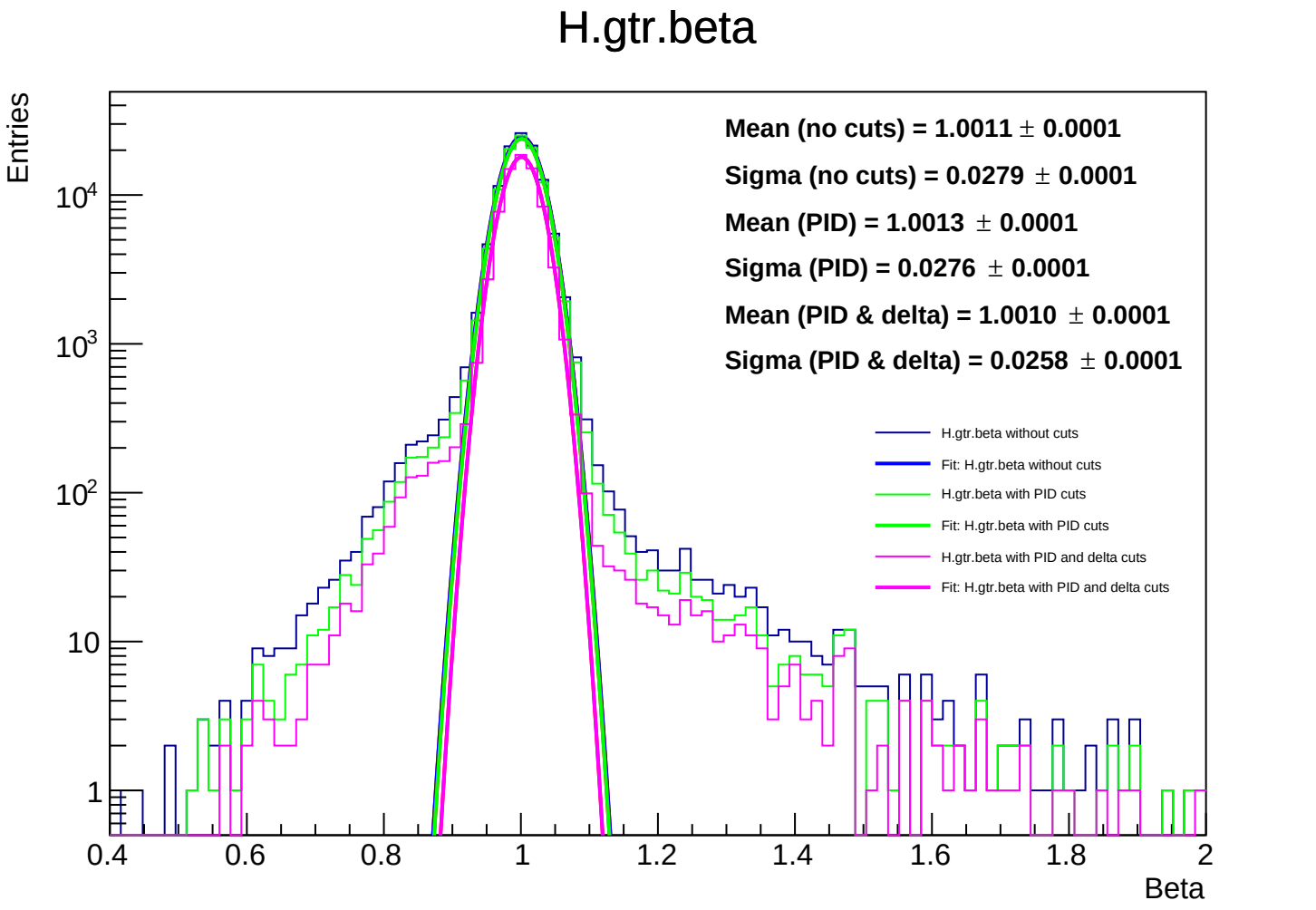
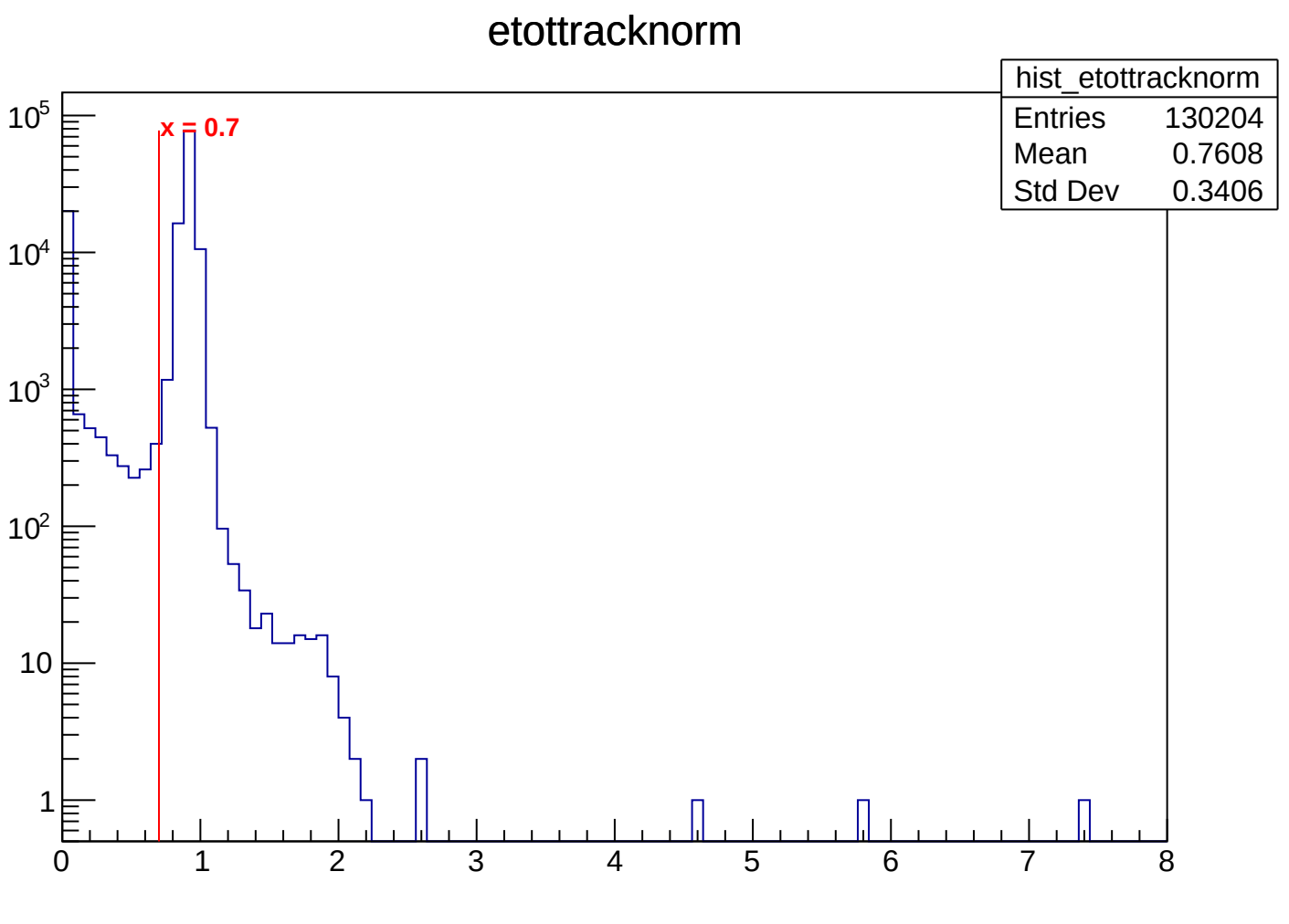
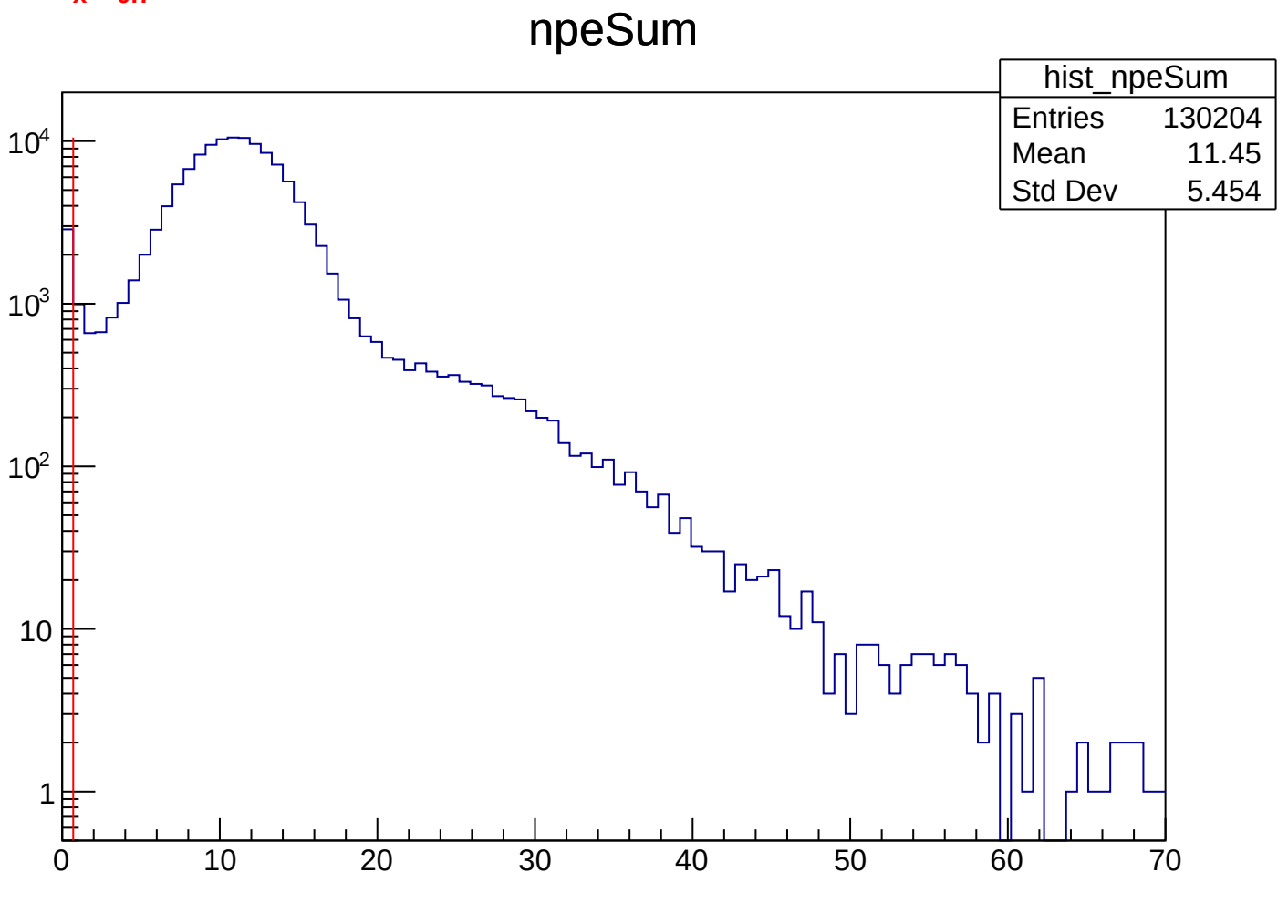
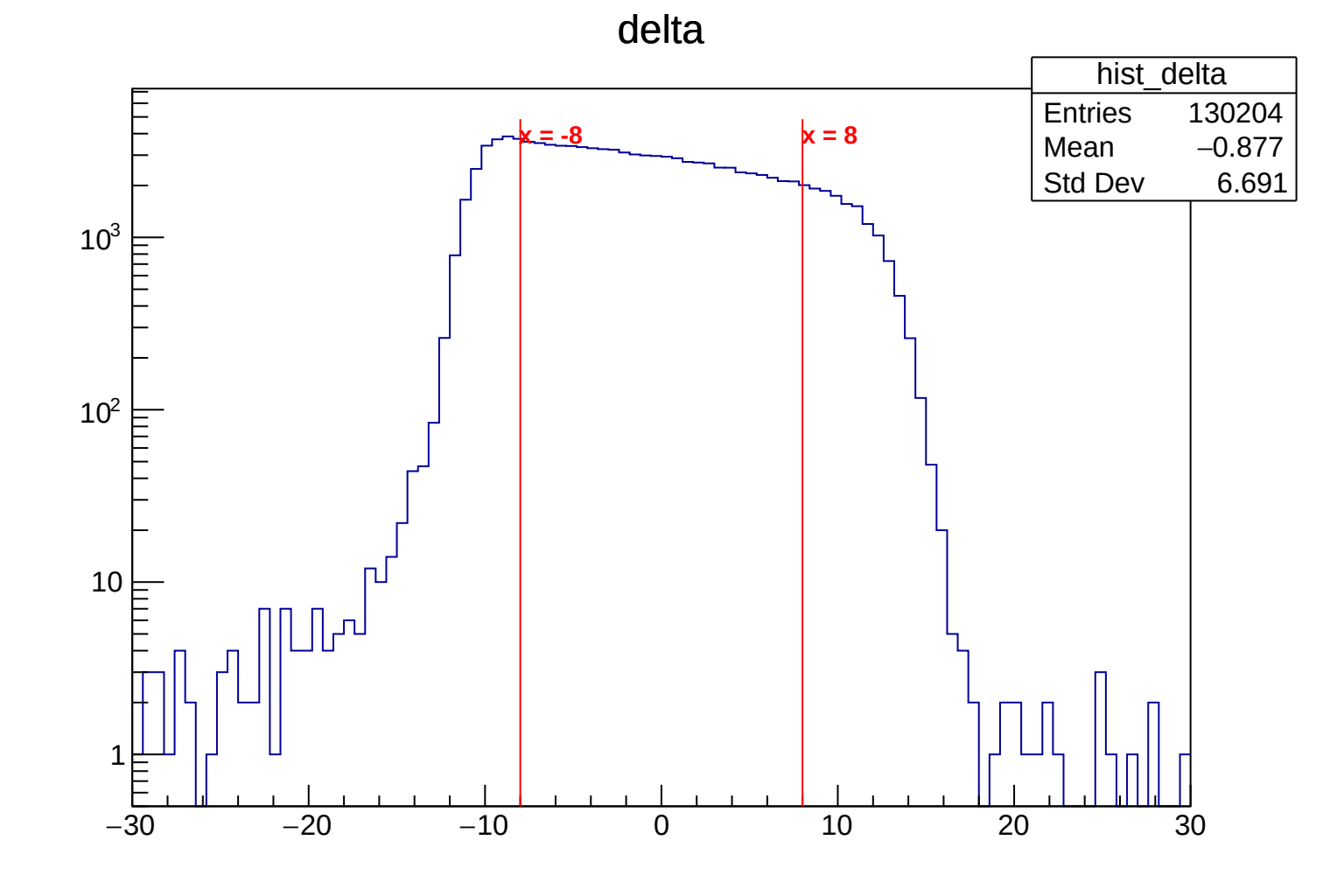
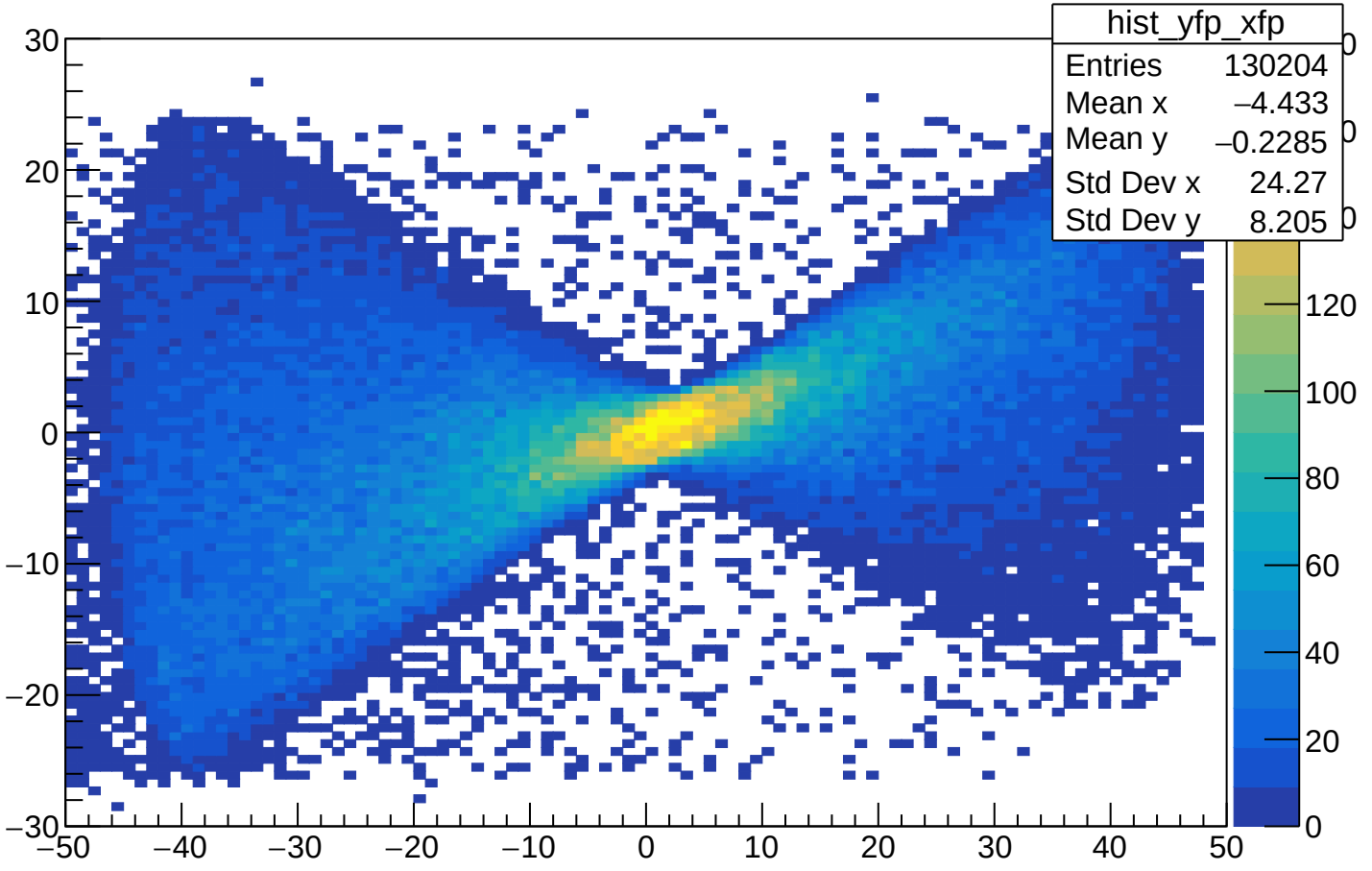
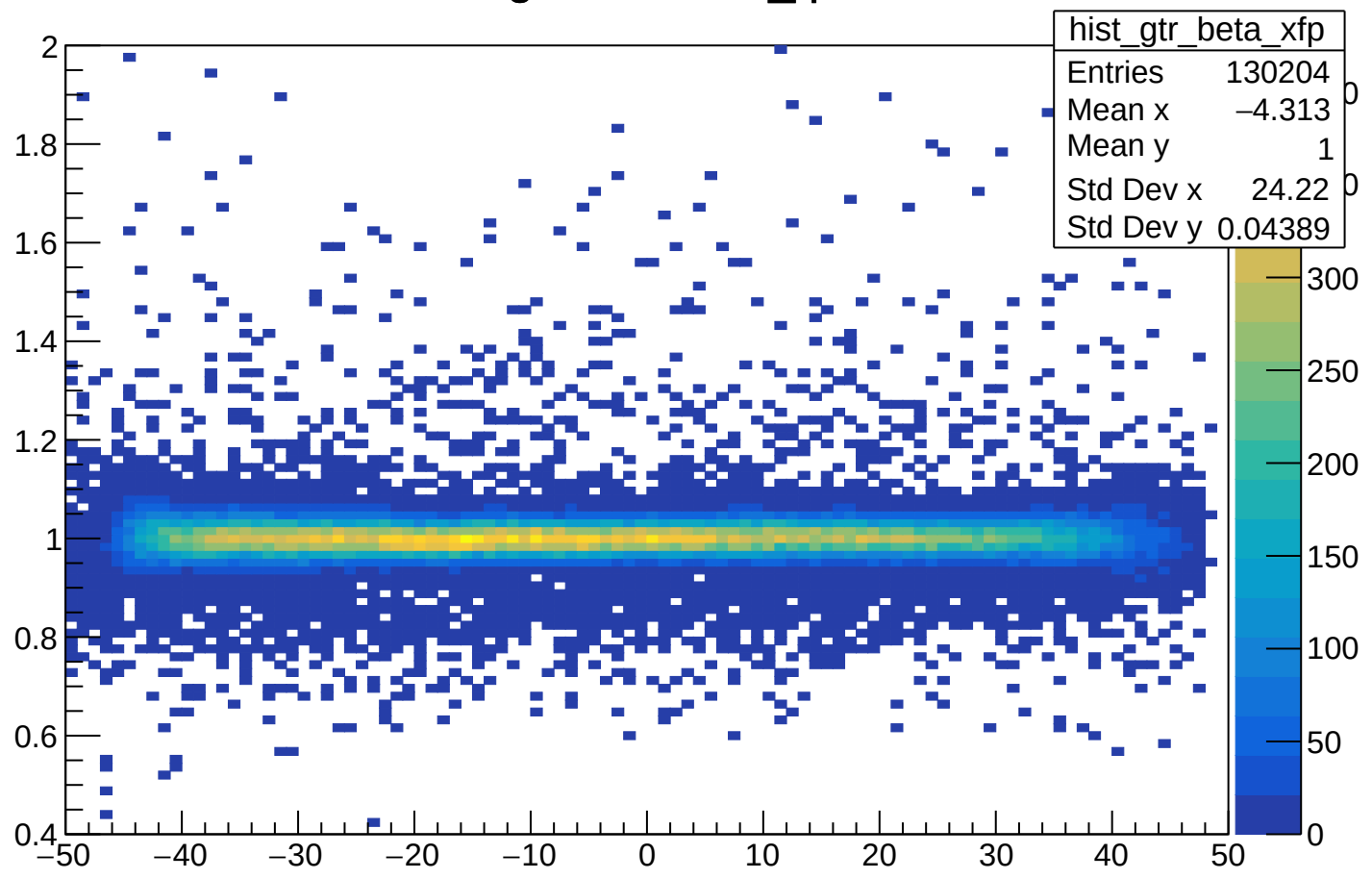

H.gtr.beta
Entries
Beta
Mean (no cuts) = 1.0011 ± 0.0001
Sigma (no cuts) = 0.0279 ± 0.0001
Mean (PID) = 1.0013 ± 0.0001
Sigma (PID) = 0.0276 ± 0.0001
Mean (PID & delta) = 1.0010 ± 0.0001
Sigma (PID & delta) = 0.0258 ± 0.0001
H.gtr.beta without cuts
Fit: H.gtr.beta without cuts
H.gtr.beta with PID cuts
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

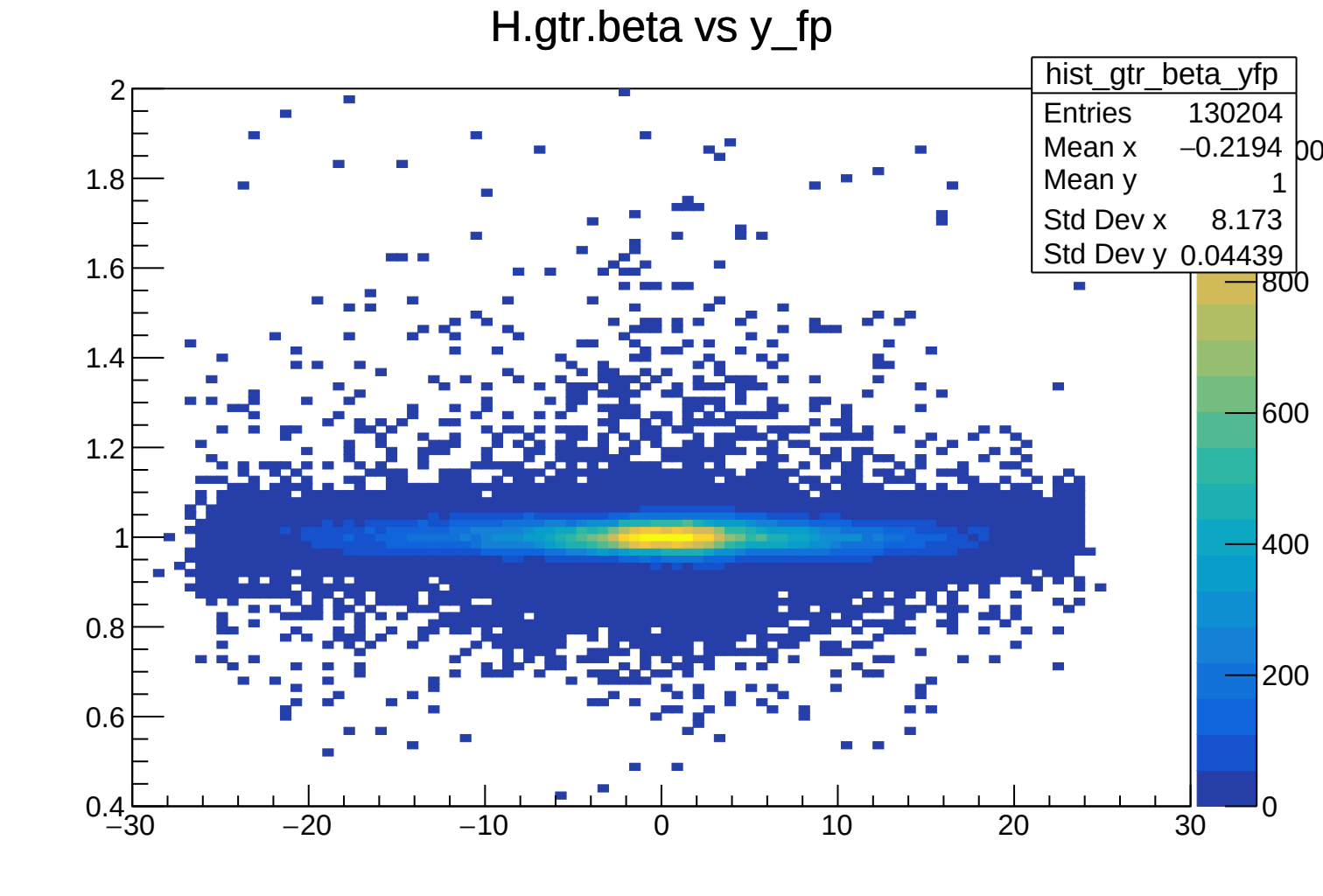

etottracknorm
hist_etottracknorm
Entries 130204
Mean 0.7608
Std Dev 0.3406
x = 0.7
10^5
10^4
10^3
10^2
10
1
0
1
2
3
4
5
6
7
8

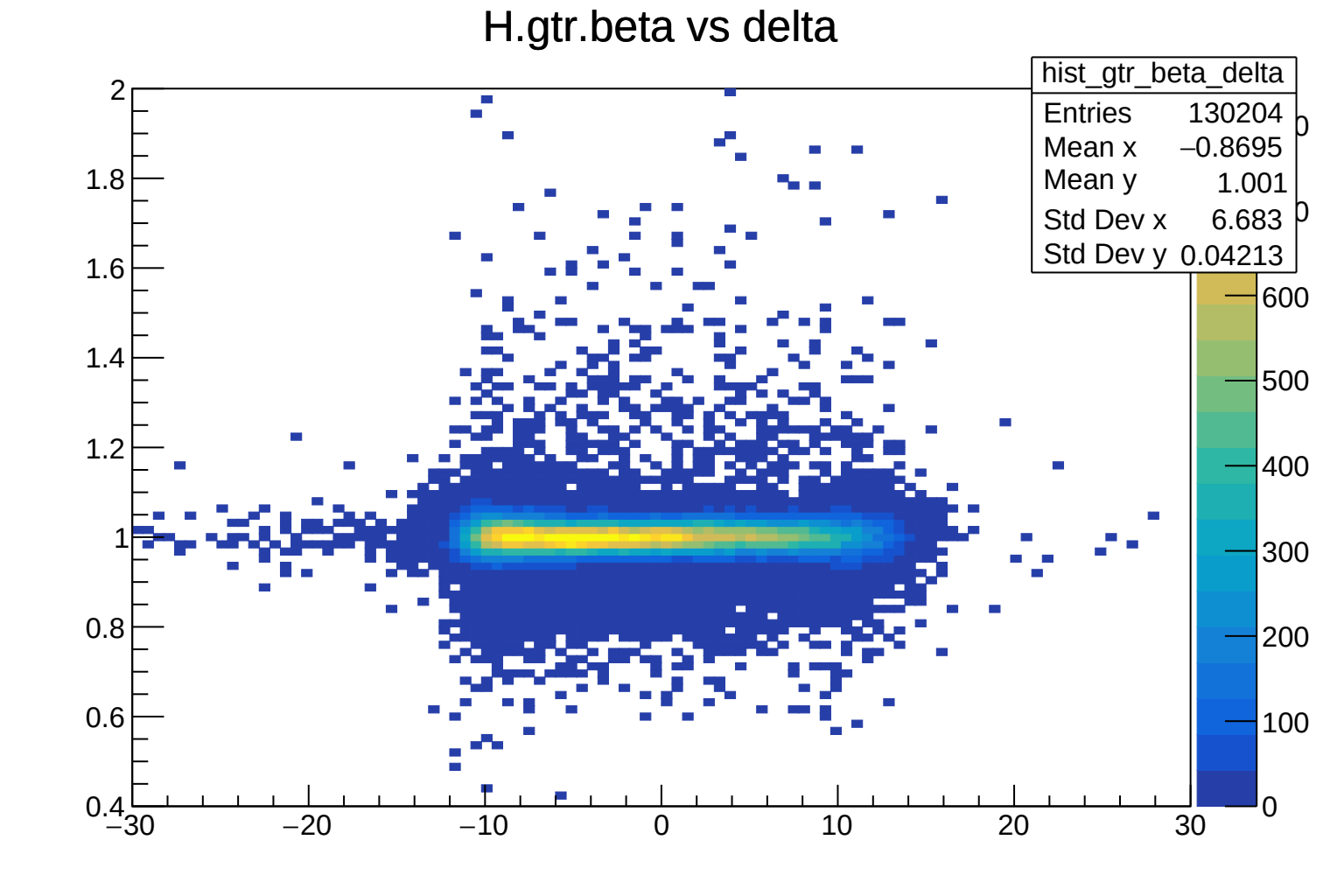

npeSum
hist_npeSum
Entries 130204
Mean 11.45
Std Dev 5.454
10^4
10^3
10^2
10
1
0
10
20
30
40
50
60
70

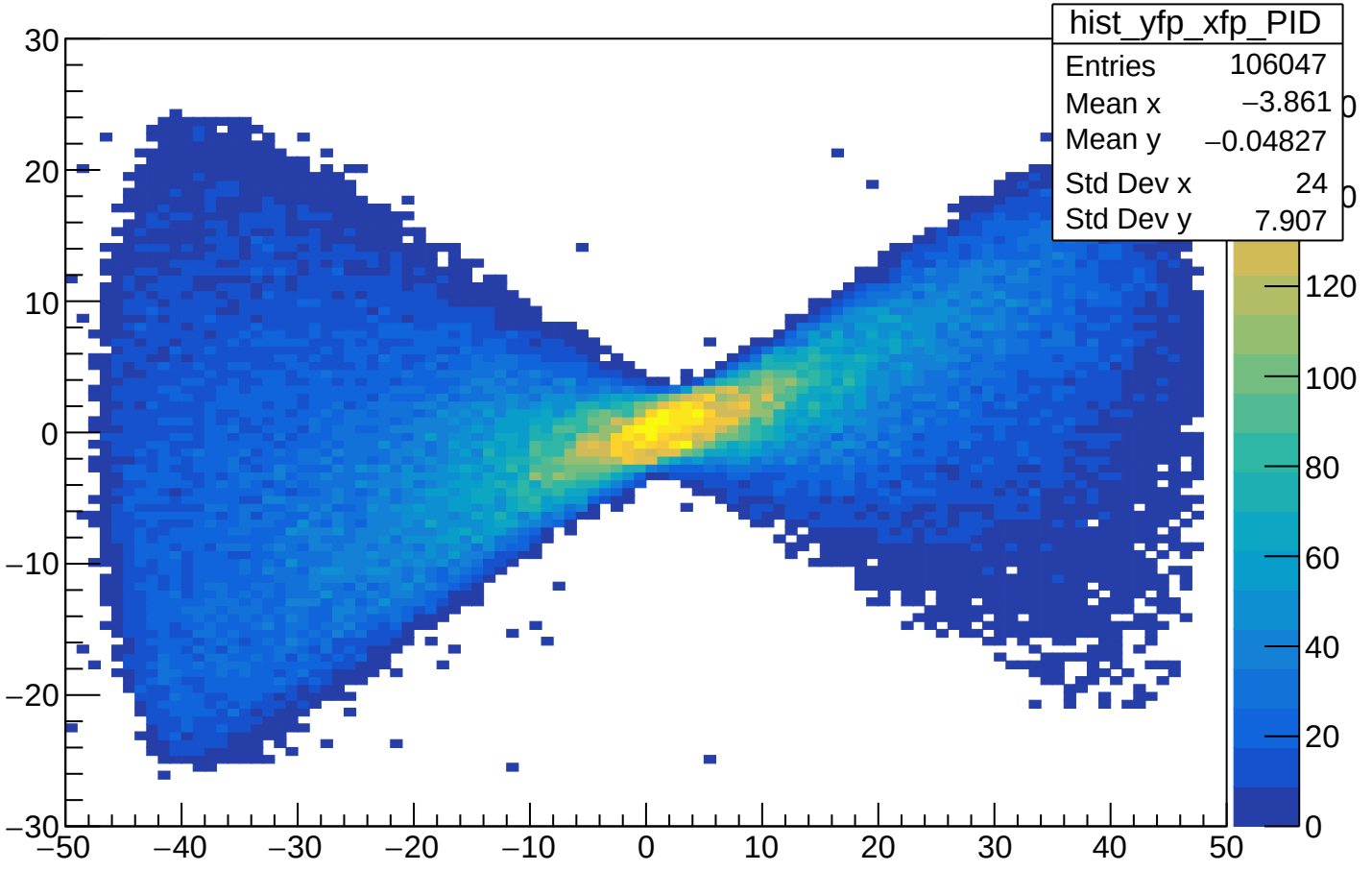

delta
hist_delta
Entries 130204
Mean −0.877
Std Dev 6.691
x = -8
x = 8
10^3
10^2
10
1
−30
−20
−10
0
10
20
30

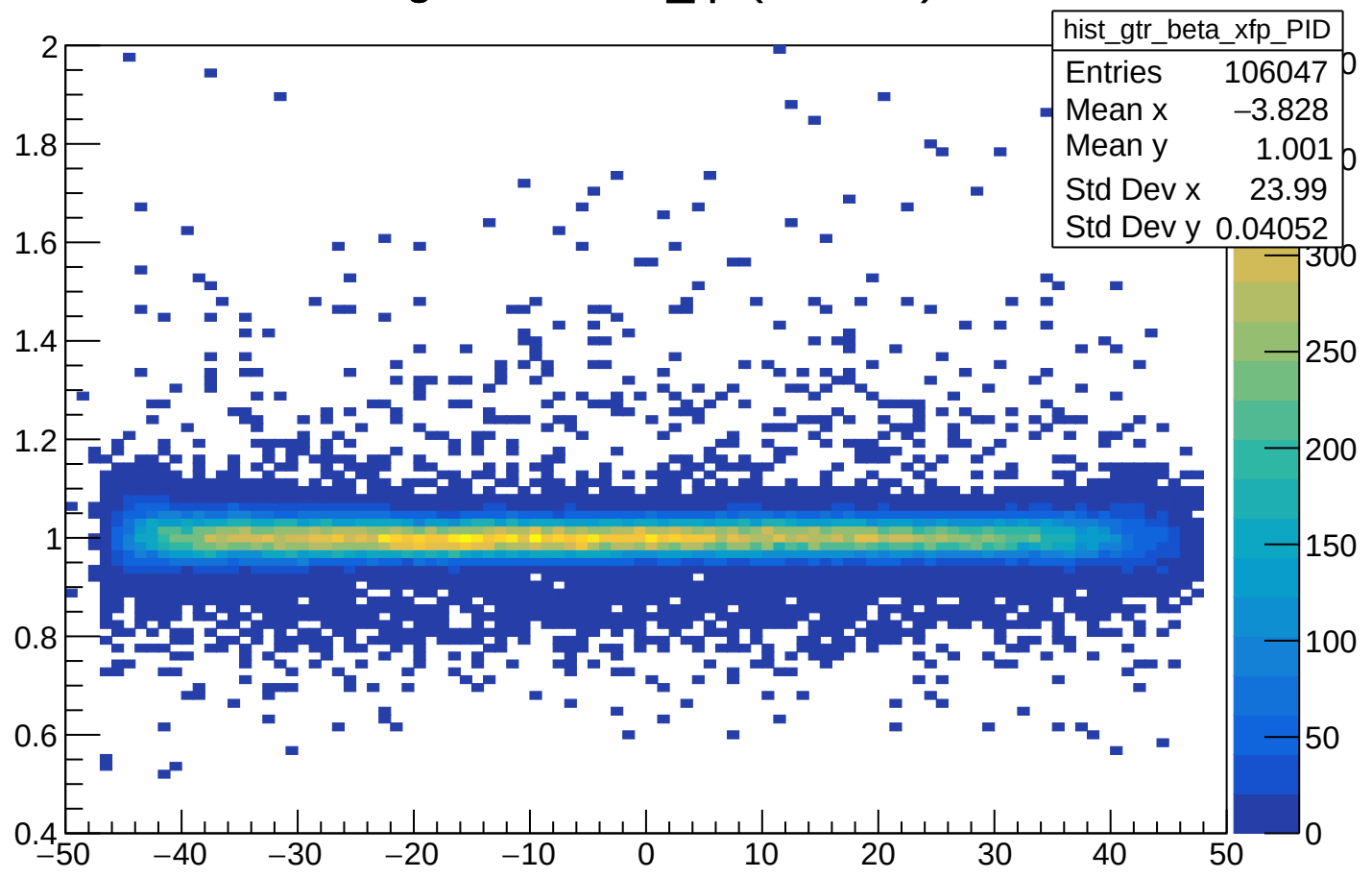

focal plane
hist_yfp_xfp
Entries 130204
Mean x −4.433
Mean y −0.2285
Std Dev x 24.27
Std Dev y 8.205
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
120
100
80
60
40
20
0

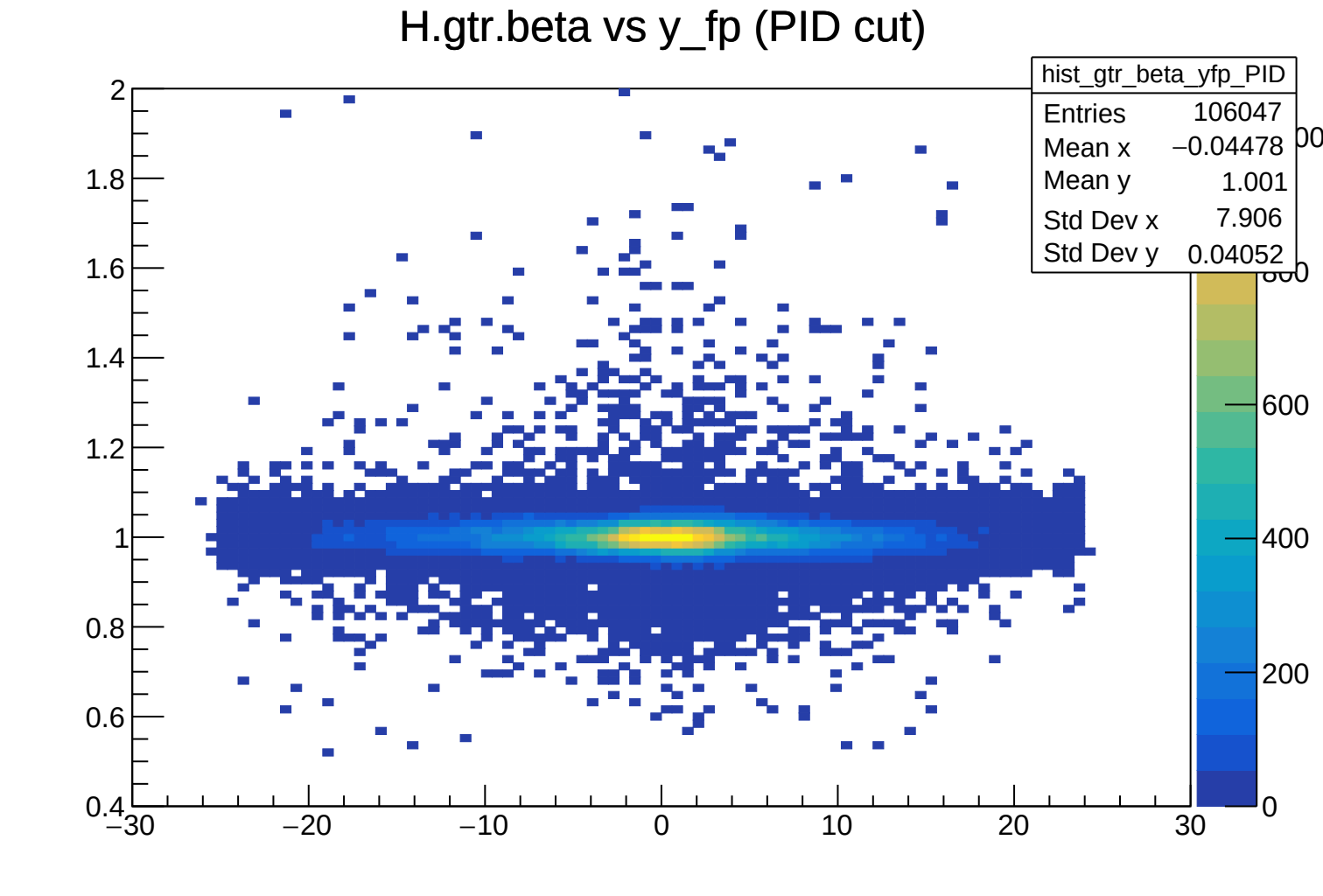

H.gtr.beta vs x_fp
hist_gtr_beta_xfp
Entries 130204
Mean x –4.313
Mean y 1
Std Dev x 24.22
Std Dev y 0.04389
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
–50
–40
–30
–20
–10
0
10
20
30
40
50
300
250
200
150
100
50
0

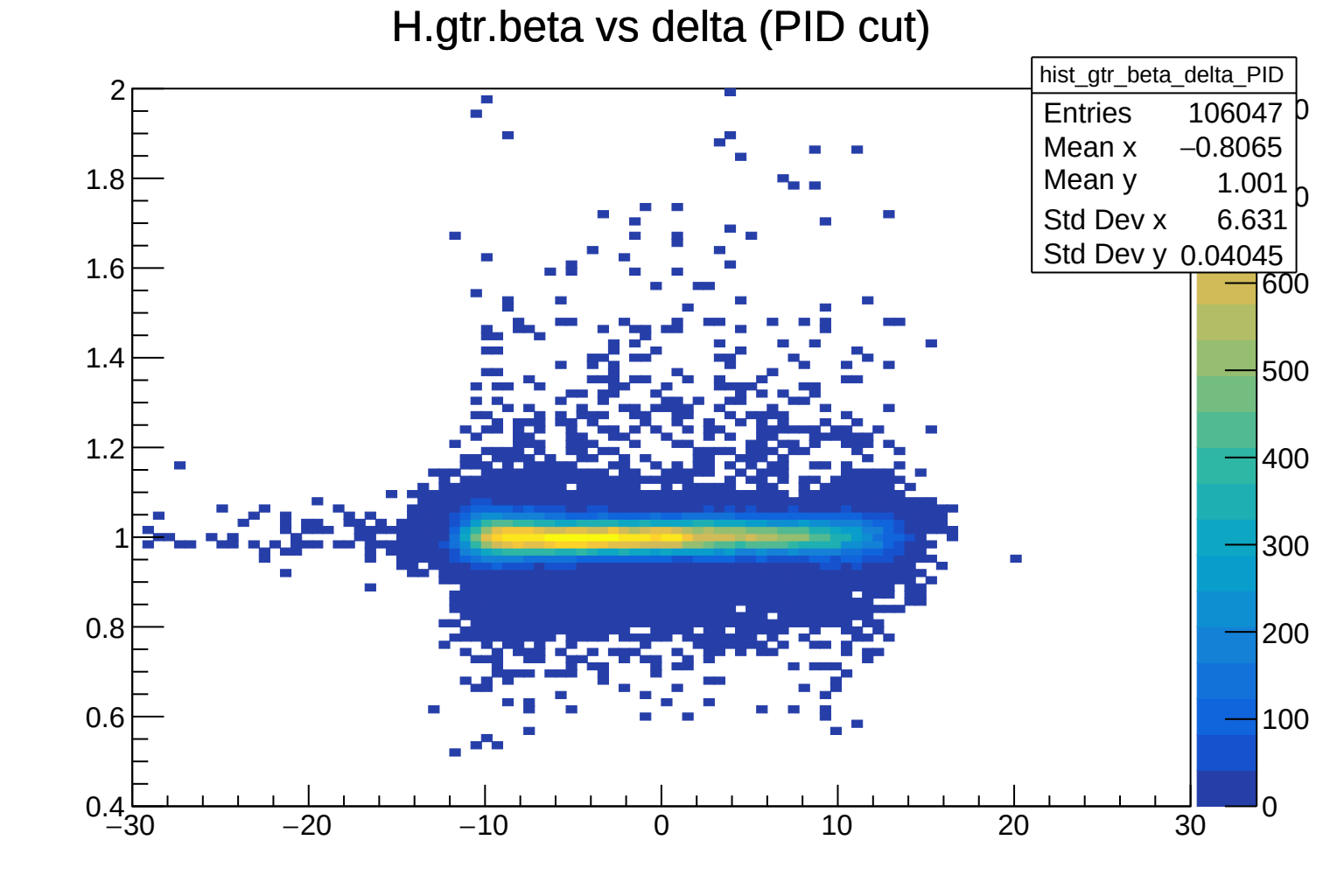

H.gtr.beta vs y_fp
hist_gtr_beta_yfp
Entries 130204
Mean x −0.2194
Mean y 1
Std Dev x 8.173
Std Dev y 0.04439
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
800
600
400
200
0

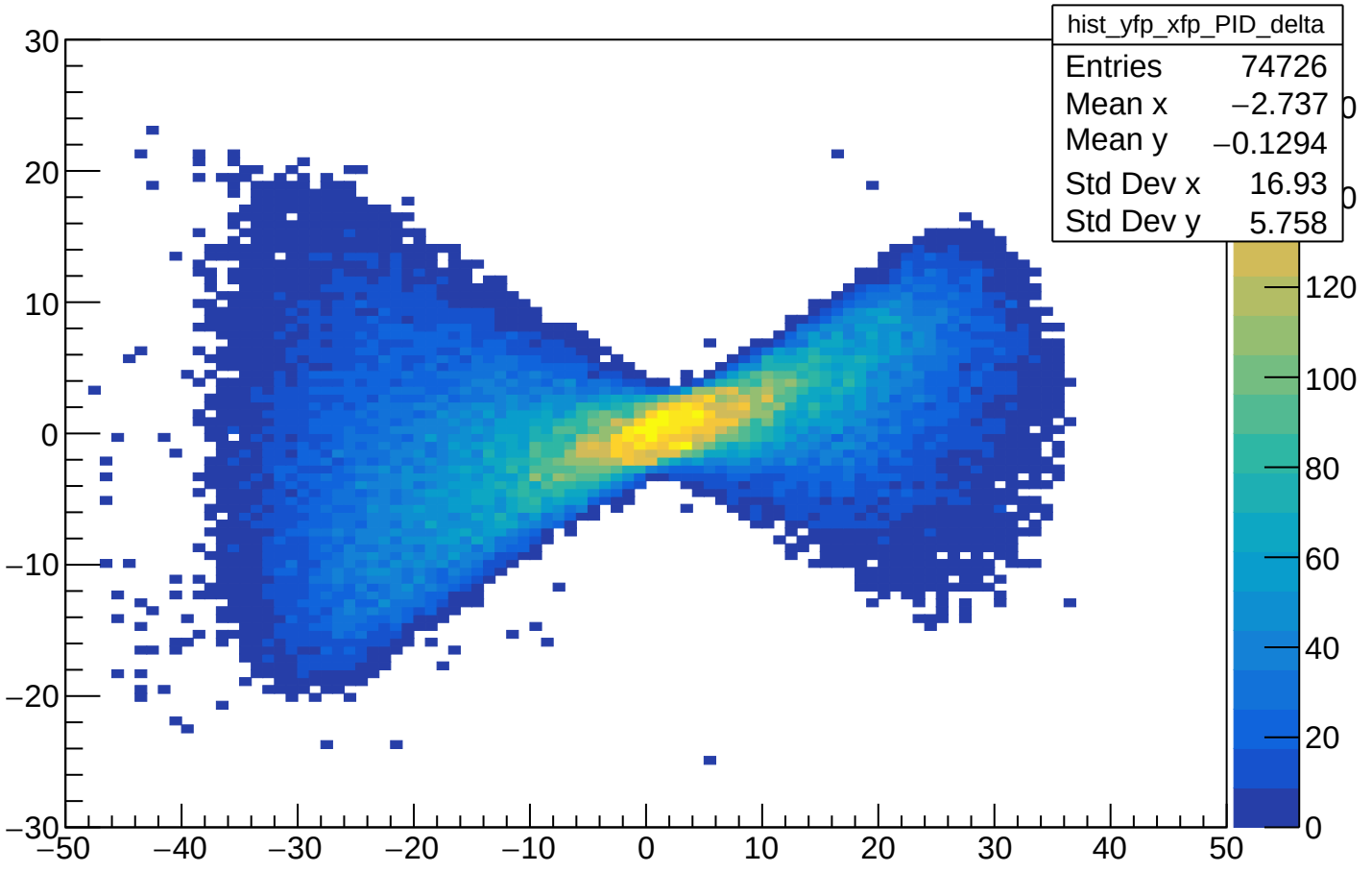

H.gtr.beta vs delta
hist_gtr_beta_delta
Entries 130204
Mean x −0.8695
Mean y 1.001
Std Dev x 6.683
Std Dev y 0.04213
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
600
500
400
300
200
100
0

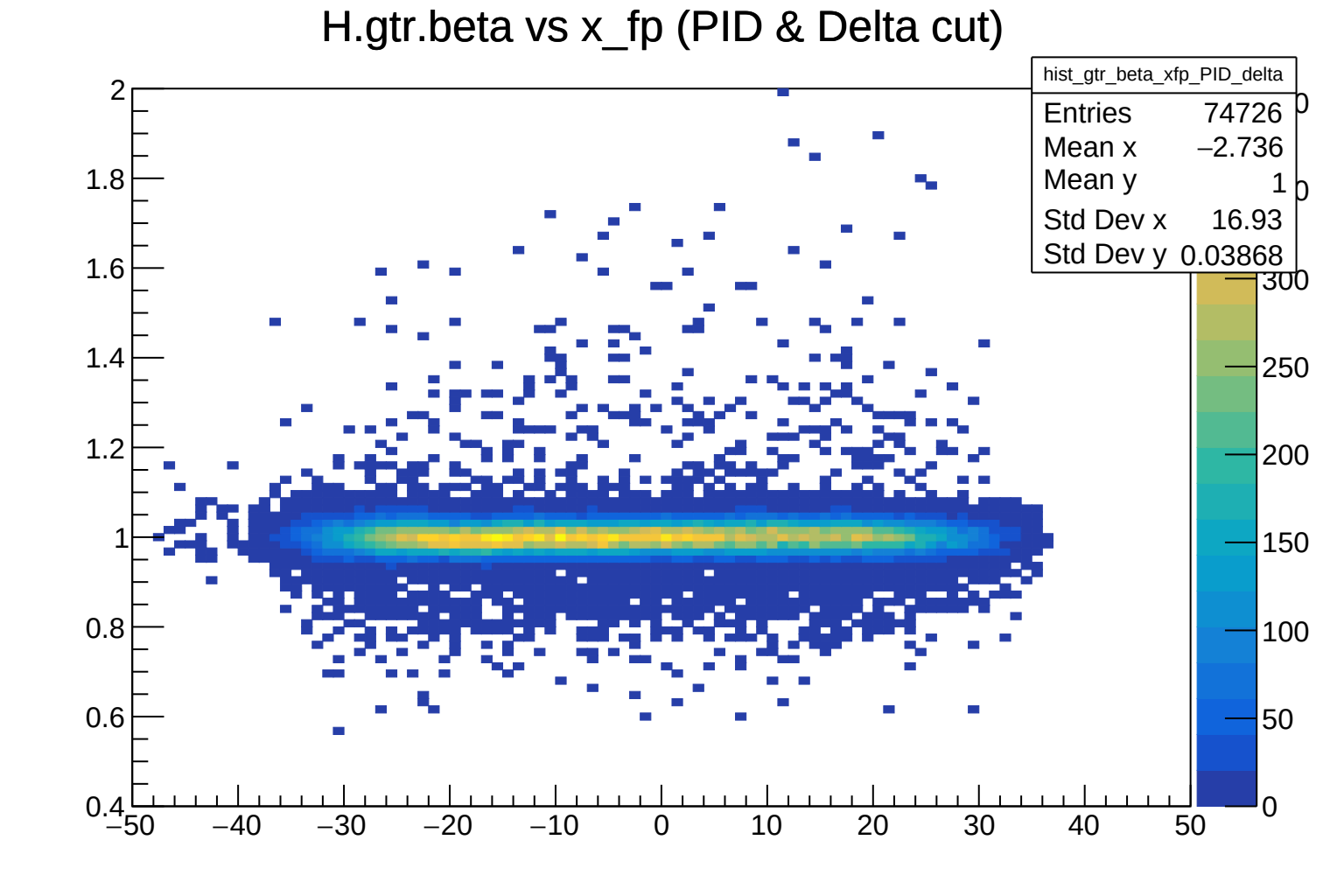

focal plane (PID cut)
hist_yfp_xfp_PID
Entries 106047
Mean x −3.861
Mean y −0.04827
Std Dev x 24
Std Dev y 7.907
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
120
100
80
60
40
20
0

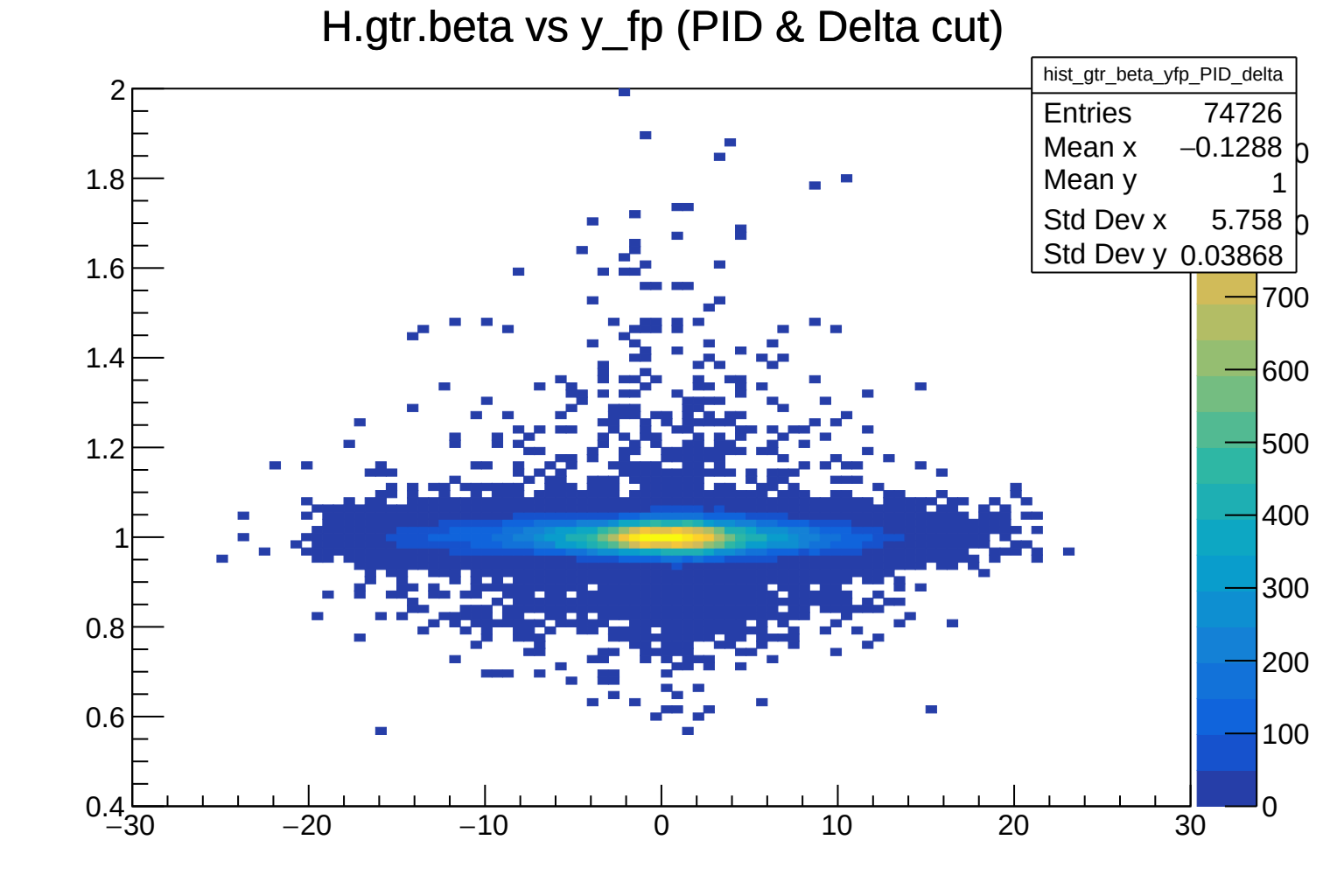

H.gtr.beta vs x_fp (PID cut)
hist_gtr_beta_xfp_PID
Entries 106047
Mean x −3.828
Mean y 1.001
Std Dev x 23.99
Std Dev y 0.04052
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−50
−40
−30
−20
−10
0
10
20
30
40
50
300
250
200
150
100
50
0

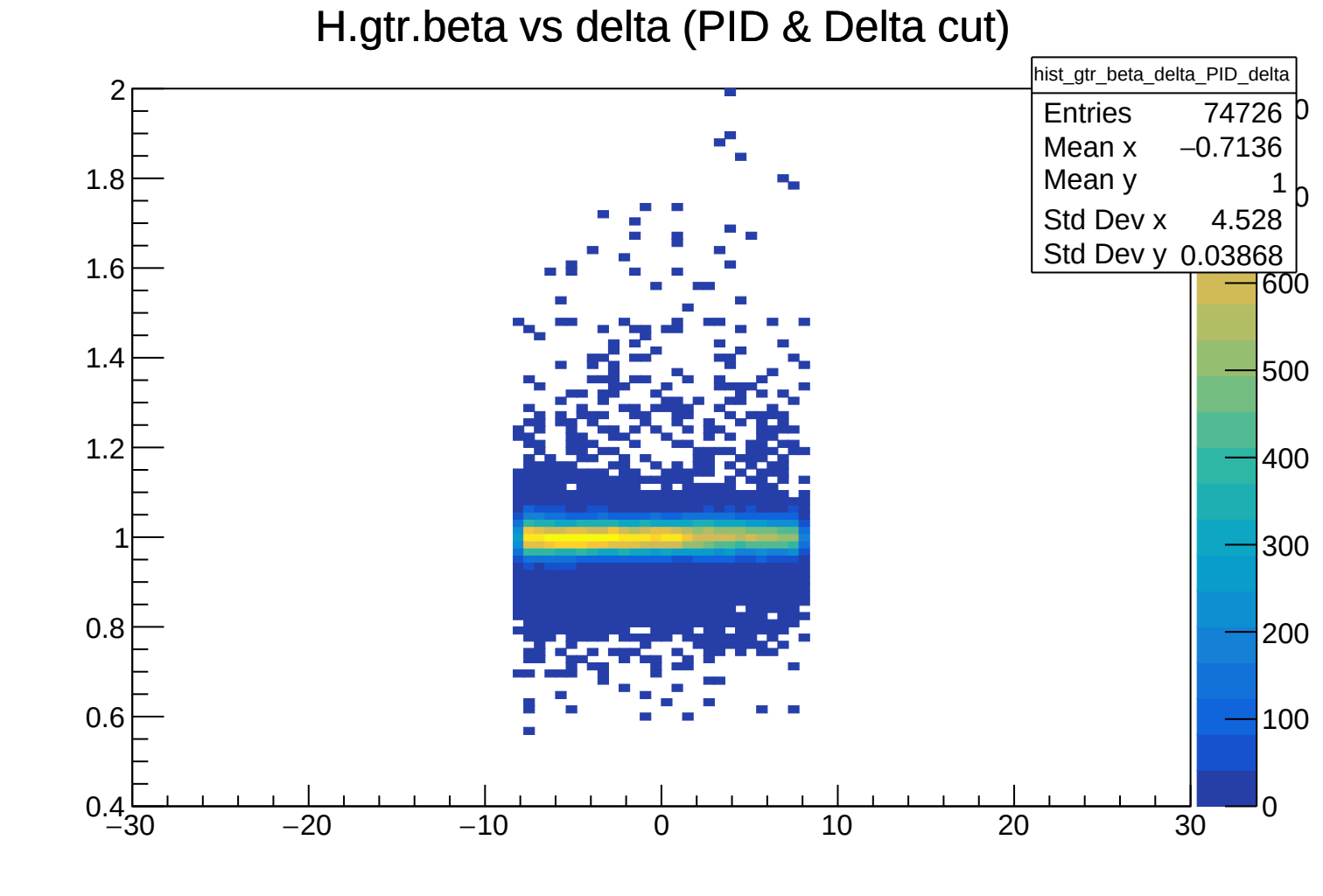

H.gtr.beta vs y_fp (PID cut)
hist_gtr_beta_yfp_PID
Entries 106047
Mean x −0.04478
Mean y 1.001
Std Dev x 7.906
Std Dev y 0.04052
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
600
400
200
0


H.gtr.beta vs delta (PID cut)
hist_gtr_beta_delta_PID
Entries 106047
Mean x −0.8065
Mean y 1.001
Std Dev x 6.631
Std Dev y 0.04045
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 74726
Mean x −2.737
Mean y −0.1294
Std Dev x 16.93
Std Dev y 5.758
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 (PID & Delta cut)
hist_gtr_beta_xfp_PID_delta
Entries 74726
Mean x −2.736
Mean y 1
Std Dev x 16.93
Std Dev y 0.03868
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 (PID & Delta cut)
hist_gtr_beta_yfp_PID_delta
Entries 74726
Mean x −0.1288
Mean y 1
Std Dev x 5.758
Std Dev y 0.03868
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
700
600
500
400
300
200
100
0


H.gtr.beta vs delta (PID & Delta cut)
hist_gtr_beta_delta_PID_delta
Entries 74726
Mean x −0.7136
Mean y 1
Std Dev x 4.528
Std Dev y 0.03868
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