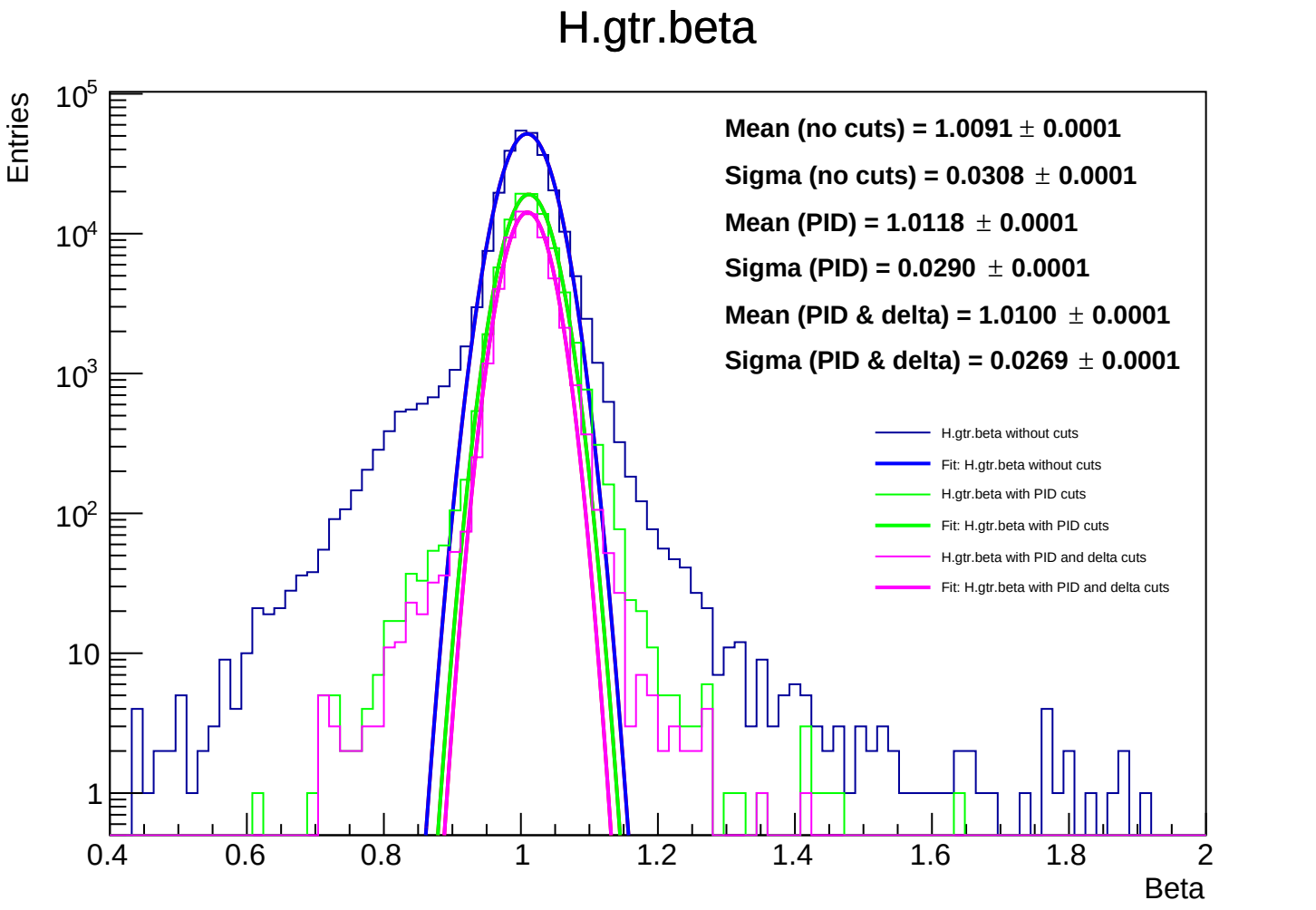
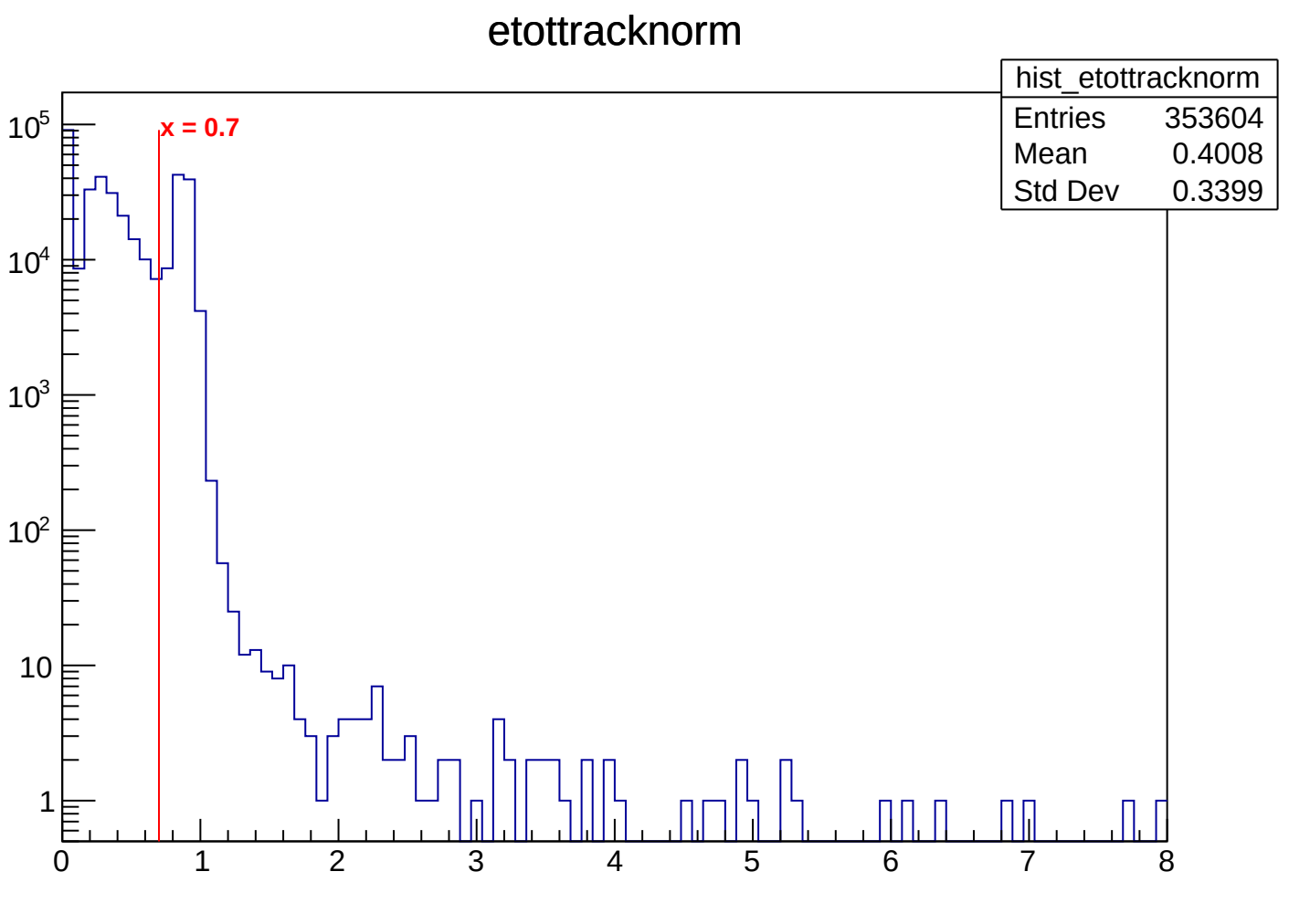
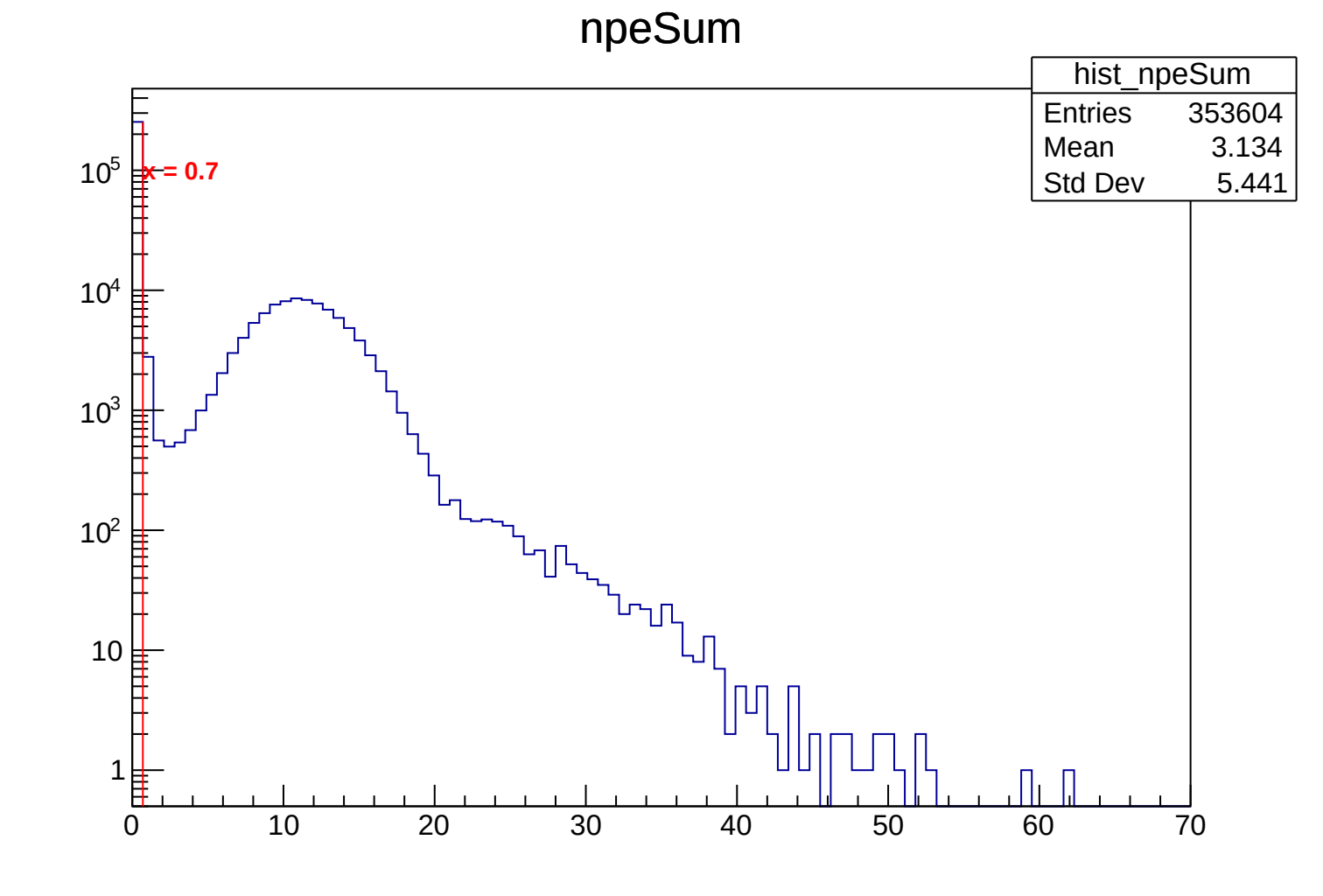
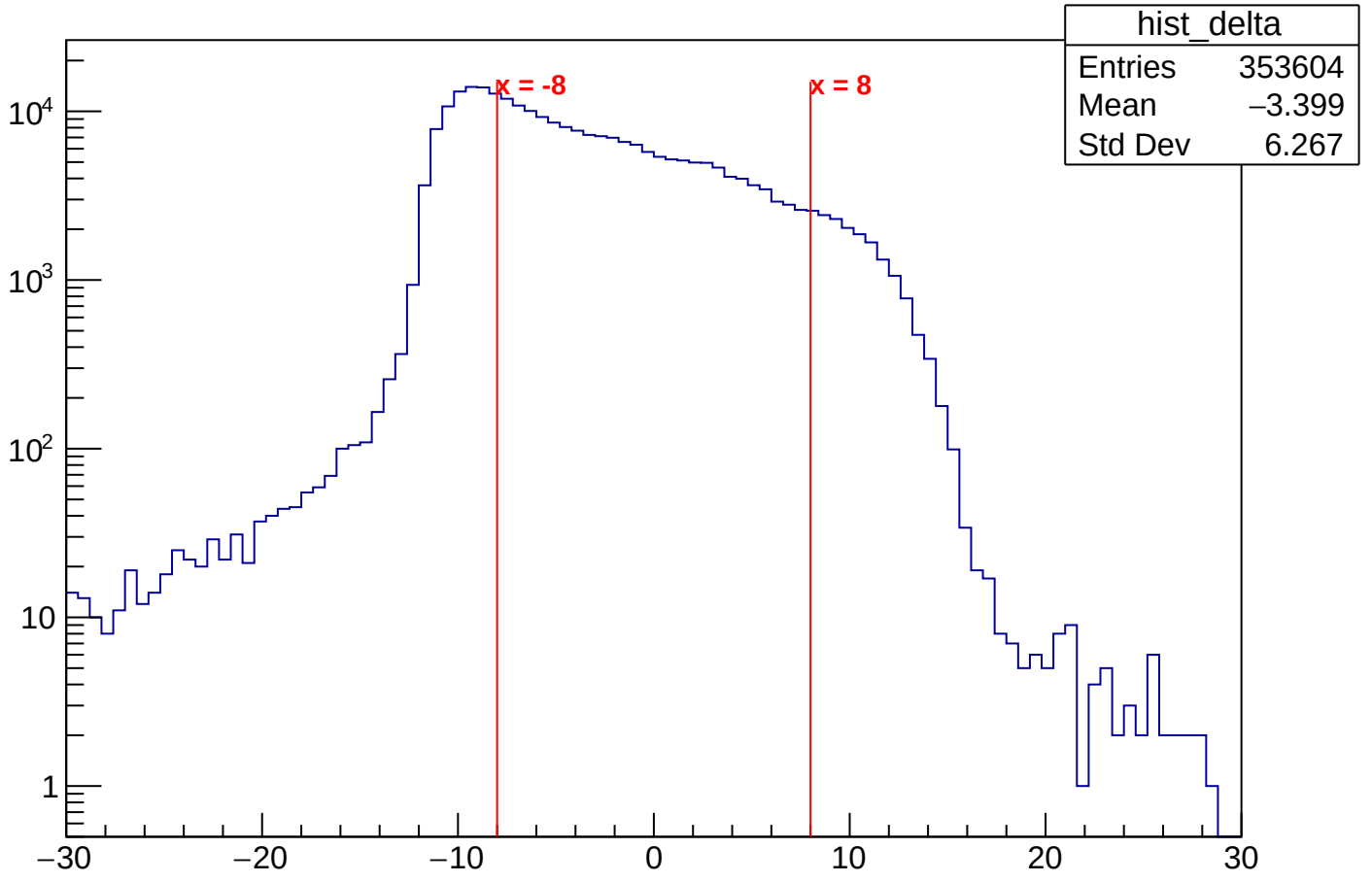
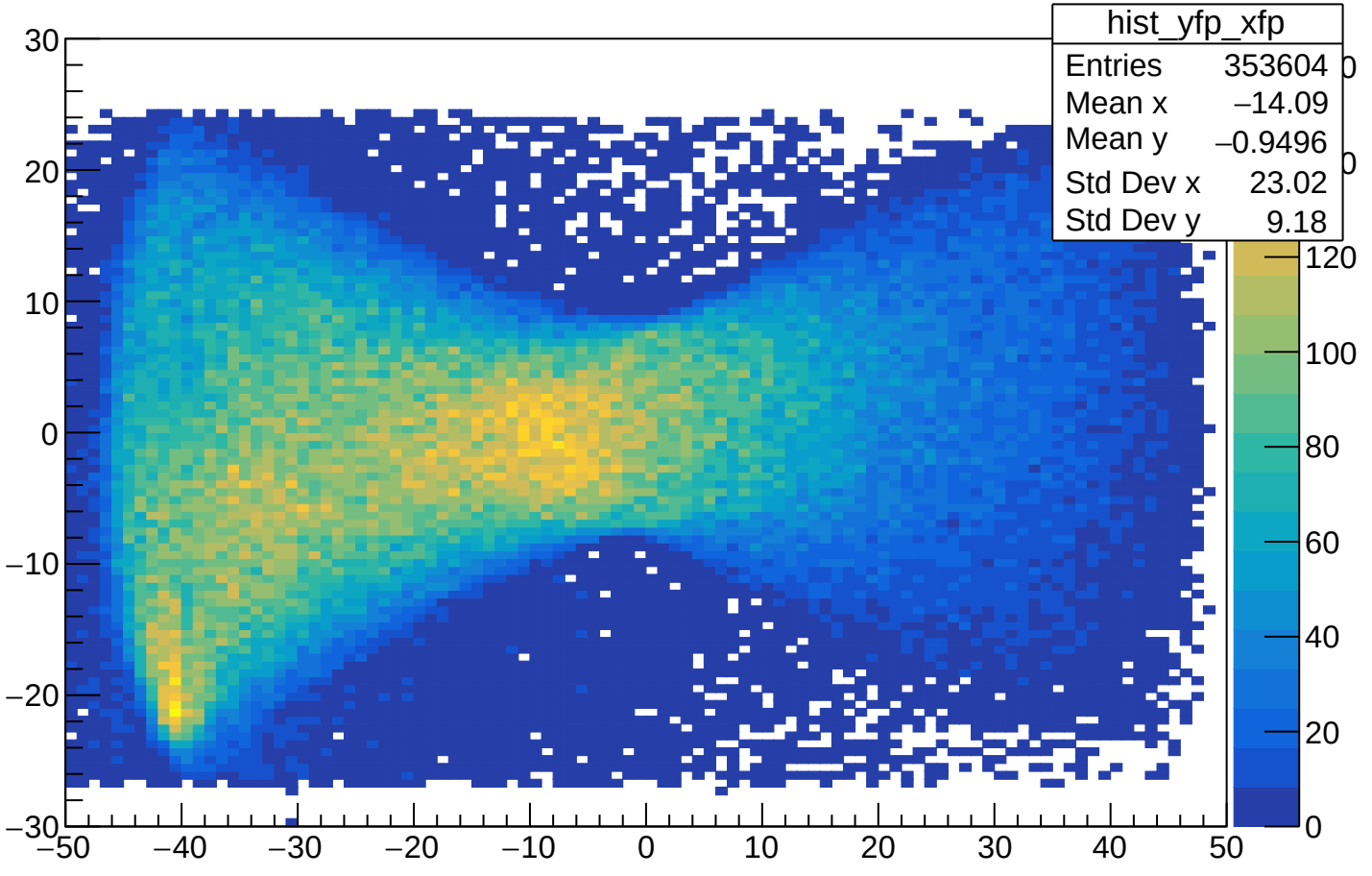
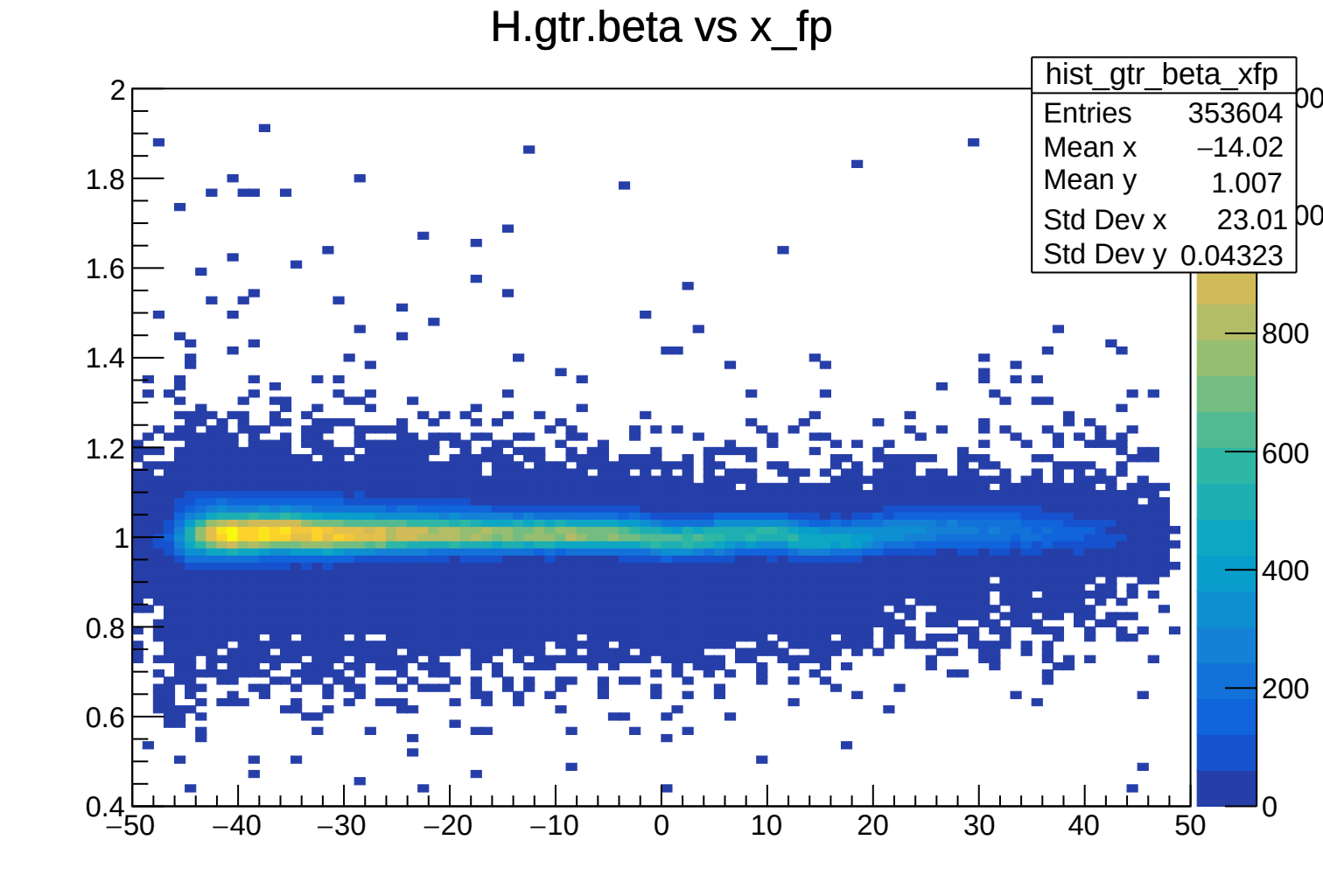

H.gtr.beta
Entries
Beta
Mean (no cuts) = 1.0091 ± 0.0001
Sigma (no cuts) = 0.0308 ± 0.0001
Mean (PID) = 1.0118 ± 0.0001
Sigma (PID) = 0.0290 ± 0.0001
Mean (PID & delta) = 1.0100 ± 0.0001
Sigma (PID & delta) = 0.0269 ± 0.0001
H.gtr.beta without cuts
Fit: H.gtr.beta without cuts
H.gtr.beta with PID cuts
Fit: H.gtr.beta with PID cuts
H.gtr.beta with PID and delta cuts
Fit: H.gtr.beta with PID and delta cuts

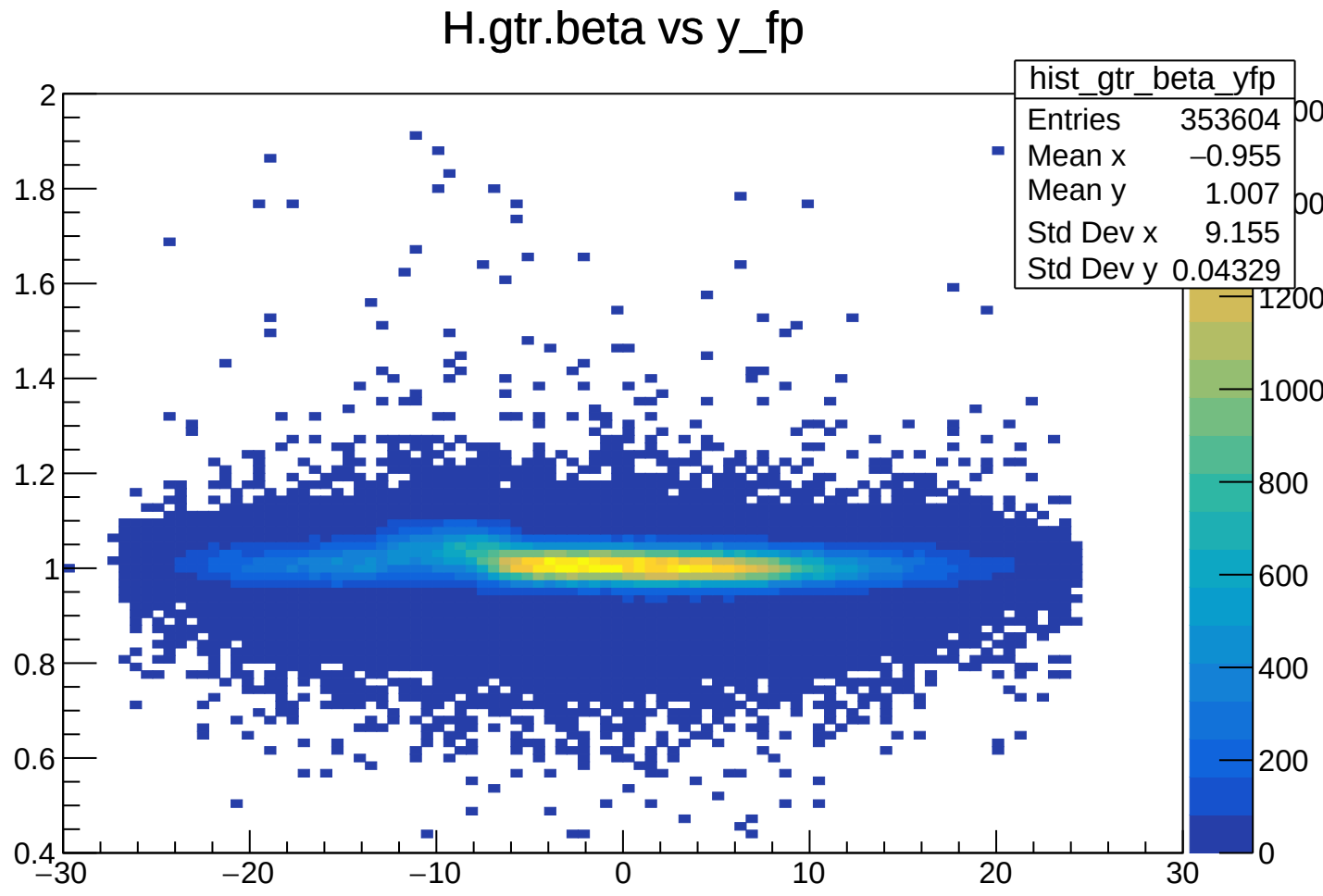

etottracknorm
hist_etottracknorm
Entries 353604
Mean 0.4008
Std Dev 0.3399
x = 0.7
10^5
10^4
10^3
10^2
10
1
0
1
2
3
4
5
6
7
8

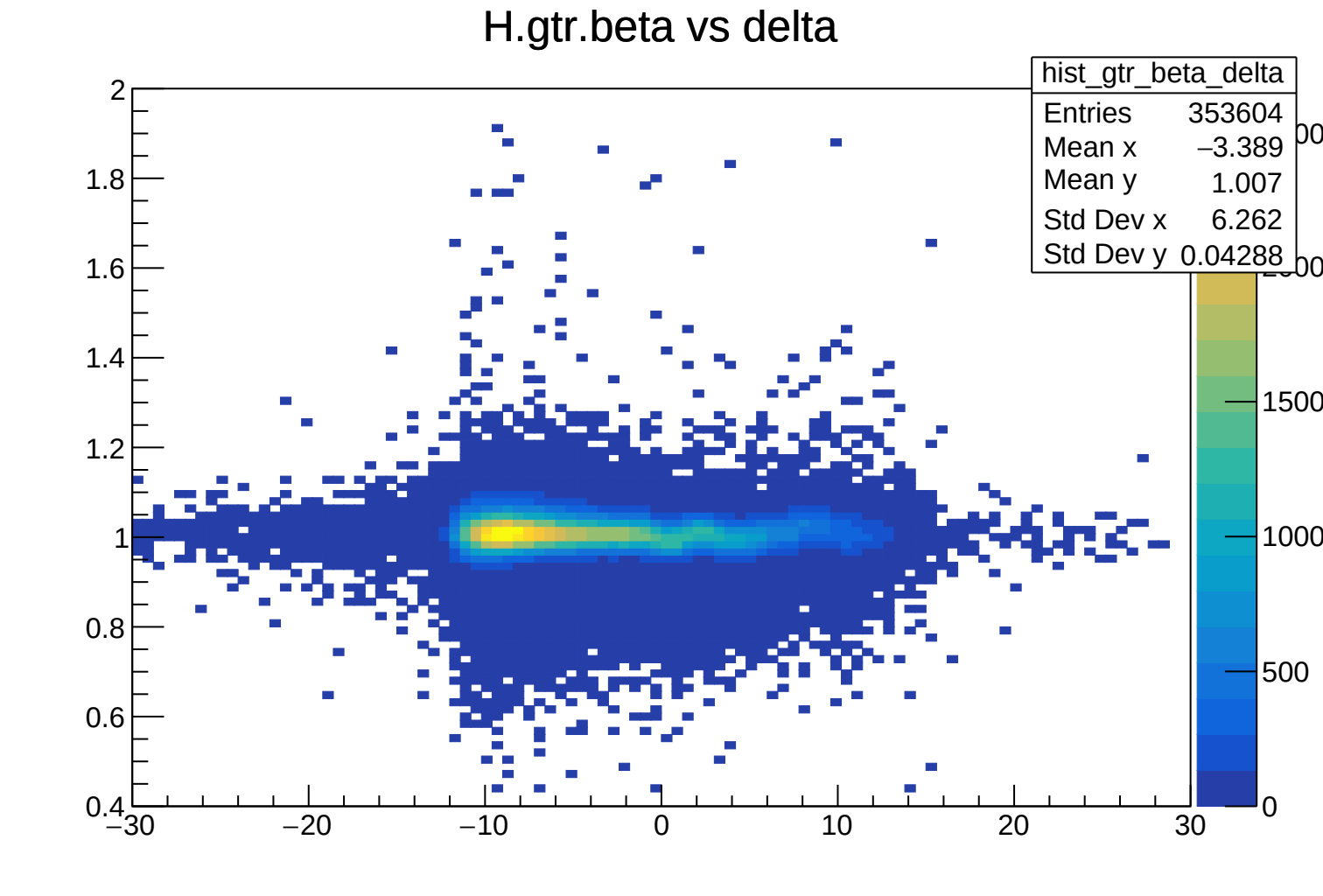

npeSum
hist_npeSum
Entries 353604
Mean 3.134
Std Dev 5.441
x = 0.7
10^5
10^4
10^3
10^2
10
1
0
10
20
30
40
50
60
70

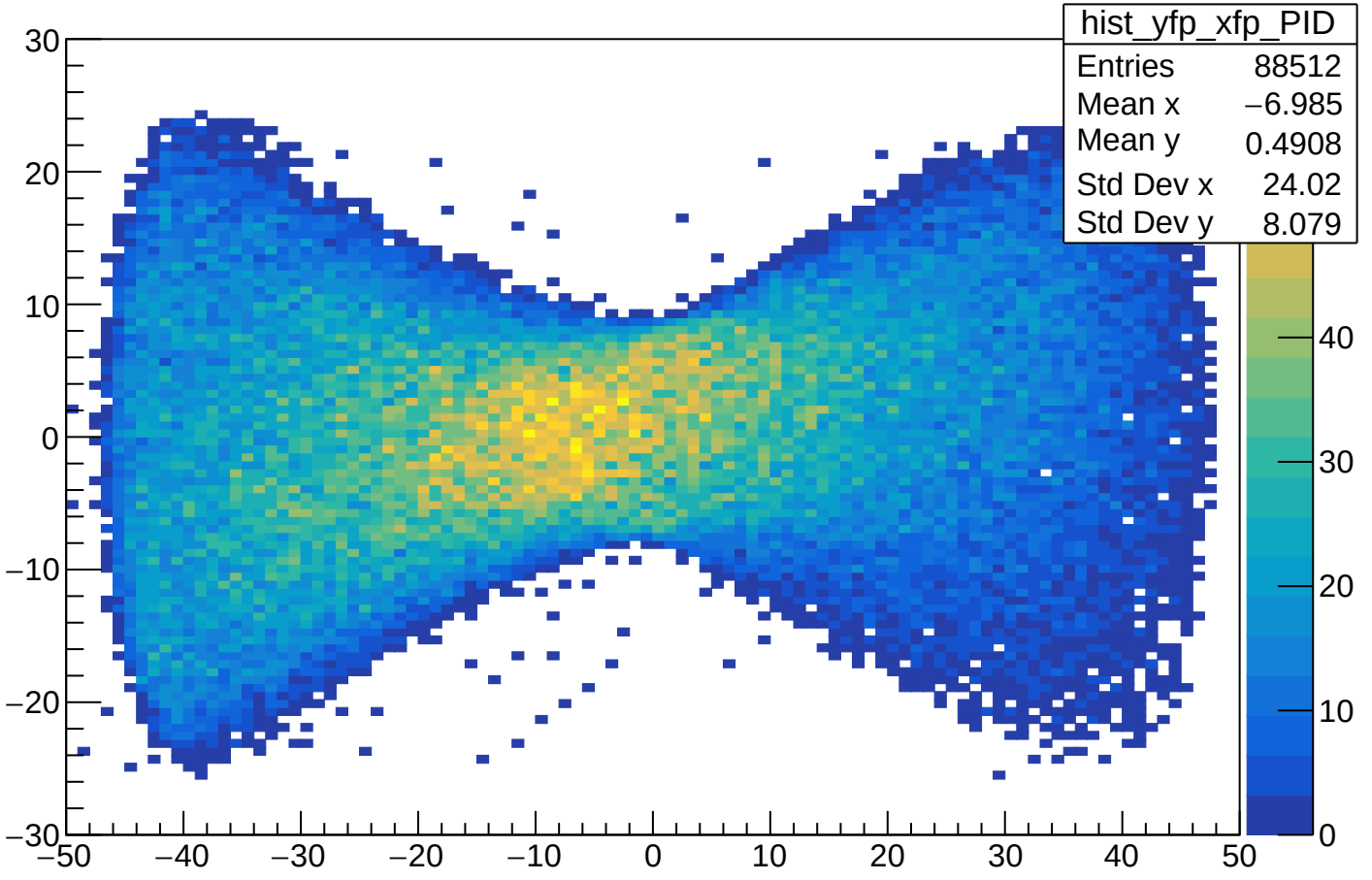

delta
hist_delta
Entries 353604
Mean −3.399
Std Dev 6.267
x = -8
x = 8
10^4
10^3
10^2
10
1
−30
−20
−10
0
10
20
30

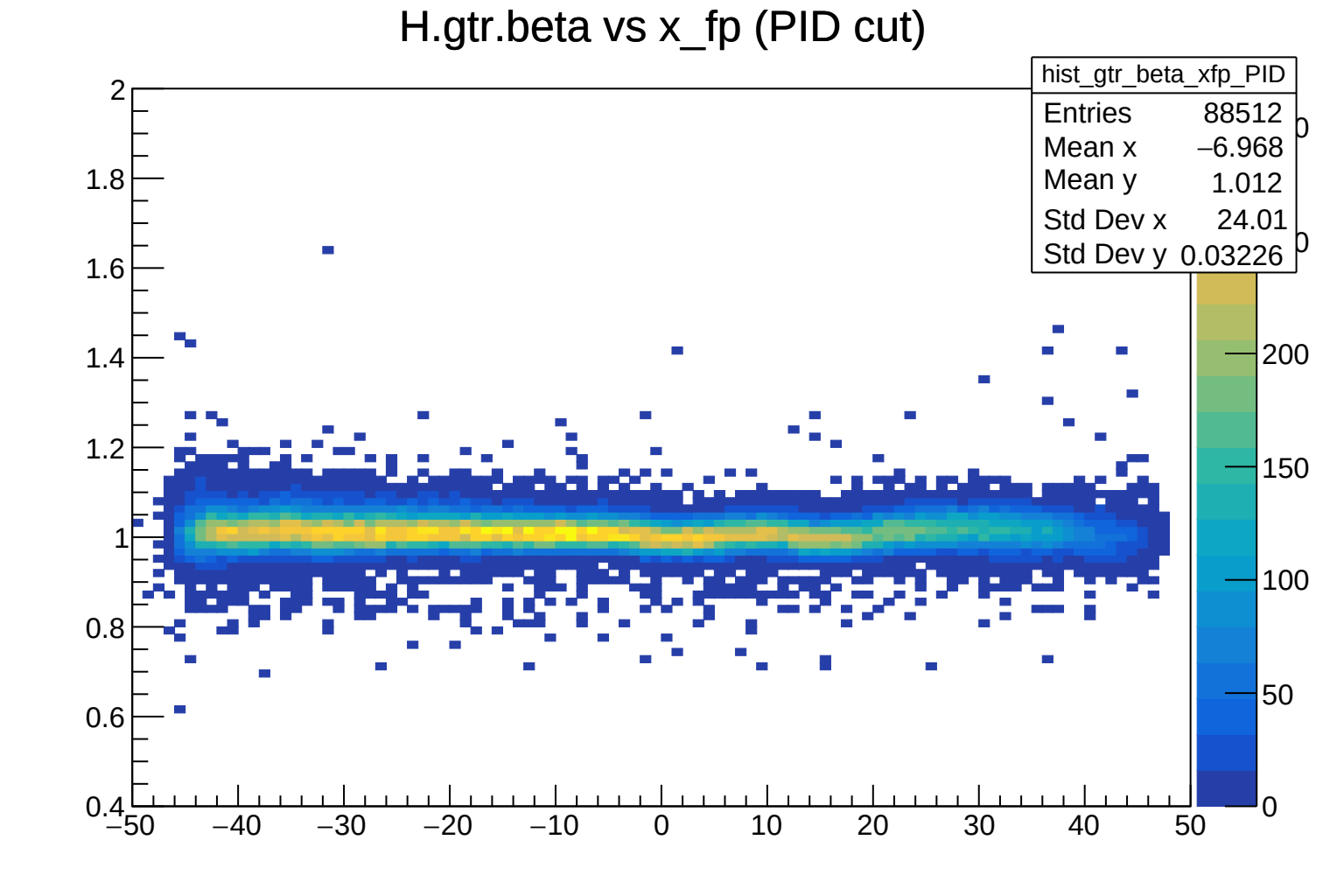

focal plane
hist_yfp_xfp
Entries 353604
Mean x −14.09
Mean y −0.9496
Std Dev x 23.02
Std Dev y 9.18
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
120
100
80
60
40
20
0

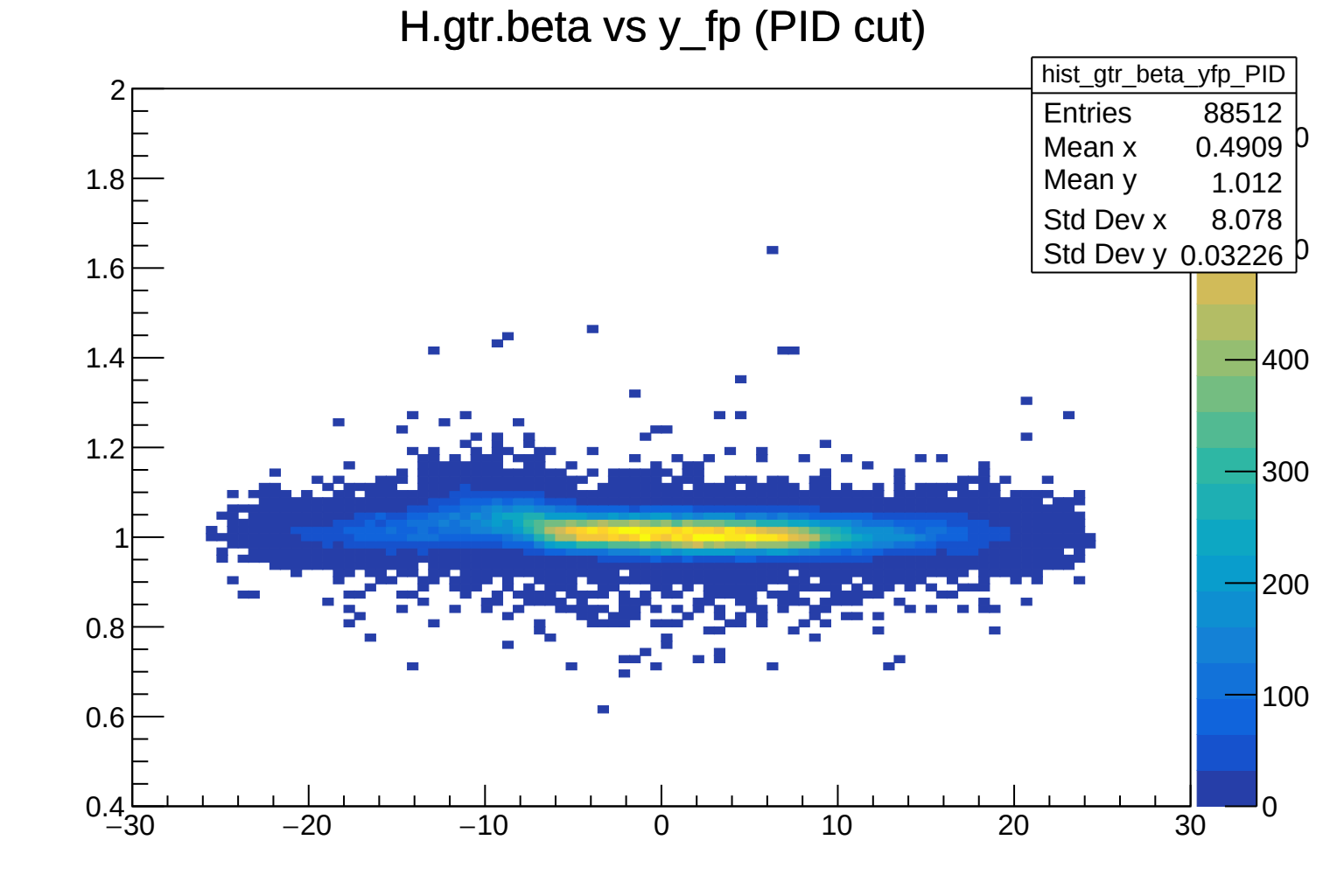

H.gtr.beta vs x_fp
hist_gtr_beta_xfp
Entries 353604
Mean x −14.02
Mean y 1.007
Std Dev x 23.01
Std Dev y 0.04323
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−50
−40
−30
−20
−10
0
10
20
30
40
50
800
600
400
200
0

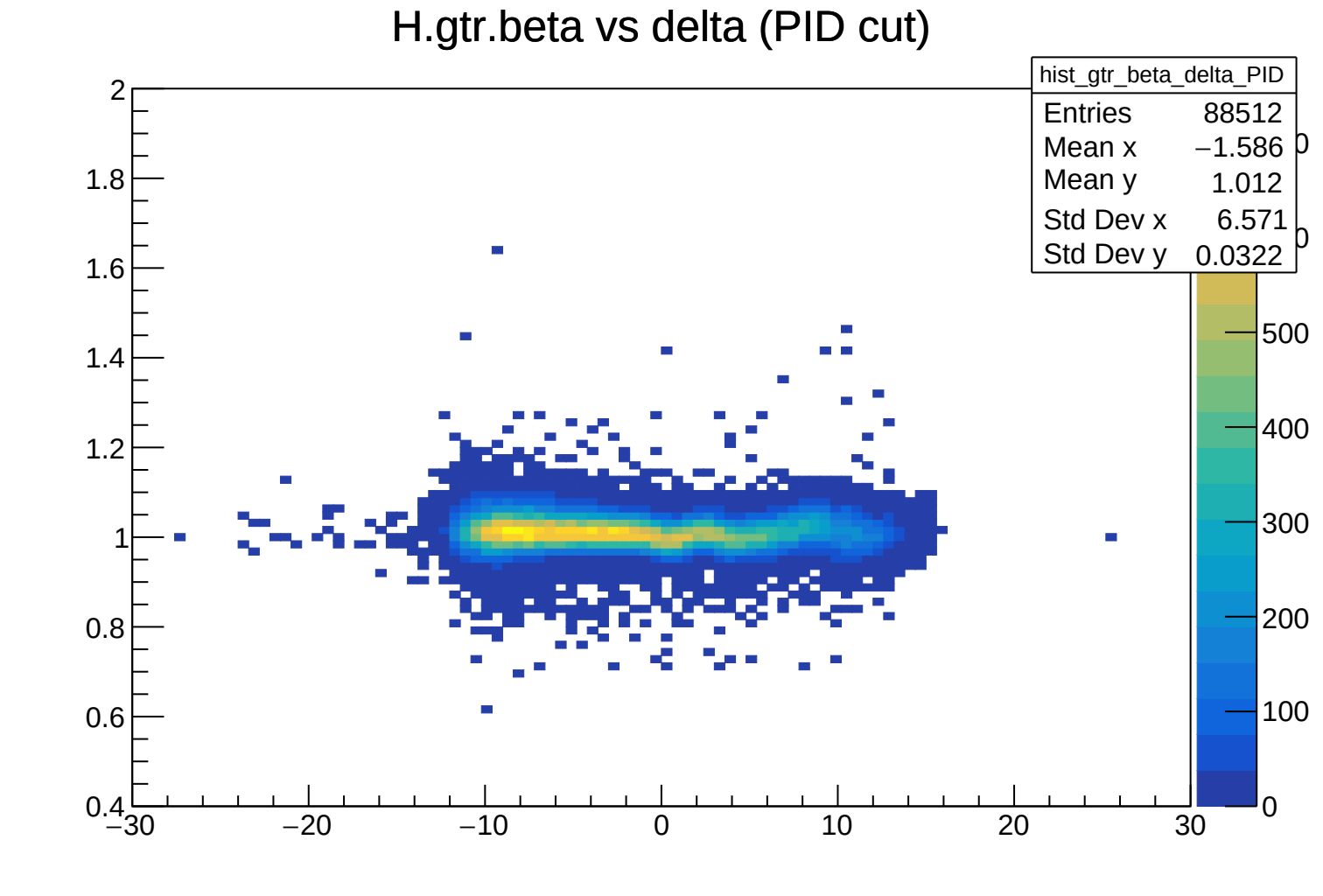

H.gtr.beta vs y_fp
hist_gtr_beta_yfp
Entries 353604
Mean x −0.955
Mean y 1.007
Std Dev x 9.155
Std Dev y 0.04329
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
1200
1000
800
600
400
200
0

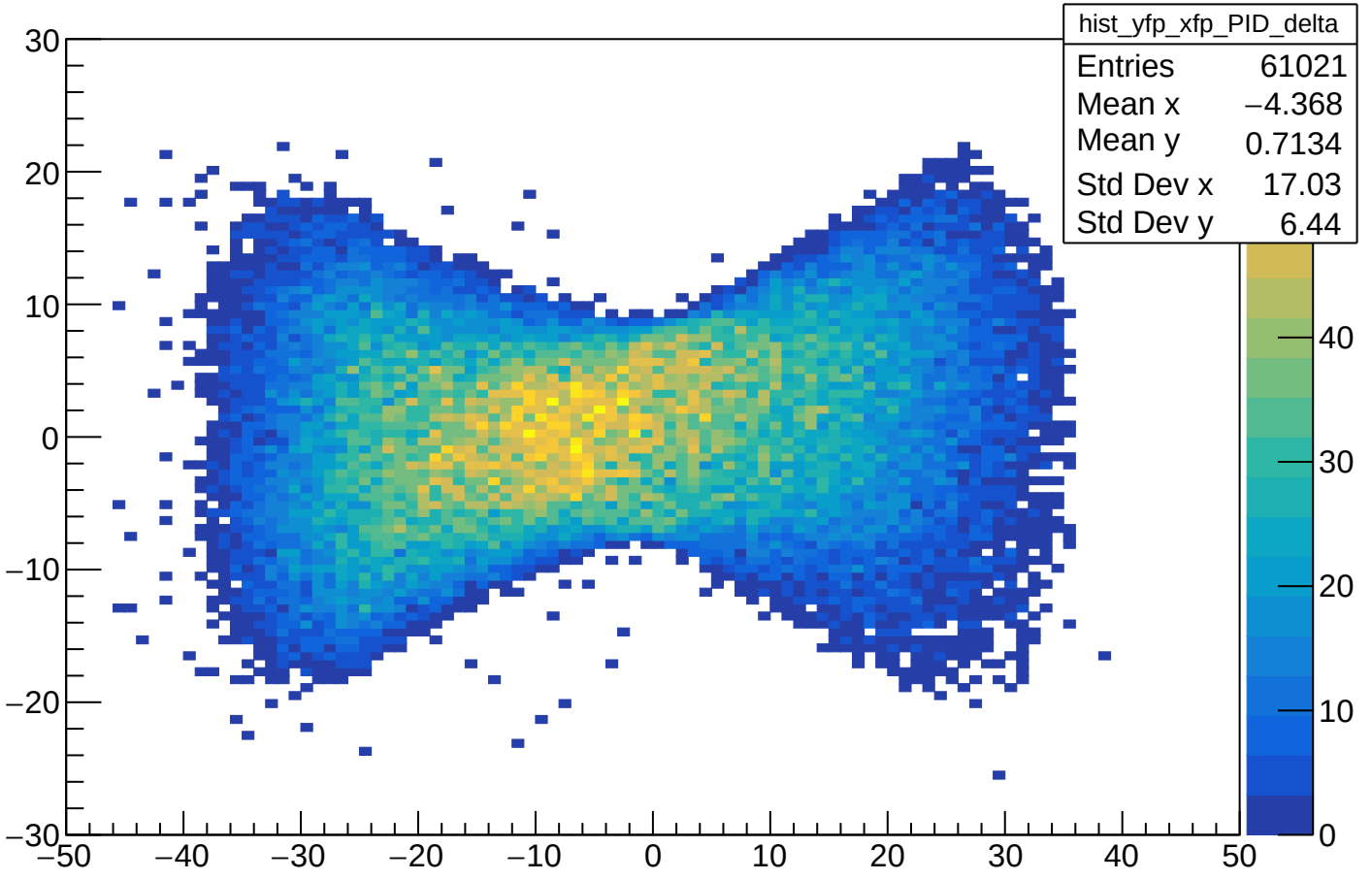

H.gtr.beta vs delta
hist_gtr_beta_delta
Entries 353604
Mean x −3.389
Mean y 1.007
Std Dev x 6.262
Std Dev y 0.04288
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
1500
1000
500
0

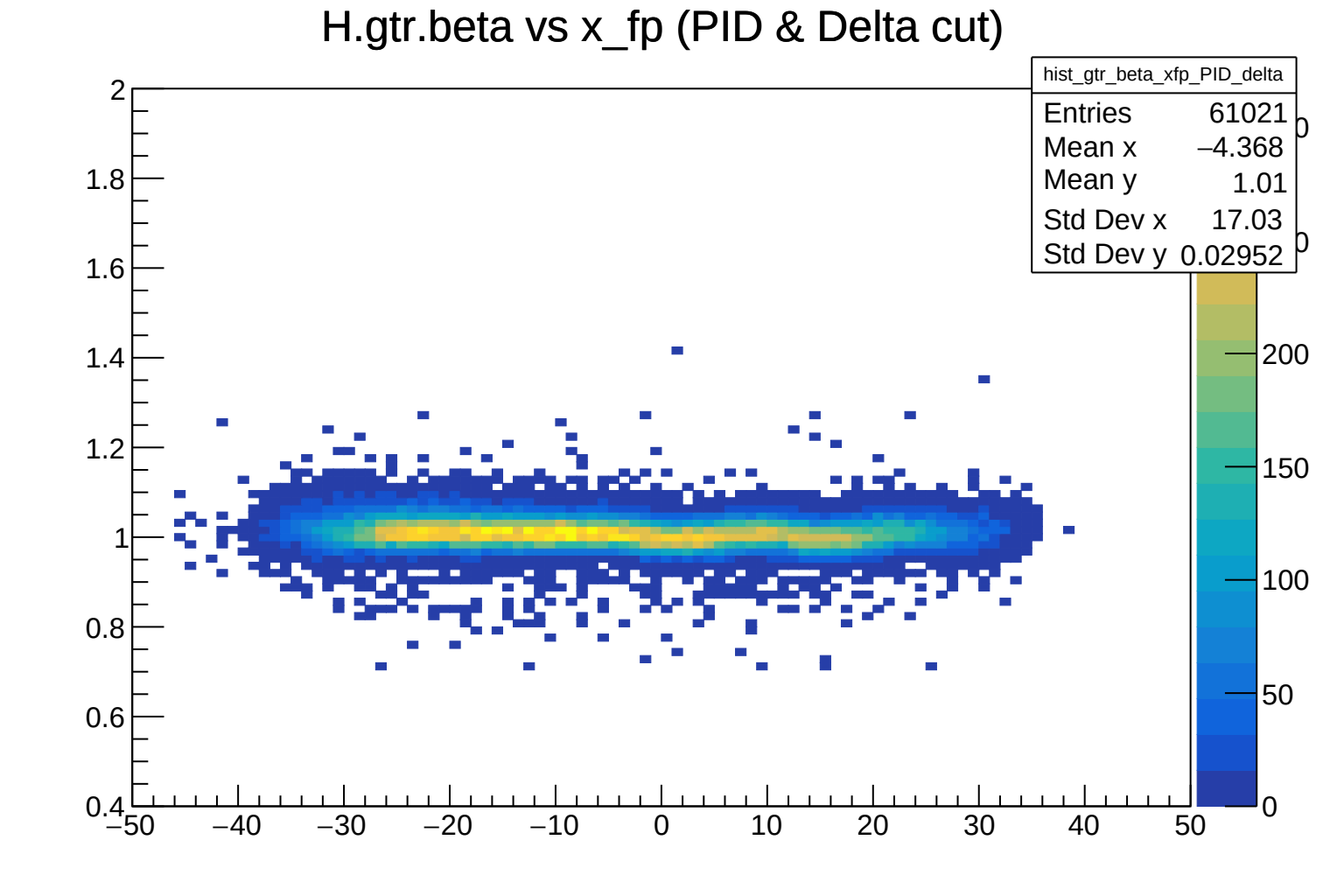

focal plane (PID cut)
hist_yfp_xfp_PID
Entries 88512
Mean x −6.985
Mean y 0.4908
Std Dev x 24.02
Std Dev y 8.079
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
40
30
20
10
0

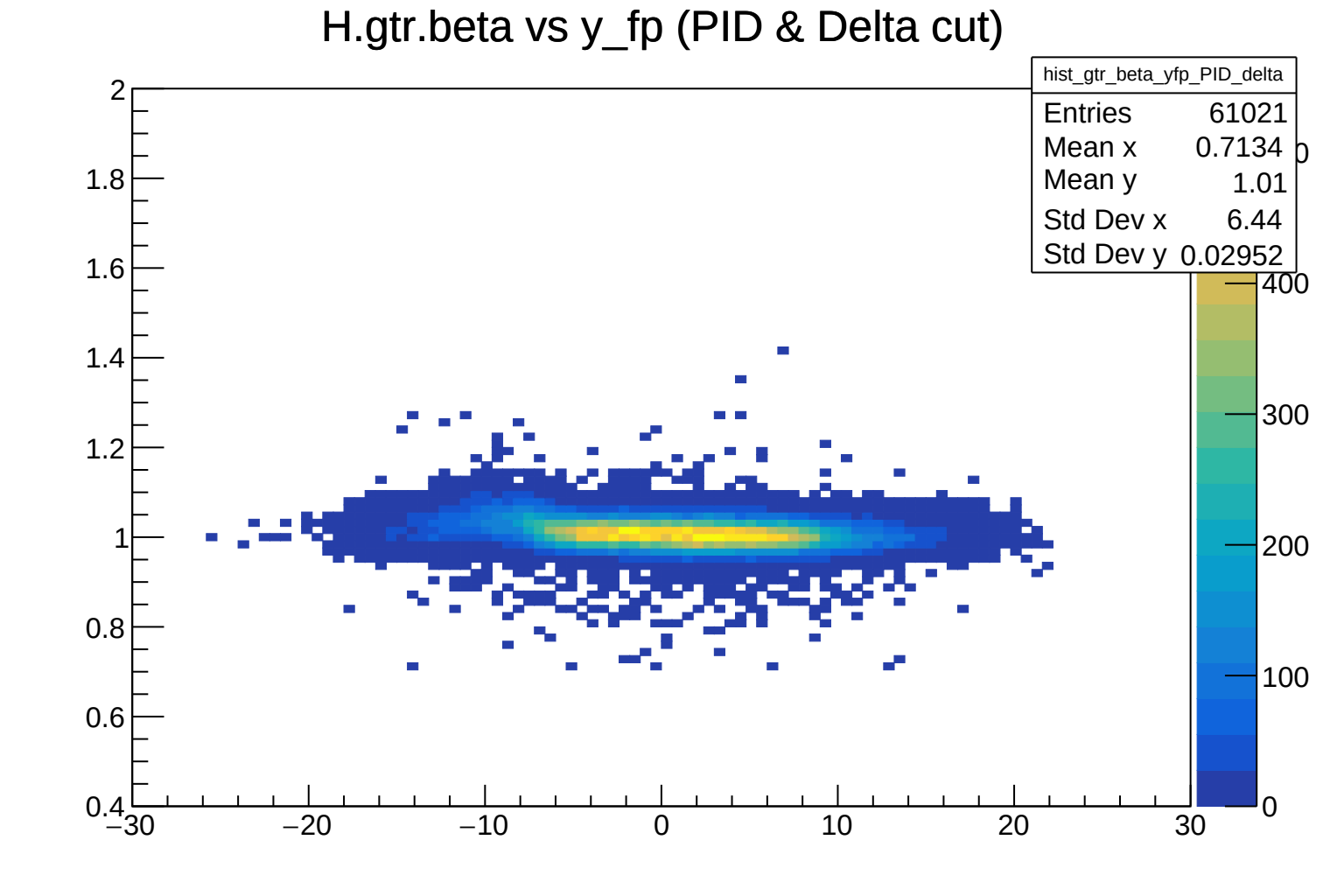

H.gtr.beta vs x_fp (PID cut)
hist_gtr_beta_xfp_PID
Entries 88512
Mean x −6.968
Mean y 1.012
Std Dev x 24.01
Std Dev y 0.03226
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−50
−40
−30
−20
−10
0
10
20
30
40
50
200
150
100
50
0

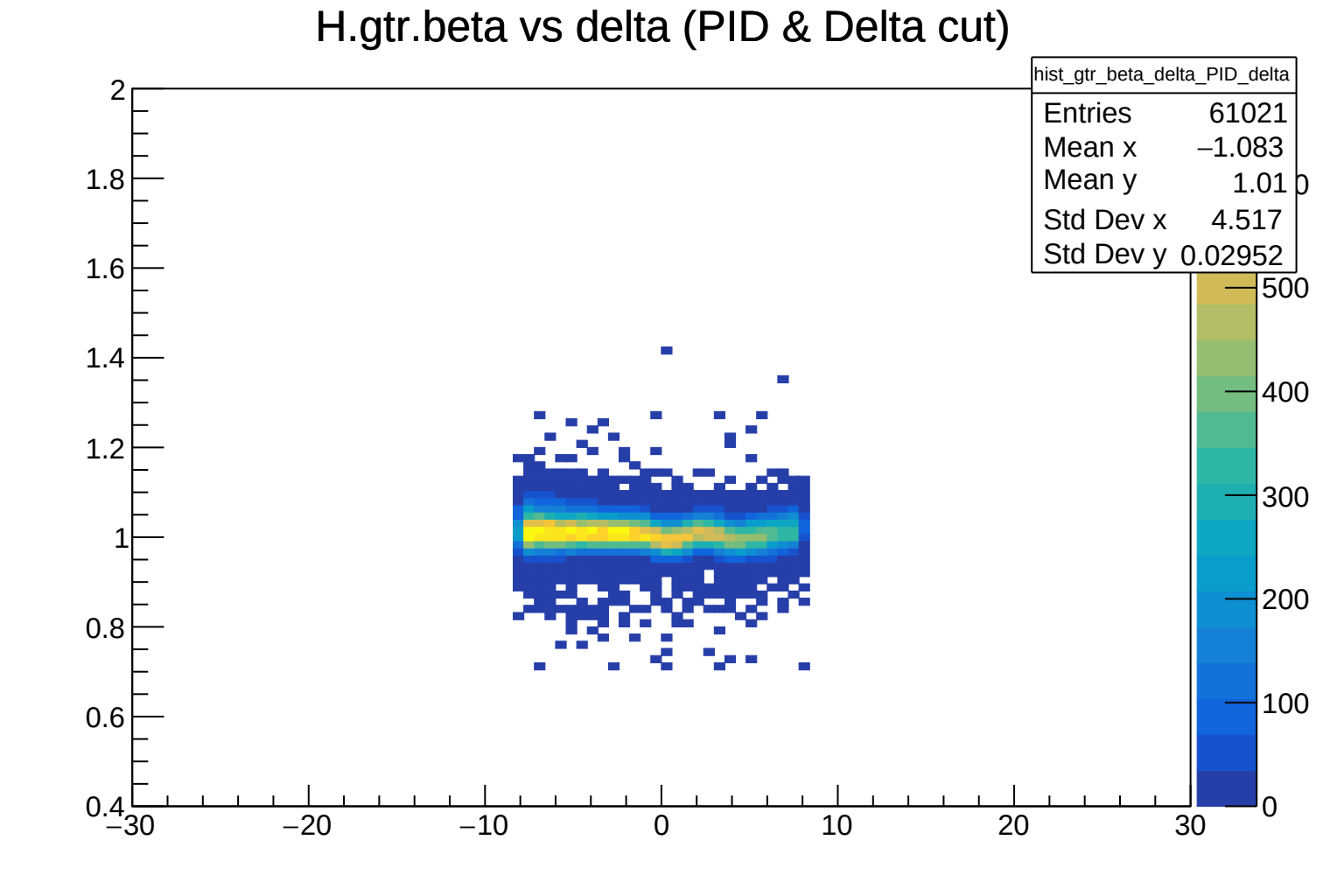

H.gtr.beta vs y_fp (PID cut)
hist_gtr_beta_yfp_PID
Entries 88512
Mean x 0.4909
Mean y 1.012
Std Dev x 8.078
Std Dev y 0.03226
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
400
300
200
100
0


H.gtr.beta vs delta (PID cut)
hist_gtr_beta_delta_PID
Entries 88512
Mean x −1.586
Mean y 1.012
Std Dev x 6.571
Std Dev y 0.0322
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 61021
Mean x −4.368
Mean y 0.7134
Std Dev x 17.03
Std Dev y 6.44
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 61021
Mean x –4.368
Mean y 1.01
Std Dev x 17.03
Std Dev y 0.02952
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 61021
Mean x 0.7134
Mean y 1.01
Std Dev x 6.44
Std Dev y 0.02952
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 & Delta cut)
hist_gtr_beta_delta_PID_delta
Entries 61021
Mean x −1.083
Mean y 1.01
Std Dev x 4.517
Std Dev y 0.02952
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