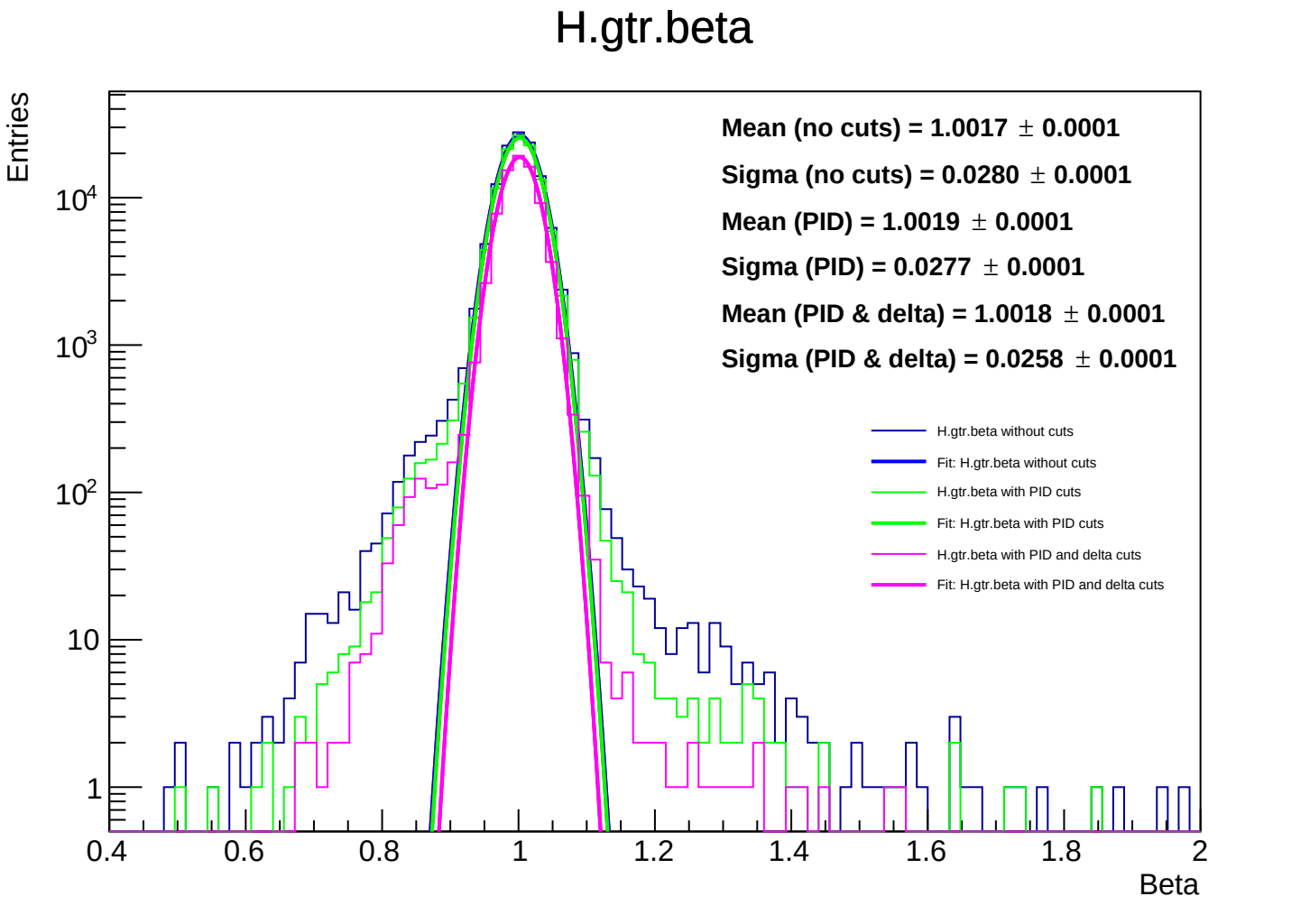
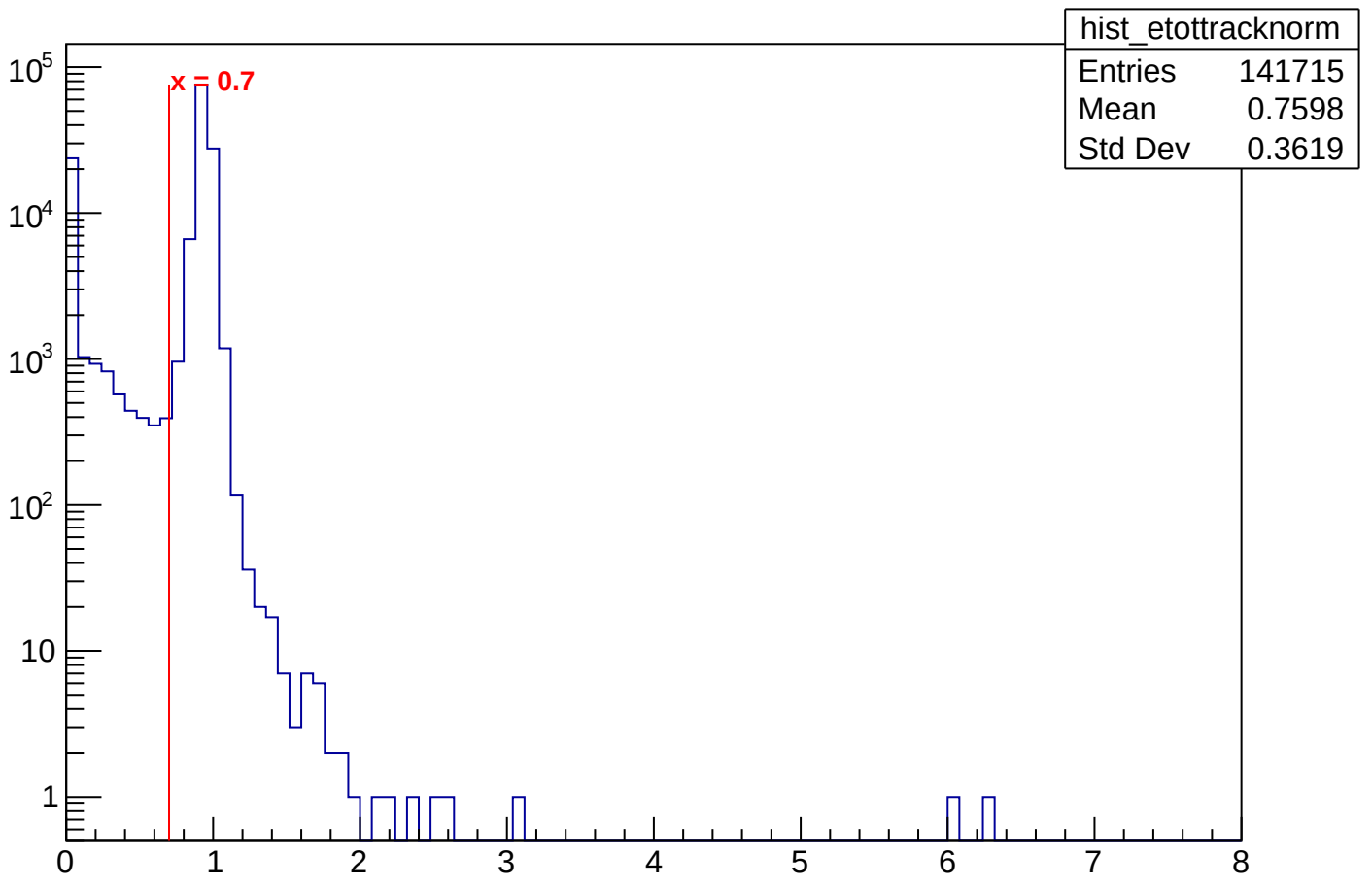
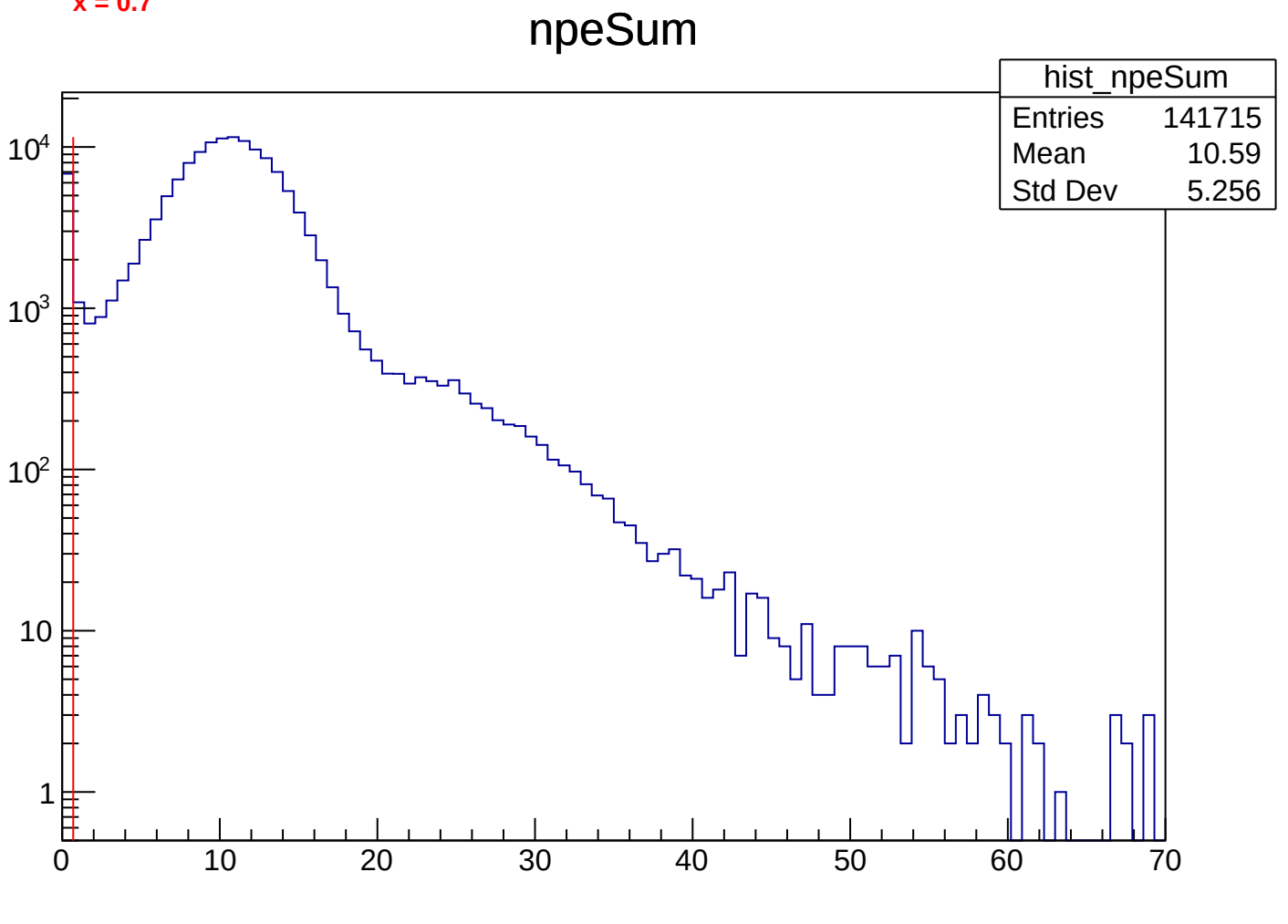
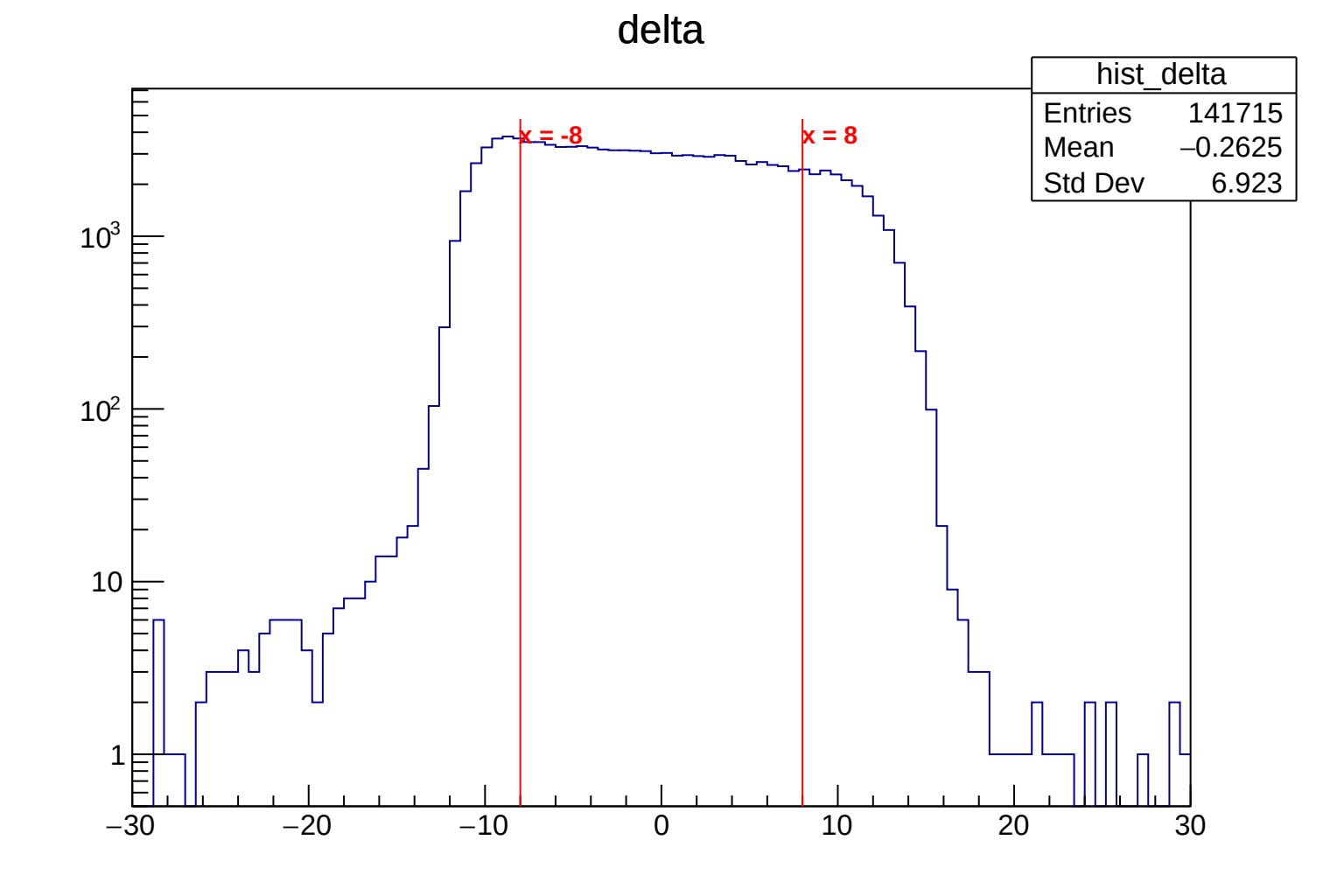
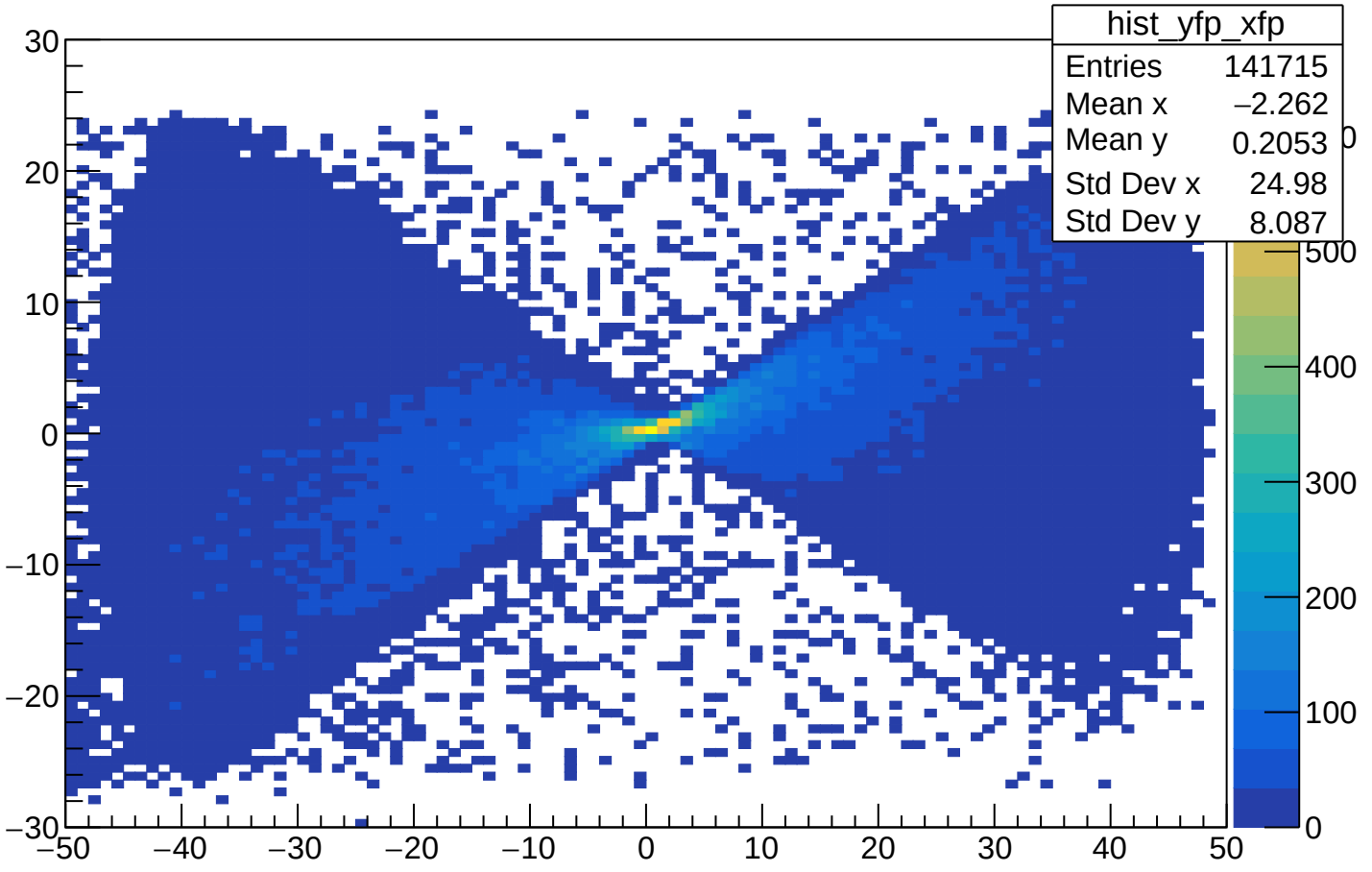
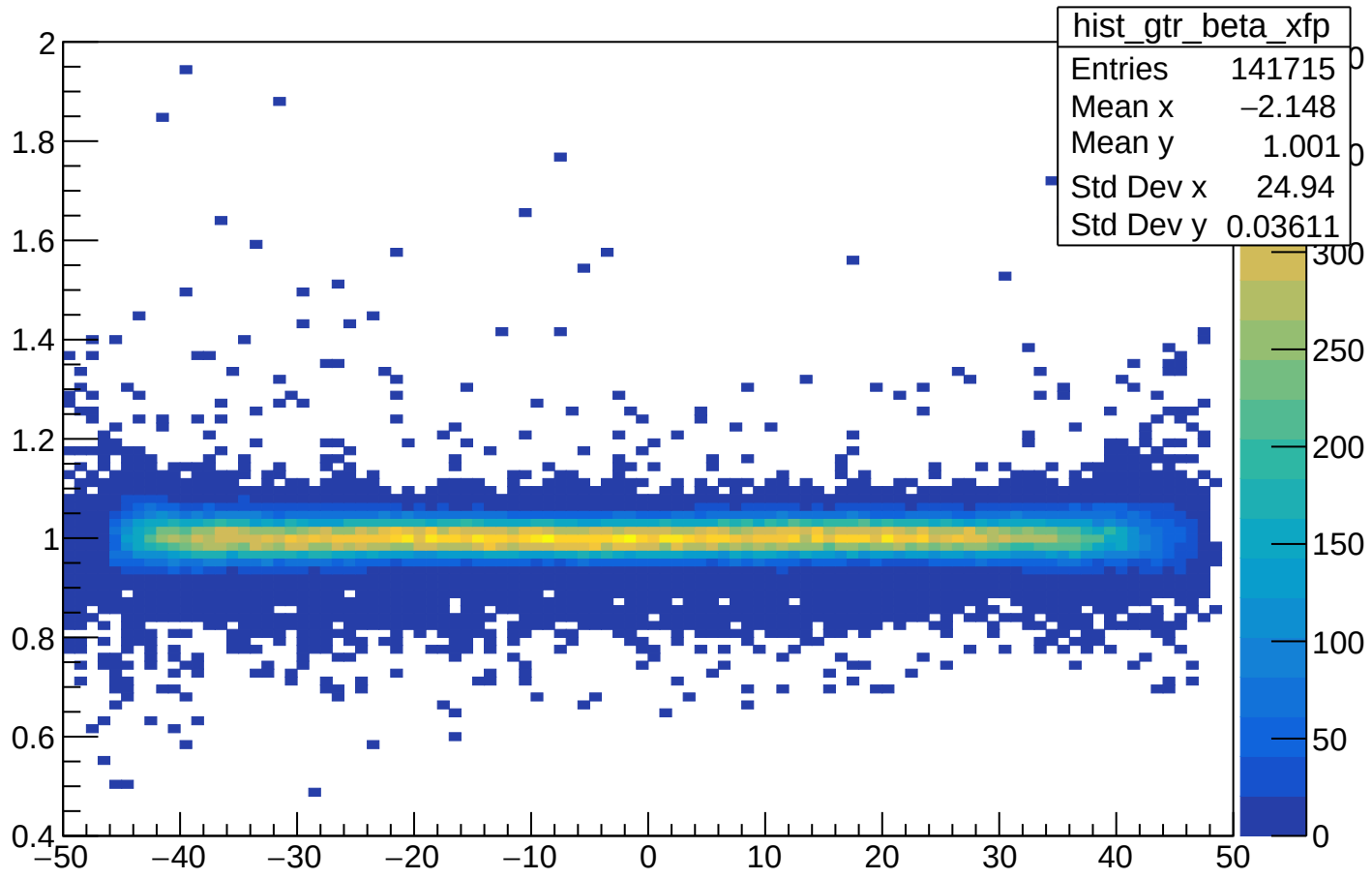

H.gtr.beta
Entries
Beta
Mean (no cuts) = 1.0017 ± 0.0001
Sigma (no cuts) = 0.0280 ± 0.0001
Mean (PID) = 1.0019 ± 0.0001
Sigma (PID) = 0.0277 ± 0.0001
Mean (PID & delta) = 1.0018 ± 0.0001
Sigma (PID & delta) = 0.0258 ± 0.0001
H.gtr.beta without cuts
Fit: H.gtr.beta without cuts
H.gtr.beta with PID cuts
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

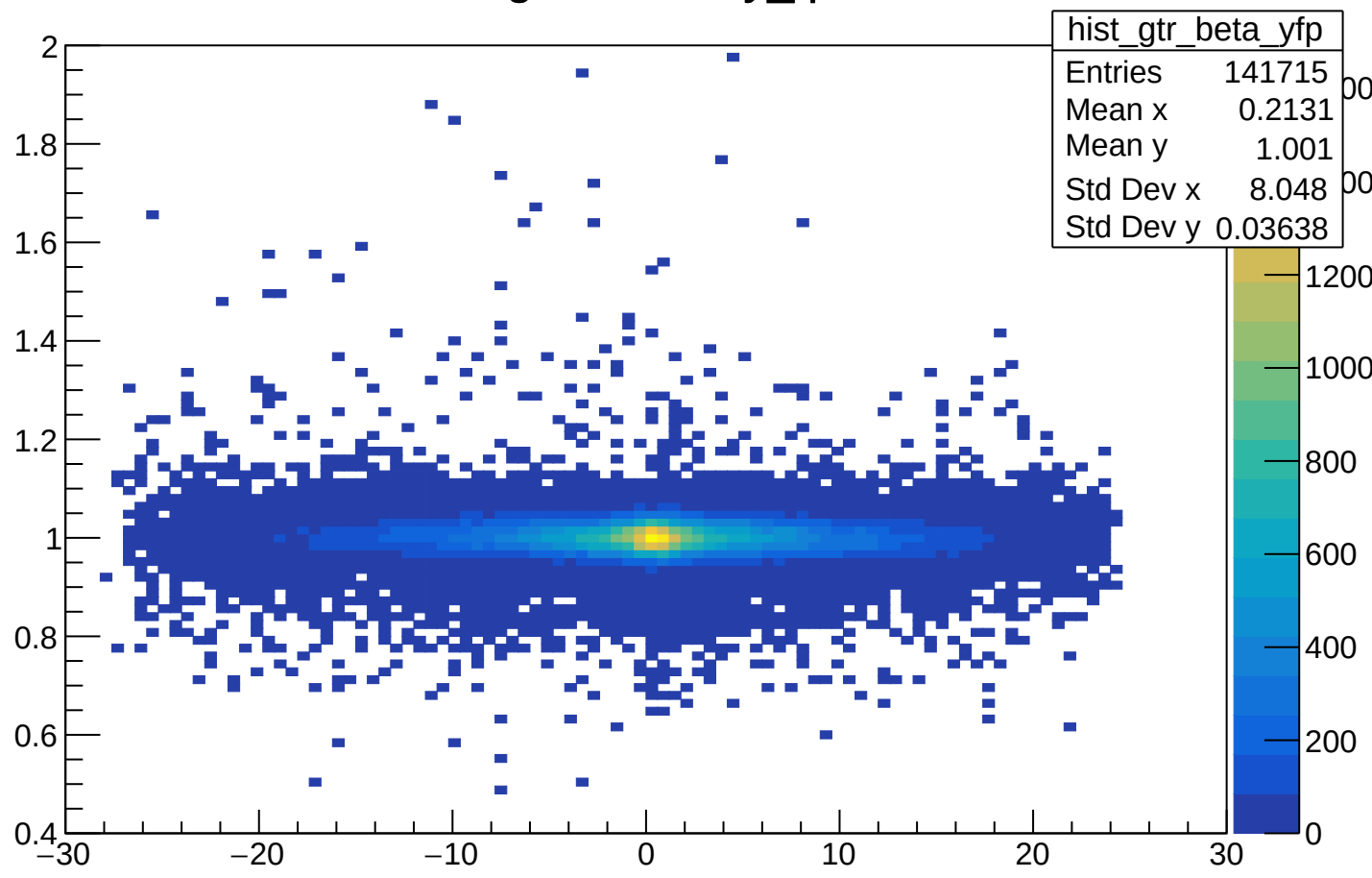

etottracknorm
hist_etottracknorm
Entries 141715
Mean 0.7598
Std Dev 0.3619
x = 0.7
10^5
10^4
10^3
10^2
10
1
0
1
2
3
4
5
6
7
8

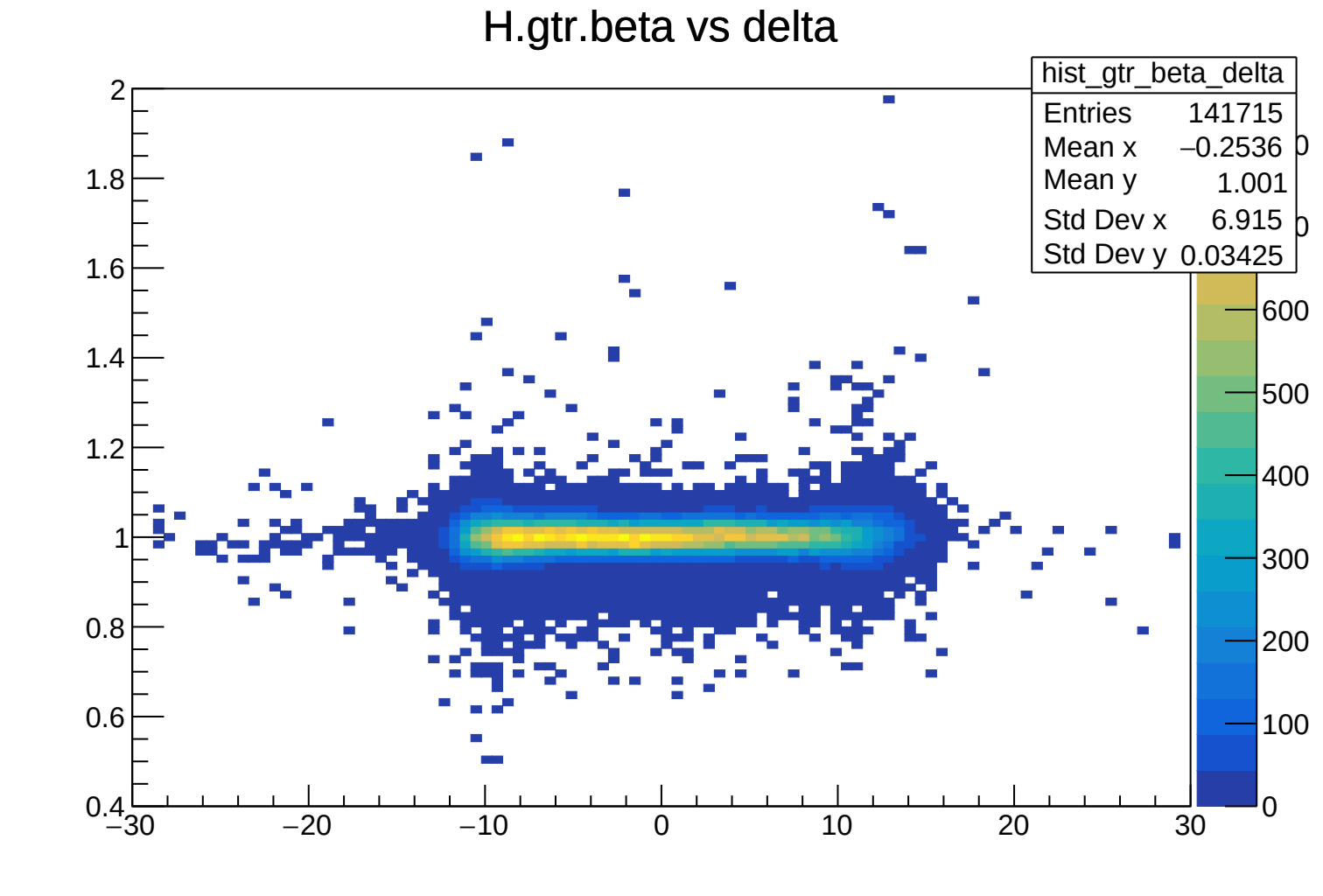

x = 0.7
npeSum
hist_npeSum
Entries 141715
Mean 10.59
Std Dev 5.256
10^4
10^3
10^2
10
1
0
10
20
30
40
50
60
70

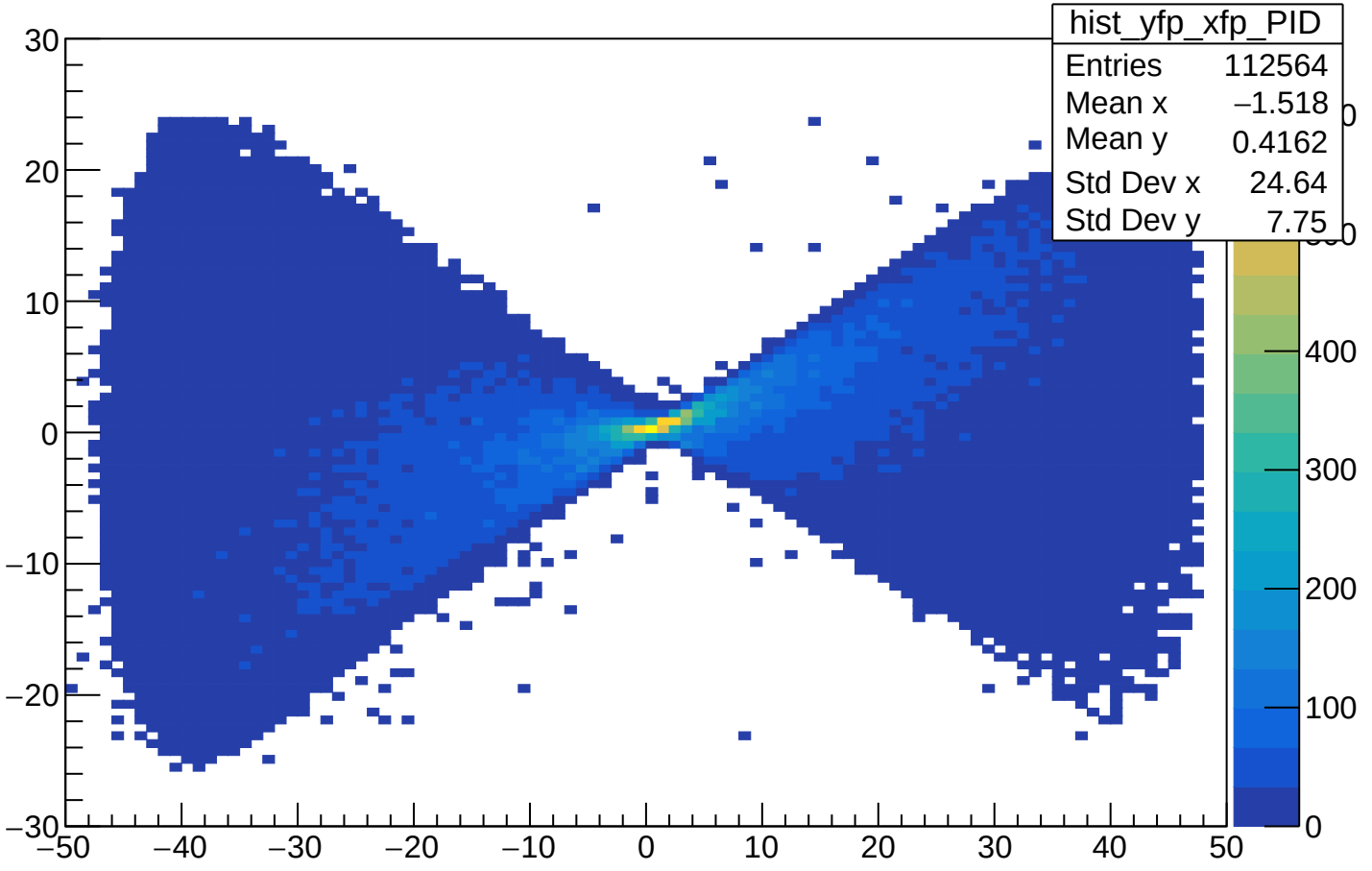

delta
hist_delta
Entries 141715
Mean −0.2625
Std Dev 6.923
x = -8
x = 8
10^3
10^2
10
1
−30
−20
−10
0
10
20
30

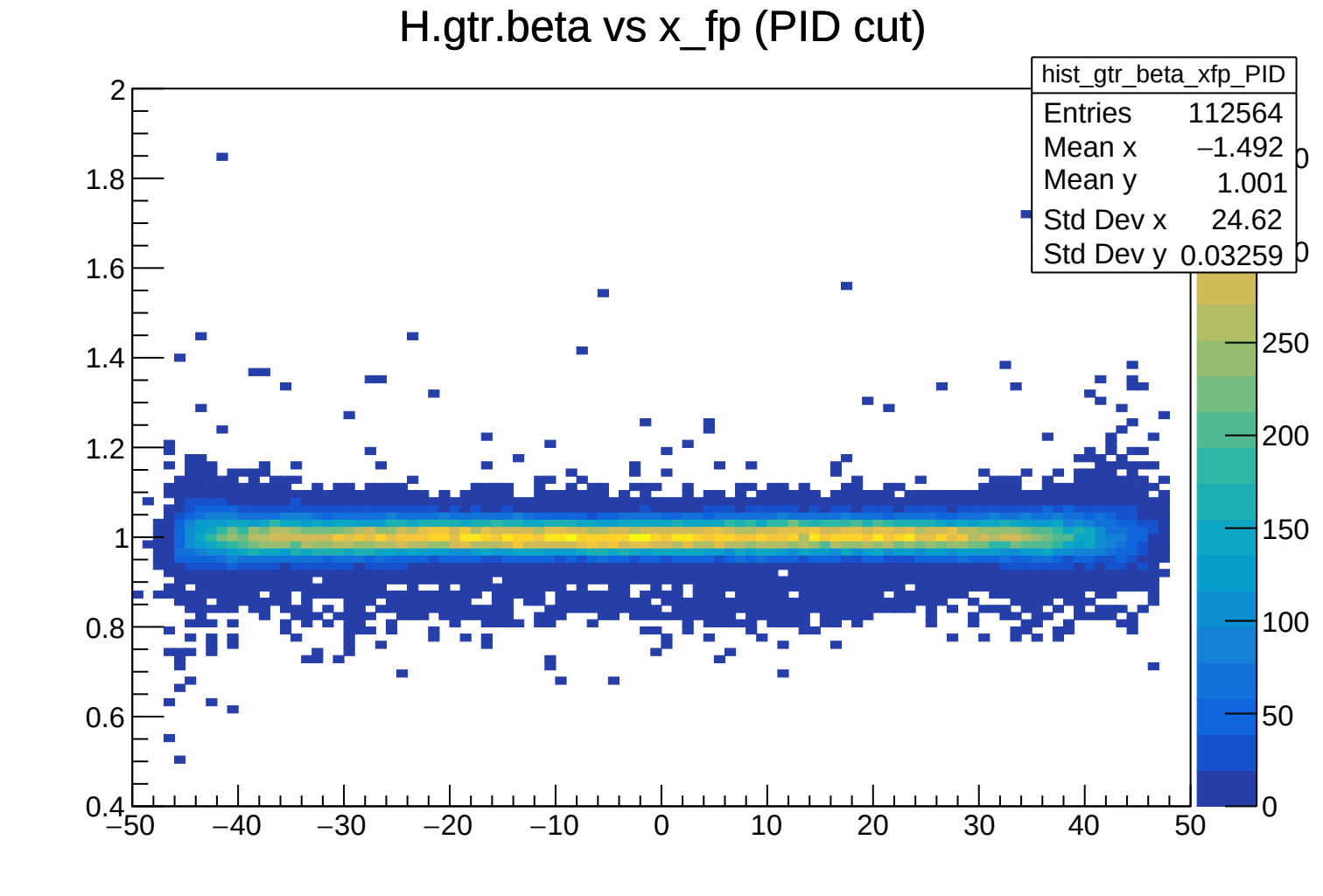

focal plane
hist_yfp_xfp
Entries 141715
Mean x −2.262
Mean y 0.2053
Std Dev x 24.98
Std Dev y 8.087
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
500
400
300
200
100
0

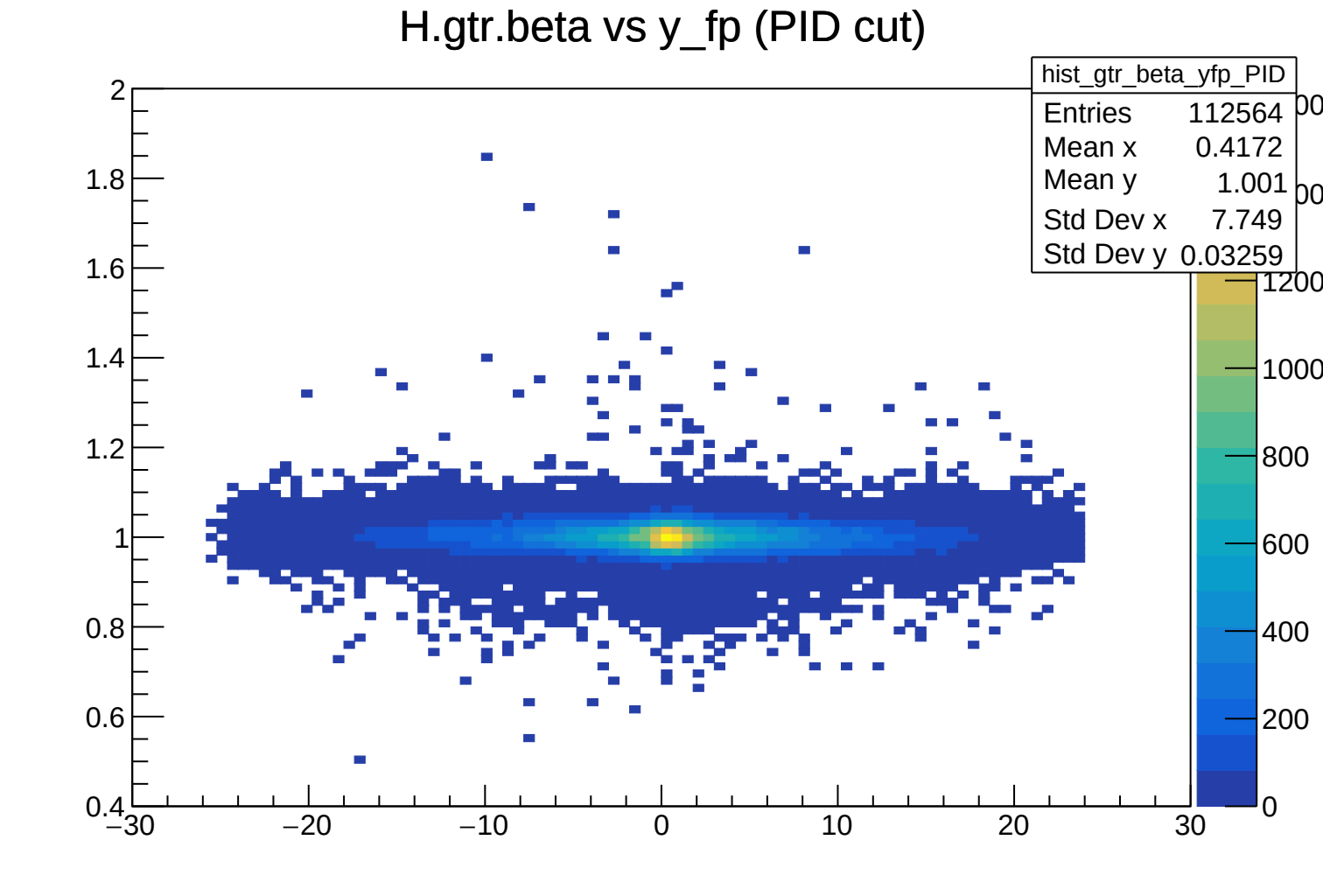

H.gtr.beta vs x_fp
hist_gtr_beta_xfp
Entries 141715
Mean x −2.148
Mean y 1.001
Std Dev x 24.94
Std Dev y 0.03611
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−50
−40
−30
−20
−10
0
10
20
30
40
50
300
250
200
150
100
50
0

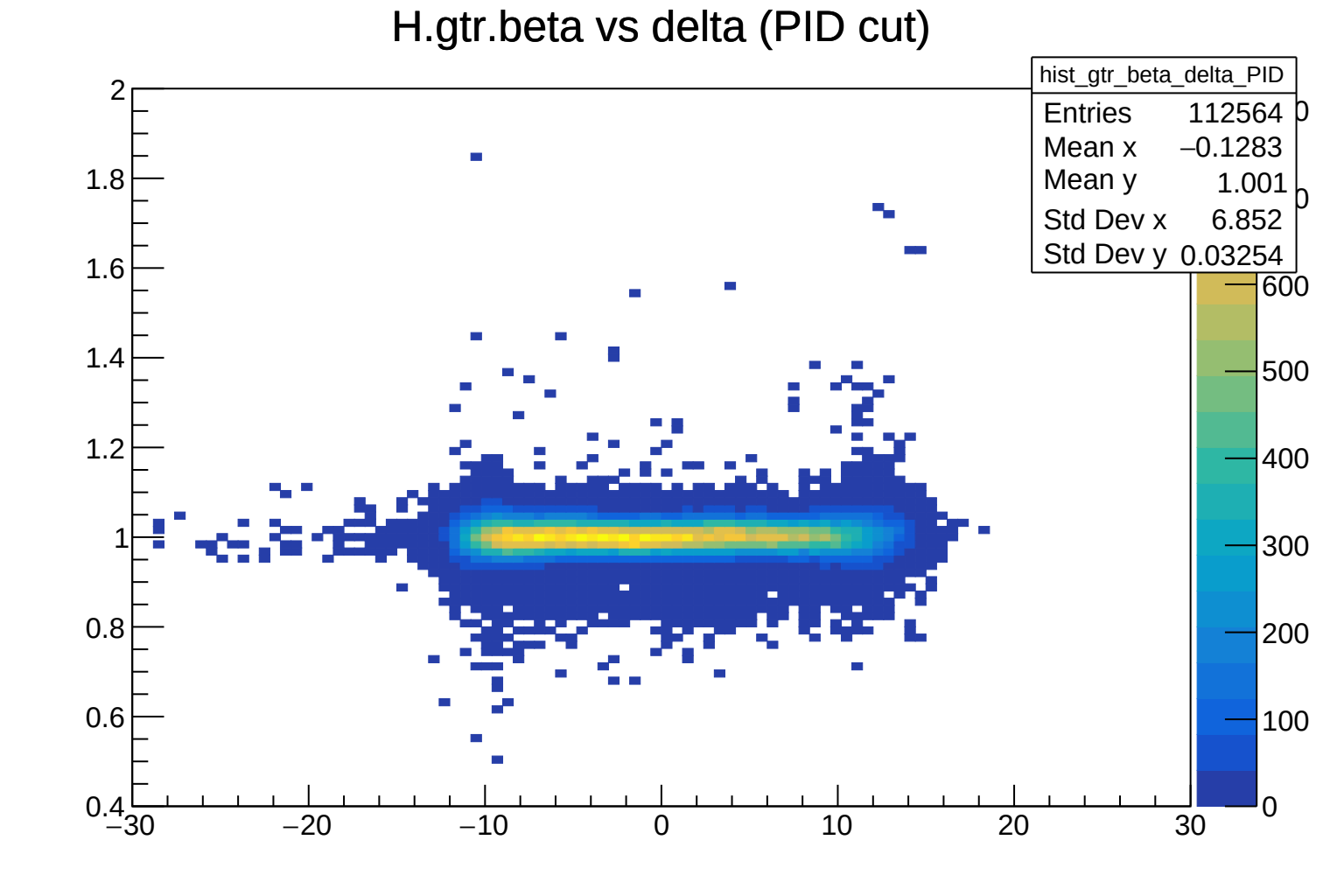

H.gtr.beta vs y_fp
hist_gtr_beta_yfp
Entries 141715
Mean x 0.2131
Mean y 1.001
Std Dev x 8.048
Std Dev y 0.03638
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
1200
1000
800
600
400
200
0

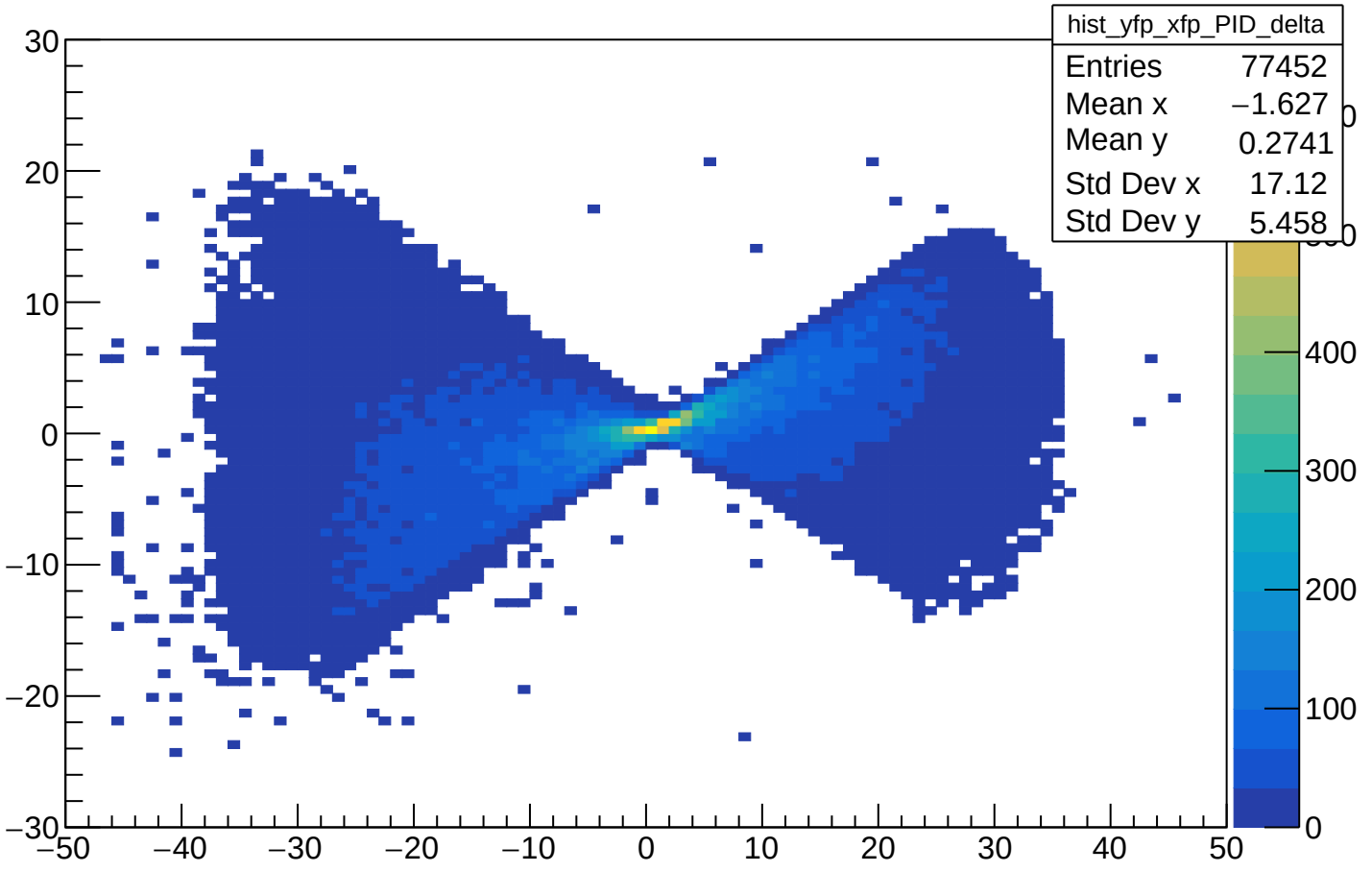

H.gtr.beta vs delta
hist_gtr_beta_delta
Entries 141715
Mean x −0.2536
Mean y 1.001
Std Dev x 6.915
Std Dev y 0.03425
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
600
500
400
300
200
100
0

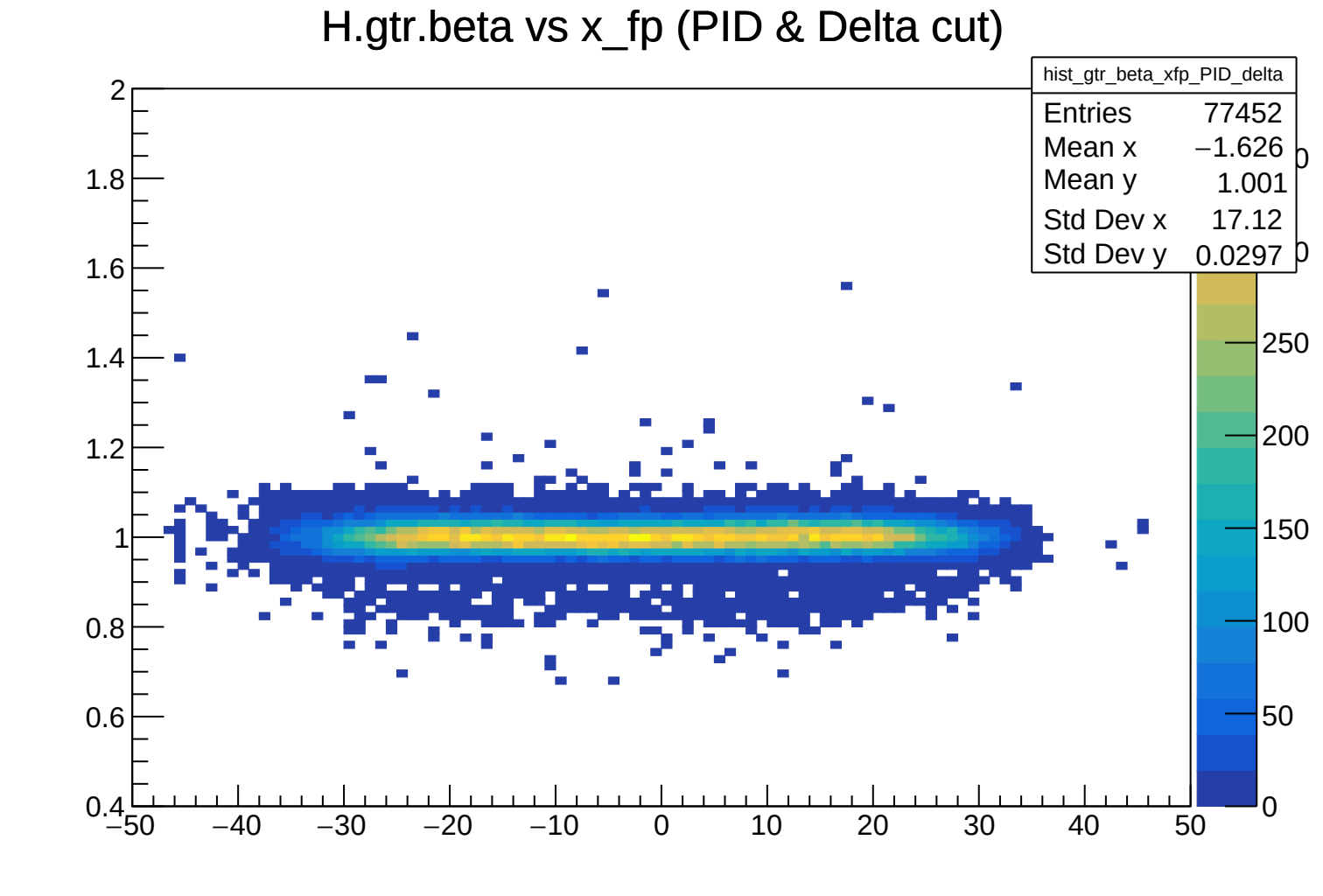

focal plane (PID cut)
hist_yfp_xfp_PID
Entries 112564
Mean x −1.518
Mean y 0.4162
Std Dev x 24.64
Std Dev y 7.75
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
400
300
200
100
0

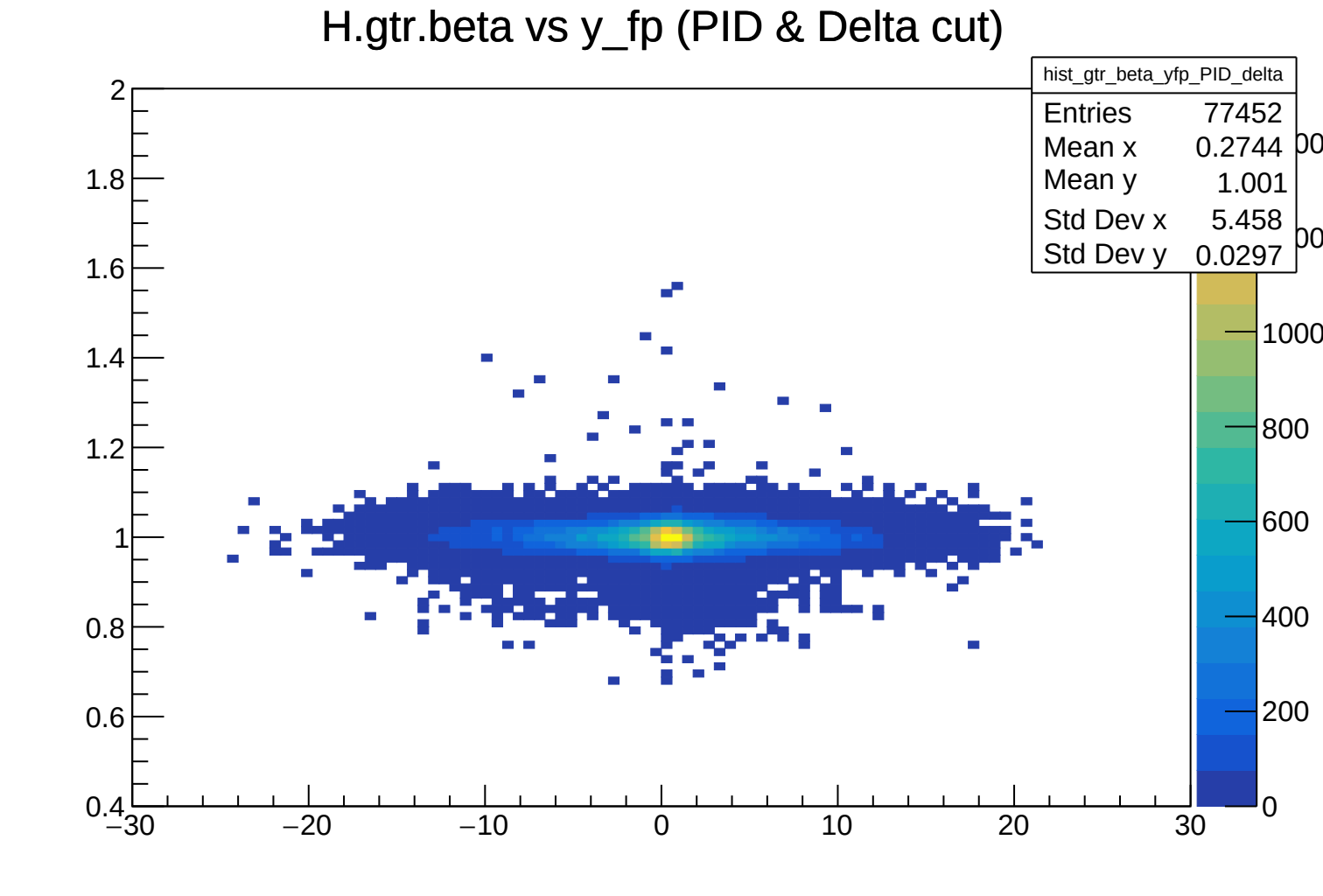

H.gtr.beta vs x_fp (PID cut)
hist_gtr_beta_xfp_PID
Entries 112564
Mean x −1.492
Mean y 1.001
Std Dev x 24.62
Std Dev y 0.03259
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−50
−40
−30
−20
−10
0
10
20
30
40
50
250
200
150
100
50
0

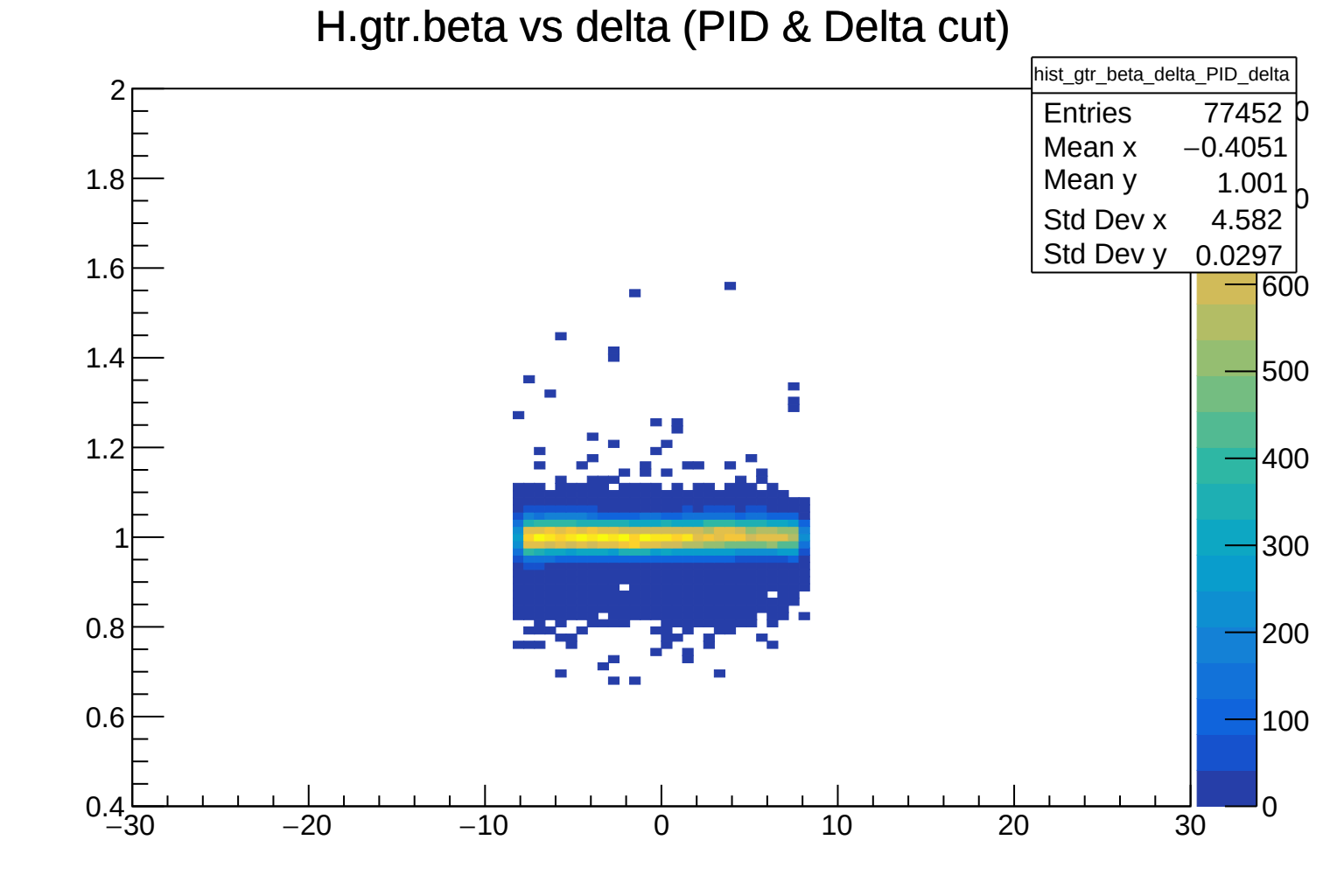

H.gtr.beta vs y_fp (PID cut)
hist_gtr_beta_yfp_PID
Entries 112564
Mean x 0.4172
Mean y 1.001
Std Dev x 7.749
Std Dev y 0.03259
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
1200
1000
800
600
400
200
0


H.gtr.beta vs delta (PID cut)
hist_gtr_beta_delta_PID
Entries 112564
Mean x −0.1283
Mean y 1.001
Std Dev x 6.852
Std Dev y 0.03254
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


focal plane (PID & Delta cut)
hist_yfp_xfp_PID_delta
Entries 77452
Mean x −1.627
Mean y 0.2741
Std Dev x 17.12
Std Dev y 5.458
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
400
300
200
100
0


H.gtr.beta vs x_fp (PID & Delta cut)
hist_gtr_beta_xfp_PID_delta
Entries 77452
Mean x −1.626
Mean y 1.001
Std Dev x 17.12
Std Dev y 0.0297
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 77452
Mean x 0.2744
Mean y 1.001
Std Dev x 5.458
Std Dev y 0.0297
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 (PID & Delta cut)
hist_gtr_beta_delta_PID_delta
Entries 77452
Mean x −0.4051
Mean y 1.001
Std Dev x 4.582
Std Dev y 0.0297
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