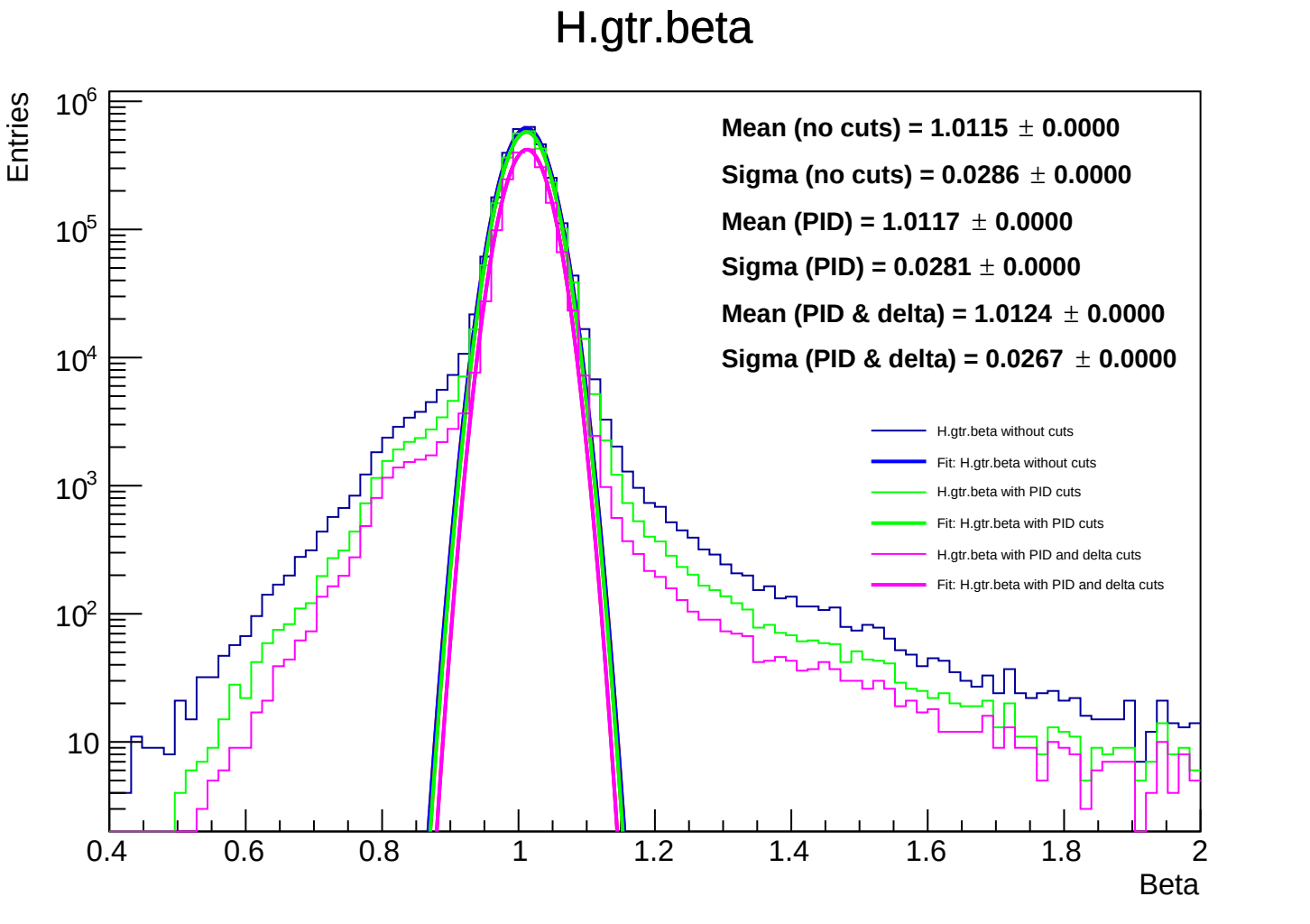
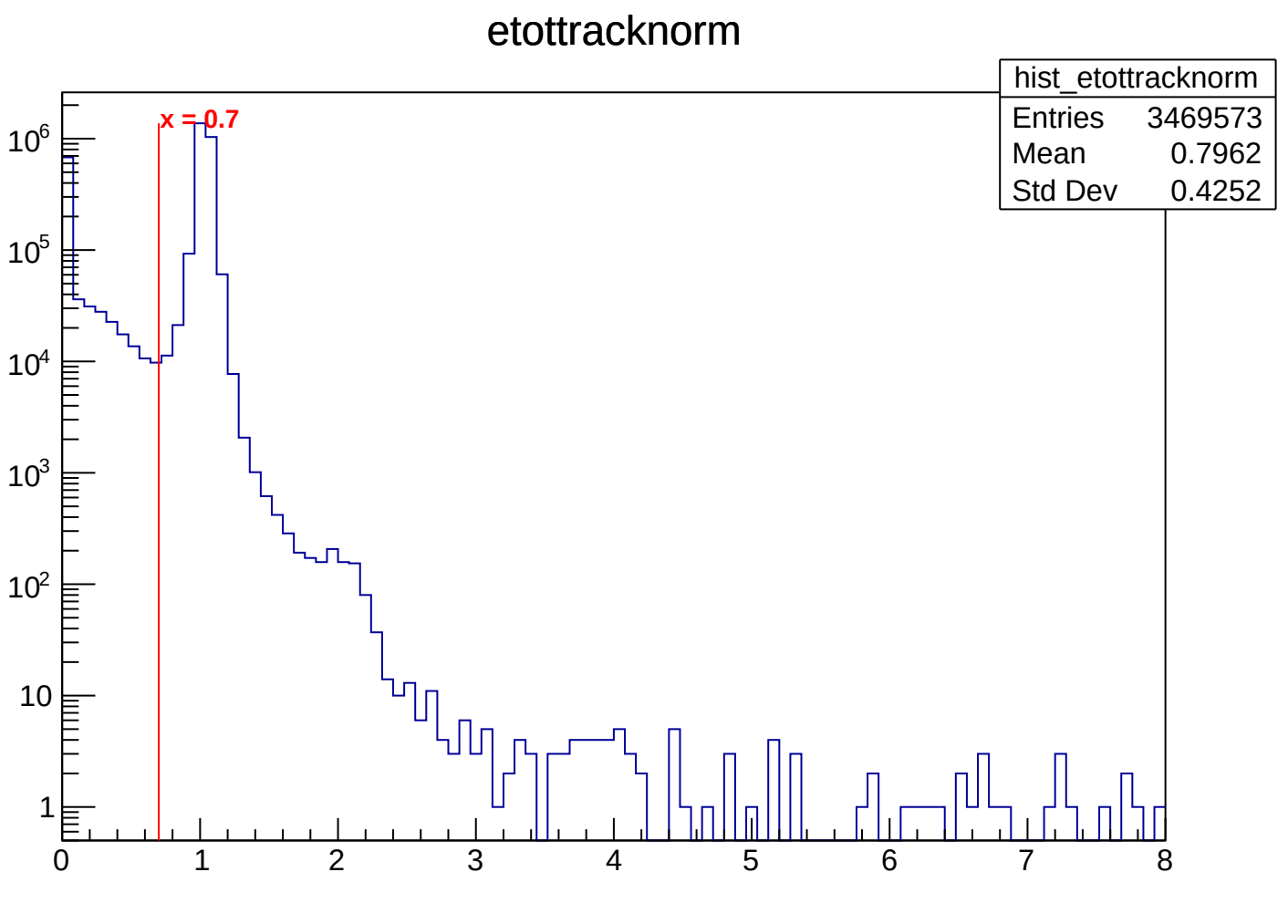
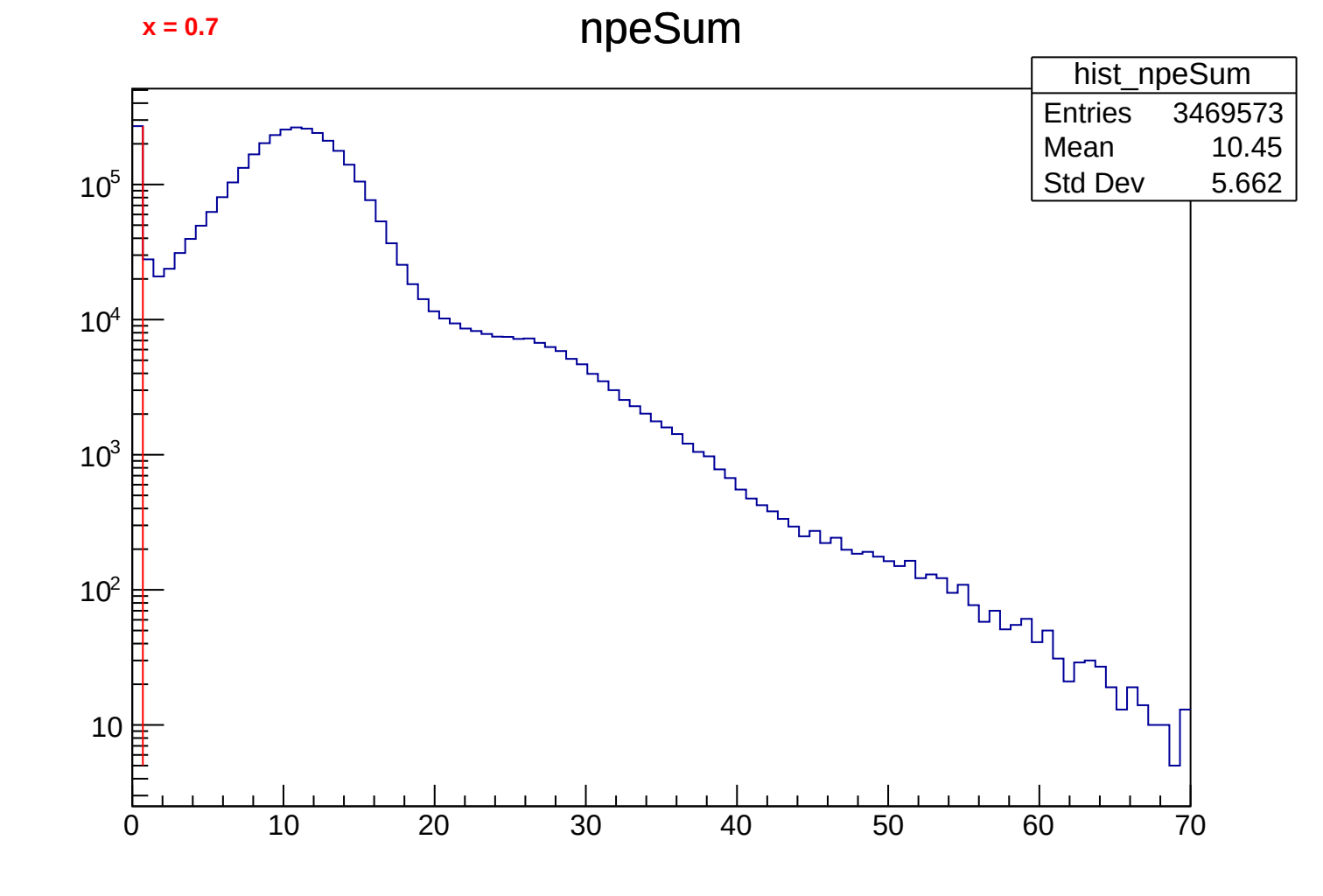
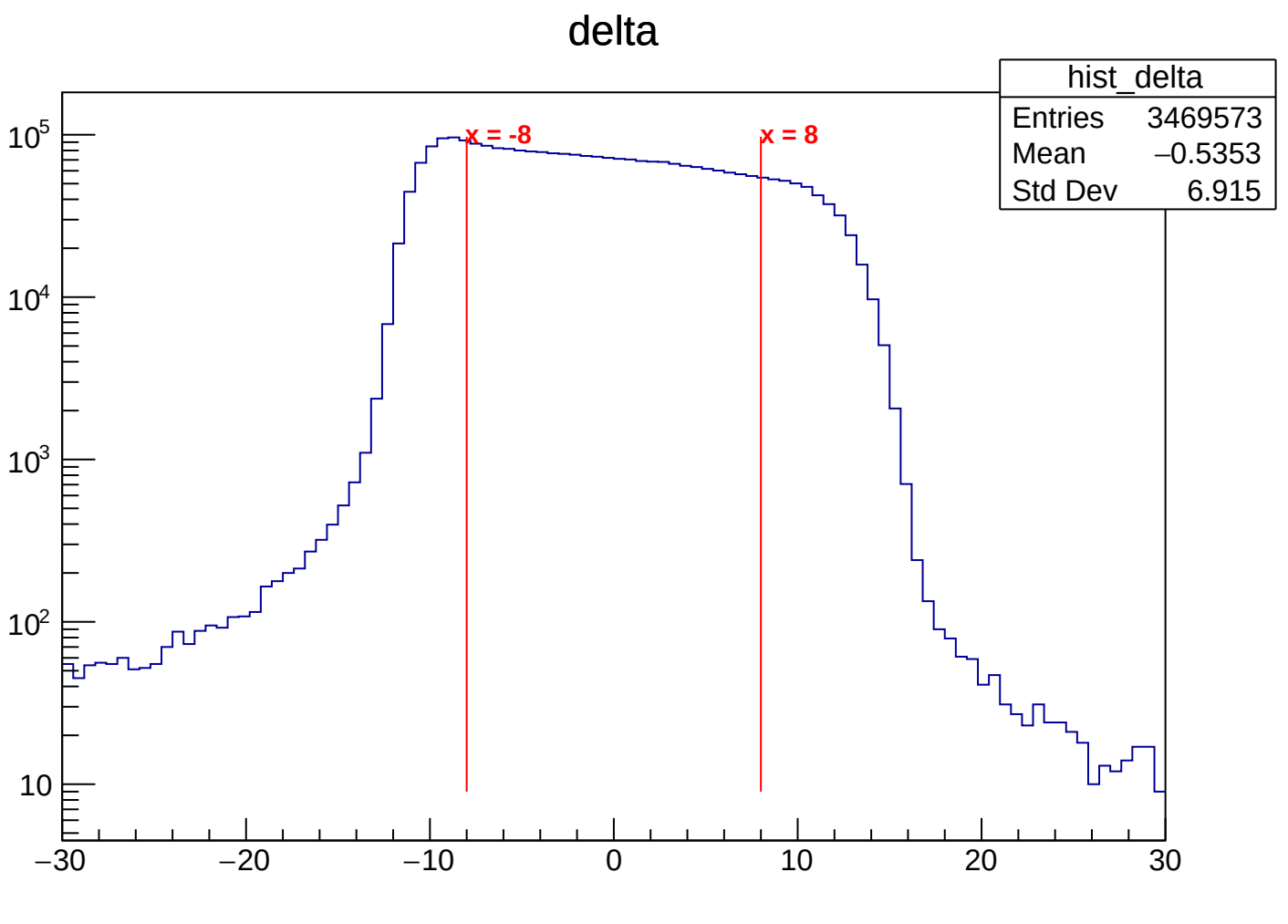
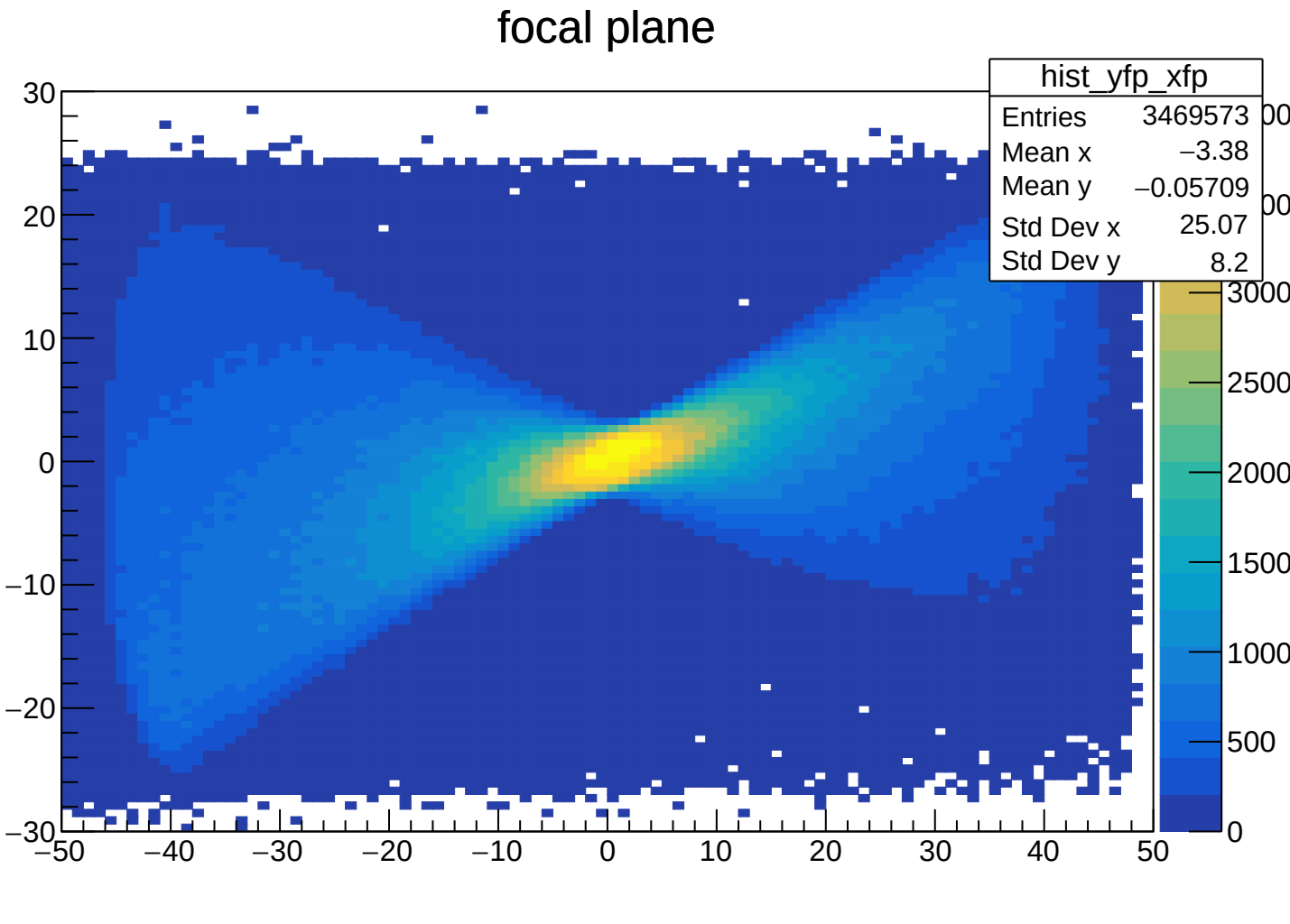
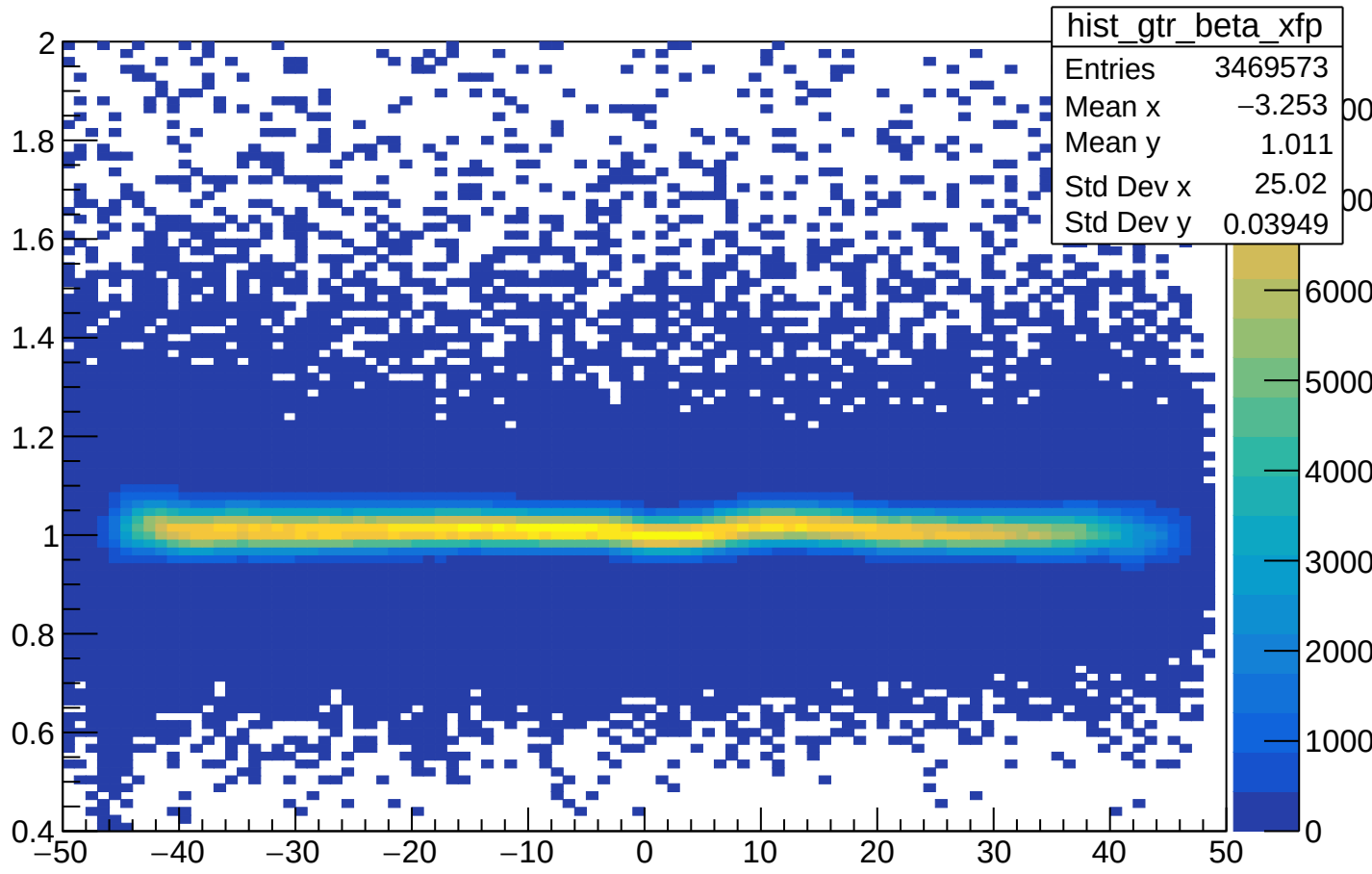

H.gtr.beta
Entries
Beta
Mean (no cuts) = 1.0115 ± 0.0000
Sigma (no cuts) = 0.0286 ± 0.0000
Mean (PID) = 1.0117 ± 0.0000
Sigma (PID) = 0.0281 ± 0.0000
Mean (PID & delta) = 1.0124 ± 0.0000
Sigma (PID & delta) = 0.0267 ± 0.0000
H.gtr.beta without cuts
Fit: H.gtr.beta without cuts
H.gtr.beta with PID cuts
Fit: H.gtr.beta with PID cuts
H.gtr.beta with PID and delta cuts
Fit: H.gtr.beta with PID and delta cuts

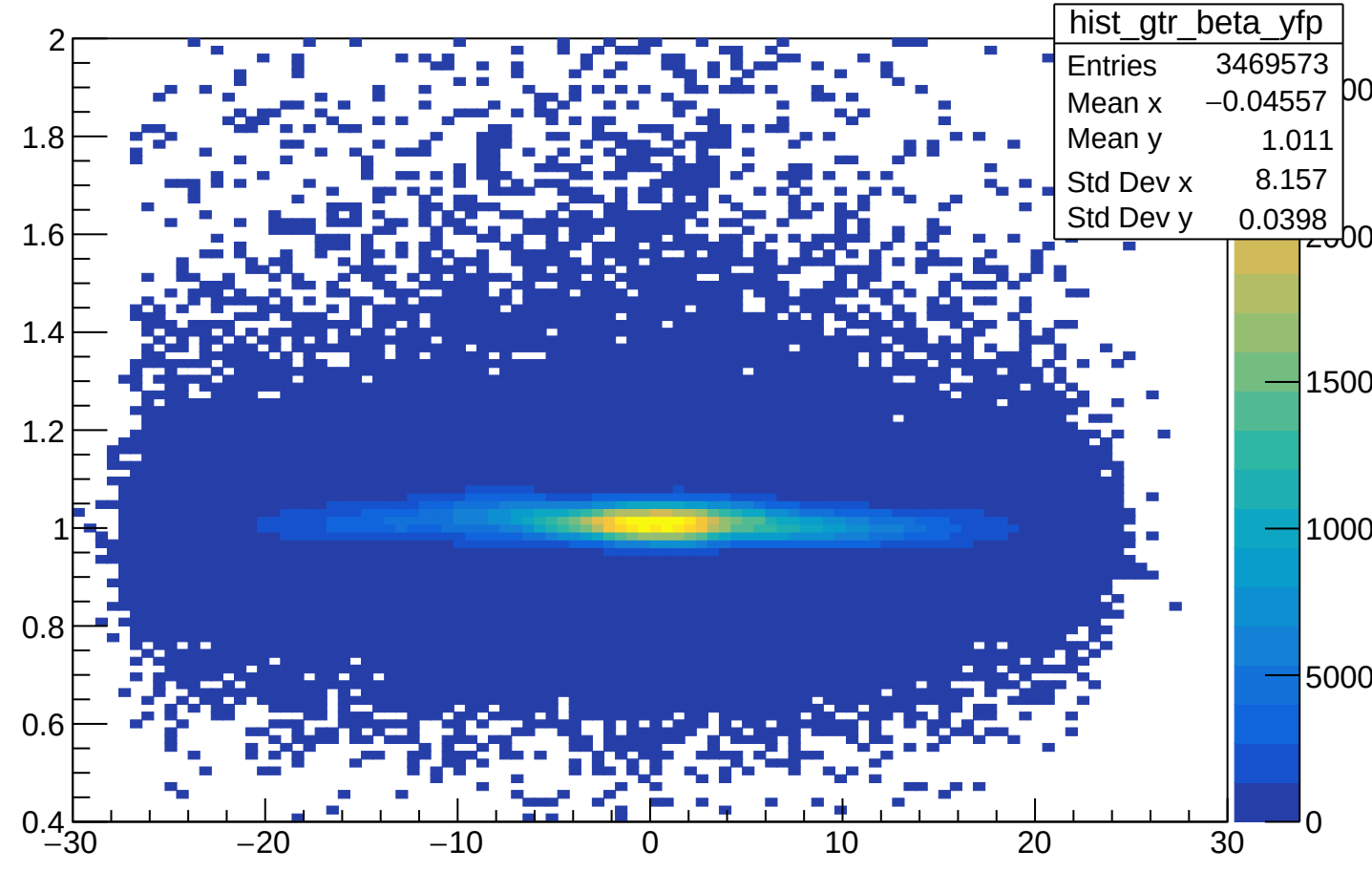

etottracknorm
hist_etottracknorm
Entries 3469573
Mean 0.7962
Std Dev 0.4252
x = 0.7
10^6
10^5
10^4
10^3
10^2
10
1
0
1
2
3
4
5
6
7
8

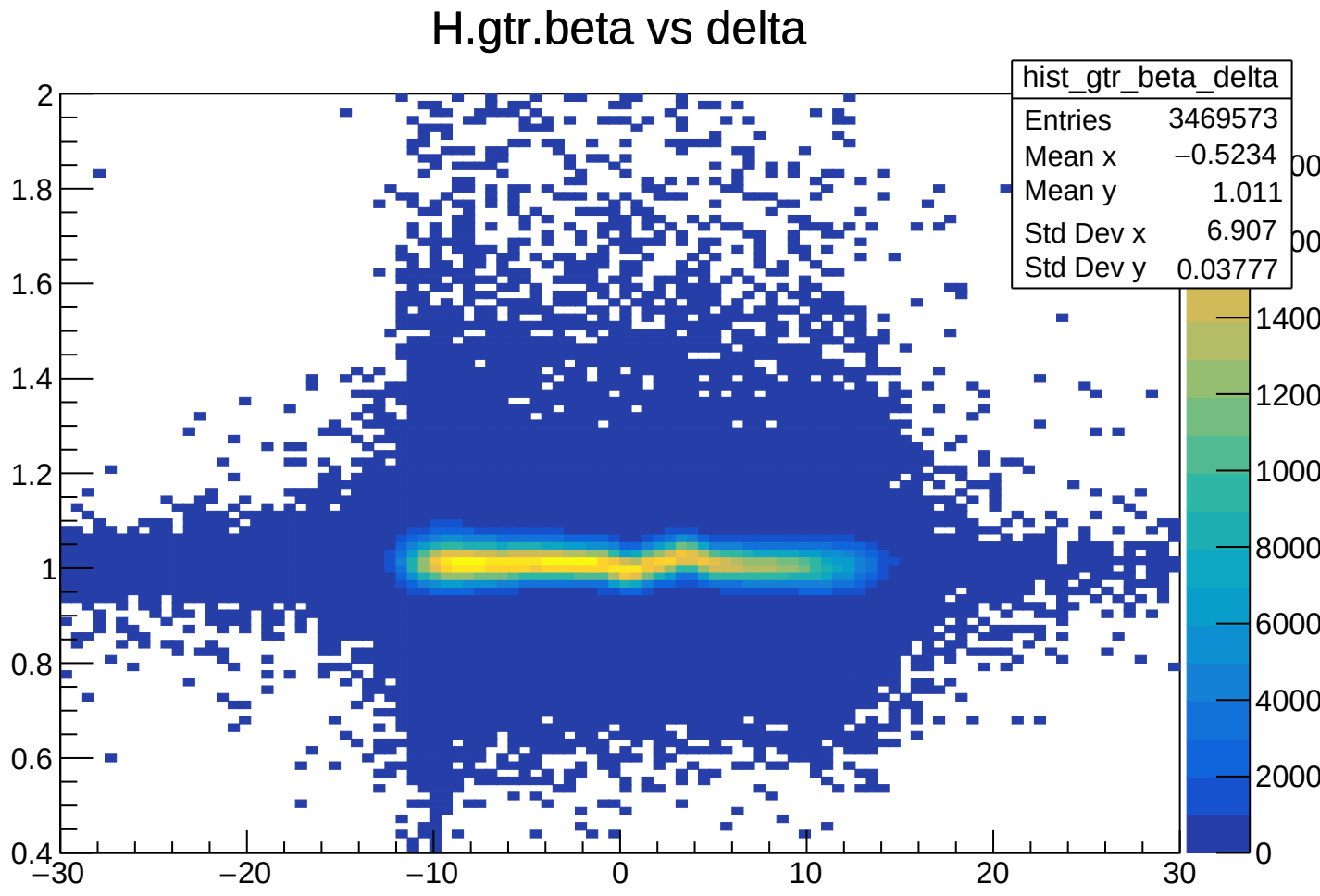

x = 0.7
npeSum
hist_npeSum
Entries 3469573
Mean 10.45
Std Dev 5.662
10^5
10^4
10^3
10^2
10
0
10
20
30
40
50
60
70

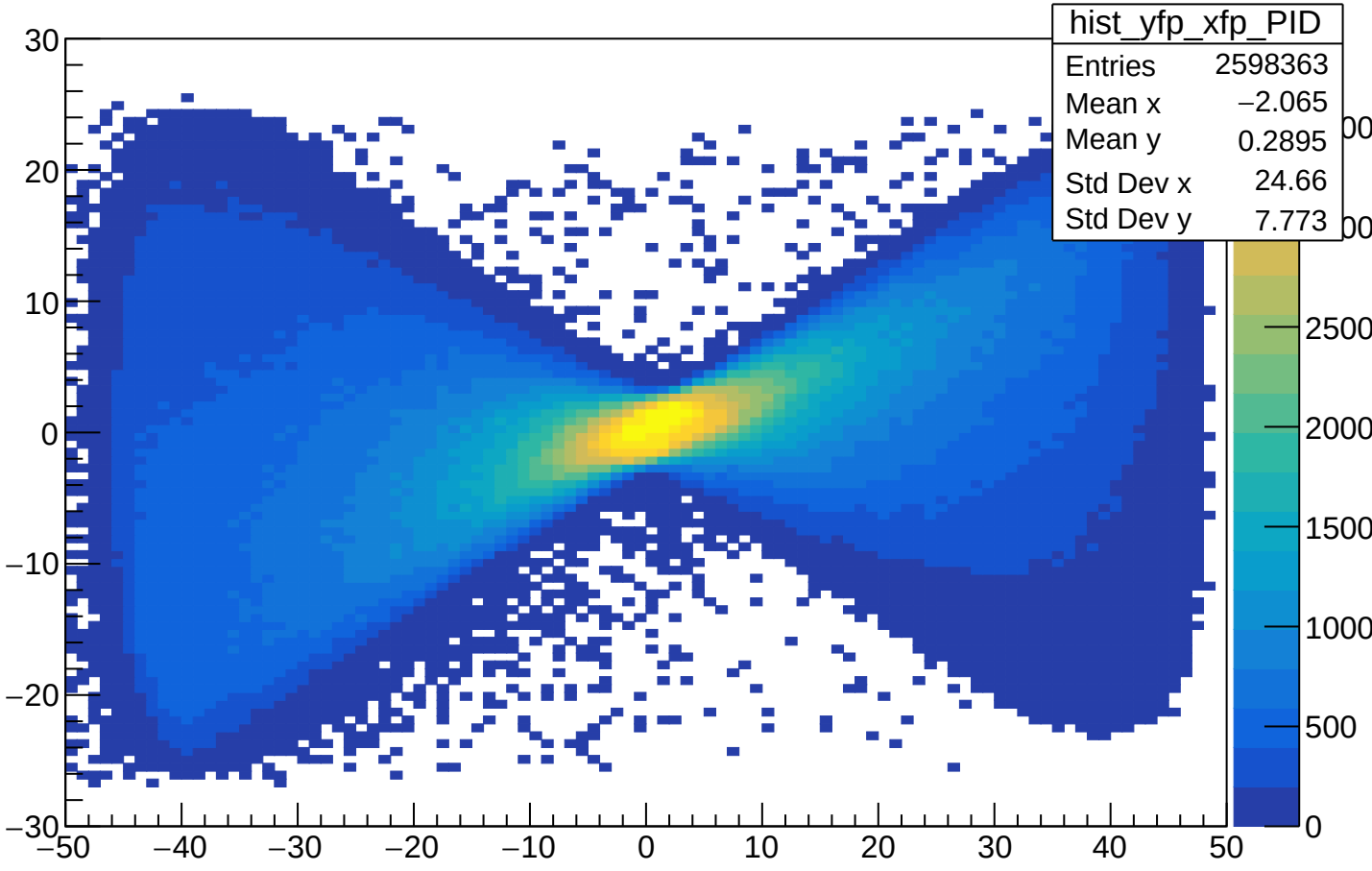

delta
hist_delta
Entries 3469573
Mean −0.5353
Std Dev 6.915
x = -8
x = 8
10^5
10^4
10^3
10^2
10
−30
−20
−10
0
10
20
30

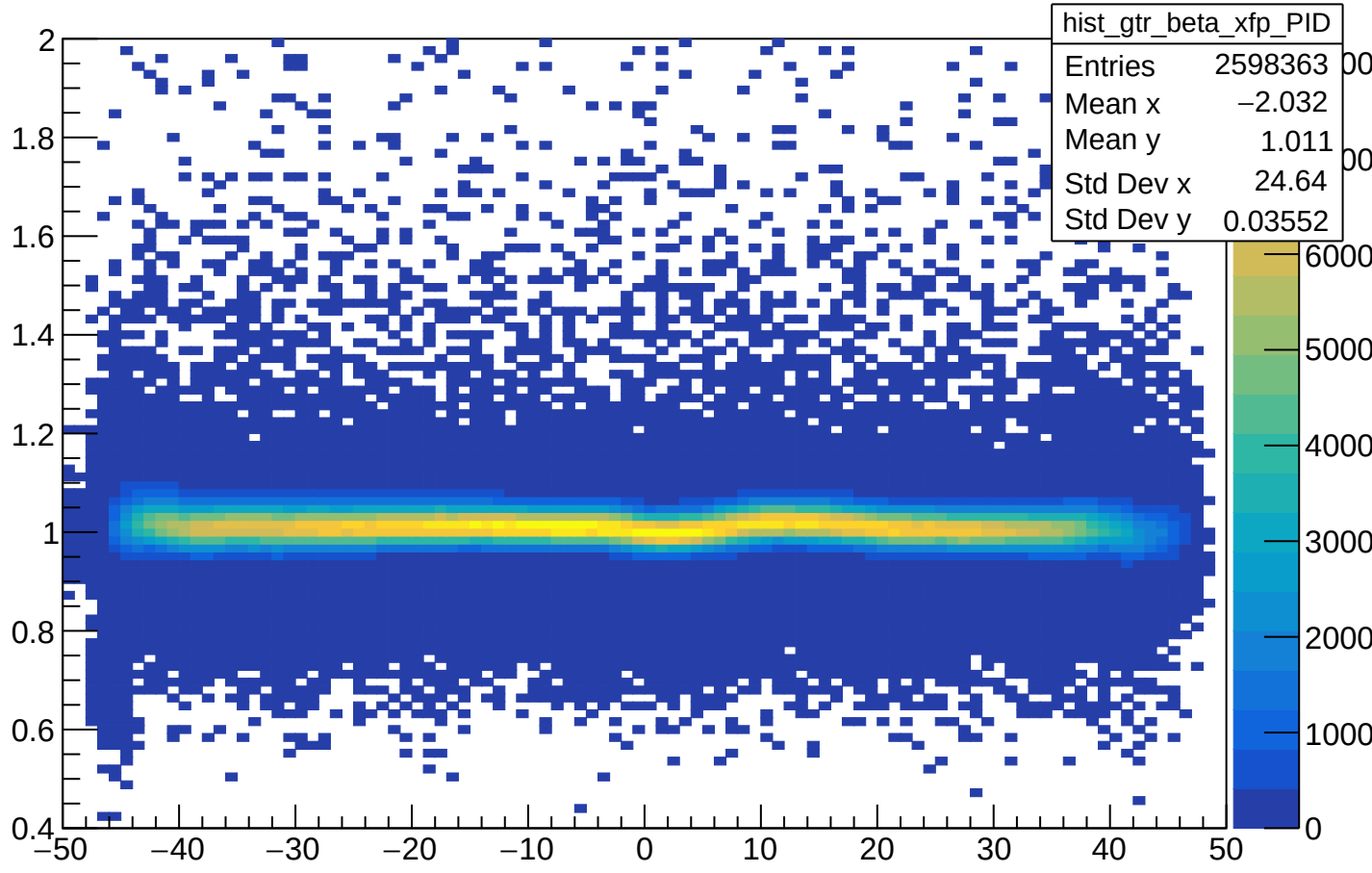

focal plane
hist_yfp_xfp
Entries 3469573
Mean x −3.38
Mean y −0.05709
Std Dev x 25.07
Std Dev y 8.2
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
3000
2500
2000
1500
1000
500
0

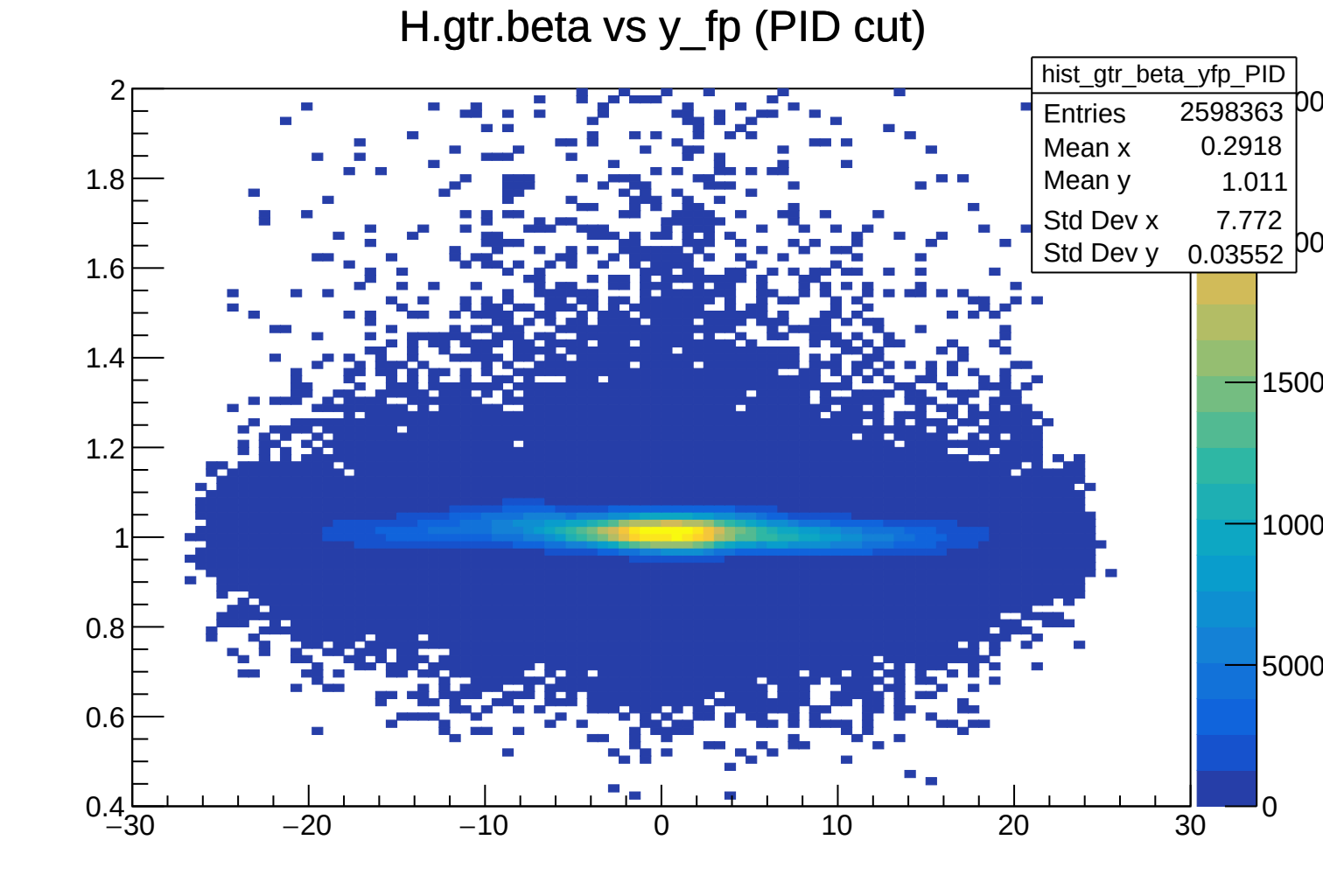

H.gtr.beta vs x_fp
hist_gtr_beta_xfp
Entries 3469573
Mean x −3.253
Mean y 1.011
Std Dev x 25.02
Std Dev y 0.03949
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−50
−40
−30
−20
−10
0
10
20
30
40
50
6000
5000
4000
3000
2000
1000
0

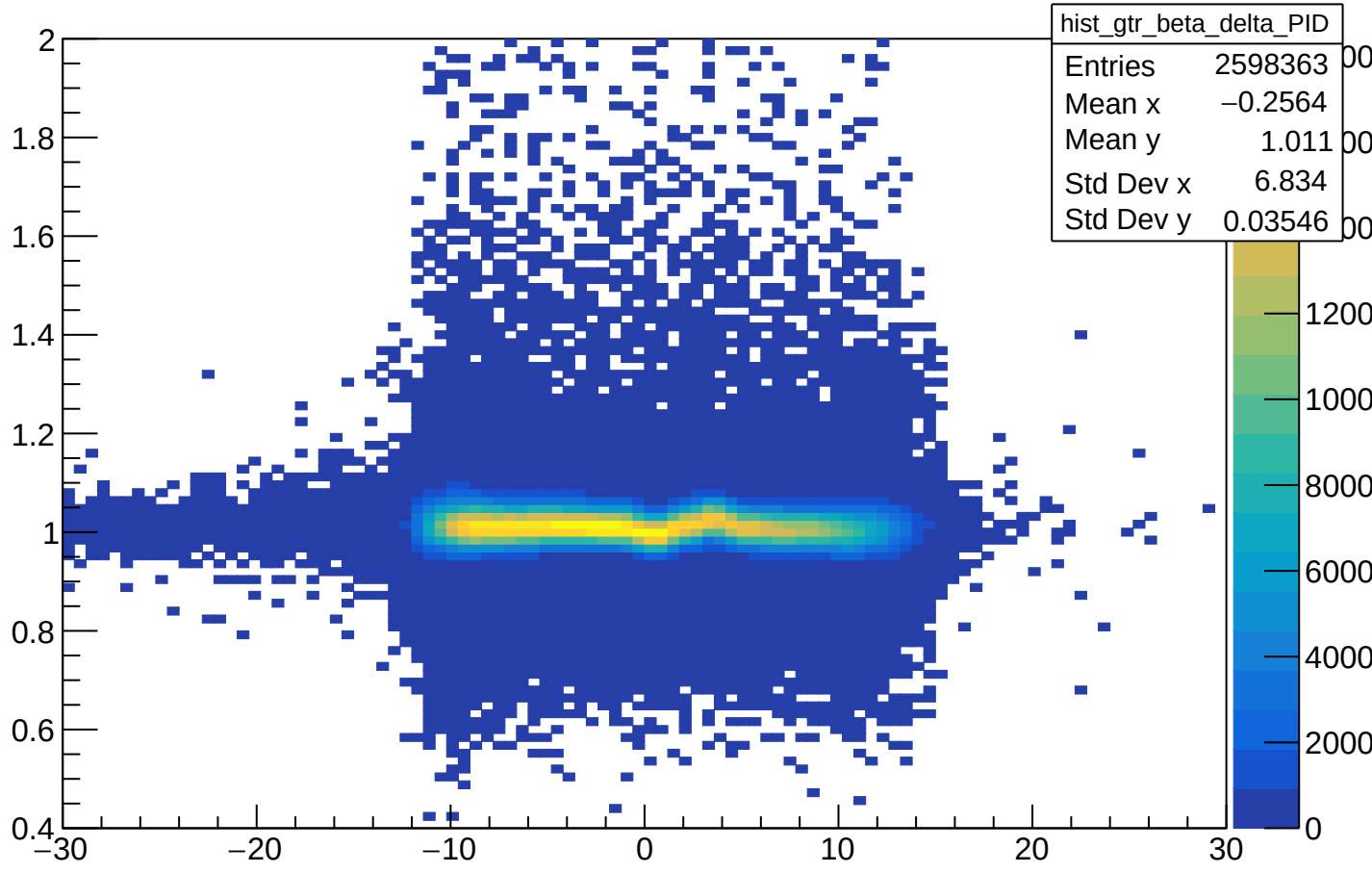

H.gtr.beta vs y_fp
hist_gtr_beta_yfp
Entries 3469573
Mean x −0.04557
Mean y 1.011
Std Dev x 8.157
Std Dev y 0.0398
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
1500
1000
5000
0

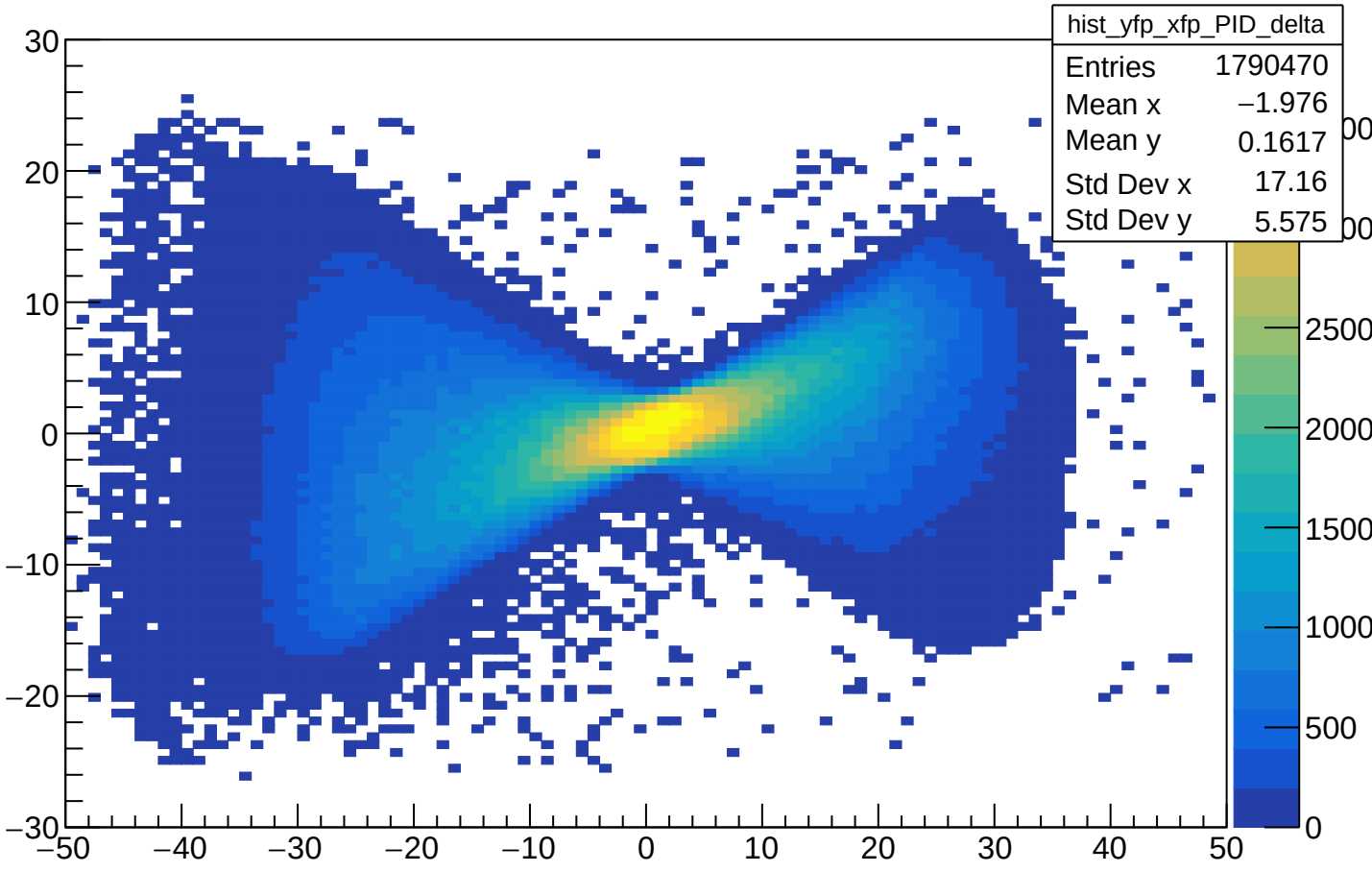

H.gtr.beta vs delta
hist_gtr_beta_delta
Entries 3469573
Mean x −0.5234
Mean y 1.011
Std Dev x 6.907
Std Dev y 0.03777
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
1400
1200
1000
8000
6000
4000
2000
0

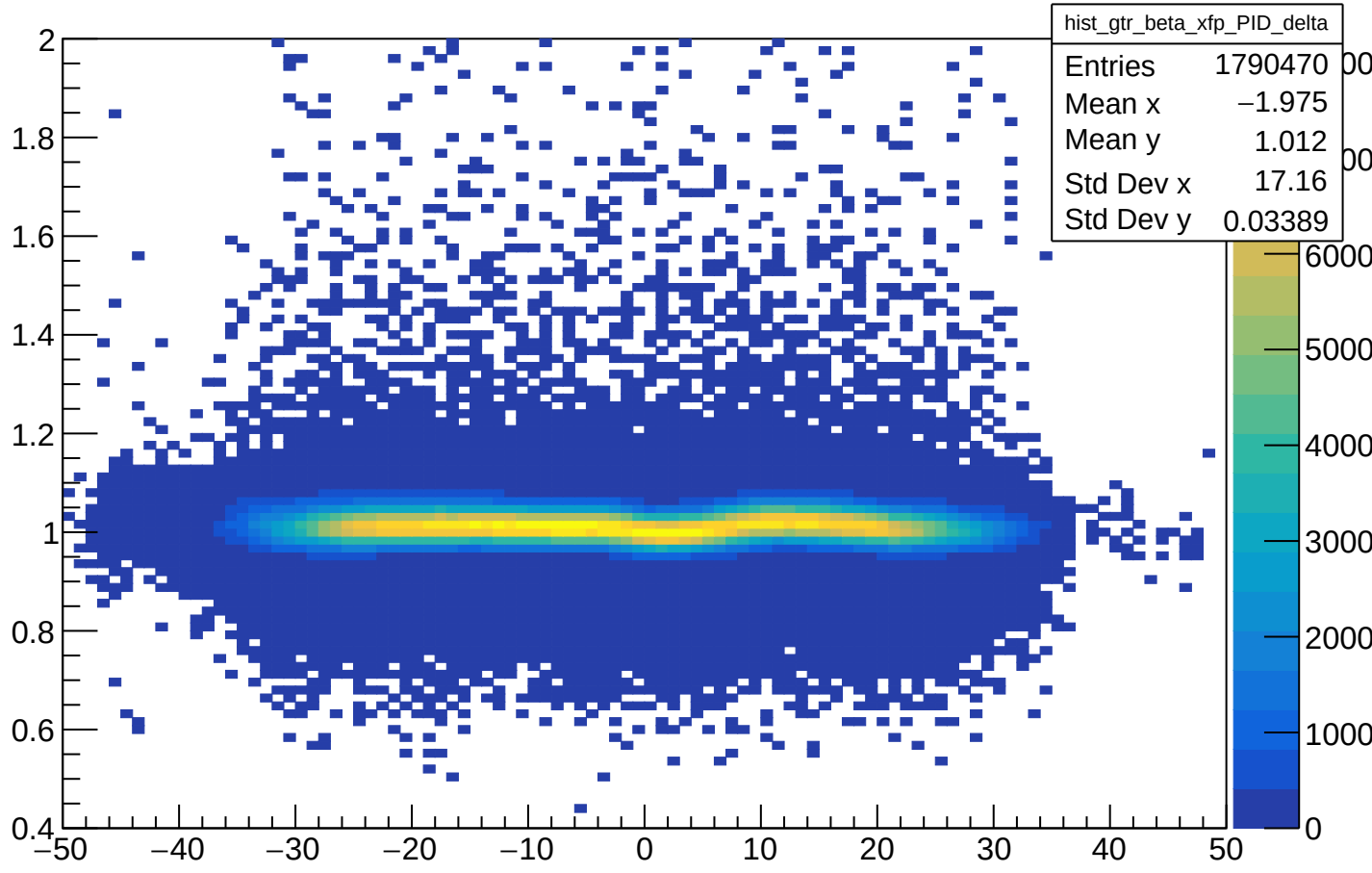

focal plane (PID cut)
hist_yfp_xfp_PID
Entries 2598363
Mean x −2.065
Mean y 0.2895
Std Dev x 24.66
Std Dev y 7.773
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
2500
2000
1500
1000
500
0

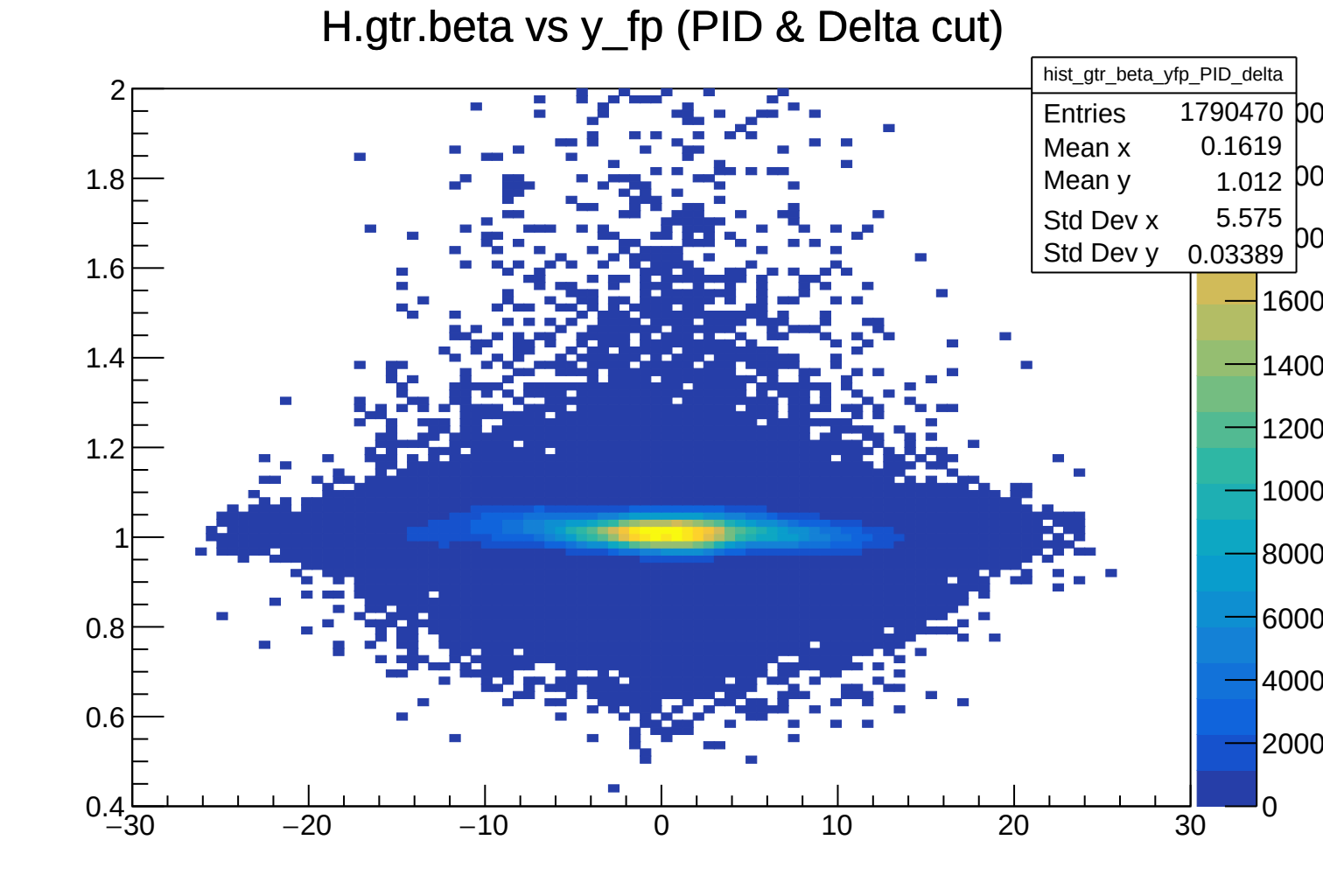

H.gtr.beta vs x_fp (PID cut)
hist_gtr_beta_xfp_PID
Entries 2598363
Mean x −2.032
Mean y 1.011
Std Dev x 24.64
Std Dev y 0.03552
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−50
−40
−30
−20
−10
0
10
20
30
40
50
6000
5000
4000
3000
2000
1000
0

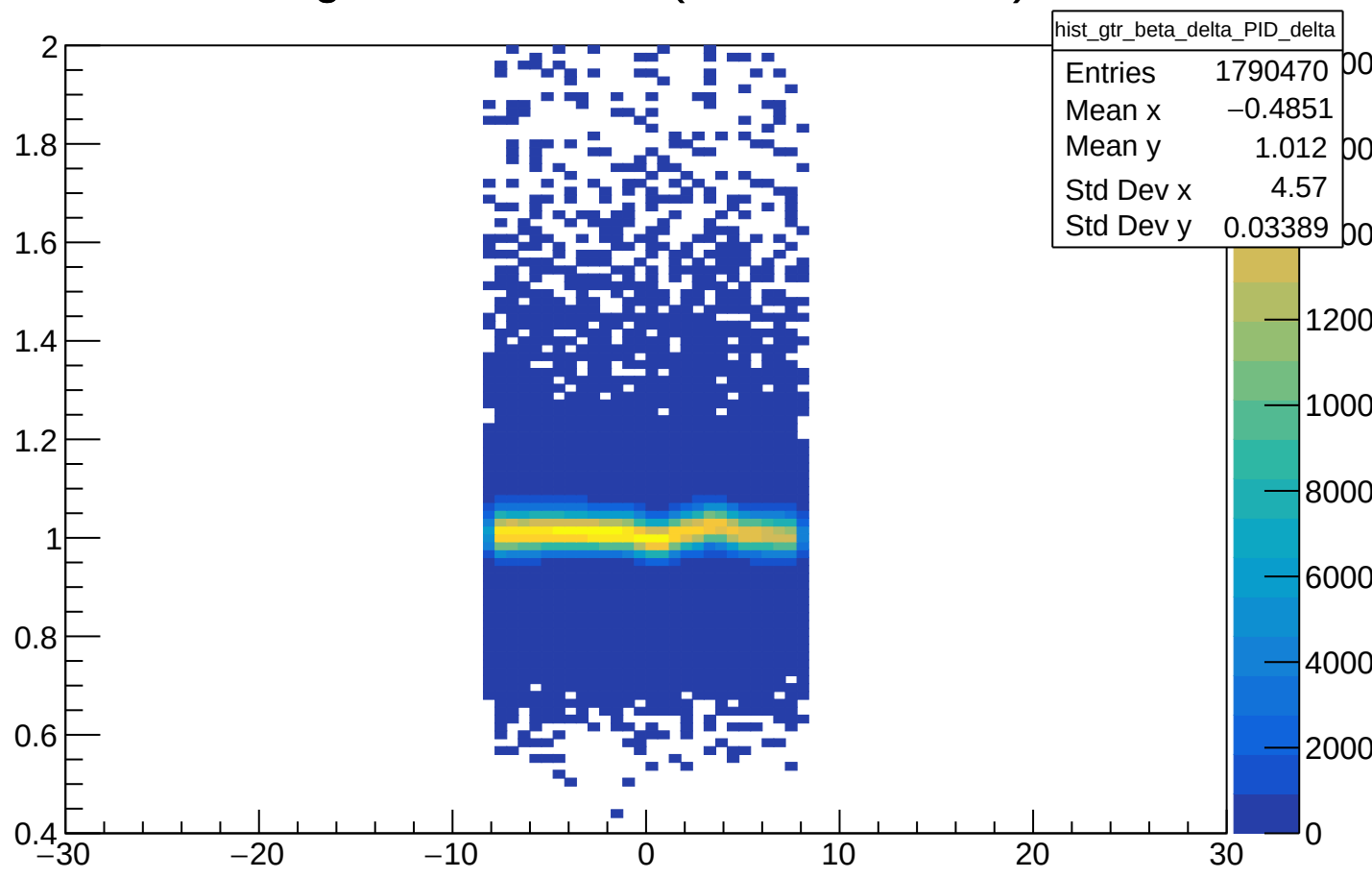

H.gtr.beta vs y_fp (PID cut)
hist_gtr_beta_yfp_PID
Entries 2598363
Mean x 0.2918
Mean y 1.011
Std Dev x 7.772
Std Dev y 0.03552
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
1500
1000
5000
0


H.gtr.beta vs delta (PID cut)
hist_gtr_beta_delta_PID
Entries 2598363
Mean x −0.2564
Mean y 1.011
Std Dev x 6.834
Std Dev y 0.03546
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
8000
6000
4000
2000
0


focal plane (PID & Delta cut)
hist_yfp_xfp_PID_delta
Entries 1790470
Mean x −1.976
Mean y 0.1617
Std Dev x 17.16
Std Dev y 5.575
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
2500
2000
1500
1000
500
0


H.gtr.beta vs x_fp (PID & Delta cut)
hist_gtr_beta_xfp_PID_delta
Entries 1790470
Mean x −1.975
Mean y 1.012
Std Dev x 17.16
Std Dev y 0.03389
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
6000
5000
4000
3000
2000
1000
0


H.gtr.beta vs y_fp (PID & Delta cut)
hist_gtr_beta_yfp_PID_delta
Entries 1790470
Mean x 0.1619
Mean y 1.012
Std Dev x 5.575
Std Dev y 0.03389
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
8000
6000
4000
2000
0


H.gtr.beta vs delta (PID & Delta cut)
hist_gtr_beta_delta_PID_delta
Entries 1790470
Mean x −0.4851
Mean y 1.012
Std Dev x 4.57
Std Dev y 0.03389
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
8000
6000
4000
2000
0