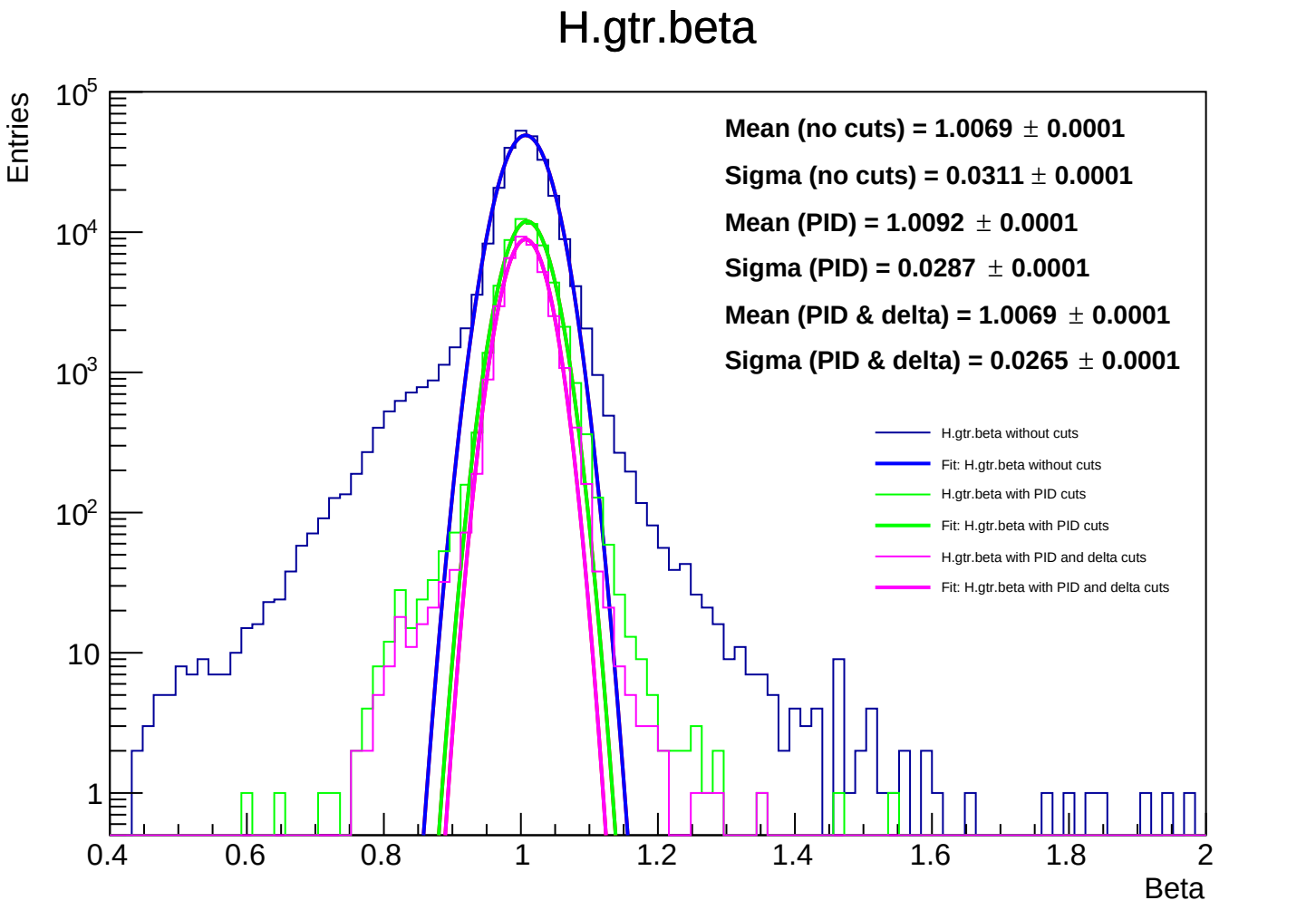
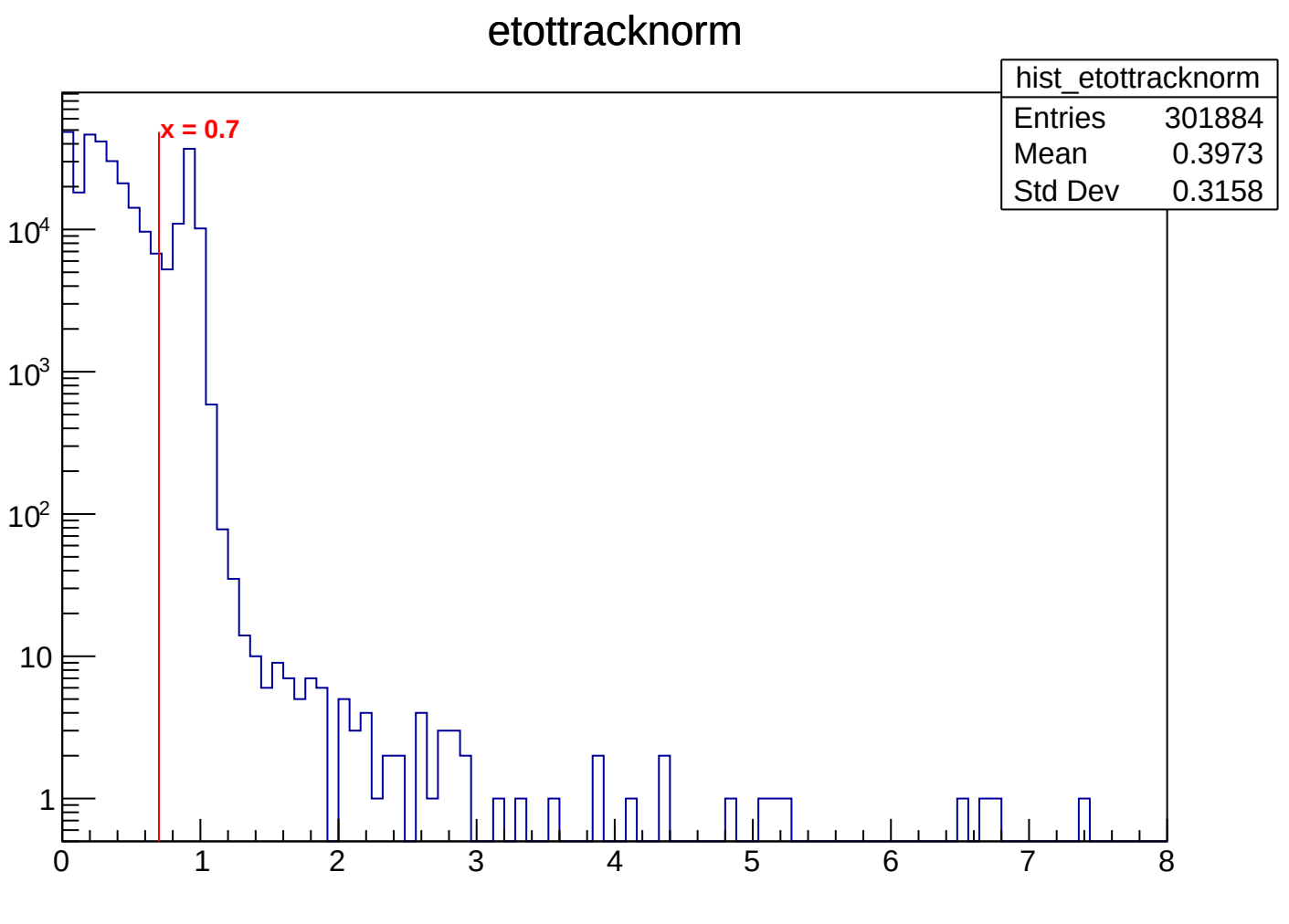
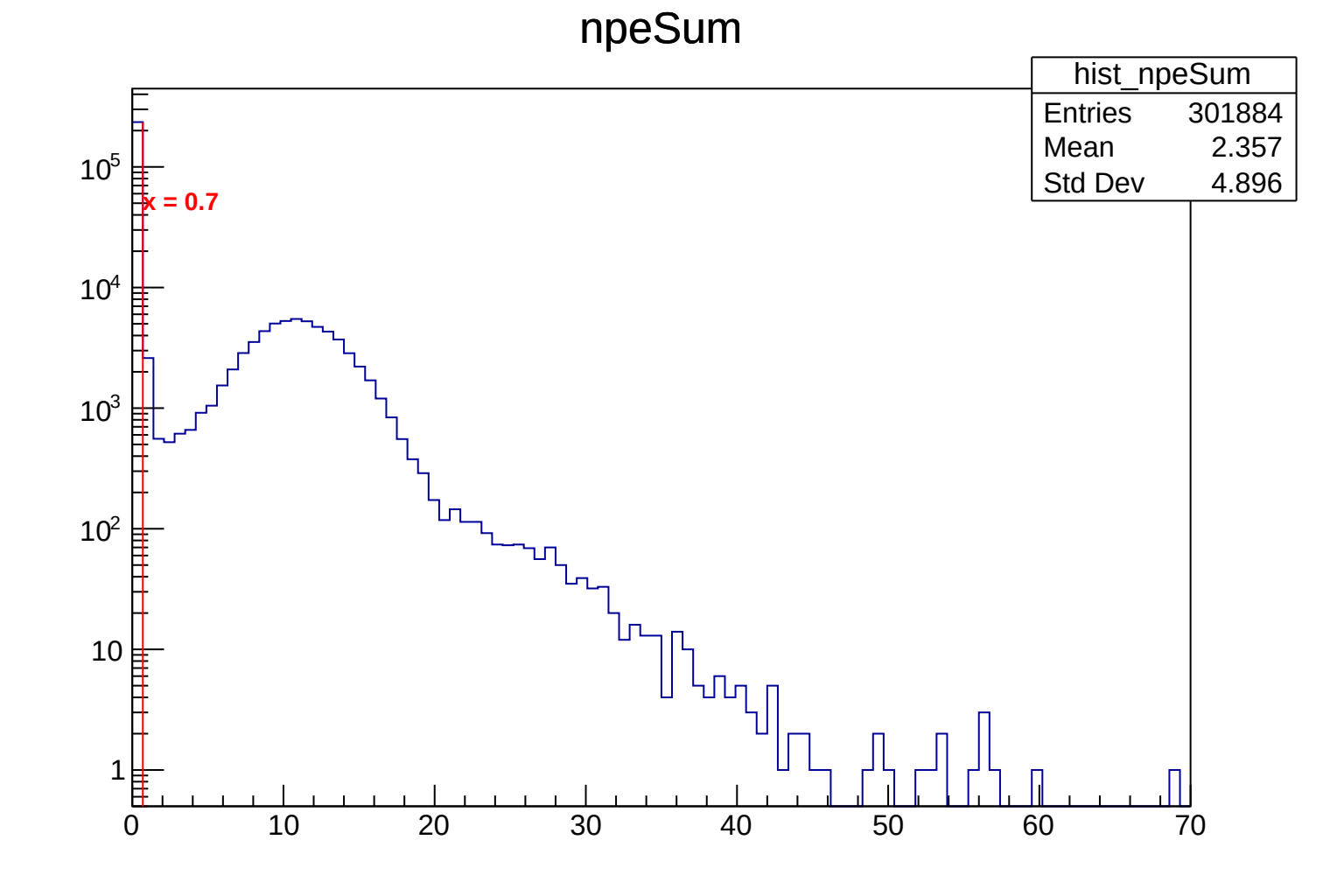
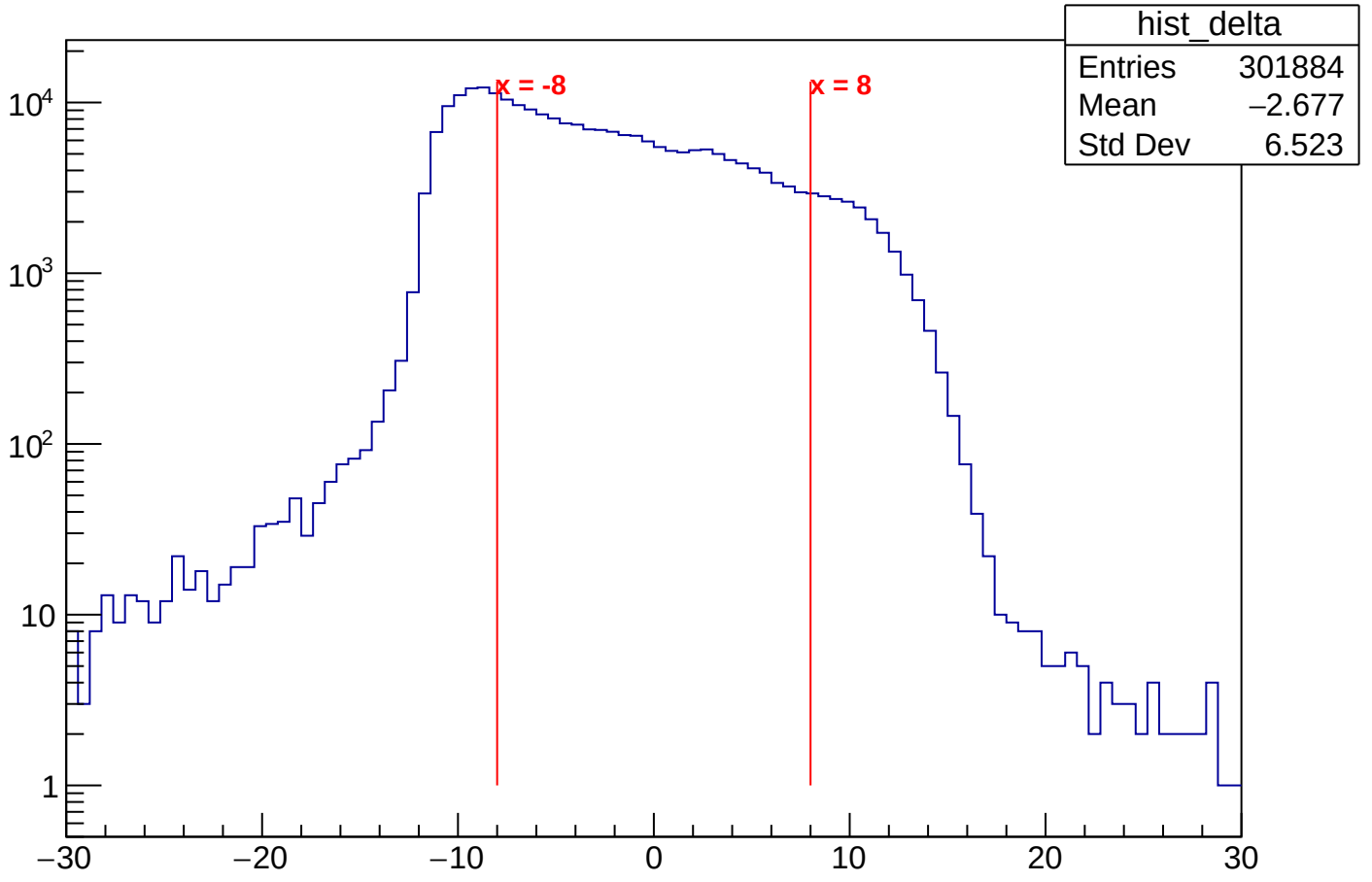
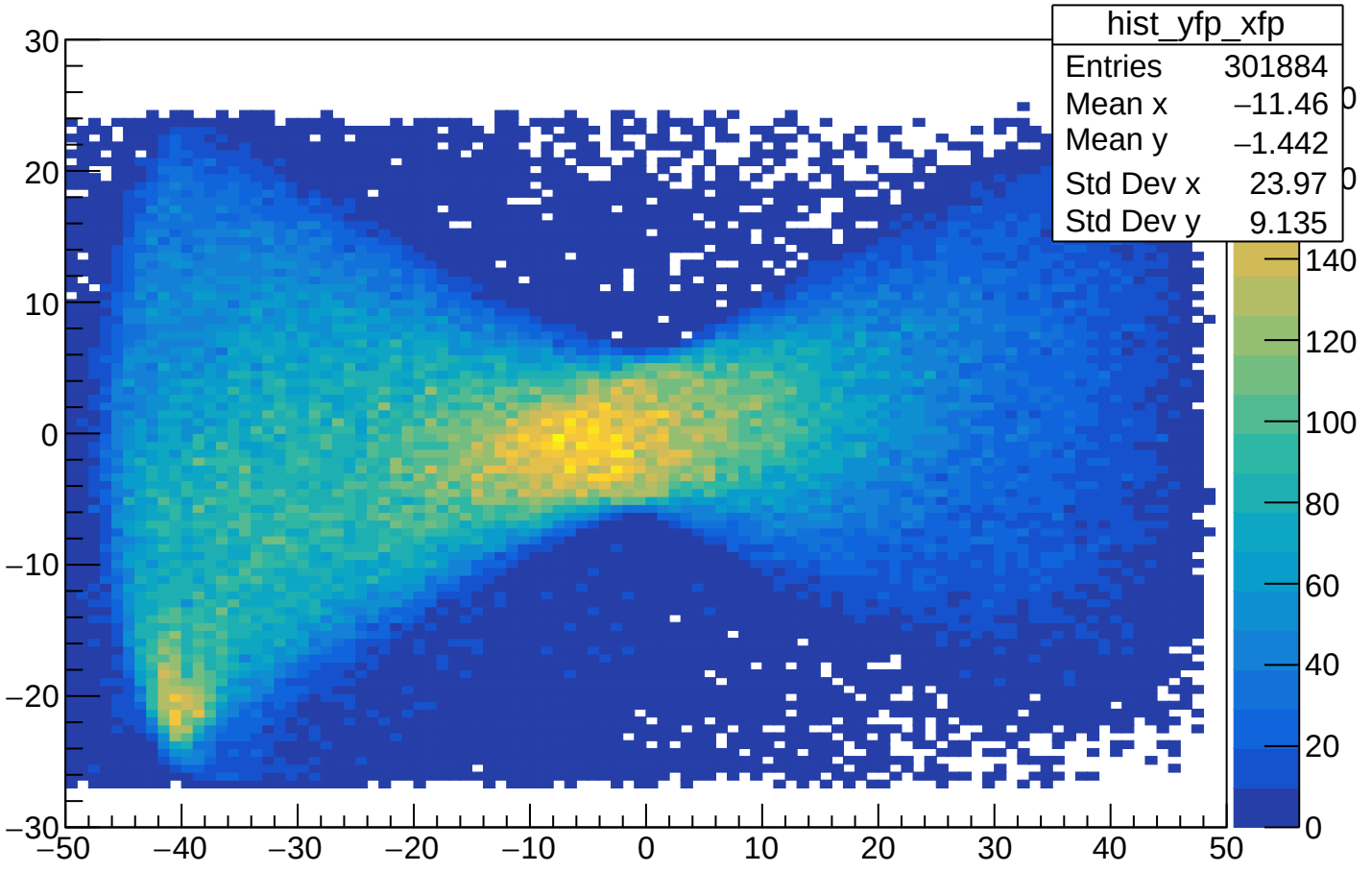
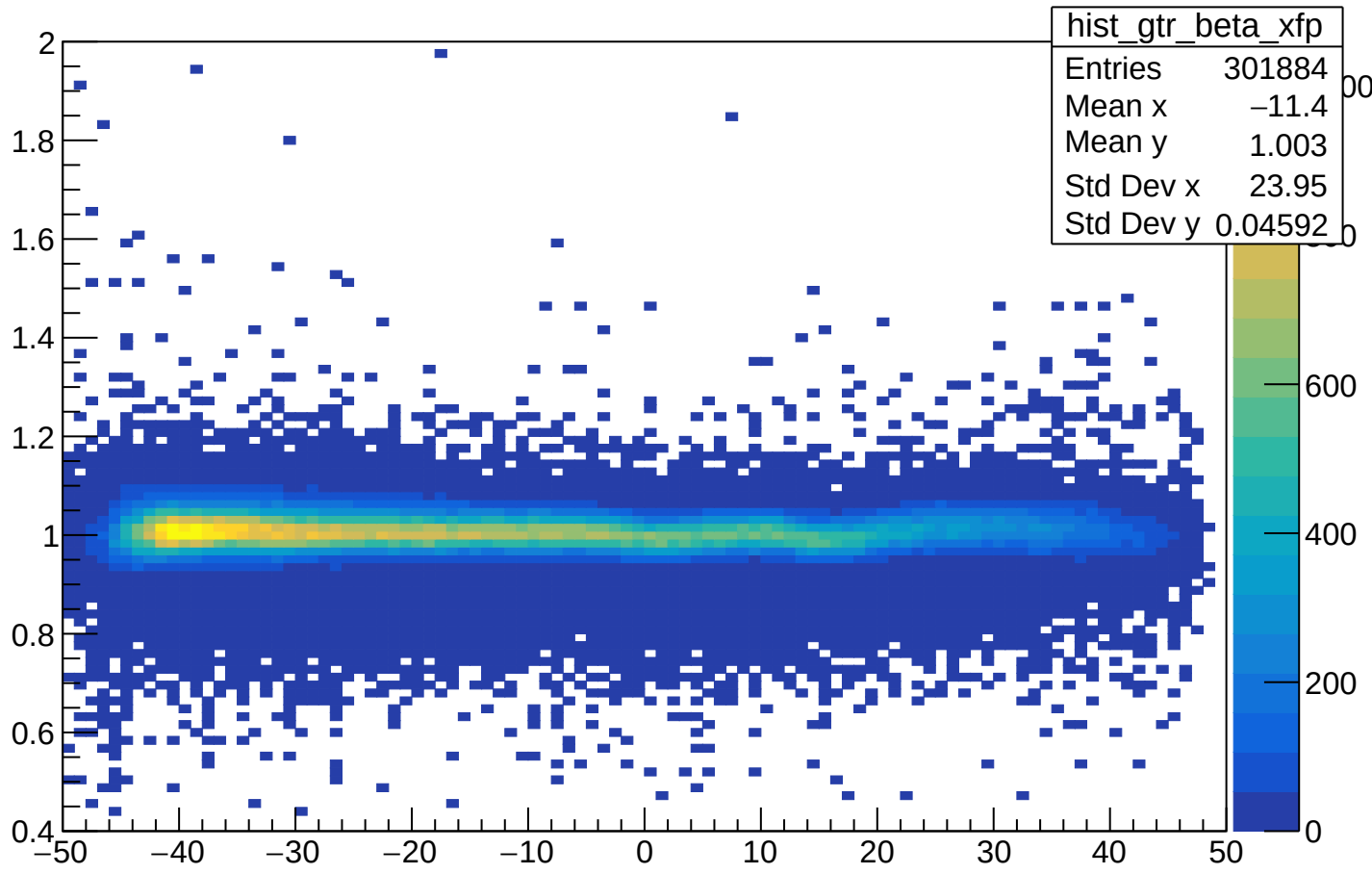

H.gtr.beta
Entries
Beta
Mean (no cuts) = 1.0069 ± 0.0001
Sigma (no cuts) = 0.0311 ± 0.0001
Mean (PID) = 1.0092 ± 0.0001
Sigma (PID) = 0.0287 ± 0.0001
Mean (PID & delta) = 1.0069 ± 0.0001
Sigma (PID & delta) = 0.0265 ± 0.0001
H.gtr.beta without cuts
Fit: H.gtr.beta without cuts
H.gtr.beta with PID cuts
Fit: H.gtr.beta with PID cuts
H.gtr.beta with PID and delta cuts
Fit: H.gtr.beta with PID and delta cuts

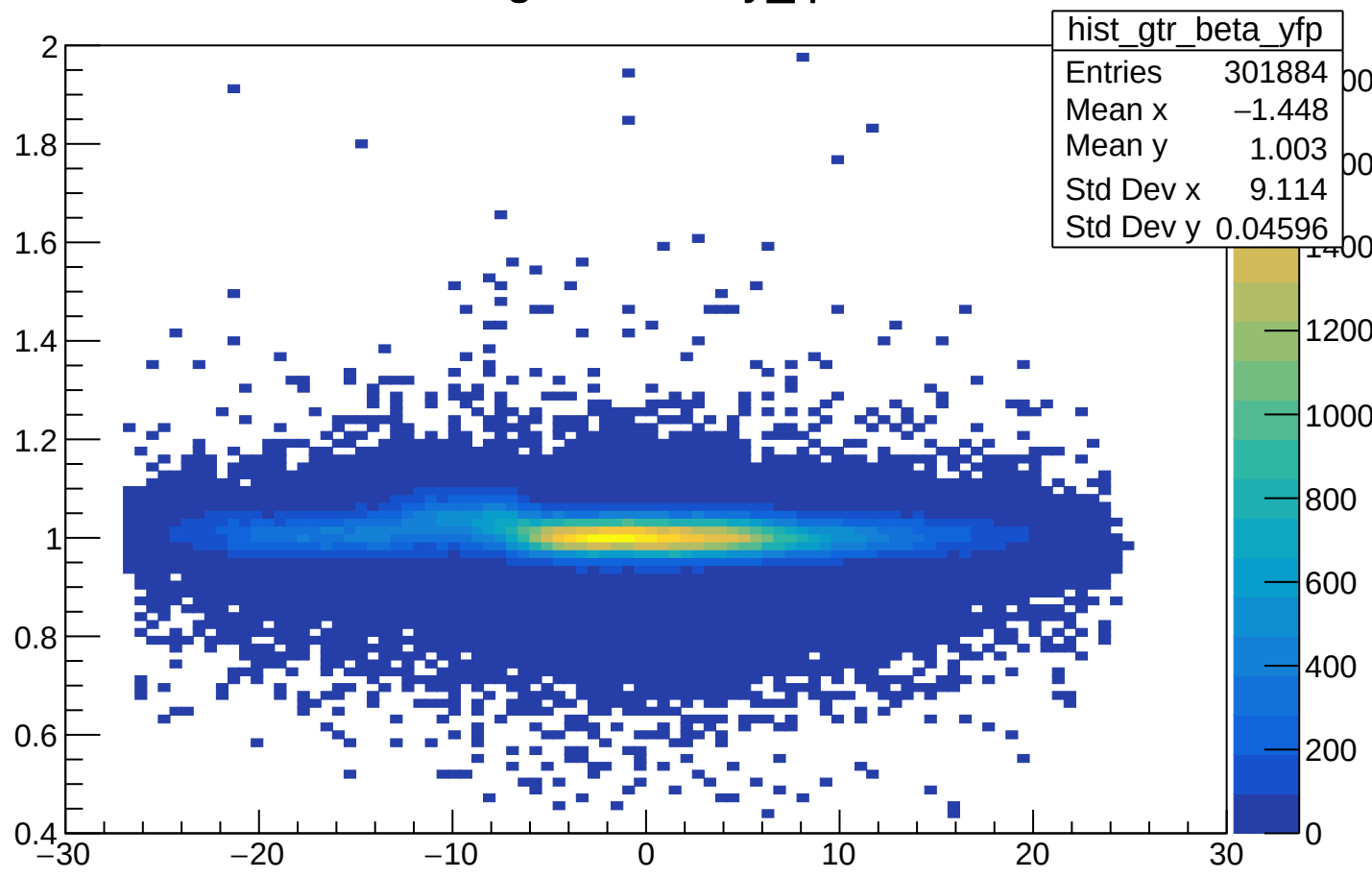

etottracknorm
hist_etottracknorm
Entries 301884
Mean 0.3973
Std Dev 0.3158
x = 0.7
10^4
10^3
10^2
10
1
0
1
2
3
4
5
6
7
8

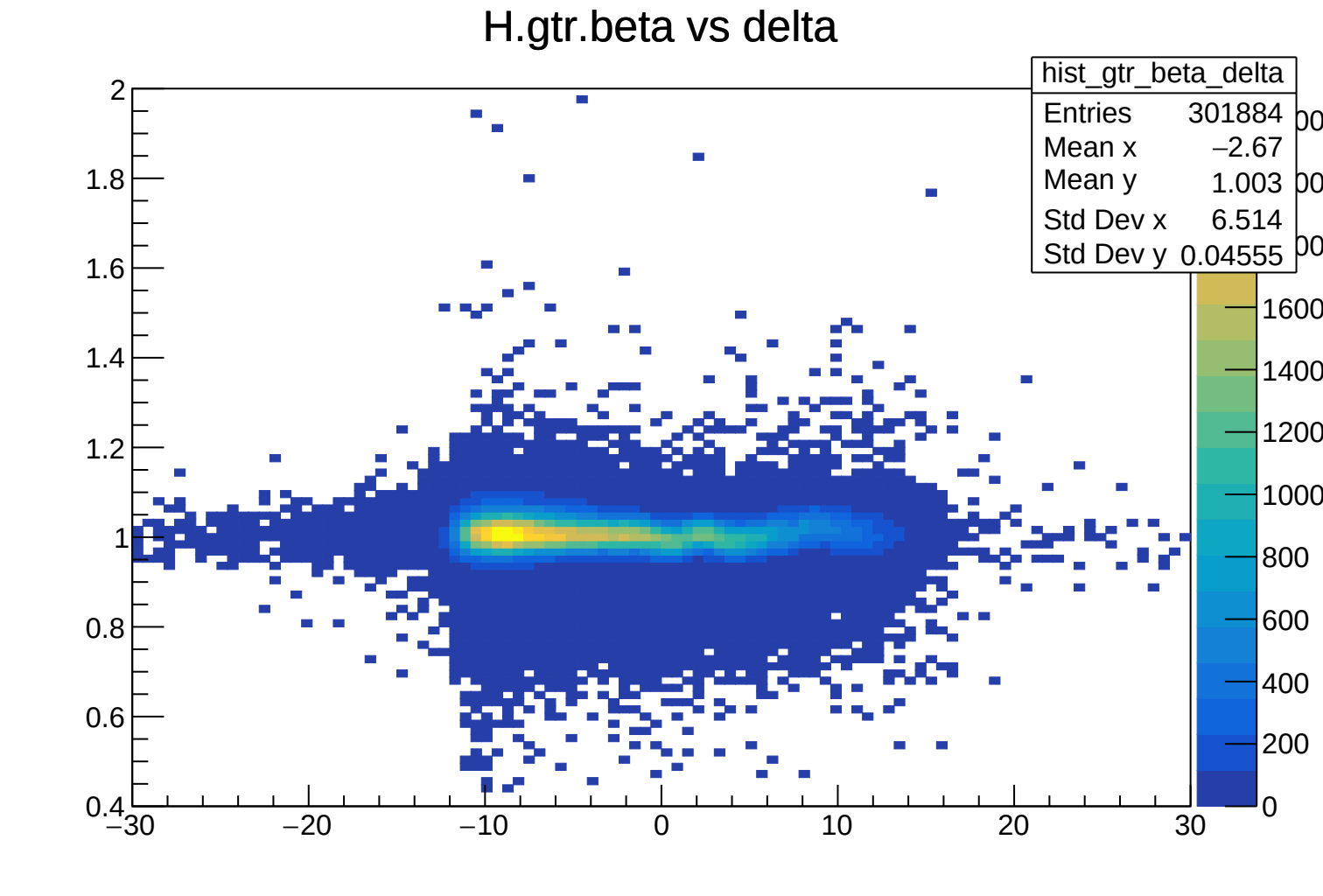

npeSum
hist_npeSum
Entries 301884
Mean 2.357
Std Dev 4.896
x = 0.7
10^5
10^4
10^3
10^2
10
1
0
10
20
30
40
50
60
70

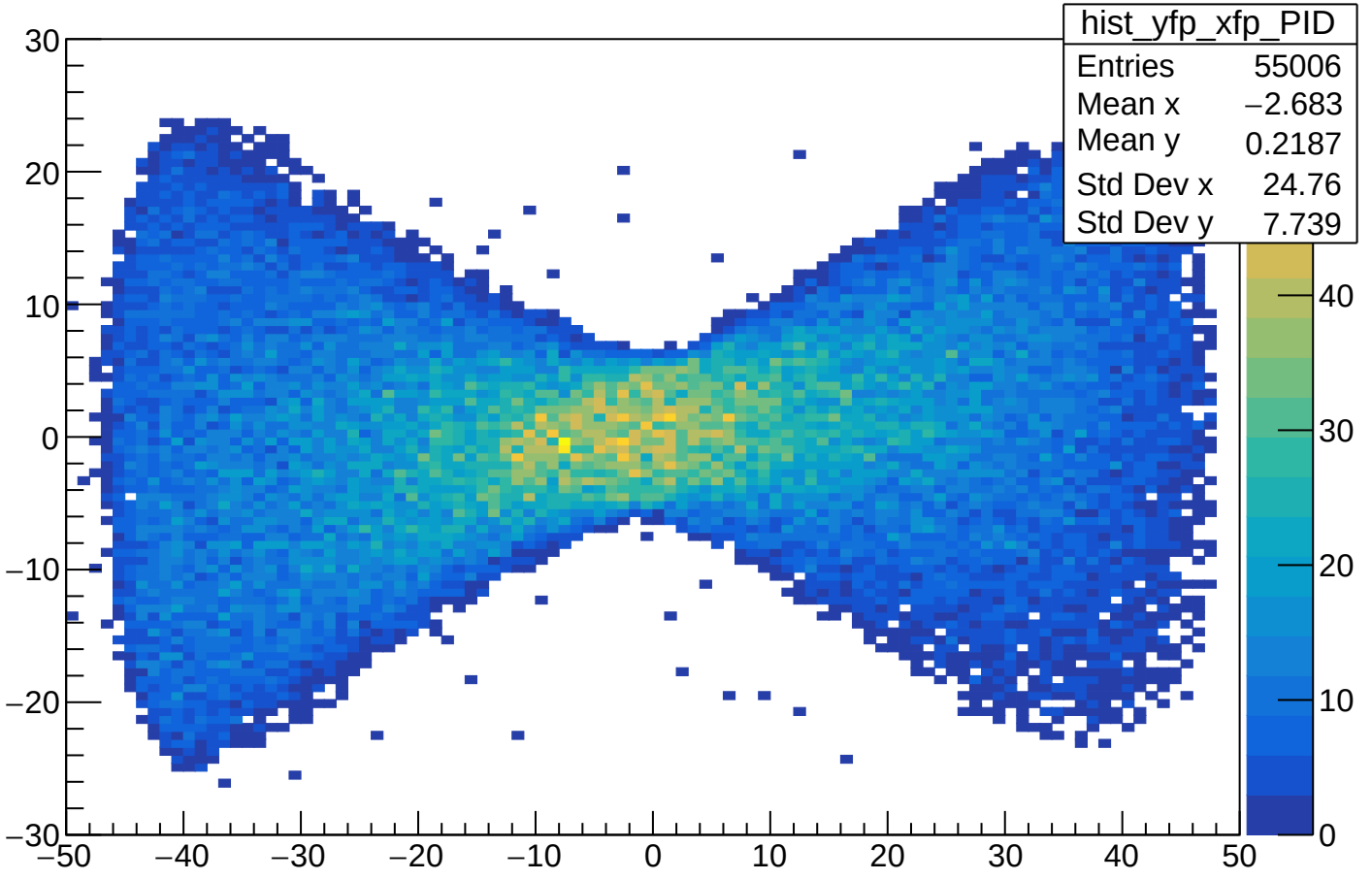

delta
hist_delta
Entries 301884
Mean −2.677
Std Dev 6.523
x = -8
x = 8
10^4
10^3
10^2
10
1
−30
−20
−10
0
10
20
30

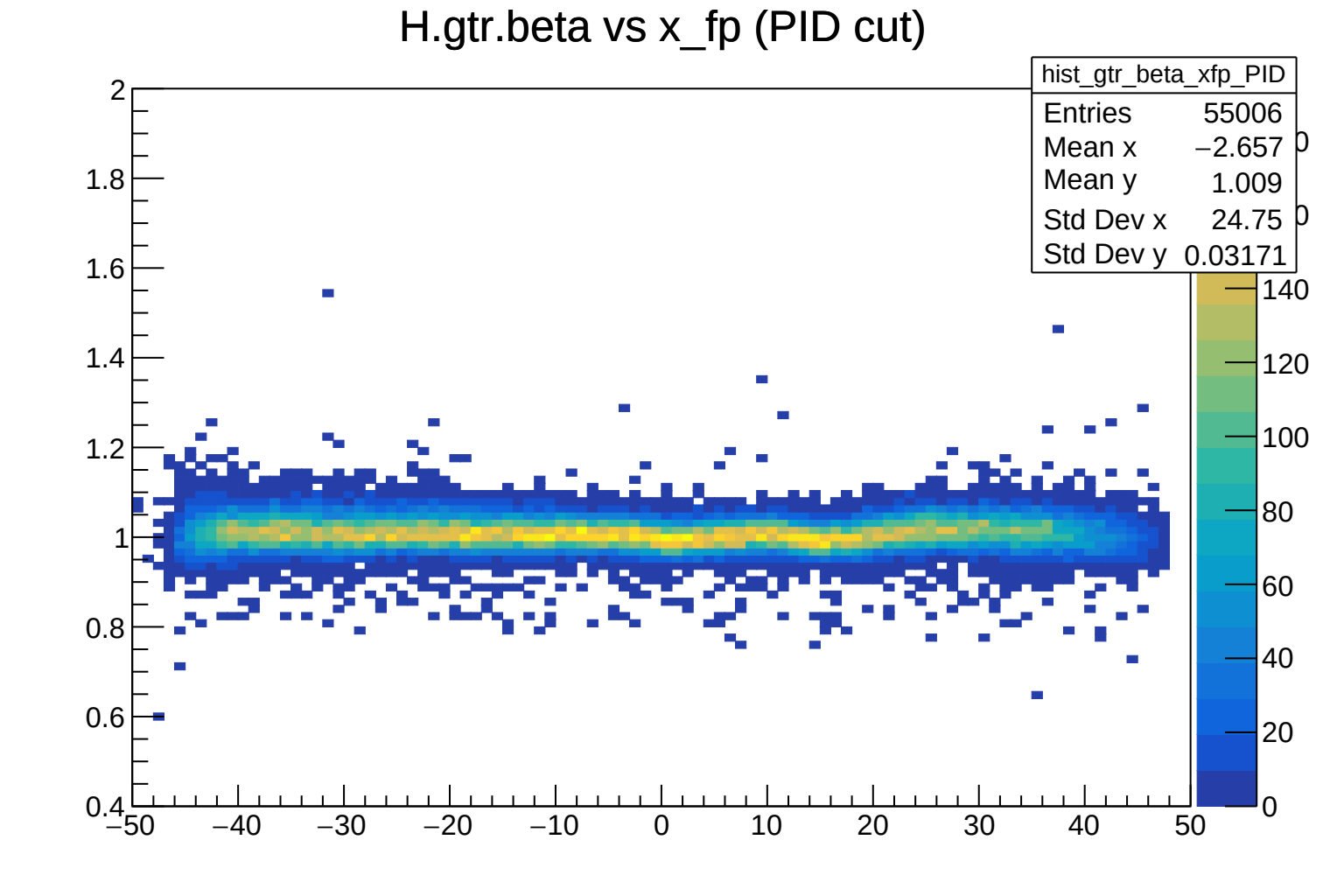

focal plane
hist_yfp_xfp
Entries 301884
Mean x −11.46
Mean y −1.442
Std Dev x 23.97
Std Dev y 9.135
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
140
120
100
80
60
40
20
0

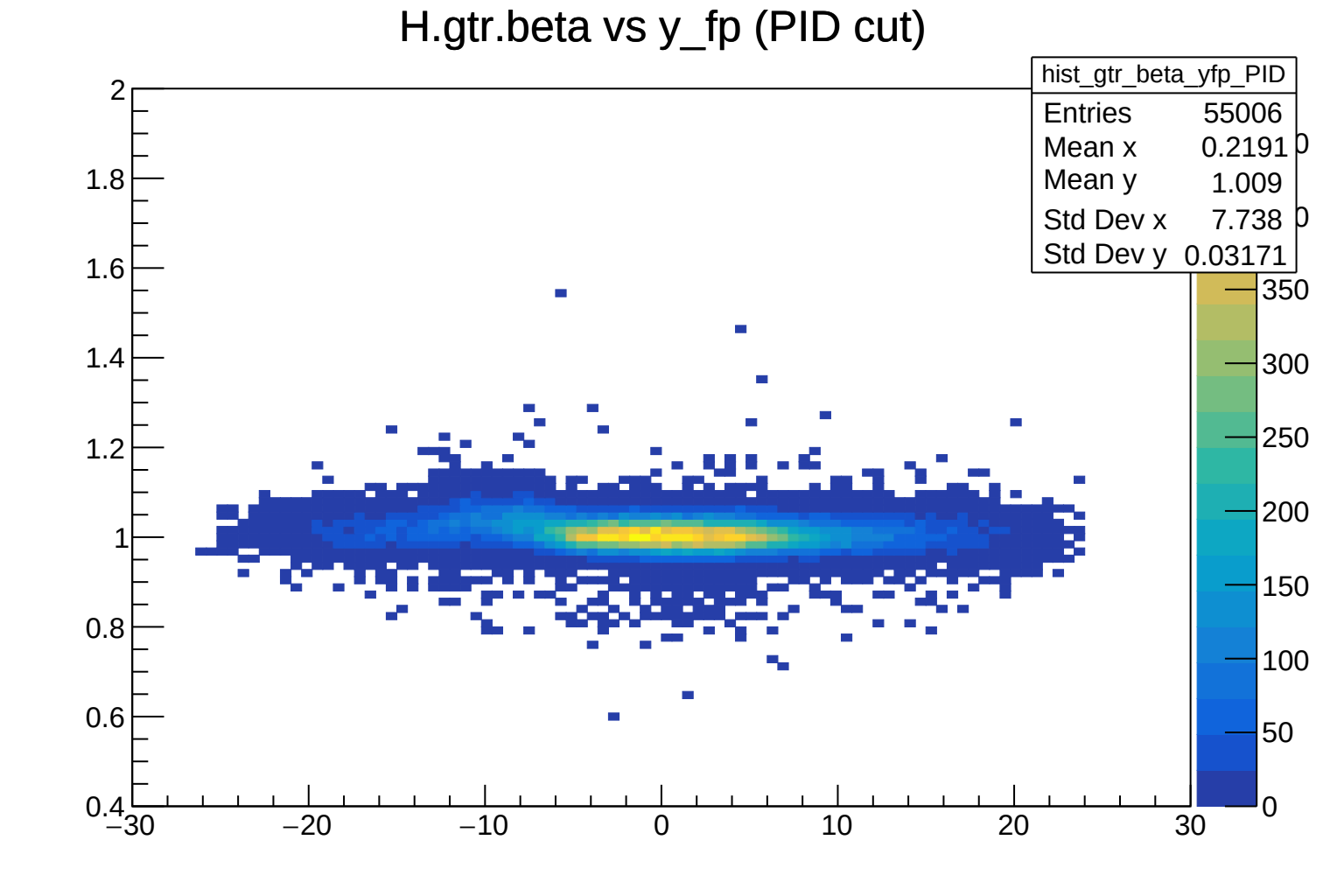

H.gtr.beta vs x_fp
hist_gtr_beta_xfp
Entries 301884
Mean x −11.4
Mean y 1.003
Std Dev x 23.95
Std Dev y 0.04592
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−50
−40
−30
−20
−10
0
10
20
30
40
50
600
400
200
0

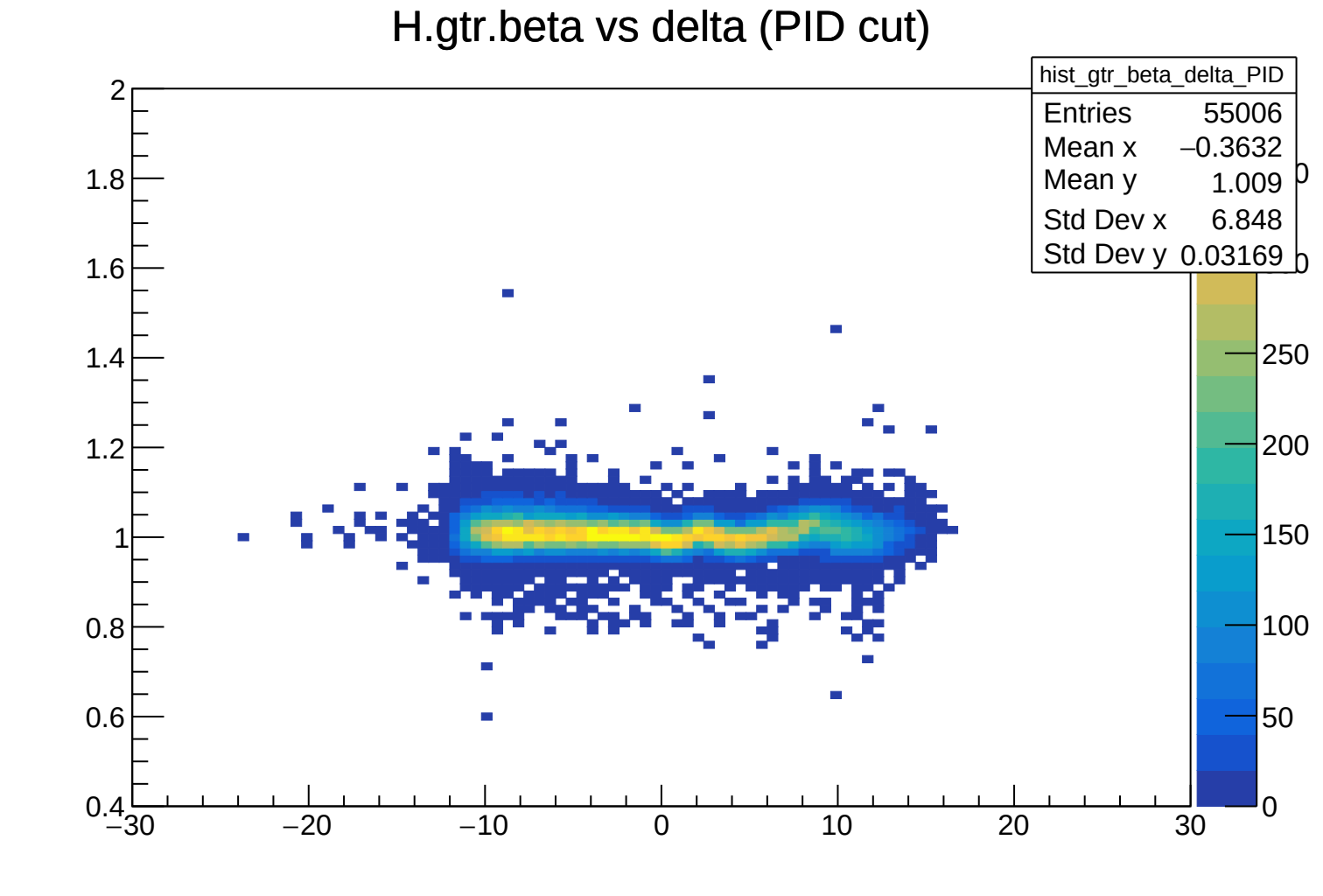

H.gtr.beta vs y_fp
hist_gtr_beta_yfp
Entries 301884
Mean x −1.448
Mean y 1.003
Std Dev x 9.114
Std Dev y 0.04596
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
1200
1000
800
600
400
200
0

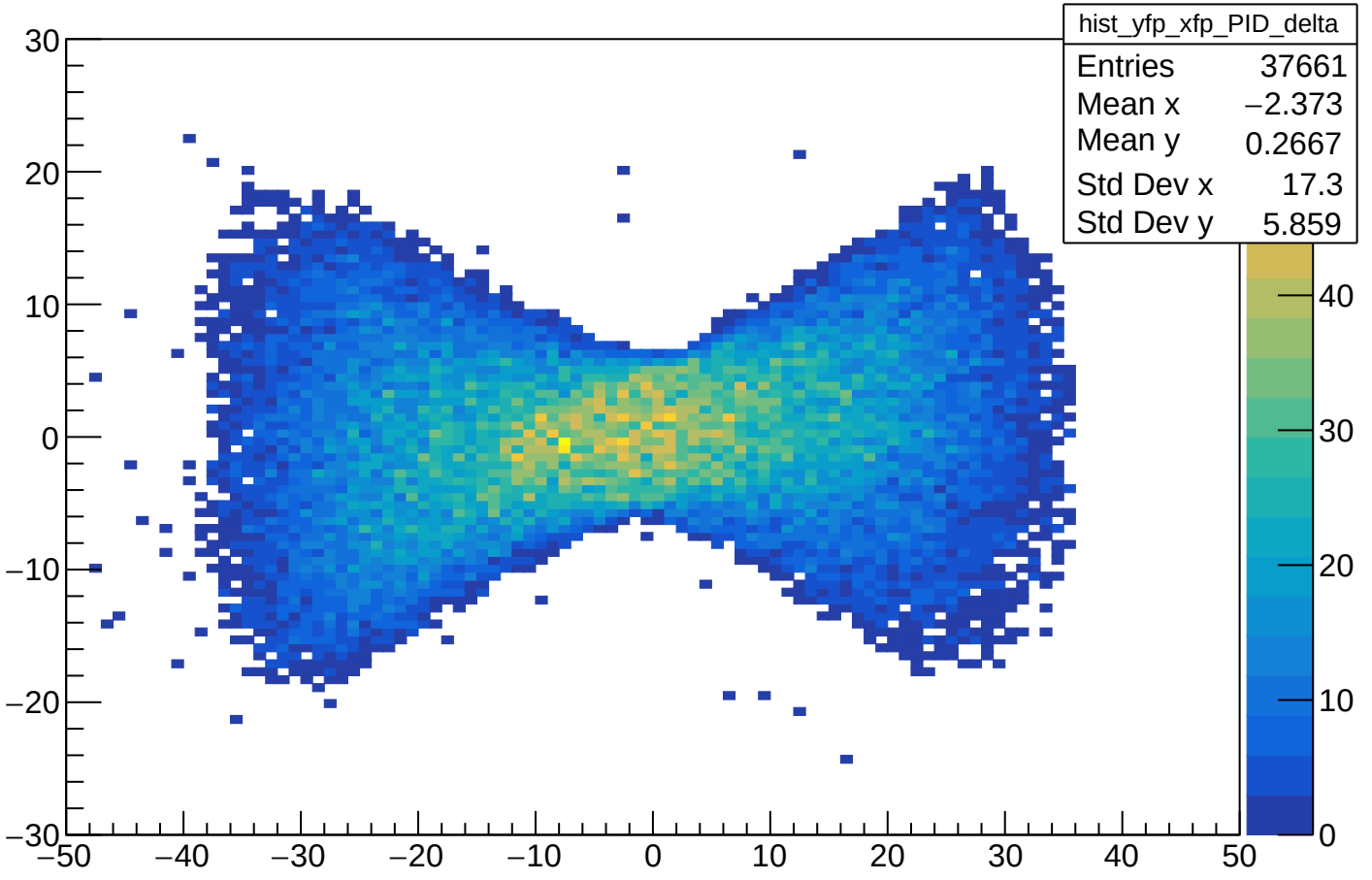

H.gtr.beta vs delta
hist_gtr_beta_delta
Entries 301884
Mean x −2.67
Mean y 1.003
Std Dev x 6.514
Std Dev y 0.04555
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
1600
1400
1200
1000
800
600
400
200
0

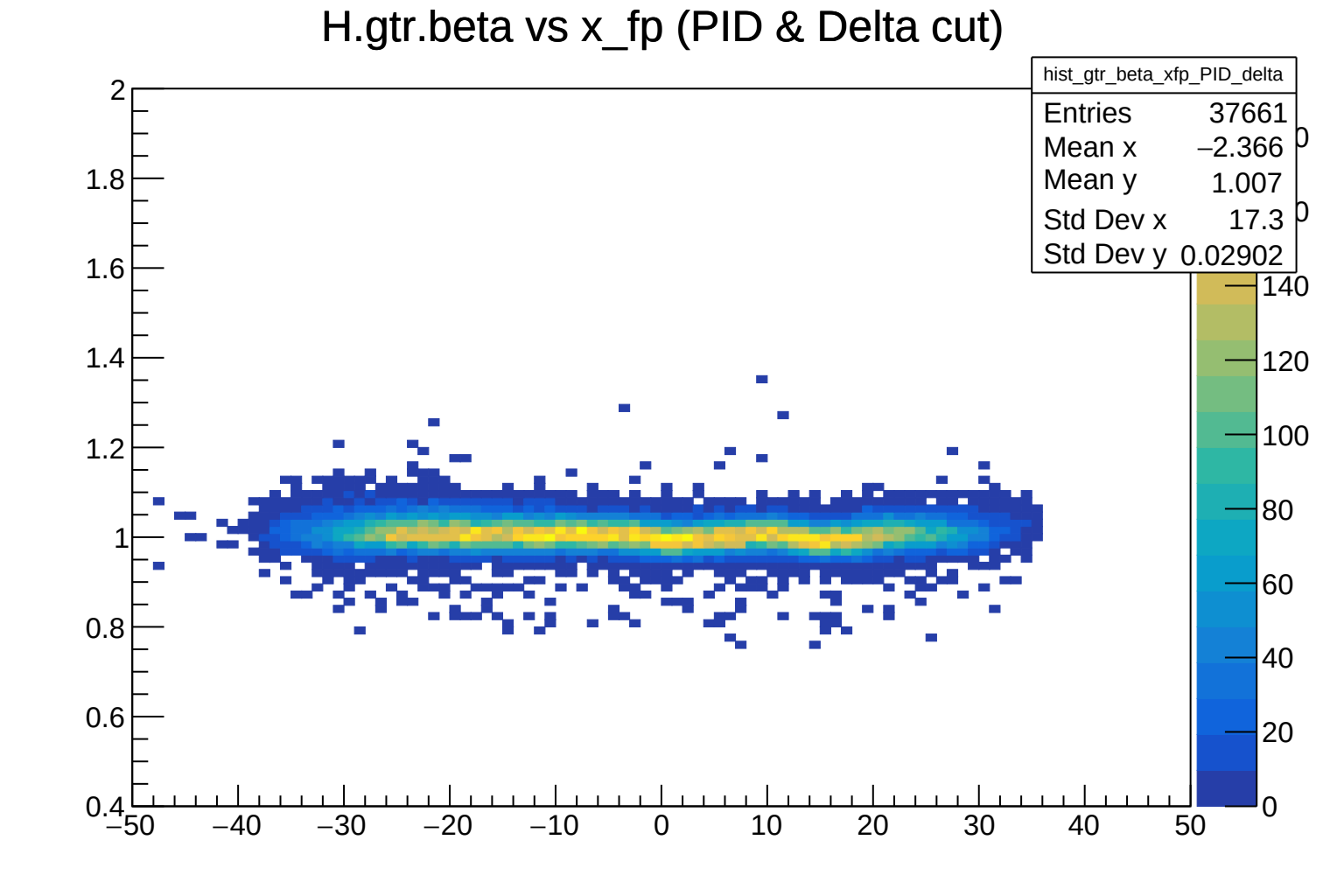

focal plane (PID cut)
hist_yfp_xfp_PID
Entries 55006
Mean x −2.683
Mean y 0.2187
Std Dev x 24.76
Std Dev y 7.739
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
40
30
20
10
0

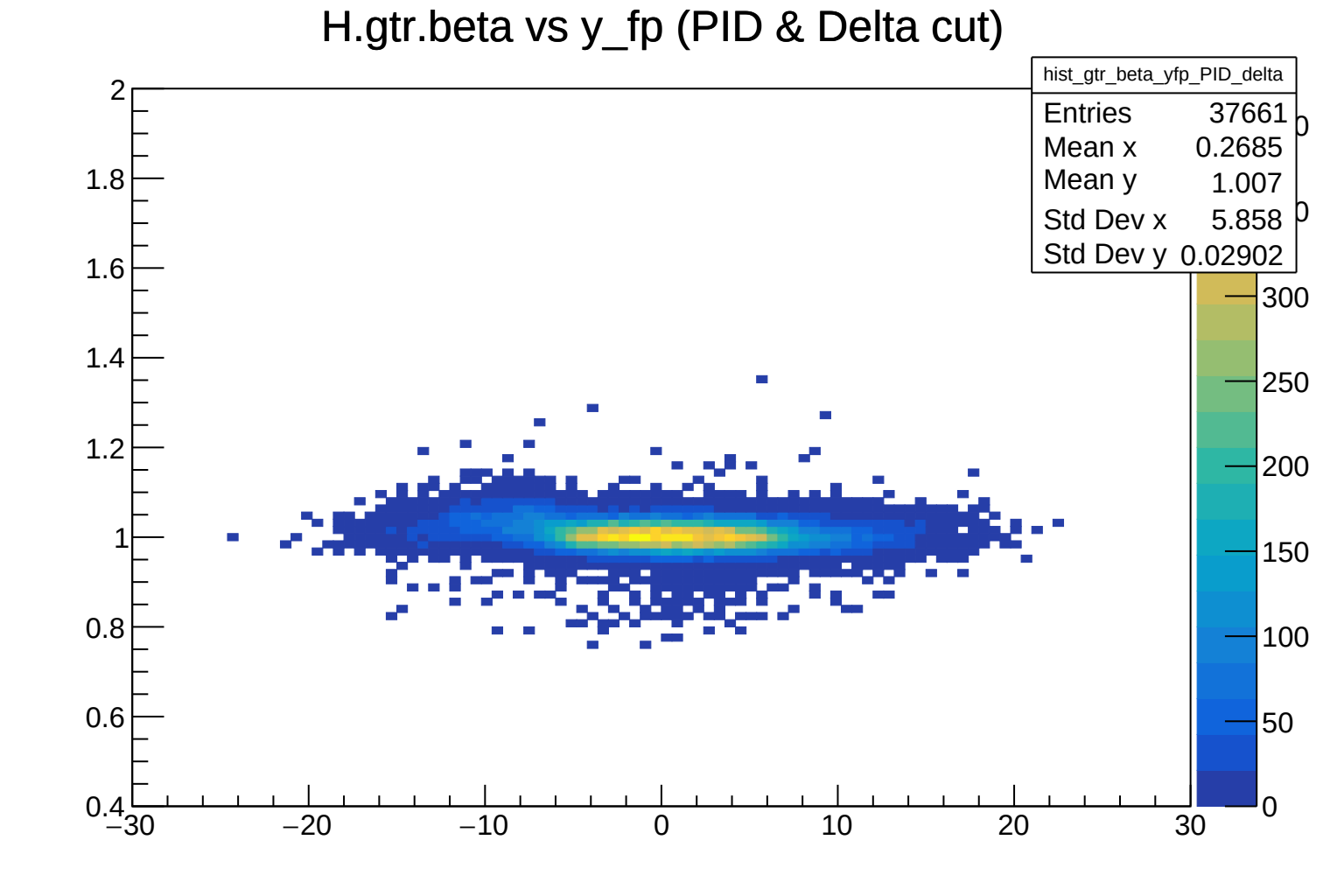

H.gtr.beta vs x_fp (PID cut)
hist_gtr_beta_xfp_PID
Entries 55006
Mean x −2.657
Mean y 1.009
Std Dev x 24.75
Std Dev y 0.03171
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−50
−40
−30
−20
−10
0
10
20
30
40
50
140
120
100
80
60
40
20
0

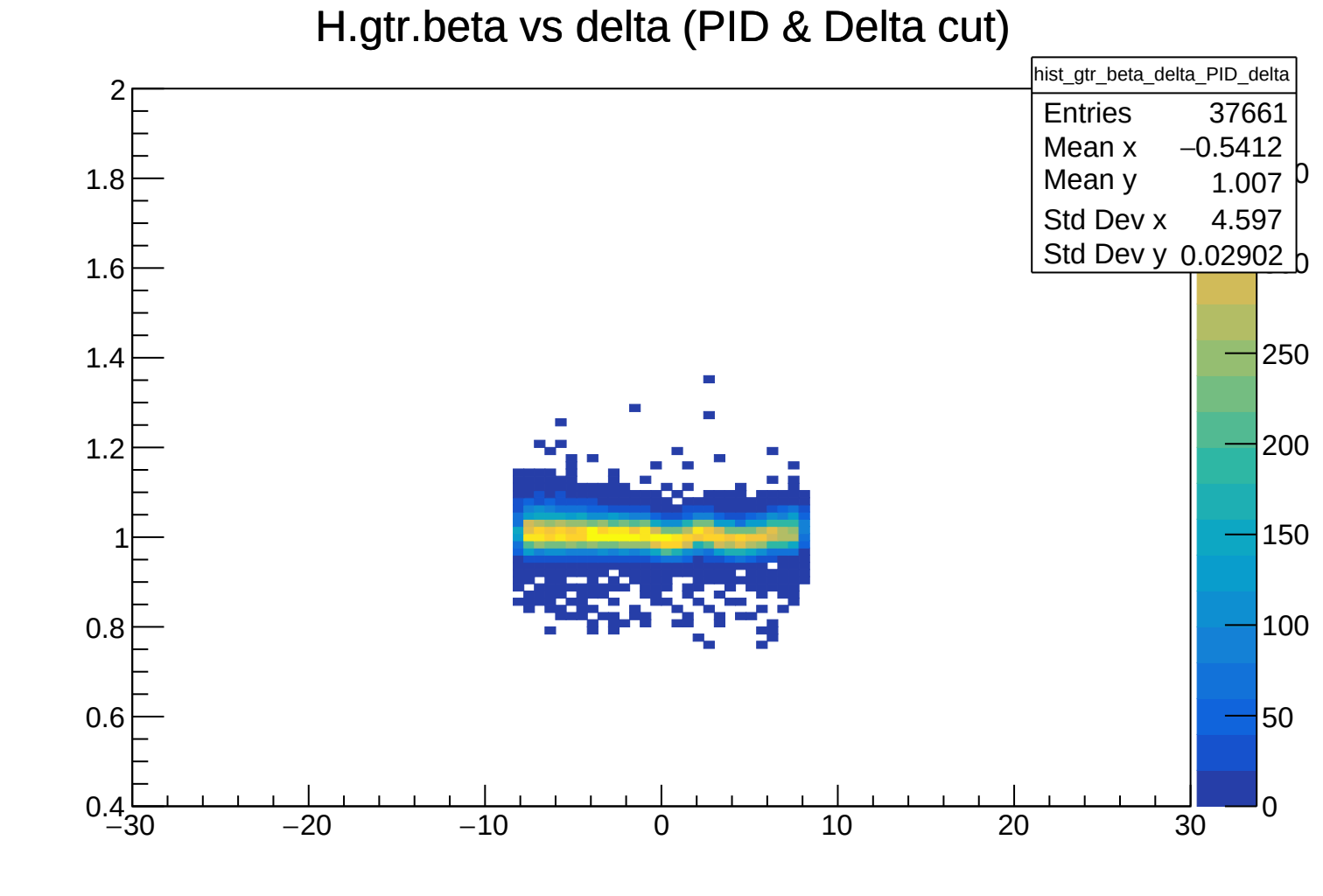

H.gtr.beta vs y_fp (PID cut)
hist_gtr_beta_yfp_PID
Entries 55006
Mean x 0.2191
Mean y 1.009
Std Dev x 7.738
Std Dev y 0.03171
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
350
300
250
200
150
100
50
0


H.gtr.beta vs delta (PID cut)
hist_gtr_beta_delta_PID
Entries 55006
Mean x −0.3632
Mean y 1.009
Std Dev x 6.848
Std Dev y 0.03169
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
250
200
150
100
50
0


focal plane (PID & Delta cut)
hist_yfp_xfp_PID_delta
Entries 37661
Mean x −2.373
Mean y 0.2667
Std Dev x 17.3
Std Dev y 5.859
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 37661
Mean x −2.366
Mean y 1.007
Std Dev x 17.3
Std Dev y 0.02902
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
140
120
100
80
60
40
20
0


H.gtr.beta vs y_fp (PID & Delta cut)
hist_gtr_beta_yfp_PID_delta
Entries 37661
Mean x 0.2685
Mean y 1.007
Std Dev x 5.858
Std Dev y 0.02902
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 37661
Mean x −0.5412
Mean y 1.007
Std Dev x 4.597
Std Dev y 0.02902
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
250
200
150
100
50
0