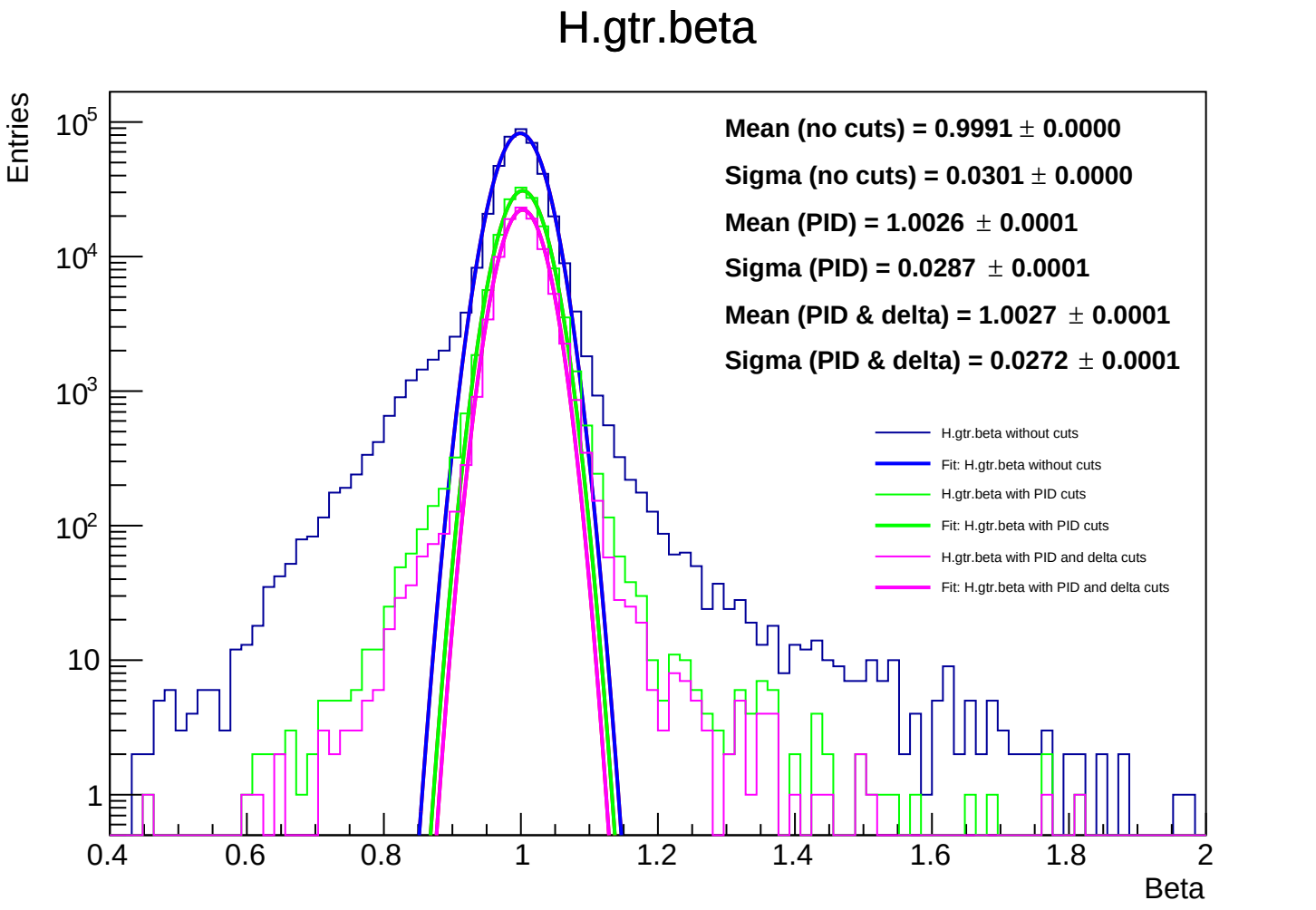
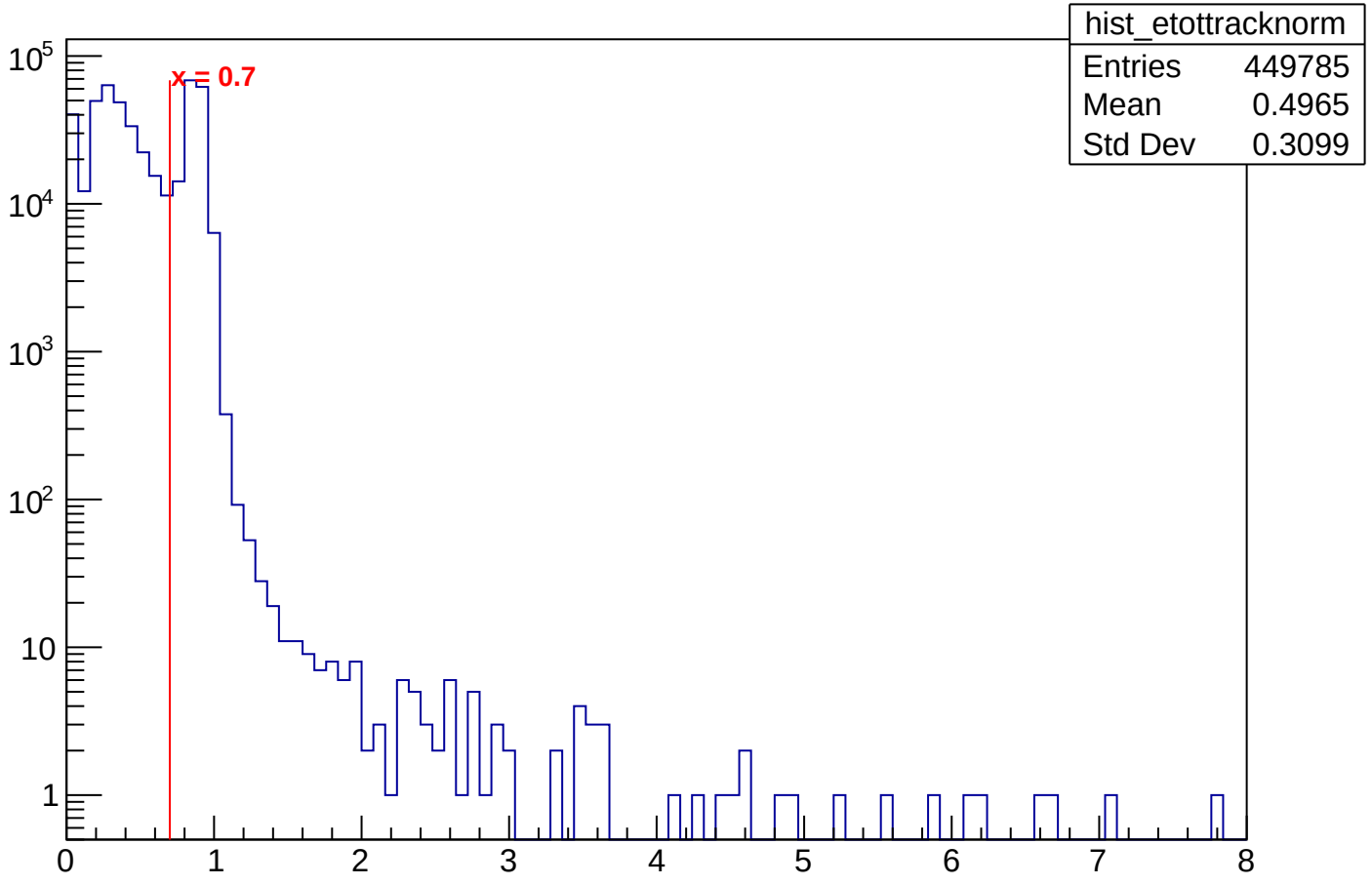
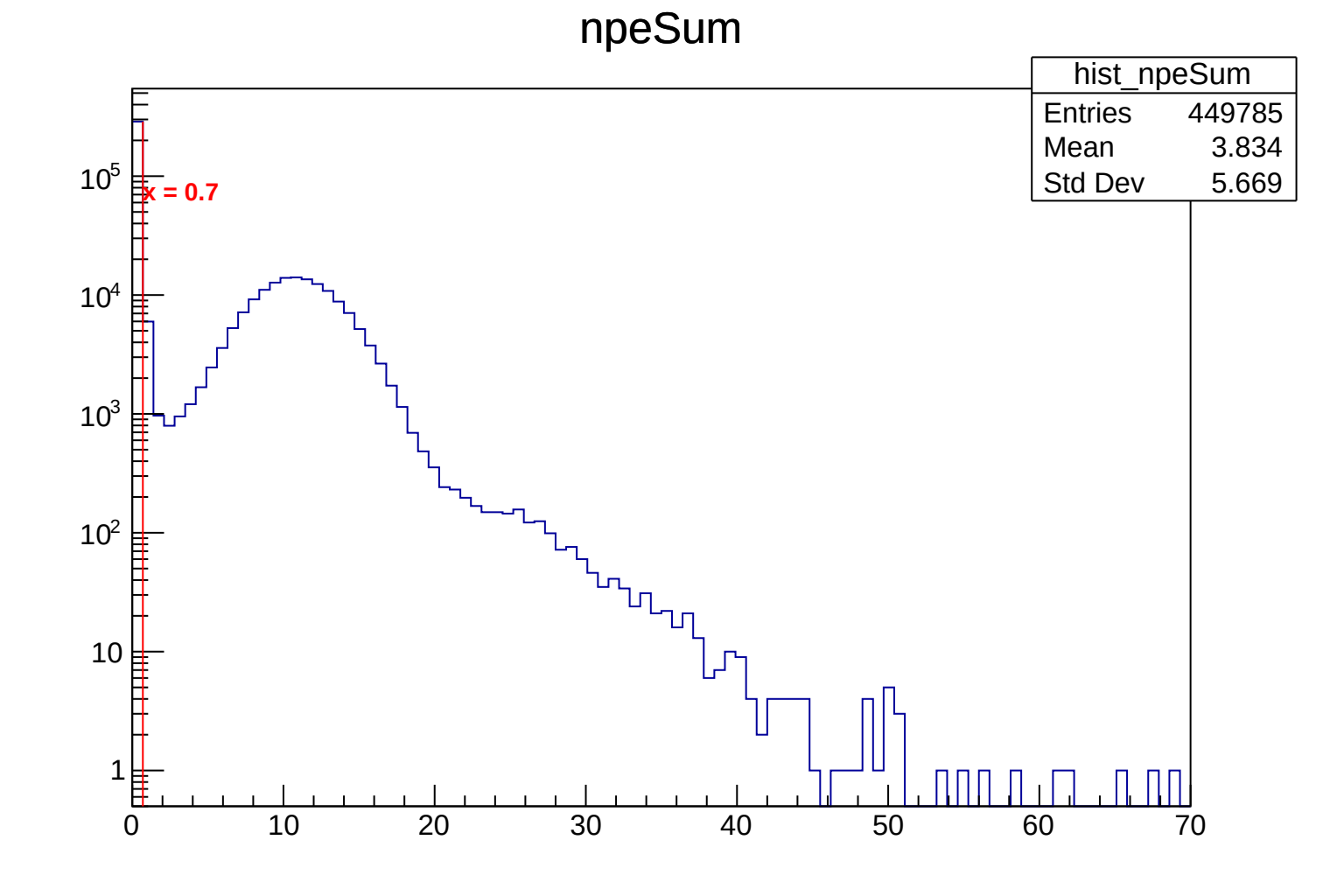
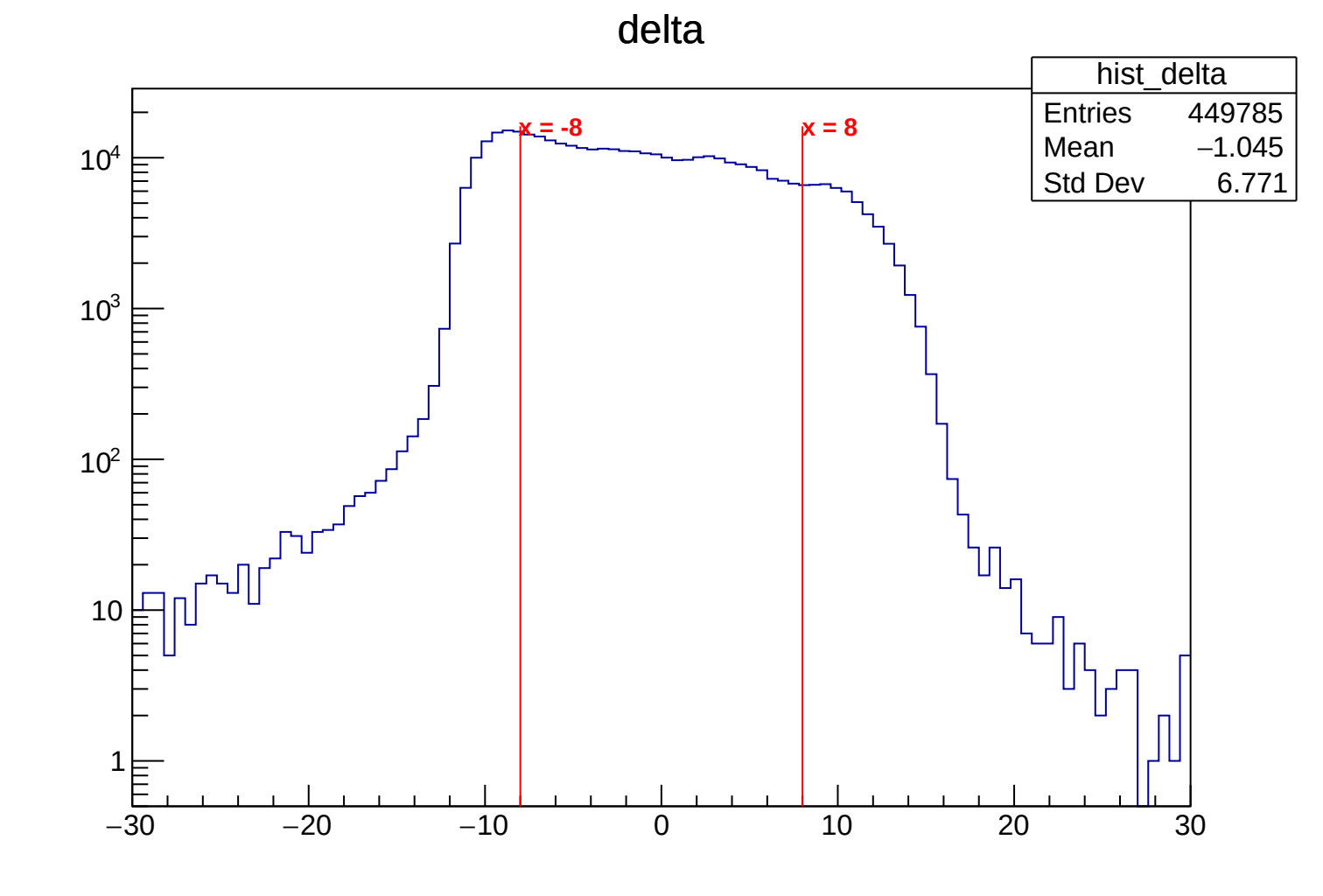
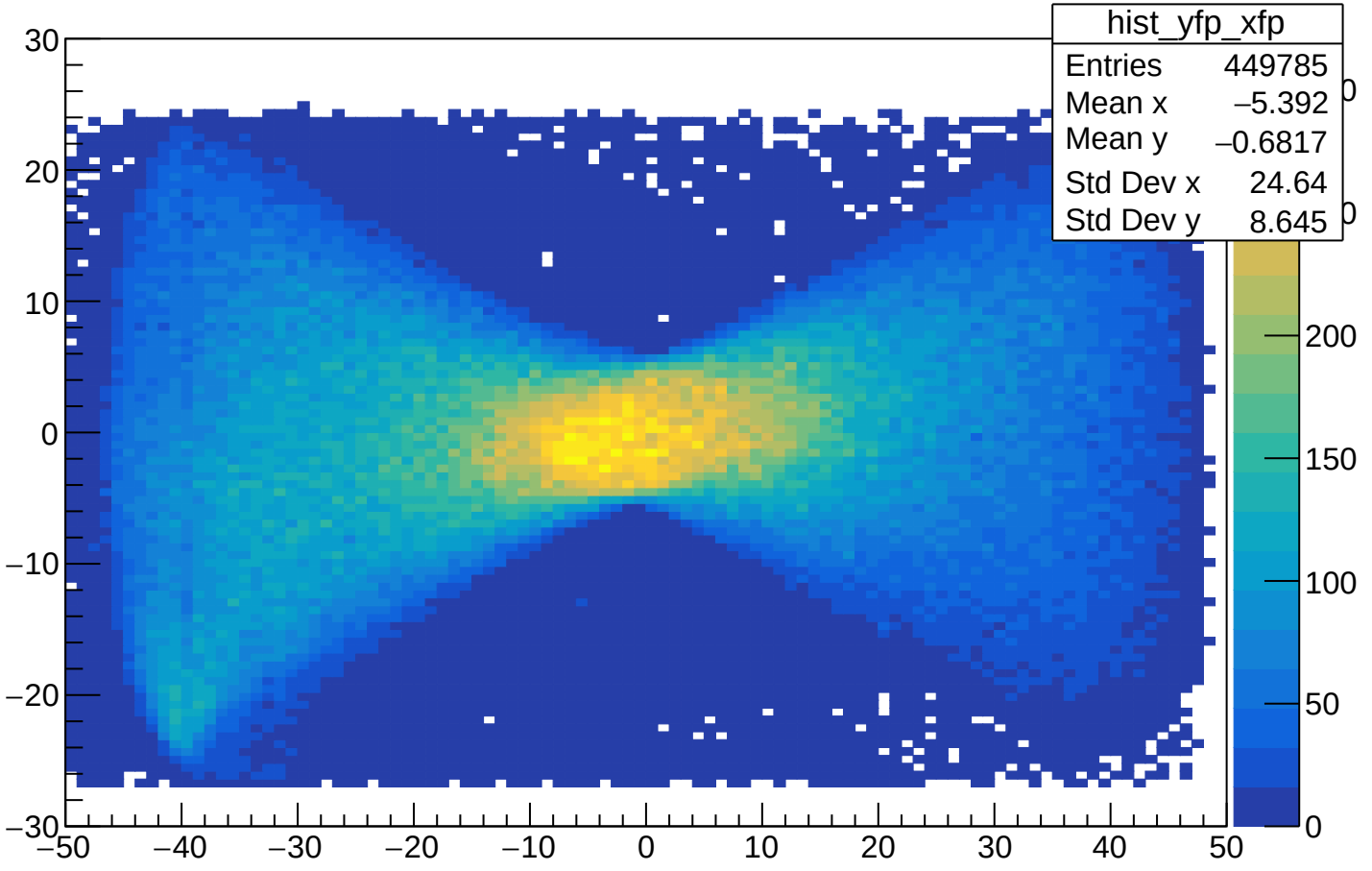
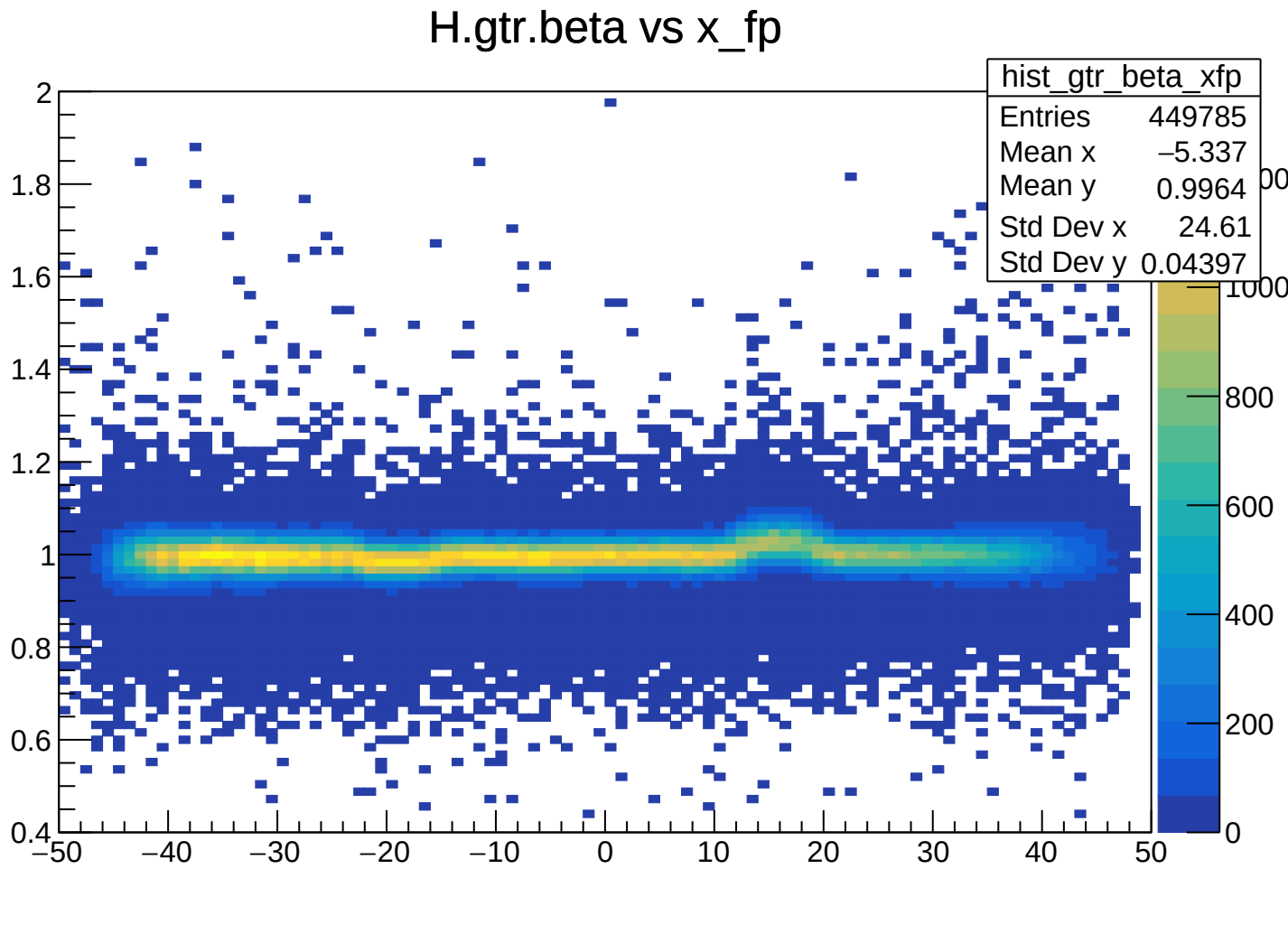

H.gtr.beta
Entries
Beta
Mean (no cuts) = 0.9991 ± 0.0000
Sigma (no cuts) = 0.0301 ± 0.0000
Mean (PID) = 1.0026 ± 0.0001
Sigma (PID) = 0.0287 ± 0.0001
Mean (PID & delta) = 1.0027 ± 0.0001
Sigma (PID & delta) = 0.0272 ± 0.0001
H.gtr.beta without cuts
Fit: H.gtr.beta without cuts
H.gtr.beta with PID cuts
Fit: H.gtr.beta with PID cuts
H.gtr.beta with PID and delta cuts
Fit: H.gtr.beta with PID and delta cuts

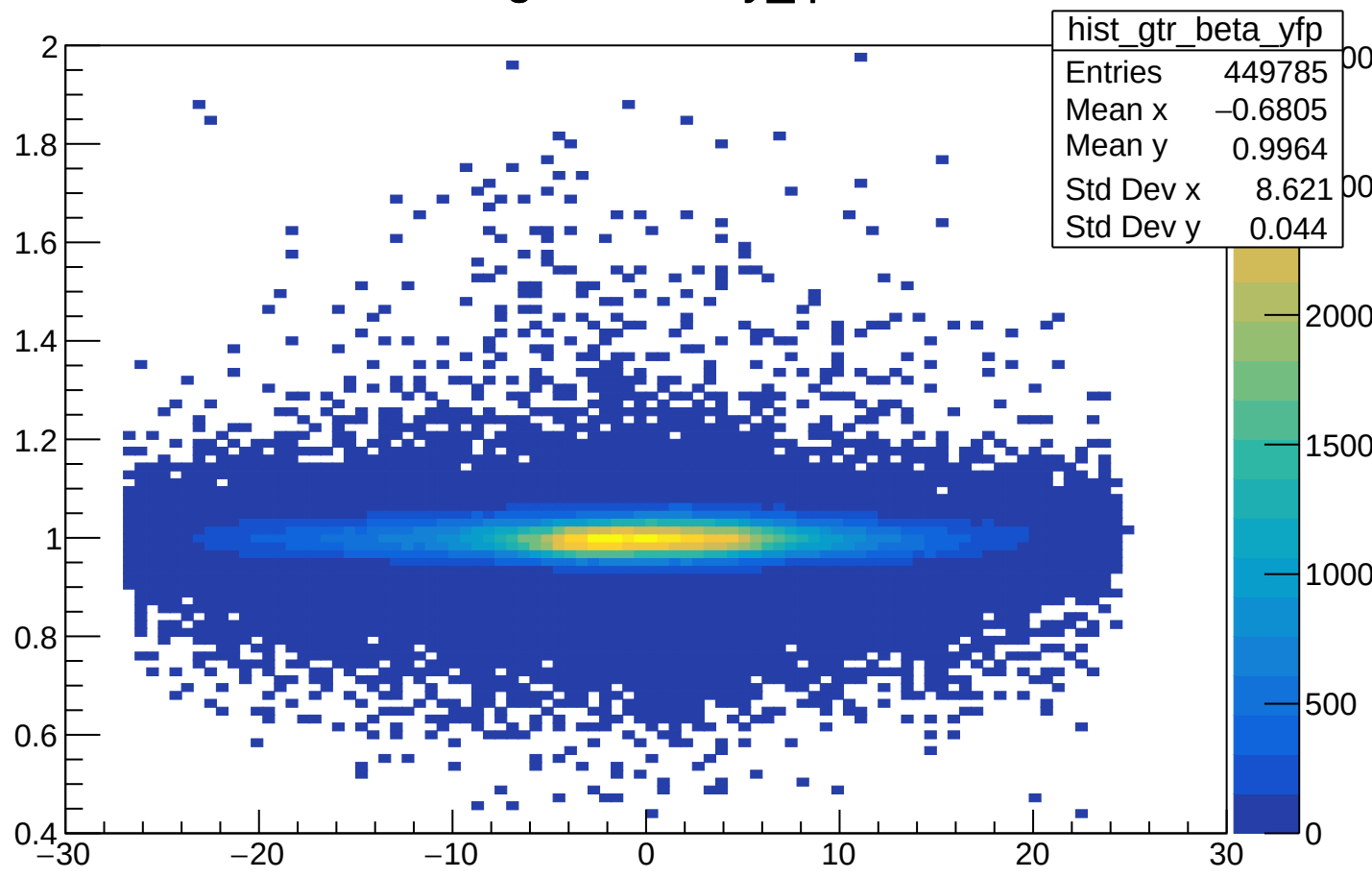

etottracknorm
hist_etottracknorm
Entries 449785
Mean 0.4965
Std Dev 0.3099
x = 0.7
10^5
10^4
10^3
10^2
10
1
0
1
2
3
4
5
6
7
8

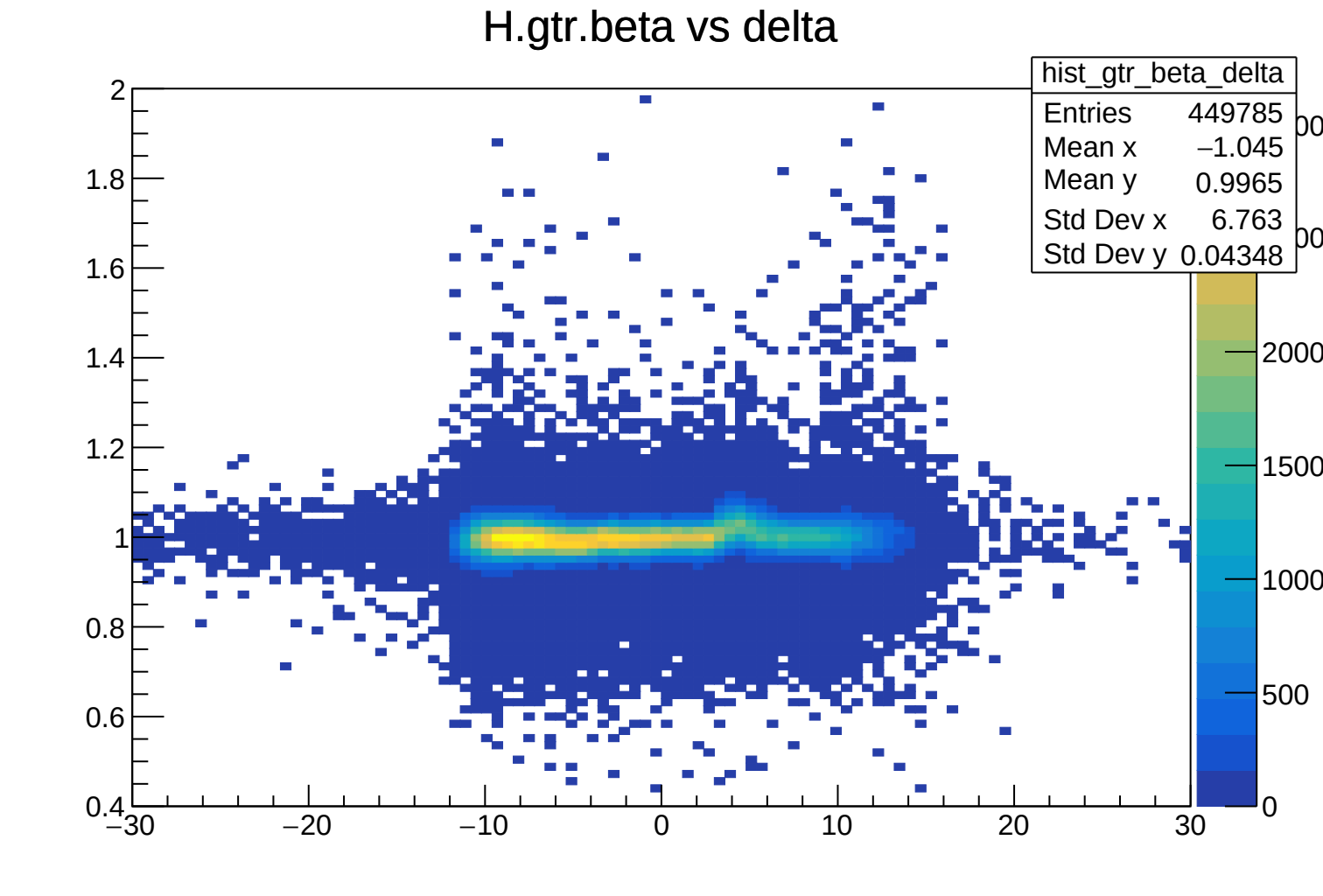

npeSum
hist_npeSum
Entries 449785
Mean 3.834
Std Dev 5.669
x = 0.7
10^5
10^4
10^3
10^2
10
1
0
10
20
30
40
50
60
70

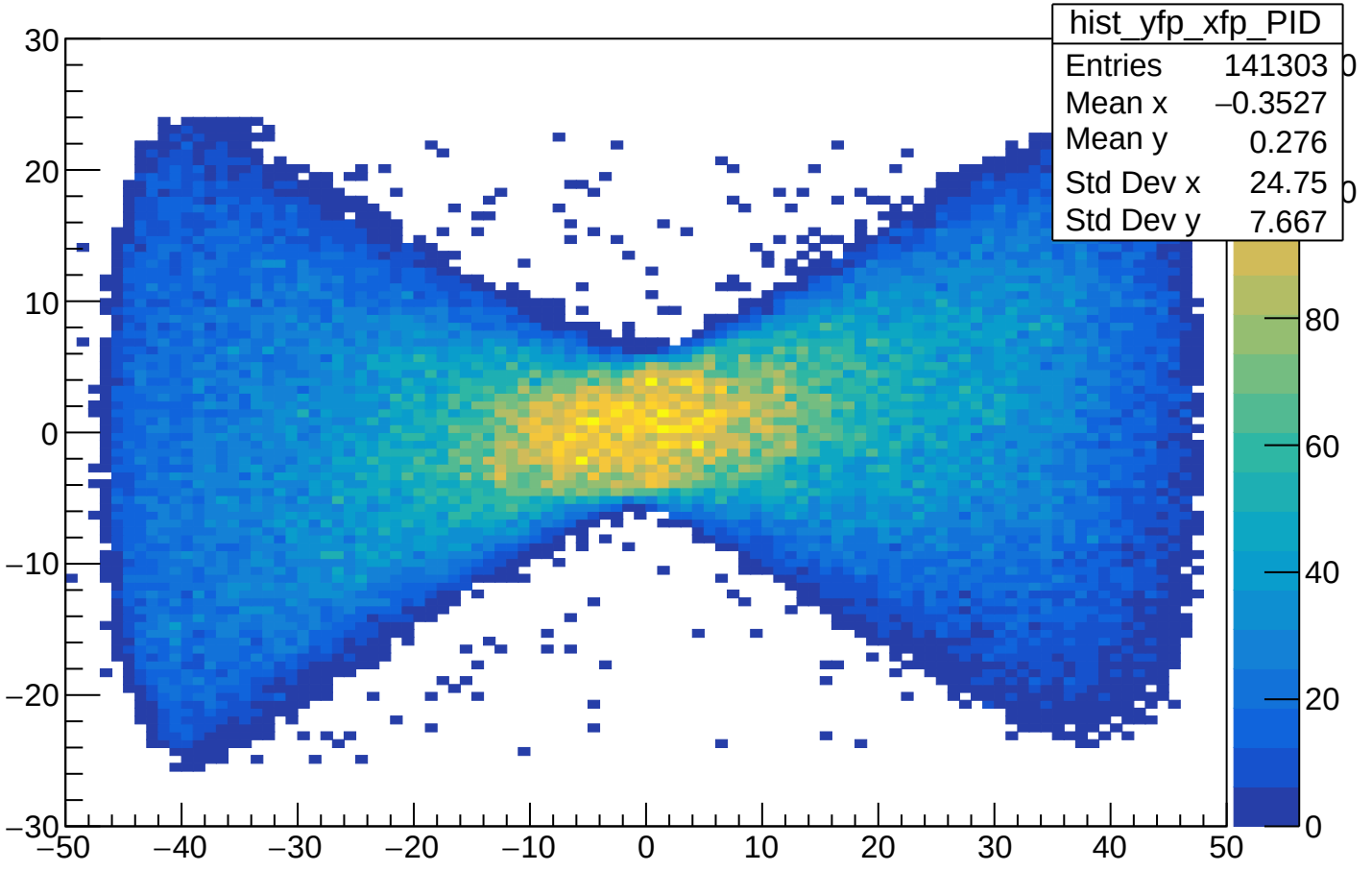

delta
hist_delta
Entries 449785
Mean –1.045
Std Dev 6.771
x = -8
x = 8
10^4
10^3
10^2
10
1
–30
–20
–10
0
10
20
30

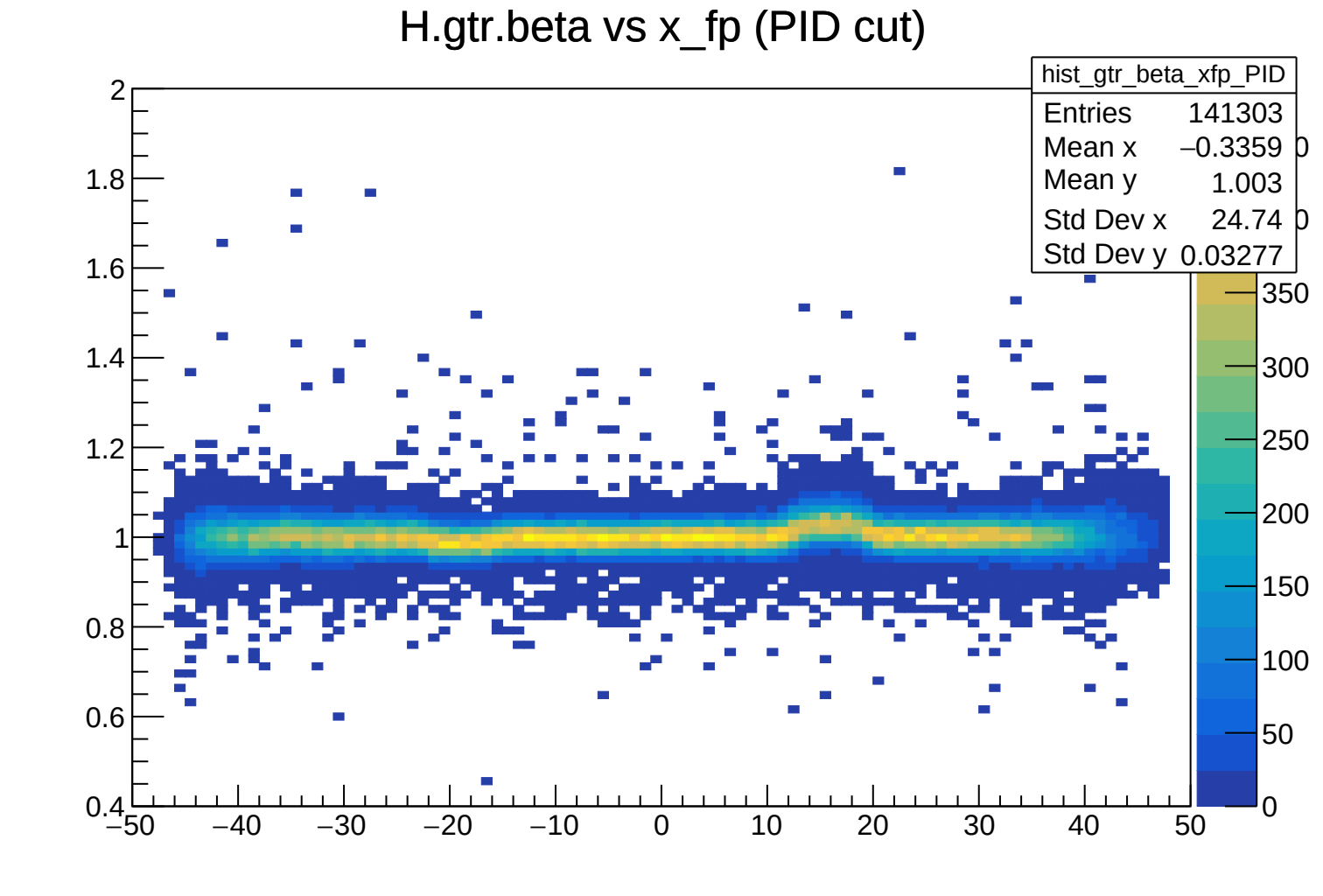

focal plane
hist_yfp_xfp
Entries 449785
Mean x −5.392
Mean y −0.6817
Std Dev x 24.64
Std Dev y 8.645
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
200
150
100
50
0

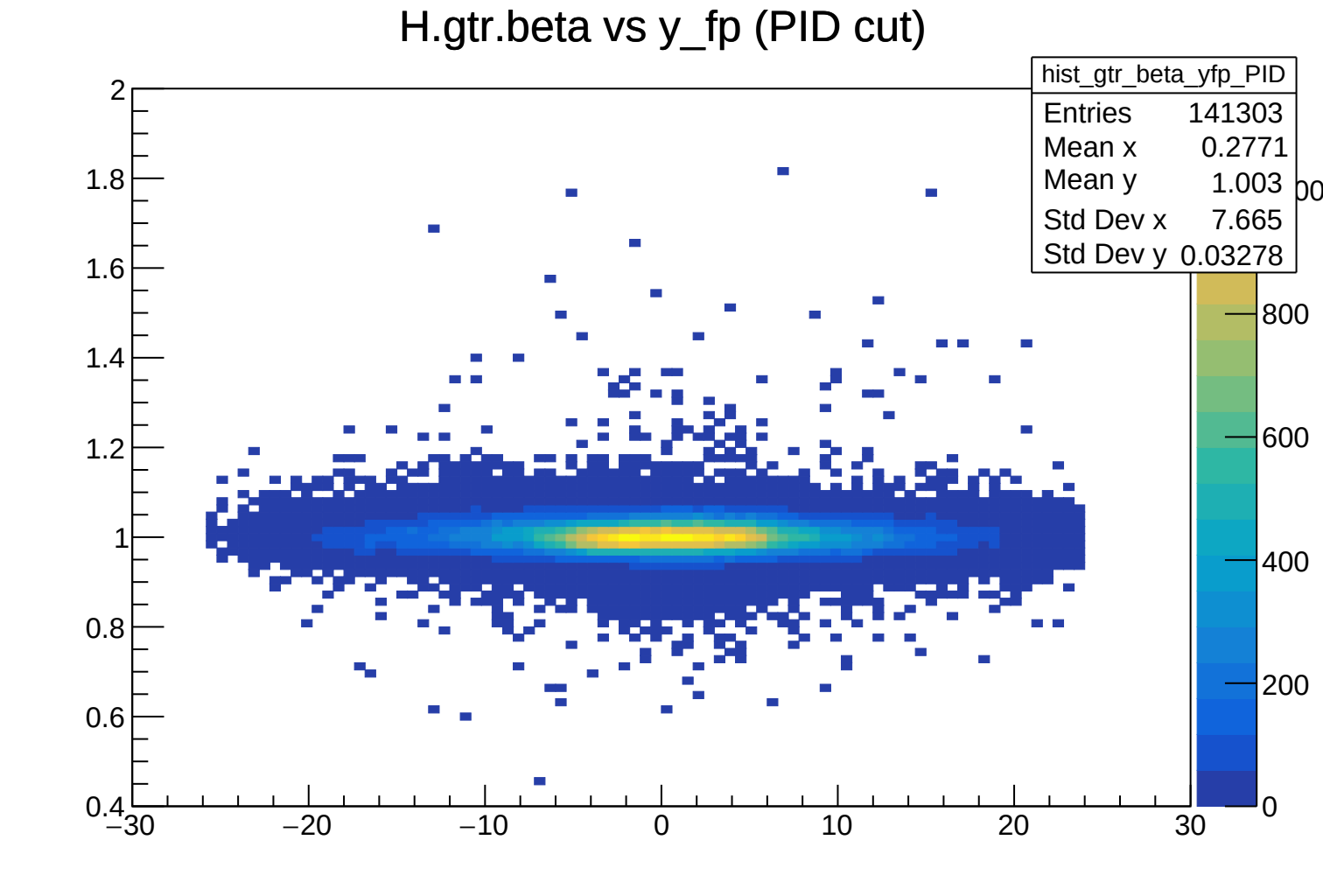

H.gtr.beta vs x_fp
hist_gtr_beta_xfp
Entries 449785
Mean x –5.337
Mean y 0.9964
Std Dev x 24.61
Std Dev y 0.04397
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
–50
–40
–30
–20
–10
0
10
20
30
40
50
1000
800
600
400
200
0

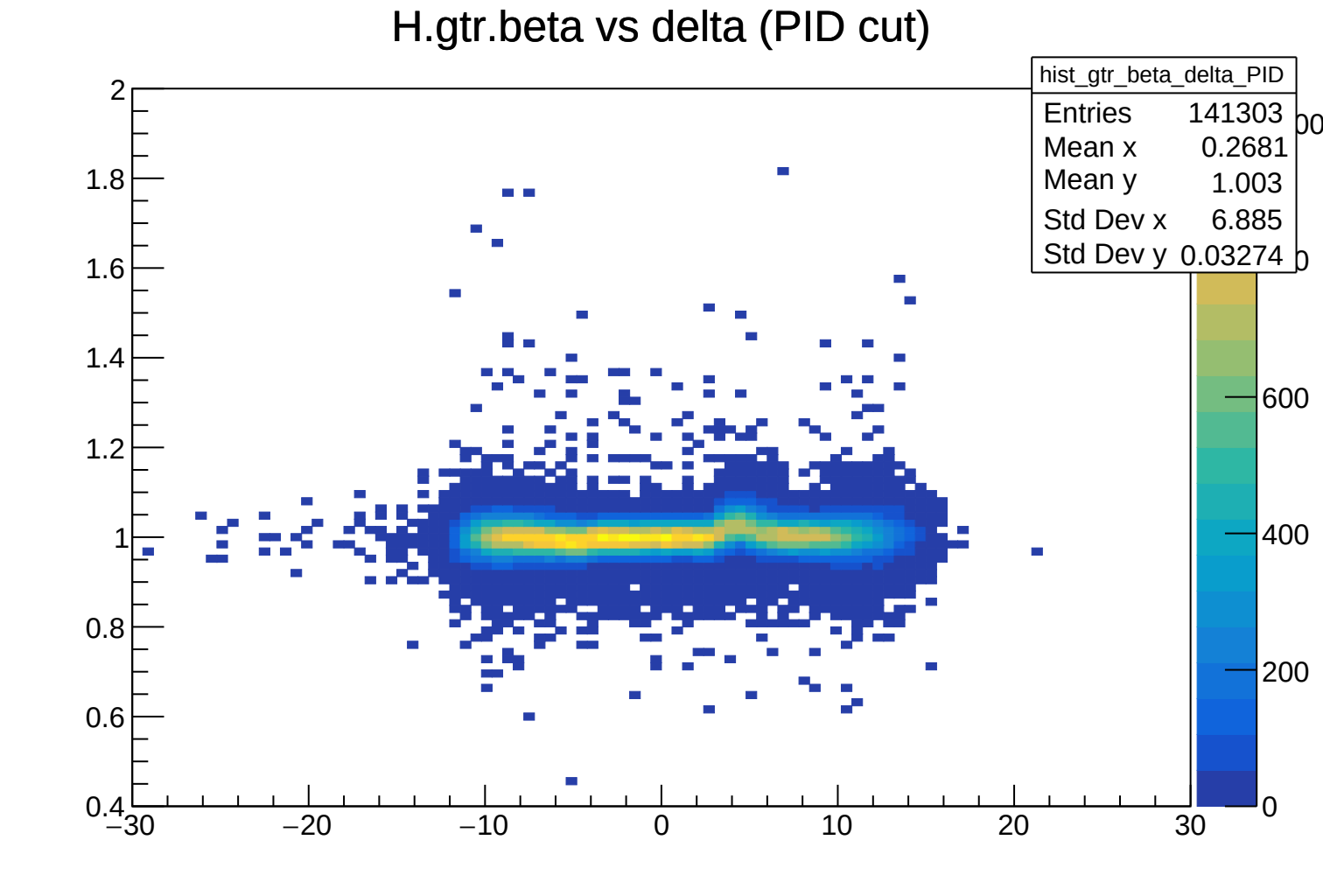

H.gtr.beta vs y_fp
hist_gtr_beta_yfp
Entries 449785
Mean x −0.6805
Mean y 0.9964
Std Dev x 8.621
Std Dev y 0.044
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
2000
1500
1000
500
0

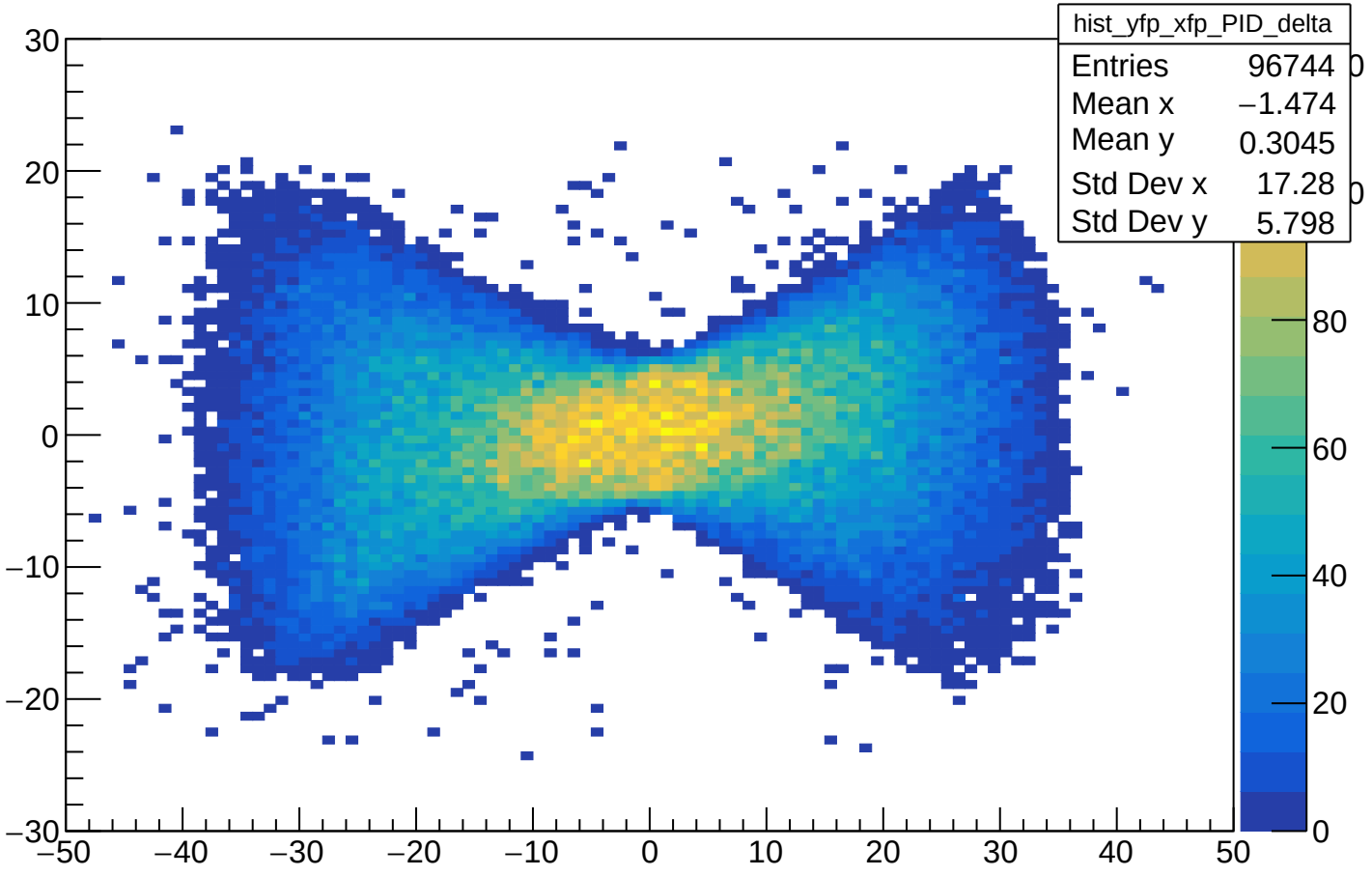

H.gtr.beta vs delta
hist_gtr_beta_delta
Entries 449785
Mean x −1.045
Mean y 0.9965
Std Dev x 6.763
Std Dev y 0.04348
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
2000
1500
1000
500
0

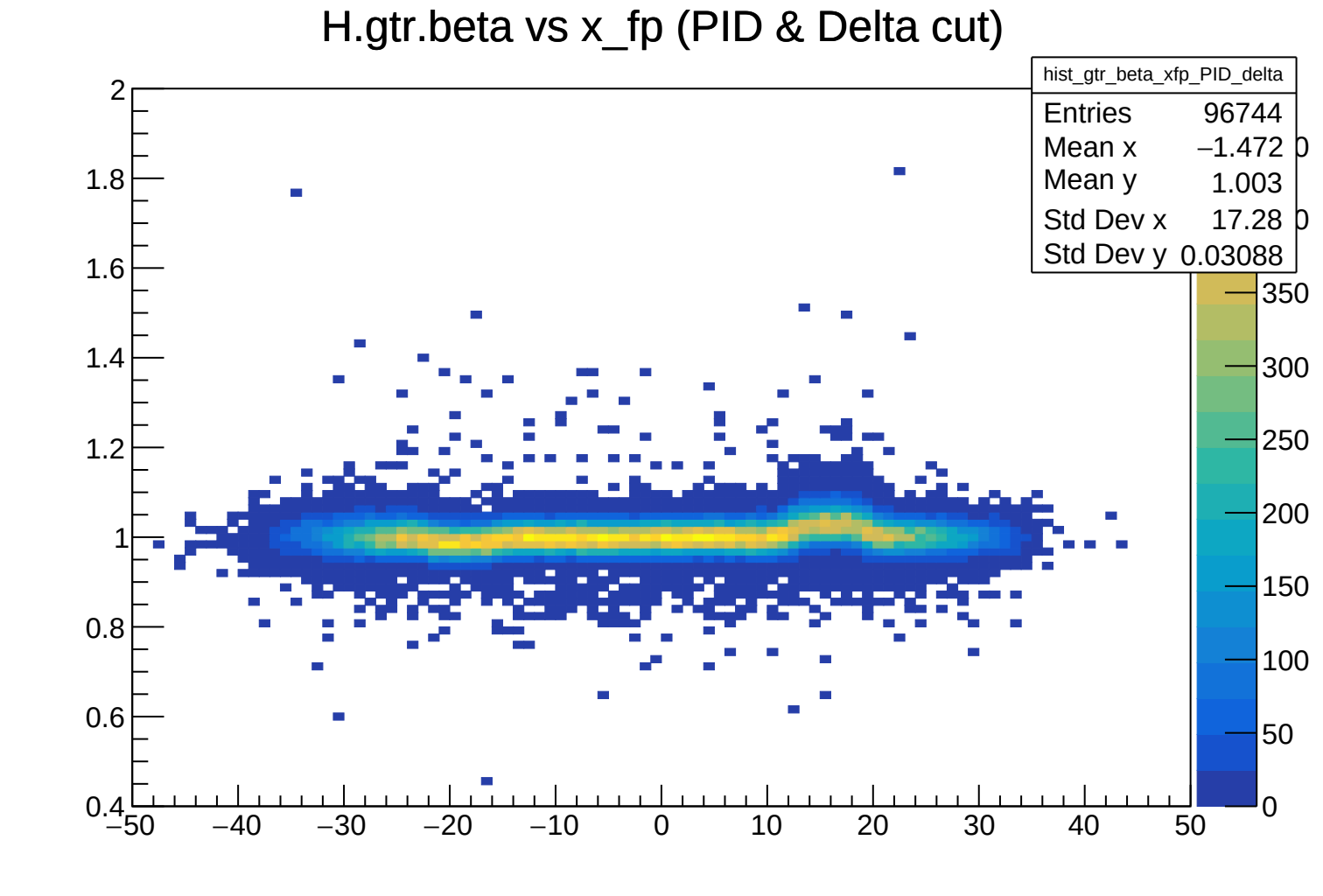

focal plane (PID cut)
hist_yfp_xfp_PID
Entries 141303
Mean x −0.3527
Mean y 0.276
Std Dev x 24.75
Std Dev y 7.667
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
80
60
40
20
0

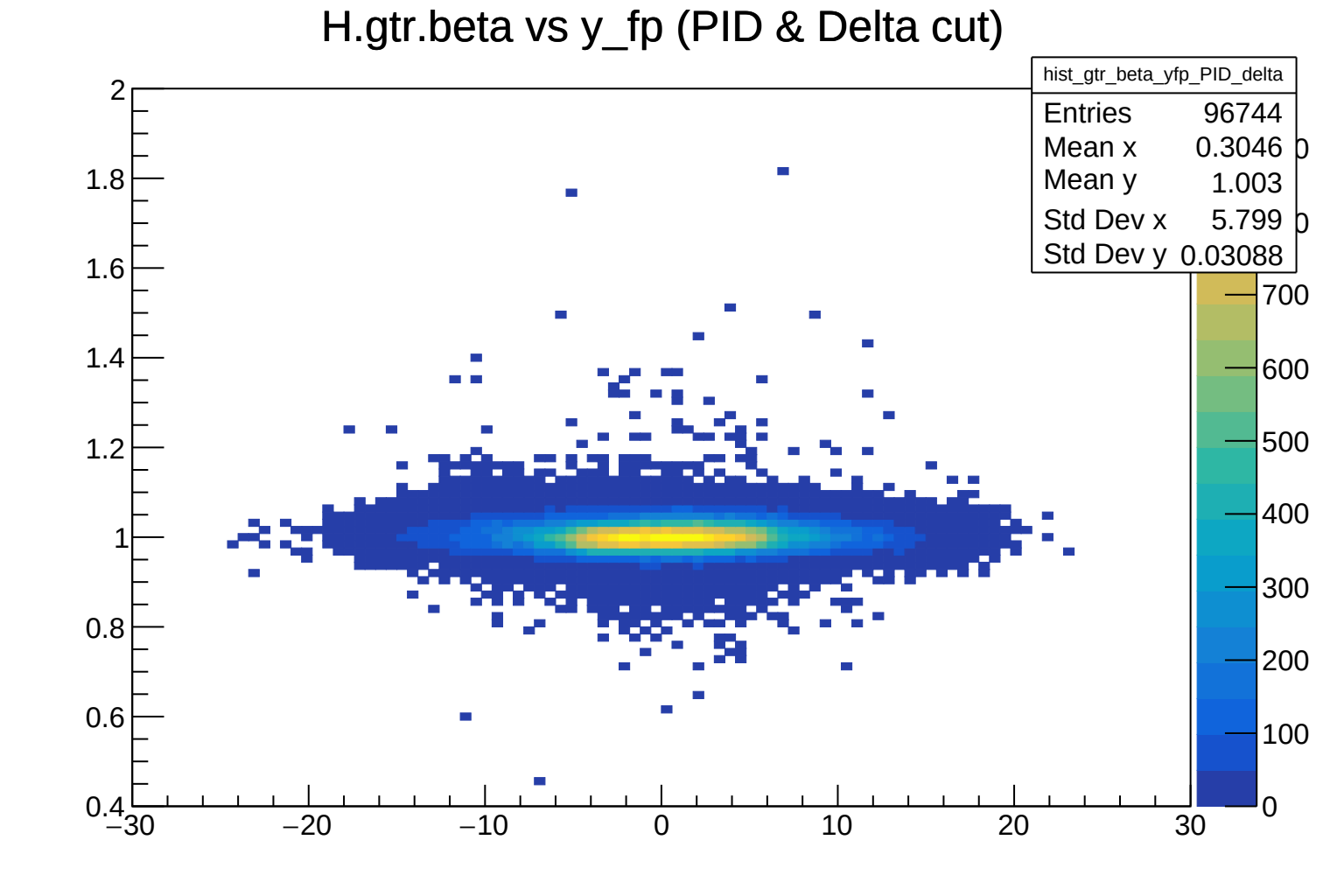

H.gtr.beta vs x_fp (PID cut)
hist_gtr_beta_xfp_PID
Entries 141303
Mean x −0.3359
Mean y 1.003
Std Dev x 24.74
Std Dev y 0.03277
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−50
−40
−30
−20
−10
0
10
20
30
40
50
350
300
250
200
150
100
50
0

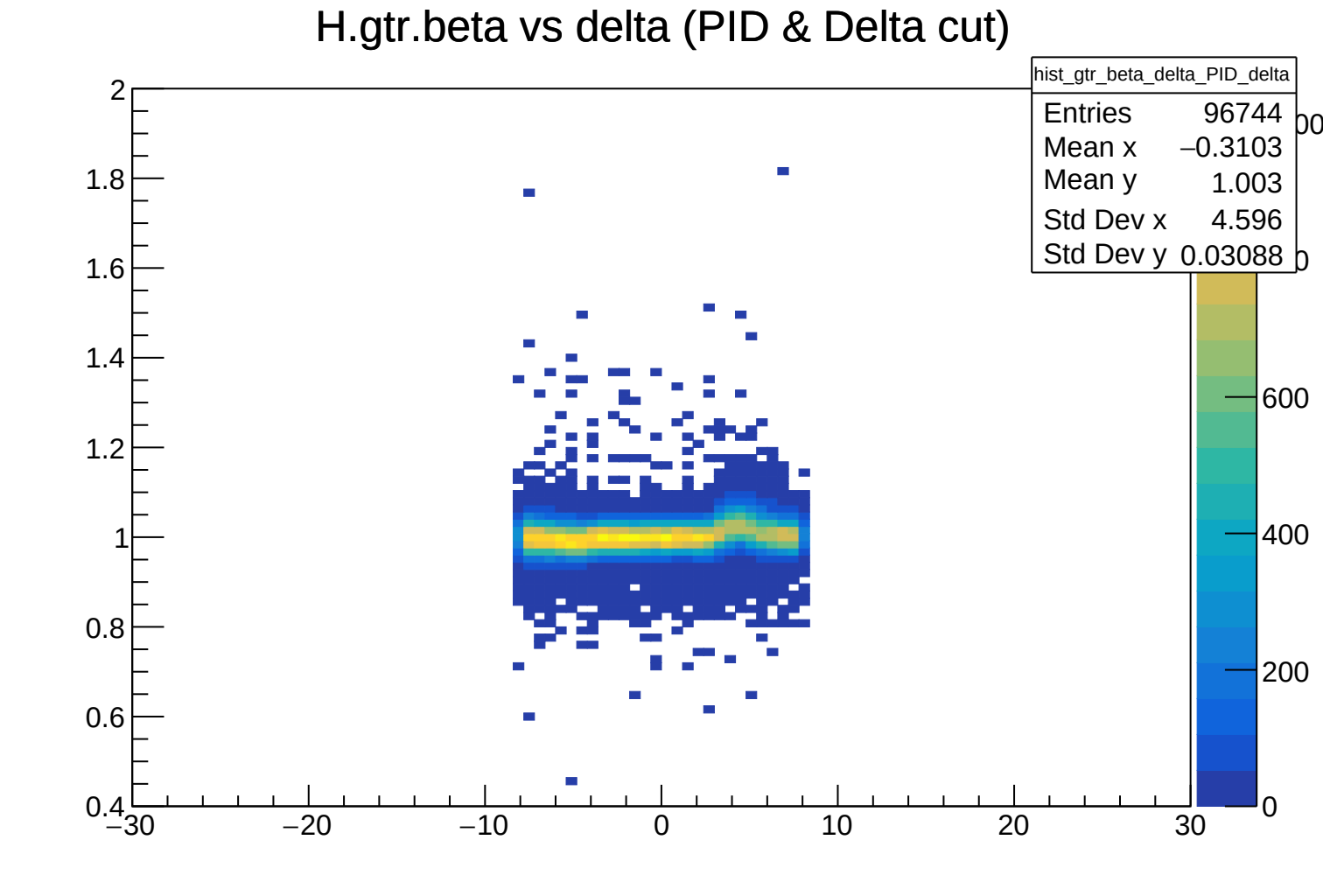

H.gtr.beta vs y_fp (PID cut)
hist_gtr_beta_yfp_PID
Entries 141303
Mean x 0.2771
Mean y 1.003
Std Dev x 7.665
Std Dev y 0.03278
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
800
600
400
200
0


H.gtr.beta vs delta (PID cut)
hist_gtr_beta_delta_PID
Entries 141303
Mean x 0.2681
Mean y 1.003
Std Dev x 6.885
Std Dev y 0.03274
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


focal plane (PID & Delta cut)
hist_yfp_xfp_PID_delta
Entries 96744
Mean x −1.474
Mean y 0.3045
Std Dev x 17.28
Std Dev y 5.798
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
80
60
40
20
0


H.gtr.beta vs x_fp (PID & Delta cut)
hist_gtr_beta_xfp_PID_delta
Entries 96744
Mean x −1.472
Mean y 1.003
Std Dev x 17.28
Std Dev y 0.03088
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
350
300
250
200
150
100
50
0


H.gtr.beta vs y_fp (PID & Delta cut)
hist_gtr_beta_yfp_PID_delta
Entries 96744
Mean x 0.3046
Mean y 1.003
Std Dev x 5.799
Std Dev y 0.03088
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


H.gtr.beta vs delta (PID & Delta cut)
hist_gtr_beta_delta_PID_delta
Entries 96744
Mean x −0.3103
Mean y 1.003
Std Dev x 4.596
Std Dev y 0.03088
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