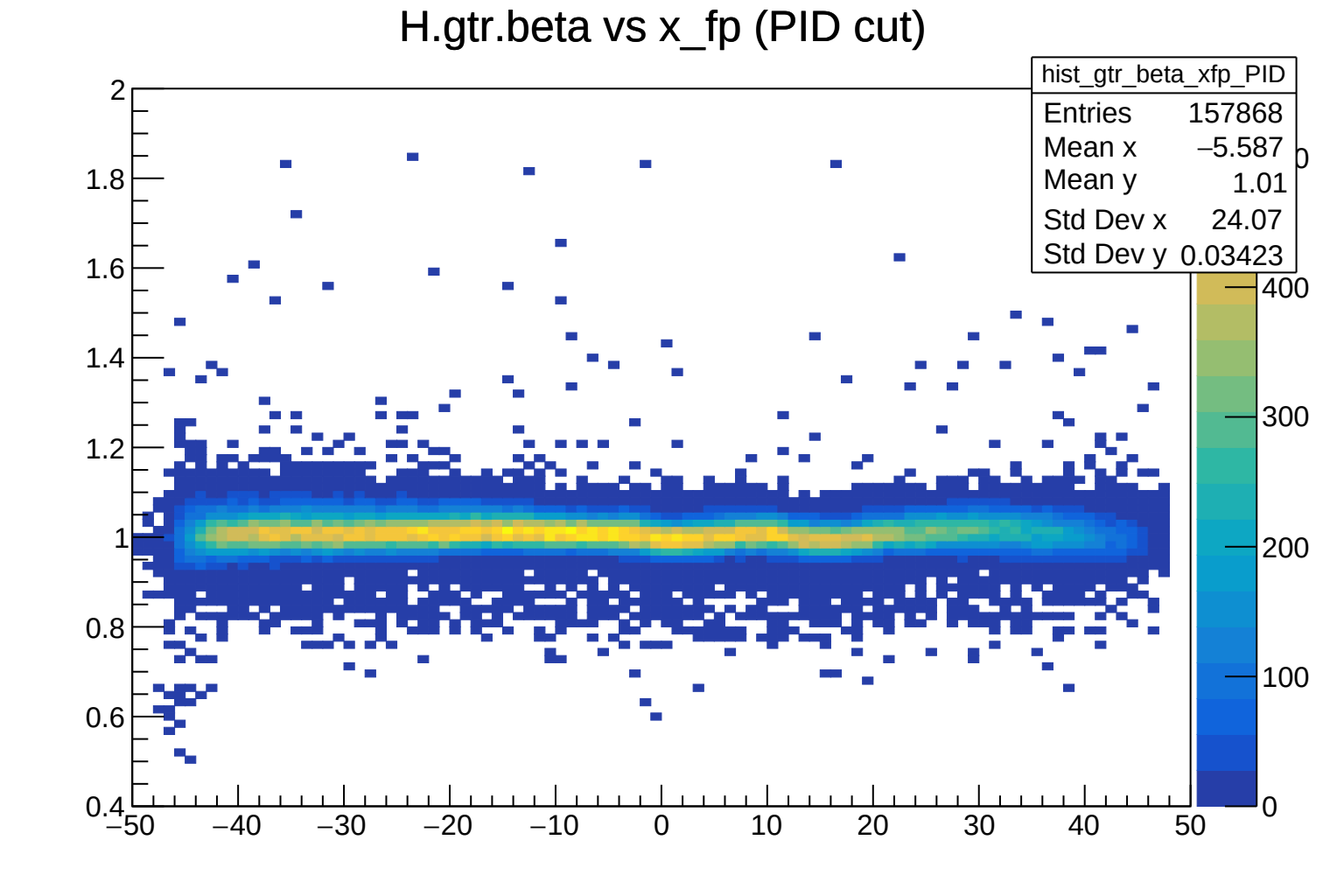

focal plane
hist_yfp_xfp
Entries 267005
Mean x −6.793
Mean y −0.2056
Std Dev x 24.3
Std Dev y 8.148
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
140
120
100
80
60
40
20
0

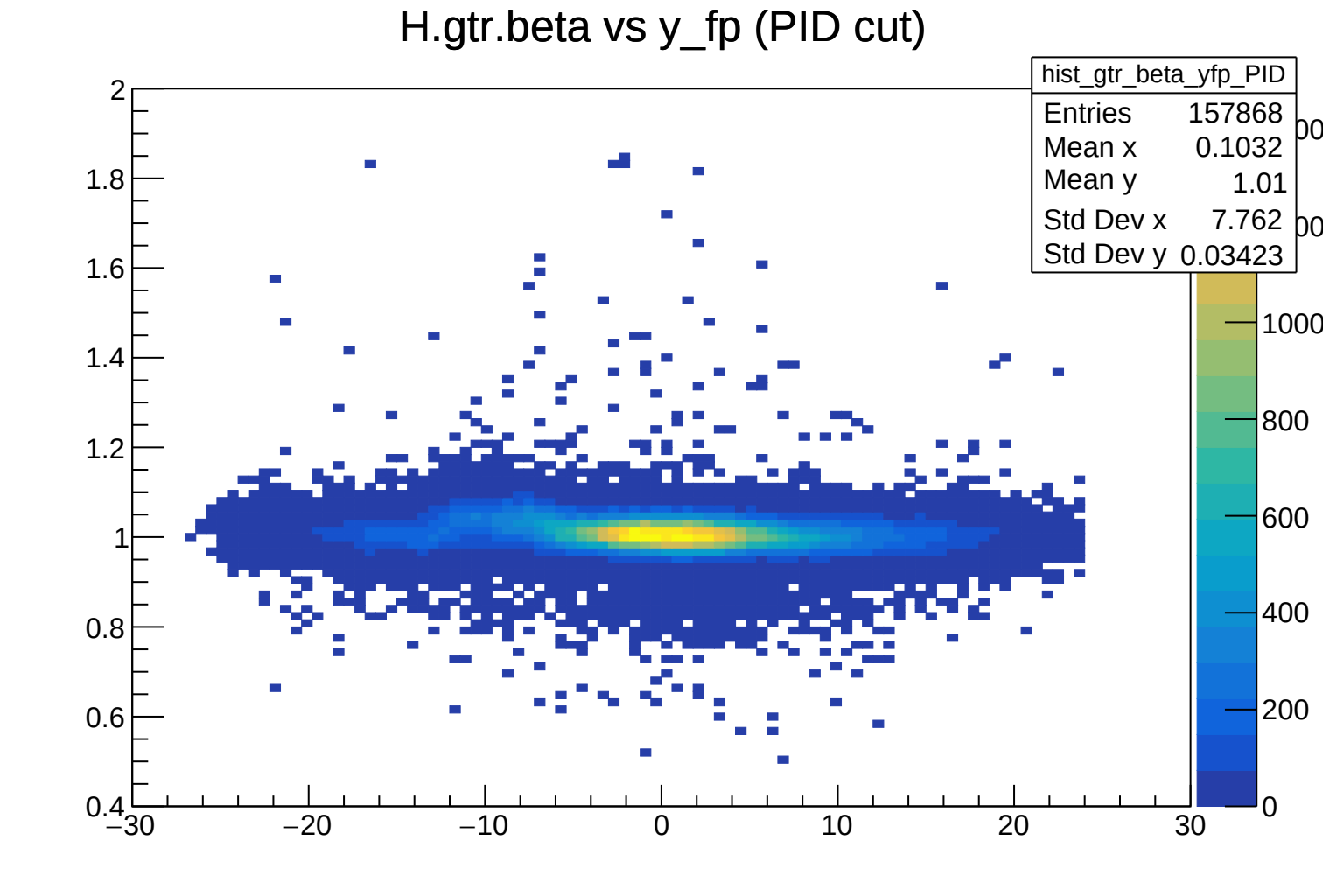

H.gtr.beta vs x_fp
hist_gtr_beta_xfp
Entries 267005
Mean x −6.667
Mean y 1.009
Std Dev x 24.26
Std Dev y 0.03803
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−50
−40
−30
−20
−10
0
10
20
30
40
50
400
300
200
100
0

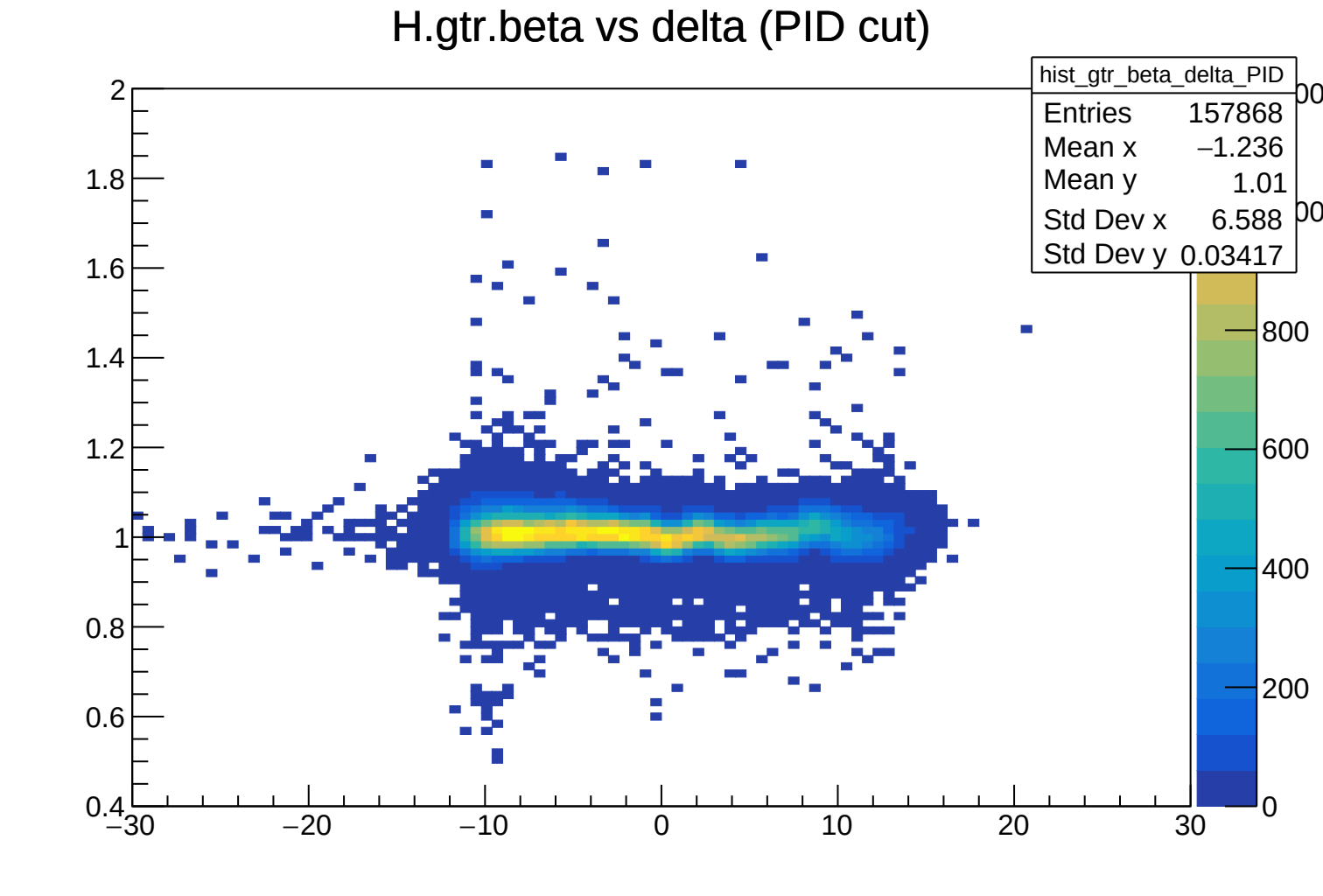

H.gtr.beta vs y_fp
hist_gtr_beta_yfp
Entries 267005
Mean x −0.1974
Mean y 1.009
Std Dev x 8.109
Std Dev y 0.03844
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
1000
800
600
400
200
0

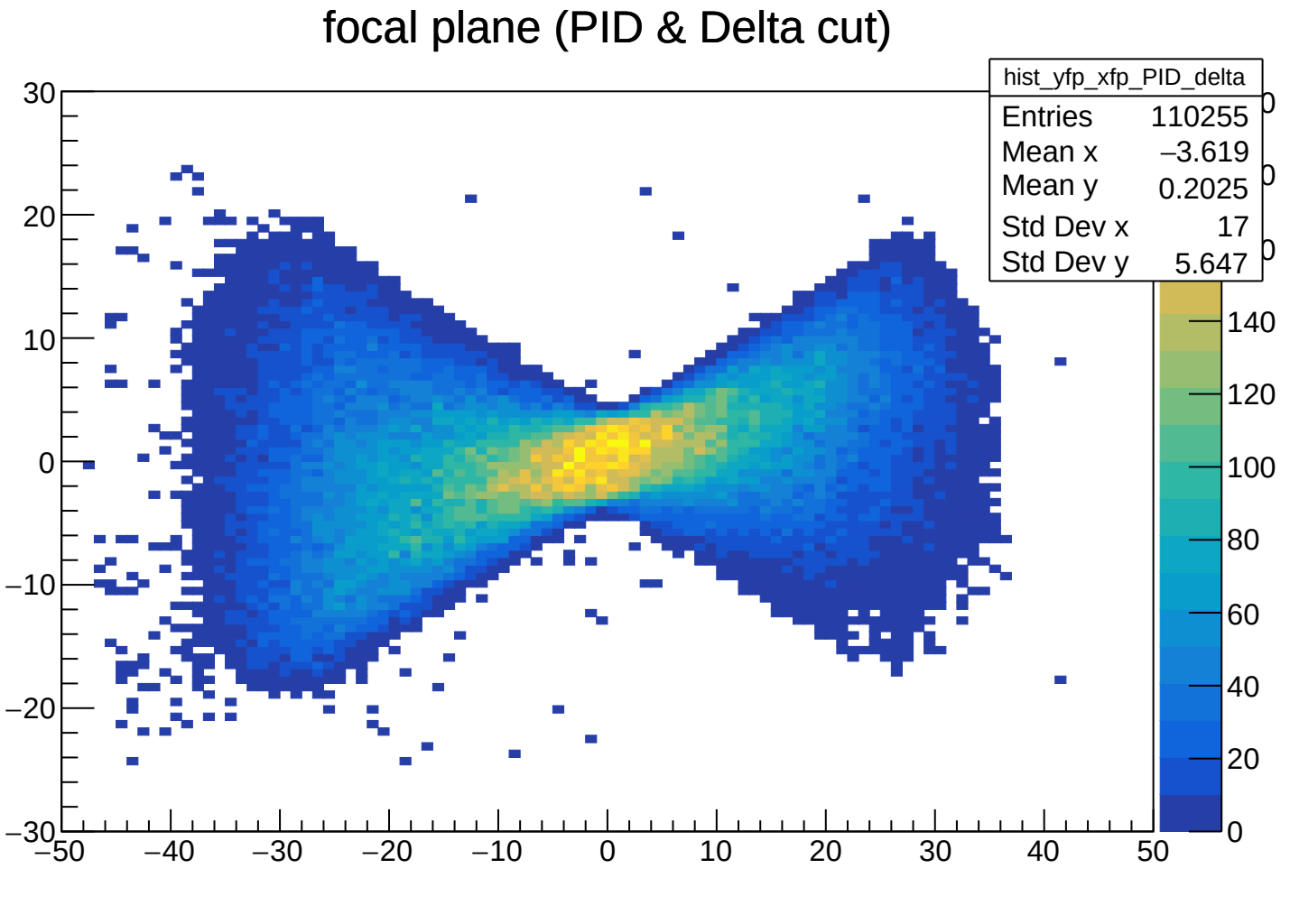

H.gtr.beta vs delta
hist_gtr_beta_delta
Entries 267005
Mean x −1.452
Mean y 1.009
Std Dev x 6.623
Std Dev y 0.03625
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
800
600
400
200
0

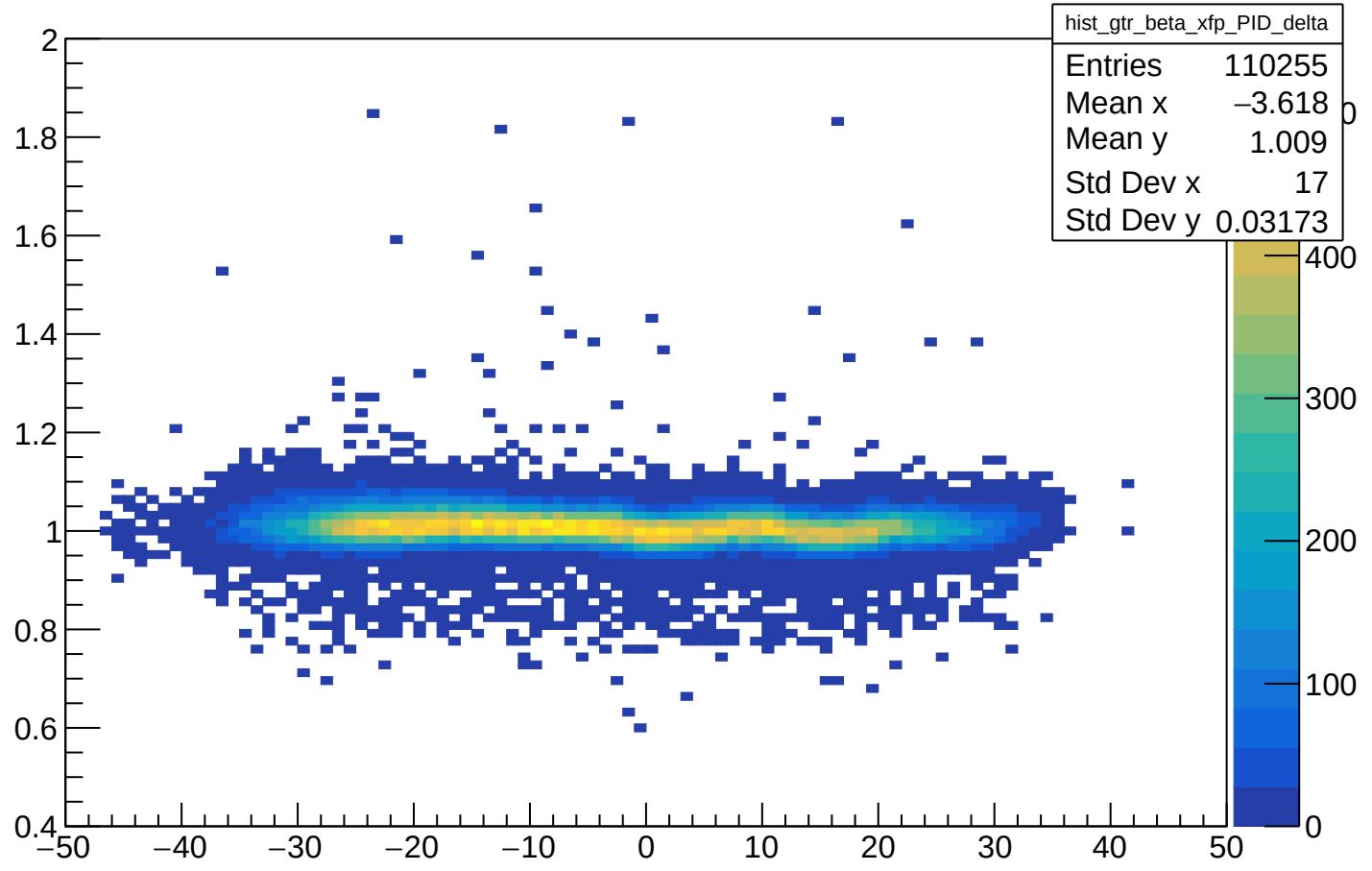

focal plane (PID cut)
hist_yfp_xfp_PID
Entries 157868
Mean x –5.619
Mean y 0.1009
Std Dev x 24.08
Std Dev y 7.762
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
140
120
100
80
60
40
20
0

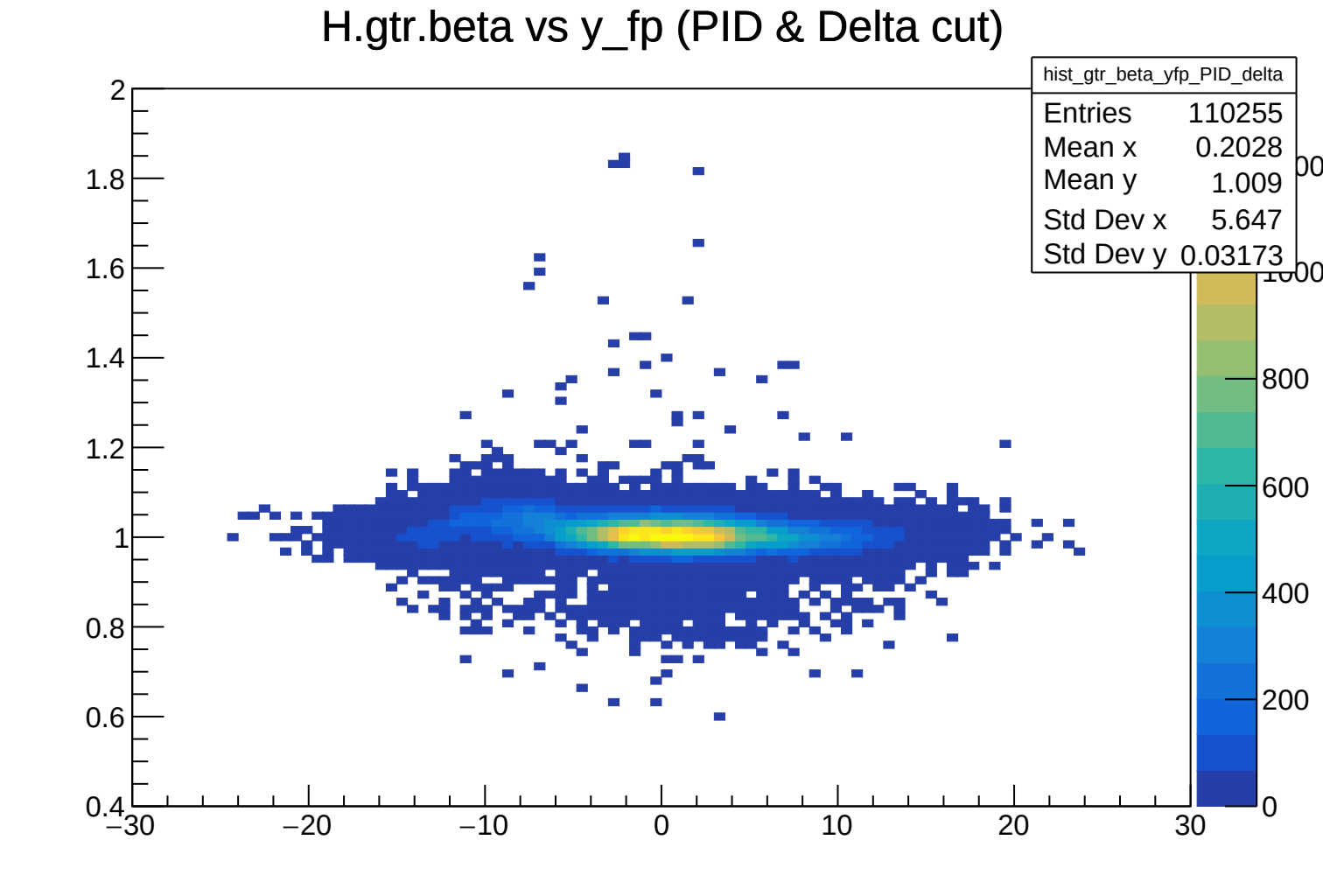

H.gtr.beta vs x_fp (PID cut)
hist_gtr_beta_xfp_PID
Entries 157868
Mean x −5.587
Mean y 1.01
Std Dev x 24.07
Std Dev y 0.03423
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−50
−40
−30
−20
−10
0
10
20
30
40
50
400
300
200
100
0

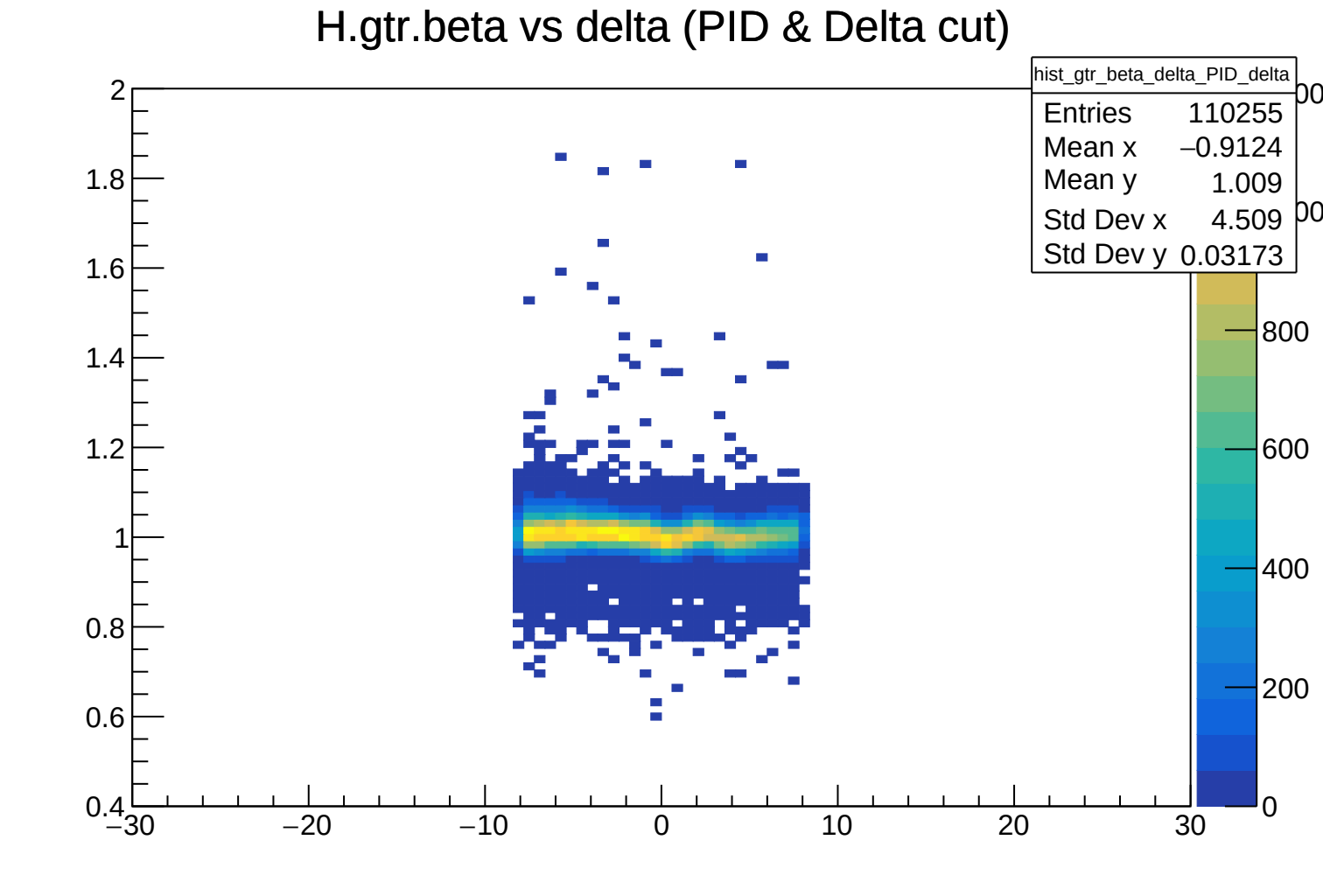

H.gtr.beta vs y_fp (PID cut)
hist_gtr_beta_yfp_PID
Entries 157868
Mean x 0.1032
Mean y 1.01
Std Dev x 7.762
Std Dev y 0.03423
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
1000
800
600
400
200
0


H.gtr.beta vs delta (PID cut)
hist_gtr_beta_delta_PID
Entries 157868
Mean x −1.236
Mean y 1.01
Std Dev x 6.588
Std Dev y 0.03417
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
800
600
400
200
0


focal plane (PID & Delta cut)
hist_yfp_xfp_PID_delta
Entries 110255
Mean x −3.619
Mean y 0.2025
Std Dev x 17
Std Dev y 5.647
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
140
120
100
80
60
40
20
0


H.gtr.beta vs x_fp (PID & Delta cut)
hist_gtr_beta_xfp_PID_delta
Entries 110255
Mean x −3.618
Mean y 1.009
Std Dev x 17
Std Dev y 0.03173
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 110255
Mean x 0.2028
Mean y 1.009
Std Dev x 5.647
Std Dev y 0.03173
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
800
600
400
200
0


H.gtr.beta vs delta (PID & Delta cut)
hist_gtr_beta_delta_PID_delta
Entries 110255
Mean x −0.9124
Mean y 1.009
Std Dev x 4.509
Std Dev y 0.03173
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
800
600
400
200
0