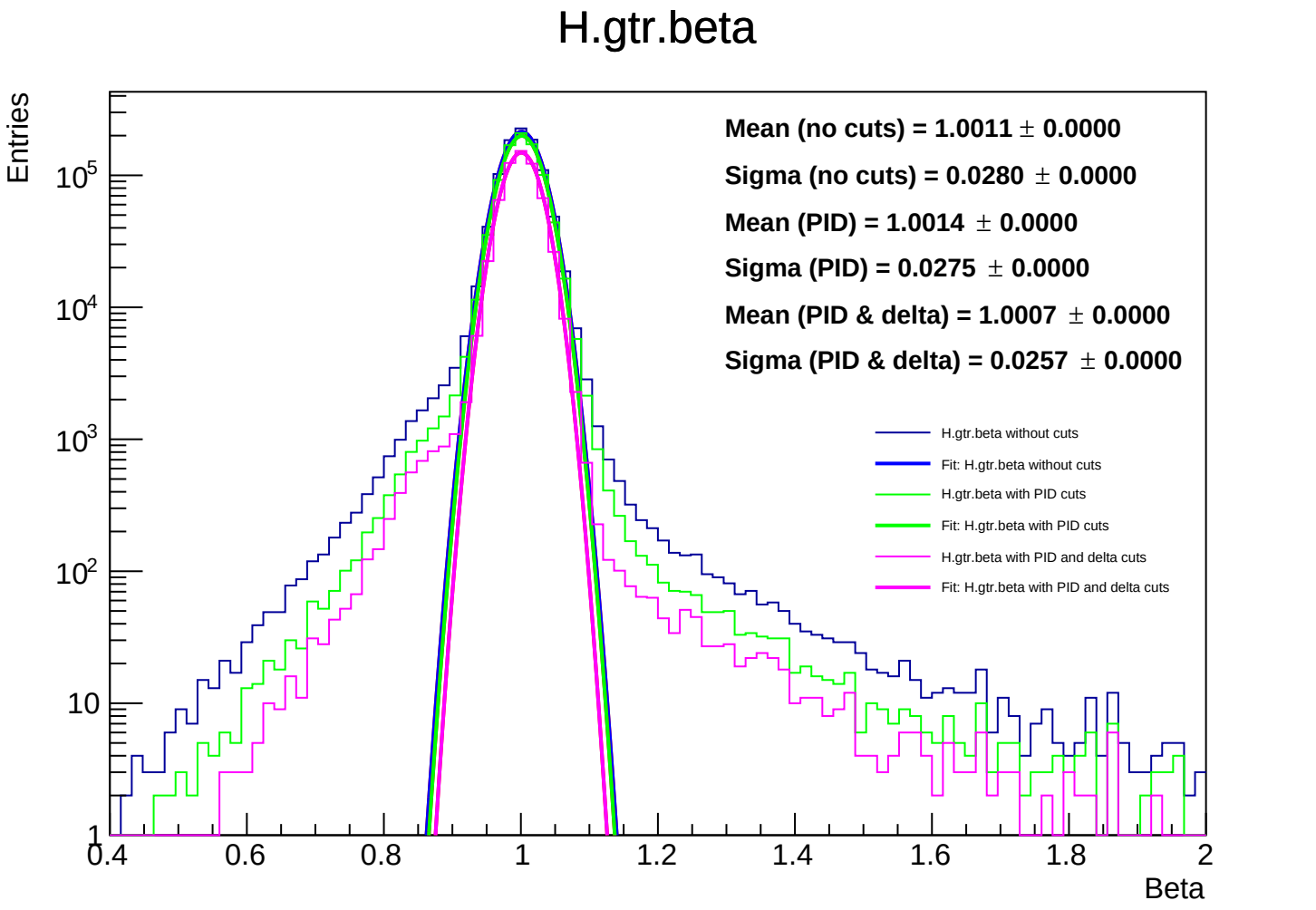
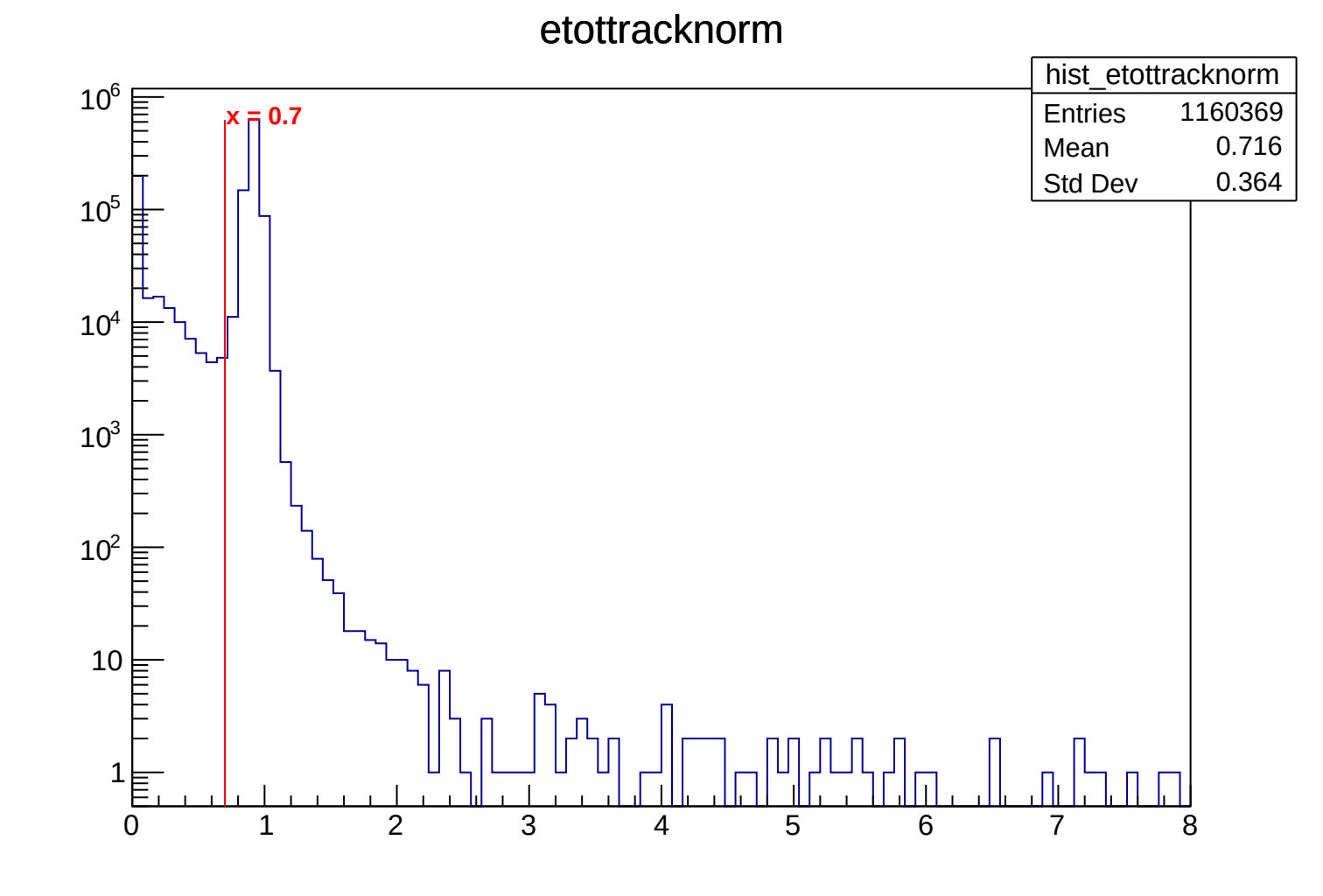
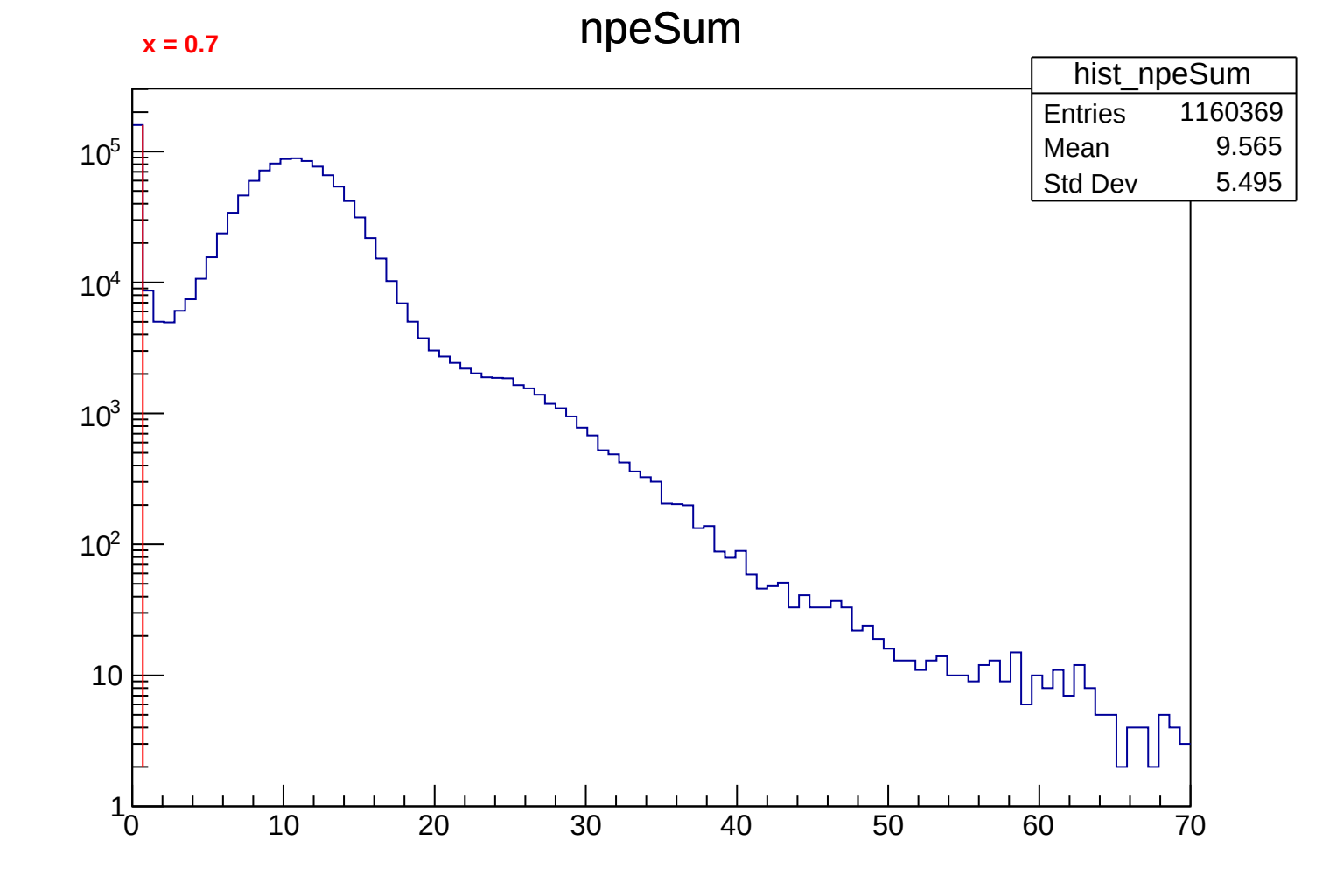
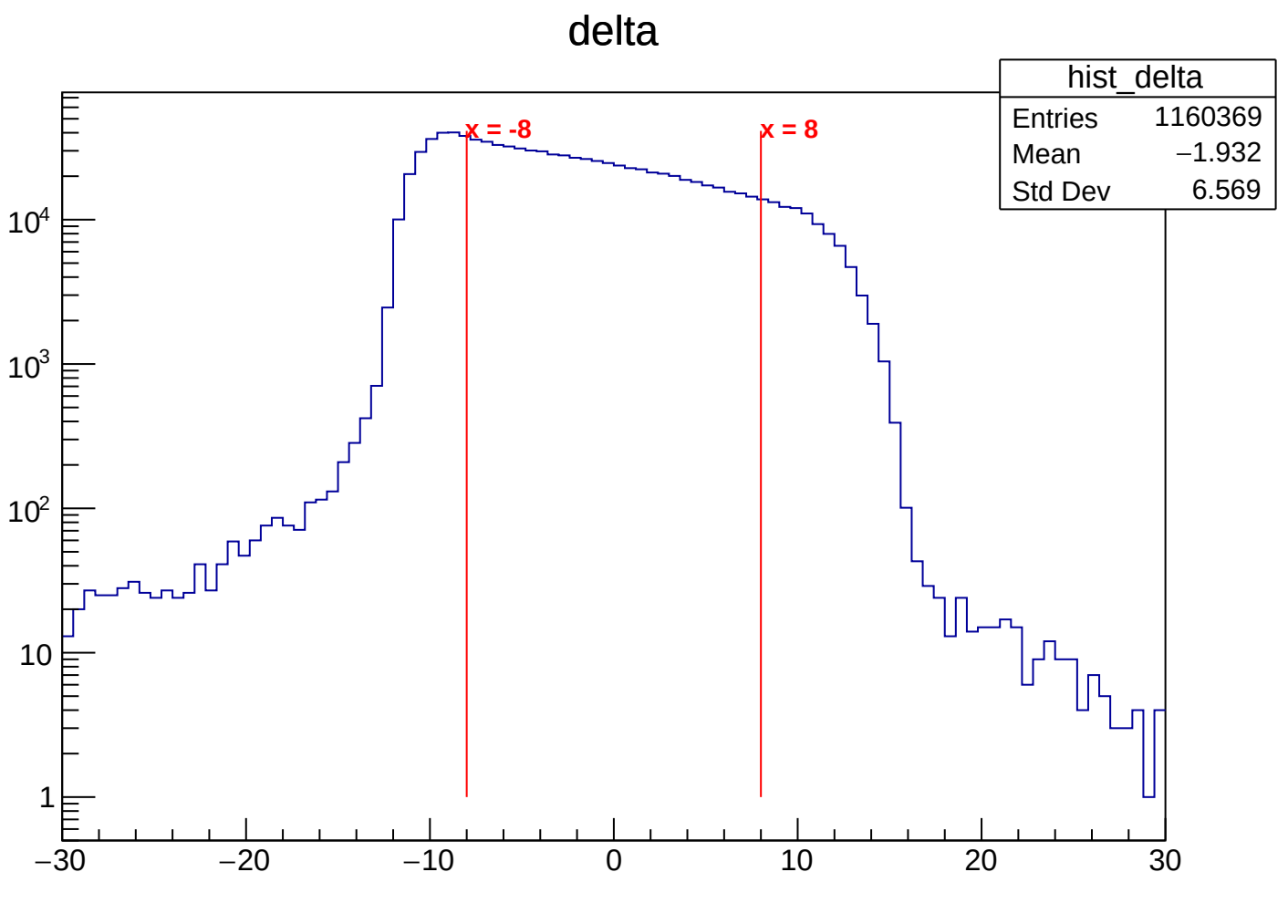
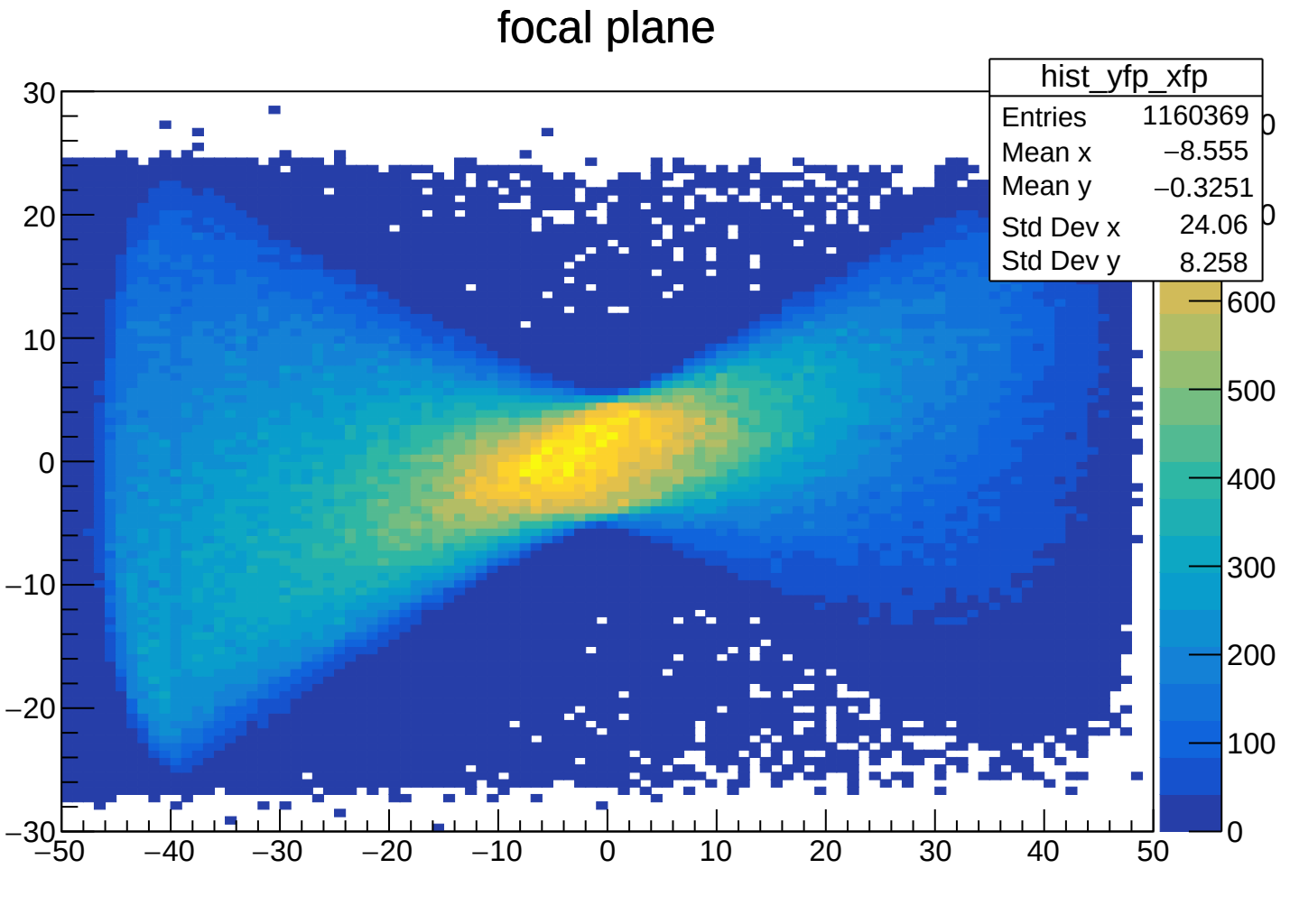
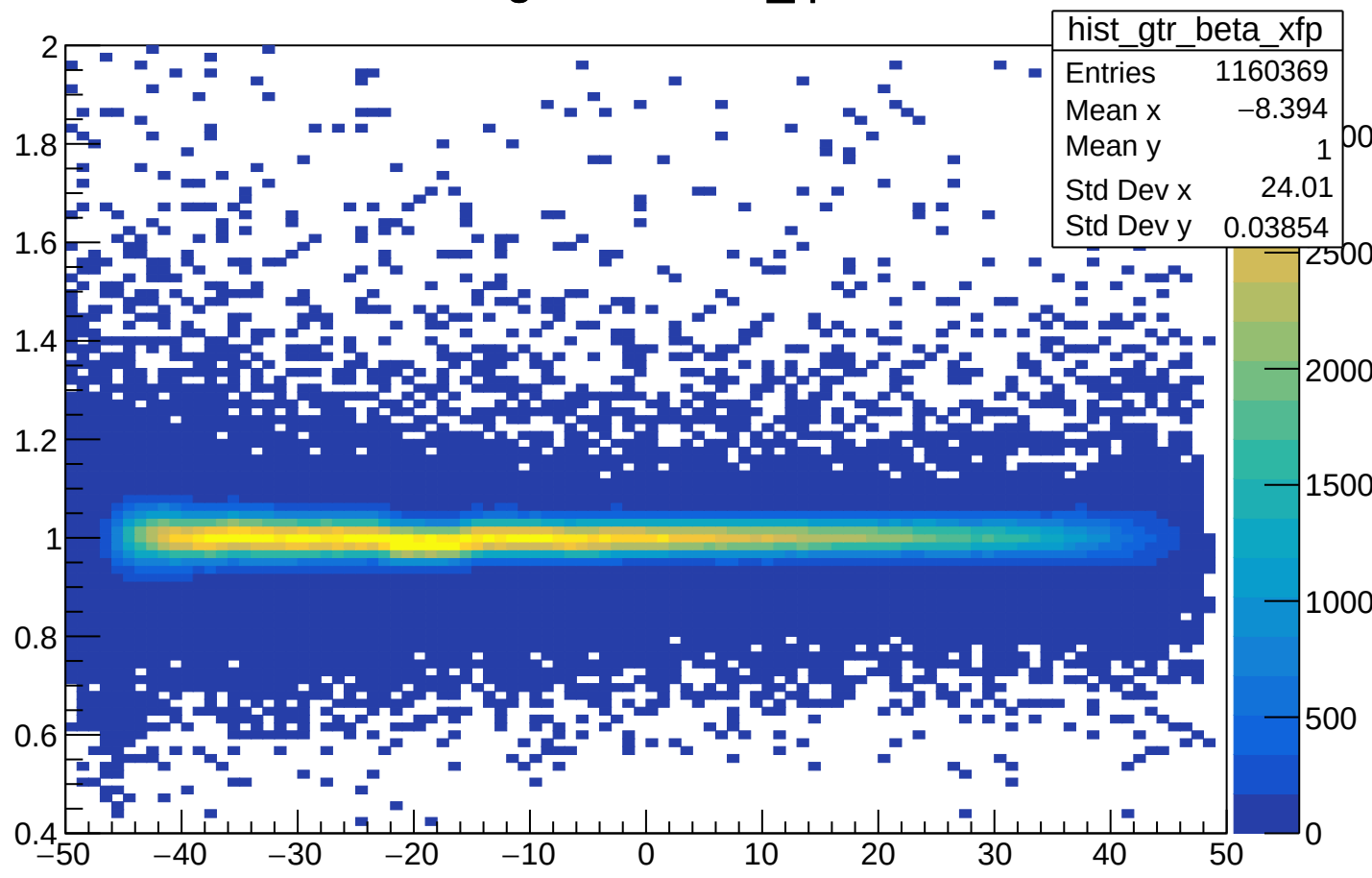

H.gtr.beta
Entries
Beta
Mean (no cuts) = 1.0011 ± 0.0000
Sigma (no cuts) = 0.0280 ± 0.0000
Mean (PID) = 1.0014 ± 0.0000
Sigma (PID) = 0.0275 ± 0.0000
Mean (PID & delta) = 1.0007 ± 0.0000
Sigma (PID & delta) = 0.0257 ± 0.0000
H.gtr.beta without cuts
Fit: H.gtr.beta without cuts
H.gtr.beta with PID cuts
Fit: H.gtr.beta with PID cuts
H.gtr.beta with PID and delta cuts
Fit: H.gtr.beta with PID and delta cuts

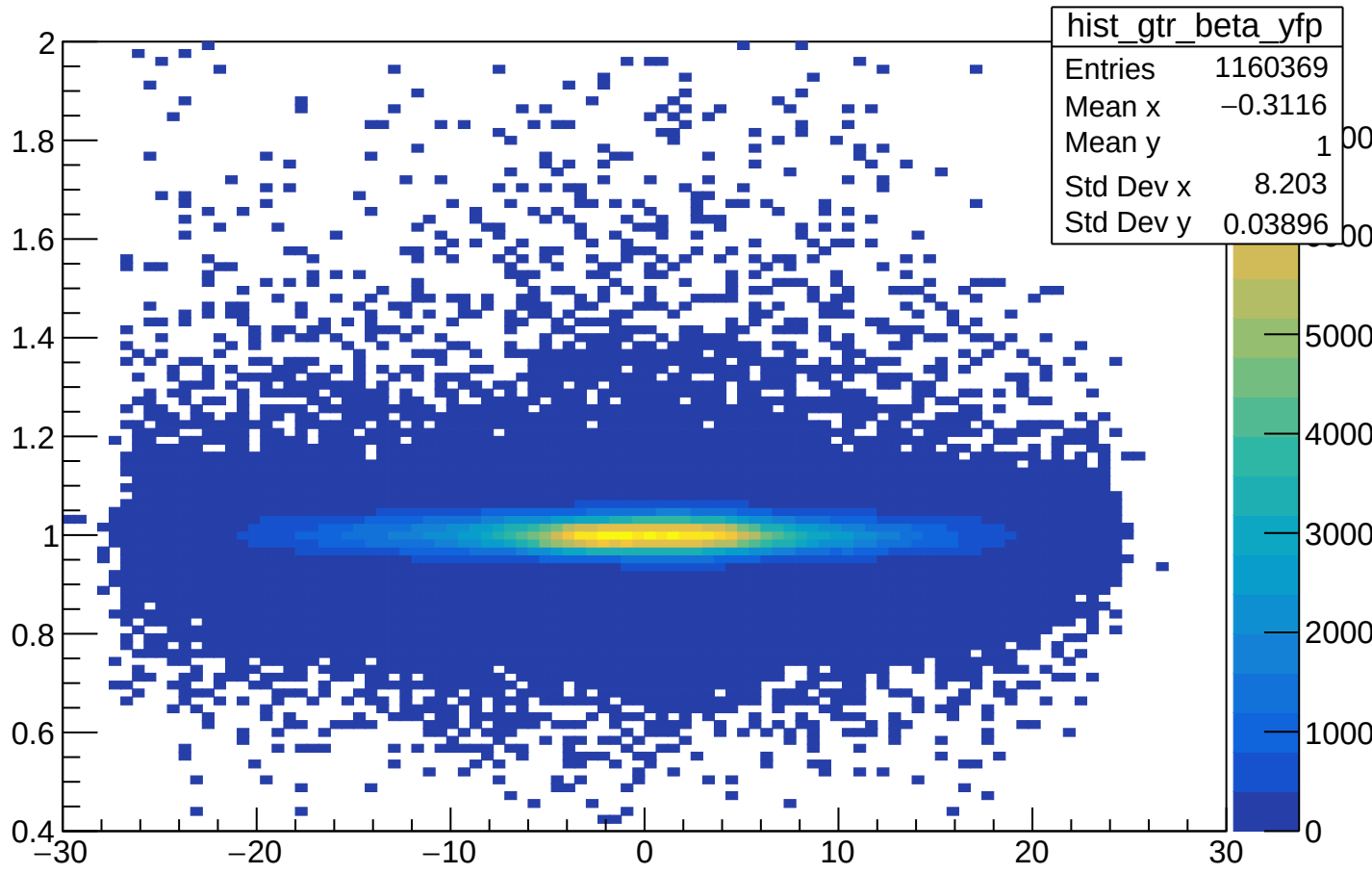

etottracknorm
hist_etottracknorm
Entries 1160369
Mean 0.716
Std Dev 0.364
x = 0.7
10^6
10^5
10^4
10^3
10^2
10
1
0
1
2
3
4
5
6
7
8

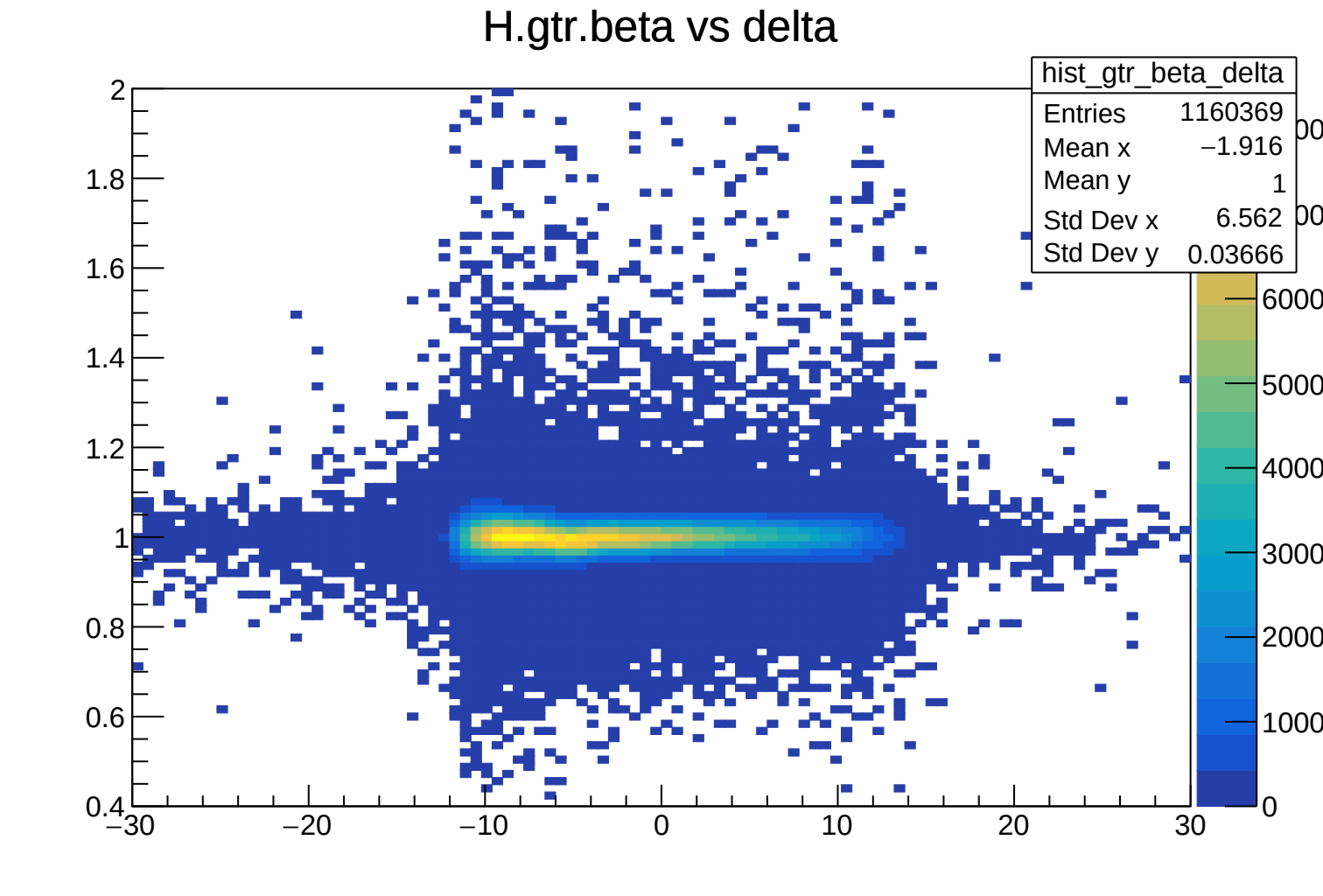

npeSum
x = 0.7
hist_npeSum
Entries 1160369
Mean 9.565
Std Dev 5.495
10^5
10^4
10^3
10^2
10
1
0
10
20
30
40
50
60
70

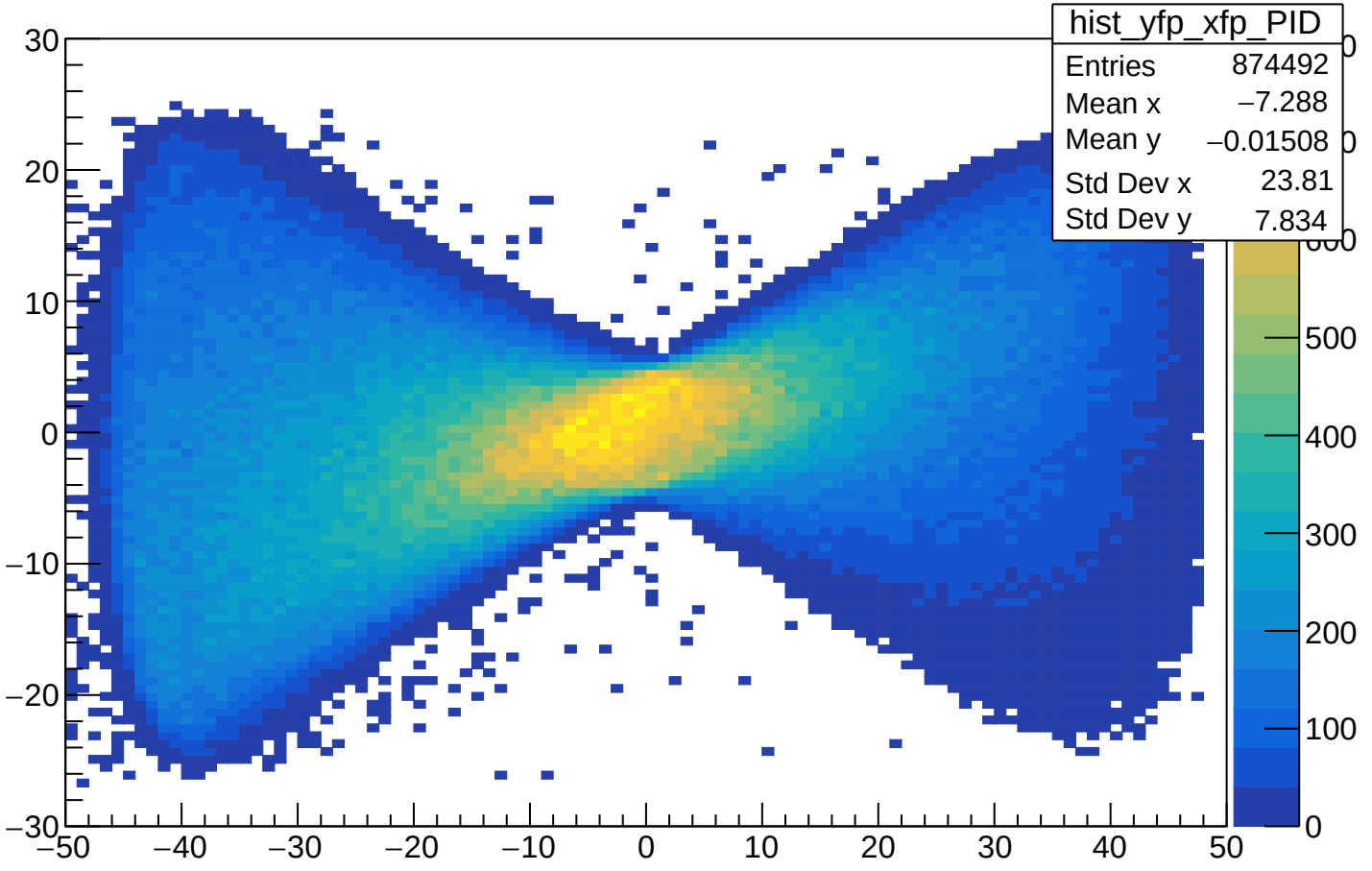

delta
hist_delta
Entries 1160369
Mean −1.932
Std Dev 6.569
x = -8
x = 8
10^4
10^3
10^2
10
1
−30
−20
−10
0
10
20
30

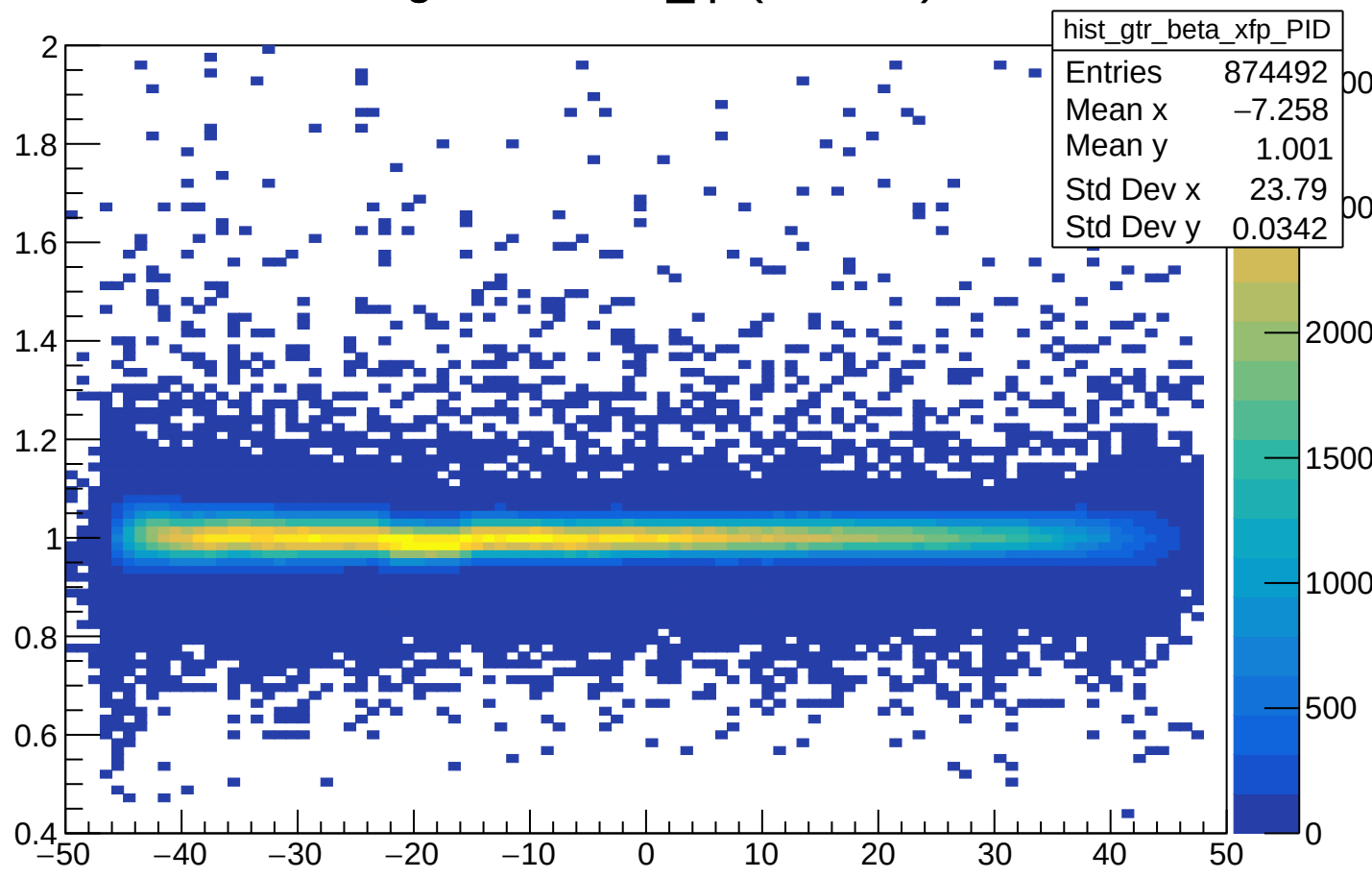

focal plane
hist_yfp_xfp
Entries 1160369
Mean x −8.555
Mean y −0.3251
Std Dev x 24.06
Std Dev y 8.258
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
600
500
400
300
200
100
0

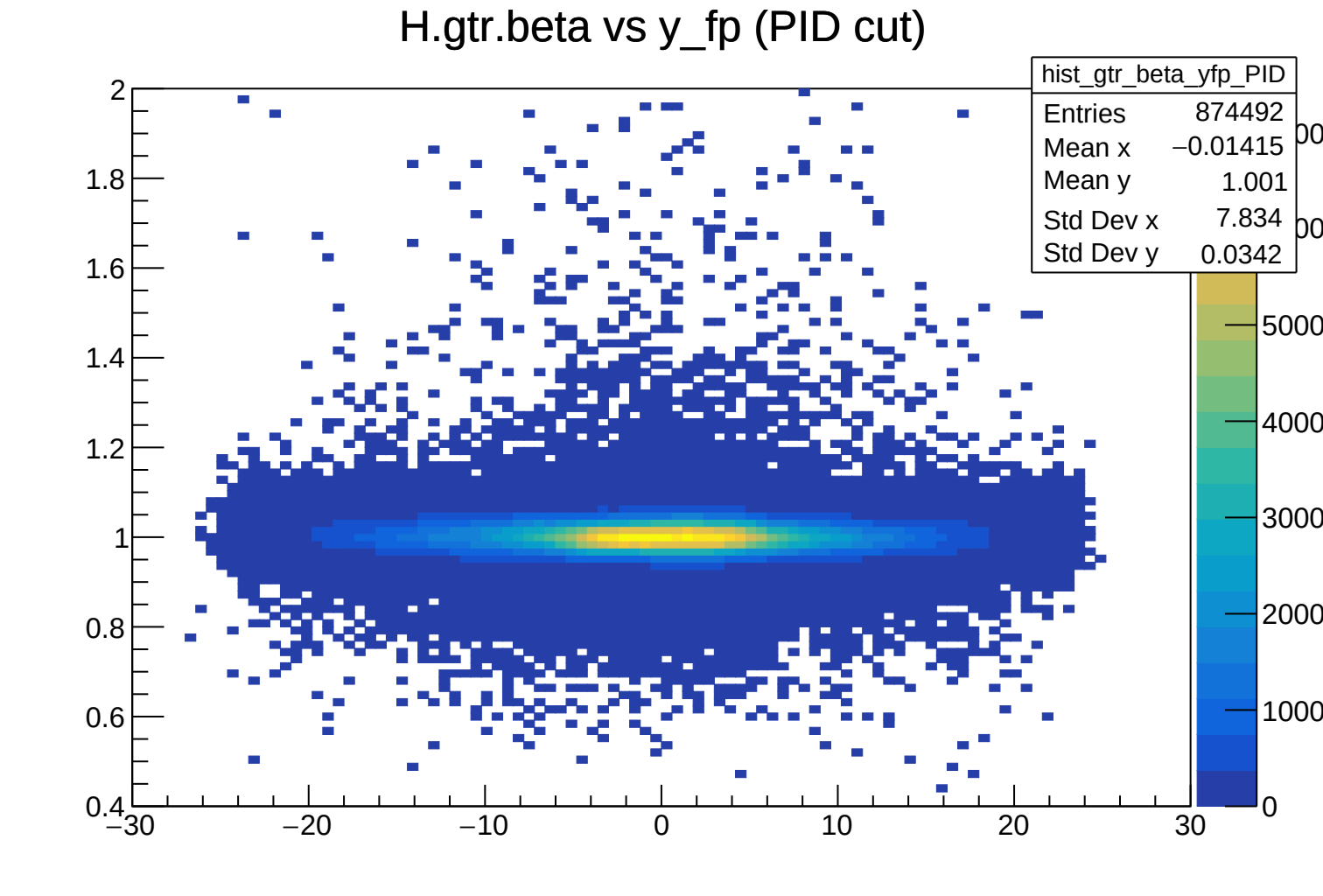

H.gtr.beta vs x_fp
hist_gtr_beta_xfp
Entries 1160369
Mean x −8.394
Mean y 1
Std Dev x 24.01
Std Dev y 0.03854
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−50
−40
−30
−20
−10
0
10
20
30
40
50
2500
2000
1500
1000
500
0

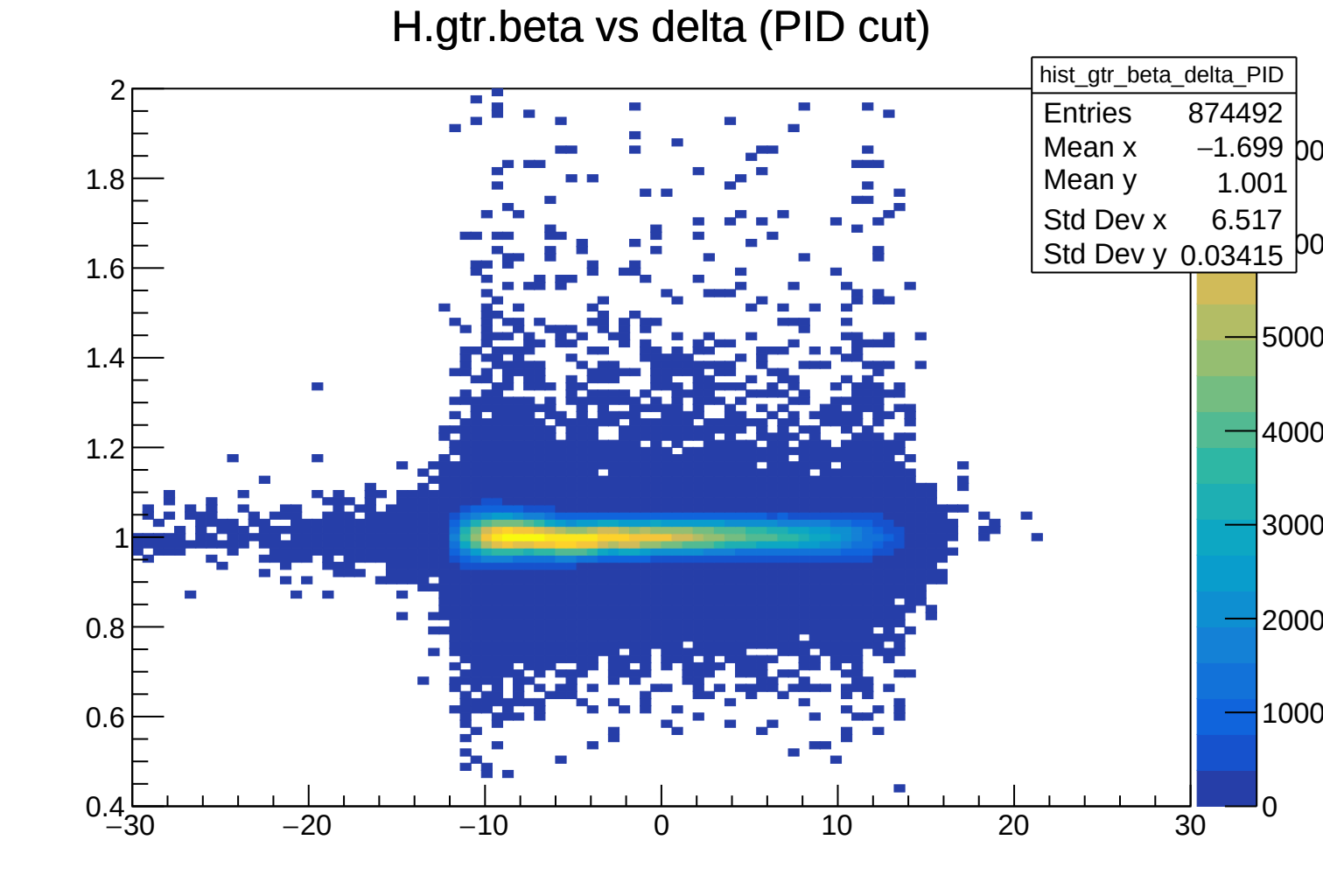

H.gtr.beta vs y_fp
hist_gtr_beta_yfp
Entries 1160369
Mean x −0.3116
Mean y 1
Std Dev x 8.203
Std Dev y 0.03896
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
5000
4000
3000
2000
1000
0

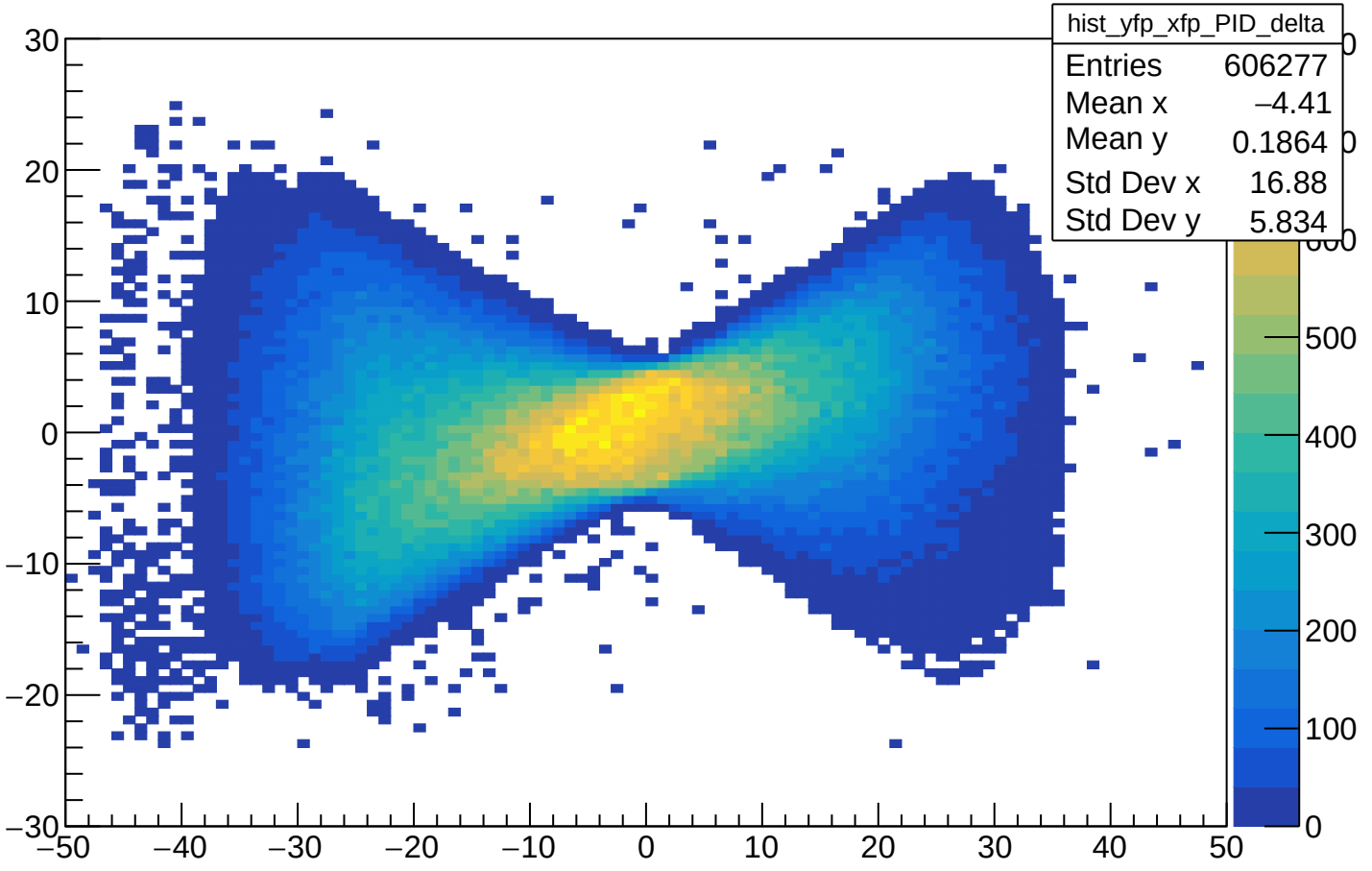

H.gtr.beta vs delta
hist_gtr_beta_delta
Entries 1160369
Mean x −1.916
Mean y 1
Std Dev x 6.562
Std Dev y 0.03666
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
6000
5000
4000
3000
2000
1000
0

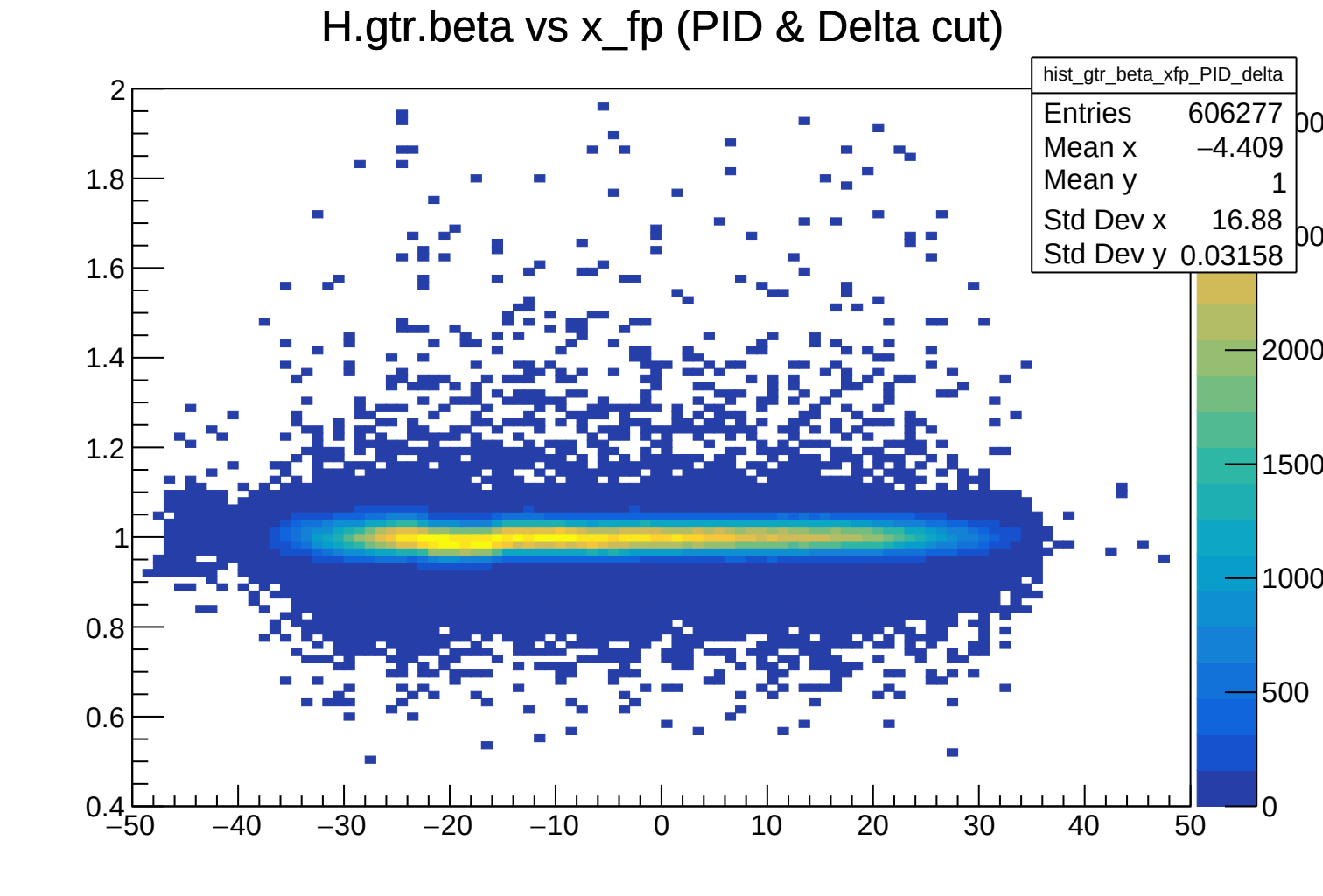

focal plane (PID cut)
hist_yfp_xfp_PID
Entries 874492
Mean x −7.288
Mean y −0.01508
Std Dev x 23.81
Std Dev y 7.834
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
500
400
300
200
100
0

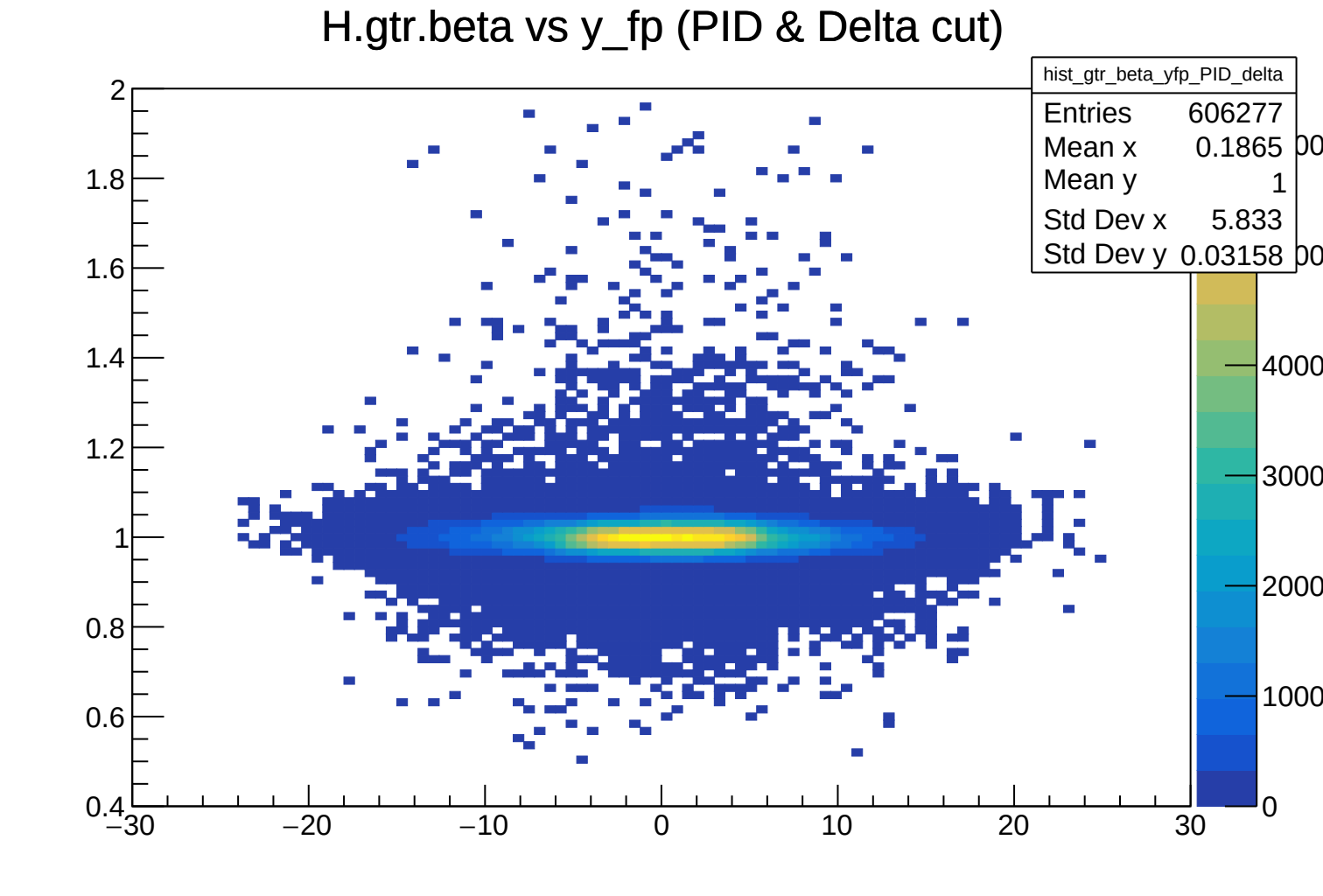

H.gtr.beta vs x_fp (PID cut)
hist_gtr_beta_xfp_PID
Entries 874492
Mean x −7.258
Mean y 1.001
Std Dev x 23.79
Std Dev y 0.0342
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−50
−40
−30
−20
−10
0
10
20
30
40
50
2000
1500
1000
500
0

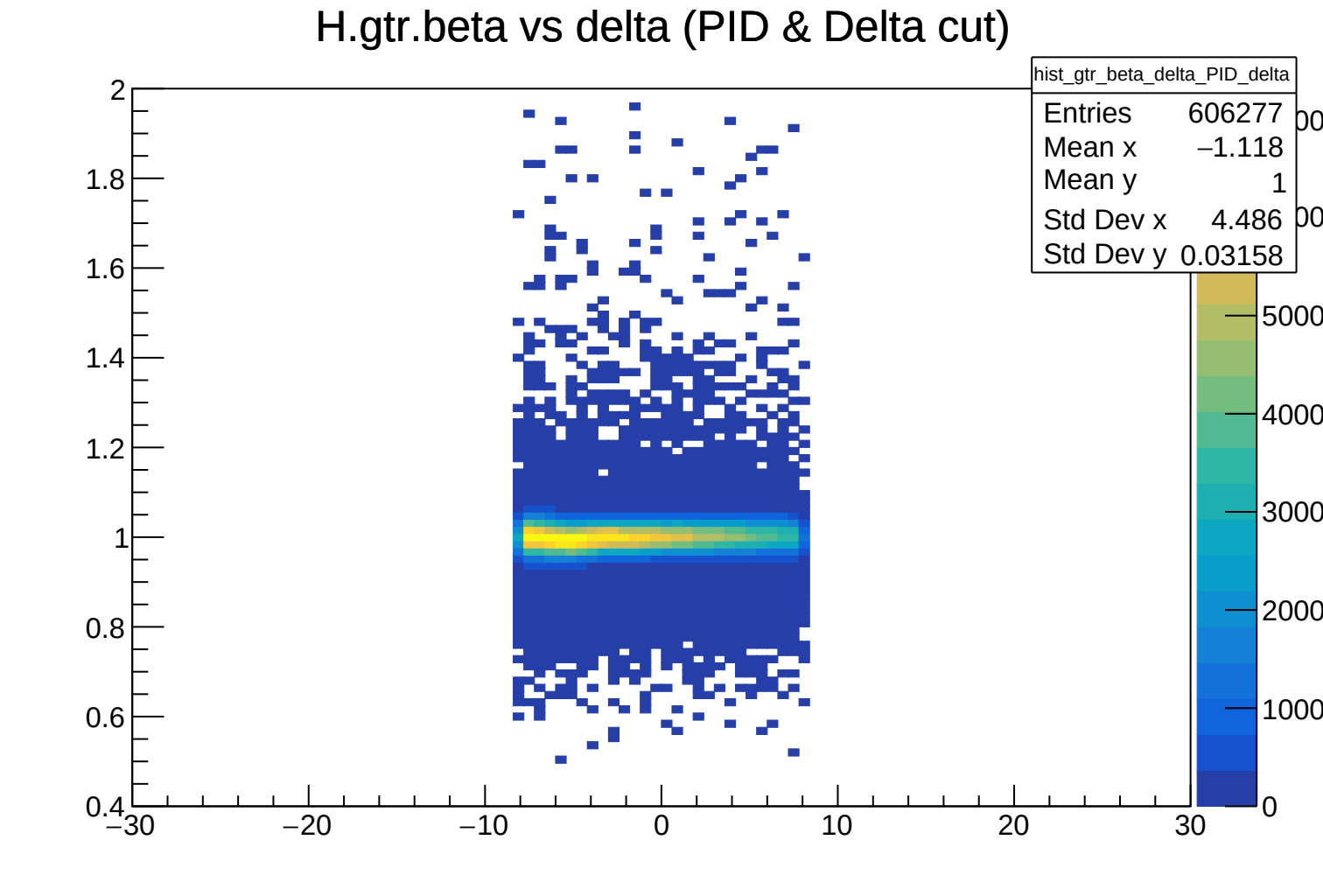

H.gtr.beta vs y_fp (PID cut)
hist_gtr_beta_yfp_PID
Entries 874492
Mean x −0.01415
Mean y 1.001
Std Dev x 7.834
Std Dev y 0.0342
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
5000
4000
3000
2000
1000
0


H.gtr.beta vs delta (PID cut)
hist_gtr_beta_delta_PID
Entries 874492
Mean x −1.699
Mean y 1.001
Std Dev x 6.517
Std Dev y 0.03415
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
5000
4000
3000
2000
1000
0


focal plane (PID & Delta cut)
hist_yfp_xfp_PID_delta
Entries 606277
Mean x −4.41
Mean y 0.1864
Std Dev x 16.88
Std Dev y 5.834
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 (PID & Delta cut)
hist_gtr_beta_xfp_PID_delta
Entries 606277
Mean x −4.409
Mean y 1
Std Dev x 16.88
Std Dev y 0.03158
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
2000
1500
1000
500
0


H.gtr.beta vs y_fp (PID & Delta cut)
hist_gtr_beta_yfp_PID_delta
Entries 606277
Mean x 0.1865
Mean y 1
Std Dev x 5.833
Std Dev y 0.03158
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
4000
3000
2000
1000
0


H.gtr.beta vs delta (PID & Delta cut)
hist_gtr_beta_delta_PID_delta
Entries 606277
Mean x −1.118
Mean y 1
Std Dev x 4.486
Std Dev y 0.03158
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
5000
4000
3000
2000
1000
0