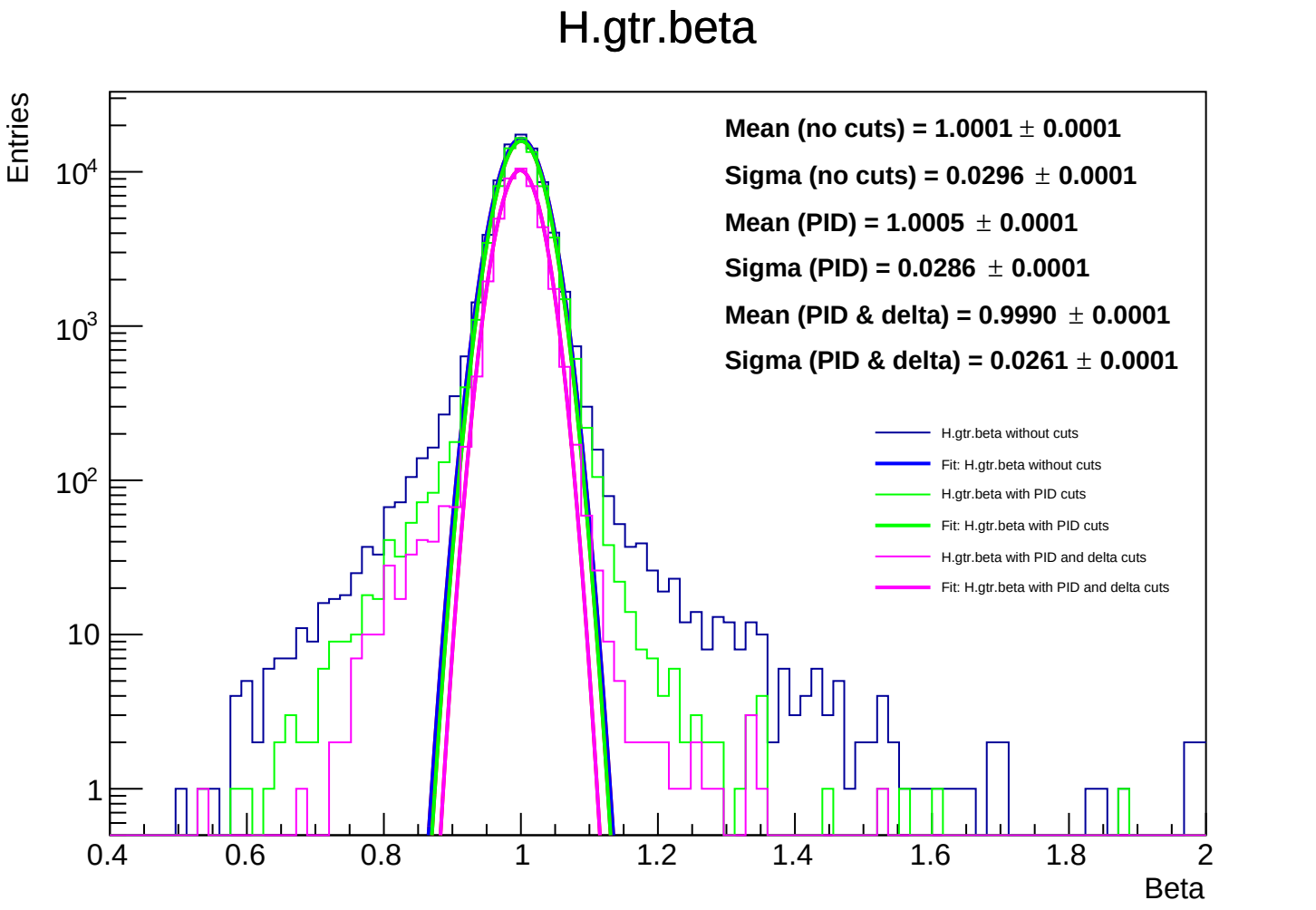
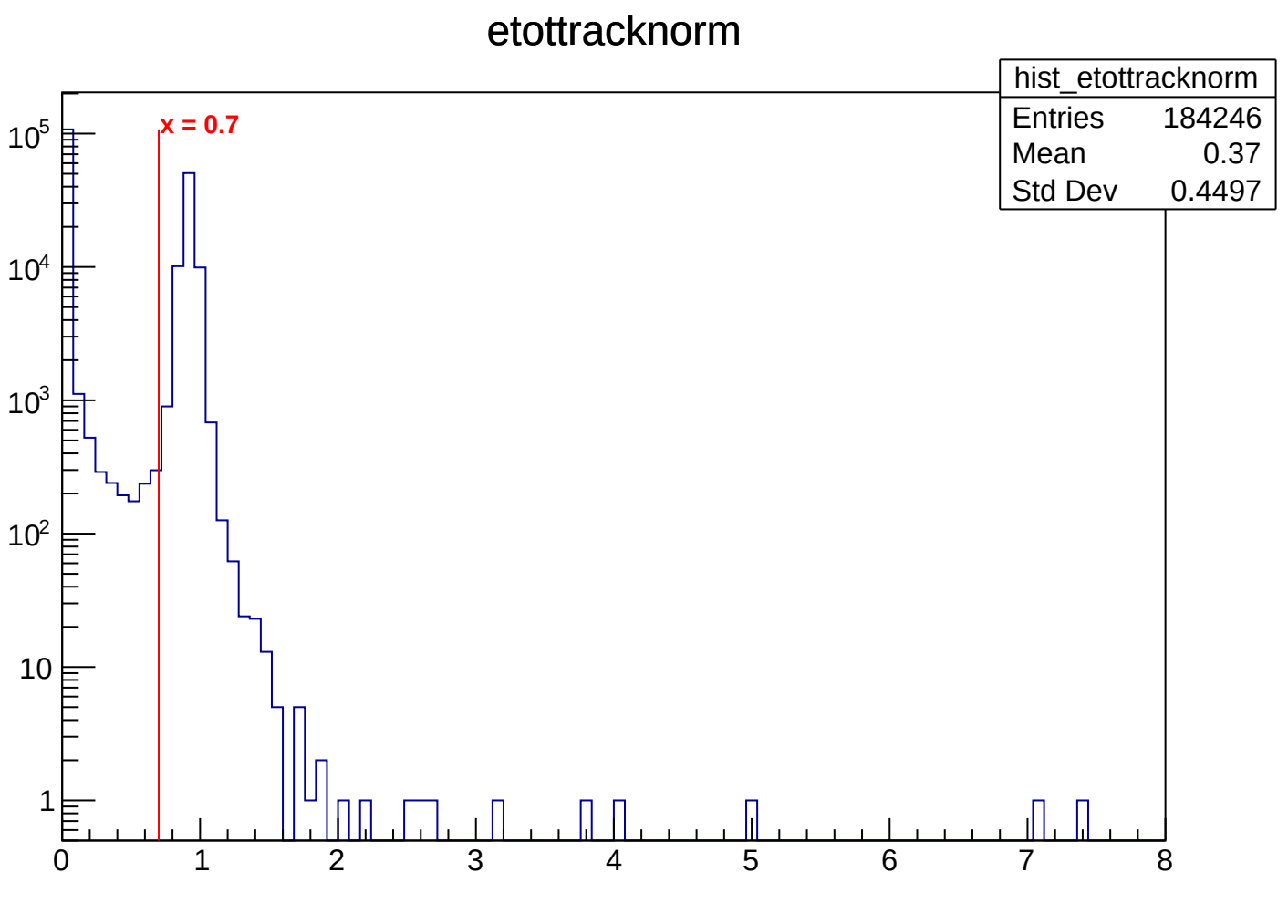
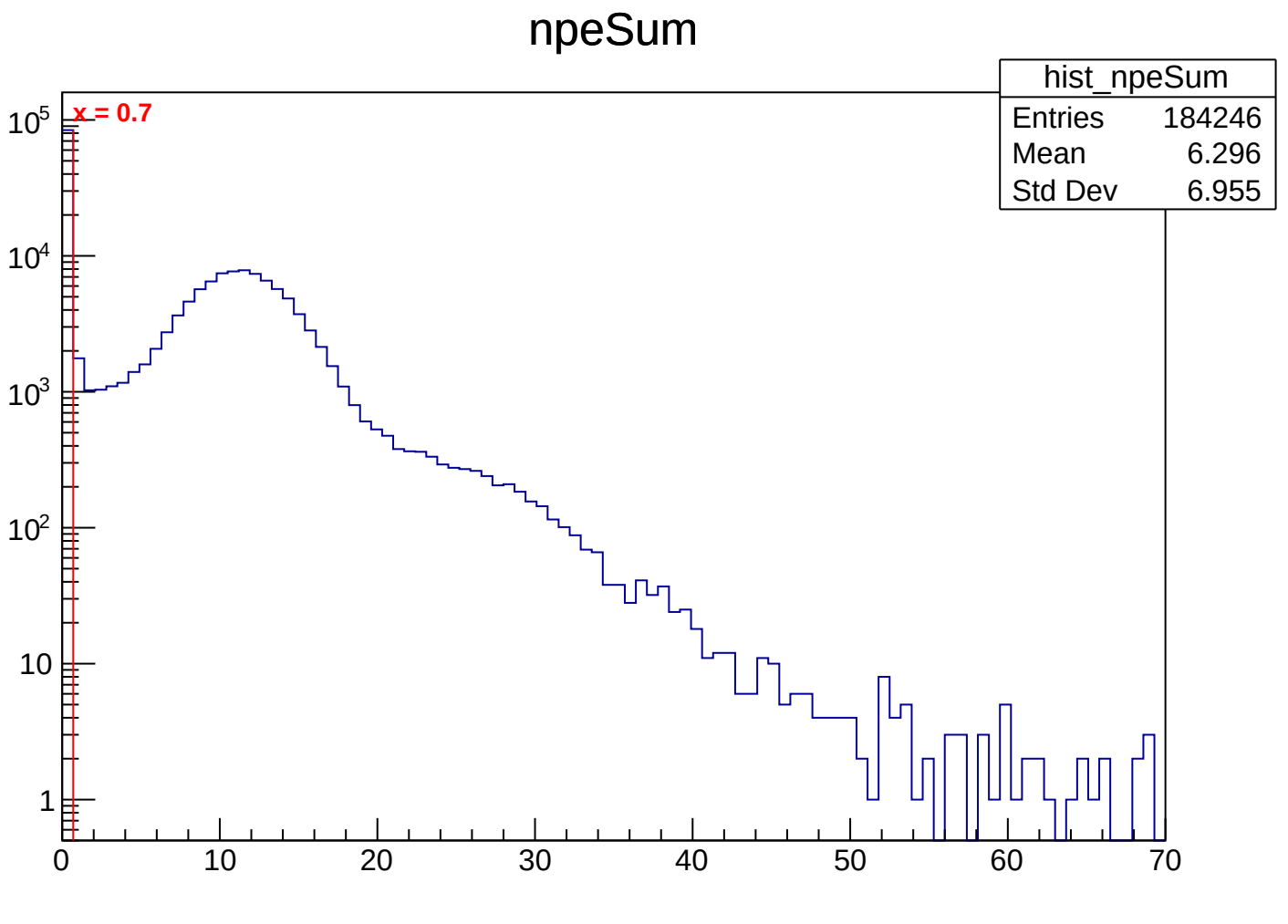
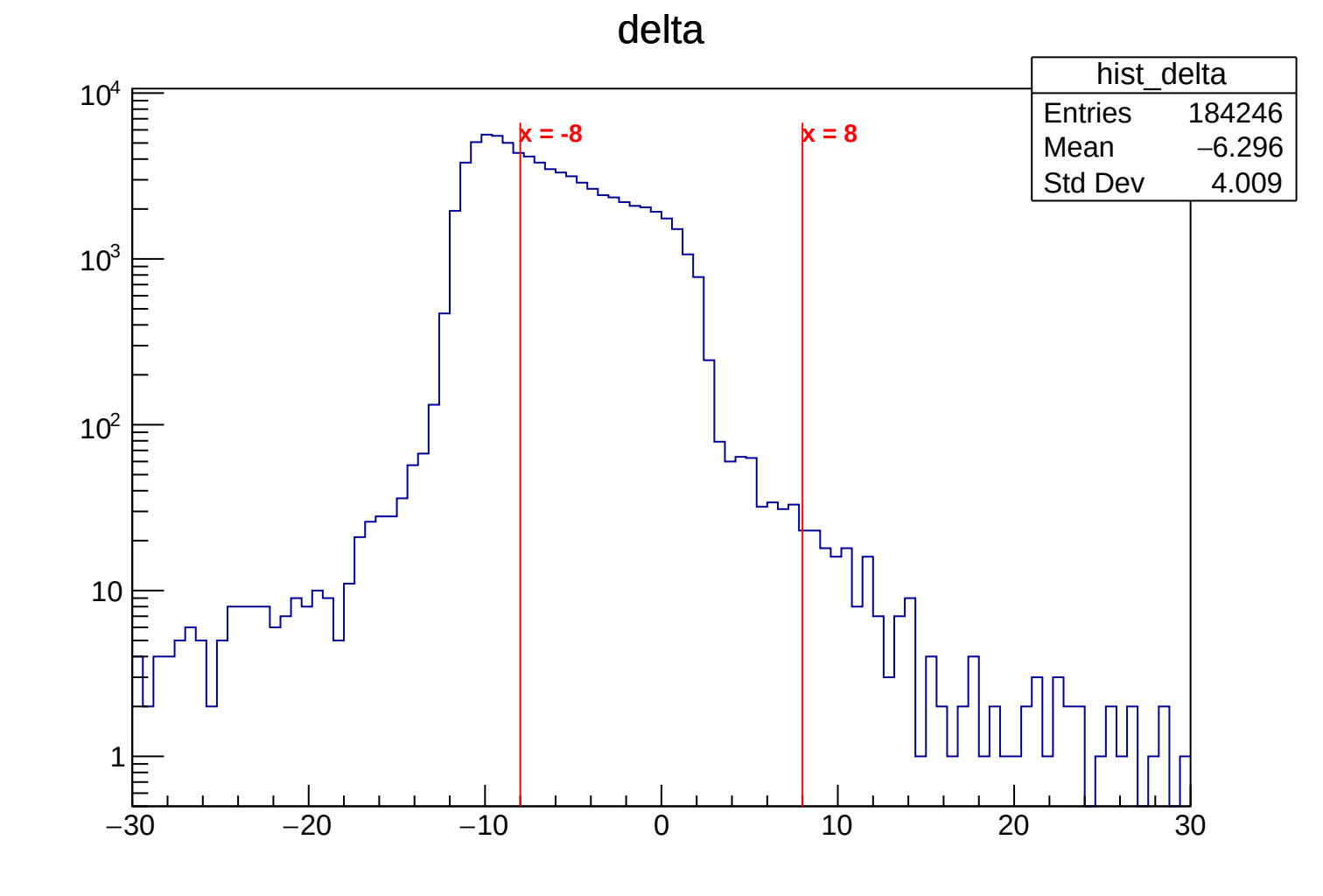
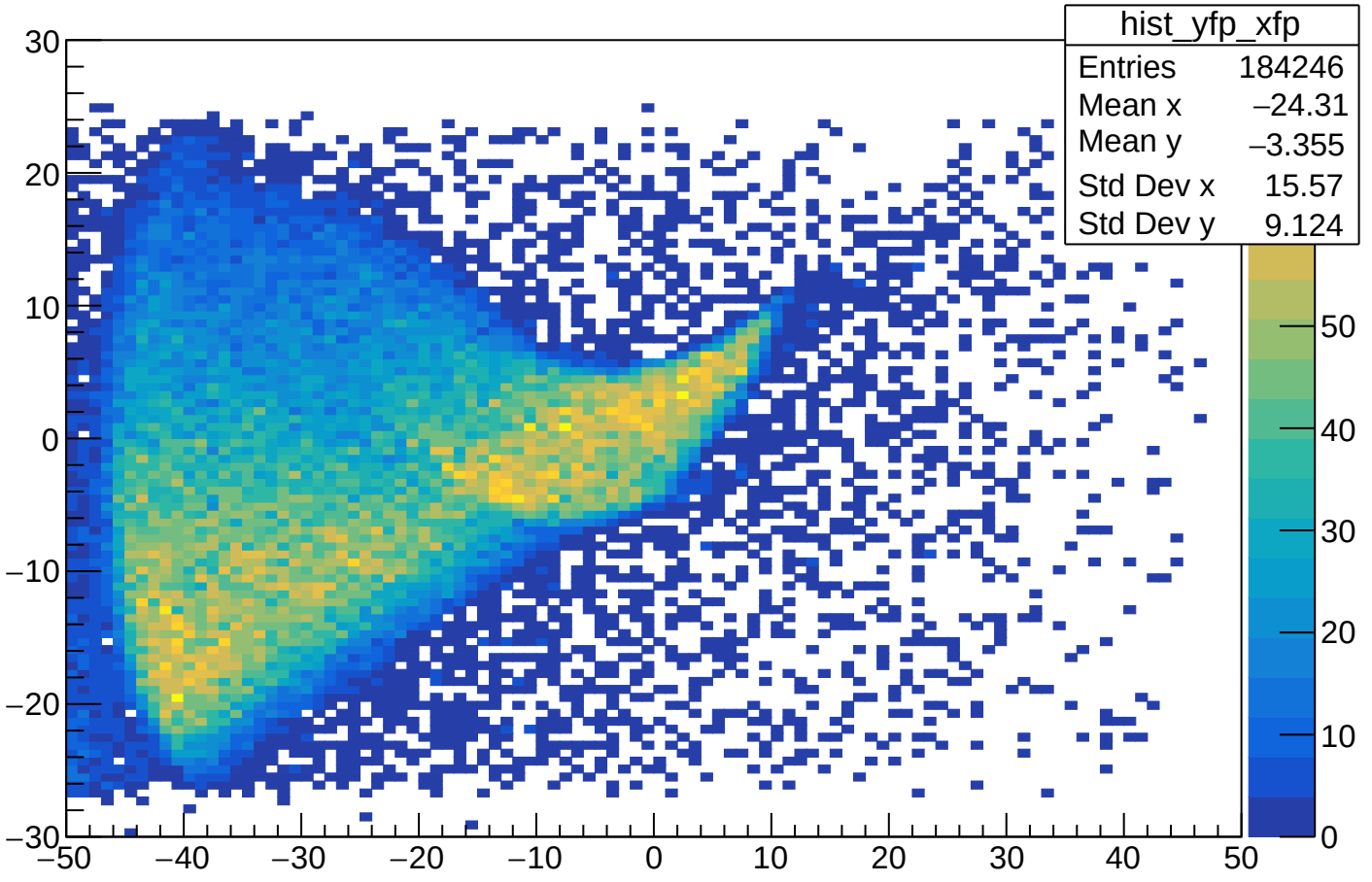
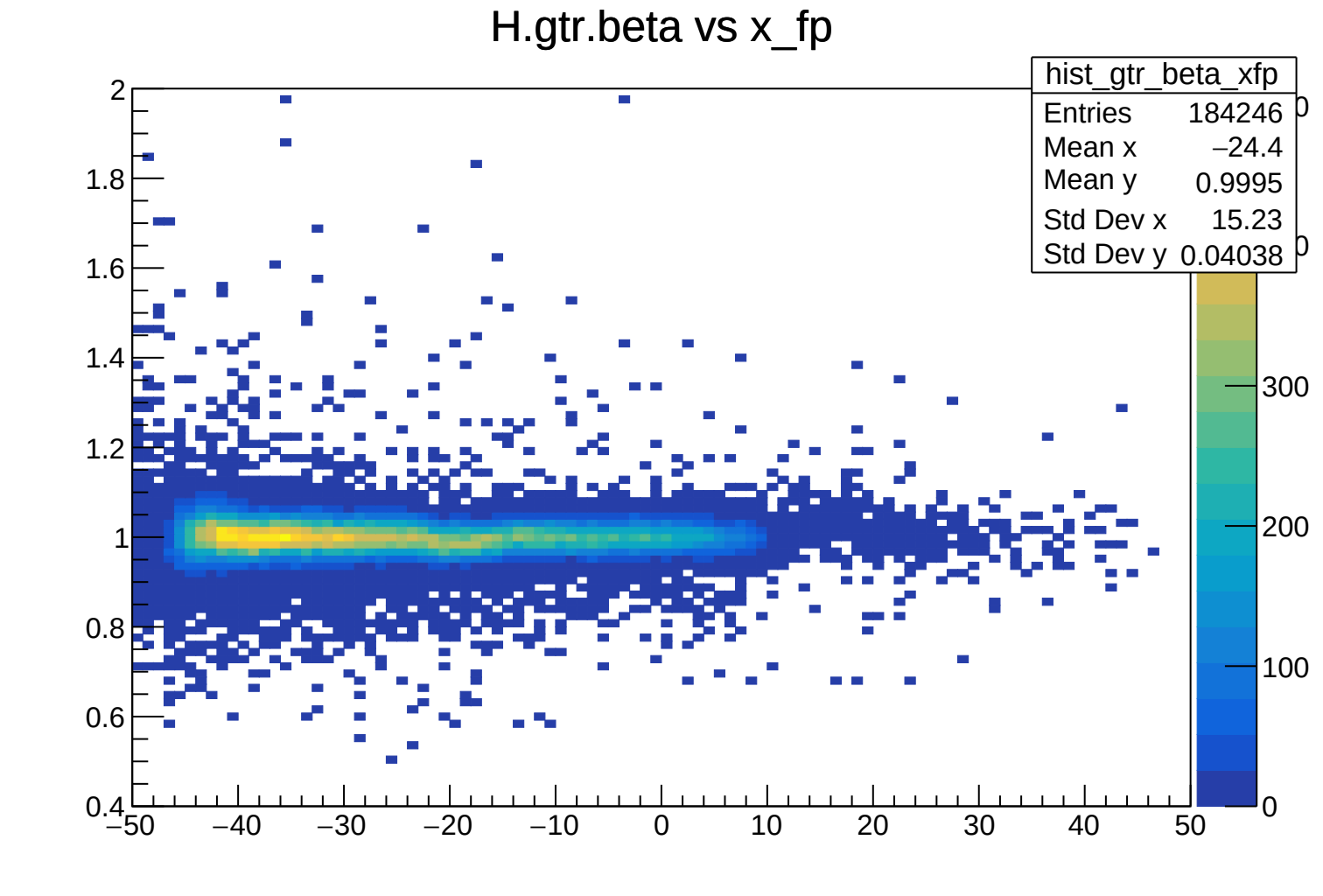

H.gtr.beta
Entries
Beta
Mean (no cuts) = 1.0001 ± 0.0001
Sigma (no cuts) = 0.0296 ± 0.0001
Mean (PID) = 1.0005 ± 0.0001
Sigma (PID) = 0.0286 ± 0.0001
Mean (PID & delta) = 0.9990 ± 0.0001
Sigma (PID & delta) = 0.0261 ± 0.0001
H.gtr.beta without cuts
Fit: H.gtr.beta without cuts
H.gtr.beta with PID cuts
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

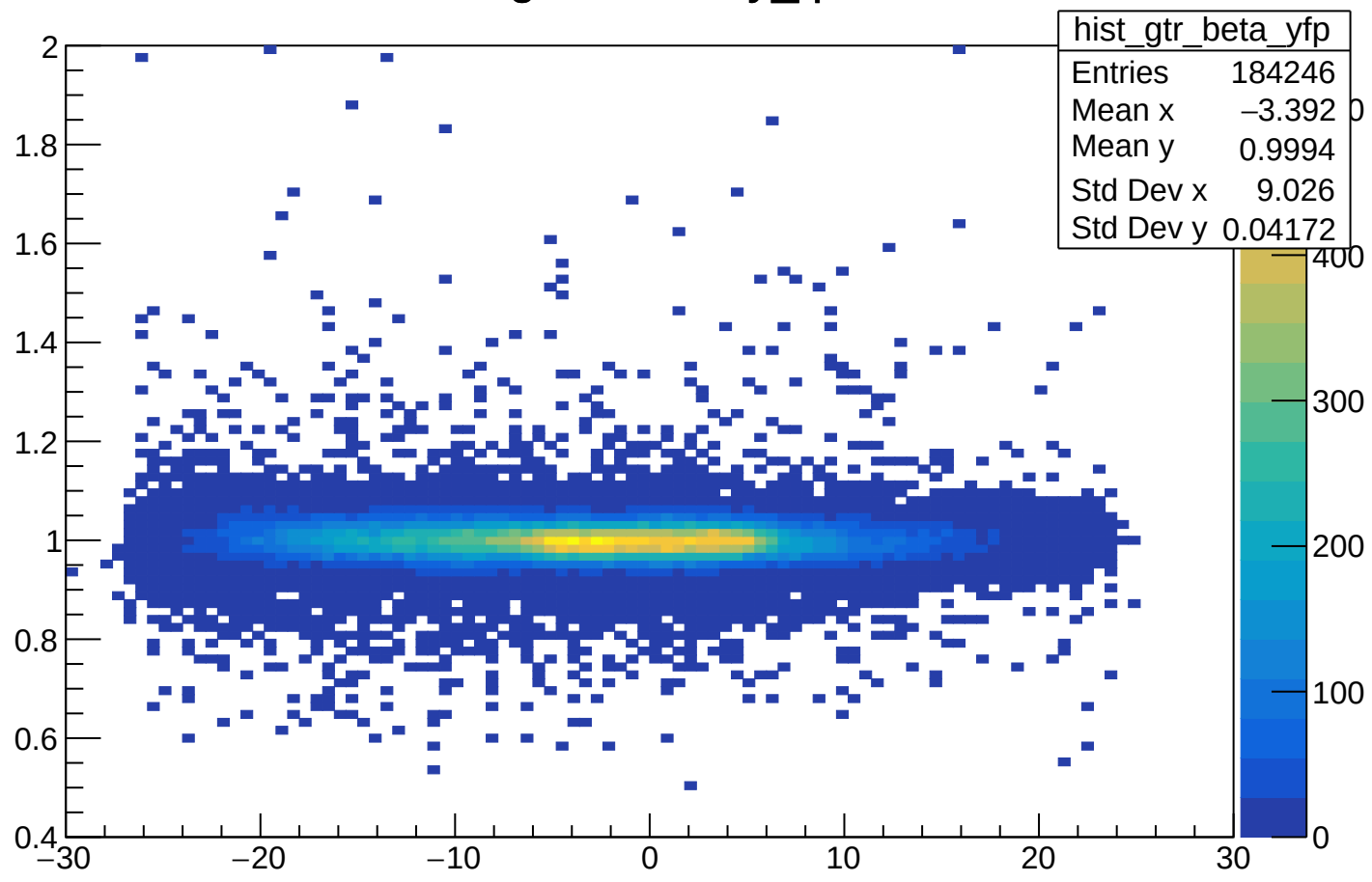

etottracknorm
hist_etottracknorm
Entries 184246
Mean 0.37
Std Dev 0.4497
x = 0.7
10^5
10^4
10^3
10^2
10
1
0
1
2
3
4
5
6
7
8

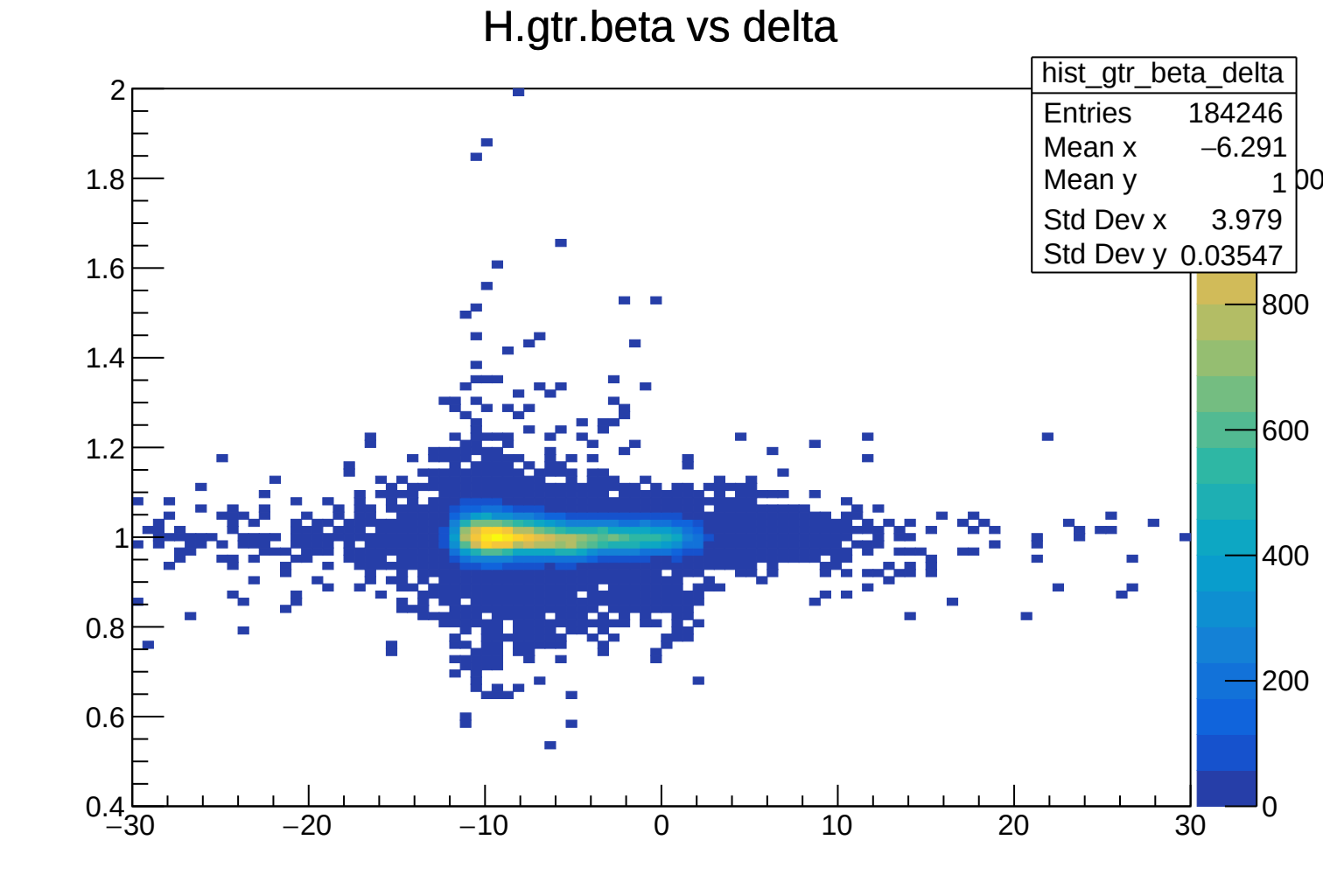

npeSum
hist_npeSum
Entries 184246
Mean 6.296
Std Dev 6.955
x = 0.7
10^5
10^4
10^3
10^2
10
1
0
10
20
30
40
50
60
70

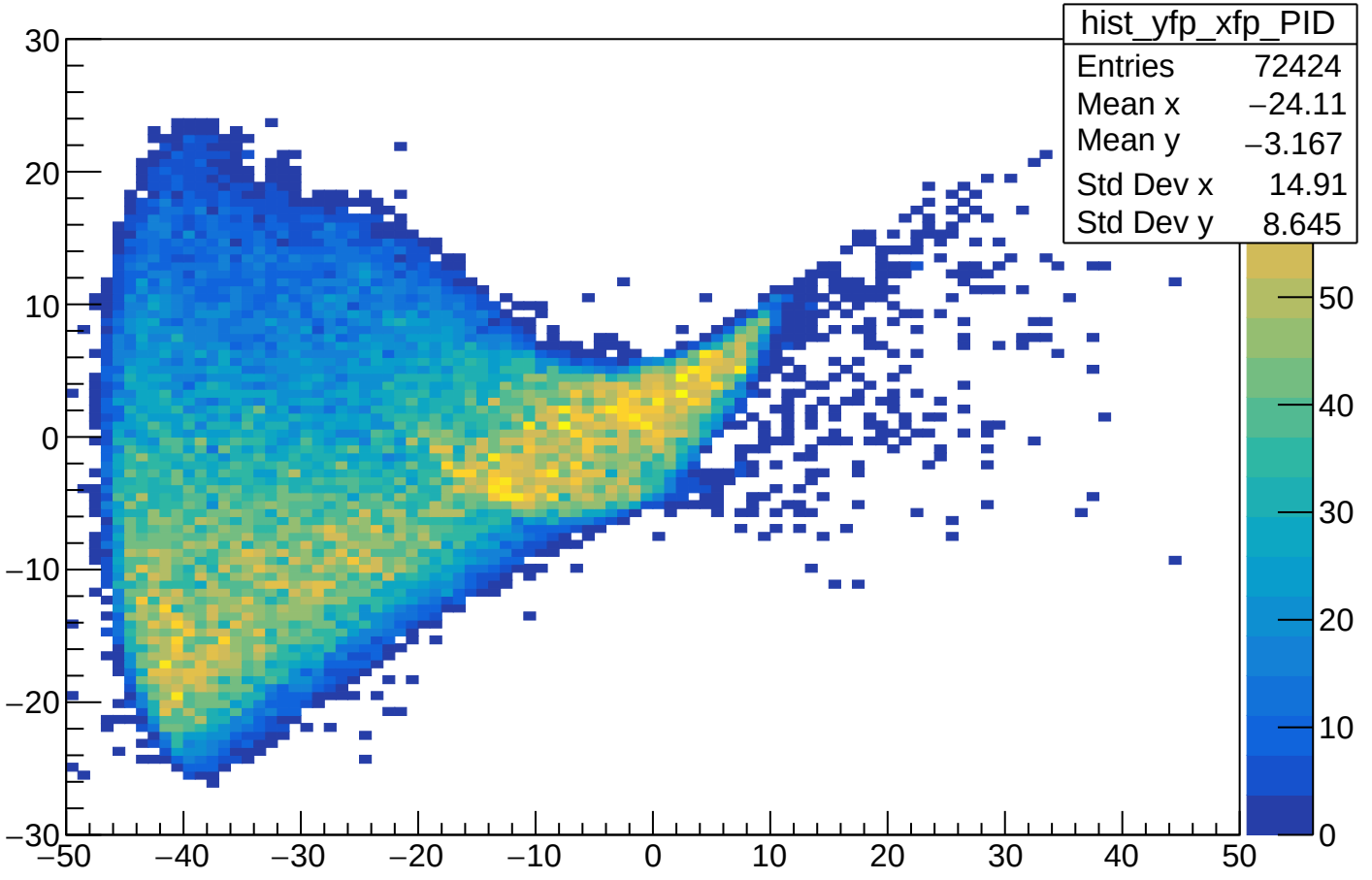

delta
hist_delta
Entries 184246
Mean −6.296
Std Dev 4.009
x = -8
x = 8
10^4
10^3
10^2
10
1
−30
−20
−10
0
10
20
30

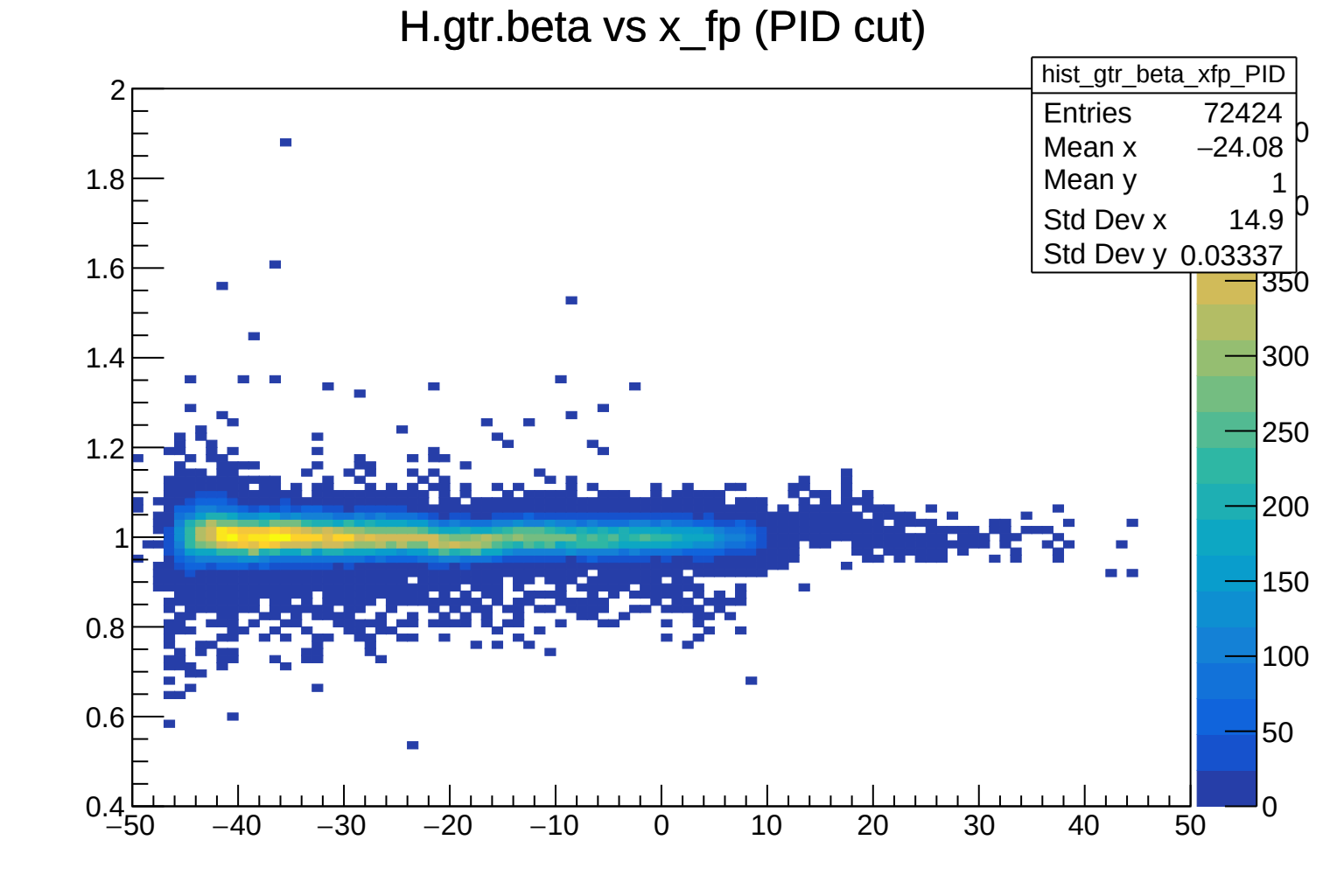

focal plane
hist_yfp_xfp
Entries 184246
Mean x −24.31
Mean y −3.355
Std Dev x 15.57
Std Dev y 9.124
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
50
40
30
20
10
0

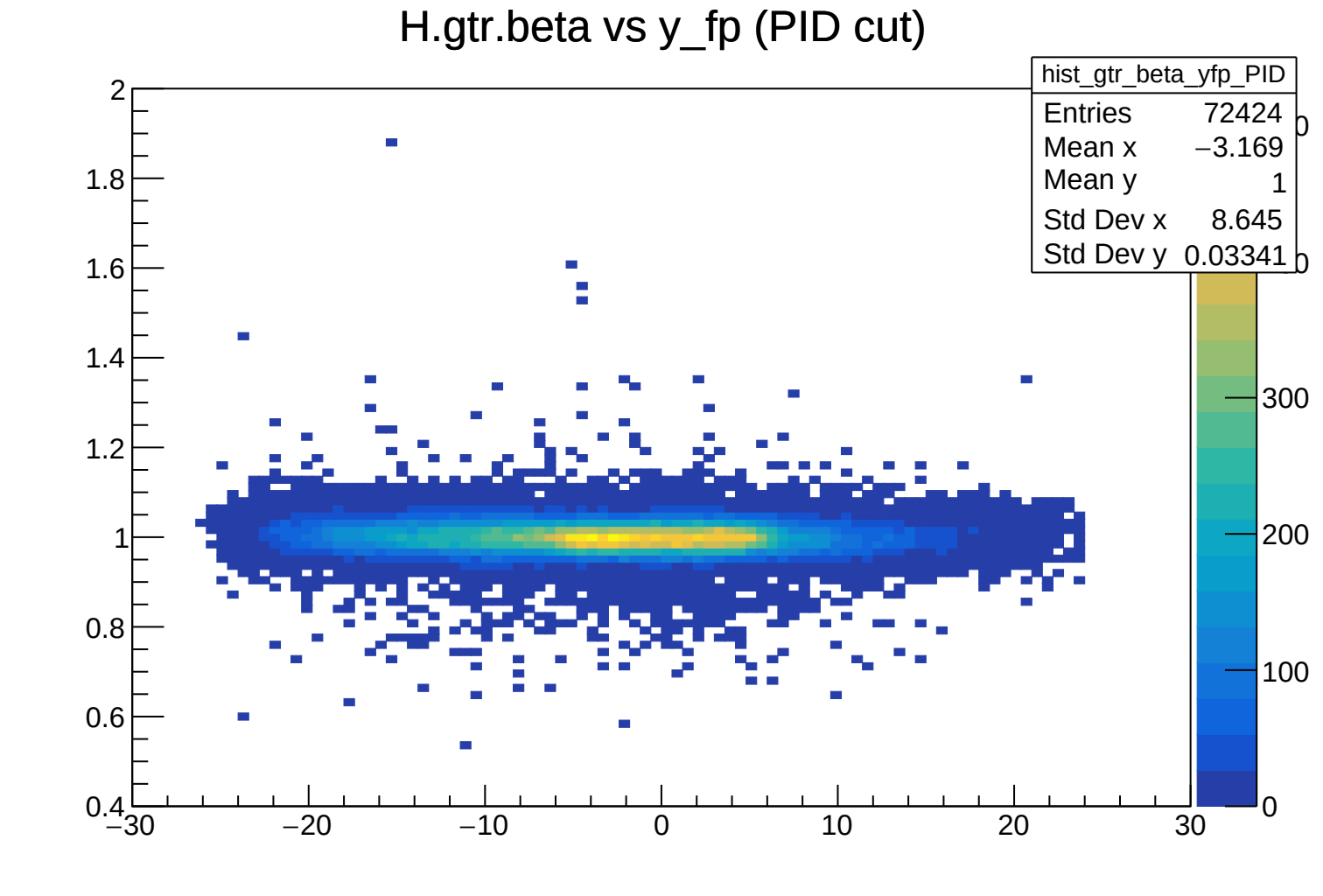

H.gtr.beta vs x_fp
hist_gtr_beta_xfp
Entries 184246
Mean x −24.4
Mean y 0.9995
Std Dev x 15.23
Std Dev y 0.04038
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−50
−40
−30
−20
−10
0
10
20
30
40
50
300
200
100
0

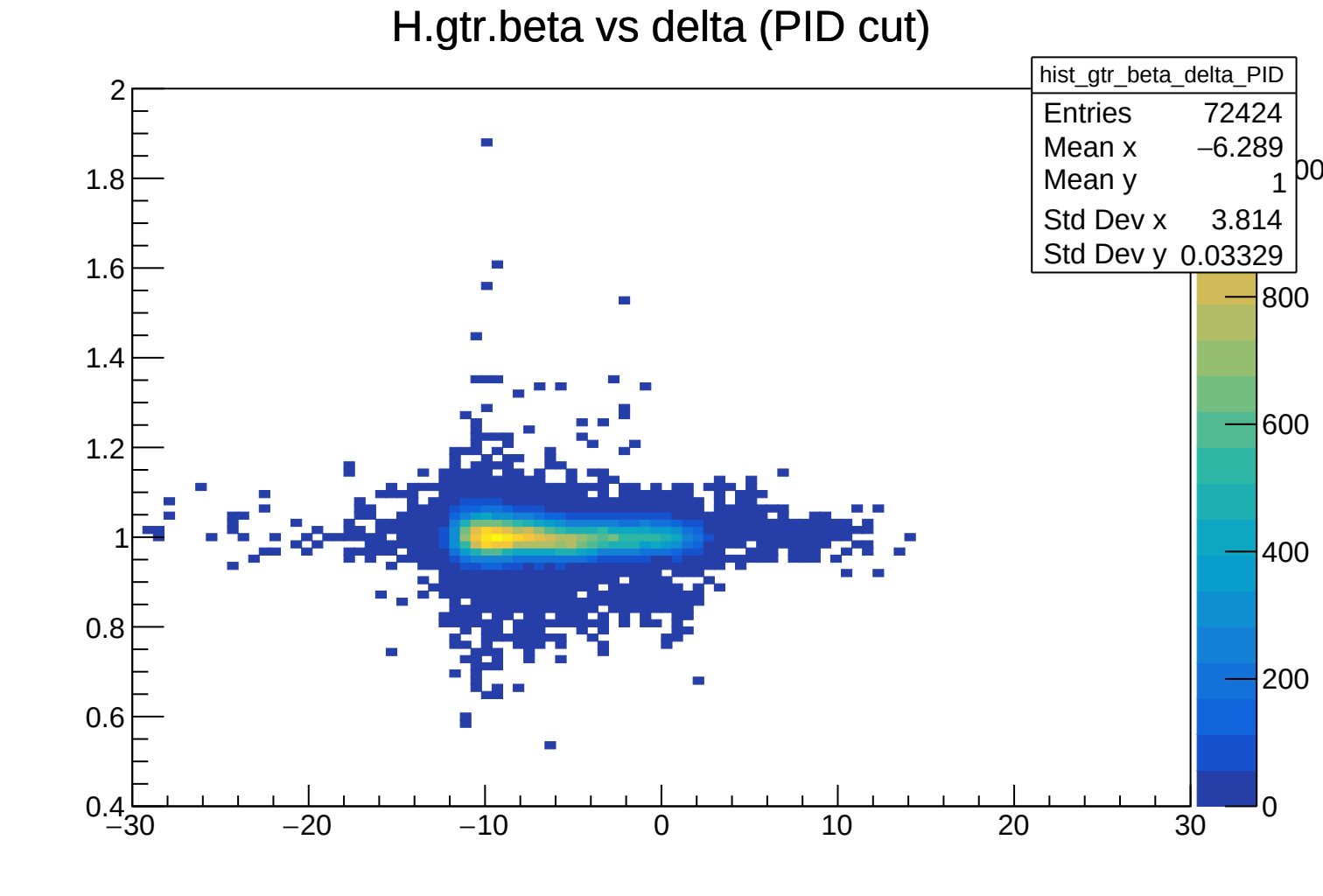

H.gtr.beta vs y_fp
hist_gtr_beta_yfp
Entries 184246
Mean x −3.392
Mean y 0.9994
Std Dev x 9.026
Std Dev y 0.04172
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
400
300
200
100
0

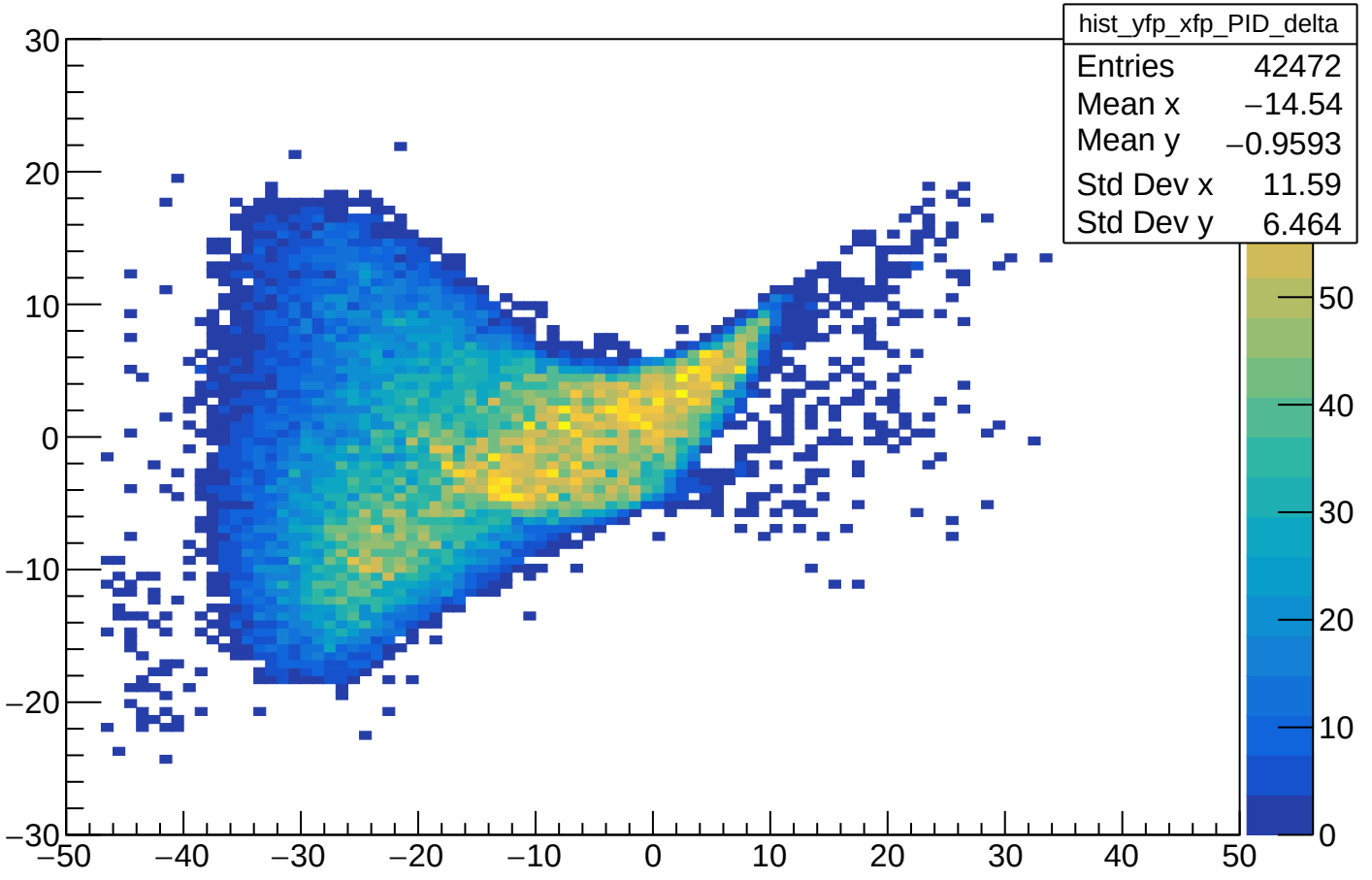

H.gtr.beta vs delta
hist_gtr_beta_delta
Entries 184246
Mean x −6.291
Mean y 1
Std Dev x 3.979
Std Dev y 0.03547
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
800
600
400
200
0

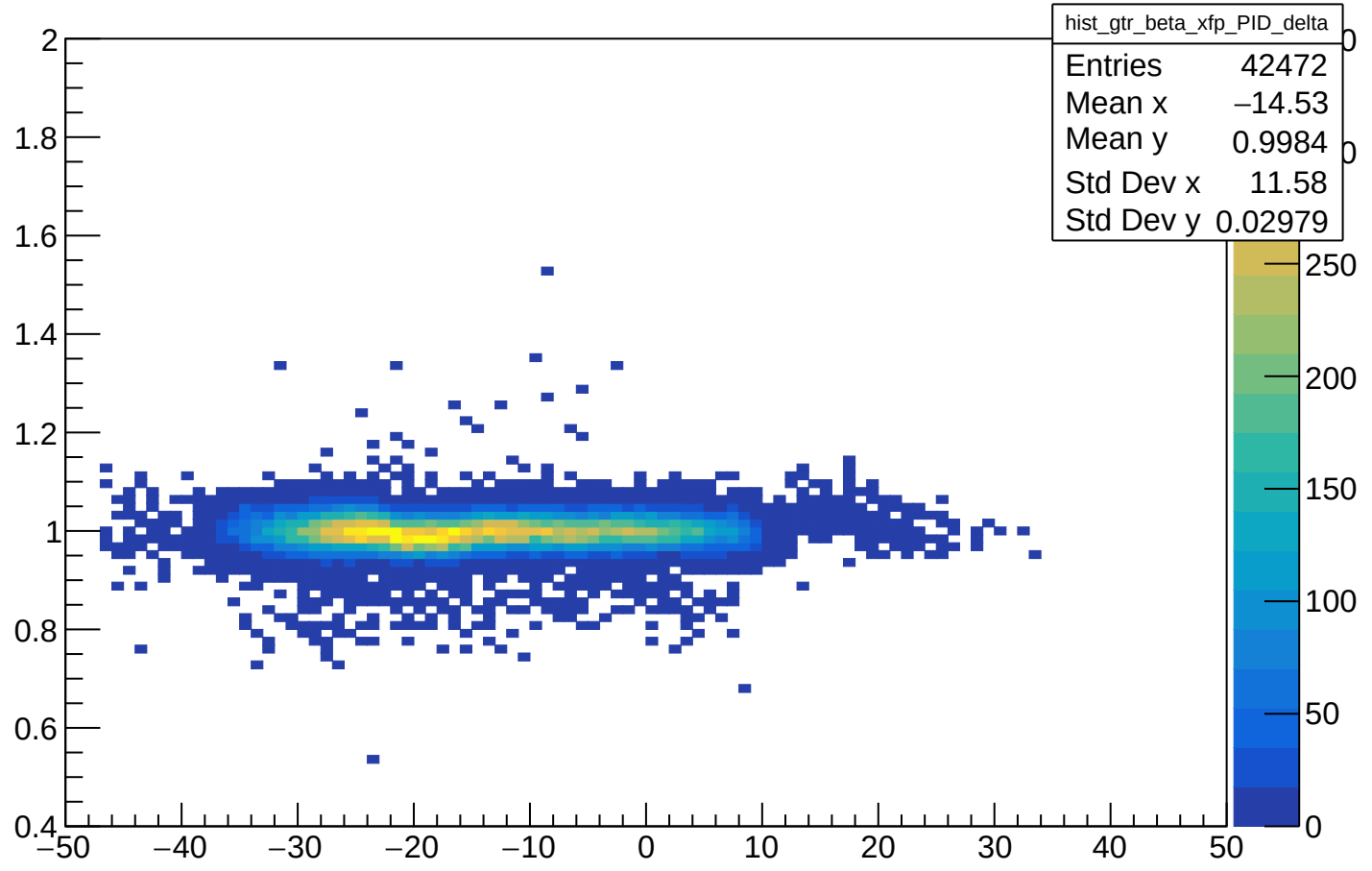

focal plane (PID cut)
hist_yfp_xfp_PID
Entries 72424
Mean x −24.11
Mean y −3.167
Std Dev x 14.91
Std Dev y 8.645
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
50
40
30
20
10
0

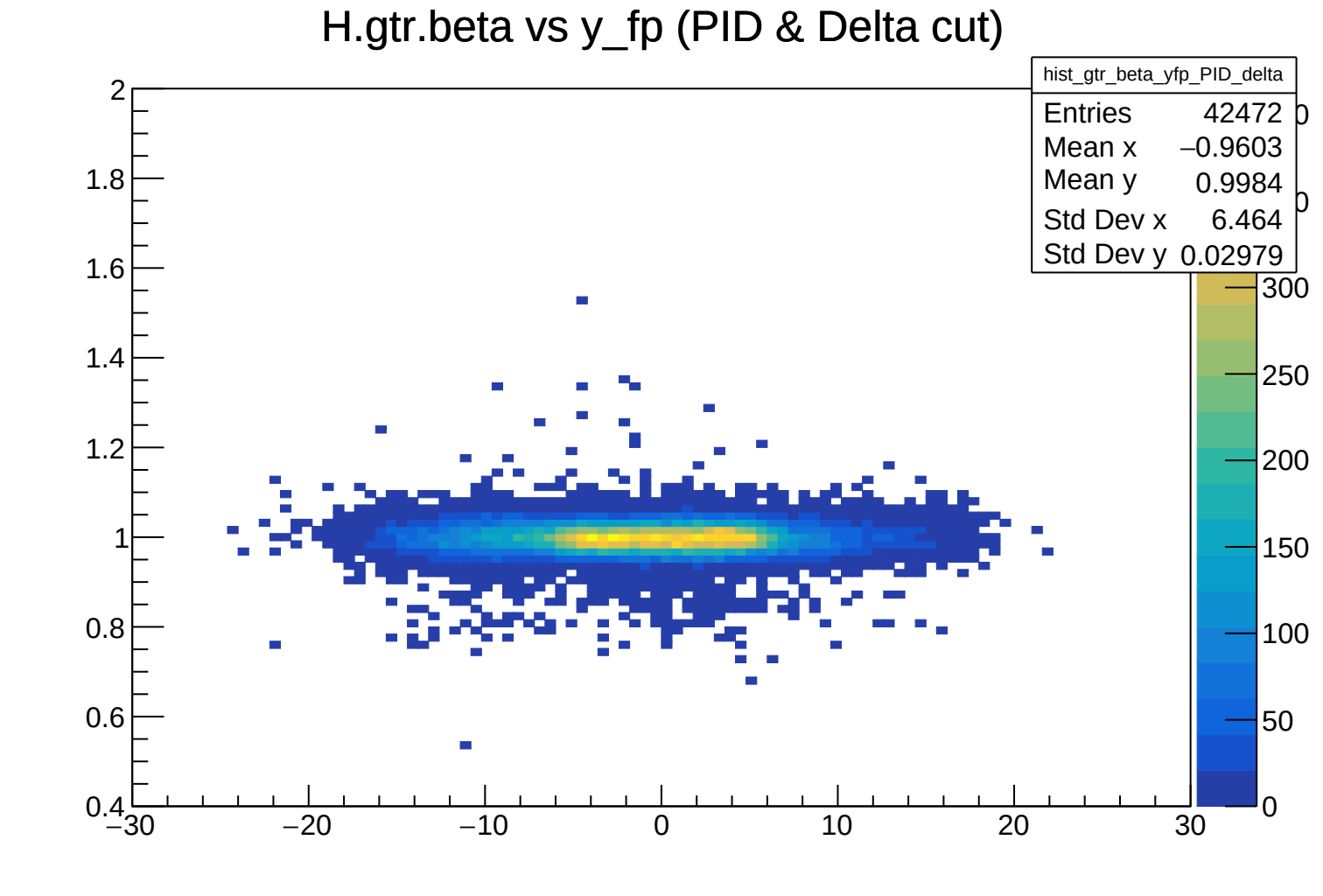

H.gtr.beta vs x_fp (PID cut)
hist_gtr_beta_xfp_PID
Entries 72424
Mean x −24.08
Mean y 1
Std Dev x 14.9
Std Dev y 0.03337
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−50
−40
−30
−20
−10
0
10
20
30
40
50
350
300
250
200
150
100
50
0

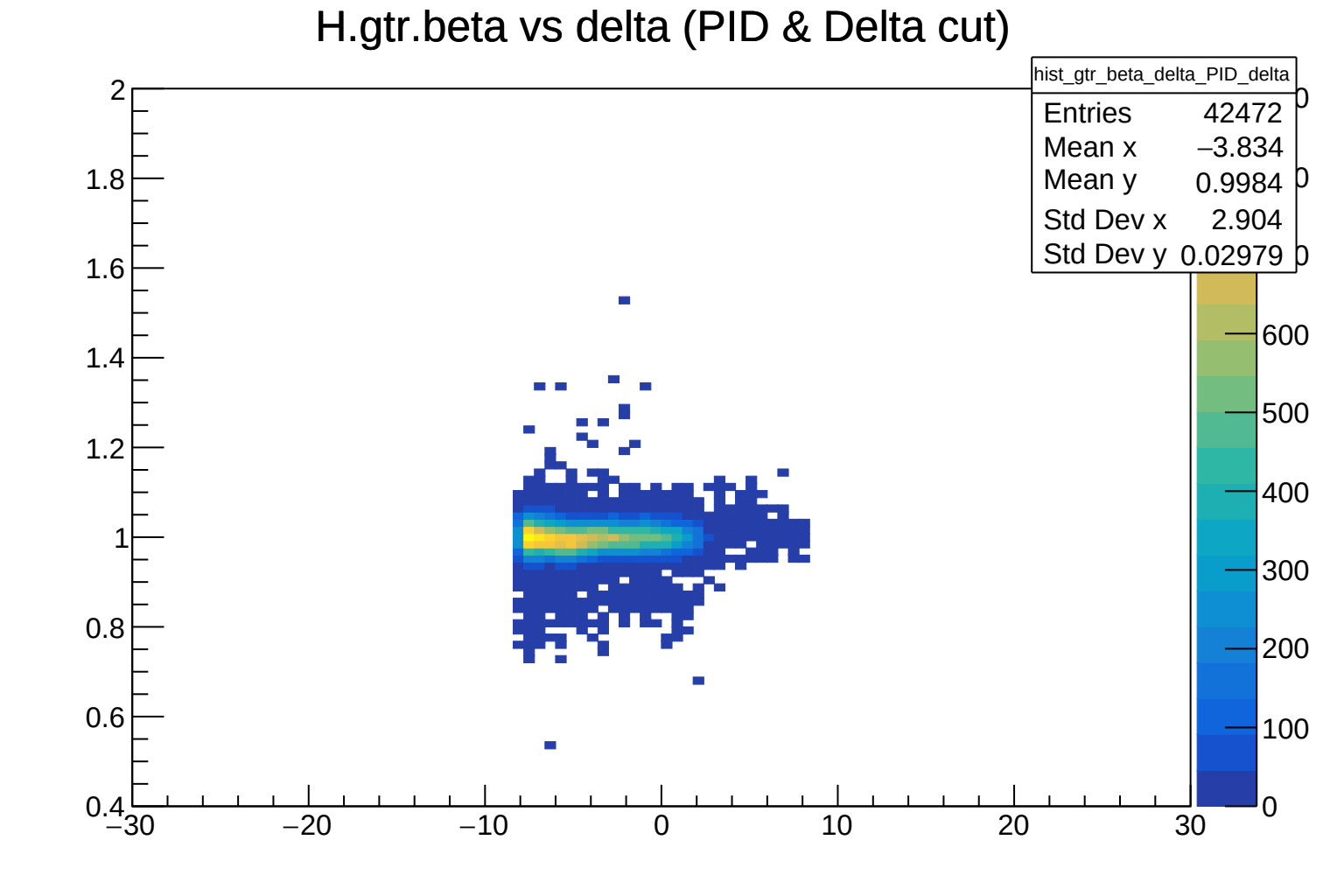

H.gtr.beta vs y_fp (PID cut)
hist_gtr_beta_yfp_PID
Entries 72424
Mean x −3.169
Mean y 1
Std Dev x 8.645
Std Dev y 0.03341
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
300
200
100
0


H.gtr.beta vs delta (PID cut)
hist_gtr_beta_delta_PID
Entries 72424
Mean x −6.289
Mean y 1
Std Dev x 3.814
Std Dev y 0.03329
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


focal plane (PID & Delta cut)
hist_yfp_xfp_PID_delta
Entries 42472
Mean x −14.54
Mean y −0.9593
Std Dev x 11.59
Std Dev y 6.464
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
50
40
30
20
10
0


H.gtr.beta vs x_fp (PID & Delta cut)
hist_gtr_beta_xfp_PID_delta
Entries 42472
Mean x −14.53
Mean y 0.9984
Std Dev x 11.58
Std Dev y 0.02979
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
250
200
150
100
50
0


H.gtr.beta vs y_fp (PID & Delta cut)
hist_gtr_beta_yfp_PID_delta
Entries 42472
Mean x −0.9603
Mean y 0.9984
Std Dev x 6.464
Std Dev y 0.02979
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
300
250
200
150
100
50
0


H.gtr.beta vs delta (PID & Delta cut)
hist_gtr_beta_delta_PID_delta
Entries 42472
Mean x −3.834
Mean y 0.9984
Std Dev x 2.904
Std Dev y 0.02979
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
600
500
400
300
200
100
0