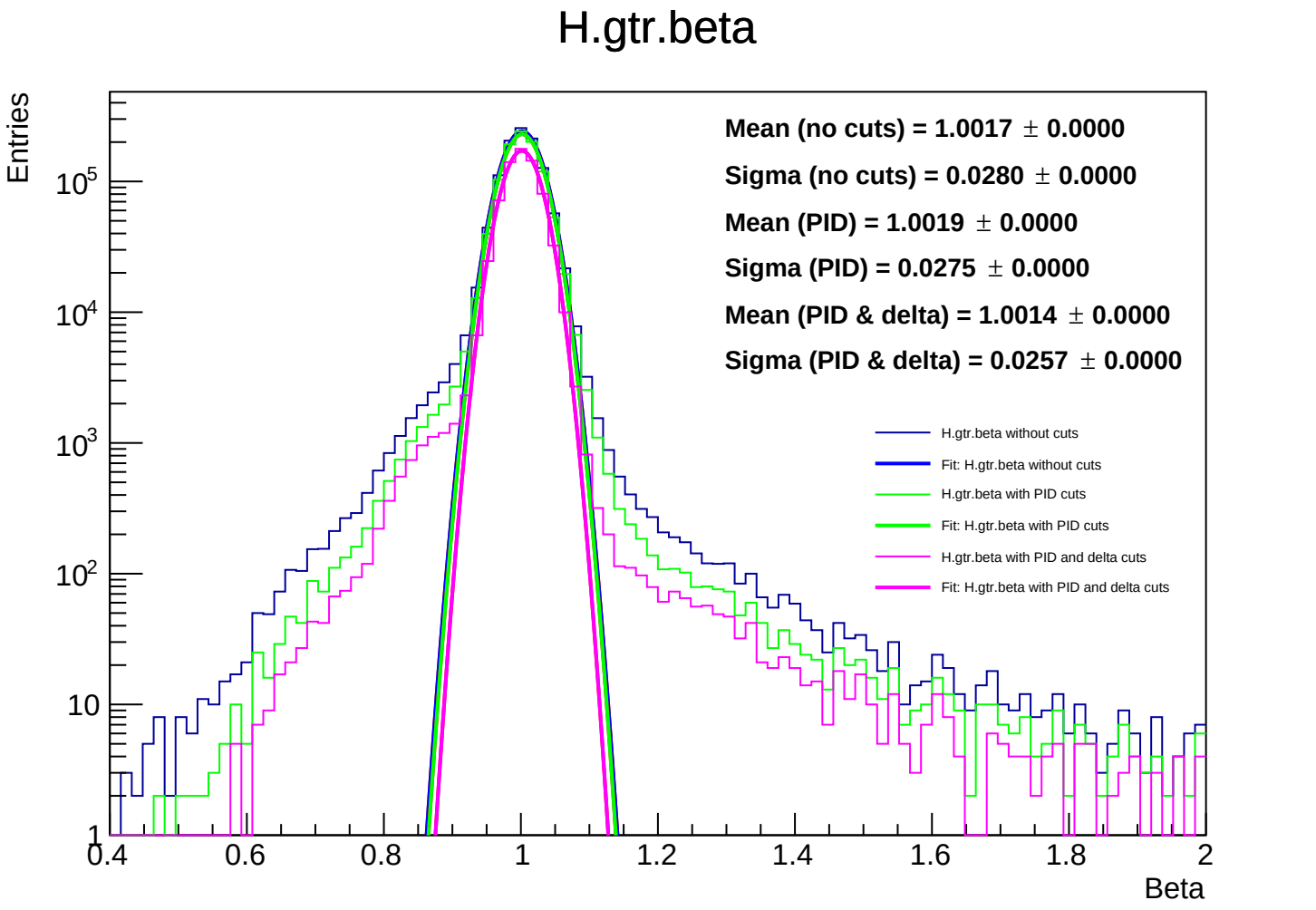
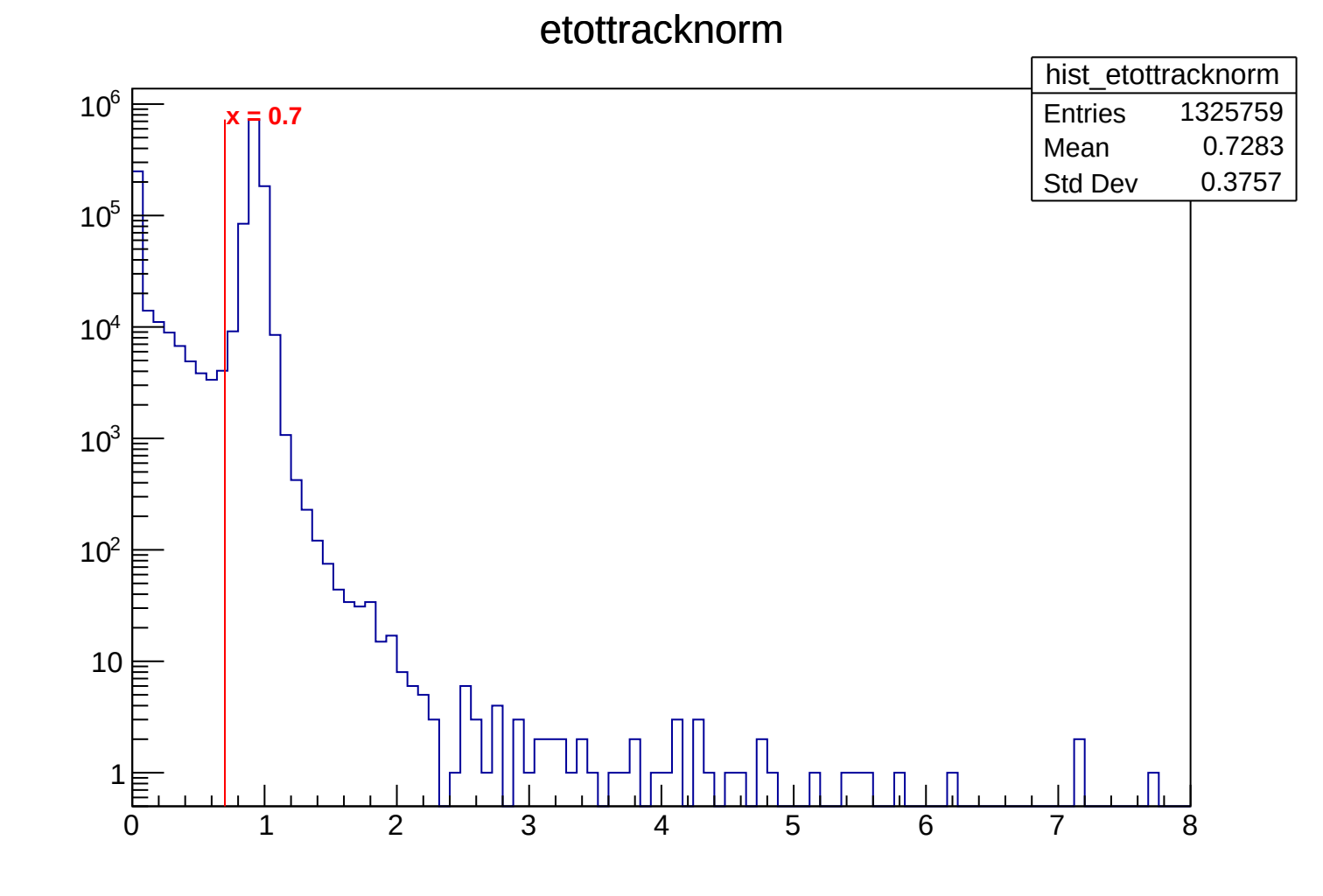
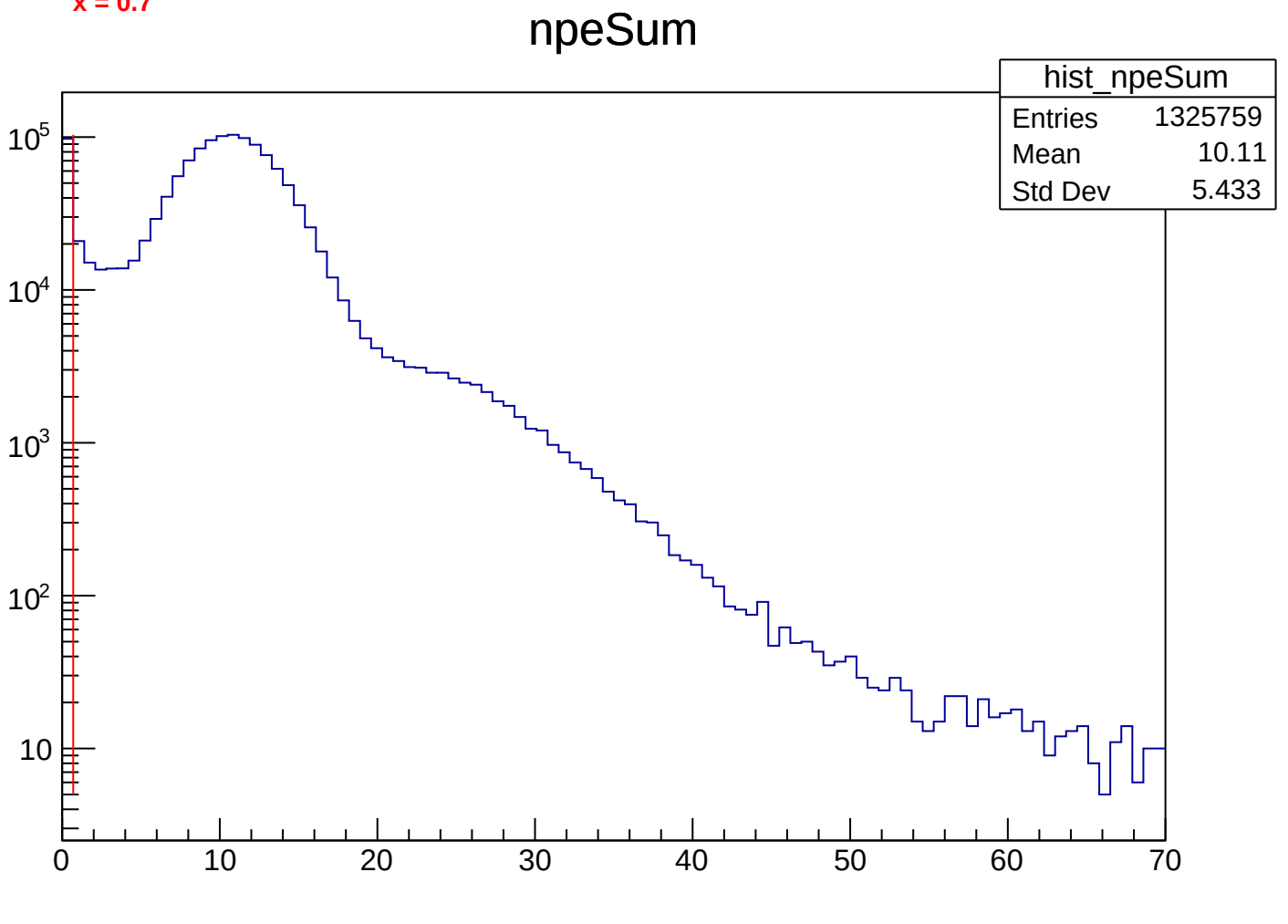
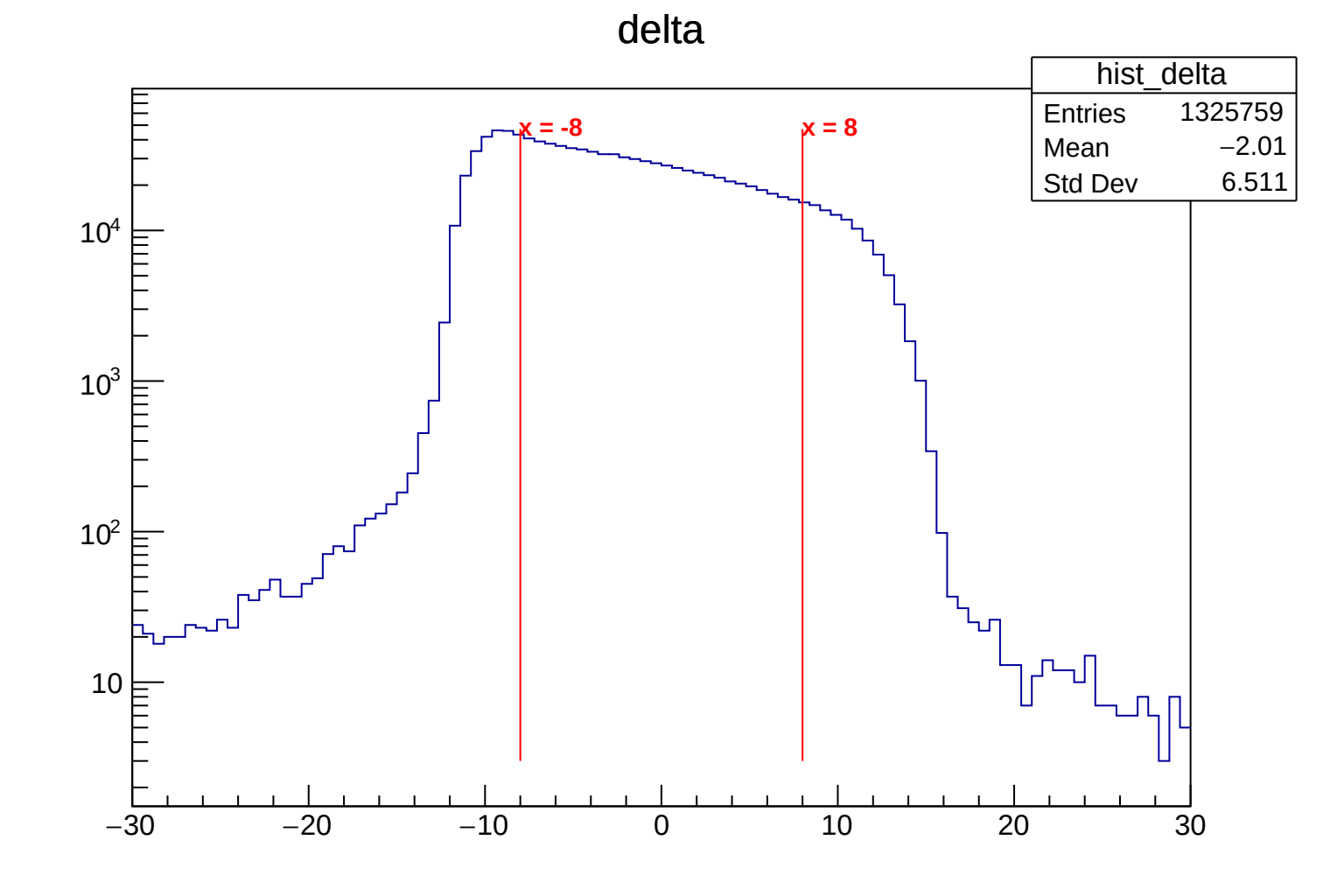
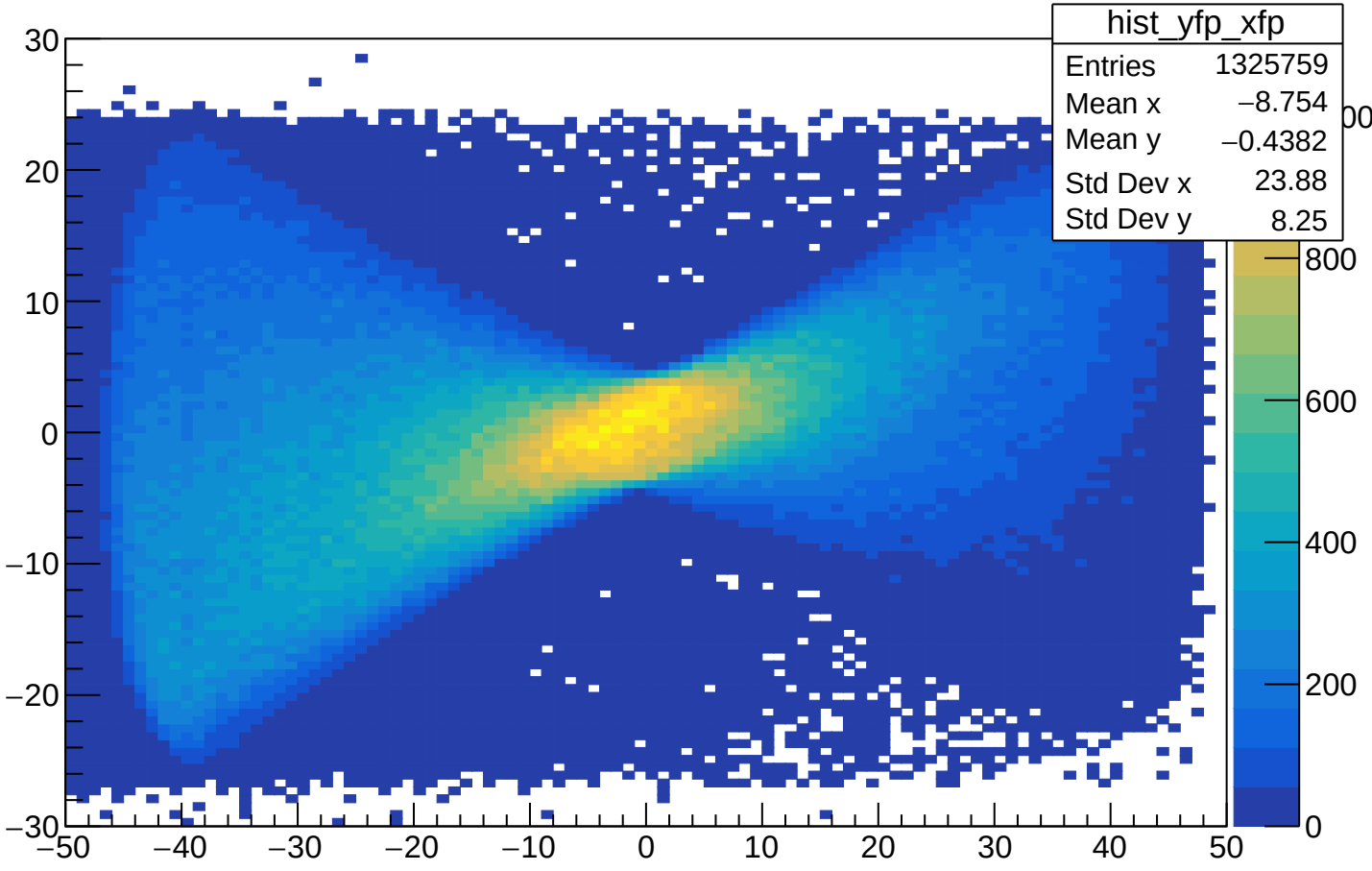
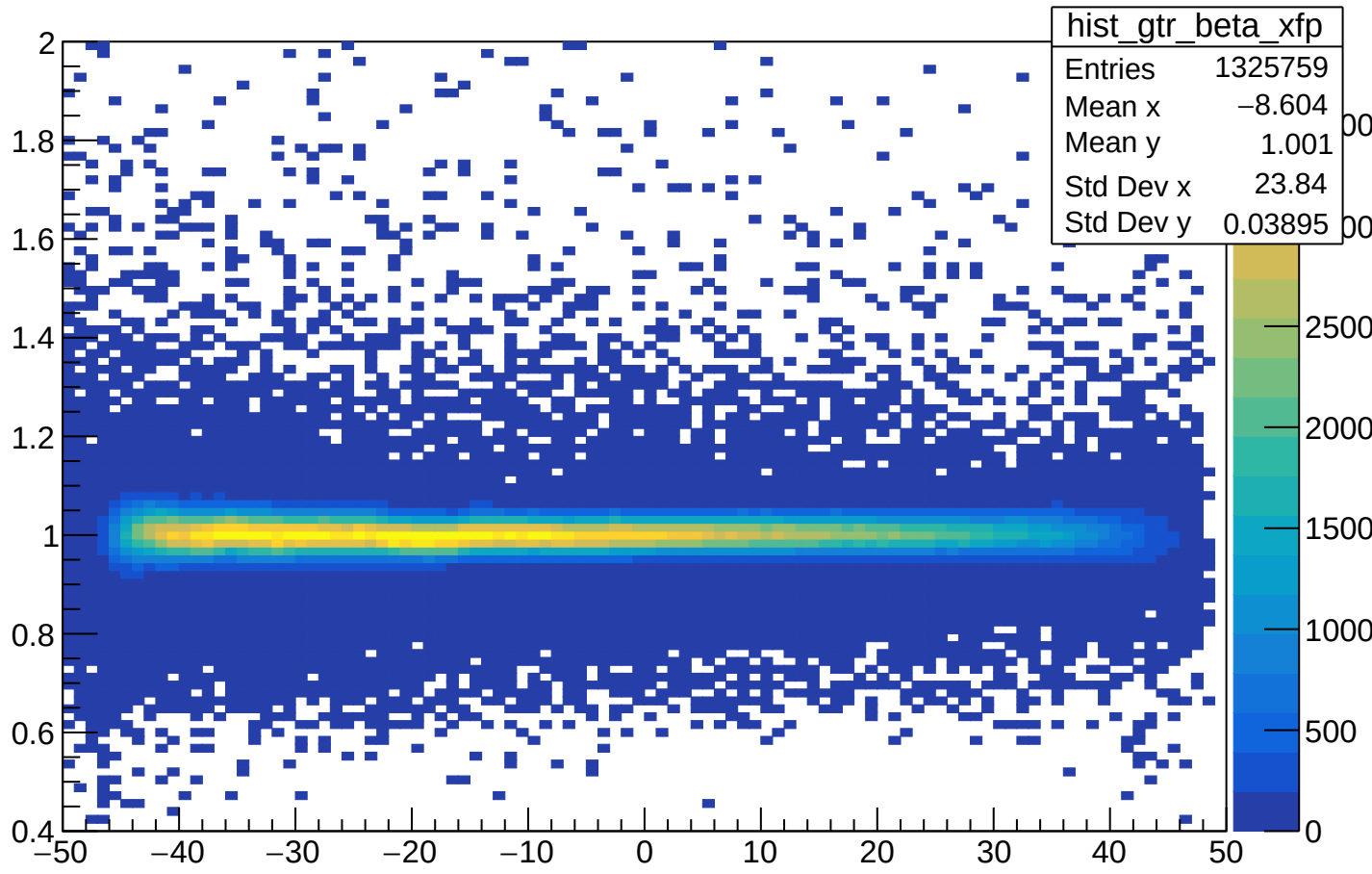

H.gtr.beta
Entries
Beta
Mean (no cuts) = 1.0017 ± 0.0000
Sigma (no cuts) = 0.0280 ± 0.0000
Mean (PID) = 1.0019 ± 0.0000
Sigma (PID) = 0.0275 ± 0.0000
Mean (PID & delta) = 1.0014 ± 0.0000
Sigma (PID & delta) = 0.0257 ± 0.0000
H.gtr.beta without cuts
Fit: H.gtr.beta without cuts
H.gtr.beta with PID cuts
Fit: H.gtr.beta with PID cuts
H.gtr.beta with PID and delta cuts
Fit: H.gtr.beta with PID and delta cuts

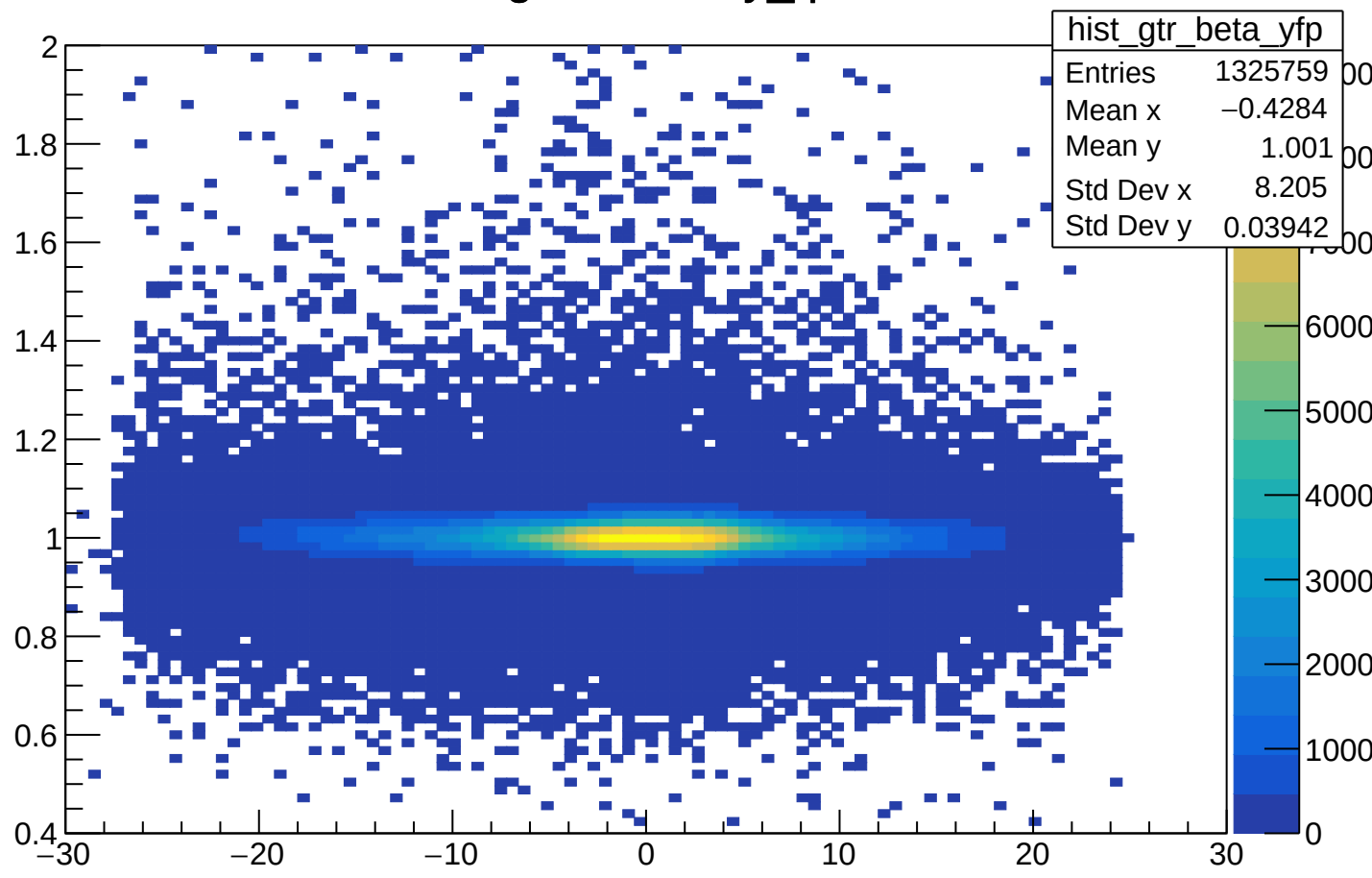

etottracknorm
hist_etottracknorm
Entries 1325759
Mean 0.7283
Std Dev 0.3757
x = 0.7
10^6
10^5
10^4
10^3
10^2
10
1
0
1
2
3
4
5
6
7
8

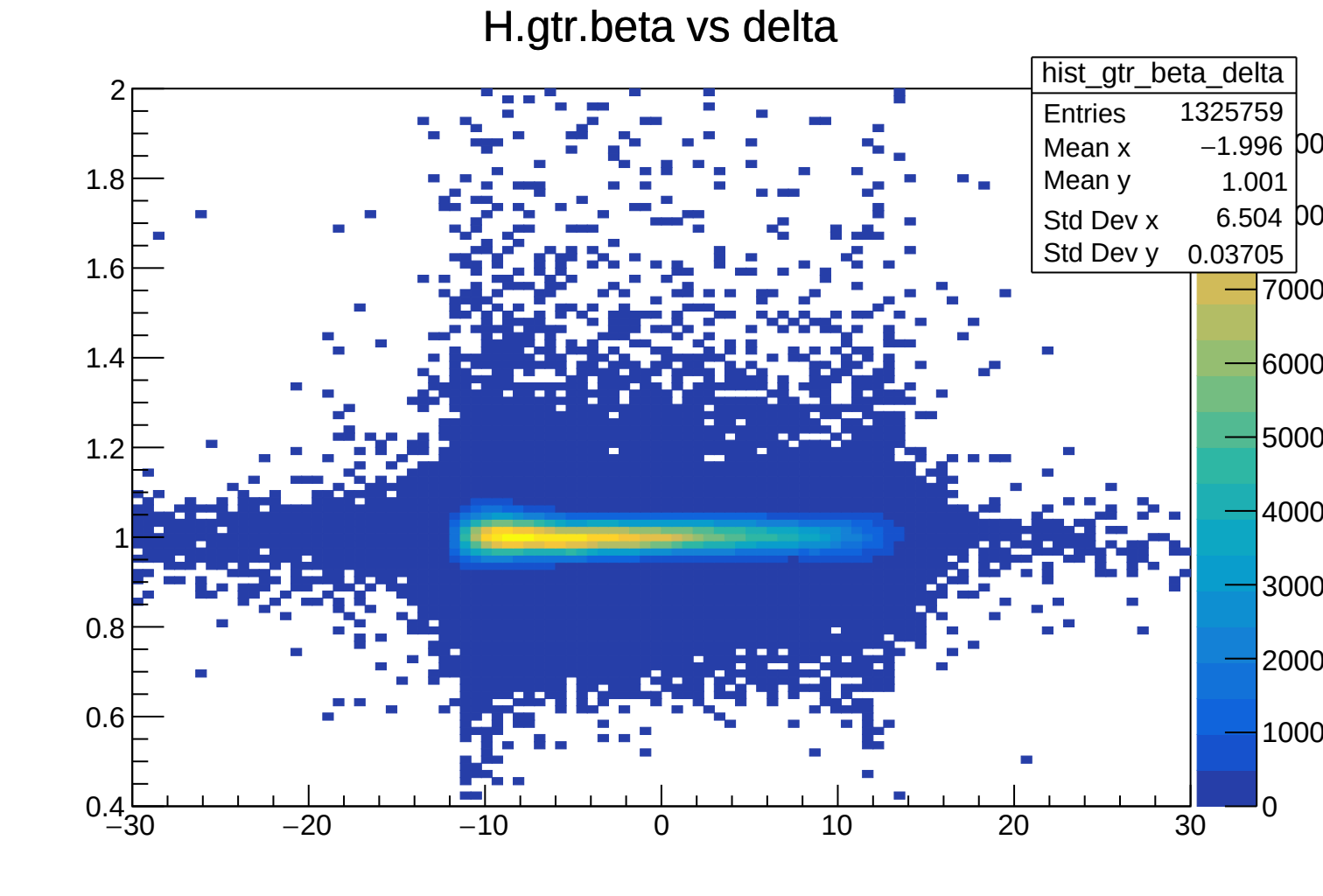

x = 0.7
npeSum
hist_npeSum
Entries 1325759
Mean 10.11
Std Dev 5.433
10^5
10^4
10^3
10^2
10
0
10
20
30
40
50
60
70

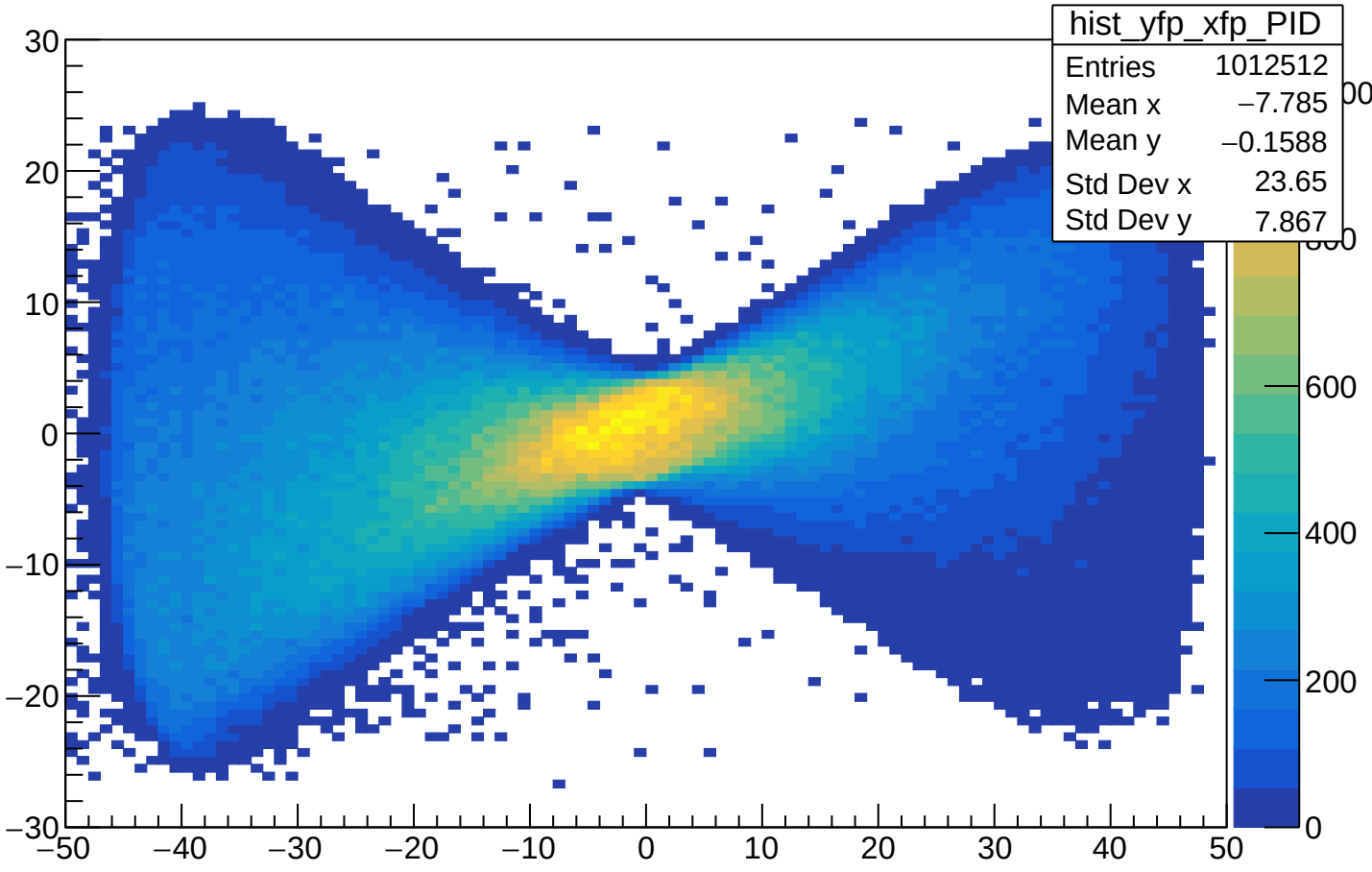

delta
hist_delta
Entries 1325759
Mean −2.01
Std Dev 6.511
x = -8
x = 8
10^4
10^3
10^2
10
−30
−20
−10
0
10
20
30

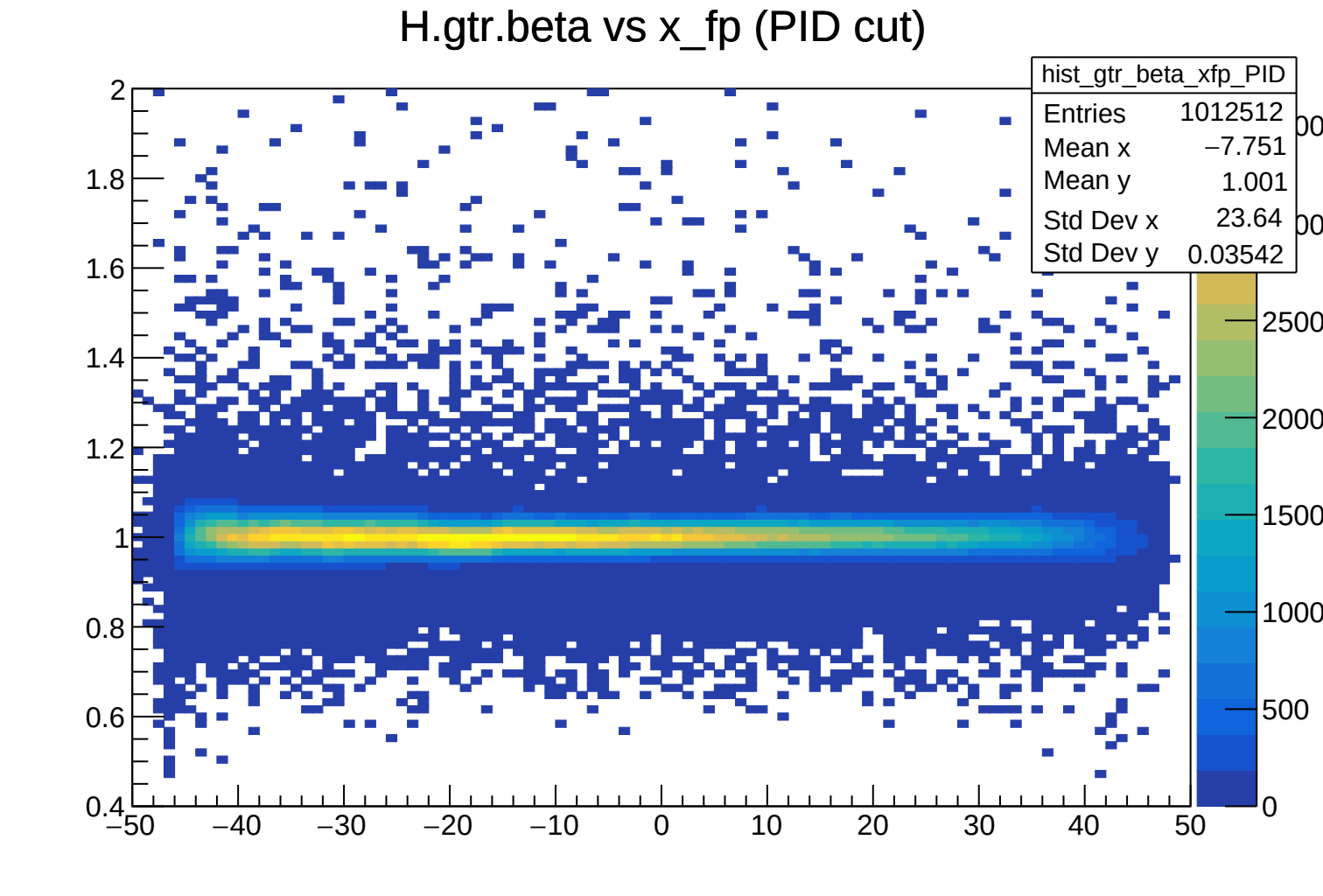

focal plane
hist_yfp_xfp
Entries 1325759
Mean x −8.754
Mean y −0.4382
Std Dev x 23.88
Std Dev y 8.25
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
800
600
400
200
0

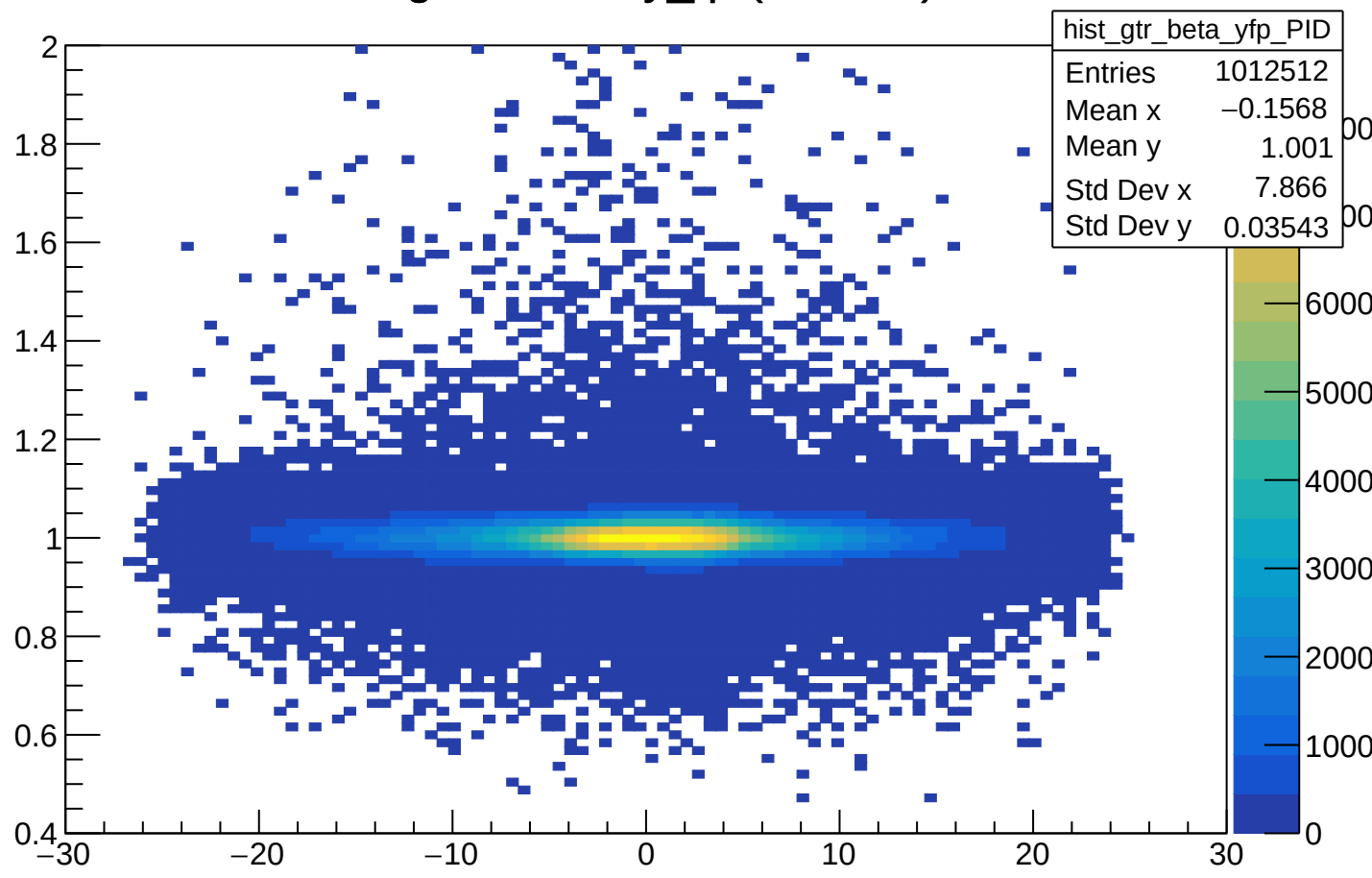

H.gtr.beta vs x_fp
hist_gtr_beta_xfp
Entries 1325759
Mean x −8.604
Mean y 1.001
Std Dev x 23.84
Std Dev y 0.03895
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−50
−40
−30
−20
−10
0
10
20
30
40
50
2500
2000
1500
1000
500
0

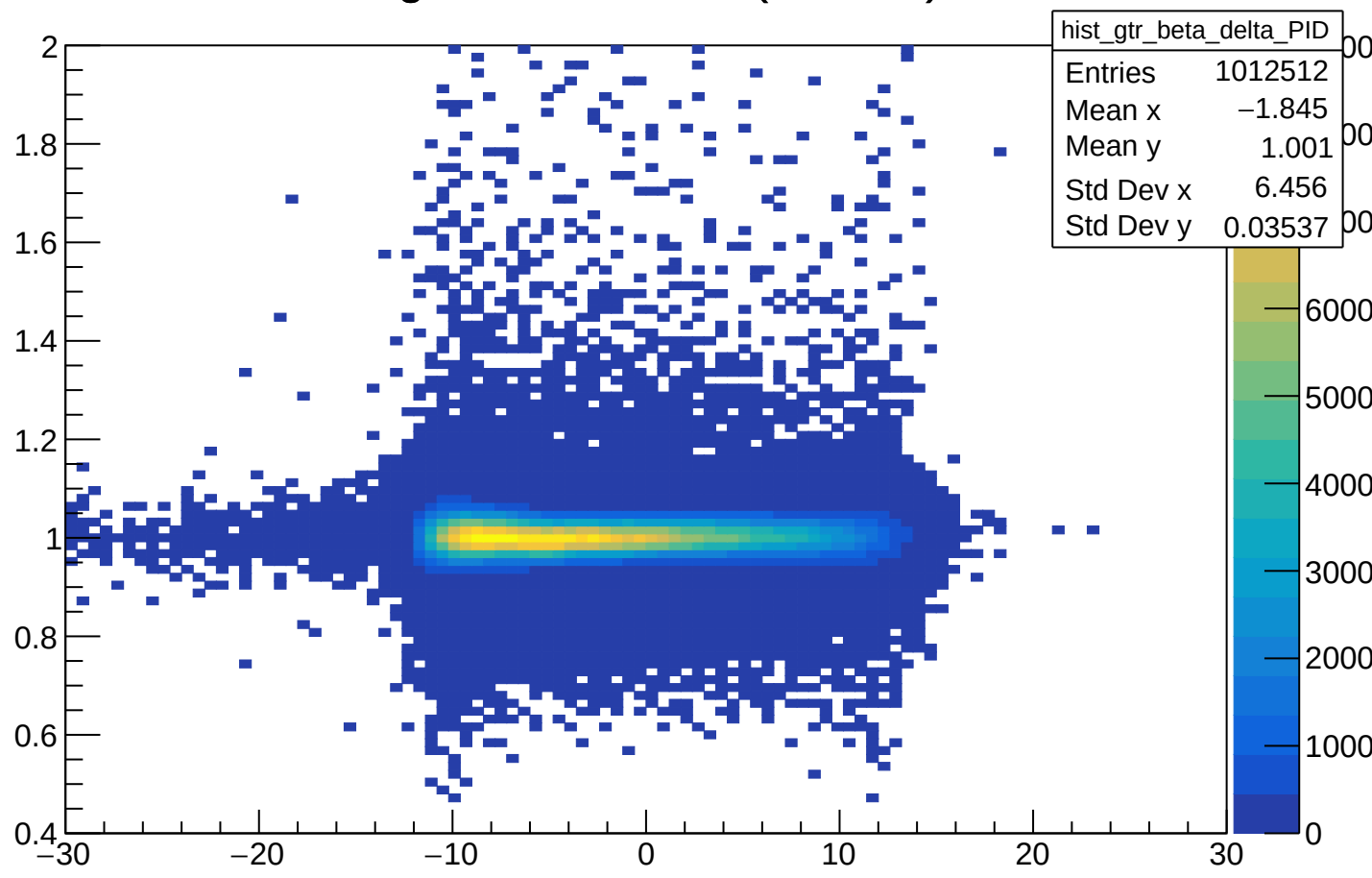

H.gtr.beta vs y_fp
hist_gtr_beta_yfp
Entries 1325759
Mean x −0.4284
Mean y 1.001
Std Dev x 8.205
Std Dev y 0.03942
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
6000
5000
4000
3000
2000
1000
0

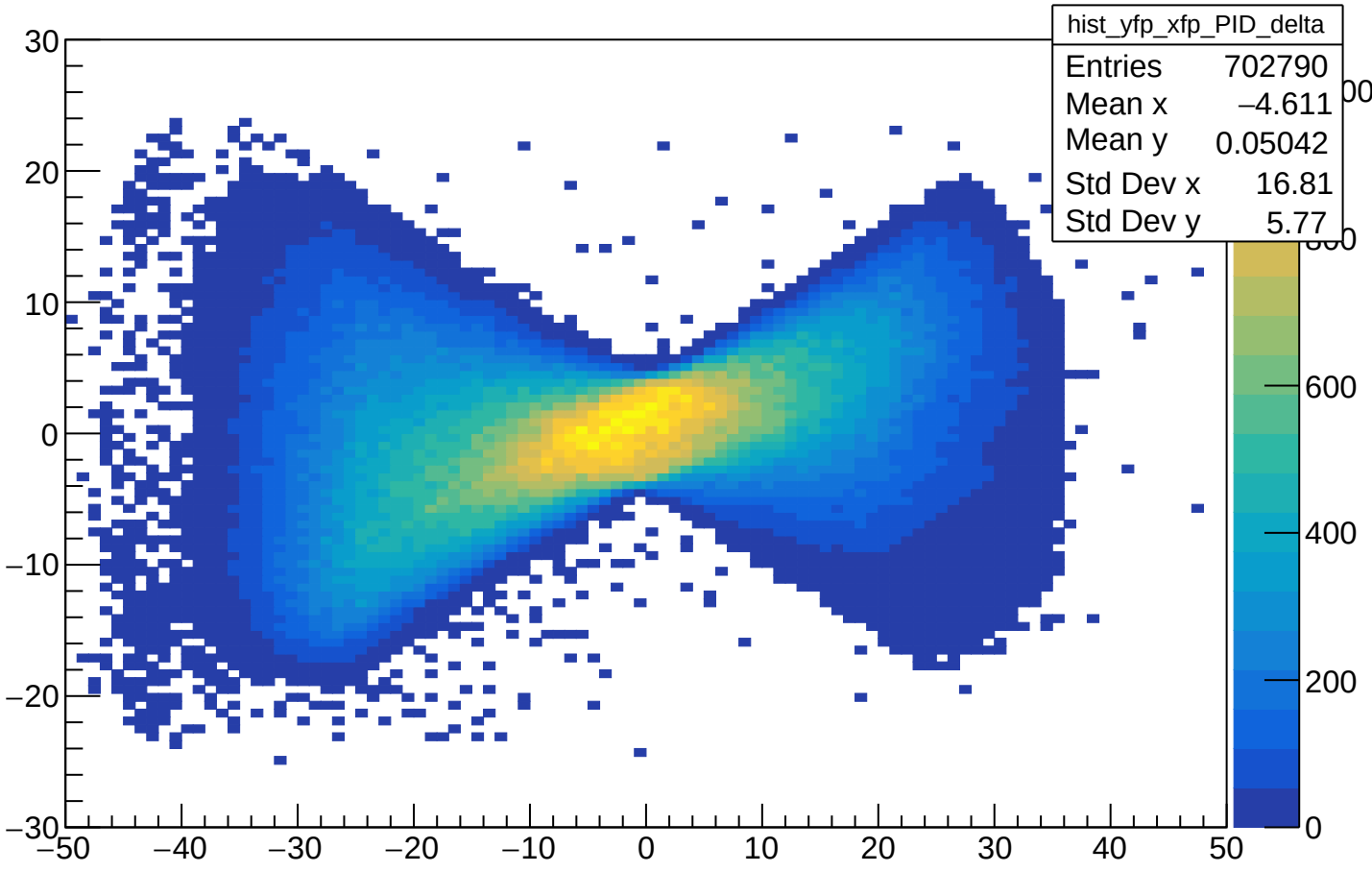

H.gtr.beta vs delta
hist_gtr_beta_delta
Entries 1325759
Mean x −1.996
Mean y 1.001
Std Dev x 6.504
Std Dev y 0.03705
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
7000
6000
5000
4000
3000
2000
1000
0

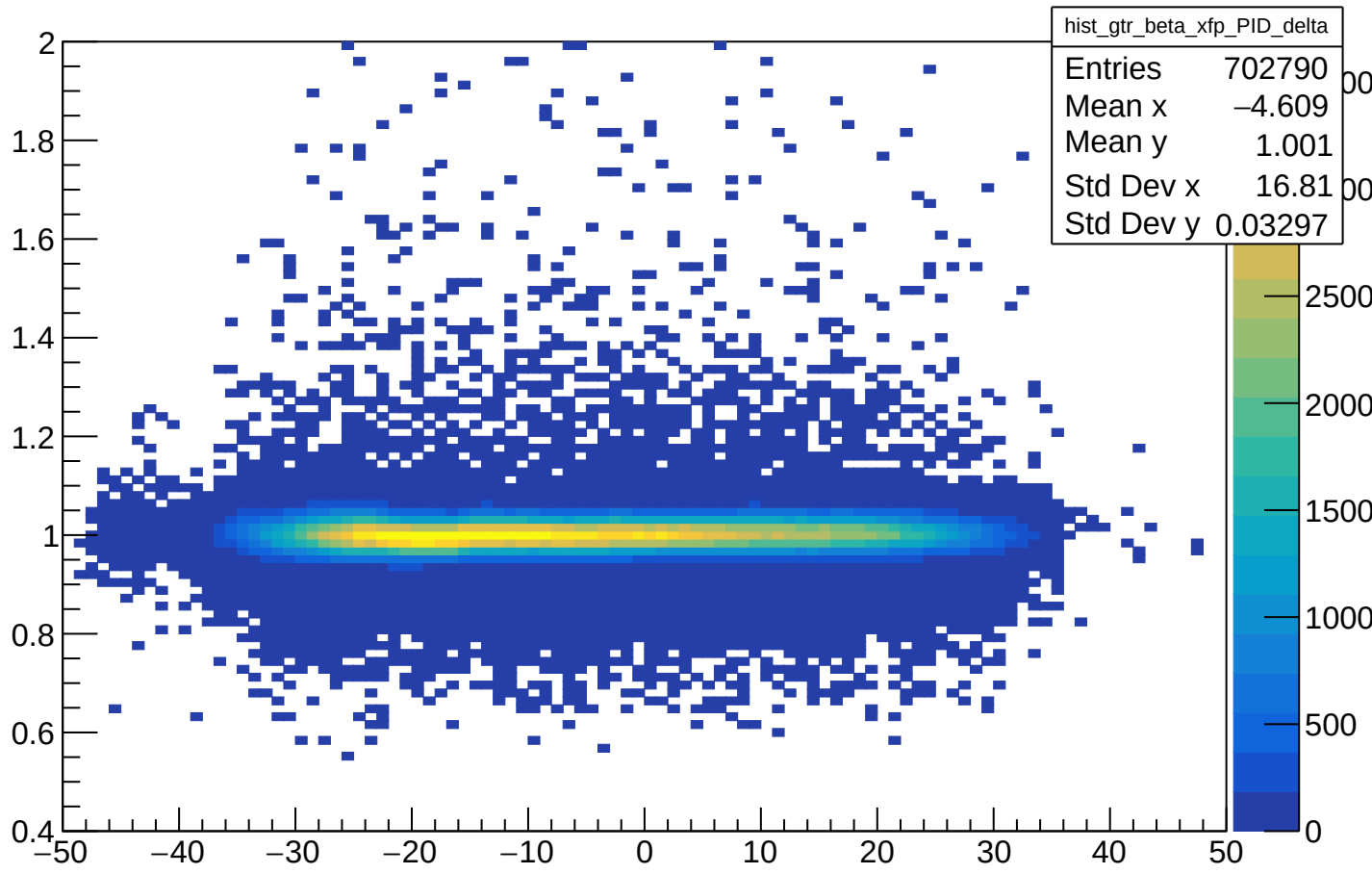

focal plane (PID cut)
hist_yfp_xfp_PID
Entries 1012512
Mean x −7.785
Mean y −0.1588
Std Dev x 23.65
Std Dev y 7.867
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
600
400
200
0

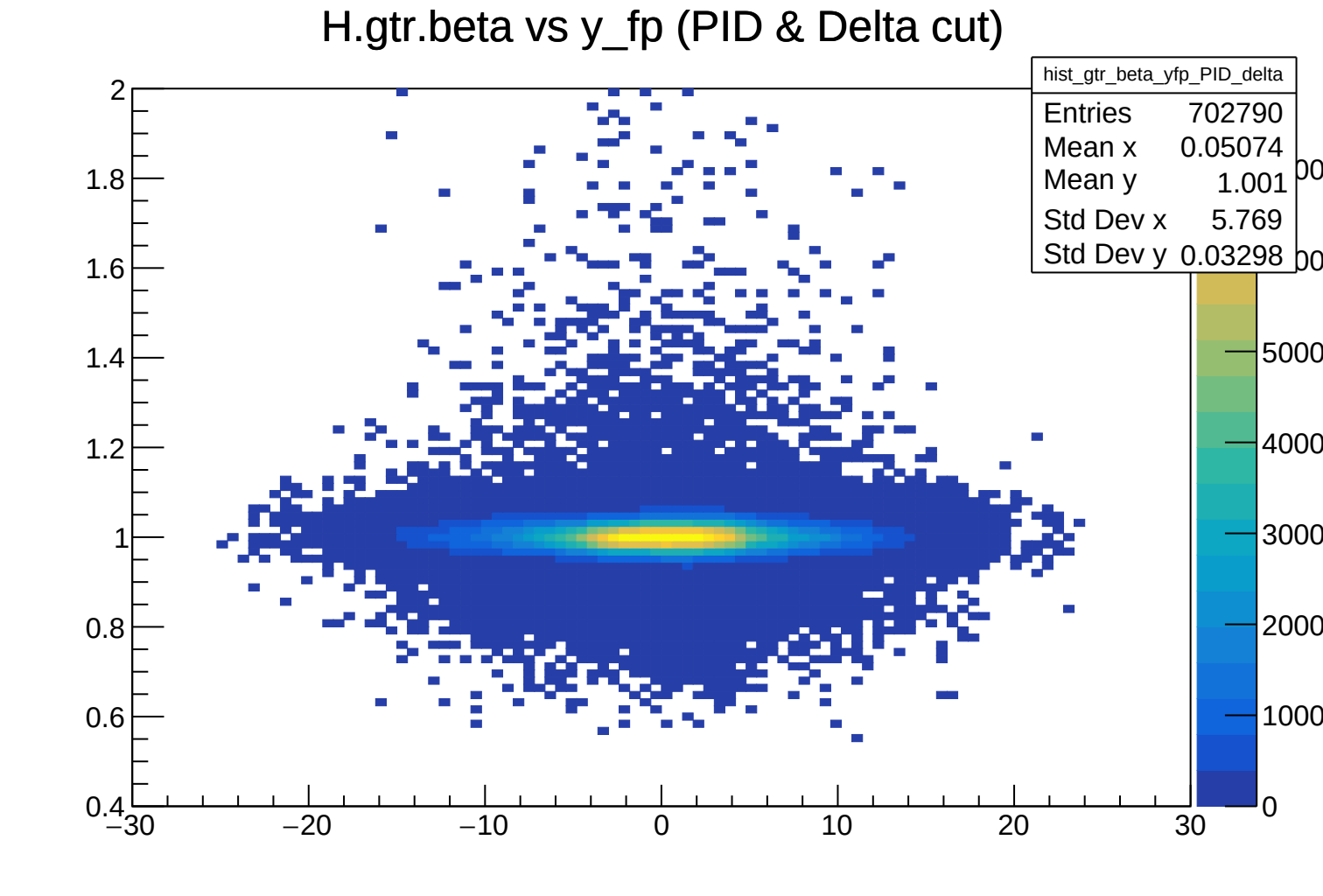

H.gtr.beta vs x_fp (PID cut)
hist_gtr_beta_xfp_PID
Entries 1012512
Mean x −7.751
Mean y 1.001
Std Dev x 23.64
Std Dev y 0.03542
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−50
−40
−30
−20
−10
0
10
20
30
40
50
2500
2000
1500
1000
500
0

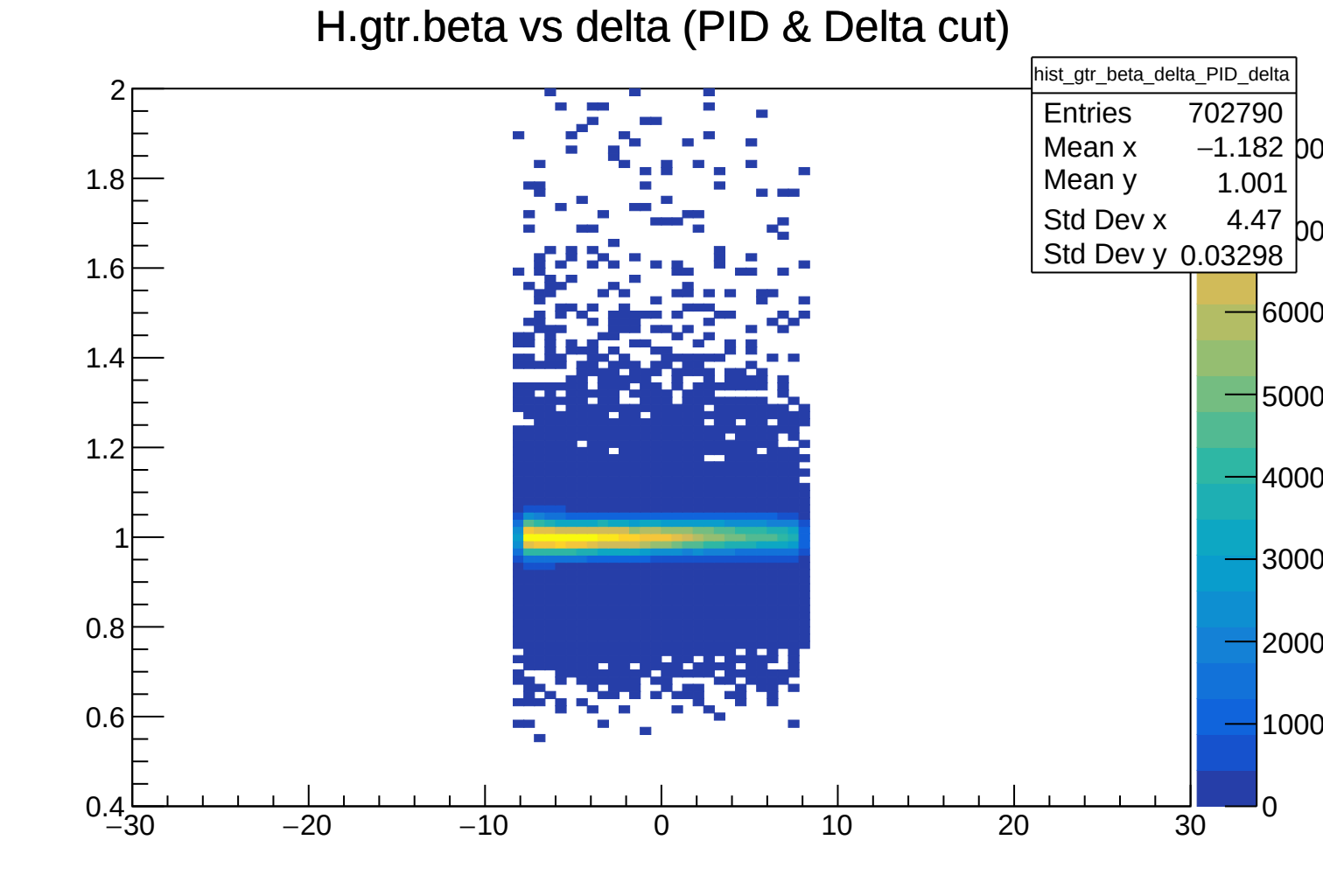

H.gtr.beta vs y_fp (PID cut)
hist_gtr_beta_yfp_PID
Entries 1012512
Mean x −0.1568
Mean y 1.001
Std Dev x 7.866
Std Dev y 0.03543
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
6000
5000
4000
3000
2000
1000
0


H.gtr.beta vs delta (PID cut)
hist_gtr_beta_delta_PID
Entries 1012512
Mean x −1.845
Mean y 1.001
Std Dev x 6.456
Std Dev y 0.03537
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 & Delta cut)
hist_yfp_xfp_PID_delta
Entries 702790
Mean x −4.611
Mean y 0.05042
Std Dev x 16.81
Std Dev y 5.77
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
600
400
200
0


H.gtr.beta vs x_fp (PID & Delta cut)
hist_gtr_beta_xfp_PID_delta
Entries 702790
Mean x −4.609
Mean y 1.001
Std Dev x 16.81
Std Dev y 0.03297
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 (PID & Delta cut)
hist_gtr_beta_yfp_PID_delta
Entries 702790
Mean x 0.05074
Mean y 1.001
Std Dev x 5.769
Std Dev y 0.03298
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 & Delta cut)
hist_gtr_beta_delta_PID_delta
Entries 702790
Mean x −1.182
Mean y 1.001
Std Dev x 4.47
Std Dev y 0.03298
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