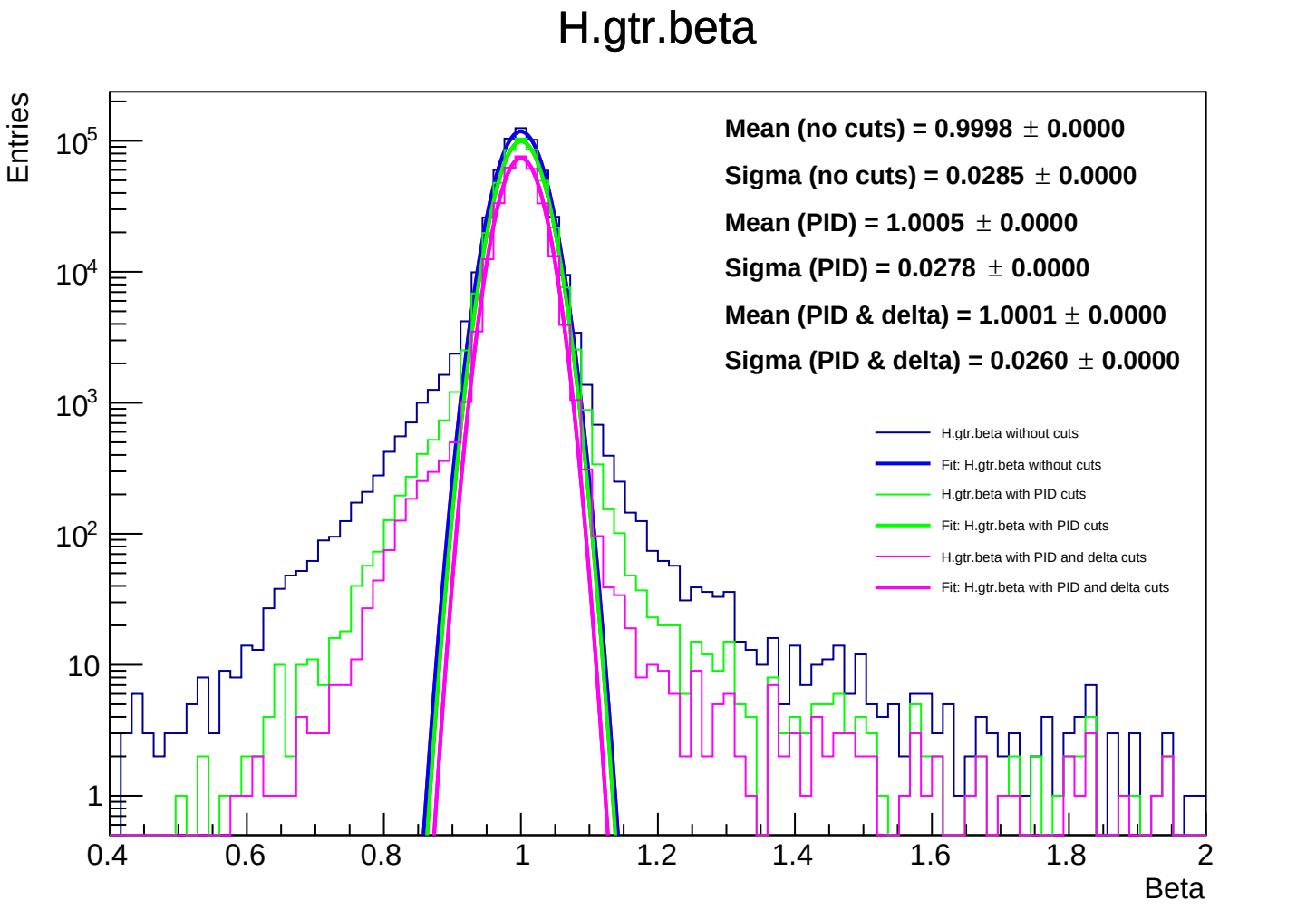
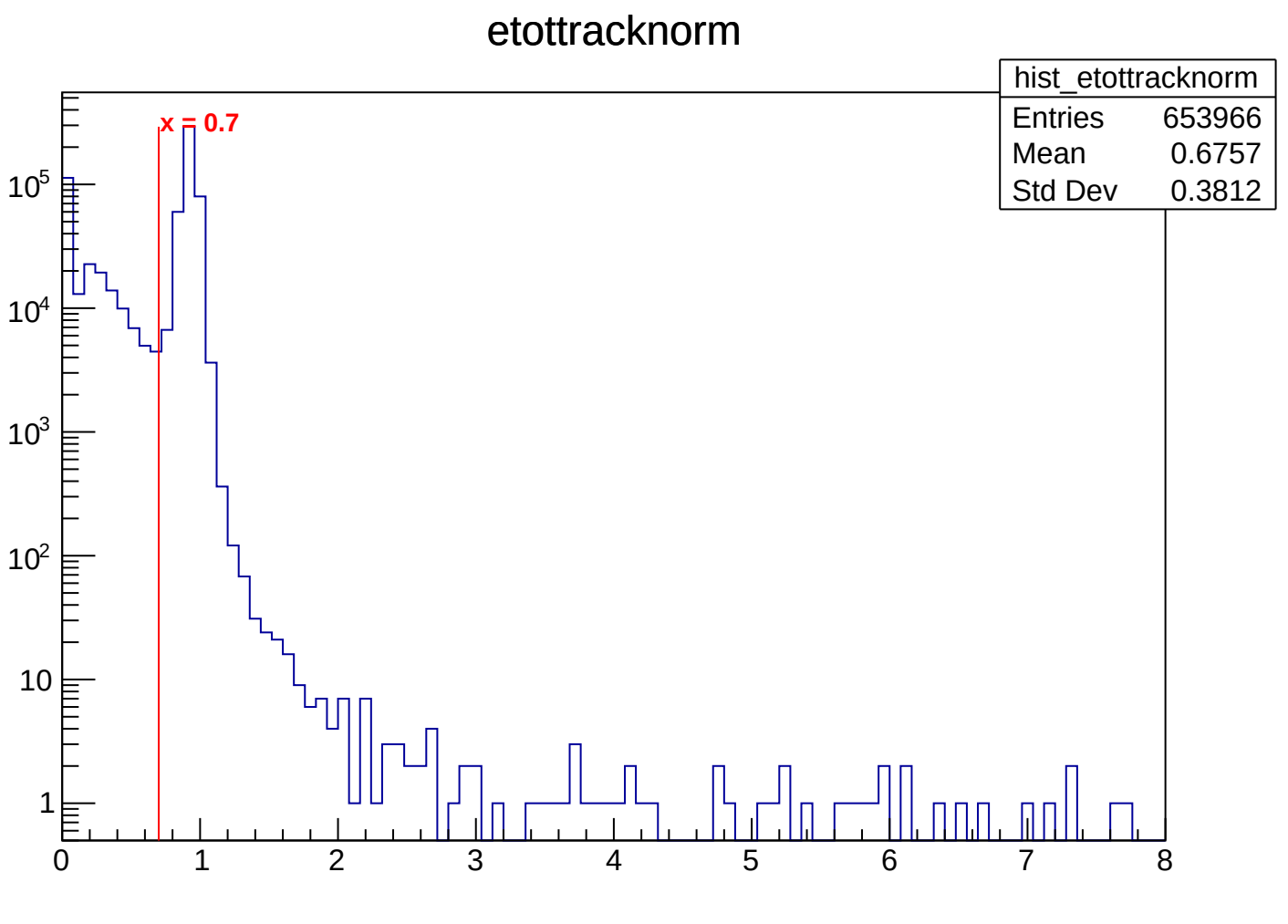
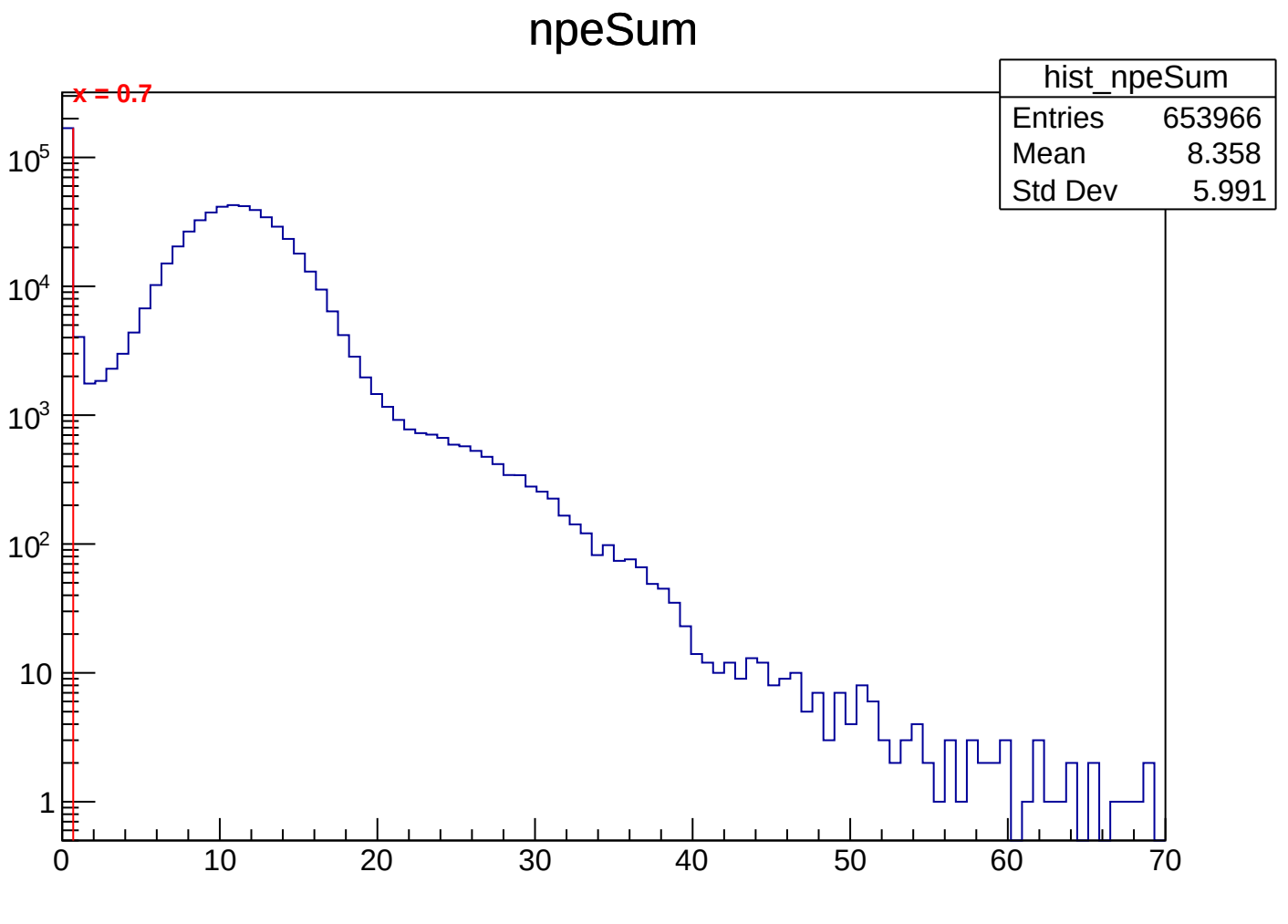
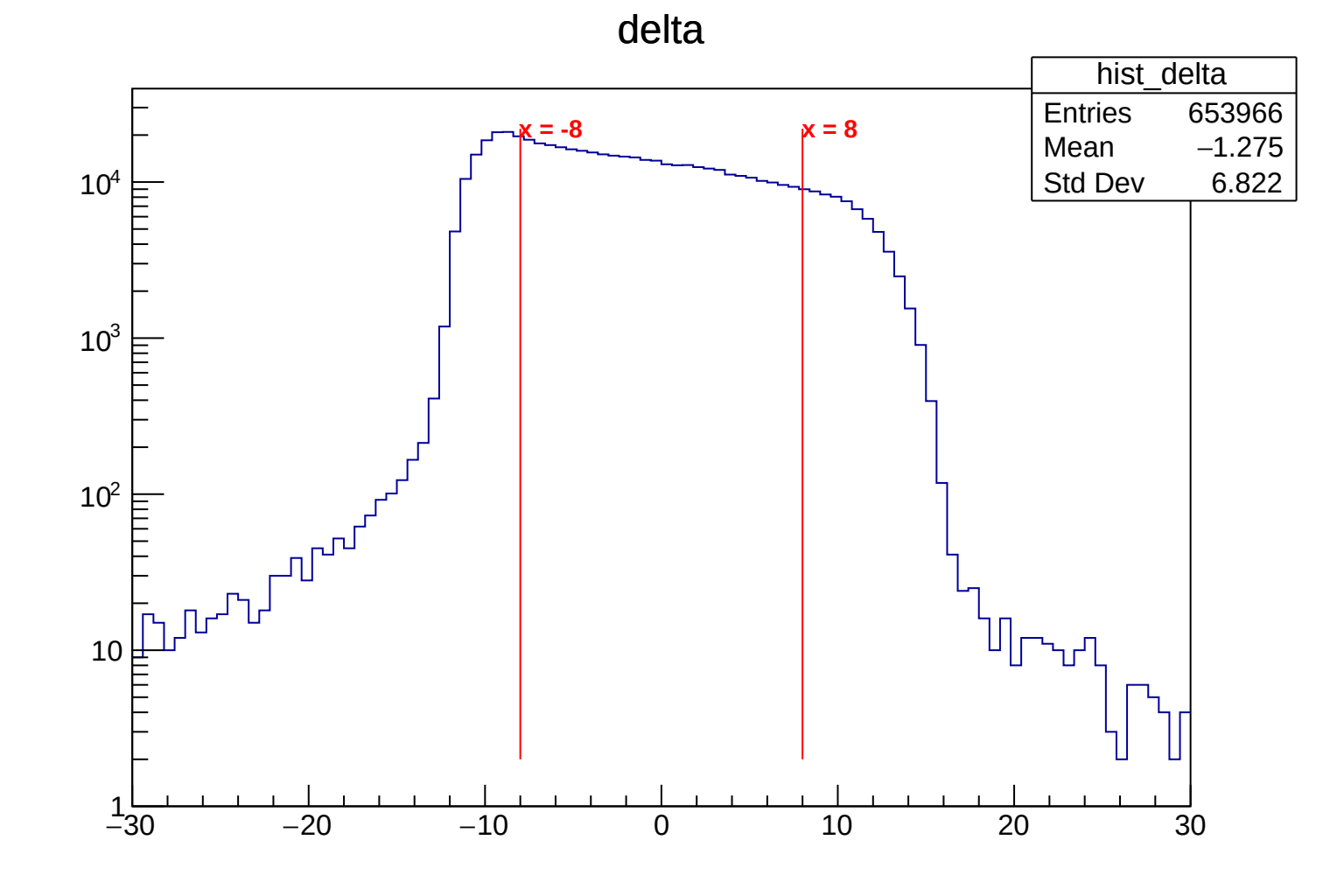
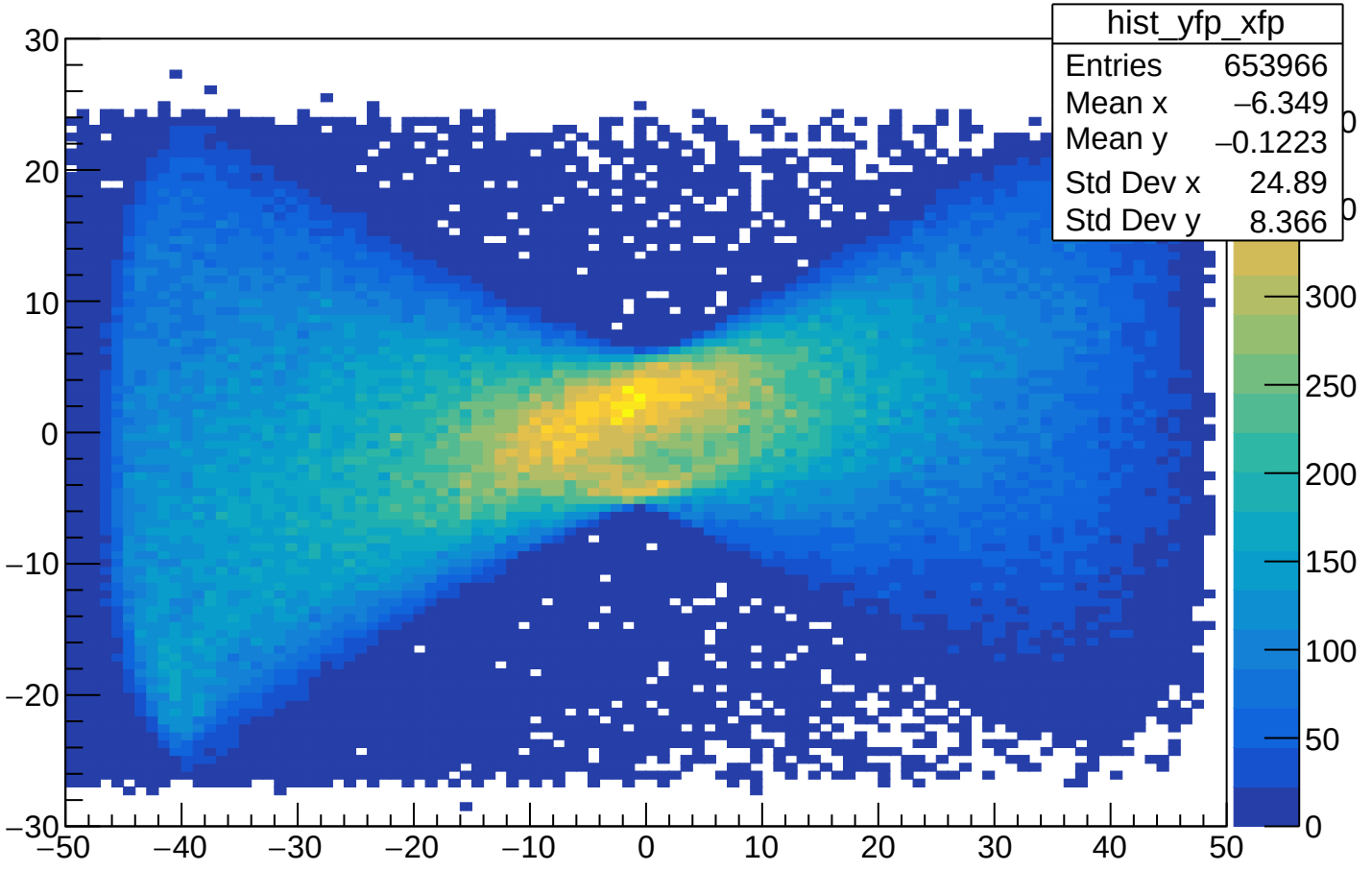
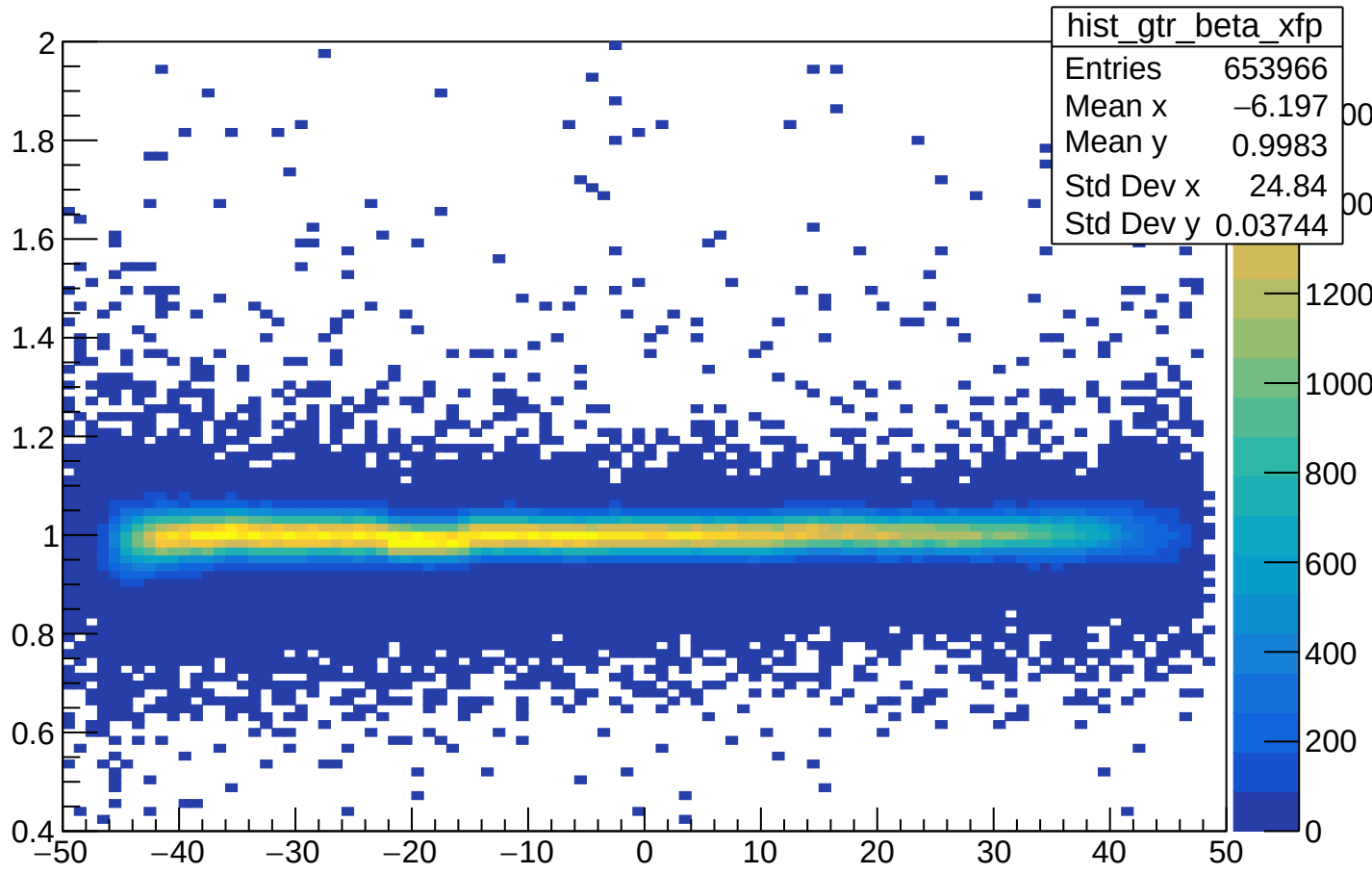

H.gtr.beta
Entries
Beta
Mean (no cuts) = 0.9998 ± 0.0000
Sigma (no cuts) = 0.0285 ± 0.0000
Mean (PID) = 1.0005 ± 0.0000
Sigma (PID) = 0.0278 ± 0.0000
Mean (PID & delta) = 1.0001 ± 0.0000
Sigma (PID & delta) = 0.0260 ± 0.0000
H.gtr.beta without cuts
Fit: H.gtr.beta without cuts
H.gtr.beta with PID cuts
Fit: H.gtr.beta with PID cuts
H.gtr.beta with PID and delta cuts
Fit: H.gtr.beta with PID and delta cuts

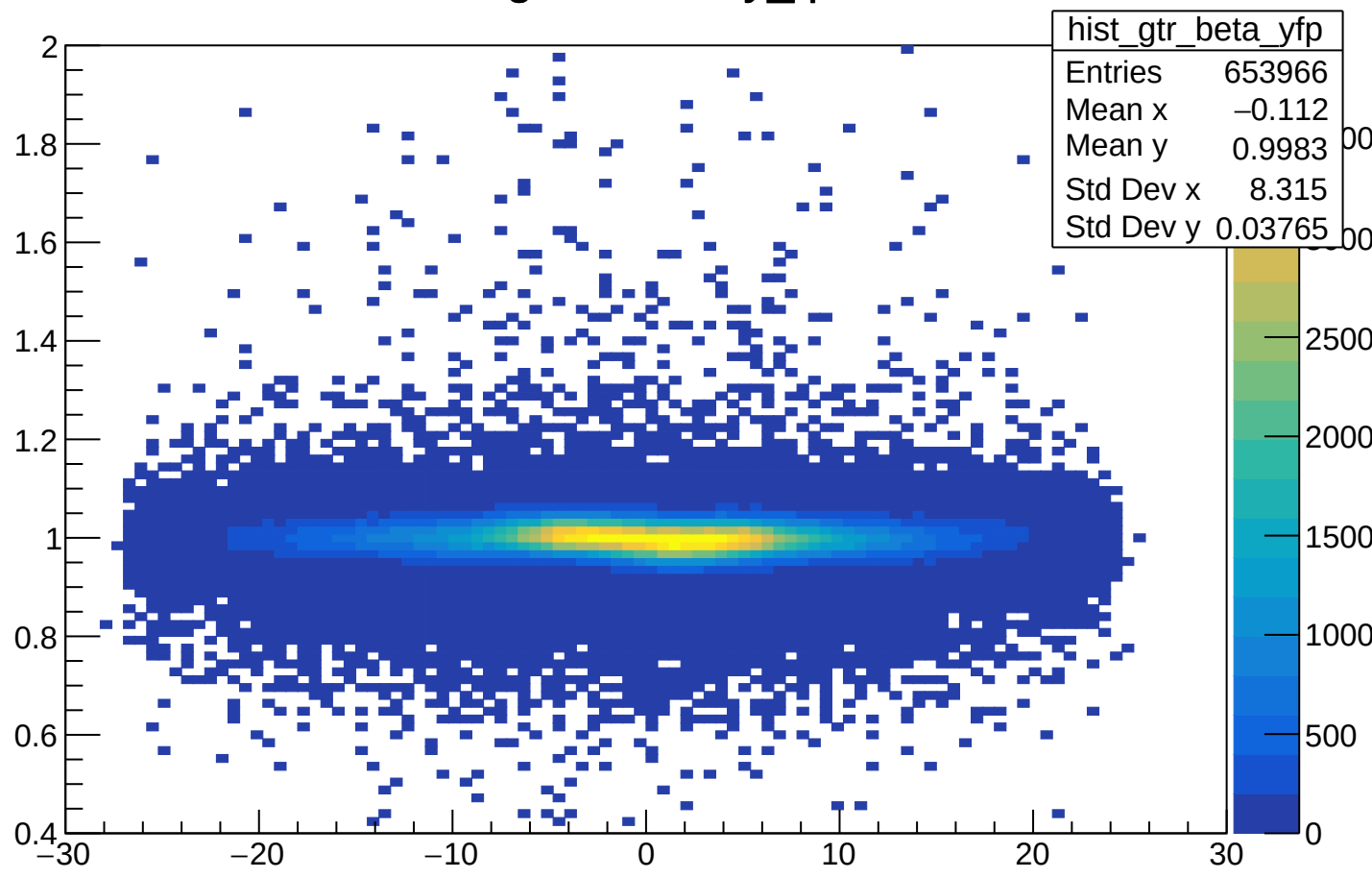

etottracknorm
hist_etottracknorm
Entries 653966
Mean 0.6757
Std Dev 0.3812
x = 0.7
10^5
10^4
10^3
10^2
10
1
0
1
2
3
4
5
6
7
8

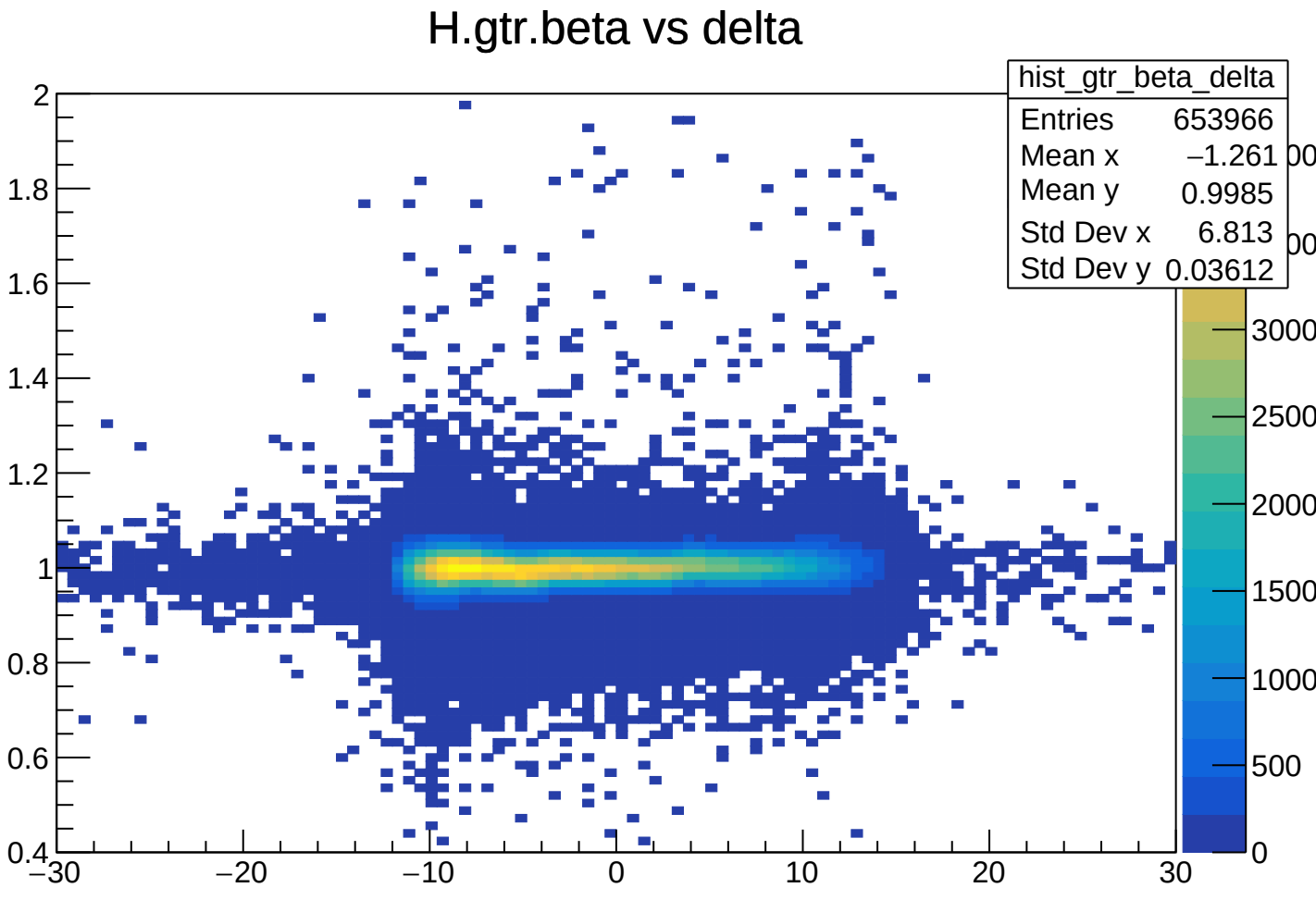

npeSum
hist_npeSum
Entries 653966
Mean 8.358
Std Dev 5.991
x = 0.7
10^5
10^4
10^3
10^2
10
1
0
10
20
30
40
50
60
70

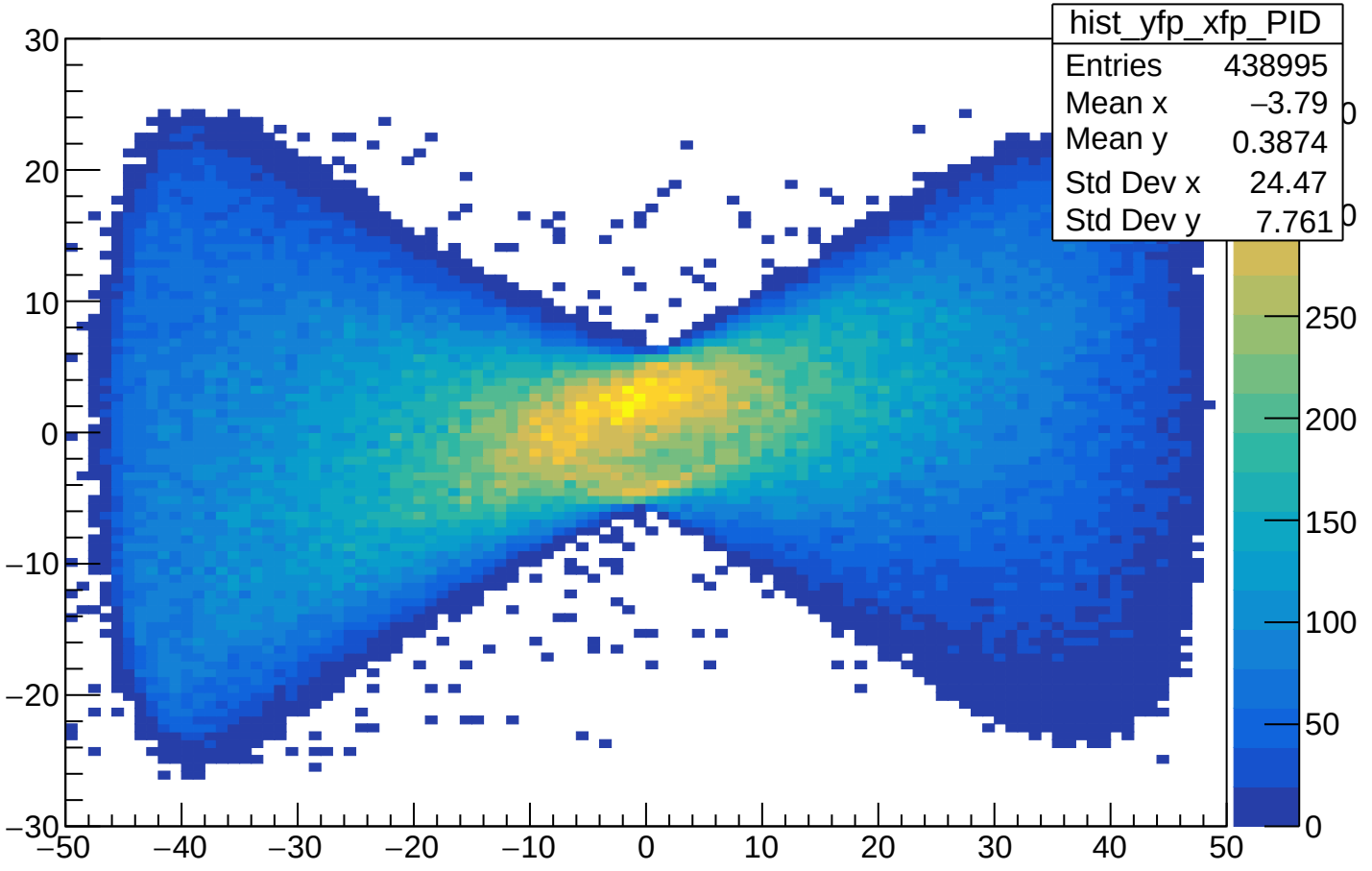

delta
hist_delta
Entries 653966
Mean −1.275
Std Dev 6.822
x = -8
x = 8
10^4
10^3
10^2
10
1
−30
−20
−10
0
10
20
30

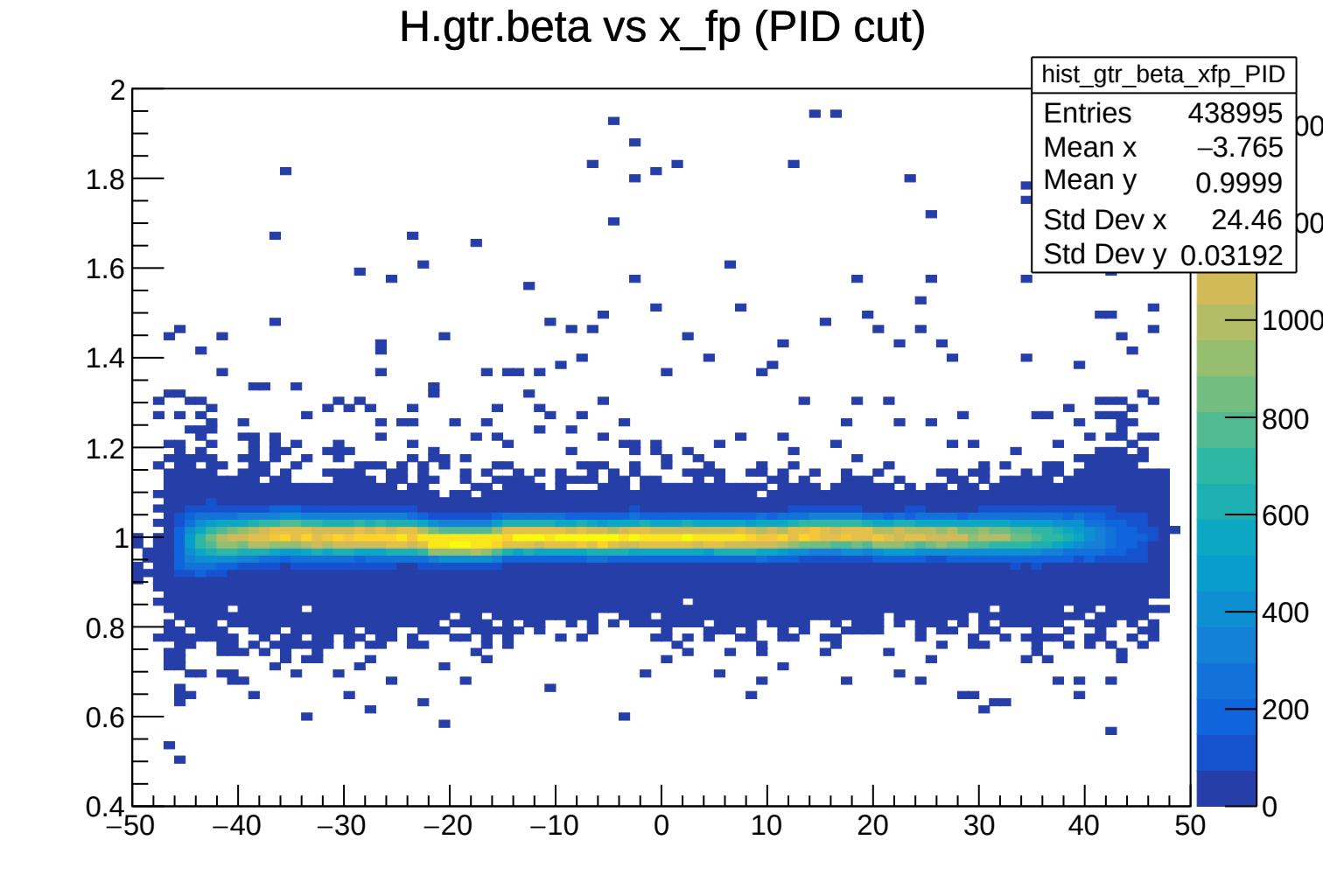

focal plane
hist_yfp_xfp
Entries 653966
Mean x −6.349
Mean y −0.1223
Std Dev x 24.89
Std Dev y 8.366
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
300
250
200
150
100
50
0

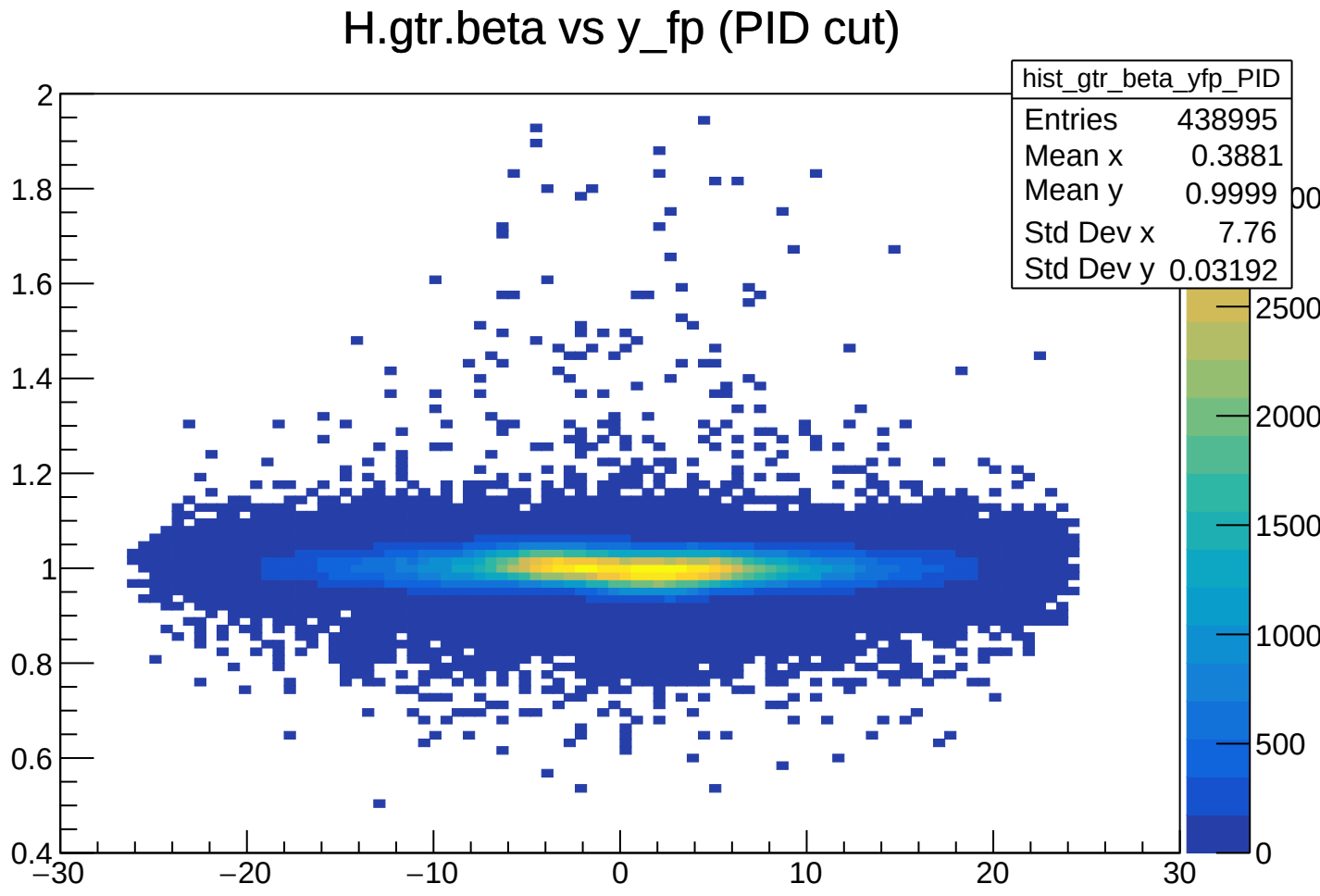

H.gtr.beta vs x_fp
hist_gtr_beta_xfp
Entries 653966
Mean x −6.197
Mean y 0.9983
Std Dev x 24.84
Std Dev y 0.03744
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−50
−40
−30
−20
−10
0
10
20
30
40
50
1200
1000
800
600
400
200
0

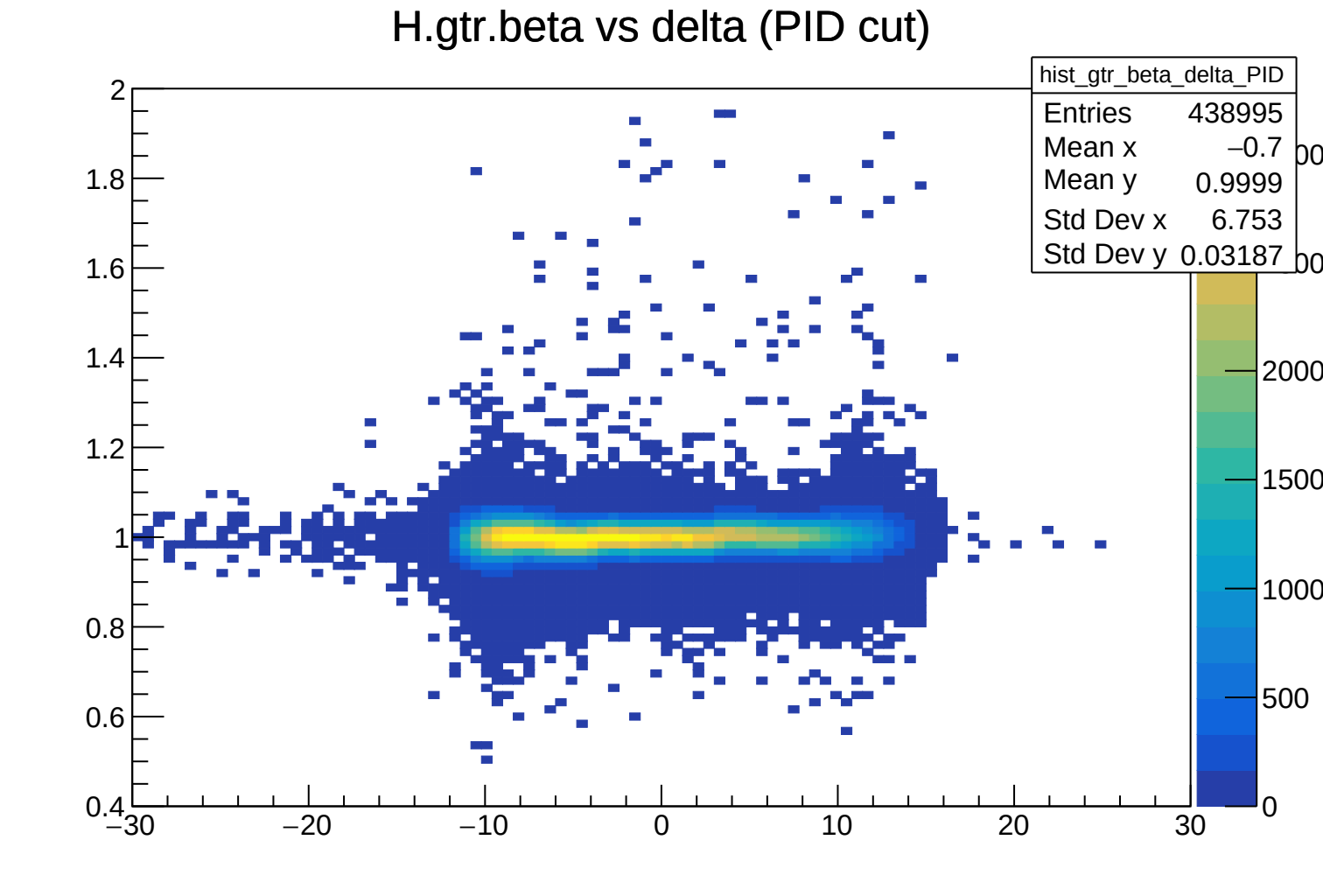

H.gtr.beta vs y_fp
hist_gtr_beta_yfp
Entries 653966
Mean x −0.112
Mean y 0.9983
Std Dev x 8.315
Std Dev y 0.03765
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
2500
2000
1500
1000
500
0

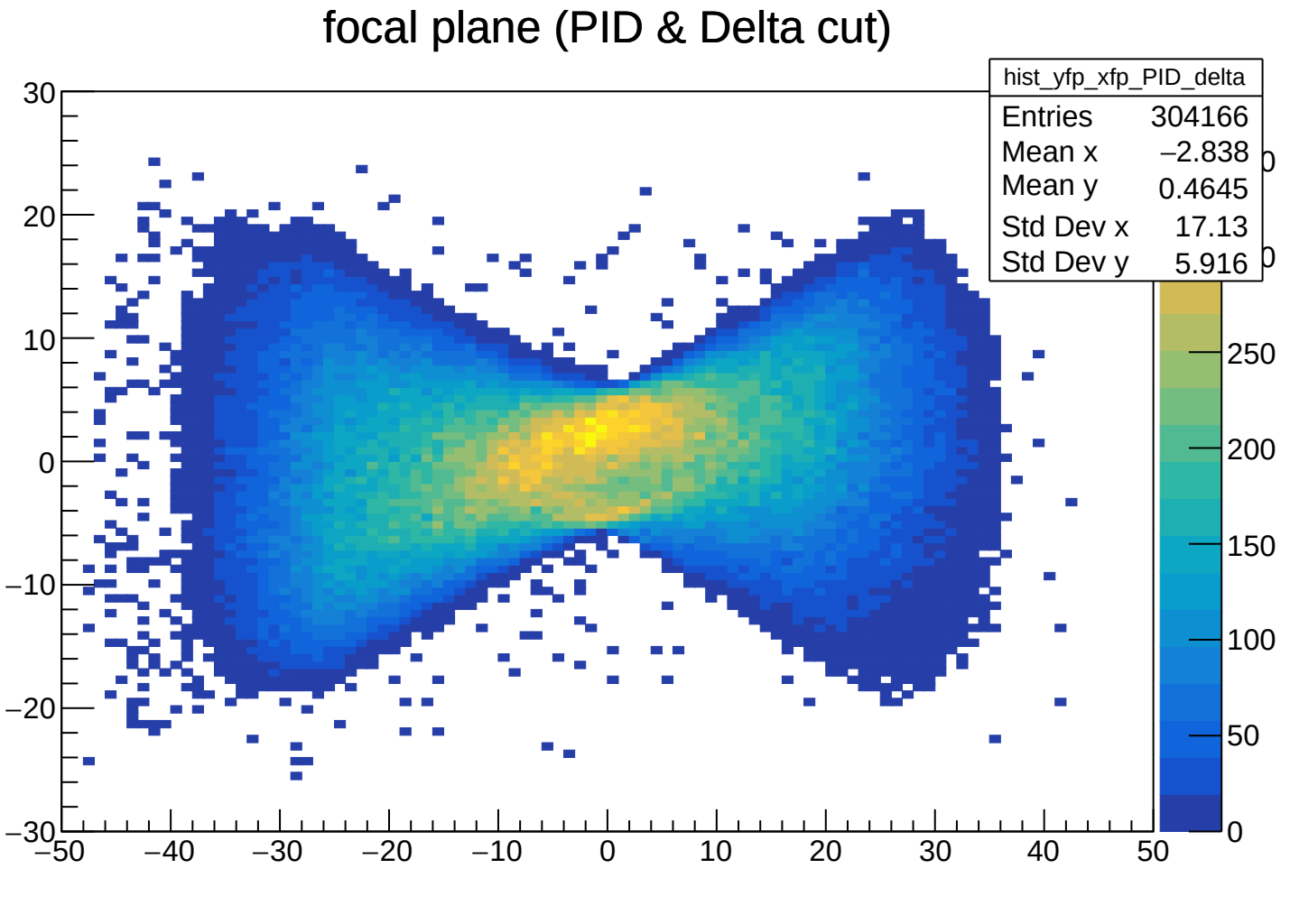

H.gtr.beta vs delta
hist_gtr_beta_delta
Entries 653966
Mean x −1.261
Mean y 0.9985
Std Dev x 6.813
Std Dev y 0.03612
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
3000
2500
2000
1500
1000
500
0

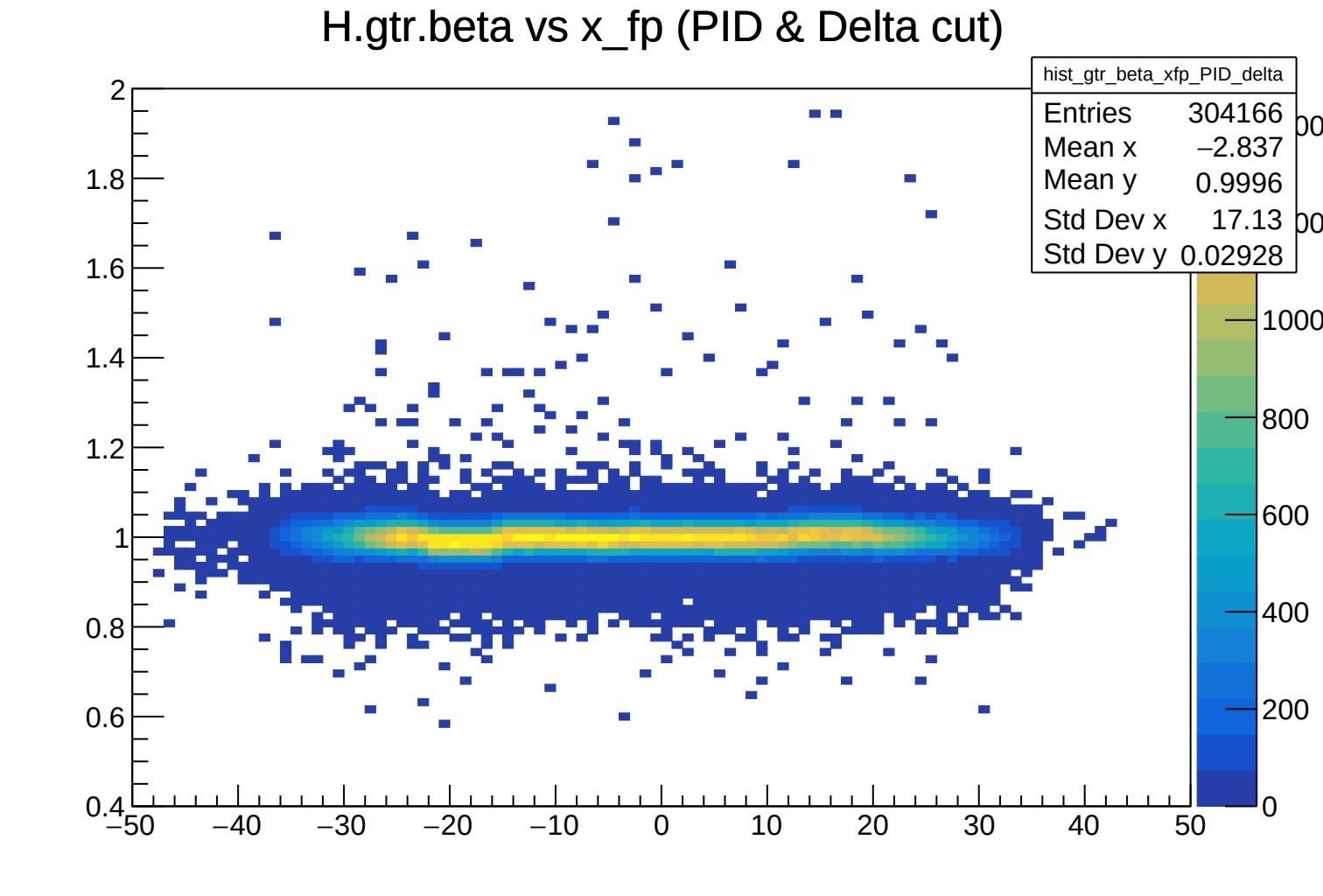

focal plane (PID cut)
hist_yfp_xfp_PID
Entries 438995
Mean x −3.79
Mean y 0.3874
Std Dev x 24.47
Std Dev y 7.761
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
250
200
150
100
50
0

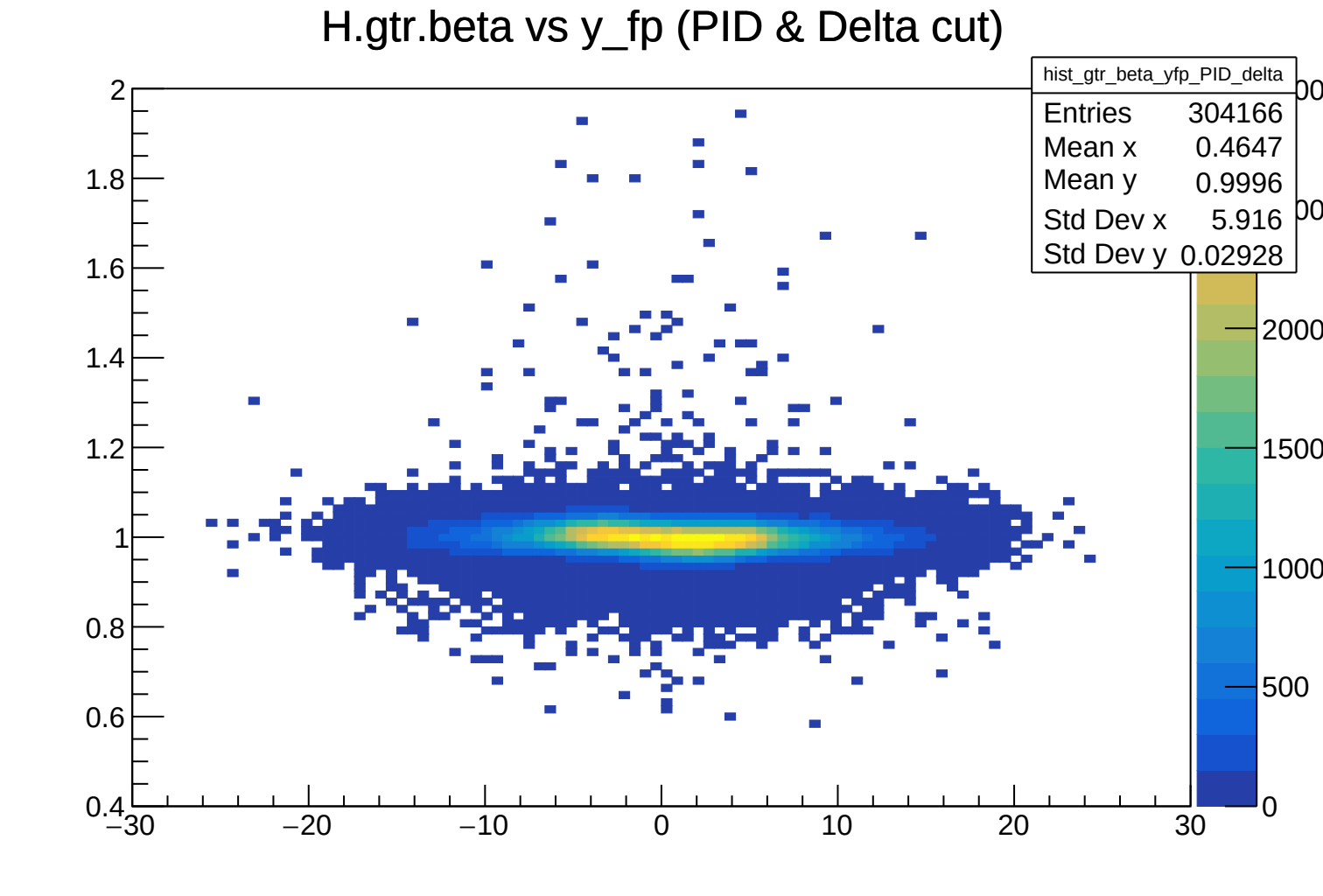

H.gtr.beta vs x_fp (PID cut)
hist_gtr_beta_xfp_PID
Entries 438995
Mean x −3.765
Mean y 0.9999
Std Dev x 24.46
Std Dev y 0.03192
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−50
−40
−30
−20
−10
0
10
20
30
40
50
1000
800
600
400
200
0

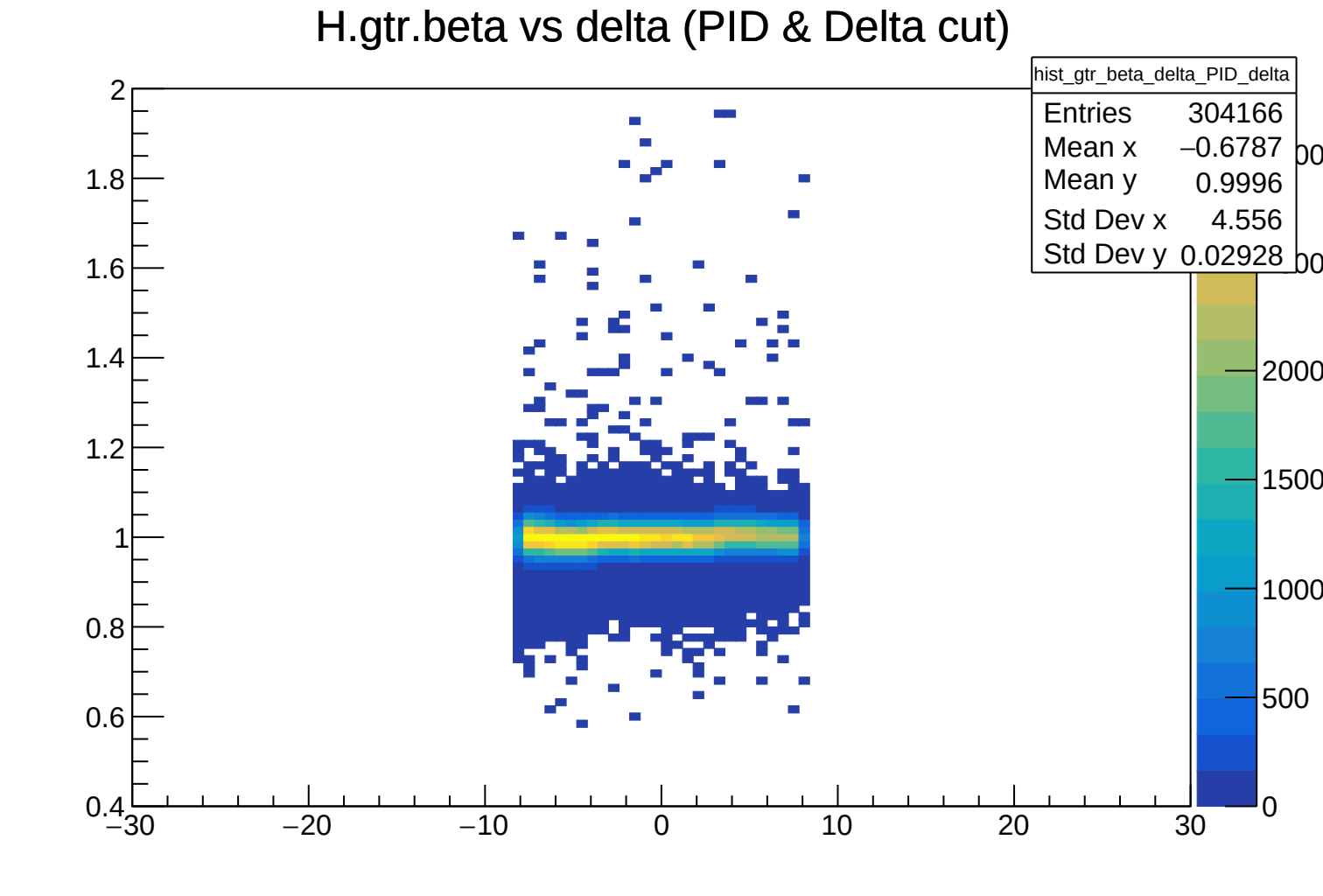

H.gtr.beta vs y_fp (PID cut)
hist_gtr_beta_yfp_PID
Entries 438995
Mean x 0.3881
Mean y 0.9999
Std Dev x 7.76
Std Dev y 0.03192
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
2500
2000
1500
1000
500
0


H.gtr.beta vs delta (PID cut)
hist_gtr_beta_delta_PID
Entries 438995
Mean x −0.7
Mean y 0.9999
Std Dev x 6.753
Std Dev y 0.03187
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 & Delta cut)
hist_yfp_xfp_PID_delta
Entries 304166
Mean x −2.838
Mean y 0.4645
Std Dev x 17.13
Std Dev y 5.916
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
250
200
150
100
50
0


H.gtr.beta vs x_fp (PID & Delta cut)
hist_gtr_beta_xfp_PID_delta
Entries 304166
Mean x −2.837
Mean y 0.9996
Std Dev x 17.13
Std Dev y 0.02928
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 (PID & Delta cut)
hist_gtr_beta_yfp_PID_delta
Entries 304166
Mean x 0.4647
Mean y 0.9996
Std Dev x 5.916
Std Dev y 0.02928
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 (PID & Delta cut)
hist_gtr_beta_delta_PID_delta
Entries 304166
Mean x −0.6787
Mean y 0.9996
Std Dev x 4.556
Std Dev y 0.02928
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