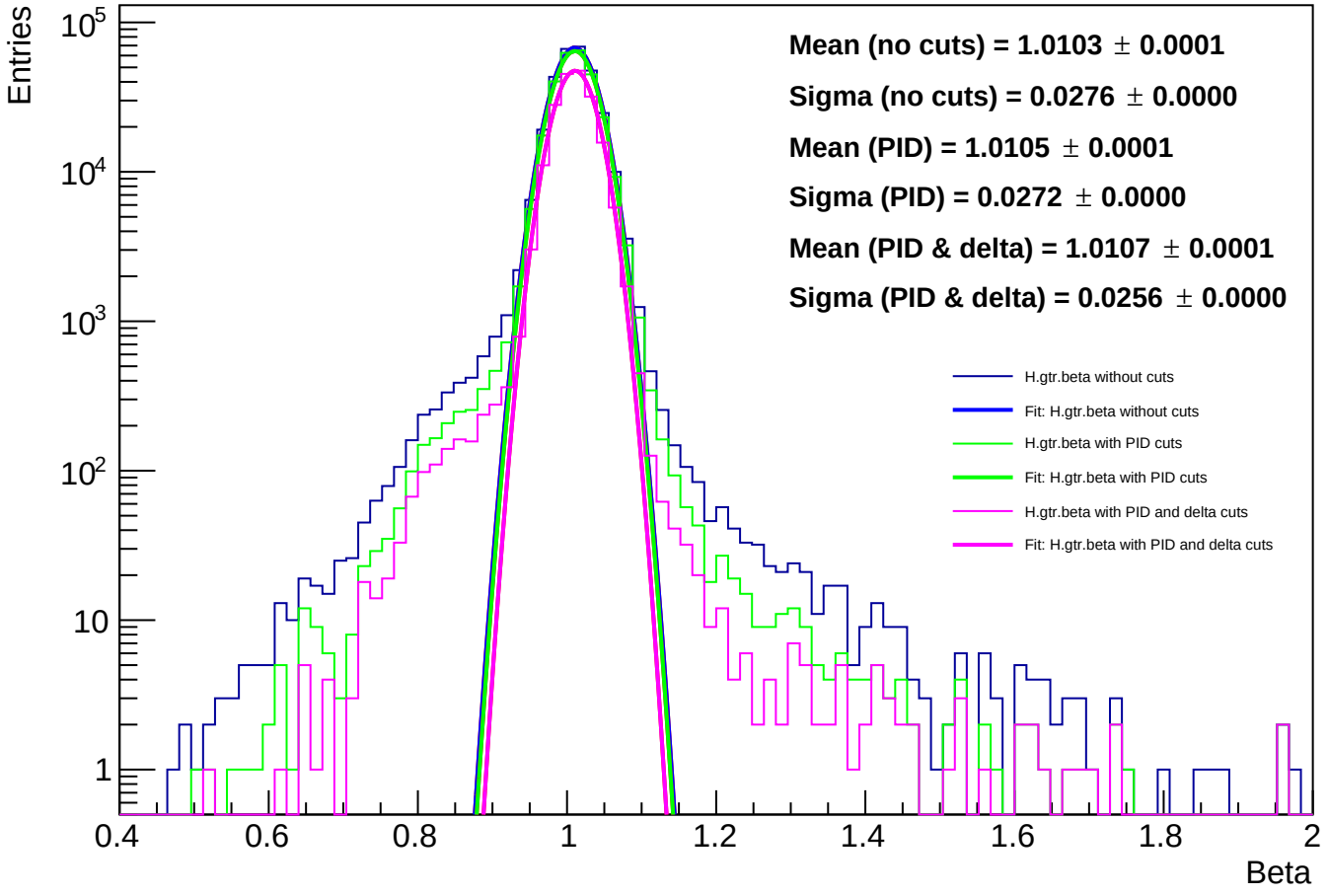
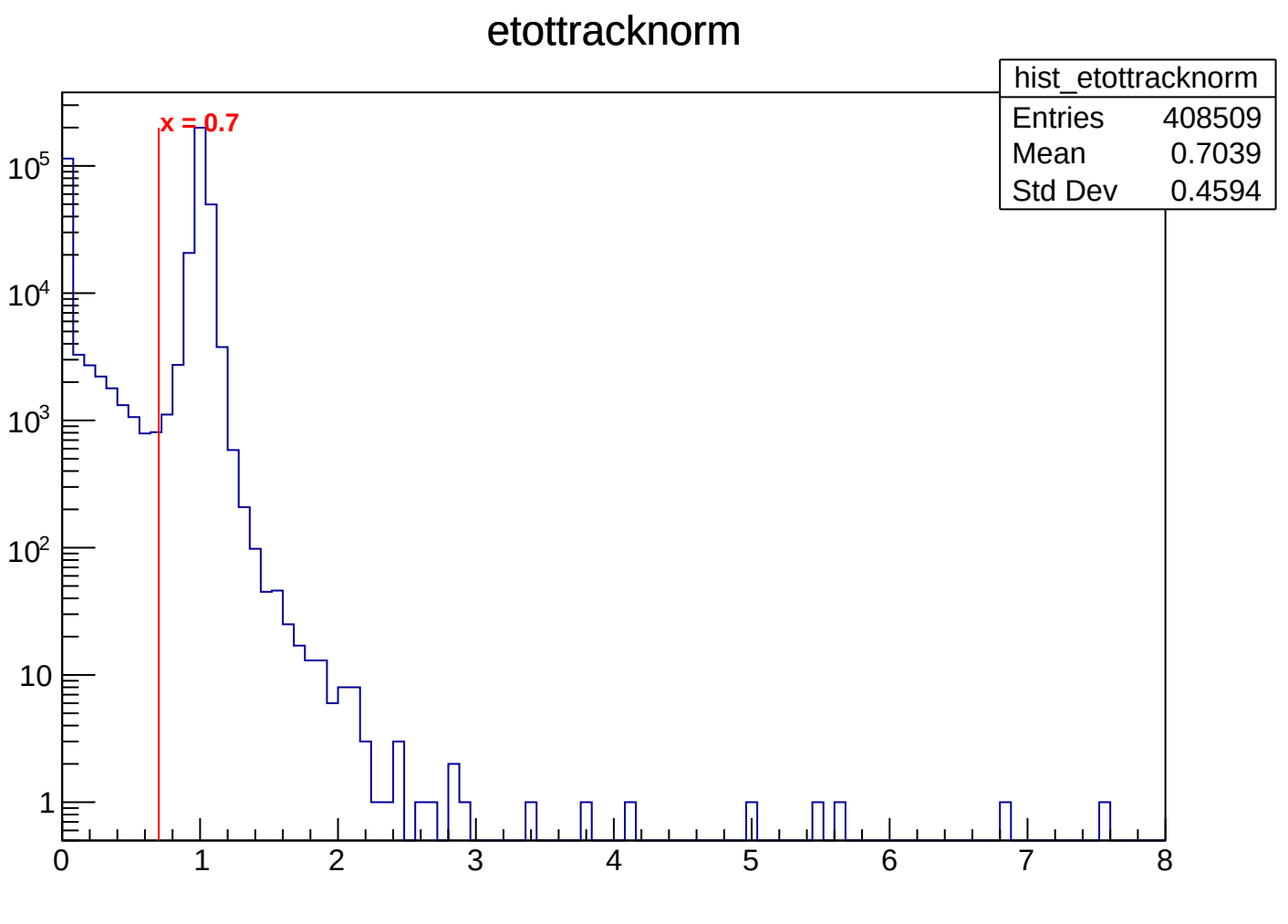
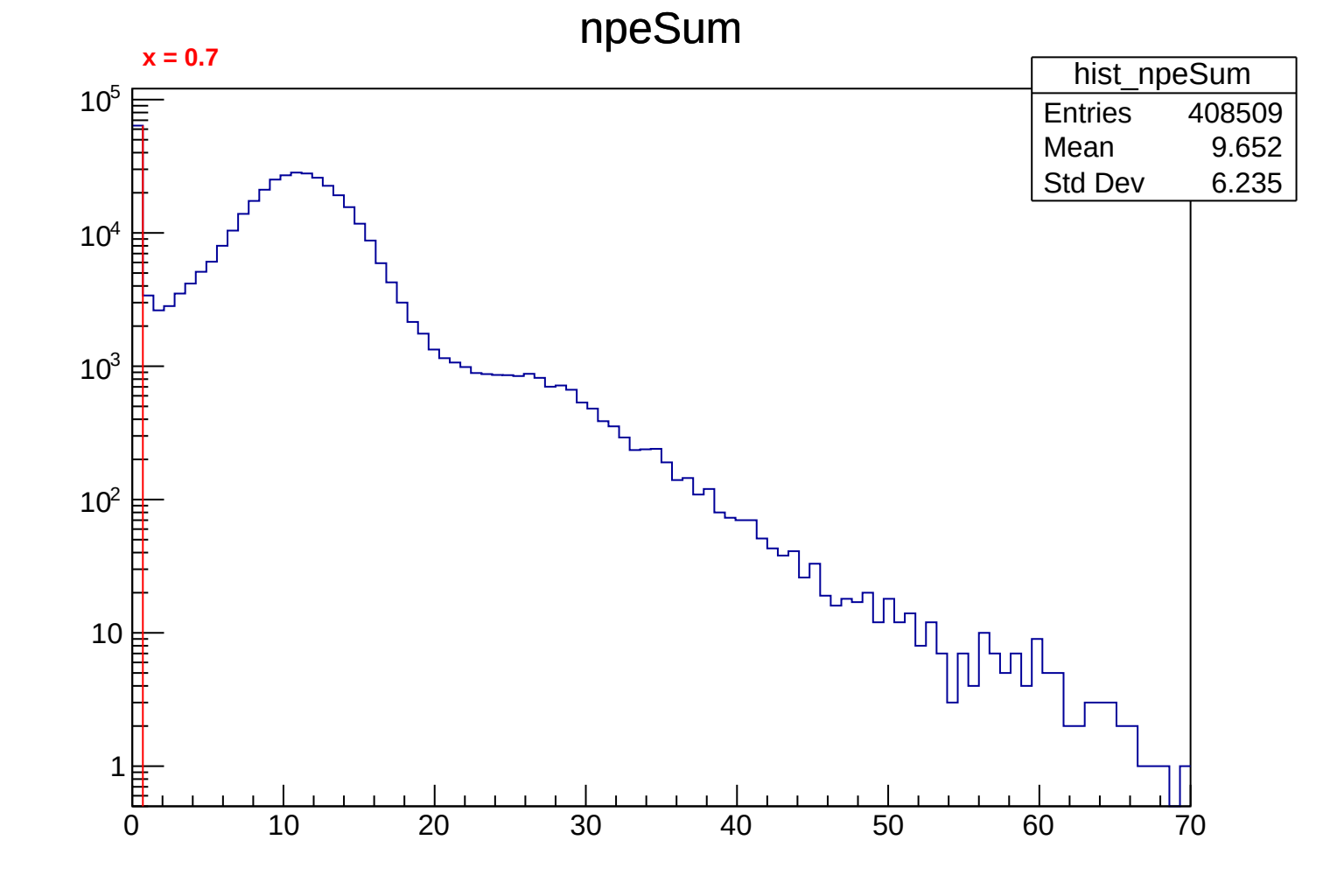
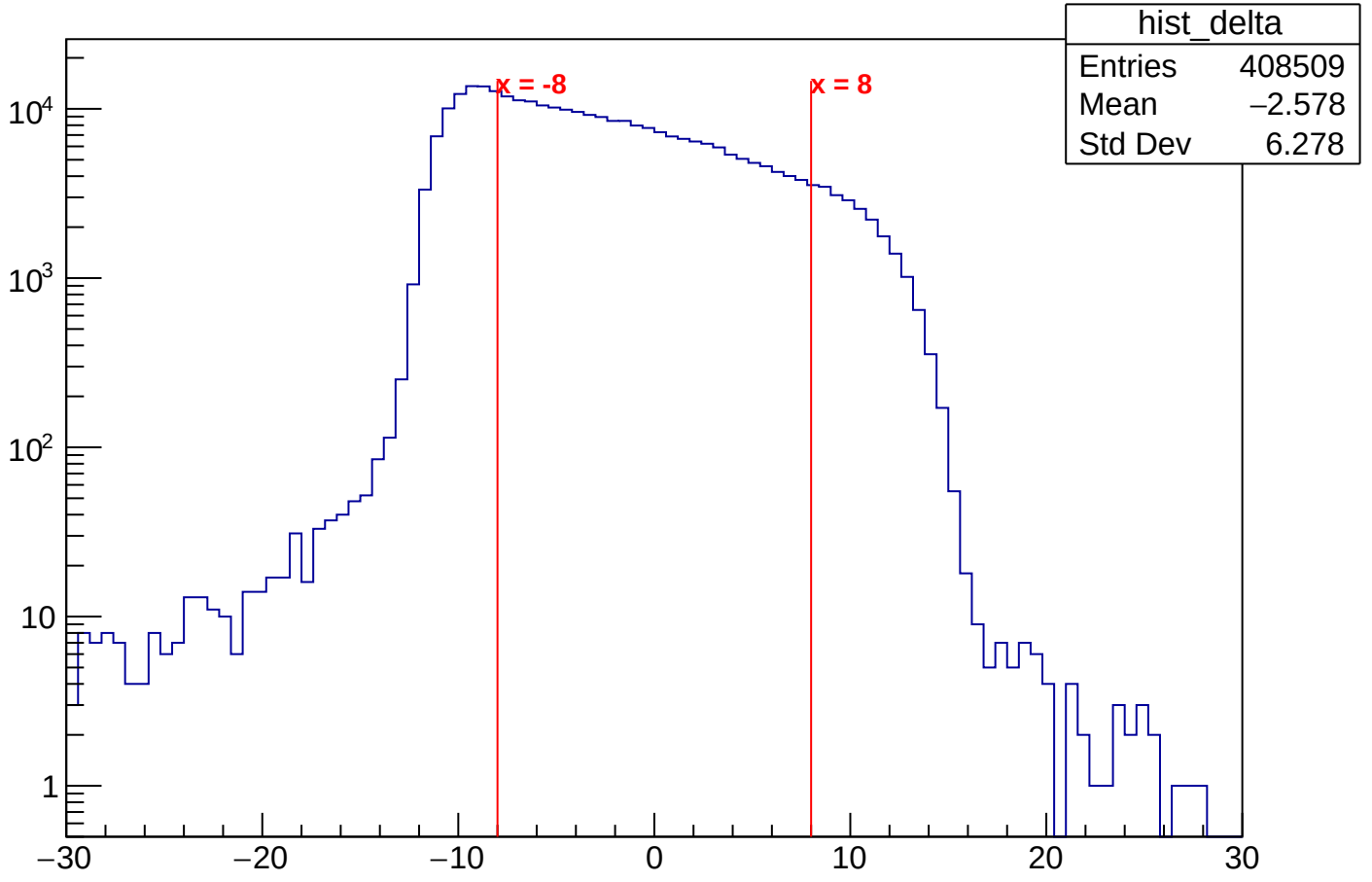
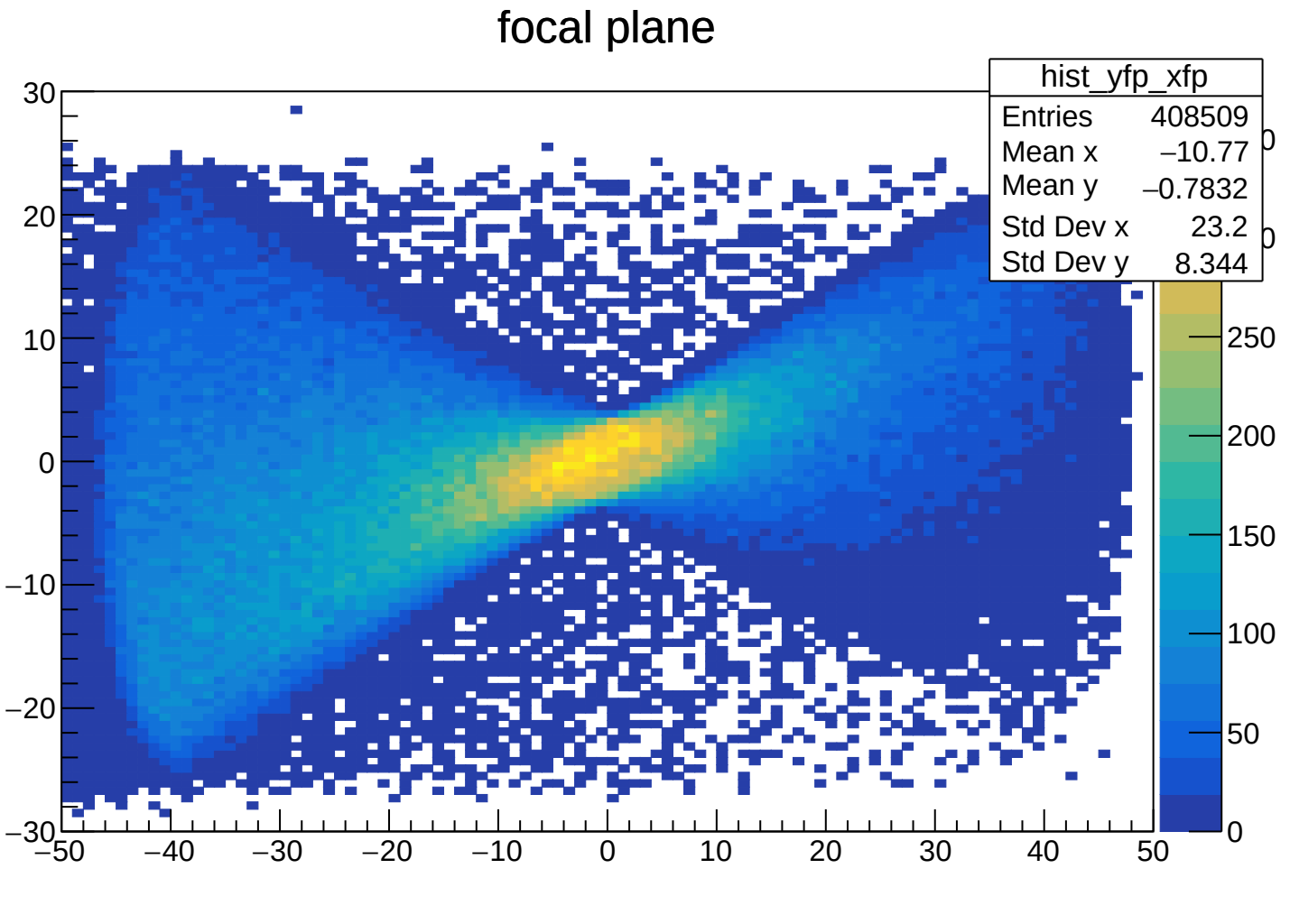
H.gtr.beta

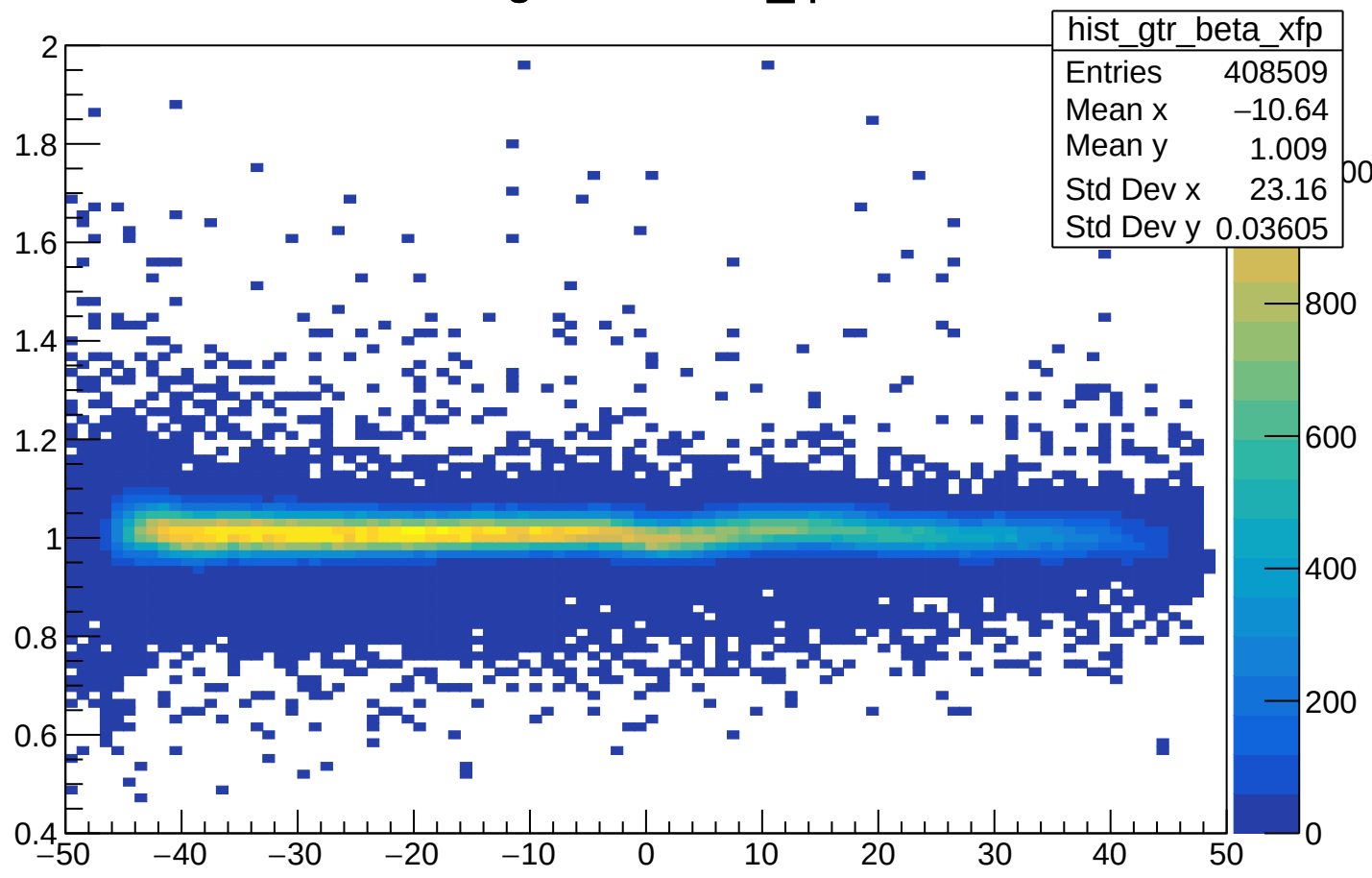

Entries
10^5
10^4
10^3
10^2
10
1
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2
Beta
Mean (no cuts) = 1.0103 ± 0.0001
Sigma (no cuts) = 0.0276 ± 0.0000
Mean (PID) = 1.0105 ± 0.0001
Sigma (PID) = 0.0272 ± 0.0000
Mean (PID & delta) = 1.0107 ± 0.0001
Sigma (PID & delta) = 0.0256 ± 0.0000
H.gtr.beta without cuts
Fit: H.gtr.beta 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

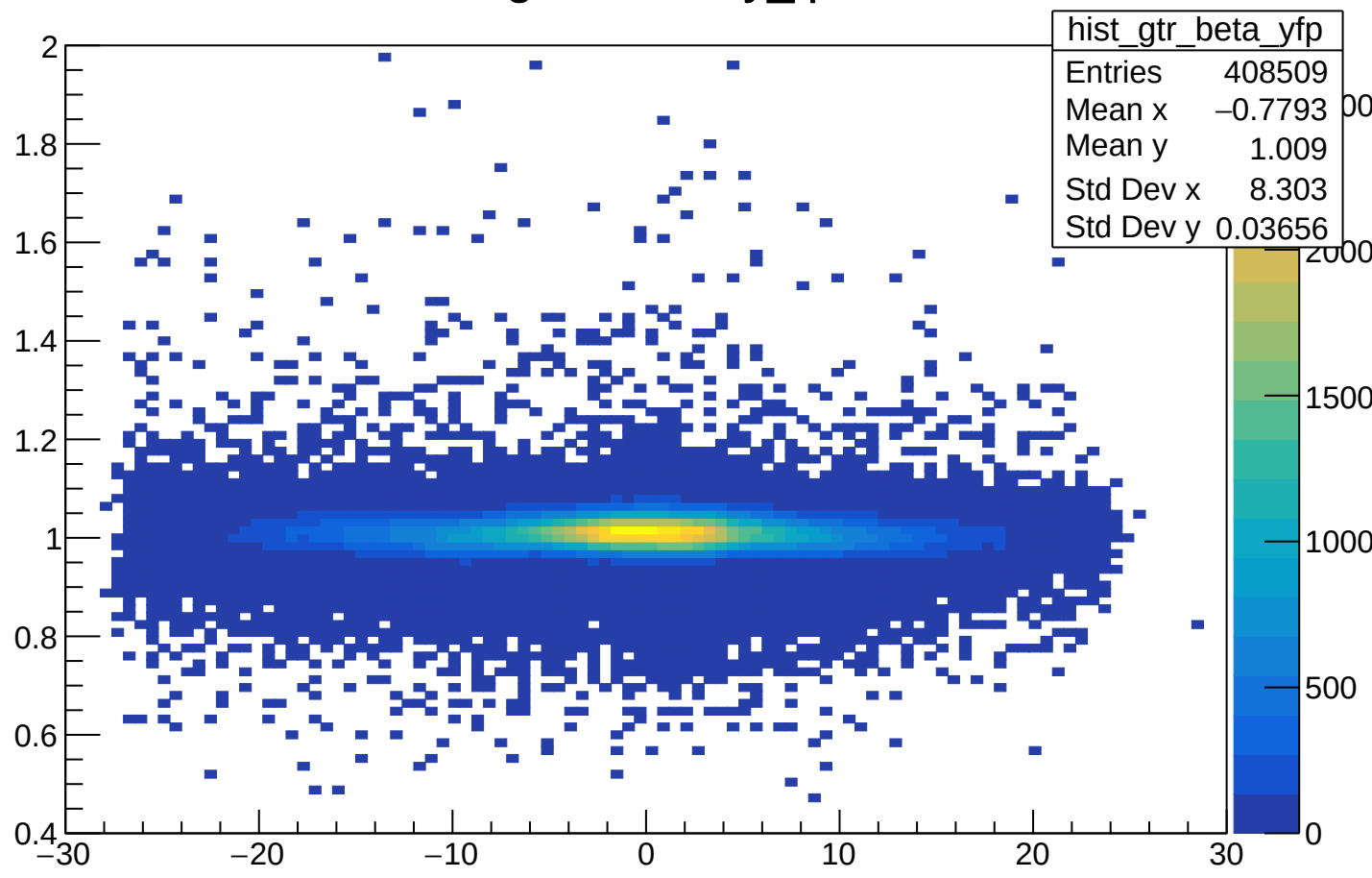

etottracknorm
hist_etottracknorm
Entries 408509
Mean 0.7039
Std Dev 0.4594
x = 0.7
10^5
10^4
10^3
10^2
10
1
0
1
2
3
4
5
6
7
8

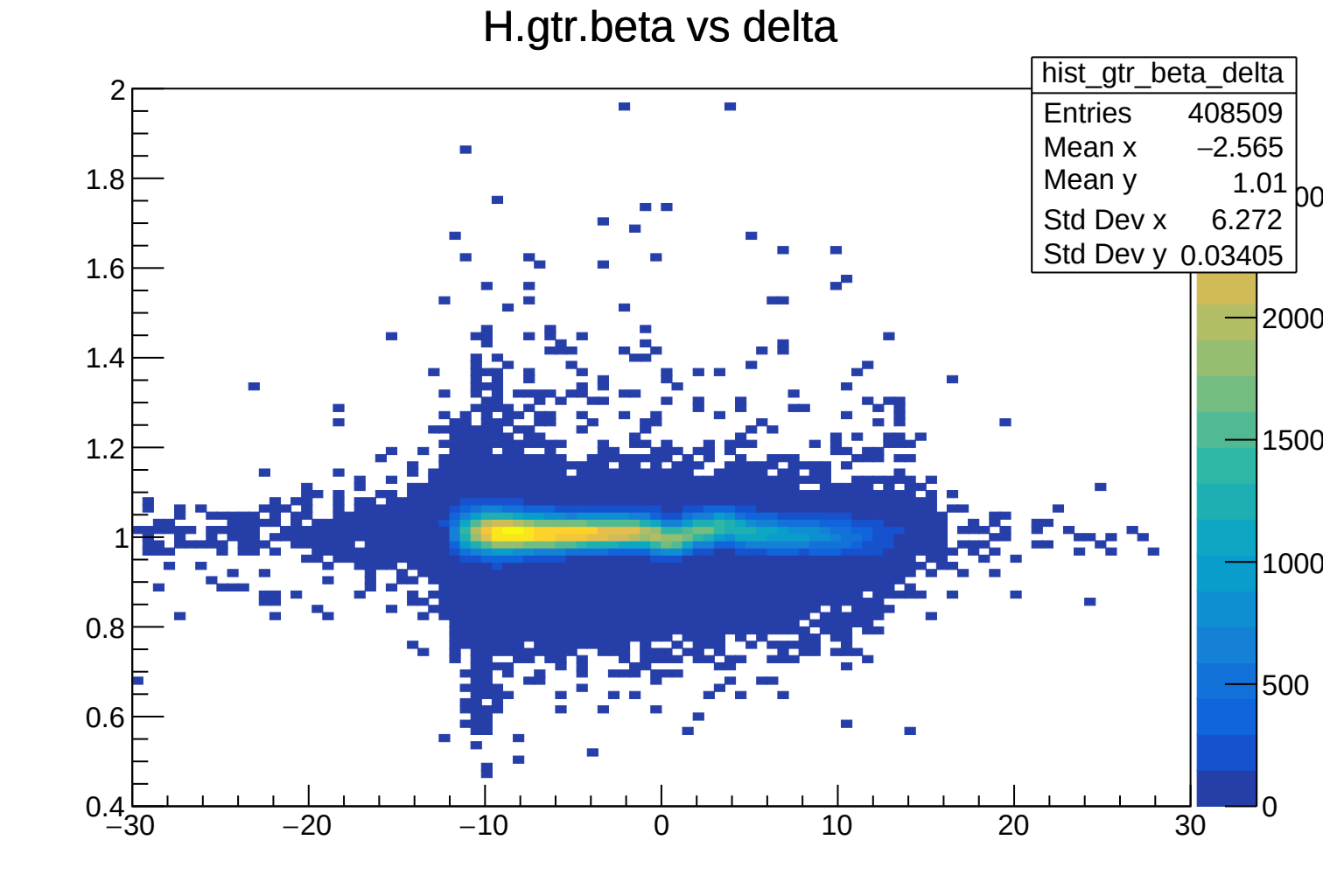

npeSum
x = 0.7
hist_npeSum
Entries 408509
Mean 9.652
Std Dev 6.235
10^5
10^4
10^3
10^2
10
1
0
10
20
30
40
50
60
70

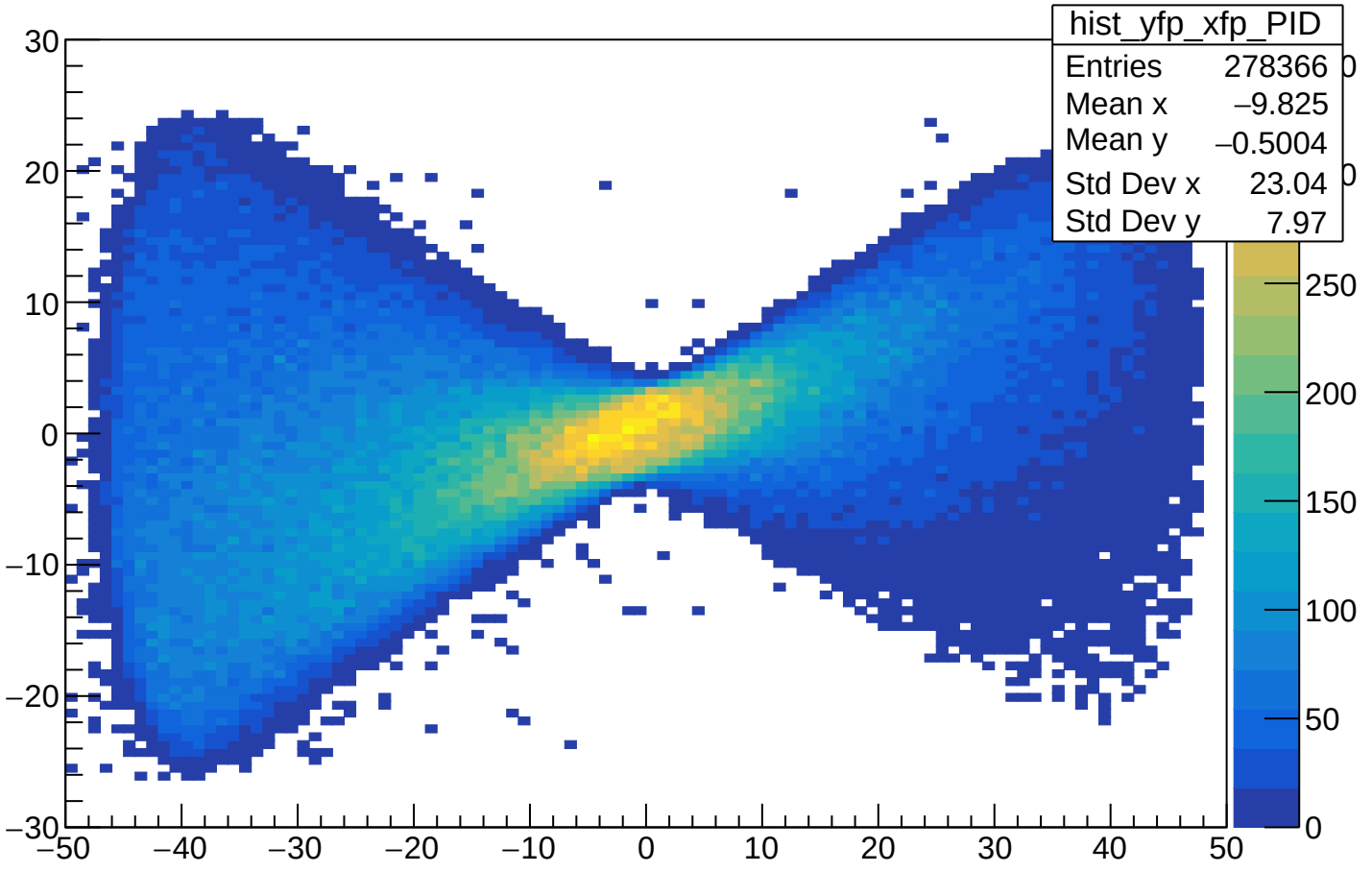

delta
hist_delta
Entries 408509
Mean −2.578
Std Dev 6.278
x = -8
x = 8
10^4
10^3
10^2
10
1
−30
−20
−10
0
10
20
30

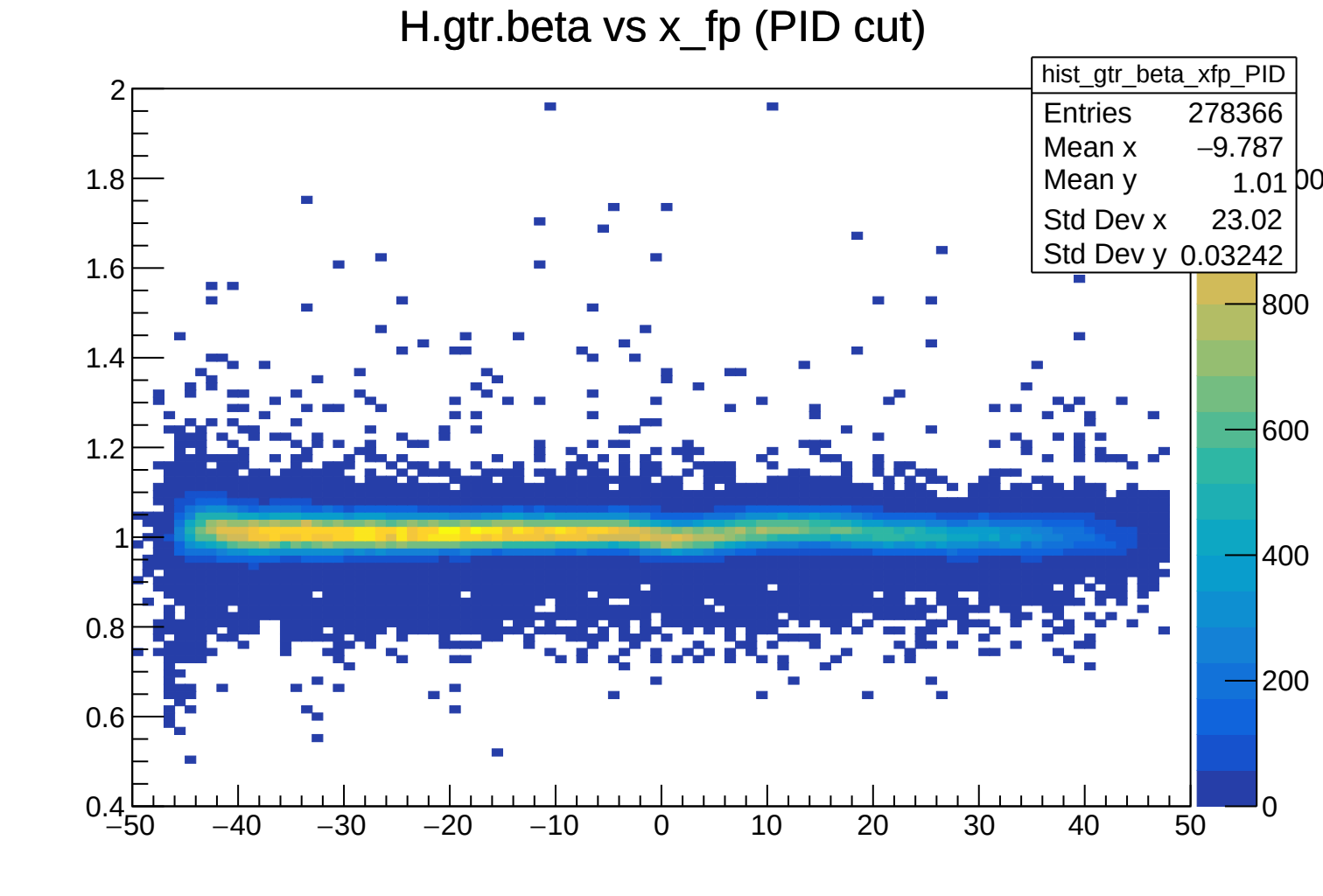

focal plane
hist_yfp_xfp
Entries 408509
Mean x −10.77
Mean y −0.7832
Std Dev x 23.2
Std Dev y 8.344
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
250
200
150
100
50
0

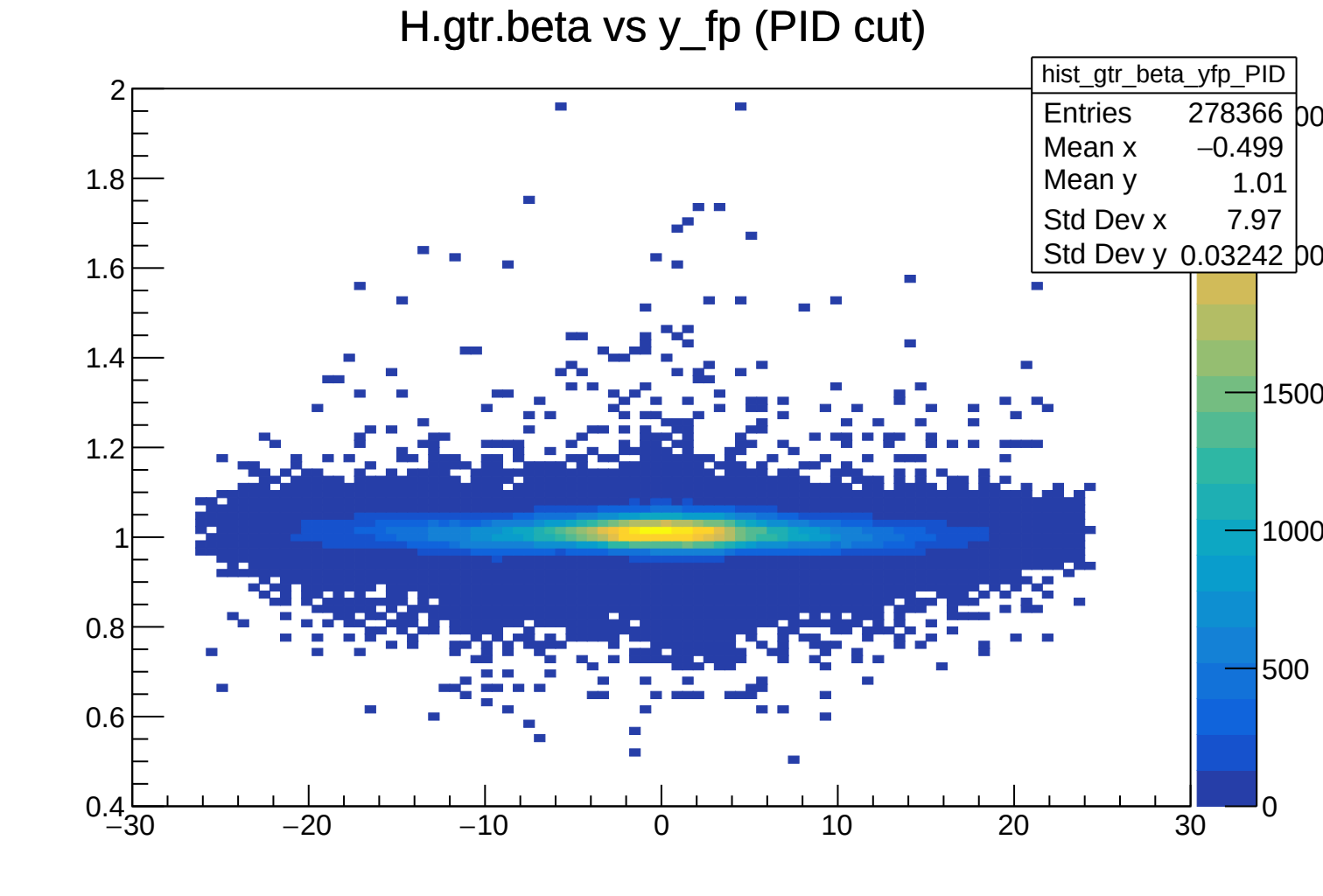

H.gtr.beta vs x_fp
hist_gtr_beta_xfp
Entries 408509
Mean x −10.64
Mean y 1.009
Std Dev x 23.16
Std Dev y 0.03605
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−50
−40
−30
−20
−10
0
10
20
30
40
50
800
600
400
200
0

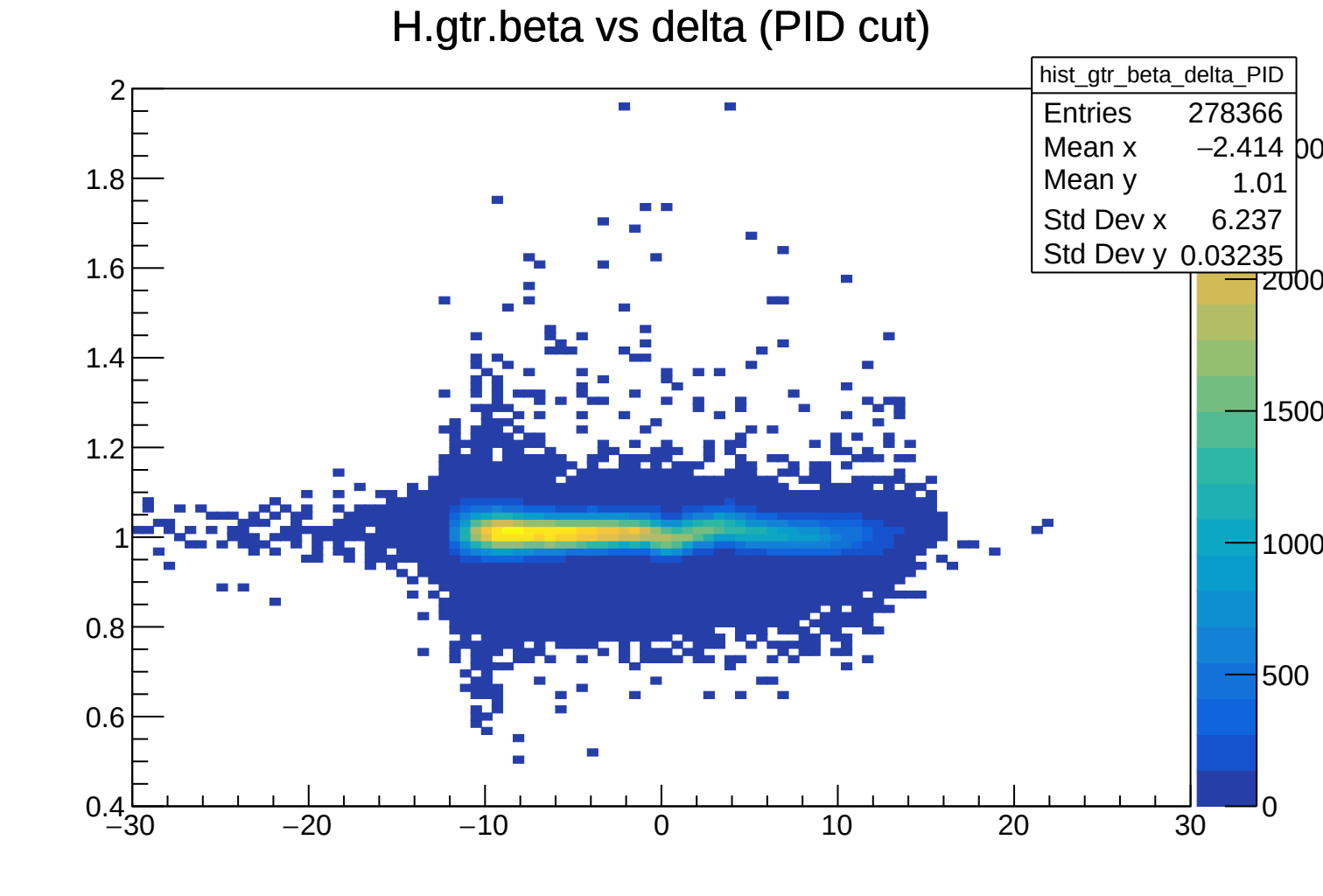

H.gtr.beta vs y_fp
hist_gtr_beta_yfp
Entries 408509
Mean x −0.7793
Mean y 1.009
Std Dev x 8.303
Std Dev y 0.03656
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
2000
1500
1000
500
0

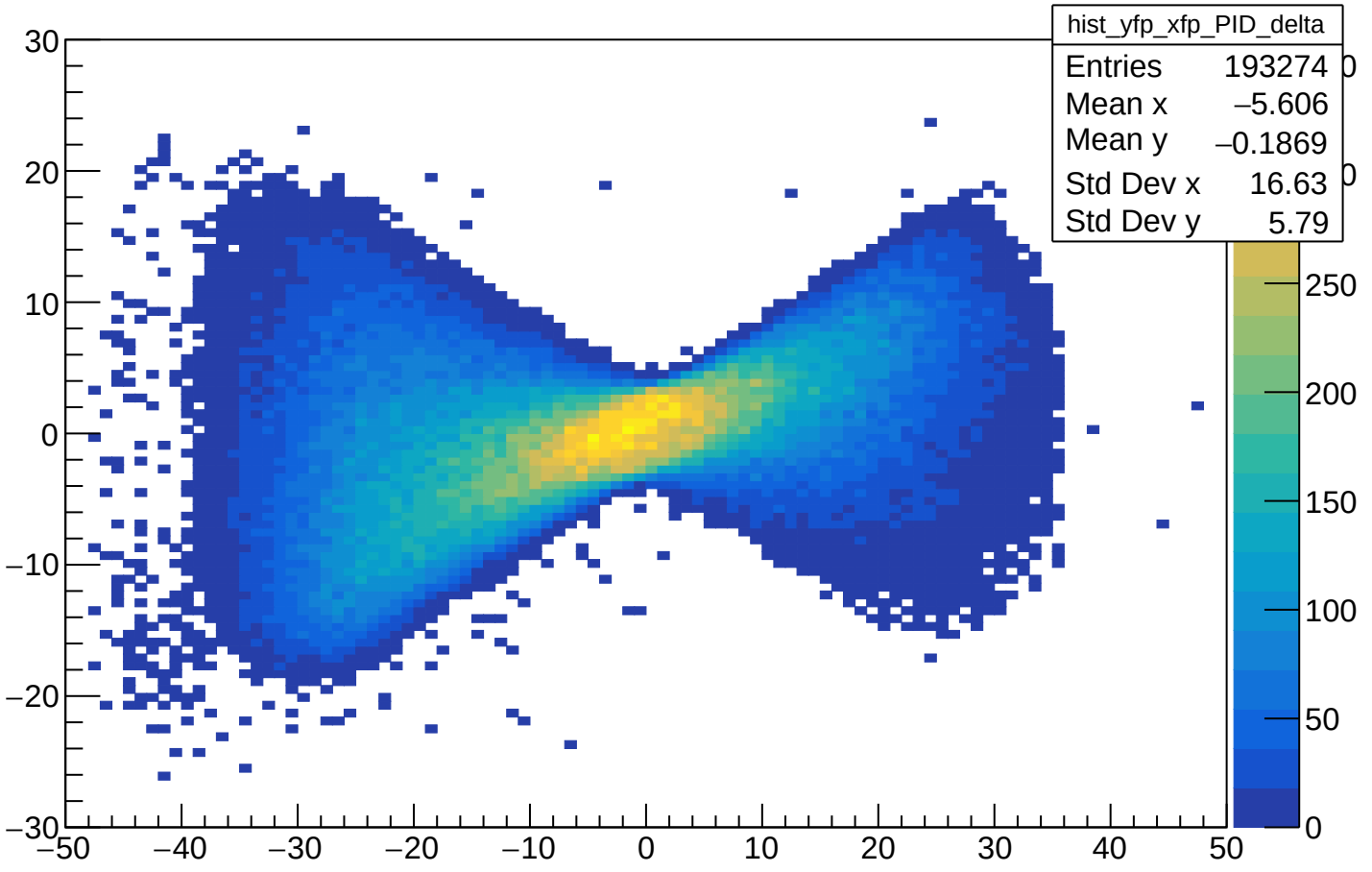

H.gtr.beta vs delta
hist_gtr_beta_delta
Entries 408509
Mean x −2.565
Mean y 1.01
Std Dev x 6.272
Std Dev y 0.03405
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
2000
1500
1000
500
0

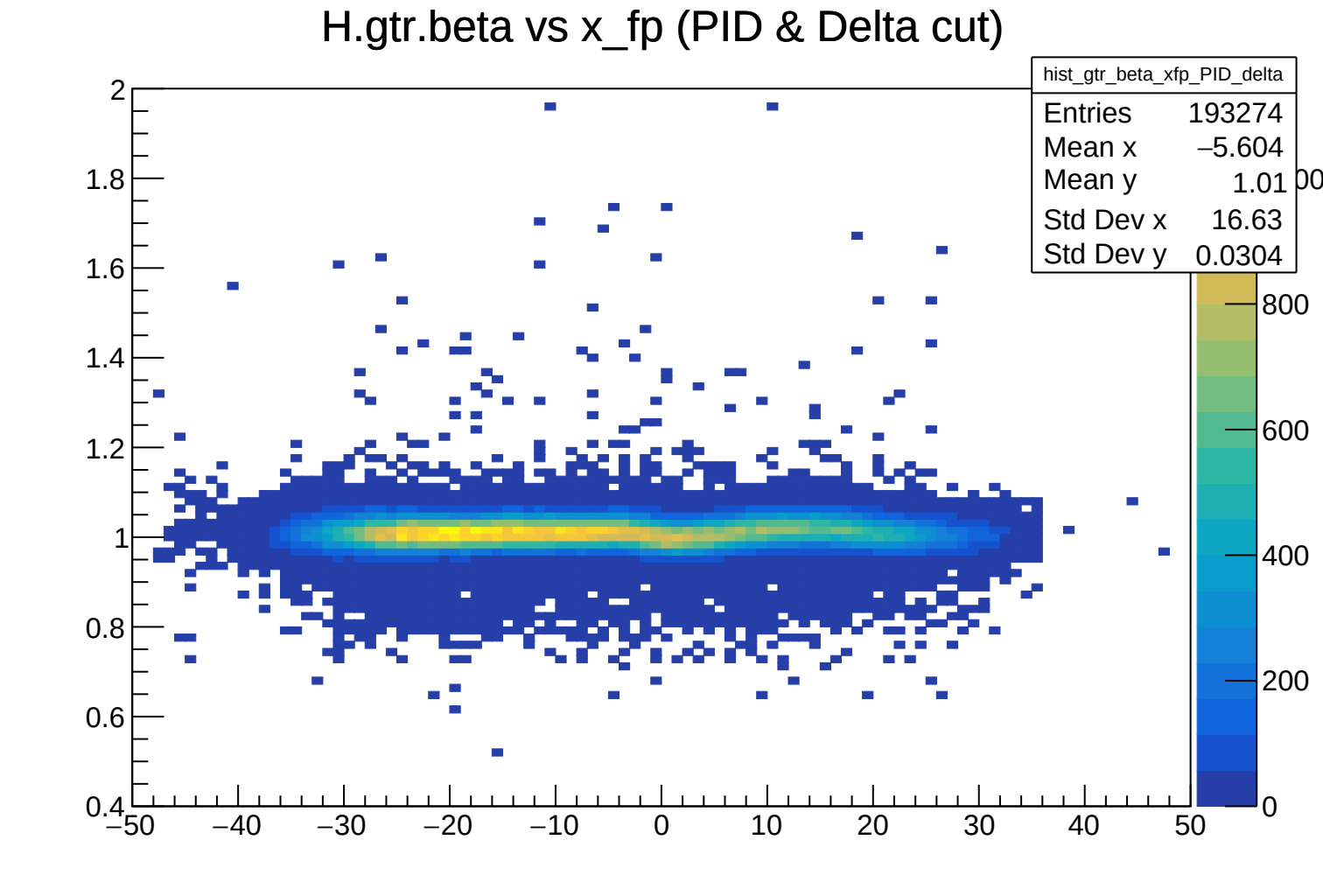

focal plane (PID cut)
hist_yfp_xfp_PID
Entries 278366
Mean x –9.825
Mean y –0.5004
Std Dev x 23.04
Std Dev y 7.97
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
250
200
150
100
50
0

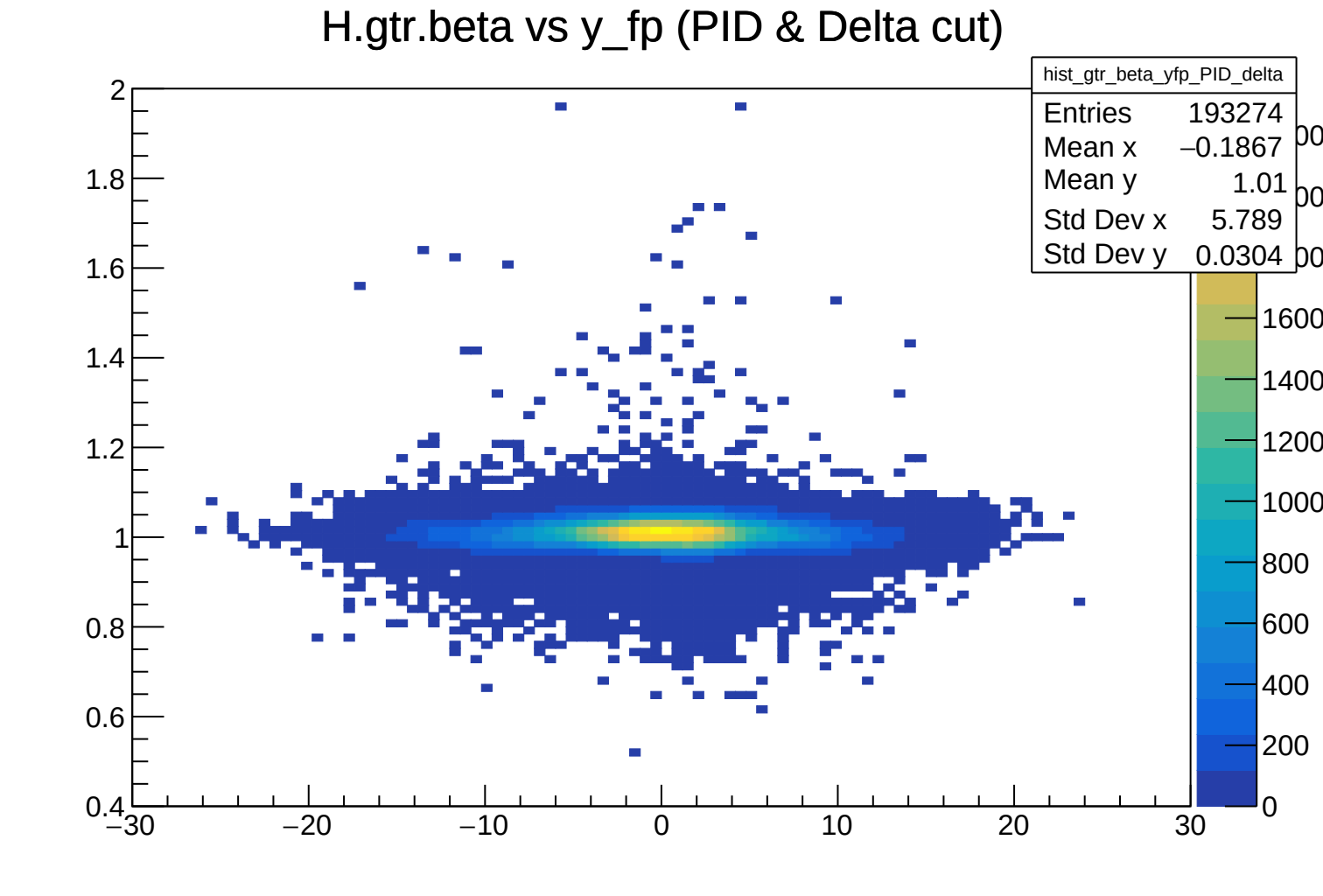

H.gtr.beta vs x_fp (PID cut)
hist_gtr_beta_xfp_PID
Entries 278366
Mean x −9.787
Mean y 1.01
Std Dev x 23.02
Std Dev y 0.03242
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−50
−40
−30
−20
−10
0
10
20
30
40
50
800
600
400
200
0

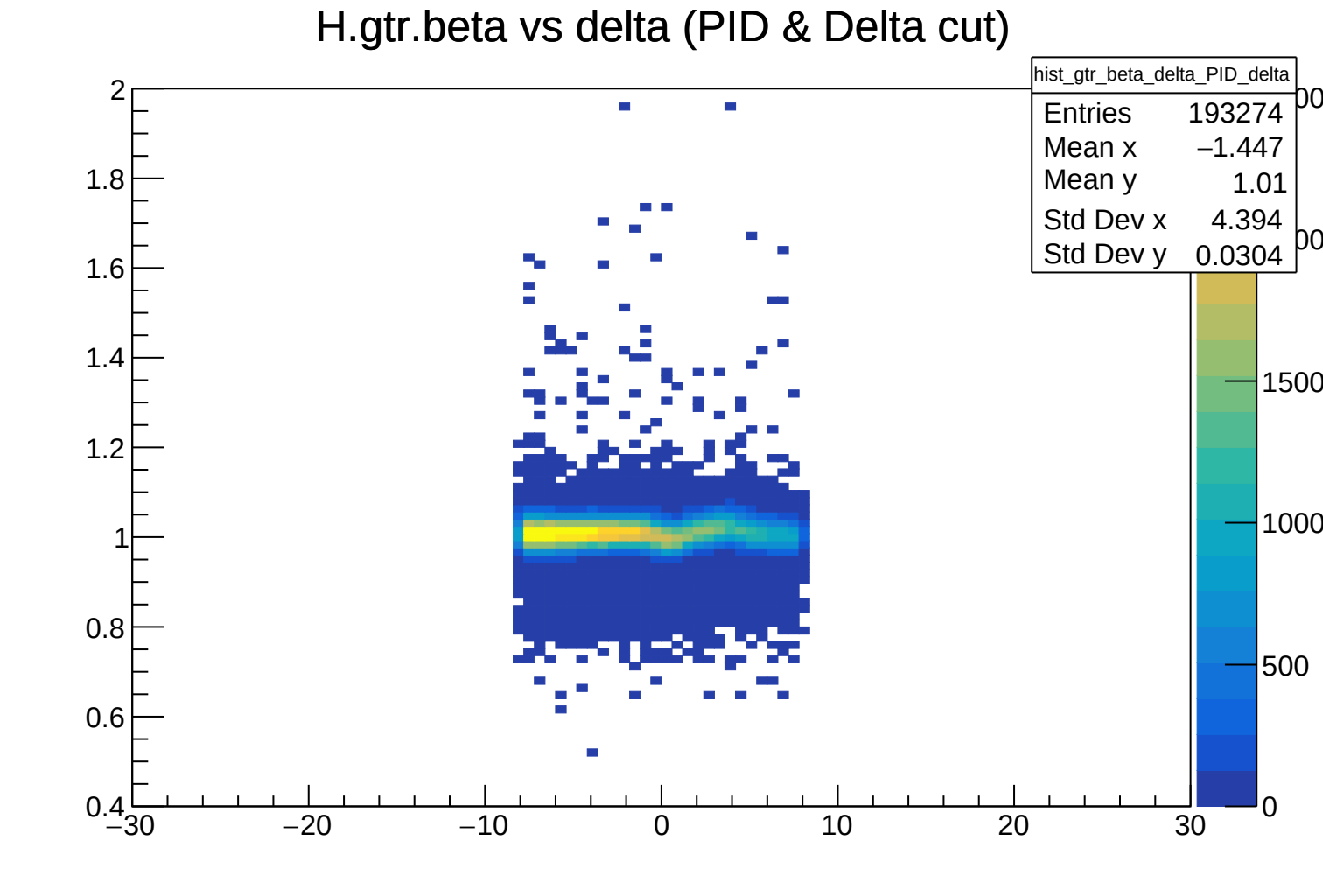

H.gtr.beta vs y_fp (PID cut)
hist_gtr_beta_yfp_PID
Entries 278366
Mean x −0.499
Mean y 1.01
Std Dev x 7.97
Std Dev y 0.03242
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
1500
1000
500
0


H.gtr.beta vs delta (PID cut)
hist_gtr_beta_delta_PID
Entries 278366
Mean x −2.414
Mean y 1.01
Std Dev x 6.237
Std Dev y 0.03235
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 193274
Mean x −5.606
Mean y −0.1869
Std Dev x 16.63
Std Dev y 5.79
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 193274
Mean x –5.604
Mean y 1.01
Std Dev x 16.63
Std Dev y 0.0304
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
800
600
400
200
0


H.gtr.beta vs y_fp (PID & Delta cut)
hist_gtr_beta_yfp_PID_delta
Entries 193274
Mean x −0.1867
Mean y 1.01
Std Dev x 5.789
Std Dev y 0.0304
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 (PID & Delta cut)
hist_gtr_beta_delta_PID_delta
Entries 193274
Mean x −1.447
Mean y 1.01
Std Dev x 4.394
Std Dev y 0.0304
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
1500
1000
500
0