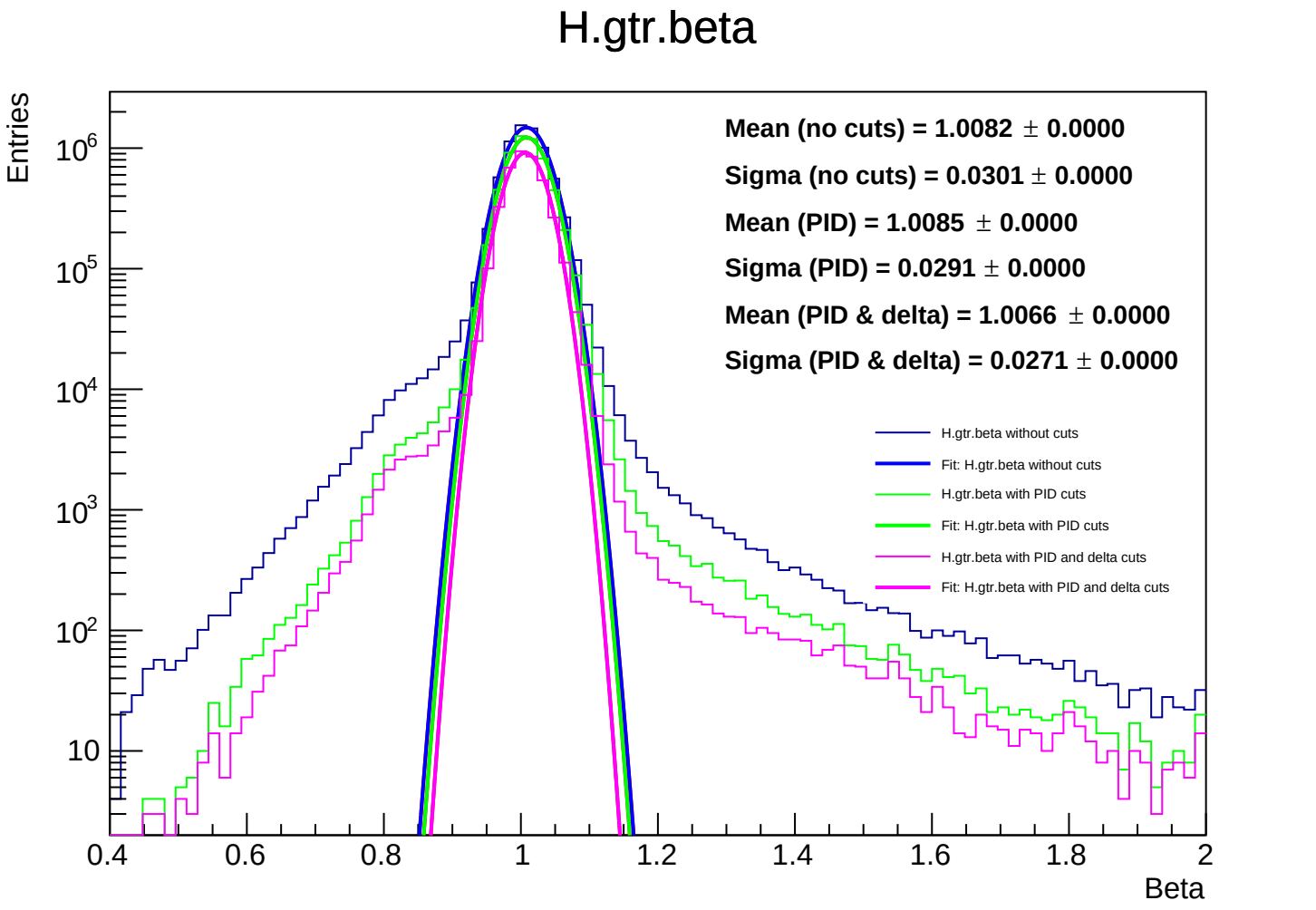
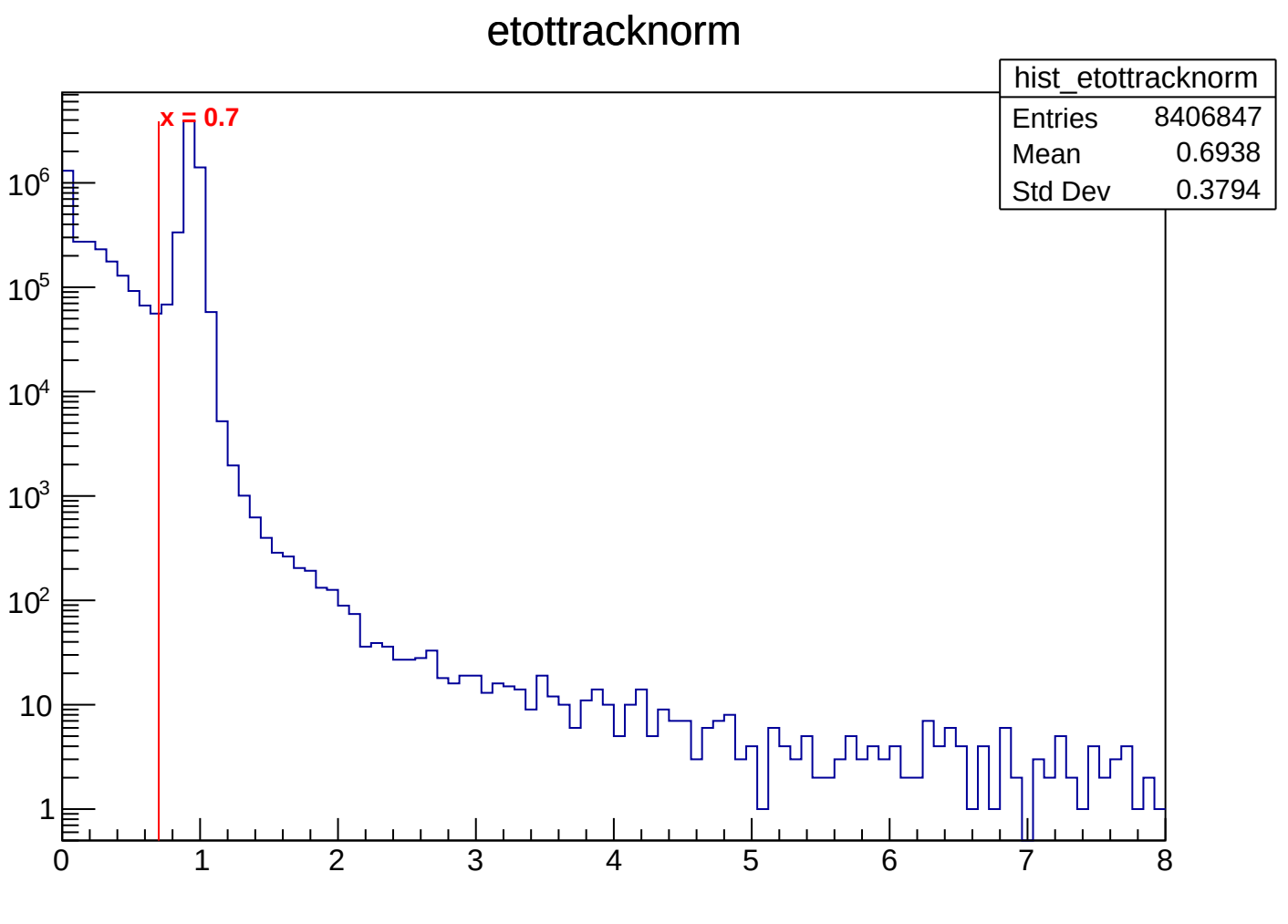
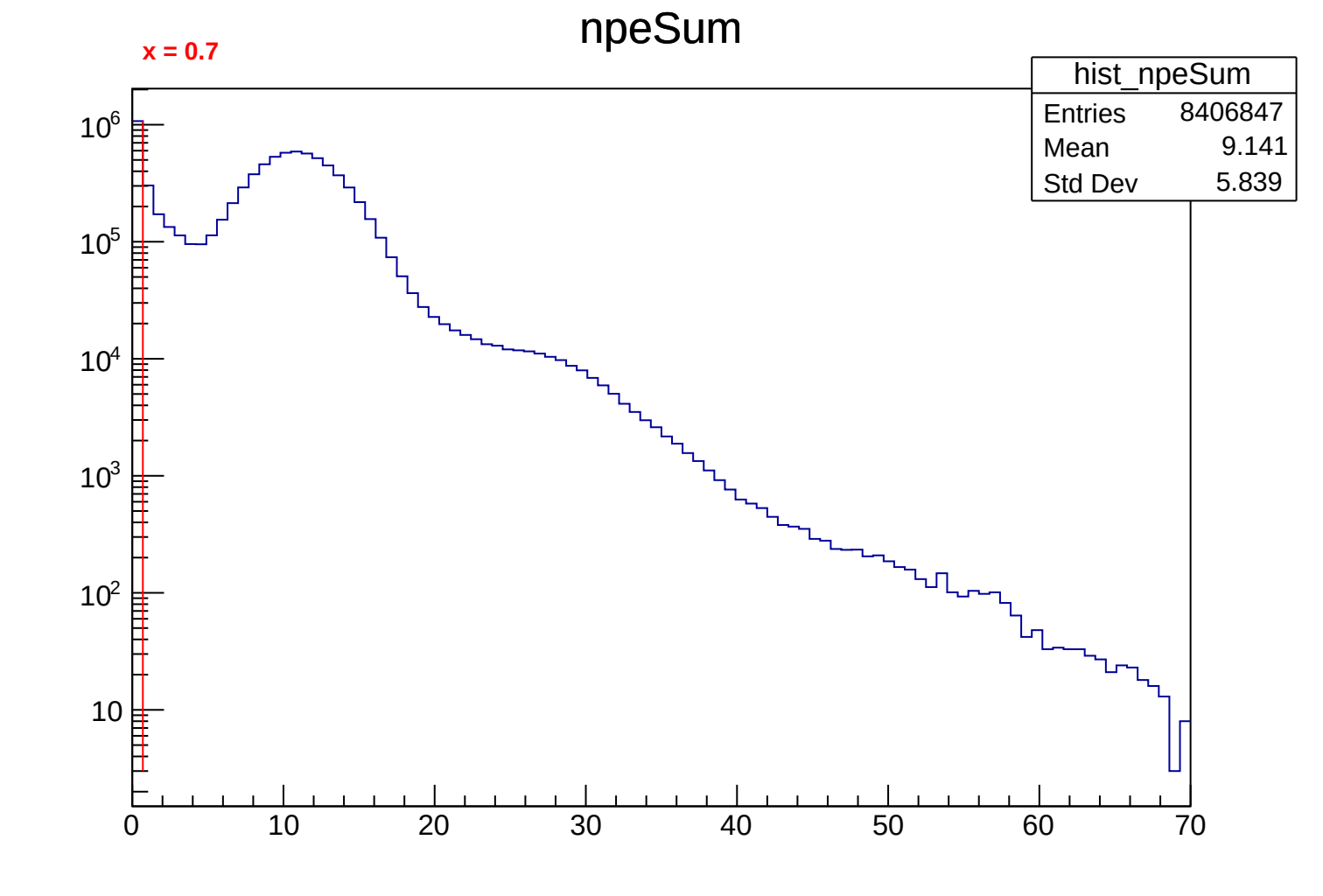
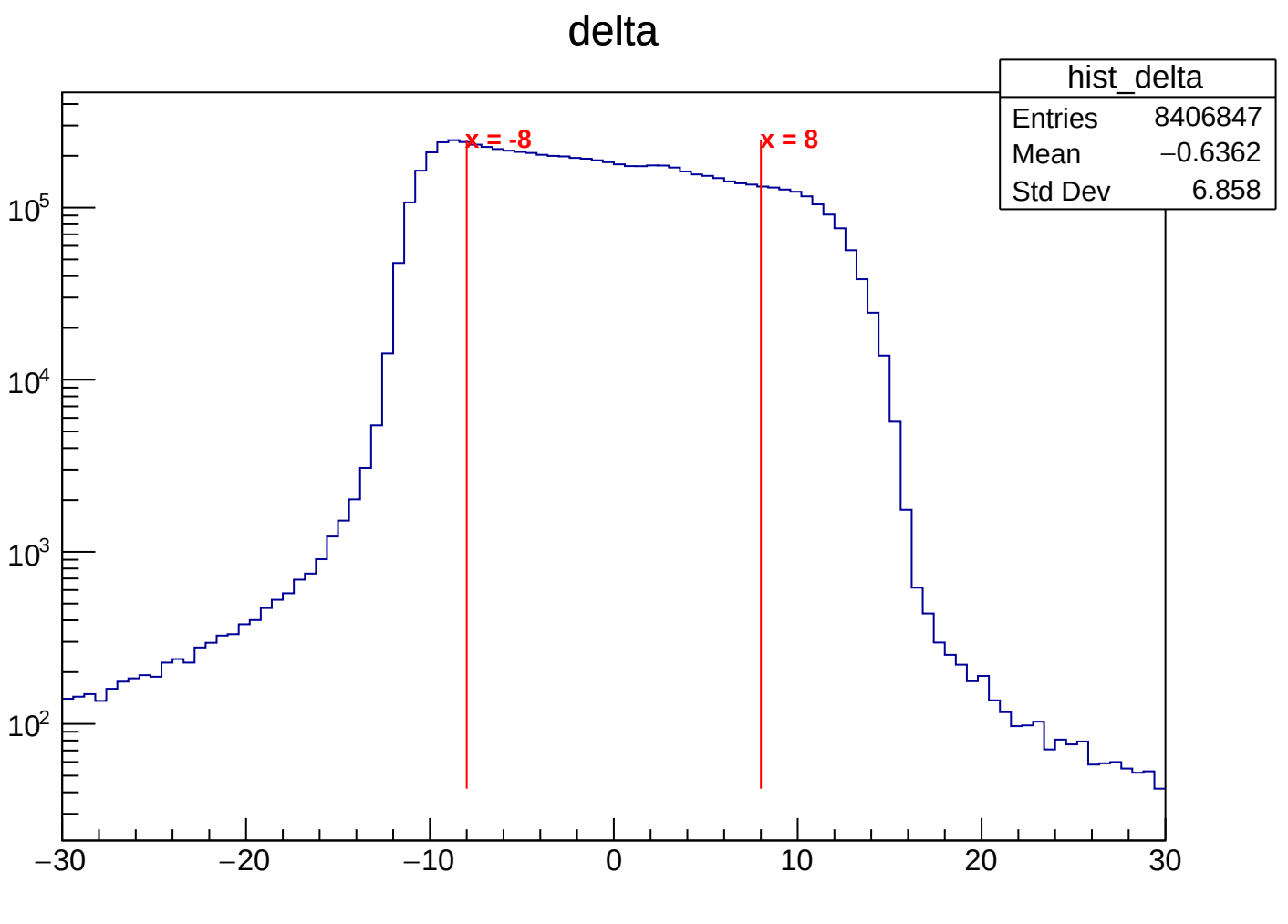
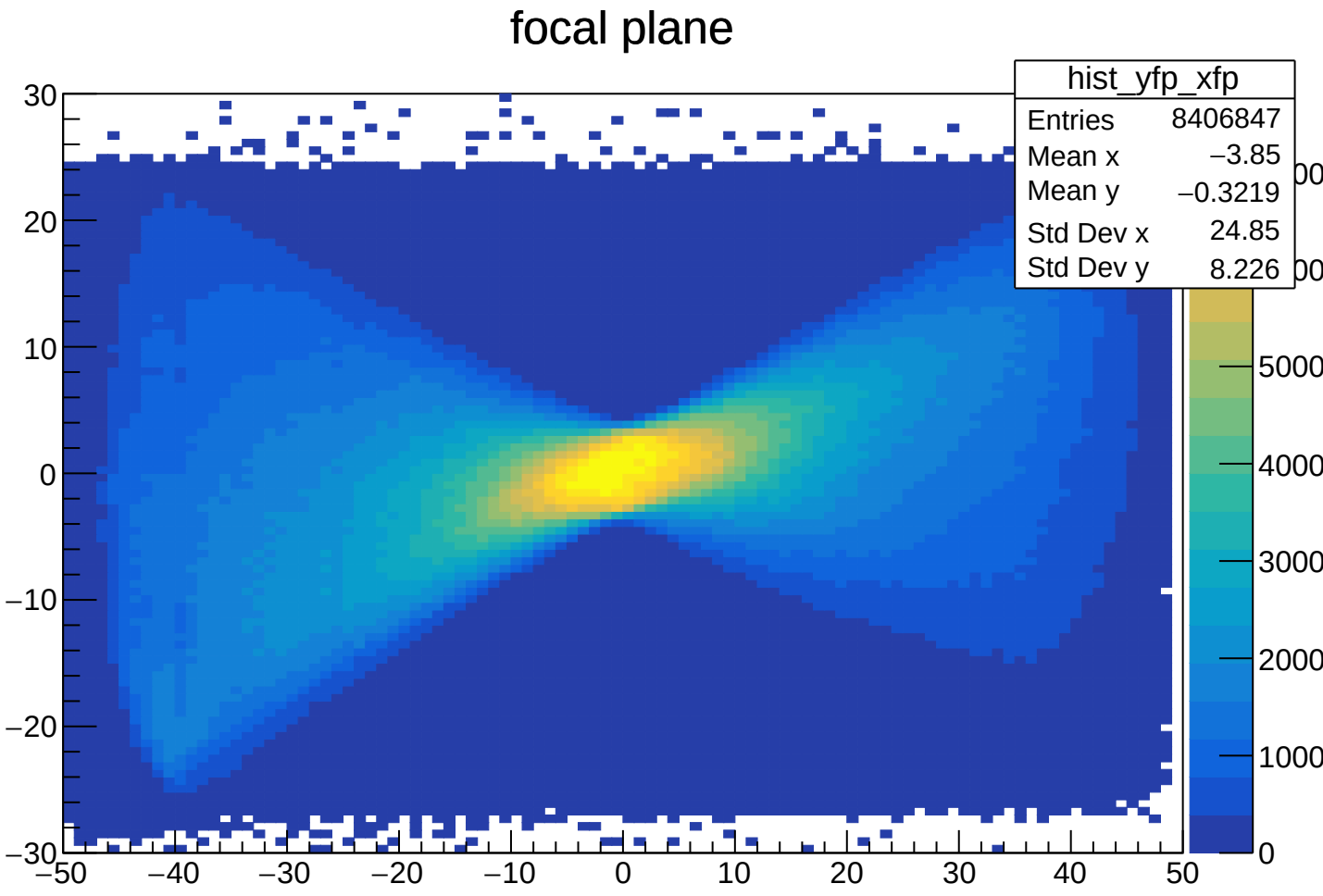
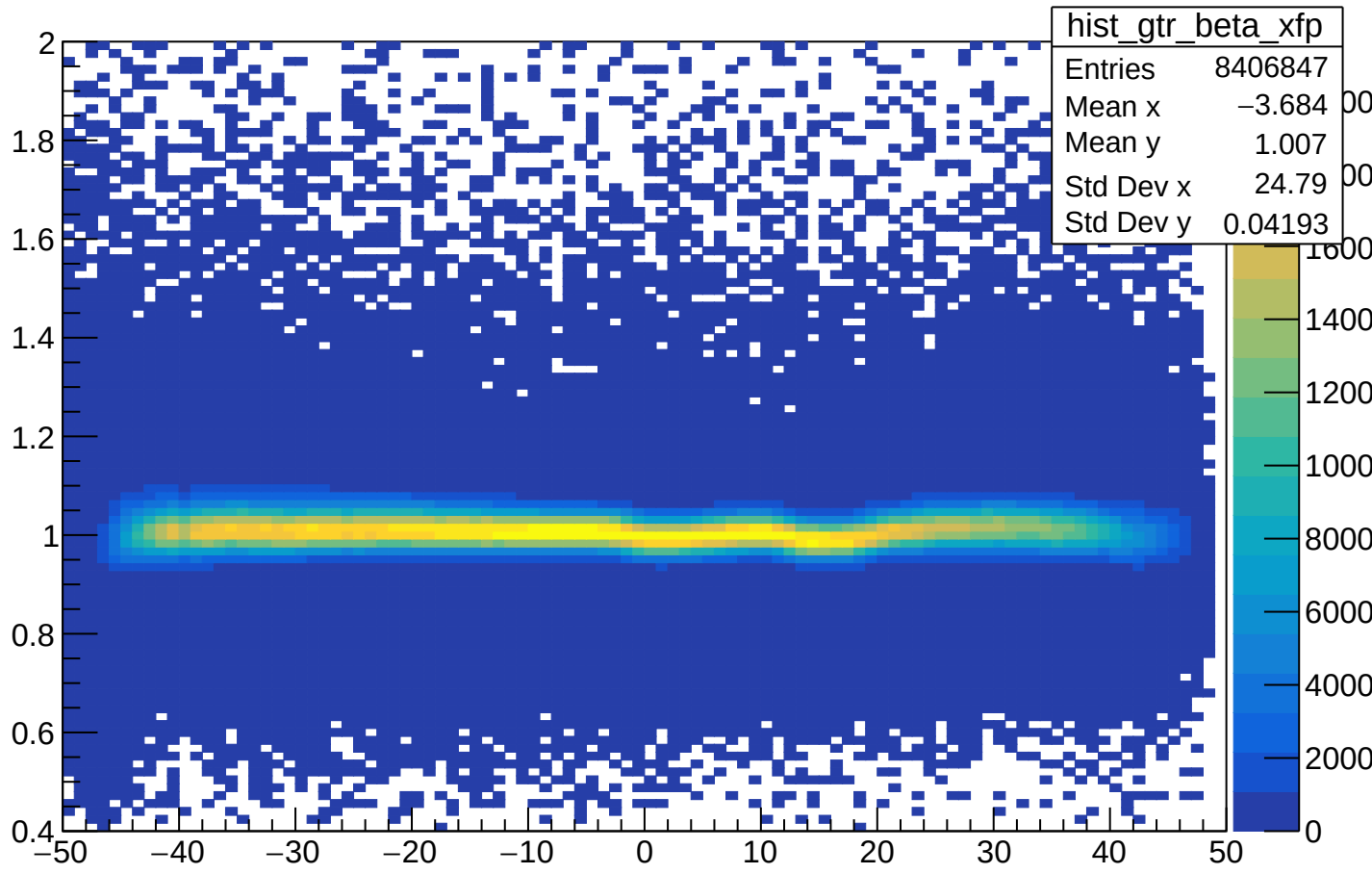

H.gtr.beta
Entries
Beta
Mean (no cuts) = 1.0082 ± 0.0000
Sigma (no cuts) = 0.0301 ± 0.0000
Mean (PID) = 1.0085 ± 0.0000
Sigma (PID) = 0.0291 ± 0.0000
Mean (PID & delta) = 1.0066 ± 0.0000
Sigma (PID & delta) = 0.0271 ± 0.0000
H.gtr.beta without cuts
Fit: H.gtr.beta without cuts
H.gtr.beta with PID cuts
Fit: H.gtr.beta with PID cuts
H.gtr.beta with PID and delta cuts
Fit: H.gtr.beta with PID and delta cuts

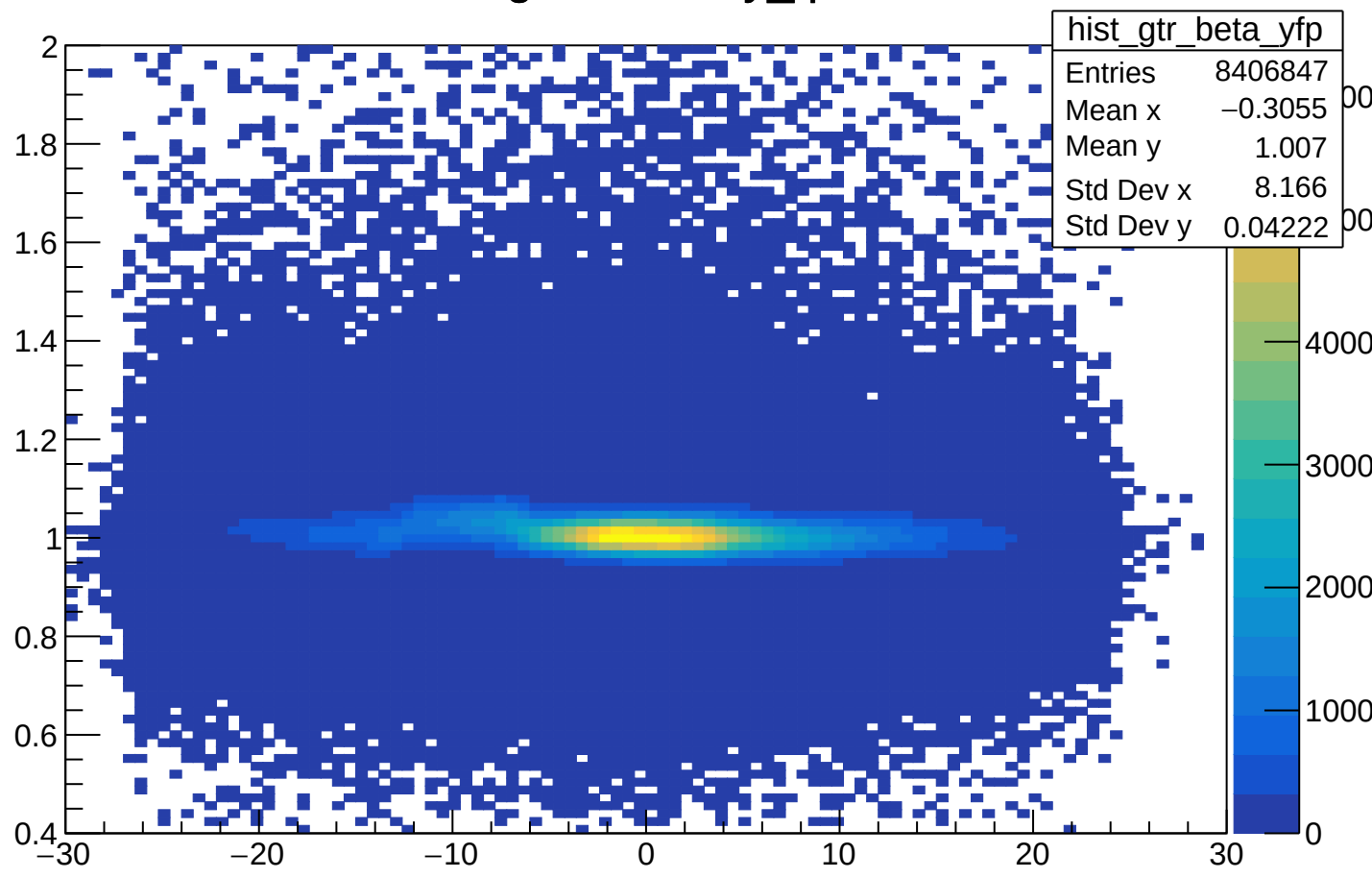

etottracknorm
hist_etottracknorm
Entries 8406847
Mean 0.6938
Std Dev 0.3794
x = 0.7
10^6
10^5
10^4
10^3
10^2
10
1
0
1
2
3
4
5
6
7
8

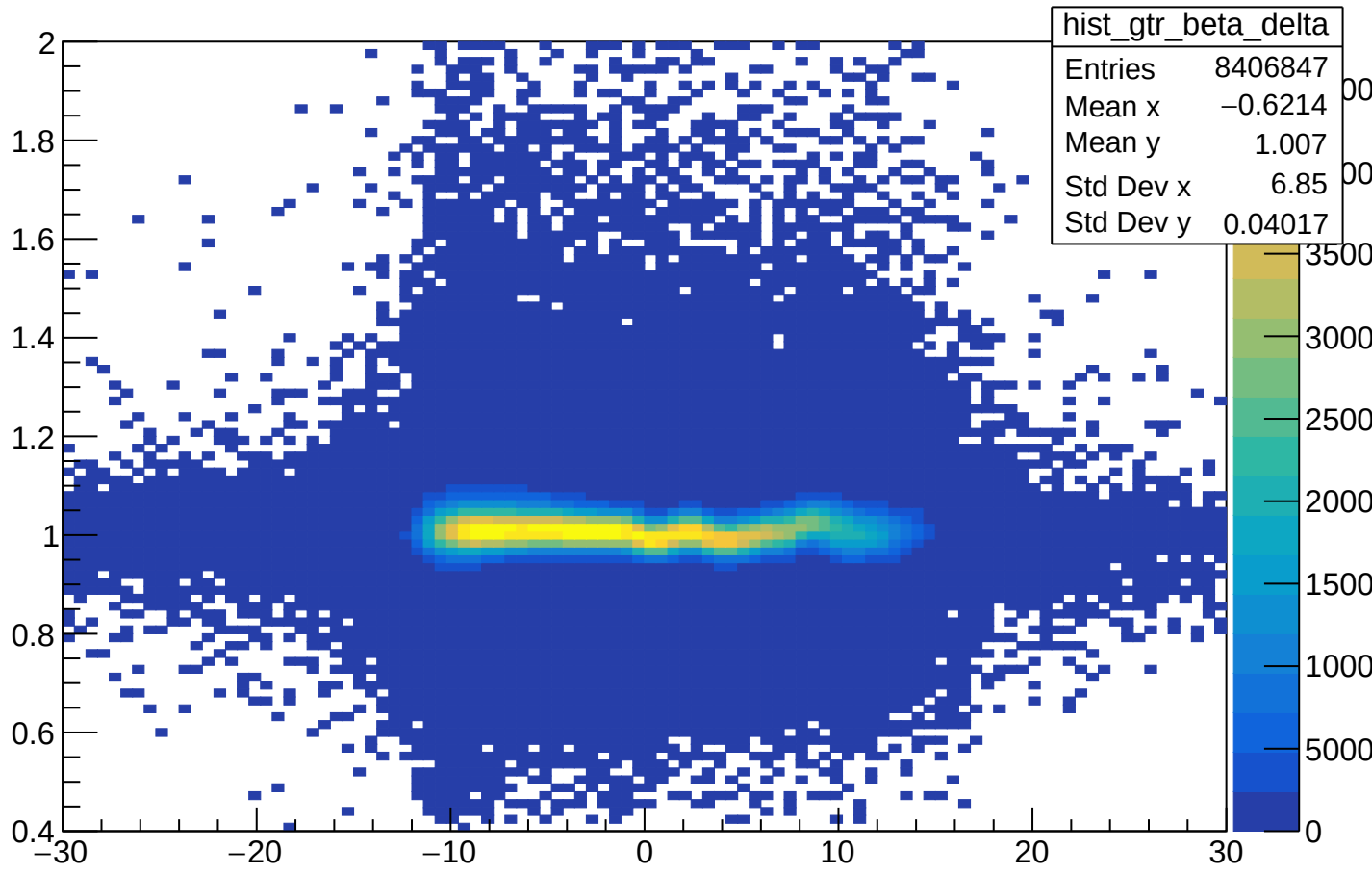

npeSum
x = 0.7
hist_npeSum
Entries 8406847
Mean 9.141
Std Dev 5.839
10^6
10^5
10^4
10^3
10^2
10
0
10
20
30
40
50
60
70

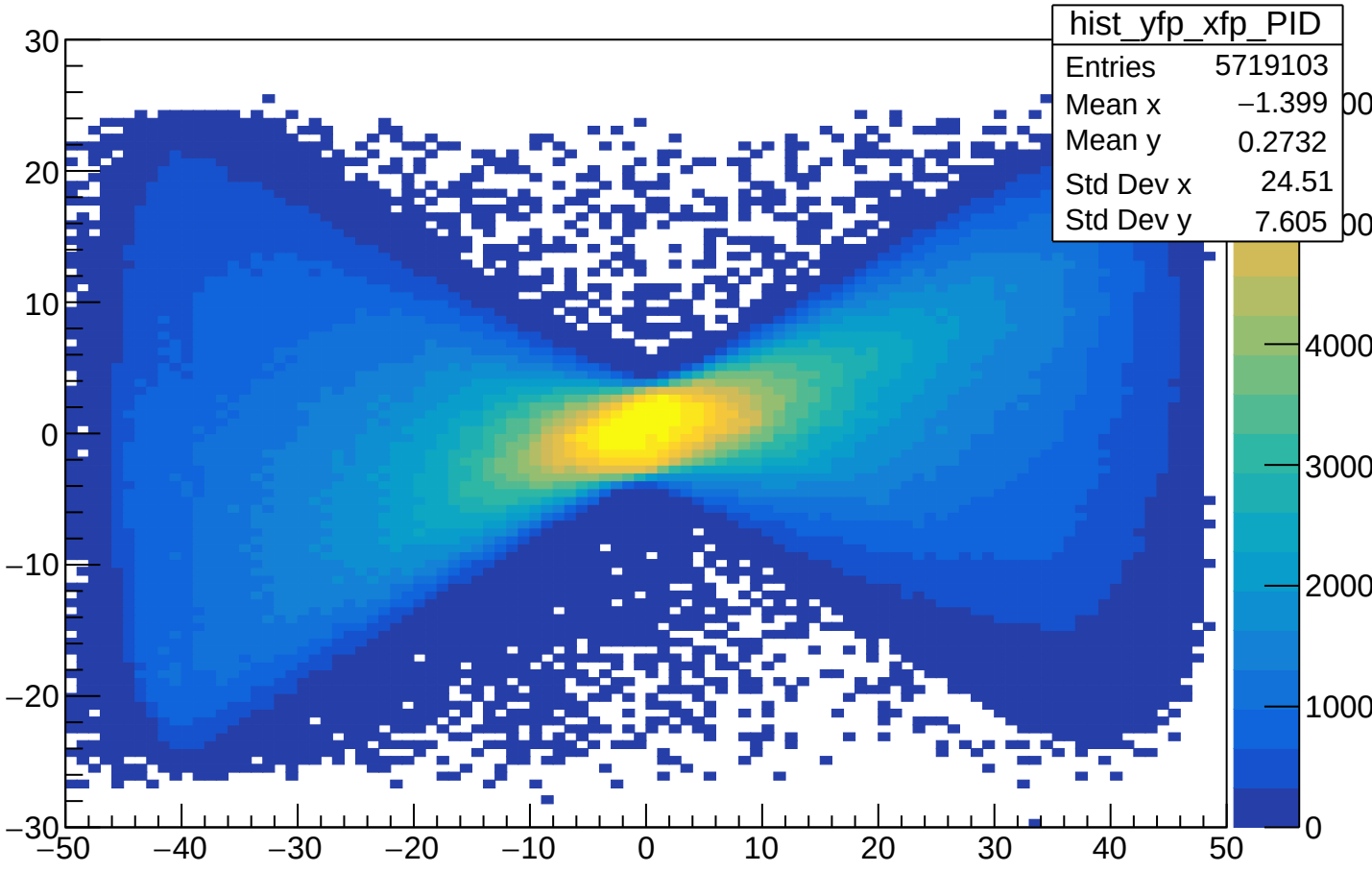

delta
hist_delta
Entries 8406847
Mean −0.6362
Std Dev 6.858
x = -8
x = 8
10^5
10^4
10^3
10^2
−30
−20
−10
0
10
20
30

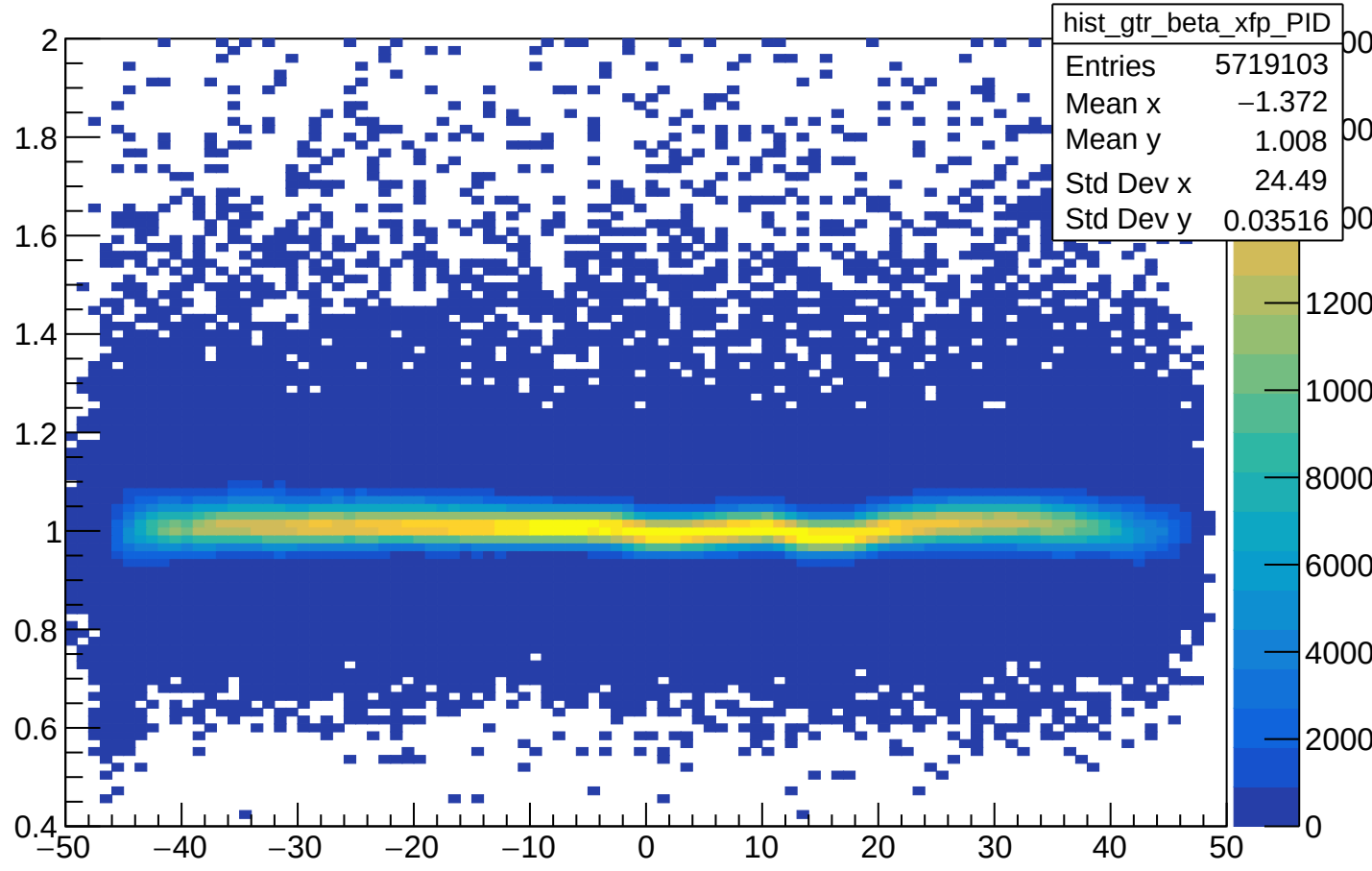

focal plane
hist_yfp_xfp
Entries 8406847
Mean x −3.85
Mean y −0.3219
Std Dev x 24.85
Std Dev y 8.226
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
5000
4000
3000
2000
1000
0

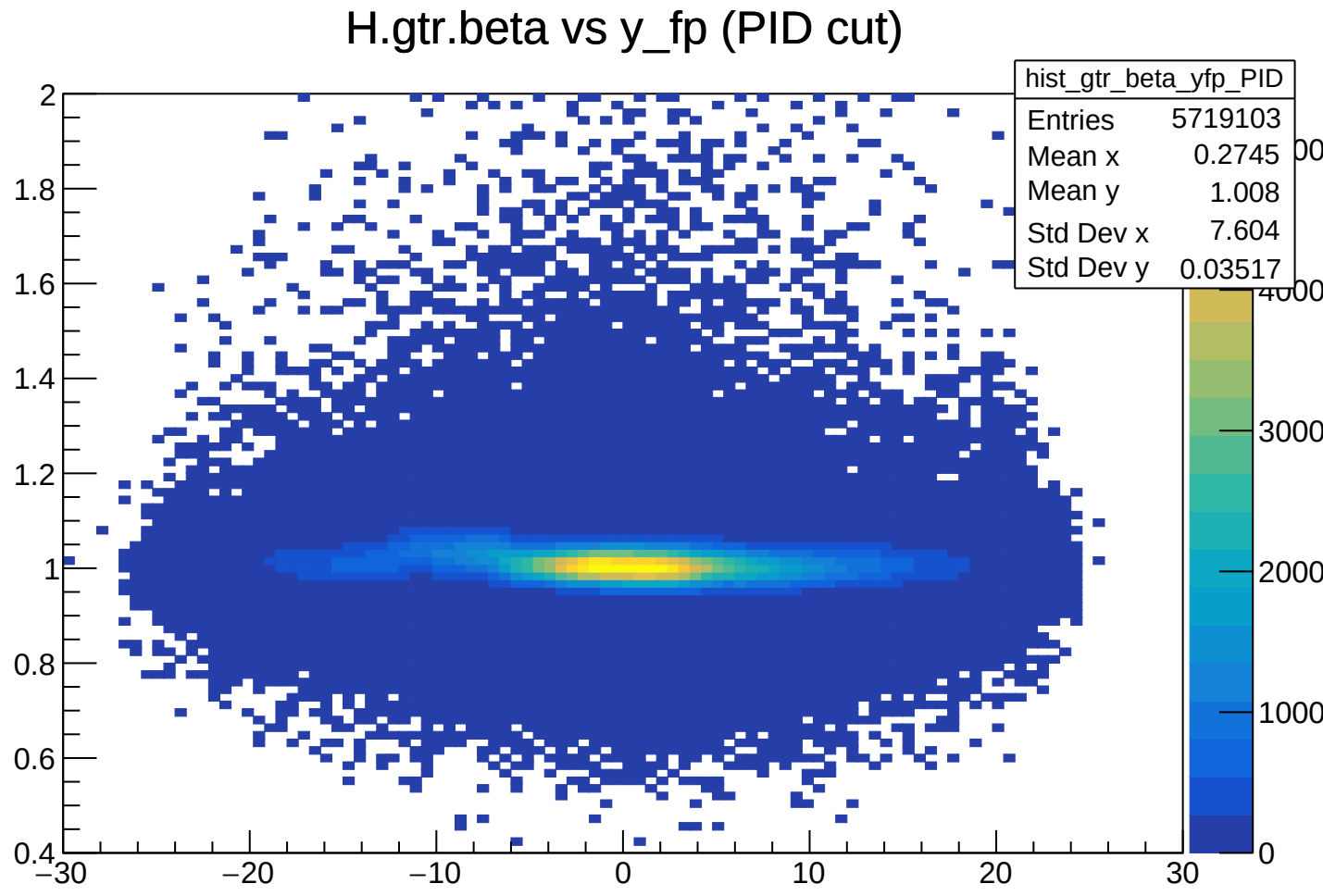

H.gtr.beta vs x_fp
hist_gtr_beta_xfp
Entries 8406847
Mean x −3.684
Mean y 1.007
Std Dev x 24.79
Std Dev y 0.04193
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−50
−40
−30
−20
−10
0
10
20
30
40
50
1600
1400
1200
1000
8000
6000
4000
2000
0

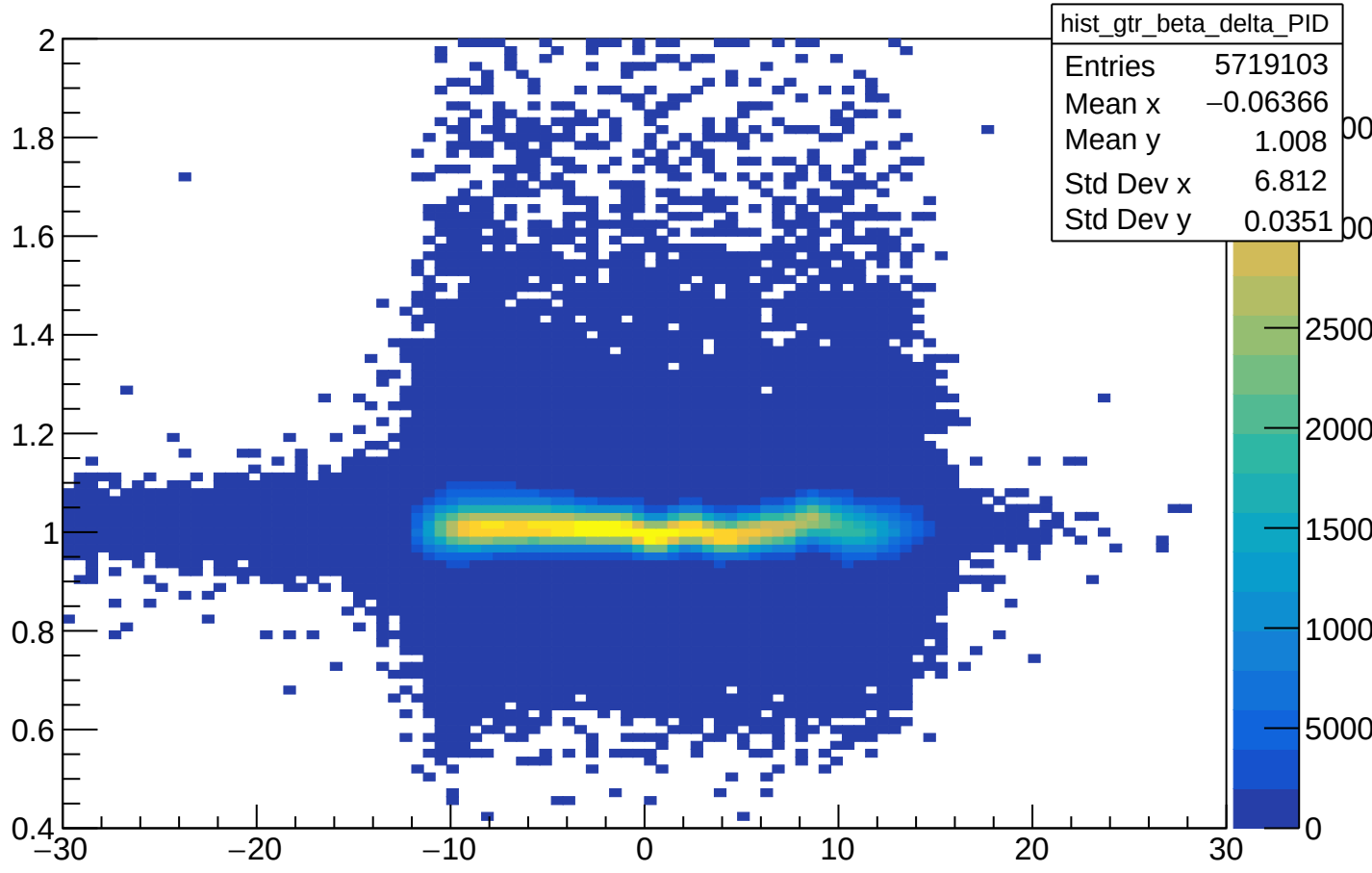

H.gtr.beta vs y_fp
hist_gtr_beta_yfp
Entries 8406847
Mean x −0.3055
Mean y 1.007
Std Dev x 8.166
Std Dev y 0.04222
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
4000
3000
2000
1000
0

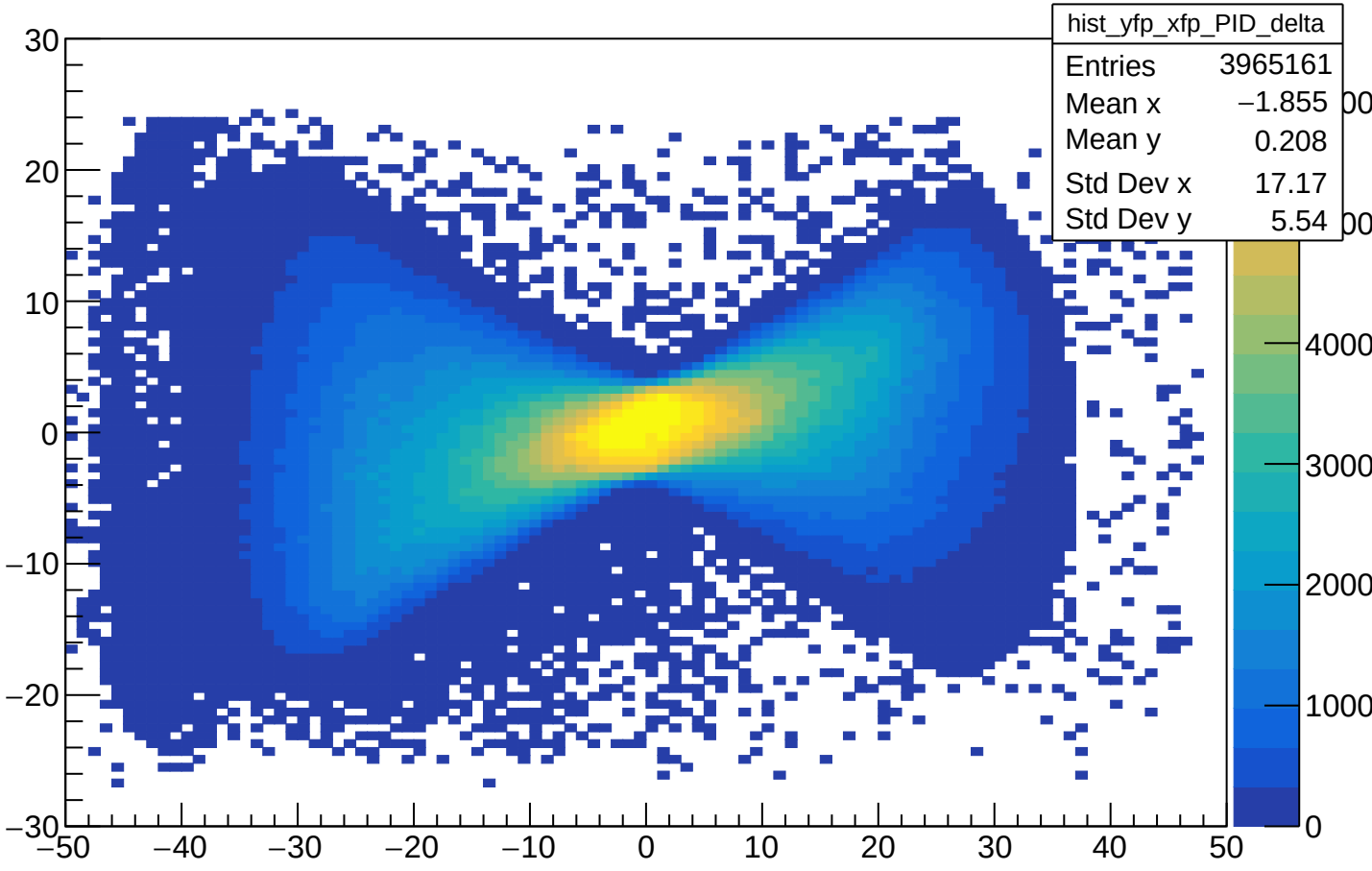

H.gtr.beta vs delta
hist_gtr_beta_delta
Entries 8406847
Mean x −0.6214
Mean y 1.007
Std Dev x 6.85
Std Dev y 0.04017
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
3500
3000
2500
2000
1500
1000
5000
0

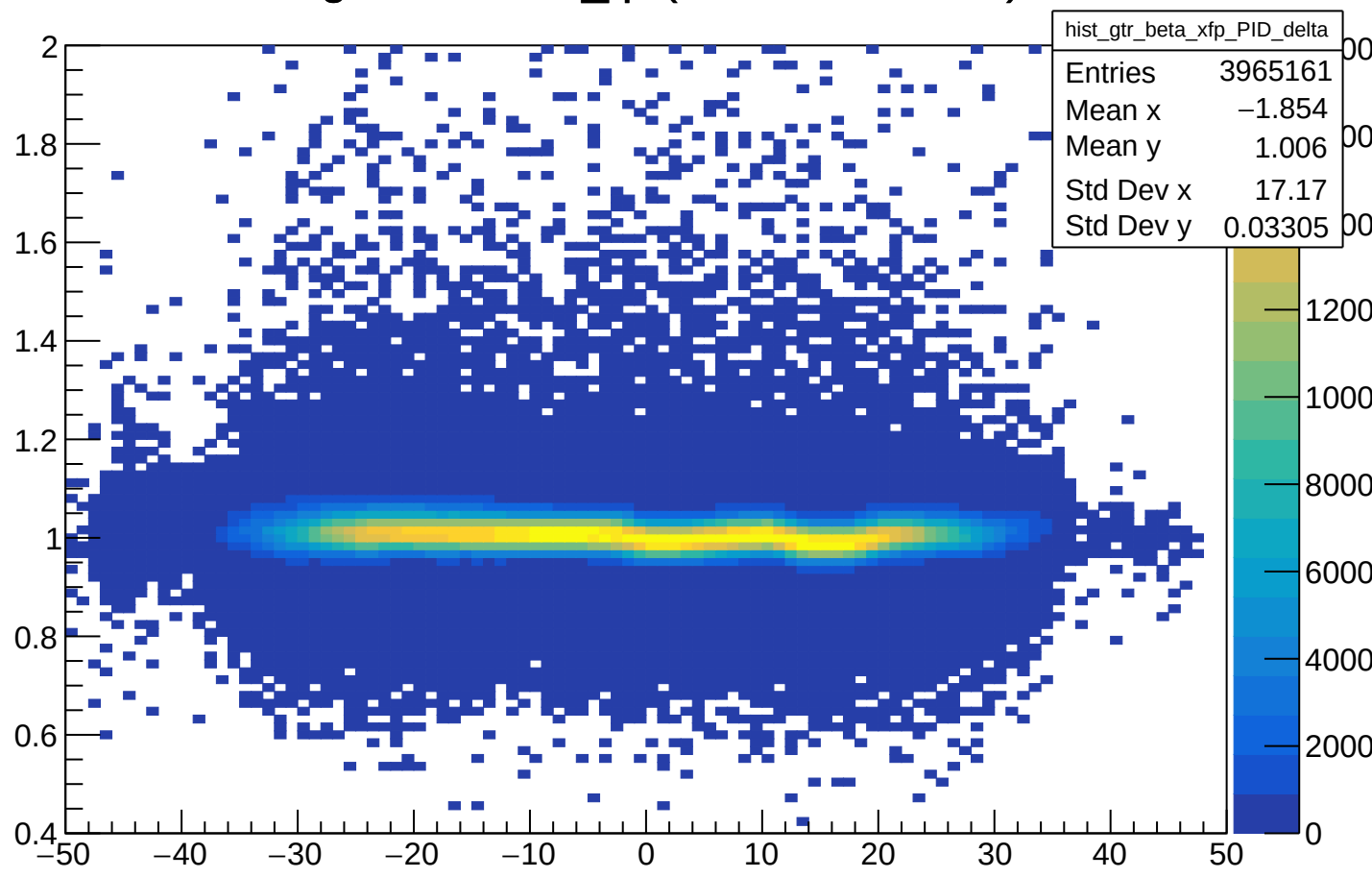

focal plane (PID cut)
hist_yfp_xfp_PID
Entries 5719103
Mean x −1.399
Mean y 0.2732
Std Dev x 24.51
Std Dev y 7.605
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
4000
3000
2000
1000
0

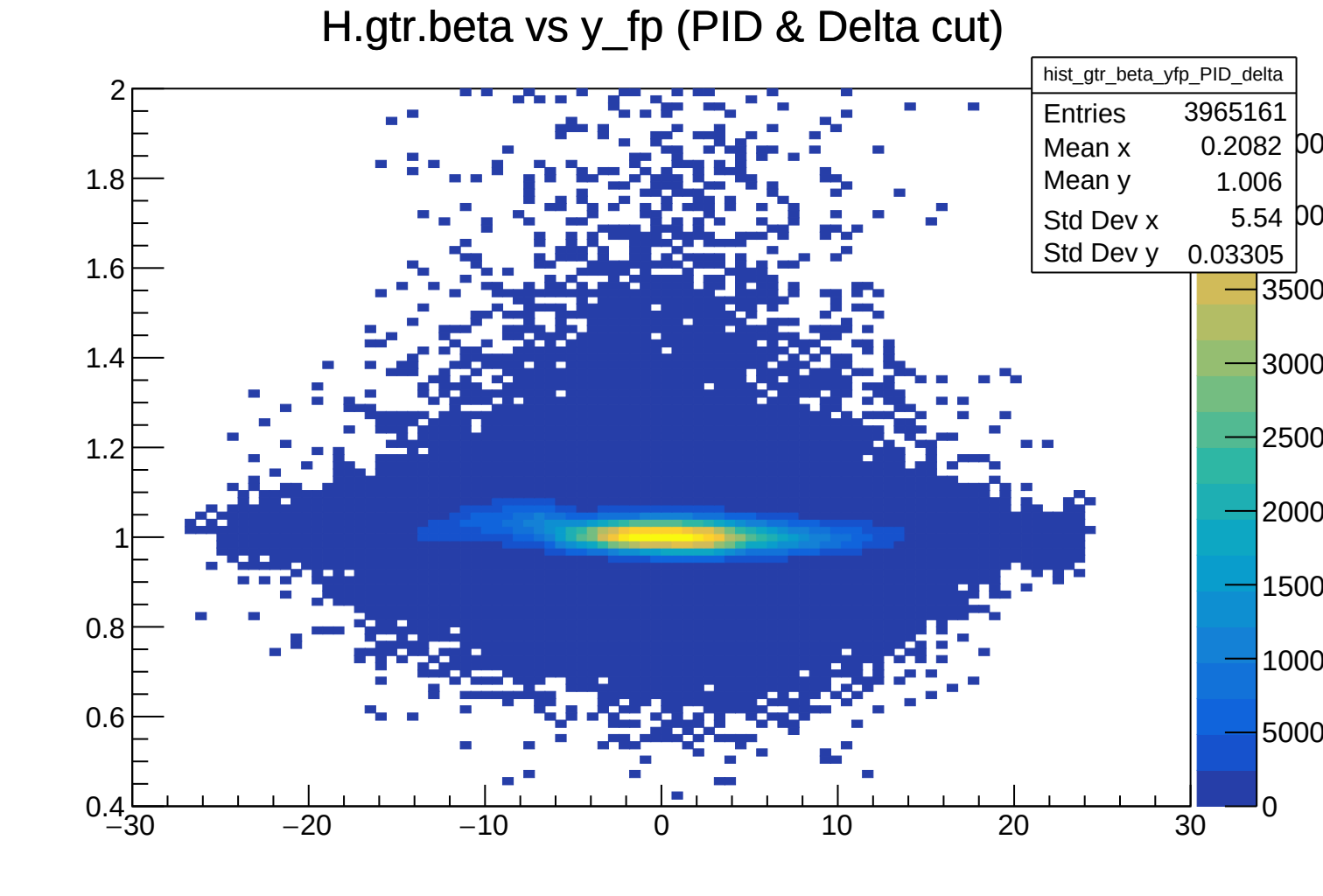

H.gtr.beta vs x_fp (PID cut)
hist_gtr_beta_xfp_PID
Entries 5719103
Mean x −1.372
Mean y 1.008
Std Dev x 24.49
Std Dev y 0.03516
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−50
−40
−30
−20
−10
0
10
20
30
40
50
1200
1000
8000
6000
4000
2000
0

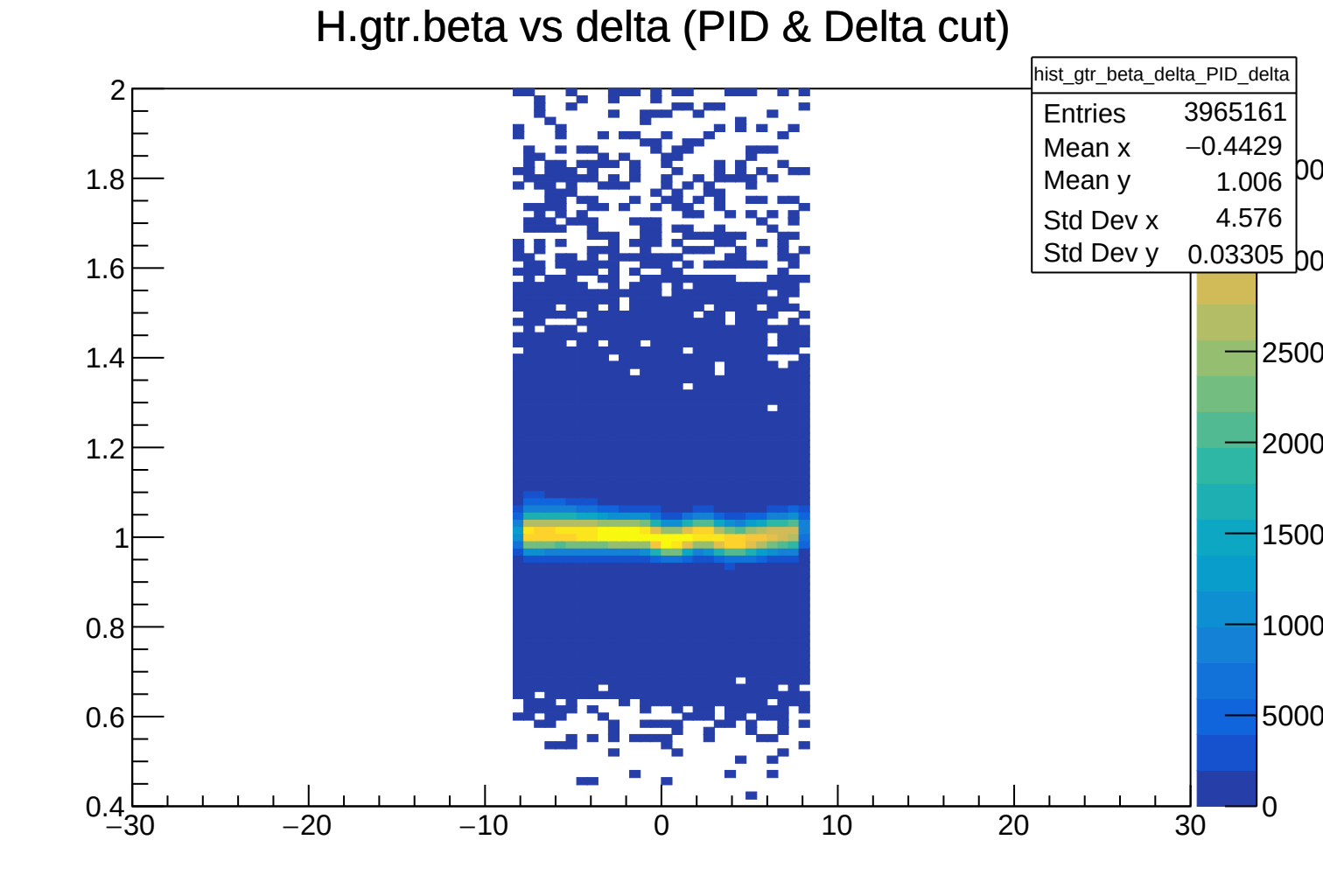

H.gtr.beta vs y_fp (PID cut)
hist_gtr_beta_yfp_PID
Entries 5719103
Mean x 0.2745
Mean y 1.008
Std Dev x 7.604
Std Dev y 0.03517
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
4000
3000
2000
1000
0


H.gtr.beta vs delta (PID cut)
hist_gtr_beta_delta_PID
Entries 5719103
Mean x −0.06366
Mean y 1.008
Std Dev x 6.812
Std Dev y 0.0351
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
2500
2000
1500
1000
5000
0


focal plane (PID & Delta cut)
hist_yfp_xfp_PID_delta
Entries 3965161
Mean x −1.855
Mean y 0.208
Std Dev x 17.17
Std Dev y 5.54
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
4000
3000
2000
1000
0


H.gtr.beta vs x_fp (PID & Delta cut)
hist_gtr_beta_xfp_PID_delta
Entries 3965161
Mean x −1.854
Mean y 1.006
Std Dev x 17.17
Std Dev y 0.03305
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
1200
1000
8000
6000
4000
2000
0


H.gtr.beta vs y_fp (PID & Delta cut)
hist_gtr_beta_yfp_PID_delta
Entries 3965161
Mean x 0.2082
Mean y 1.006
Std Dev x 5.54
Std Dev y 0.03305
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
3500
3000
2500
2000
1500
1000
5000
0


H.gtr.beta vs delta (PID & Delta cut)
hist_gtr_beta_delta_PID_delta
Entries 3965161
Mean x −0.4429
Mean y 1.006
Std Dev x 4.576
Std Dev y 0.03305
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
2500
2000
1500
1000
5000
0