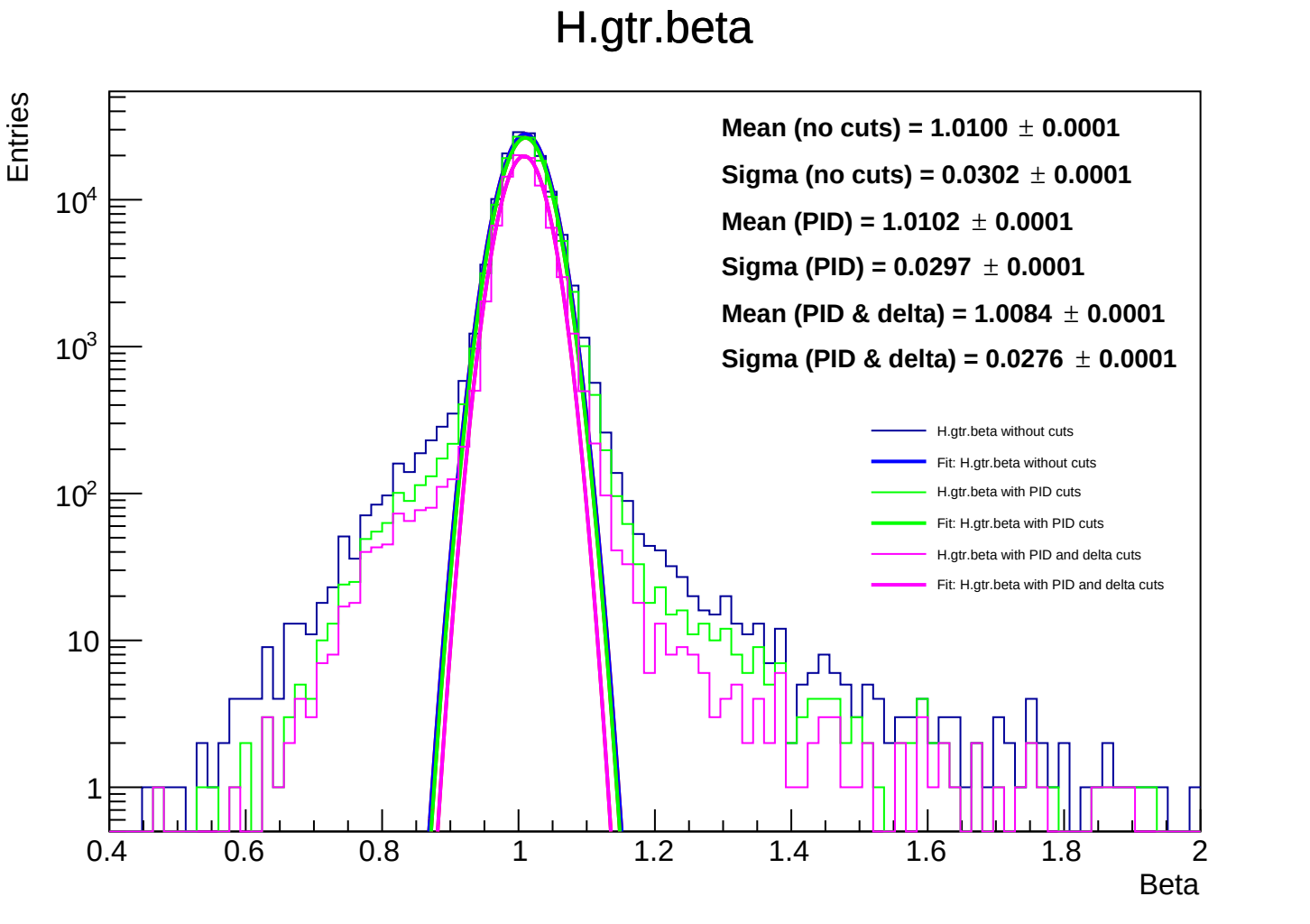
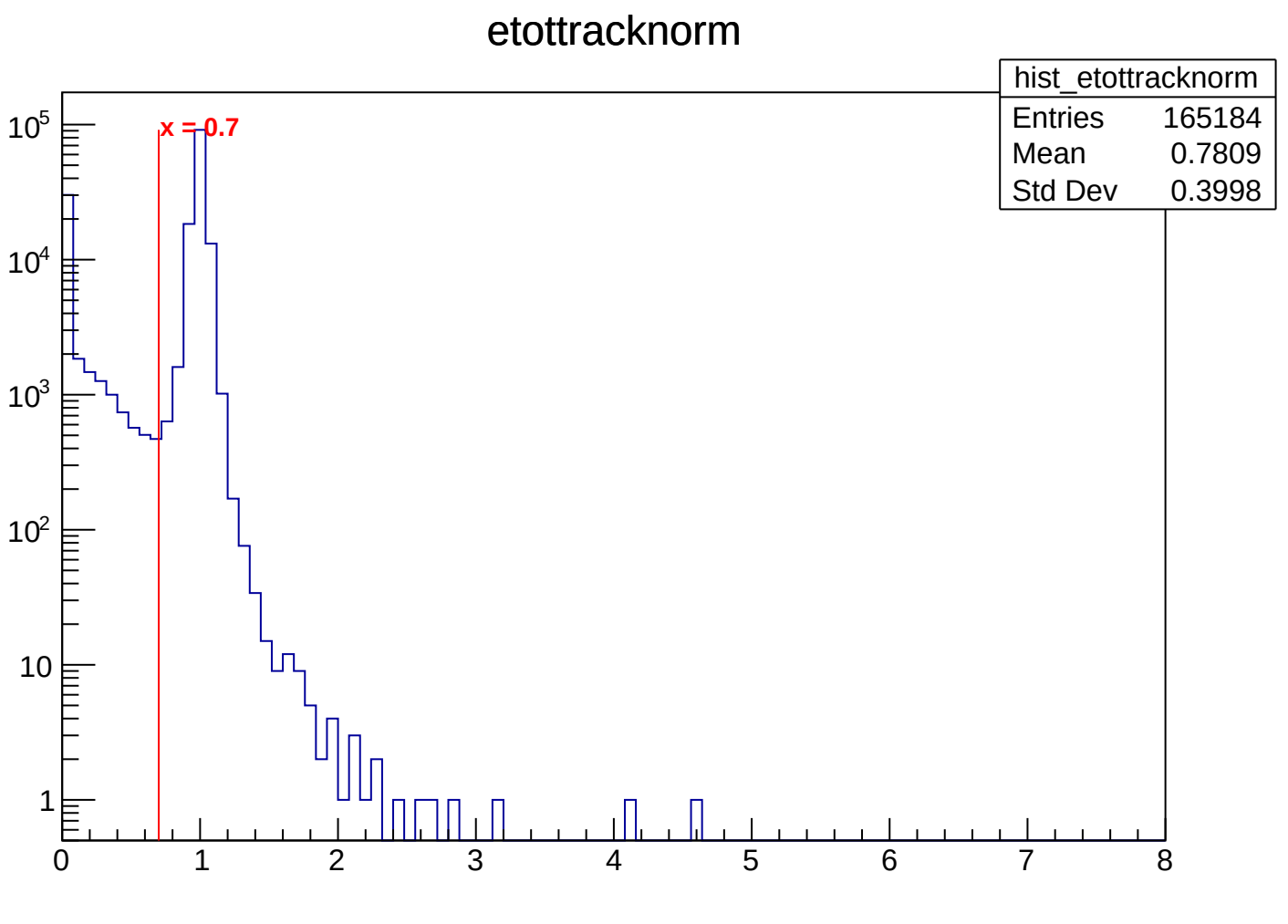
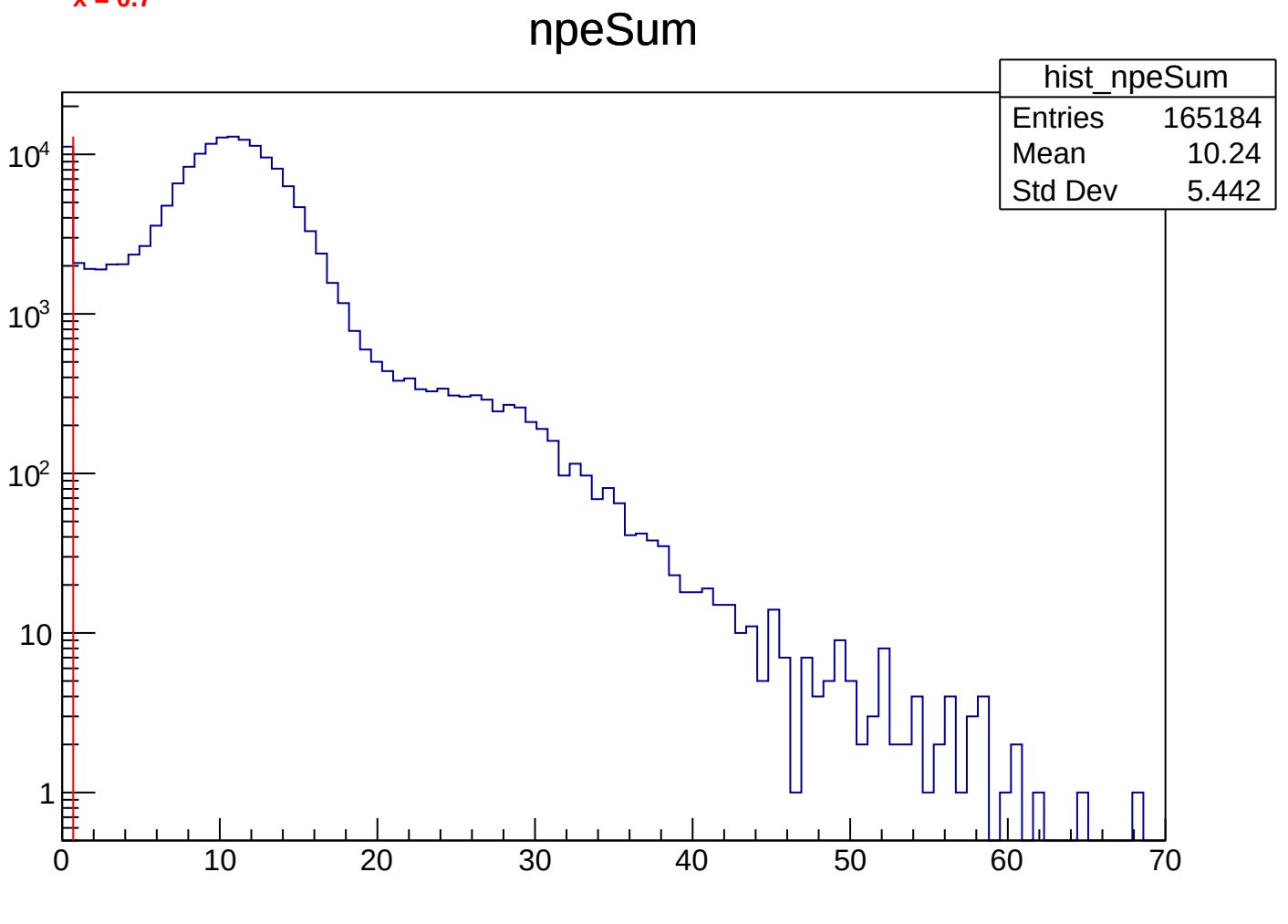
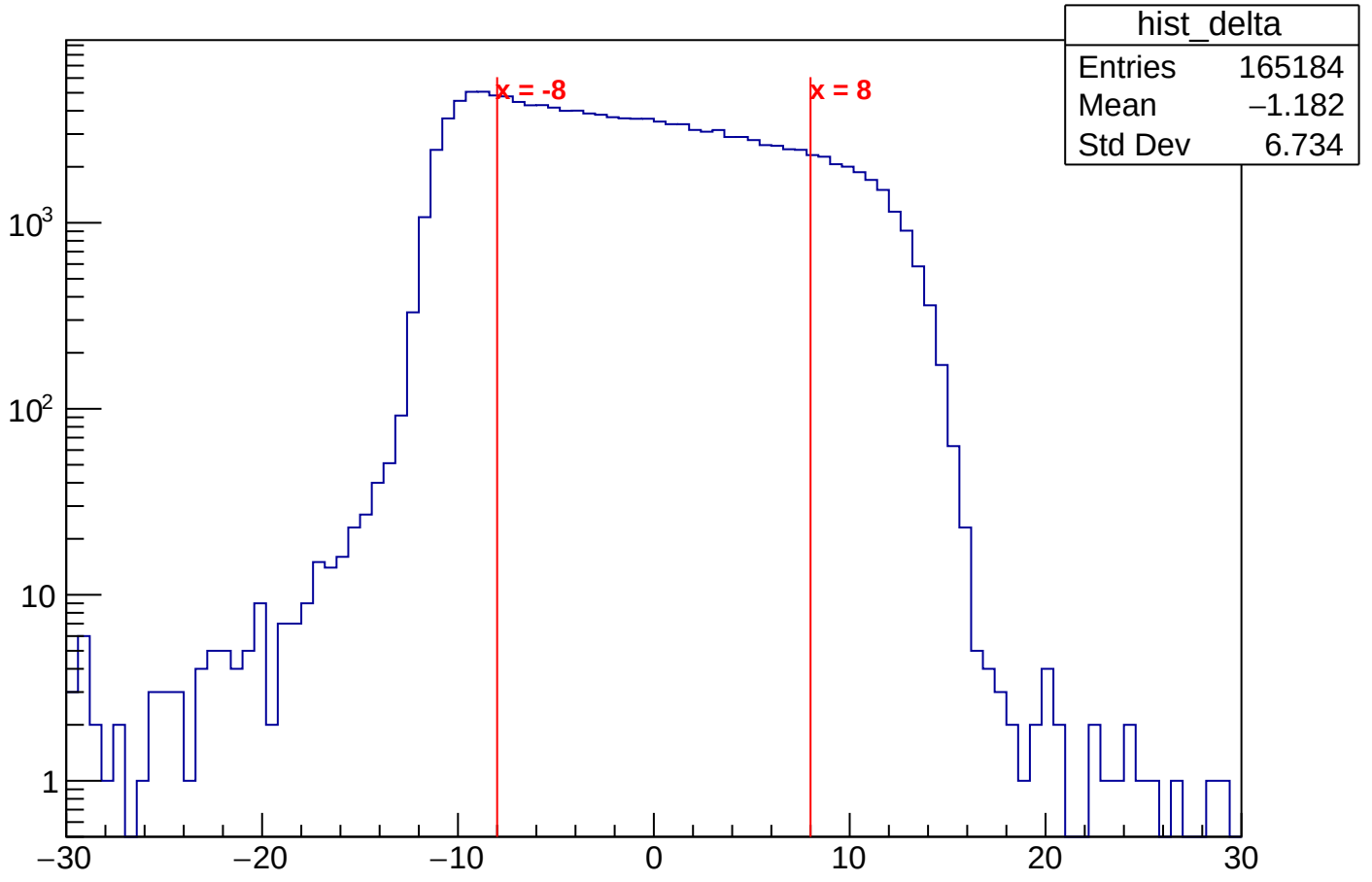
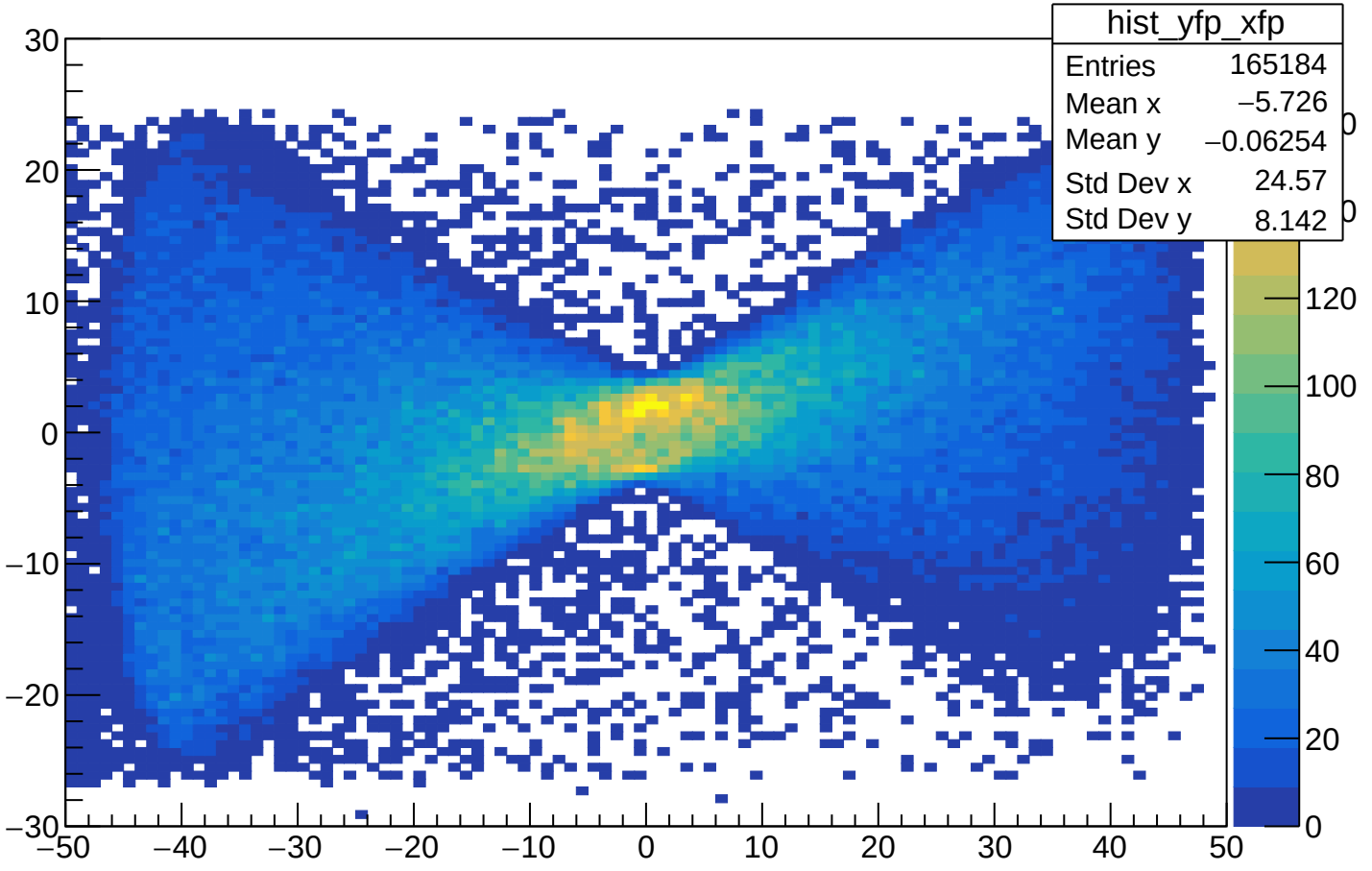
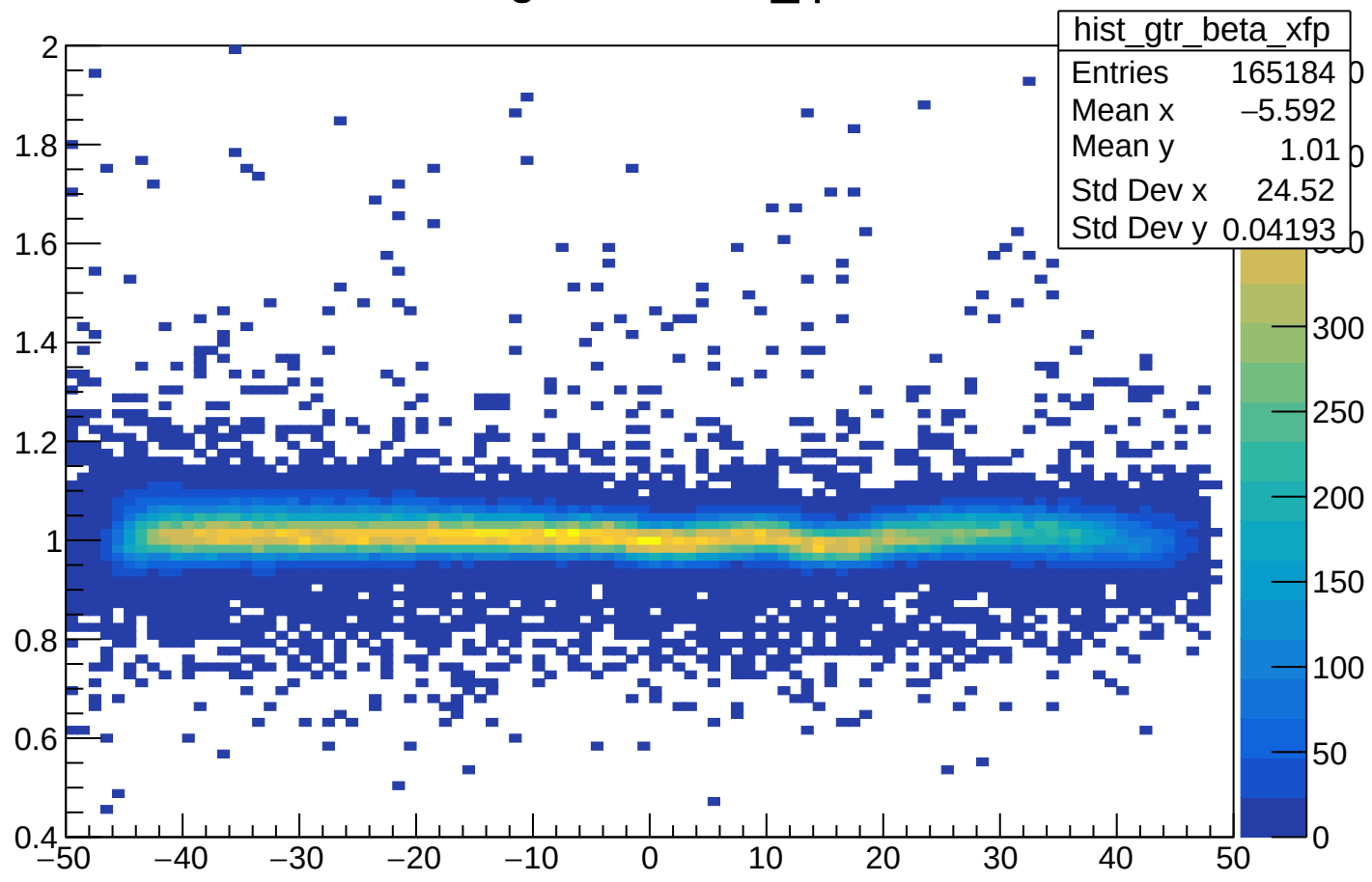

H.gtr.beta
Entries
Beta
Mean (no cuts) = 1.0100 ± 0.0001
Sigma (no cuts) = 0.0302 ± 0.0001
Mean (PID) = 1.0102 ± 0.0001
Sigma (PID) = 0.0297 ± 0.0001
Mean (PID & delta) = 1.0084 ± 0.0001
Sigma (PID & delta) = 0.0276 ± 0.0001
H.gtr.beta without cuts
Fit: H.gtr.beta without cuts
H.gtr.beta with PID cuts
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

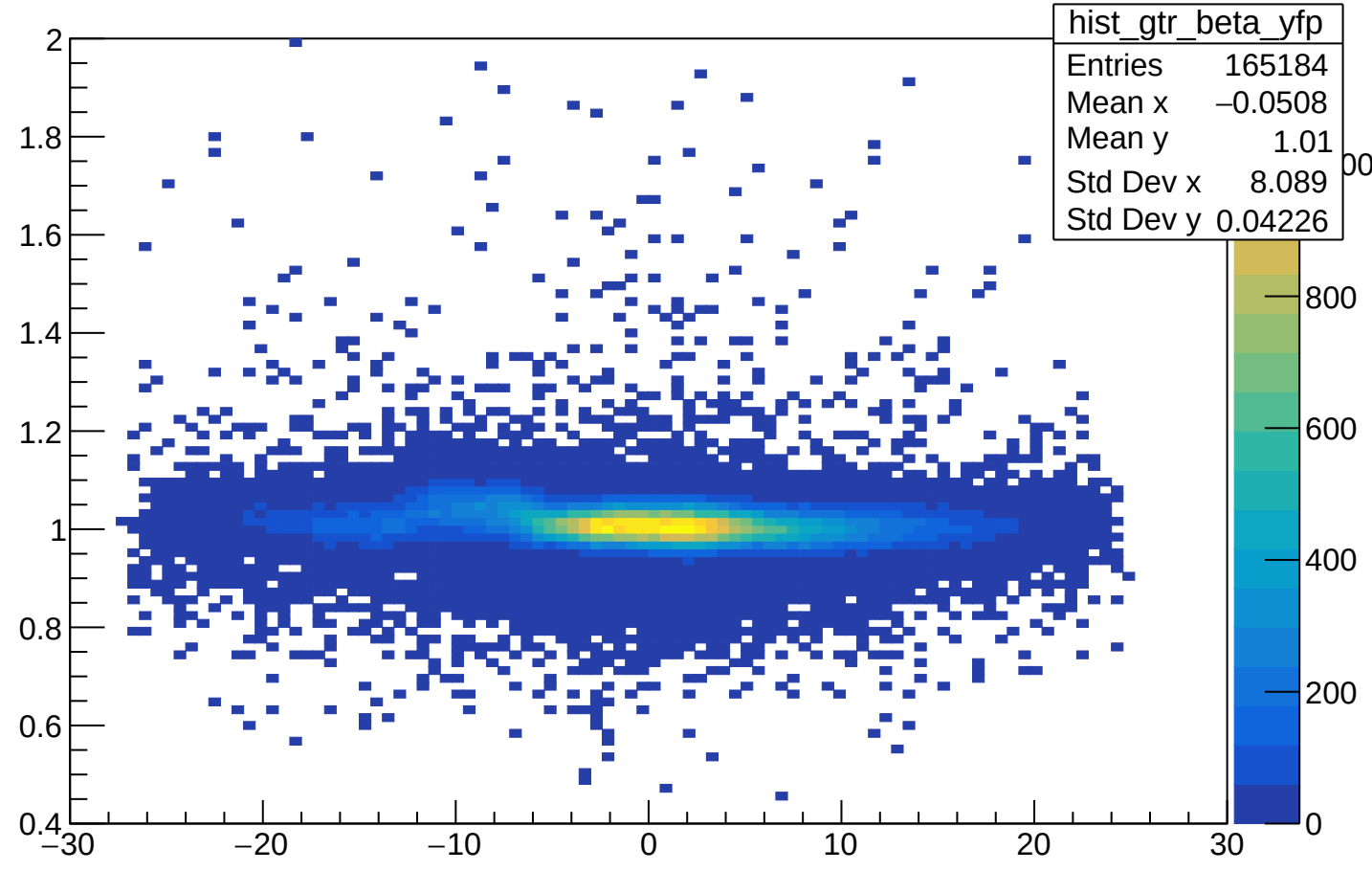

etottracknorm
hist_etottracknorm
Entries 165184
Mean 0.7809
Std Dev 0.3998
x = 0.7
10^5
10^4
10^3
10^2
10
1
0
1
2
3
4
5
6
7
8

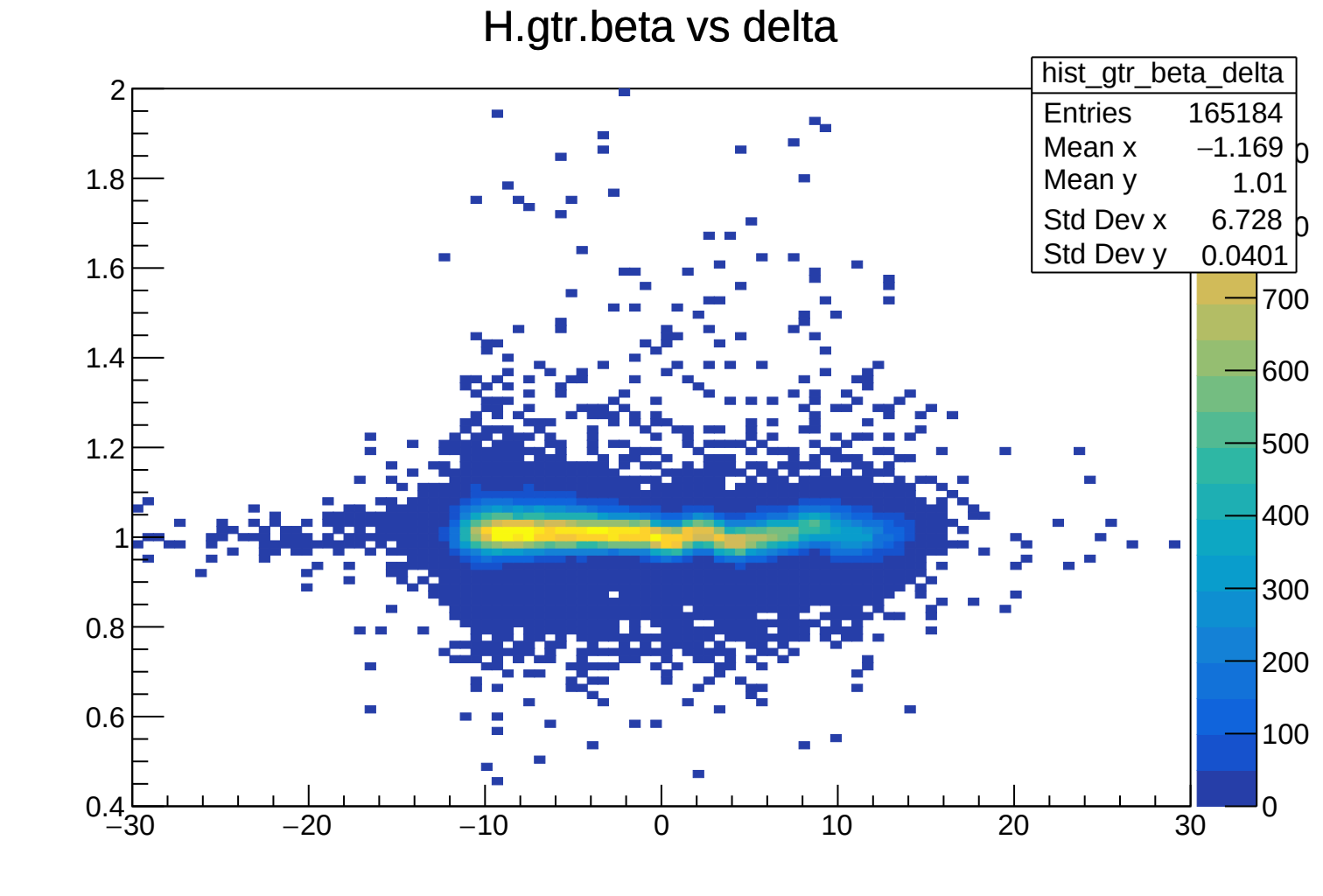

x = 6.7
npeSum
hist_npeSum
Entries 165184
Mean 10.24
Std Dev 5.442
10^4
10^3
10^2
10
1
0
10
20
30
40
50
60
70

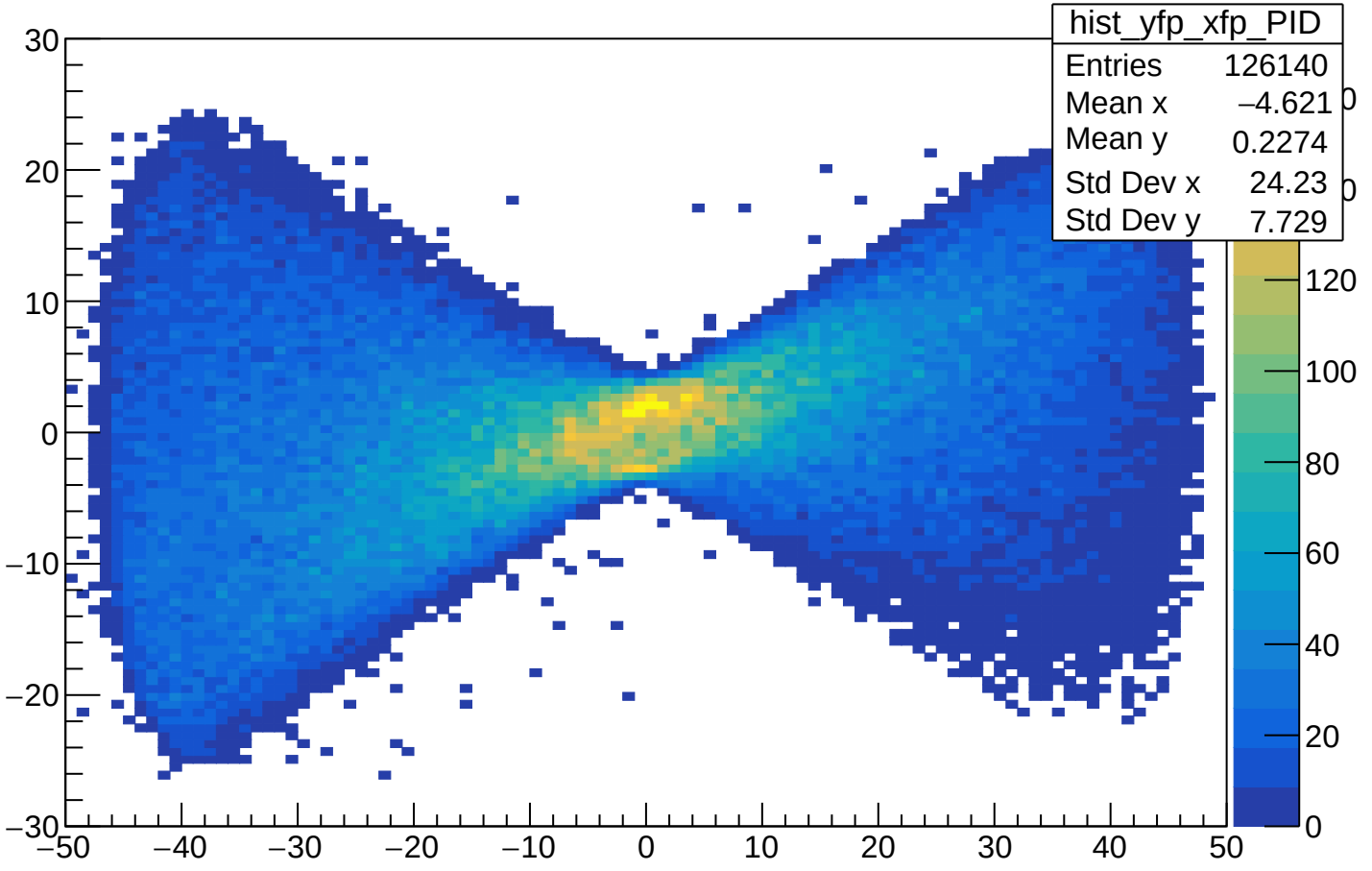

delta
hist_delta
Entries 165184
Mean −1.182
Std Dev 6.734
x = -8
x = 8
10^3
10^2
10
1
−30
−20
−10
0
10
20
30

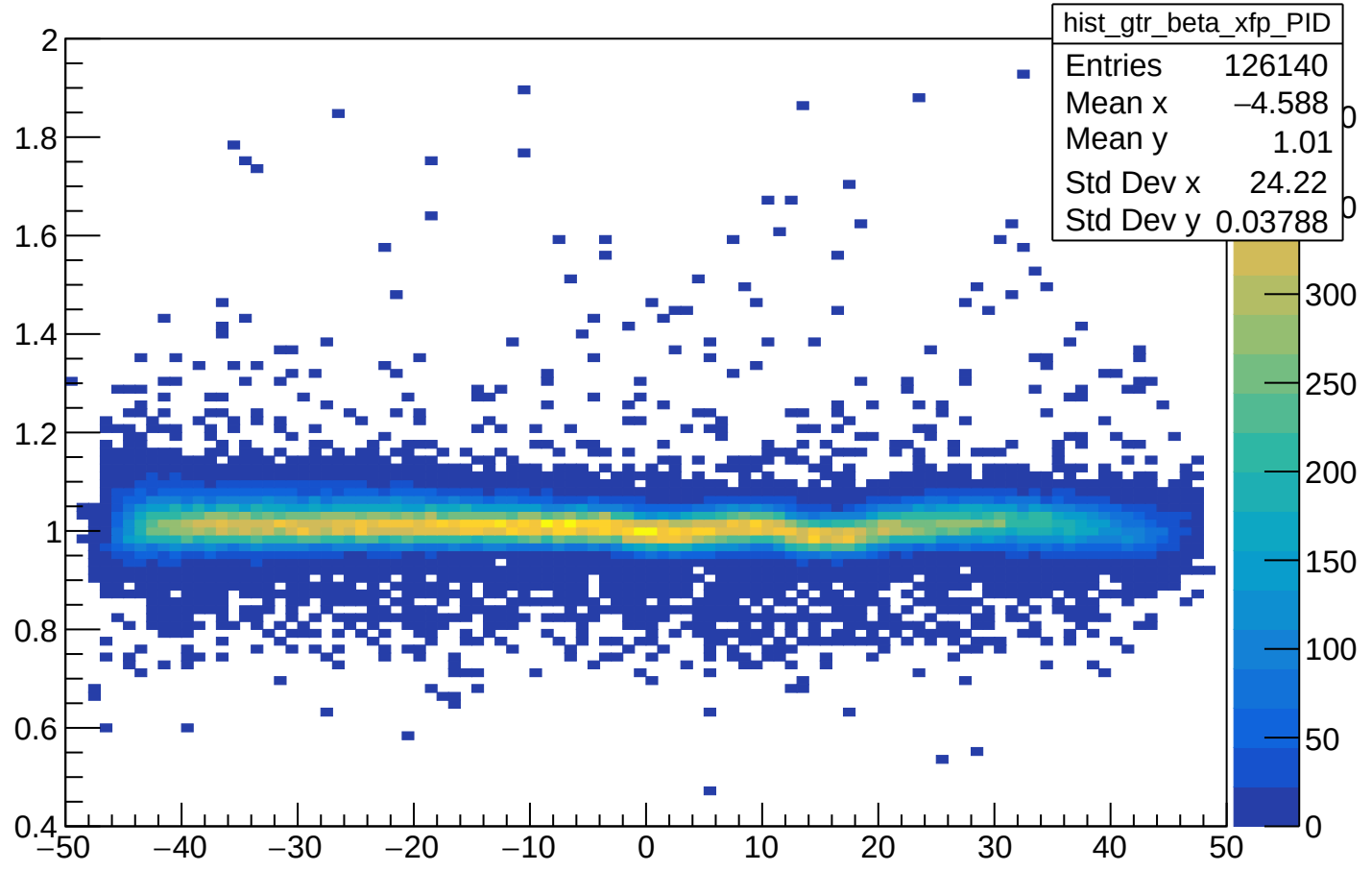

focal plane
hist_yfp_xfp
Entries 165184
Mean x −5.726
Mean y −0.06254
Std Dev x 24.57
Std Dev y 8.142
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
120
100
80
60
40
20
0

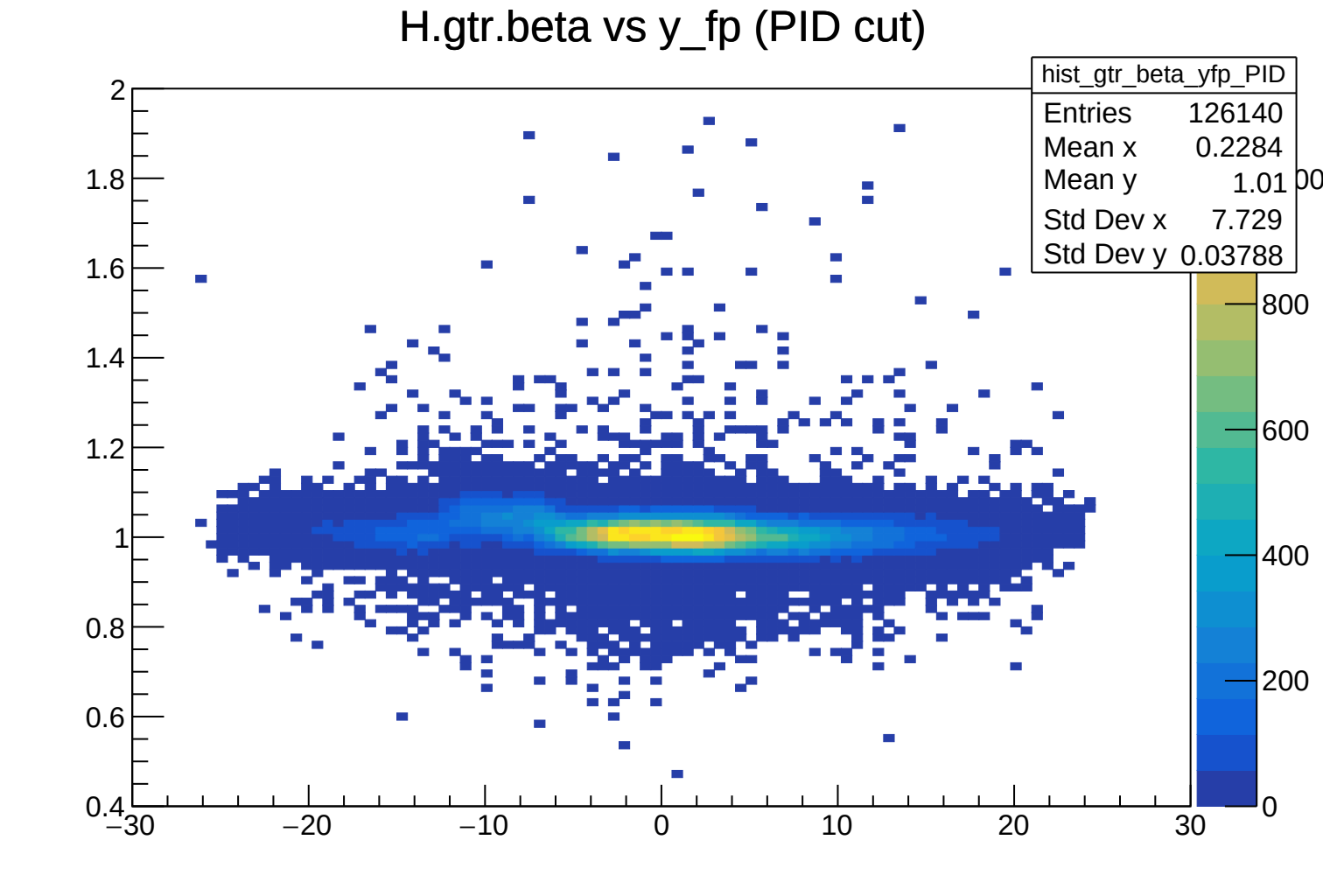

H.gtr.beta vs x_fp
hist_gtr_beta_xfp
Entries 165184
Mean x –5.592
Mean y 1.01
Std Dev x 24.52
Std Dev y 0.04193
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
–50
–40
–30
–20
–10
0
10
20
30
40
50
300
250
200
150
100
50
0

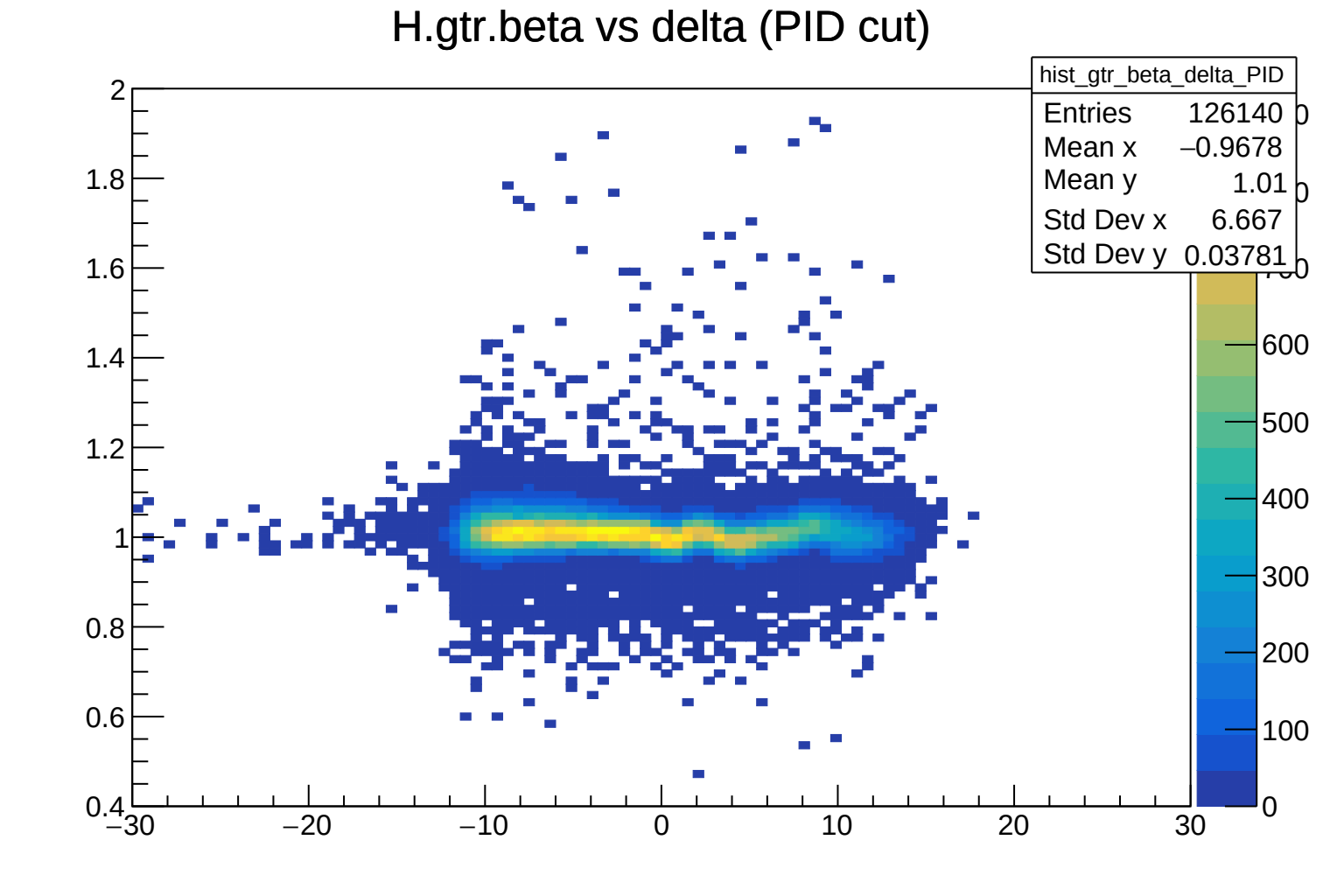

H.gtr.beta vs y_fp
hist_gtr_beta_yfp
Entries 165184
Mean x −0.0508
Mean y 1.01
Std Dev x 8.089
Std Dev y 0.04226
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
800
600
400
200
0

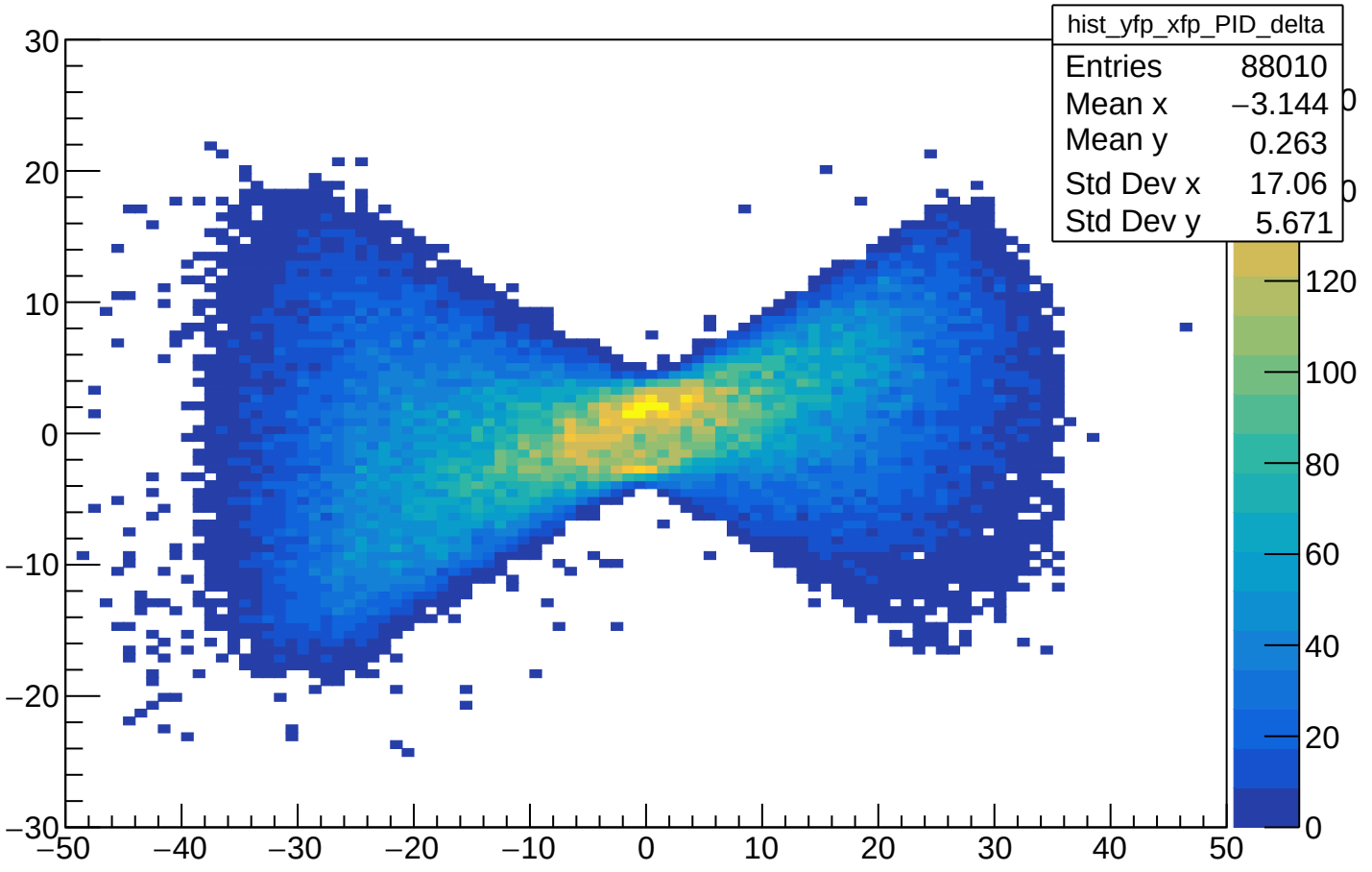

H.gtr.beta vs delta
hist_gtr_beta_delta
Entries 165184
Mean x −1.169
Mean y 1.01
Std Dev x 6.728
Std Dev y 0.0401
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
700
600
500
400
300
200
100
0

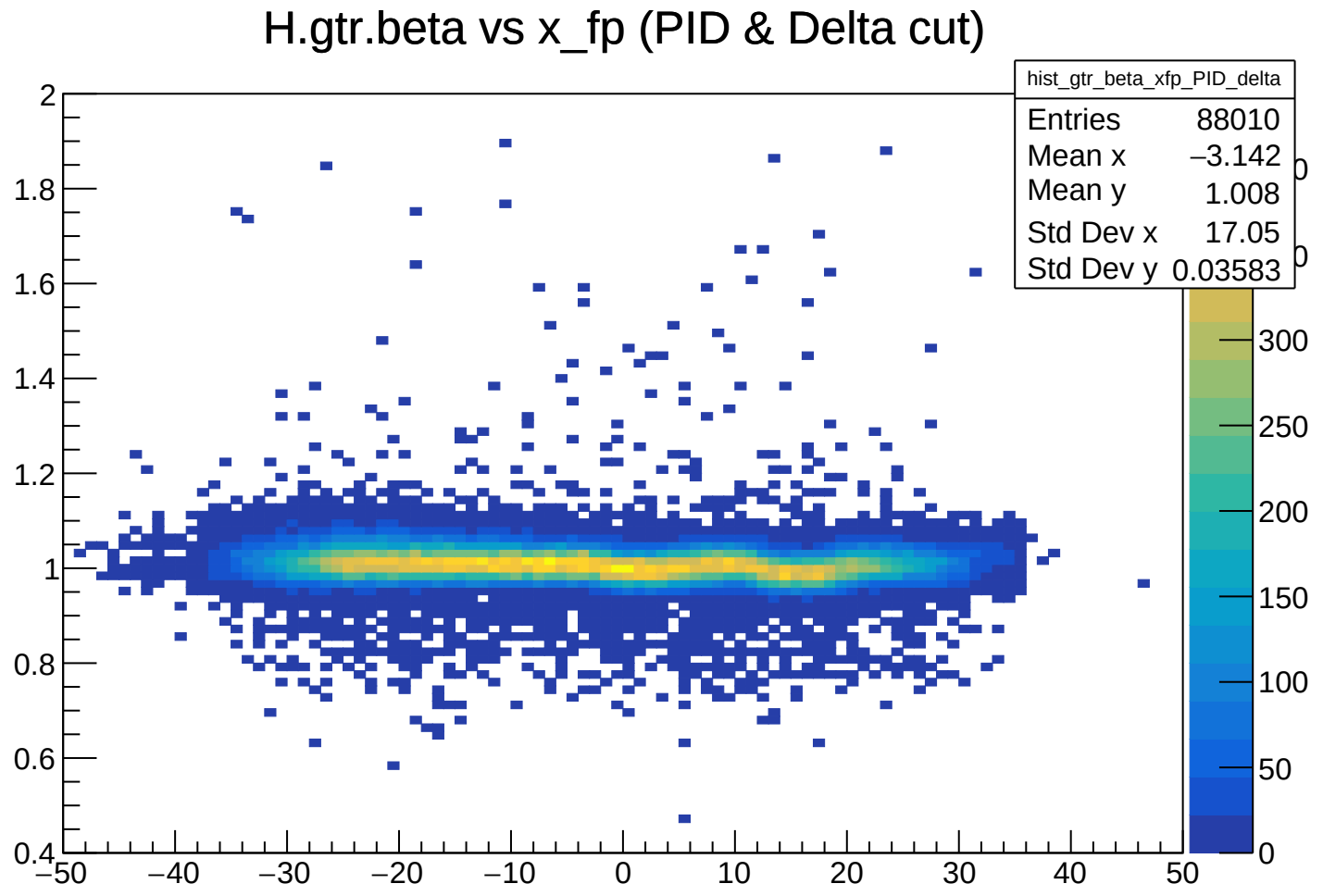

focal plane (PID cut)
hist_yfp_xfp_PID
Entries 126140
Mean x –4.621
Mean y 0.2274
Std Dev x 24.23
Std Dev y 7.729
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
120
100
80
60
40
20
0

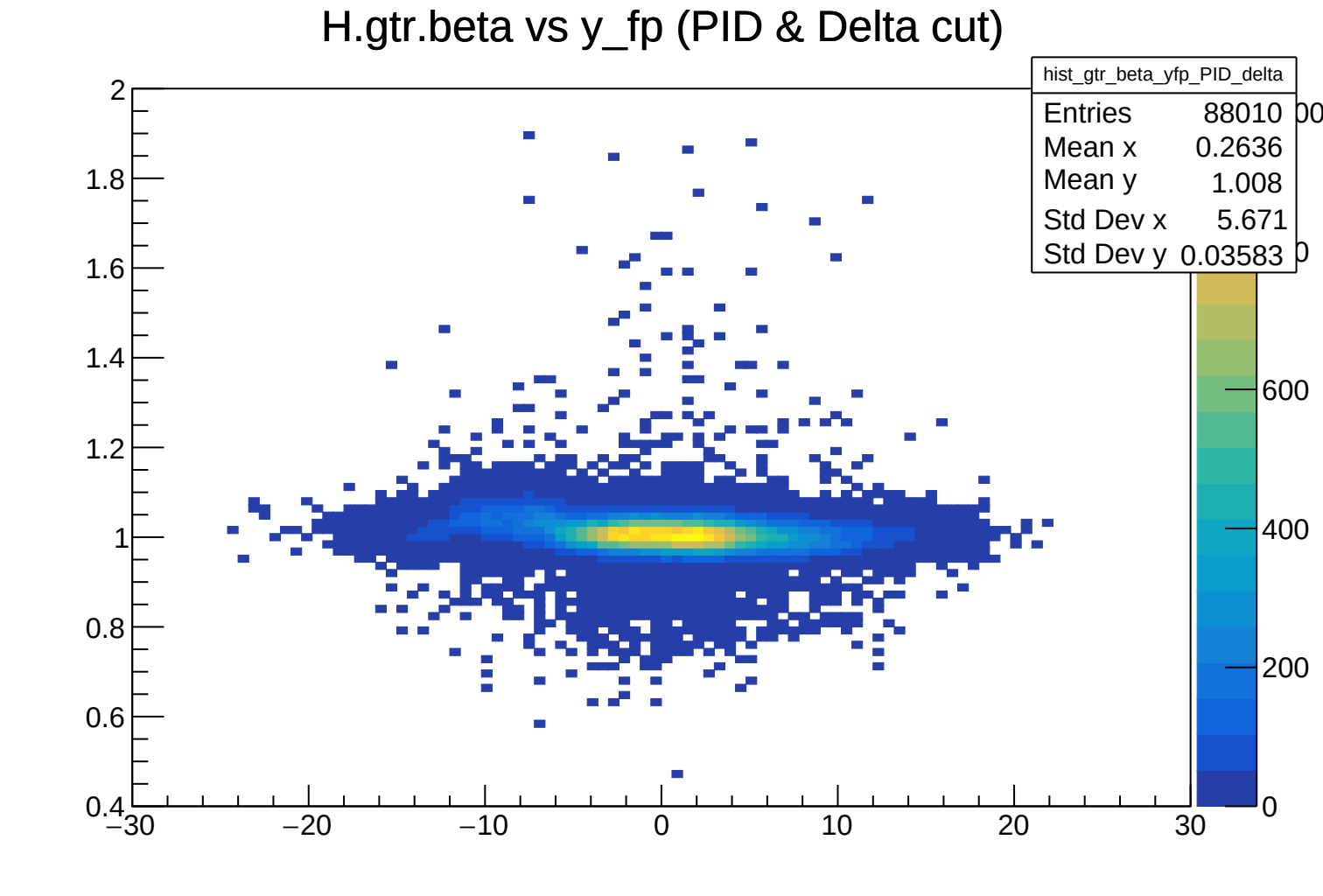

H.gtr.beta vs x_fp (PID cut)
hist_gtr_beta_xfp_PID
Entries 126140
Mean x –4.588
Mean y 1.01
Std Dev x 24.22
Std Dev y 0.03788
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
–50
–40
–30
–20
–10
0
10
20
30
40
50
300
250
200
150
100
50
0

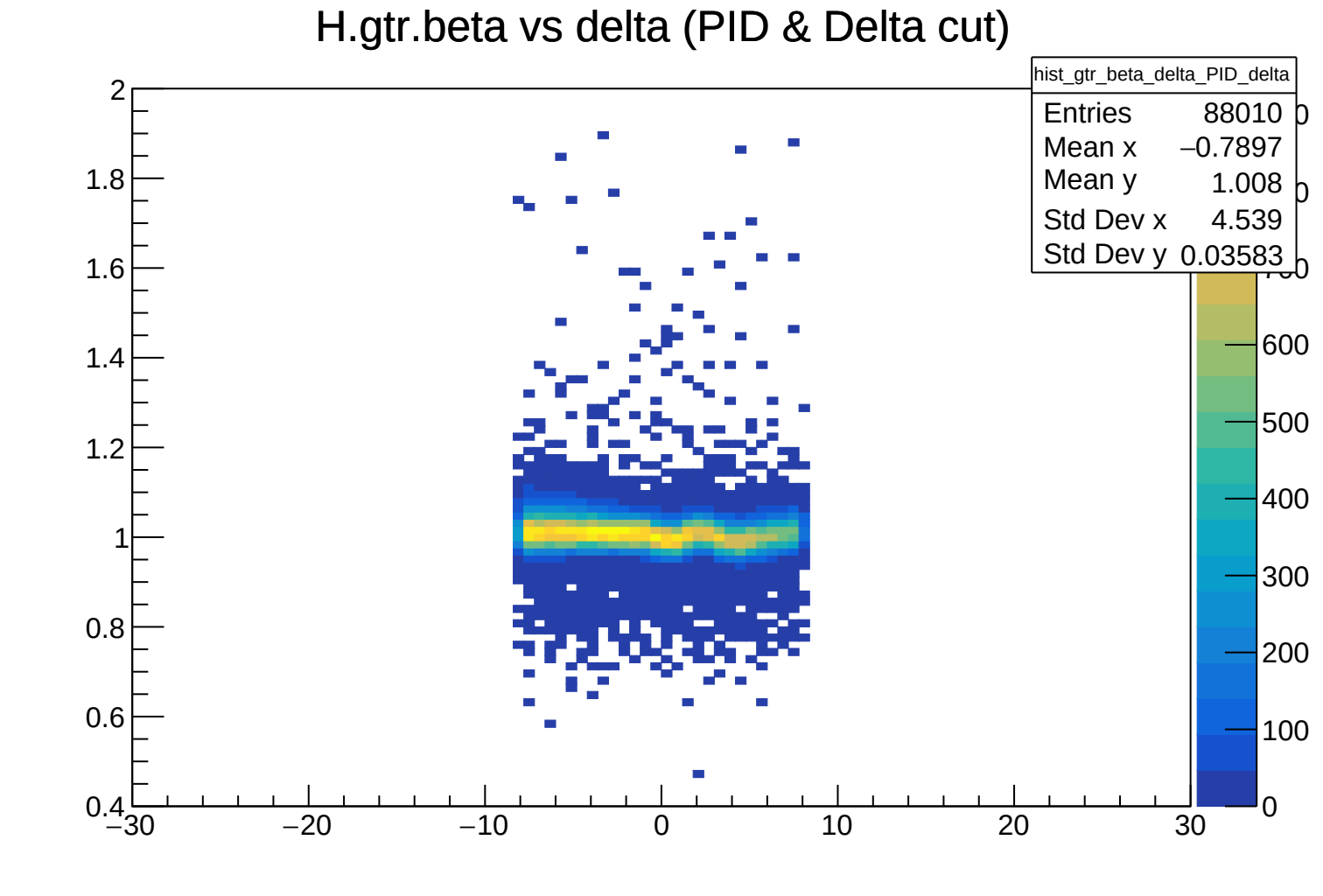

H.gtr.beta vs y_fp (PID cut)
hist_gtr_beta_yfp_PID
Entries 126140
Mean x 0.2284
Mean y 1.01
Std Dev x 7.729
Std Dev y 0.03788
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
800
600
400
200
0


H.gtr.beta vs delta (PID cut)
hist_gtr_beta_delta_PID
Entries 126140
Mean x −0.9678
Mean y 1.01
Std Dev x 6.667
Std Dev y 0.03781
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
600
500
400
300
200
100
0


focal plane (PID & Delta cut)
hist_yfp_xfp_PID_delta
Entries 88010
Mean x −3.144
Mean y 0.263
Std Dev x 17.06
Std Dev y 5.671
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
120
100
80
60
40
20
0


H.gtr.beta vs x_fp (PID & Delta cut)
hist_gtr_beta_xfp_PID_delta
Entries 88010
Mean x −3.142
Mean y 1.008
Std Dev x 17.05
Std Dev y 0.03583
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
300
250
200
150
100
50
0


H.gtr.beta vs y_fp (PID & Delta cut)
hist_gtr_beta_yfp_PID_delta
Entries 88010
Mean x 0.2636
Mean y 1.008
Std Dev x 5.671
Std Dev y 0.03583
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
600
400
200
0


H.gtr.beta vs delta (PID & Delta cut)
hist_gtr_beta_delta_PID_delta
Entries 88010
Mean x −0.7897
Mean y 1.008
Std Dev x 4.539
Std Dev y 0.03583
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
600
500
400
300
200
100
0