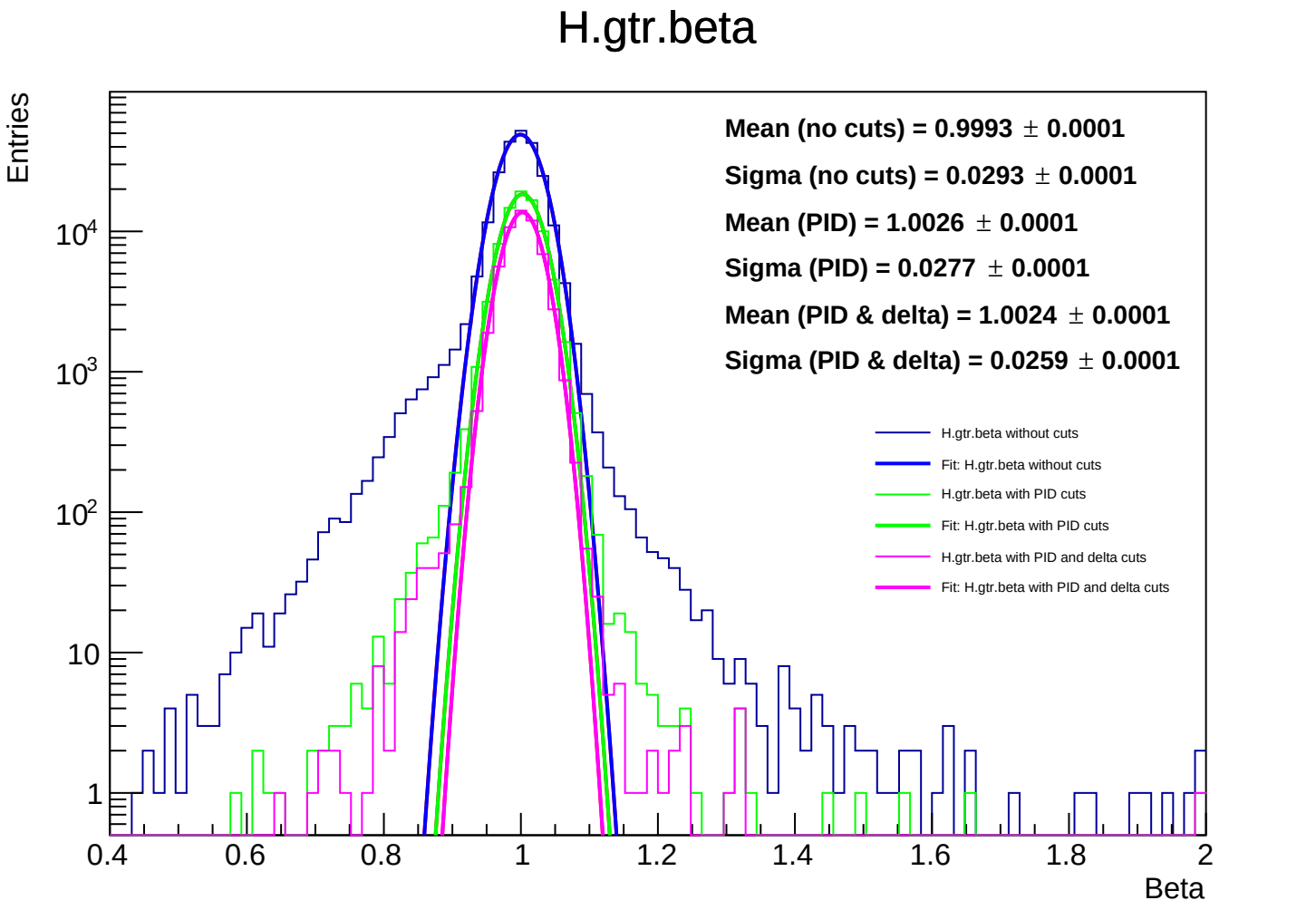
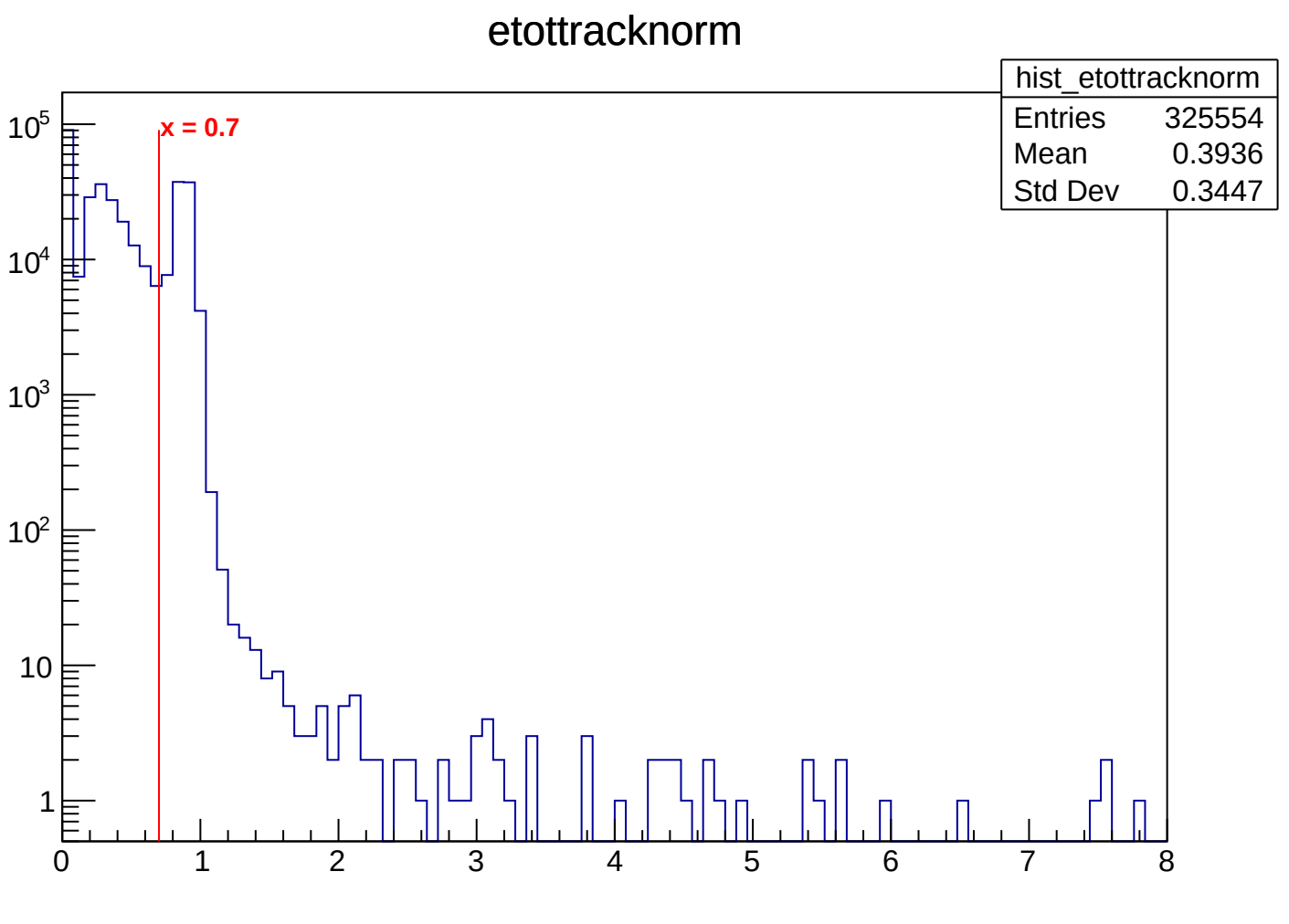
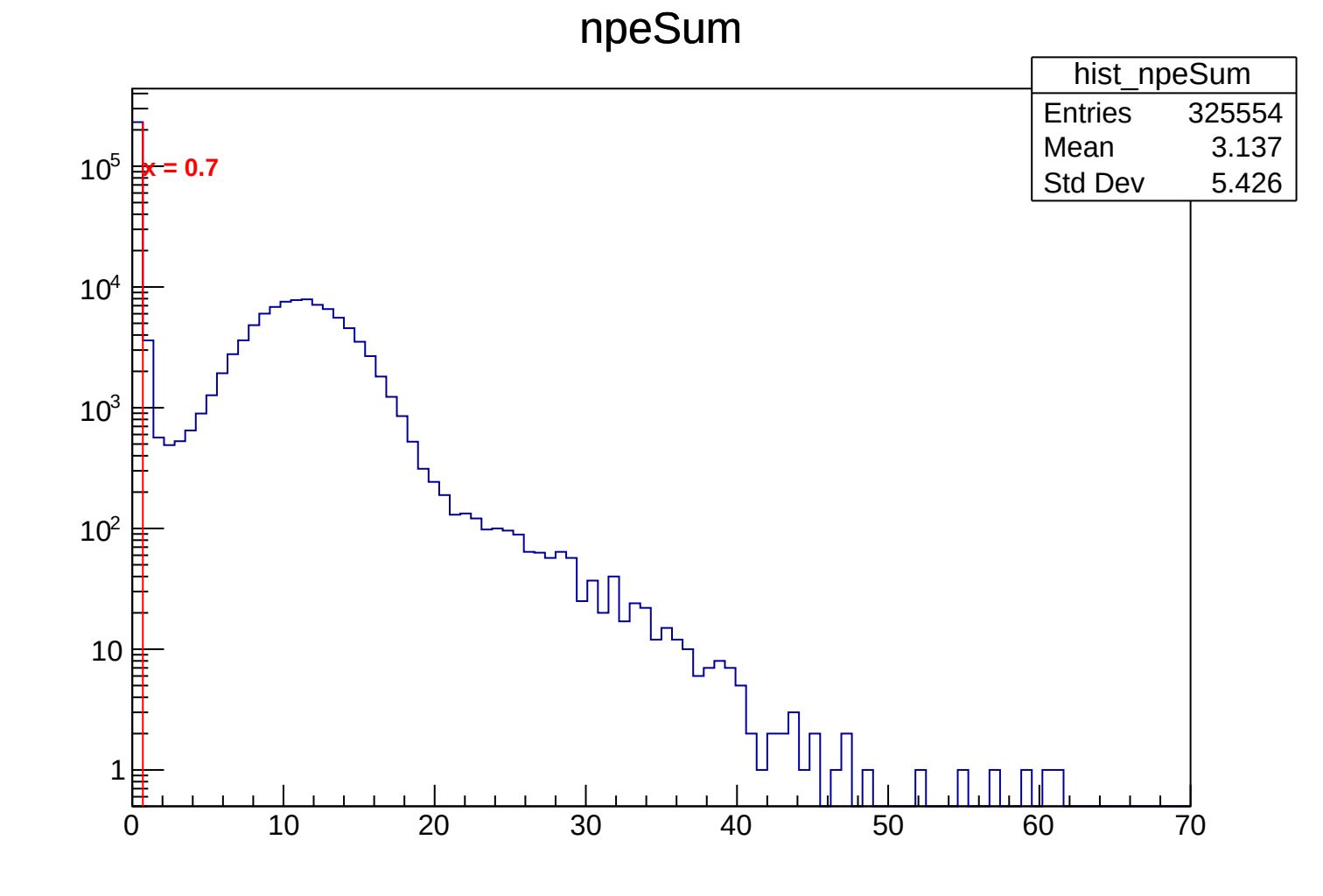
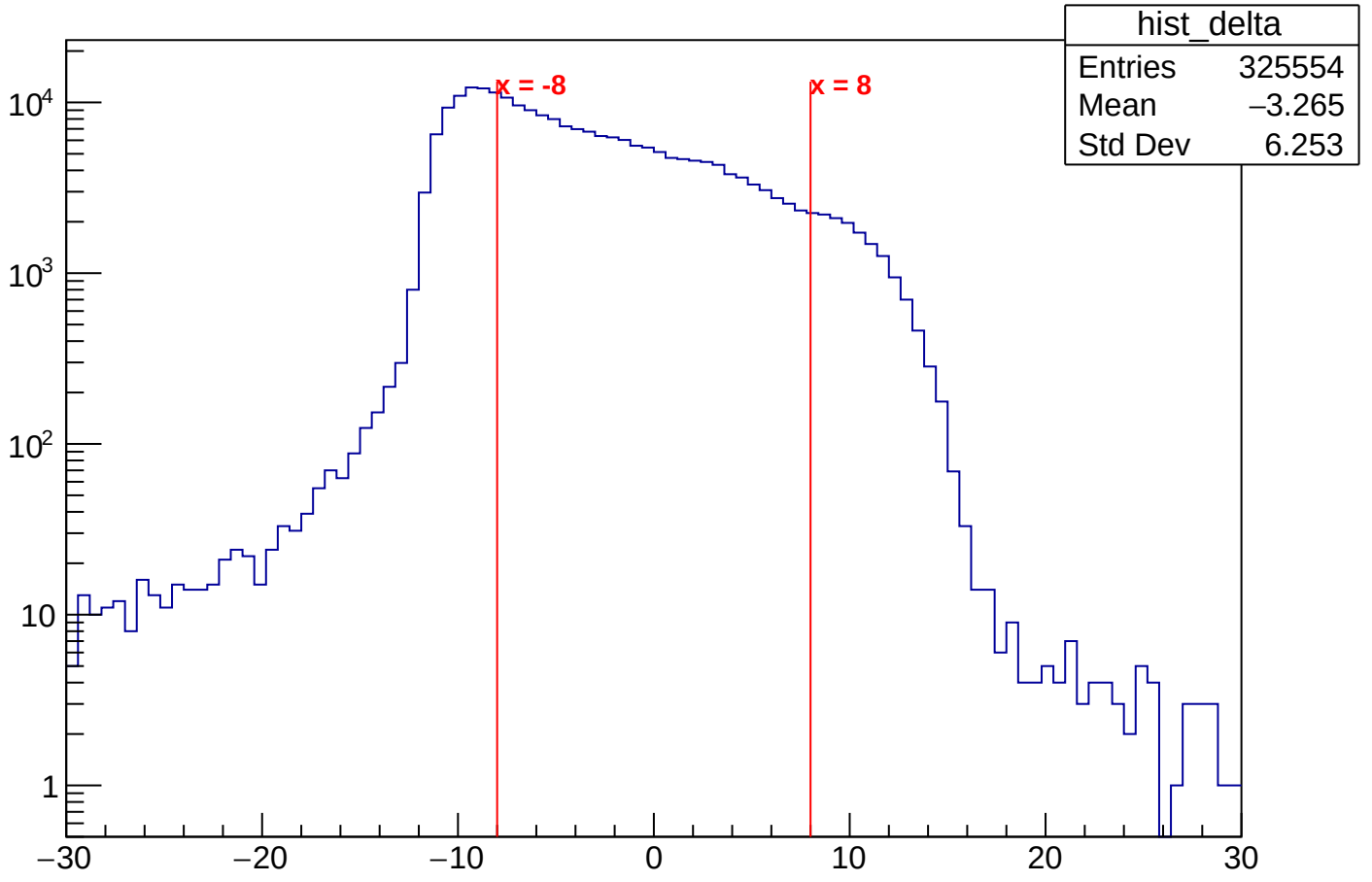
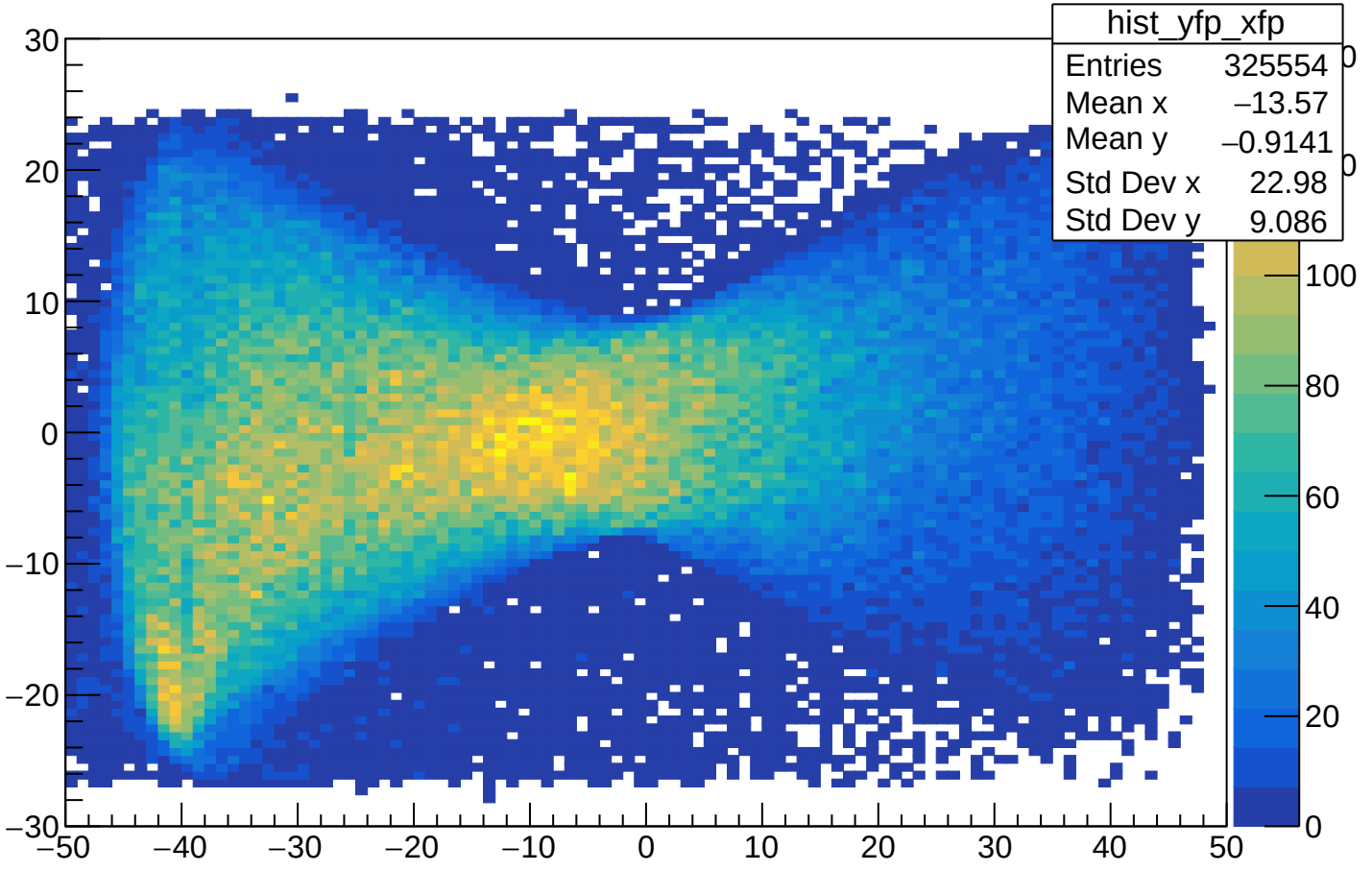
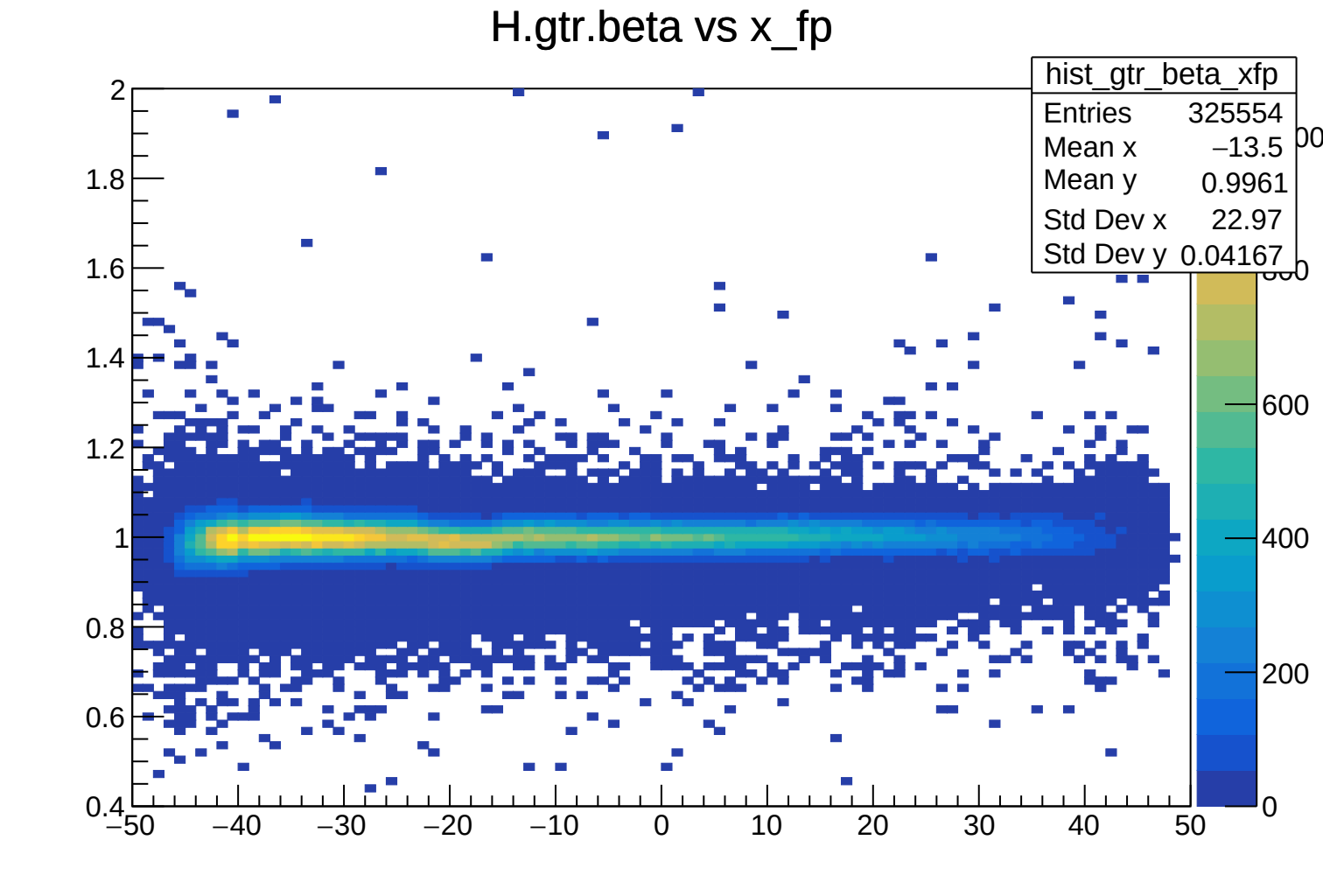

H.gtr.beta
Entries
Beta
Mean (no cuts) = 0.9993 ± 0.0001
Sigma (no cuts) = 0.0293 ± 0.0001
Mean (PID) = 1.0026 ± 0.0001
Sigma (PID) = 0.0277 ± 0.0001
Mean (PID & delta) = 1.0024 ± 0.0001
Sigma (PID & delta) = 0.0259 ± 0.0001
H.gtr.beta without cuts
Fit: H.gtr.beta without cuts
H.gtr.beta with PID cuts
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

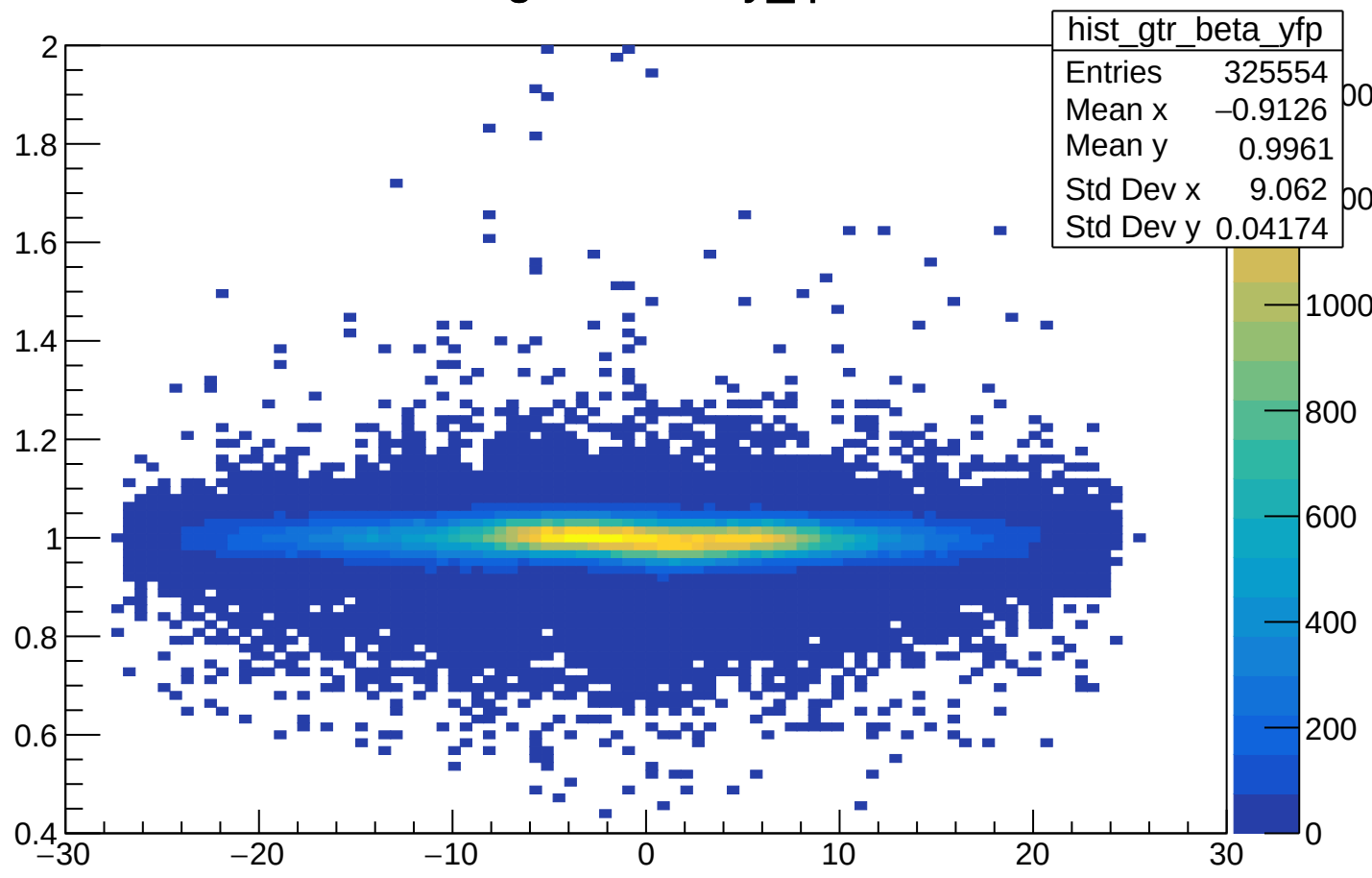

etottracknorm
hist_etottracknorm
Entries 325554
Mean 0.3936
Std Dev 0.3447
x = 0.7
10^5
10^4
10^3
10^2
10
1
0
1
2
3
4
5
6
7
8

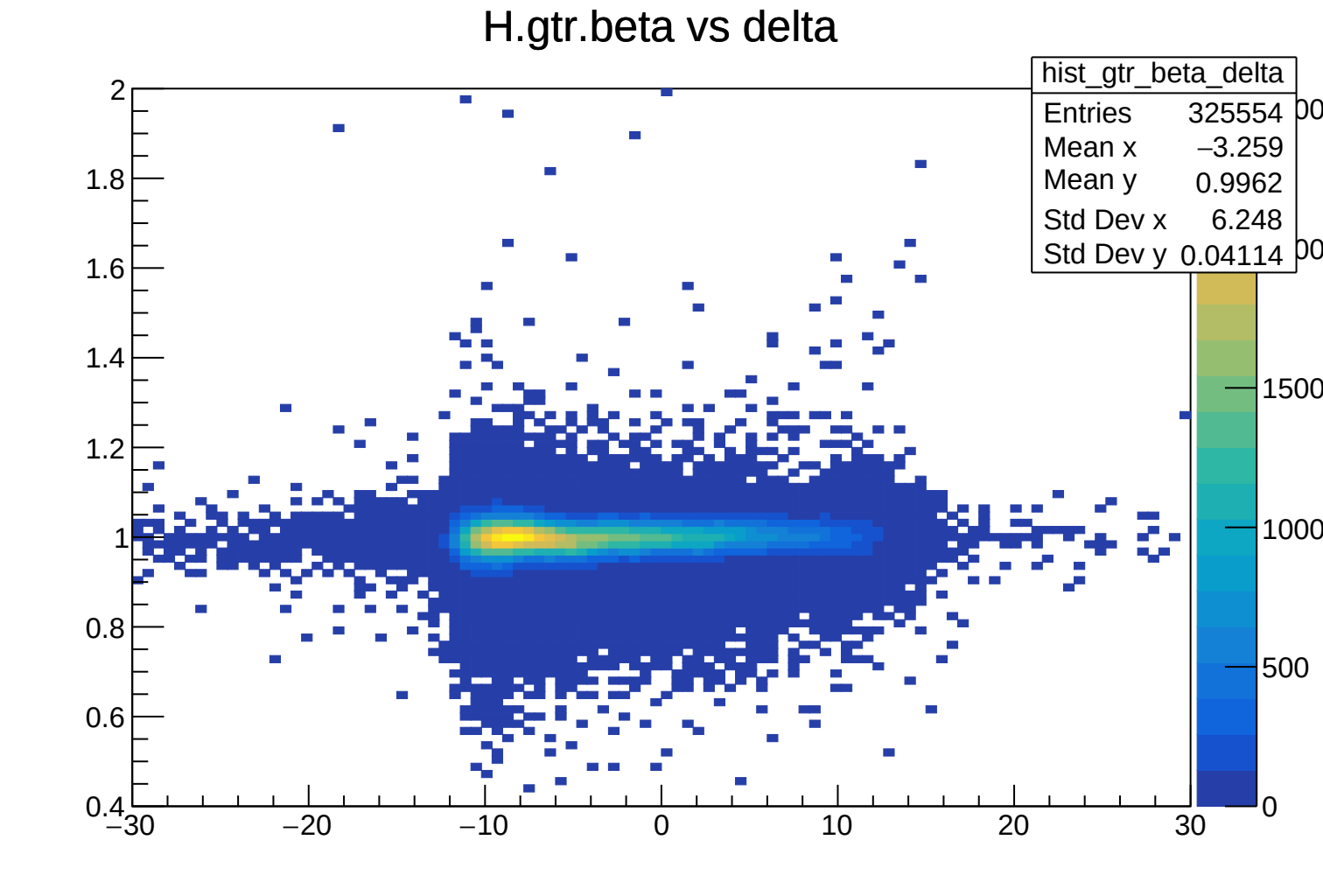

npeSum
hist_npeSum
Entries 325554
Mean 3.137
Std Dev 5.426
x = 0.7
10^5
10^4
10^3
10^2
10
1
0
10
20
30
40
50
60
70

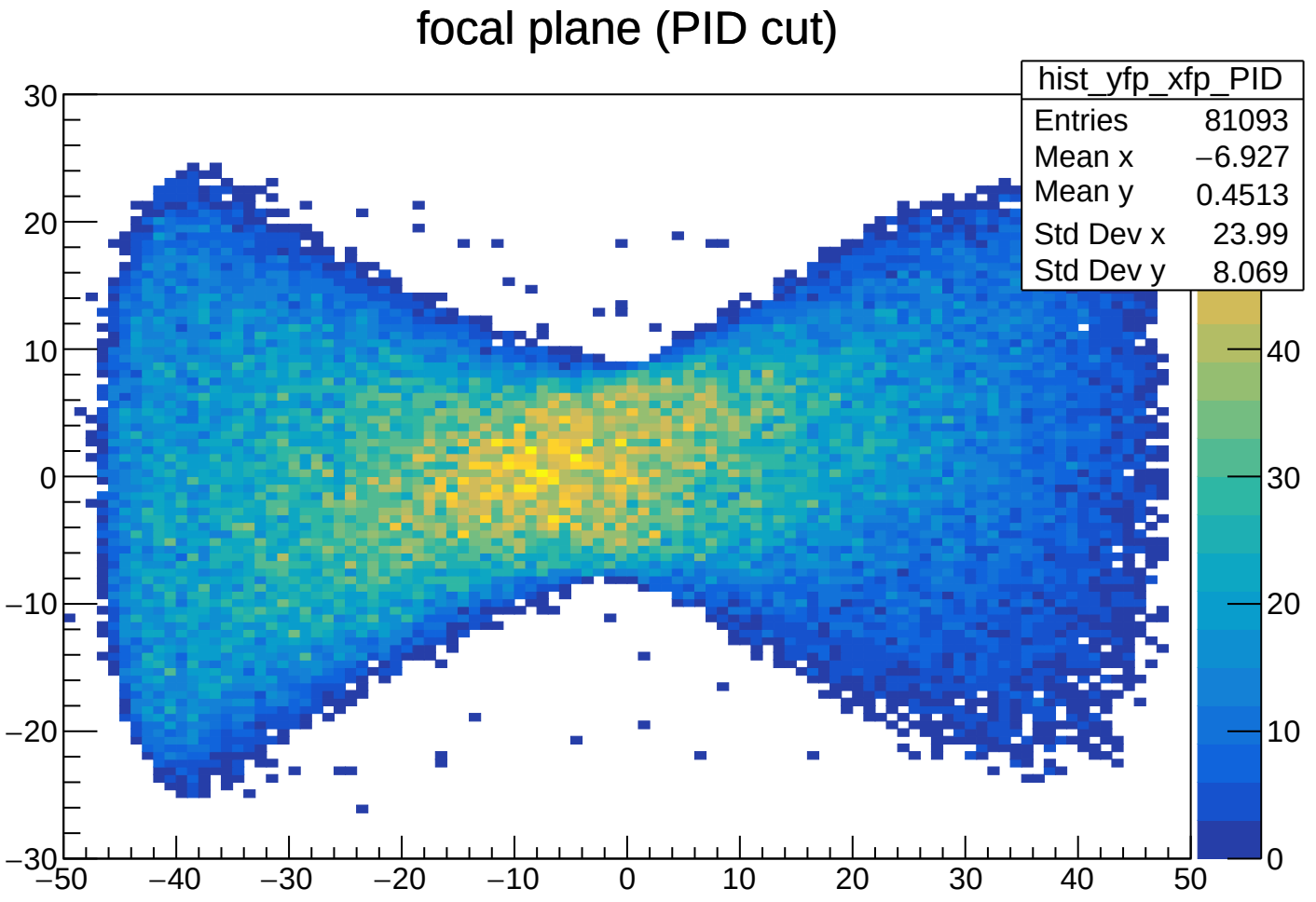

delta
hist_delta
Entries 325554
Mean −3.265
Std Dev 6.253
x = -8
x = 8
10^4
10^3
10^2
10
1
−30
−20
−10
0
10
20
30

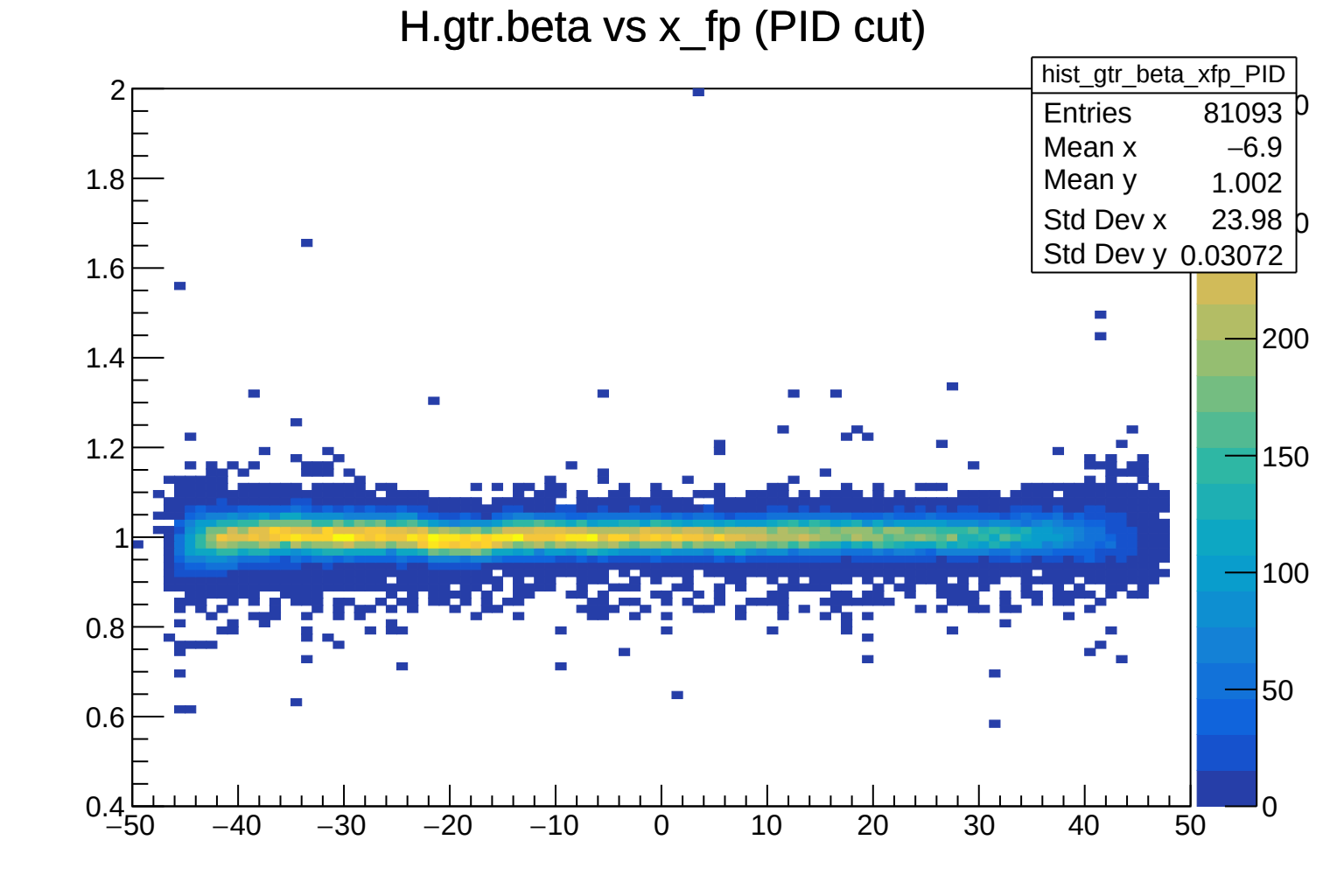

focal plane
hist_yfp_xfp
Entries 325554
Mean x −13.57
Mean y −0.9141
Std Dev x 22.98
Std Dev y 9.086
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
100
80
60
40
20
0

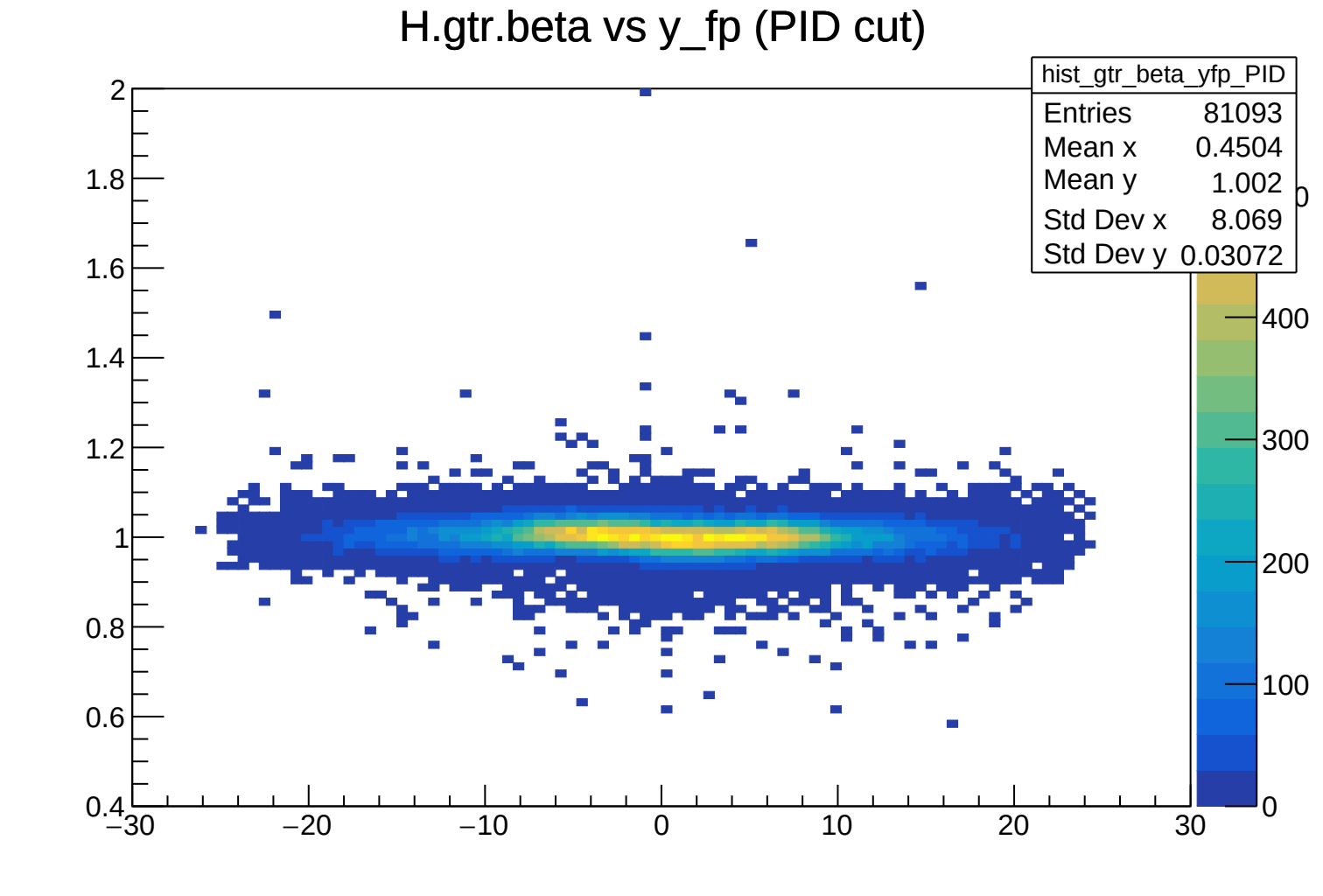

H.gtr.beta vs x_fp
hist_gtr_beta_xfp
Entries 325554
Mean x −13.5
Mean y 0.9961
Std Dev x 22.97
Std Dev y 0.04167
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−50
−40
−30
−20
−10
0
10
20
30
40
50
600
400
200
0

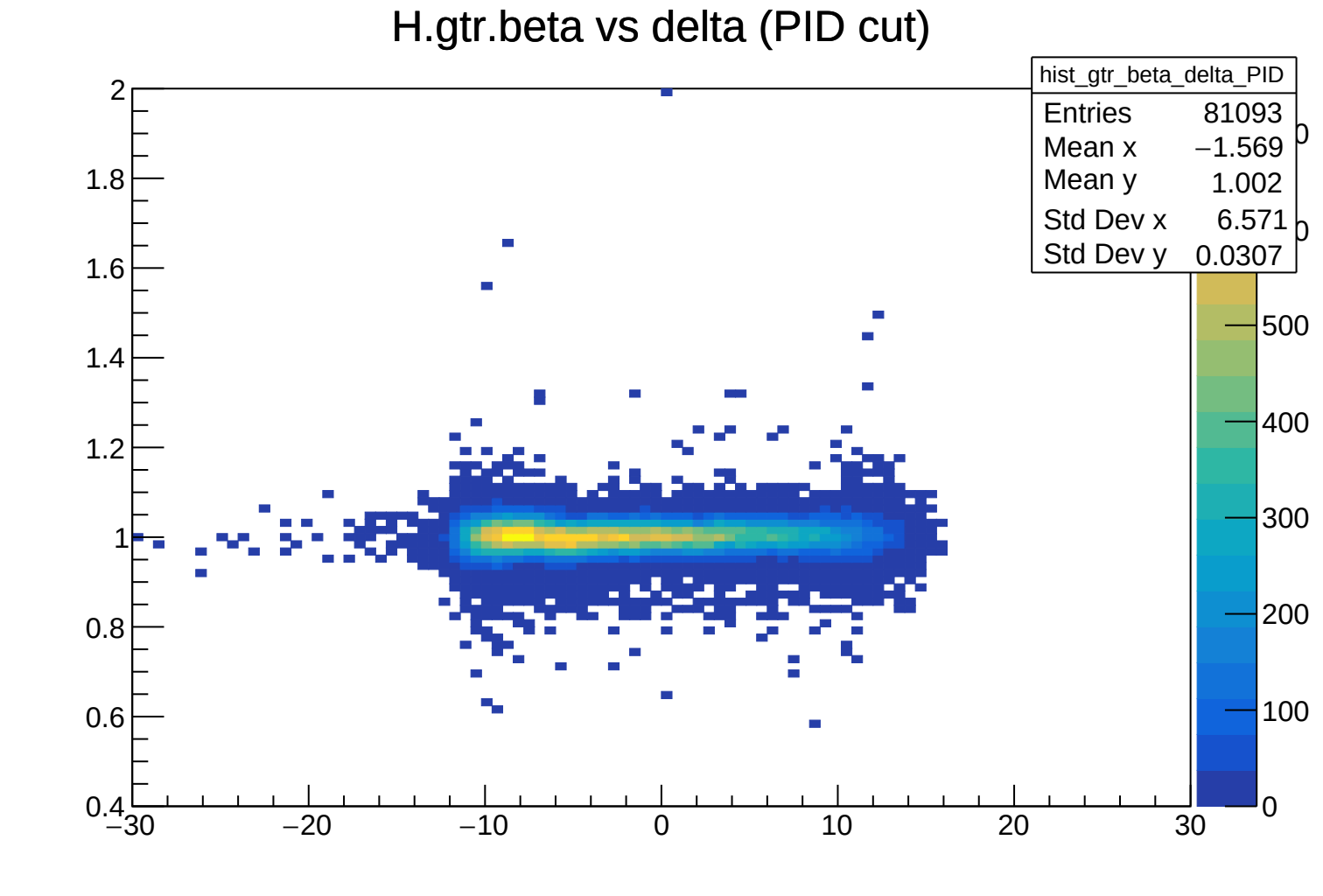

H.gtr.beta vs y_fp
hist_gtr_beta_yfp
Entries 325554
Mean x −0.9126
Mean y 0.9961
Std Dev x 9.062
Std Dev y 0.04174
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
1000
800
600
400
200
0

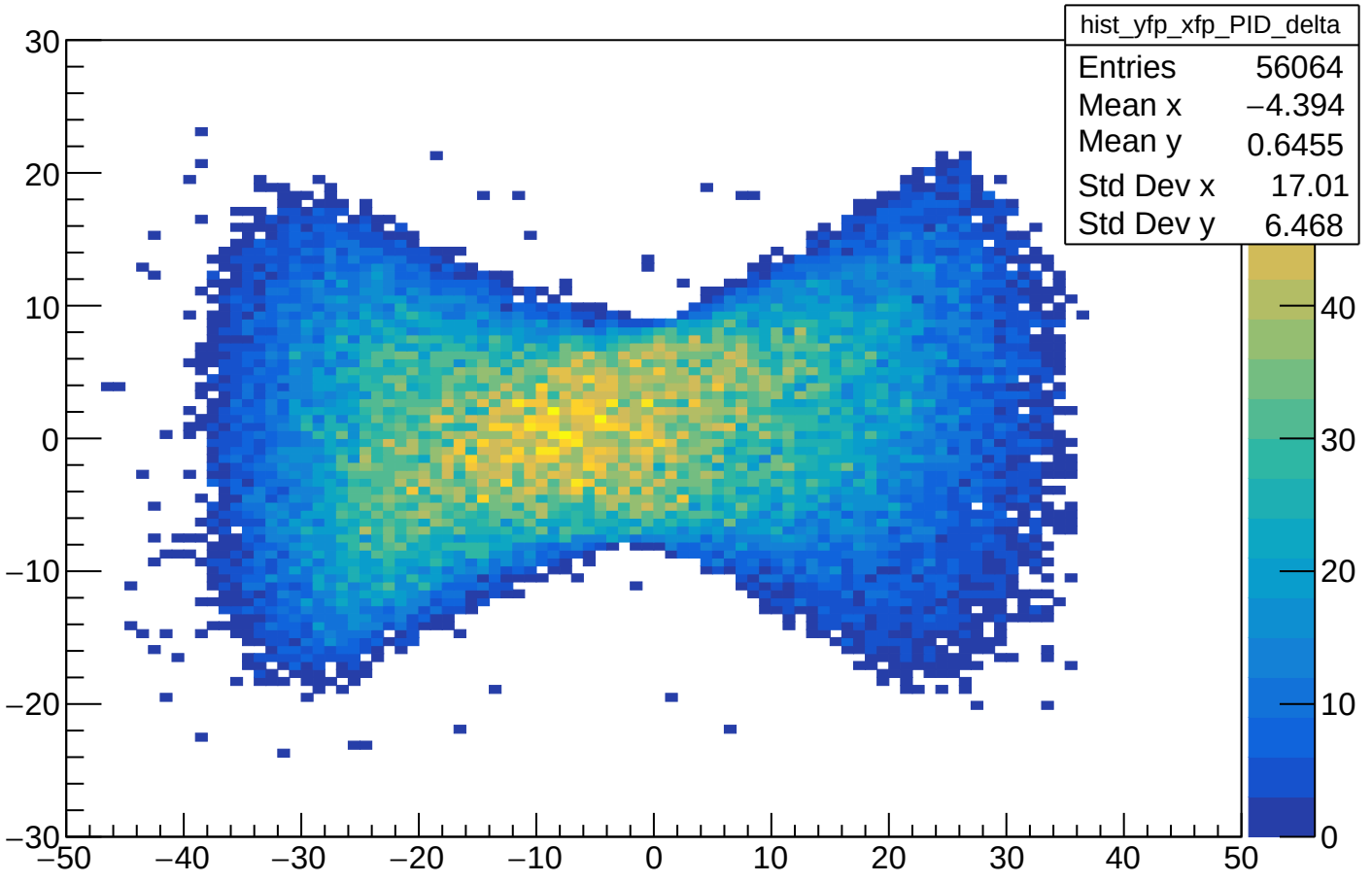

H.gtr.beta vs delta
hist_gtr_beta_delta
Entries 325554
Mean x −3.259
Mean y 0.9962
Std Dev x 6.248
Std Dev y 0.04114
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
1500
1000
500
0

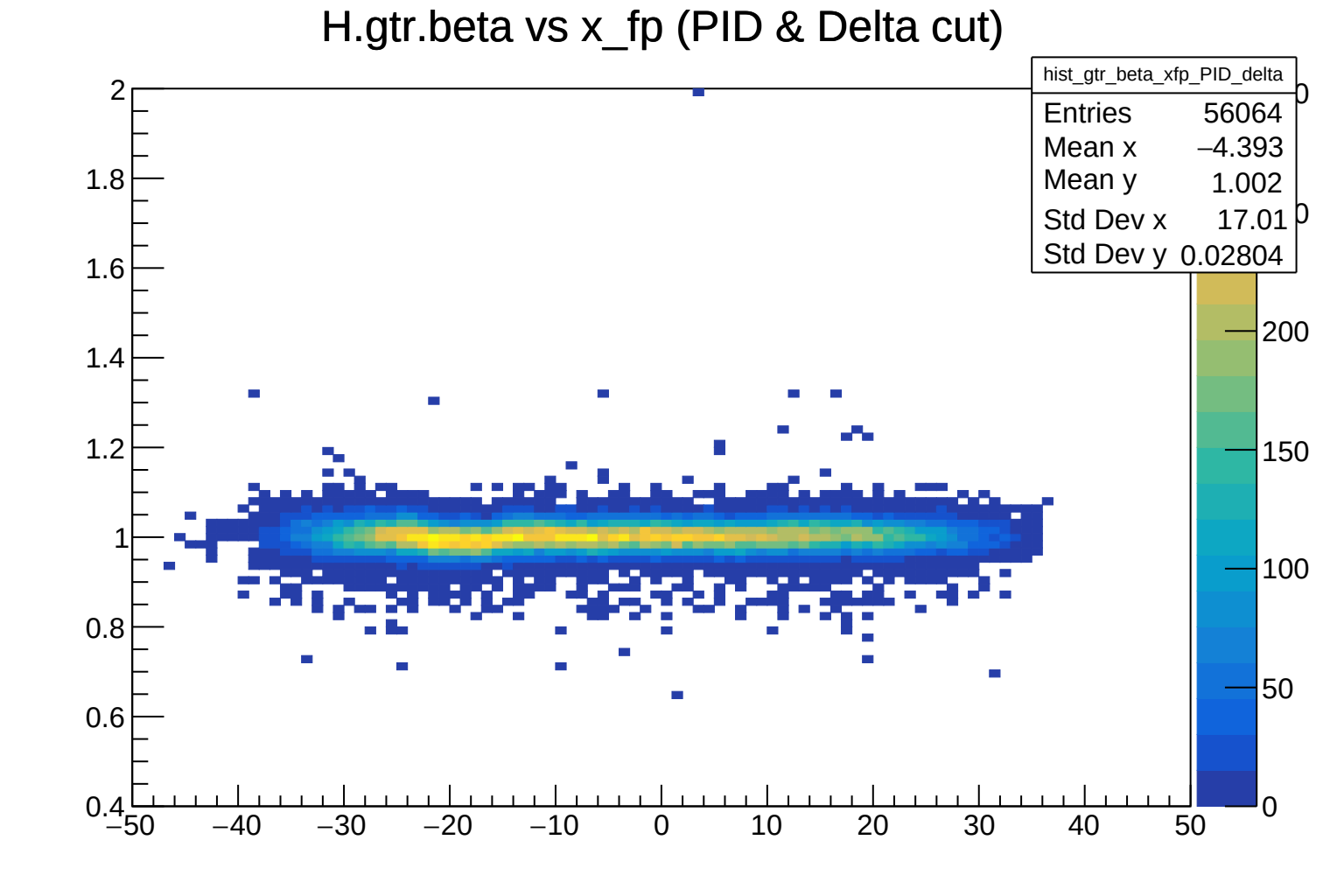

focal plane (PID cut)
hist_yfp_xfp_PID
Entries 81093
Mean x −6.927
Mean y 0.4513
Std Dev x 23.99
Std Dev y 8.069
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
40
30
20
10
0

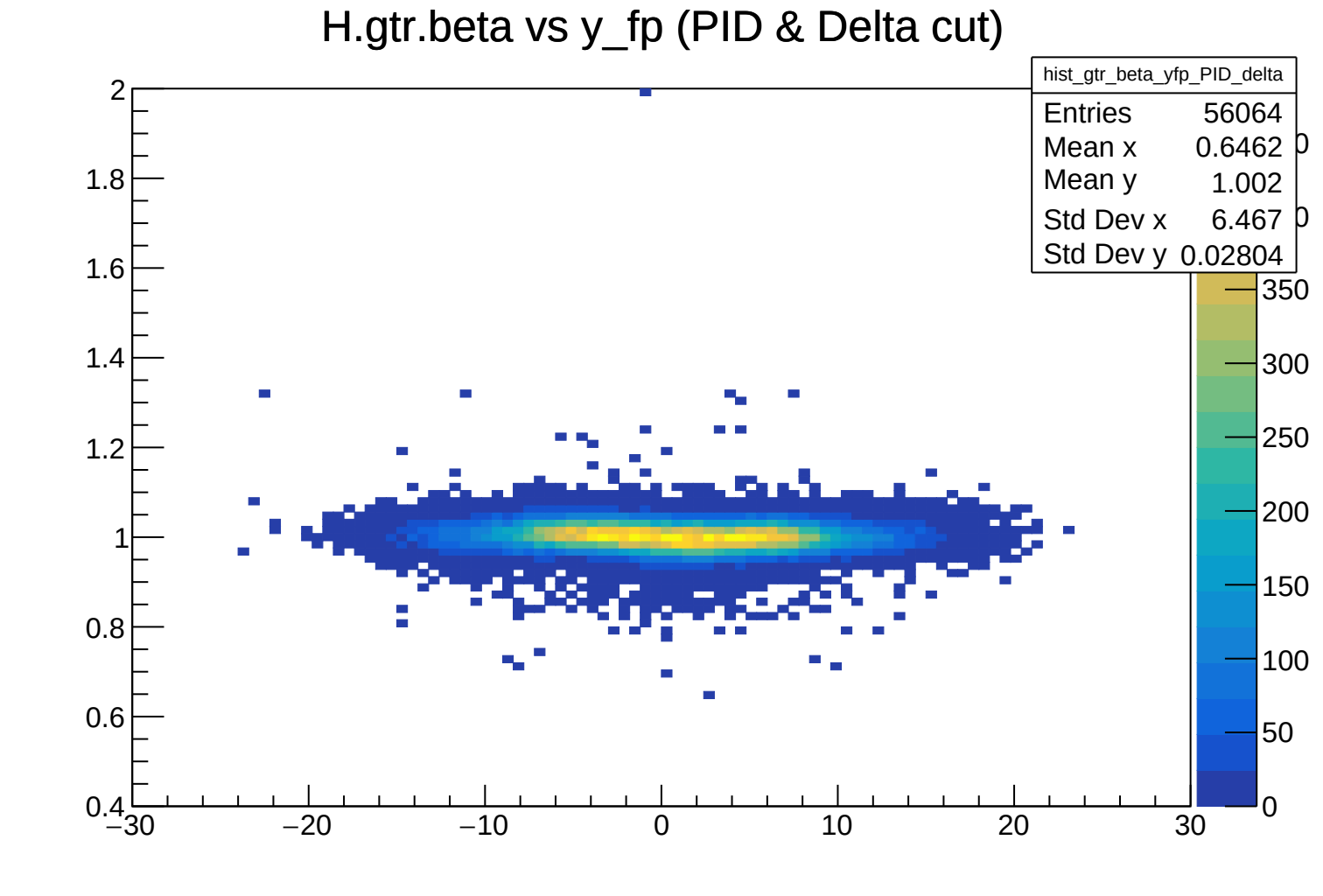

H.gtr.beta vs x_fp (PID cut)
hist_gtr_beta_xfp_PID
Entries 81093
Mean x −6.9
Mean y 1.002
Std Dev x 23.98
Std Dev y 0.03072
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−50
−40
−30
−20
−10
0
10
20
30
40
50
200
150
100
50
0

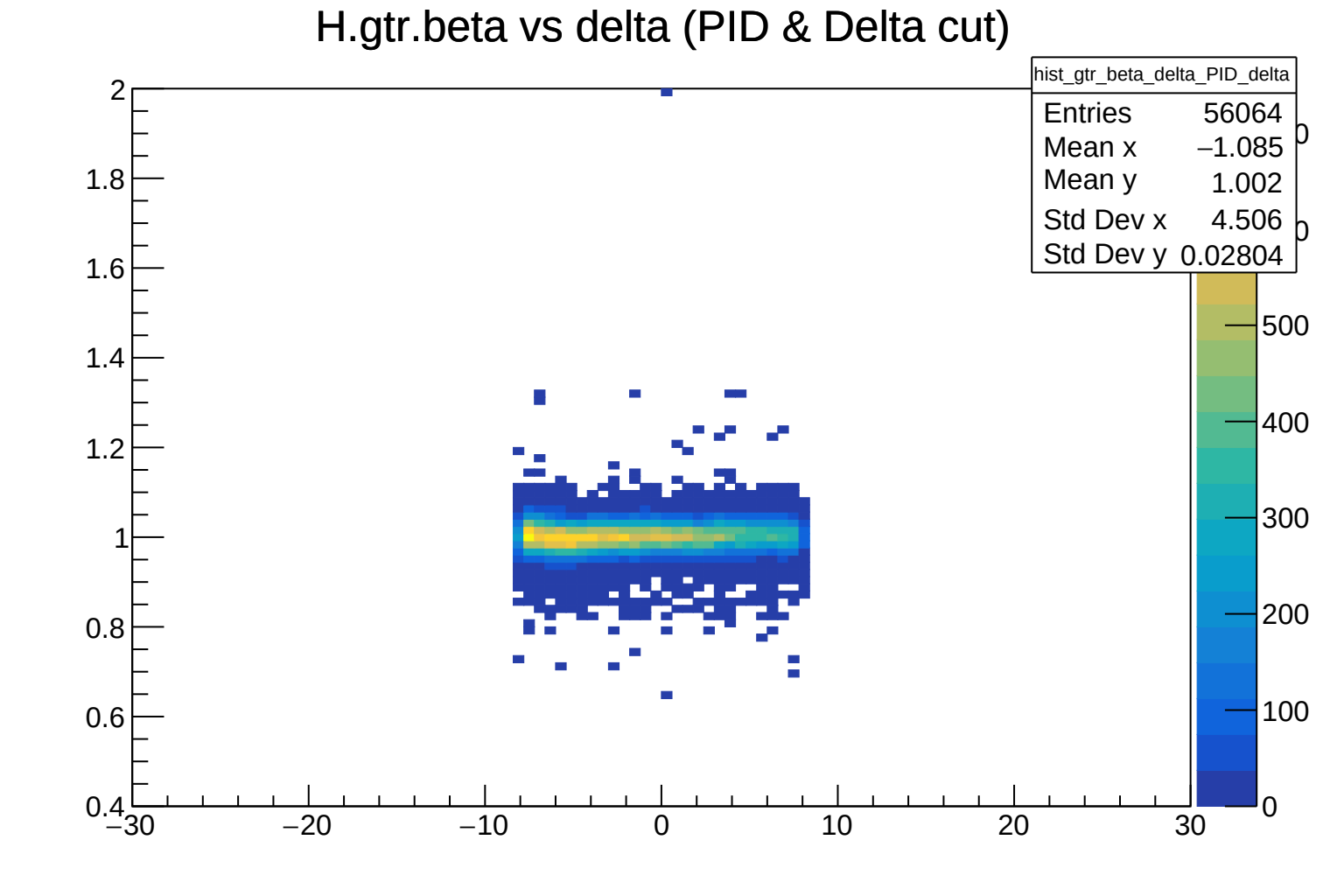

H.gtr.beta vs y_fp (PID cut)
hist_gtr_beta_yfp_PID
Entries 81093
Mean x 0.4504
Mean y 1.002
Std Dev x 8.069
Std Dev y 0.03072
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
400
300
200
100
0


H.gtr.beta vs delta (PID cut)
hist_gtr_beta_delta_PID
Entries 81093
Mean x −1.569
Mean y 1.002
Std Dev x 6.571
Std Dev y 0.0307
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
500
400
300
200
100
0


focal plane (PID & Delta cut)
hist_yfp_xfp_PID_delta
Entries 56064
Mean x −4.394
Mean y 0.6455
Std Dev x 17.01
Std Dev y 6.468
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
40
30
20
10
0


H.gtr.beta vs x_fp (PID & Delta cut)
hist_gtr_beta_xfp_PID_delta
Entries 56064
Mean x –4.393
Mean y 1.002
Std Dev x 17.01
Std Dev y 0.02804
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
200
150
100
50
0


H.gtr.beta vs y_fp (PID & Delta cut)
hist_gtr_beta_yfp_PID_delta
Entries 56064
Mean x 0.6462
Mean y 1.002
Std Dev x 6.467
Std Dev y 0.02804
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
350
300
250
200
150
100
50
0


H.gtr.beta vs delta (PID & Delta cut)
hist_gtr_beta_delta_PID_delta
Entries 56064
Mean x −1.085
Mean y 1.002
Std Dev x 4.506
Std Dev y 0.02804
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
500
400
300
200
100
0