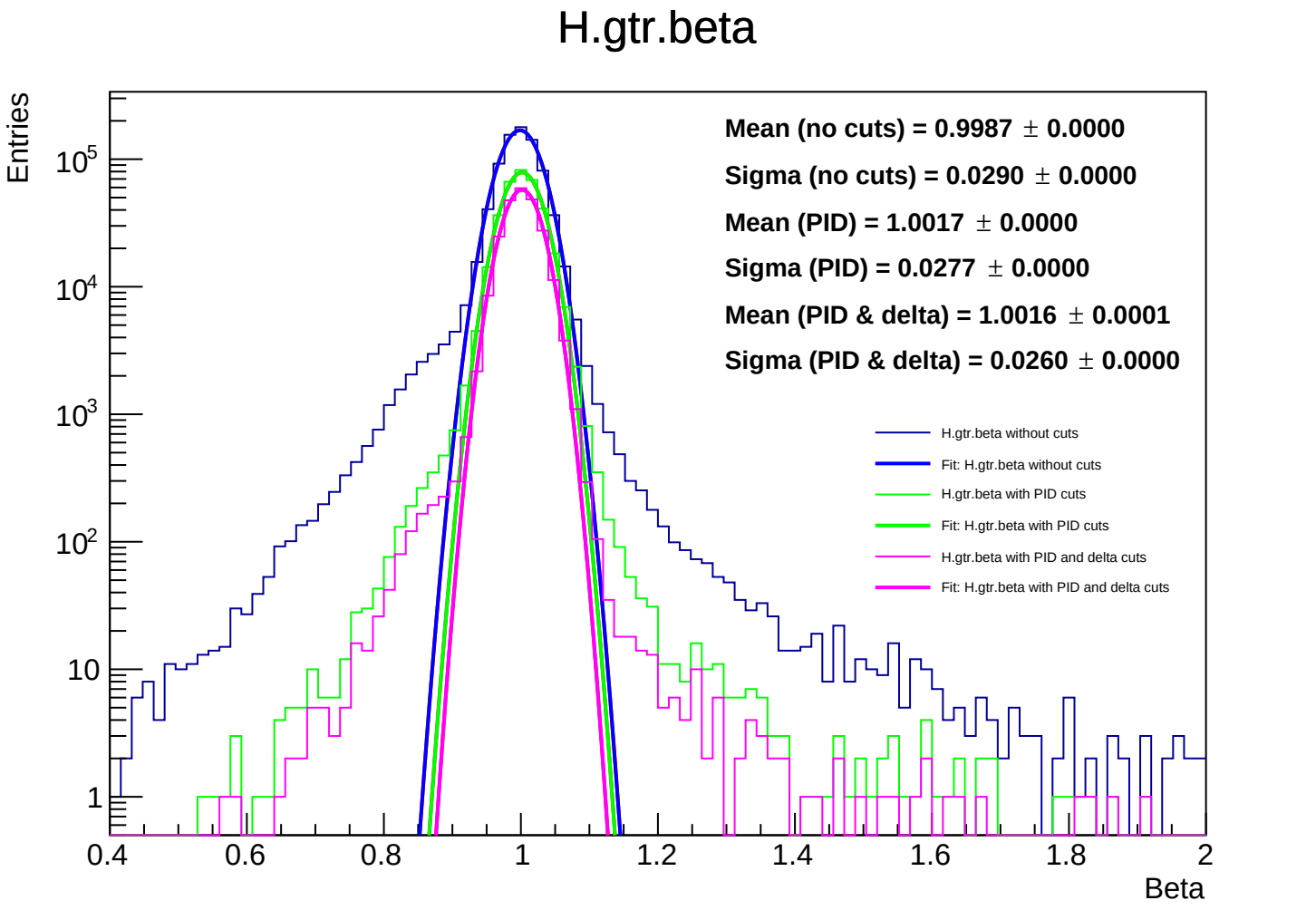
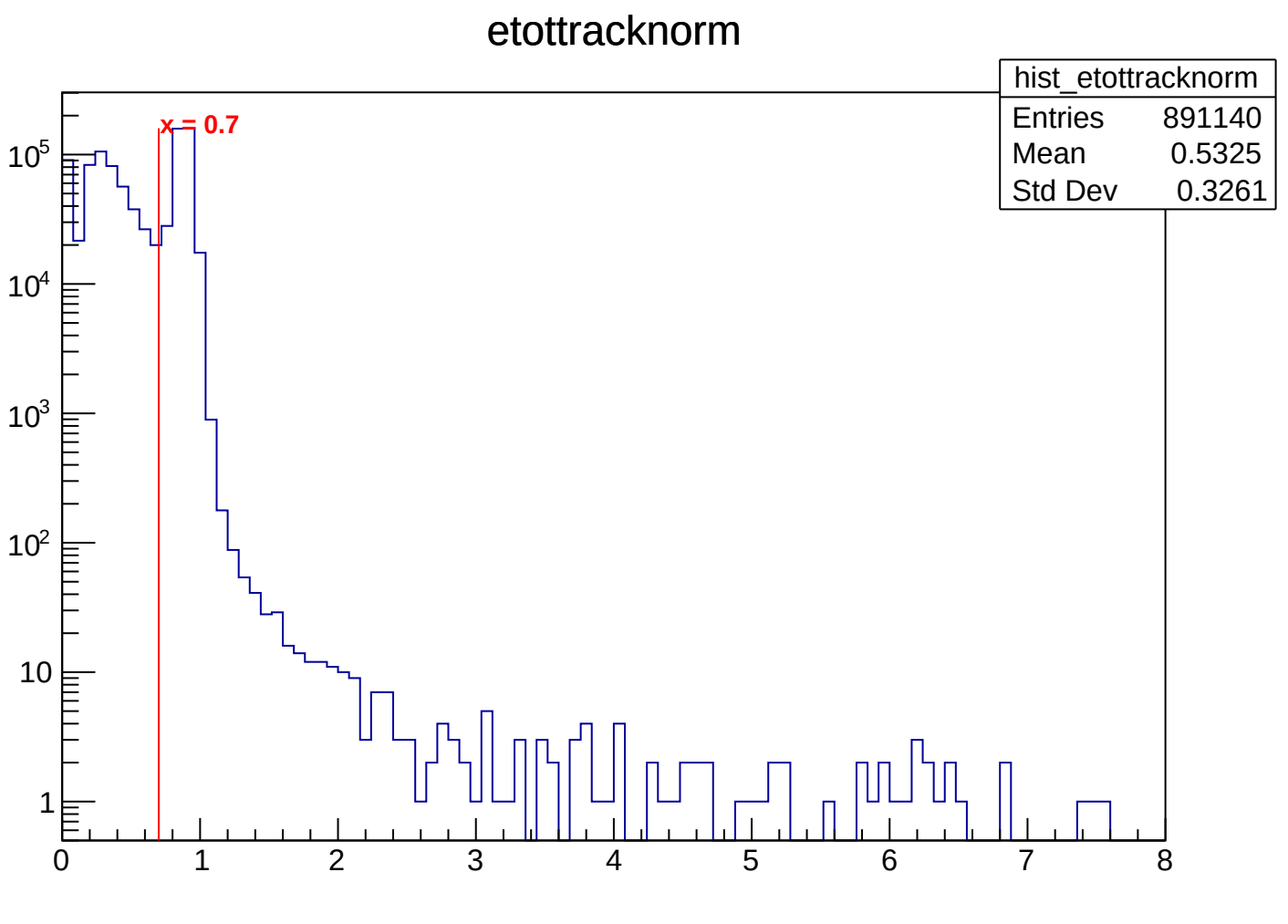
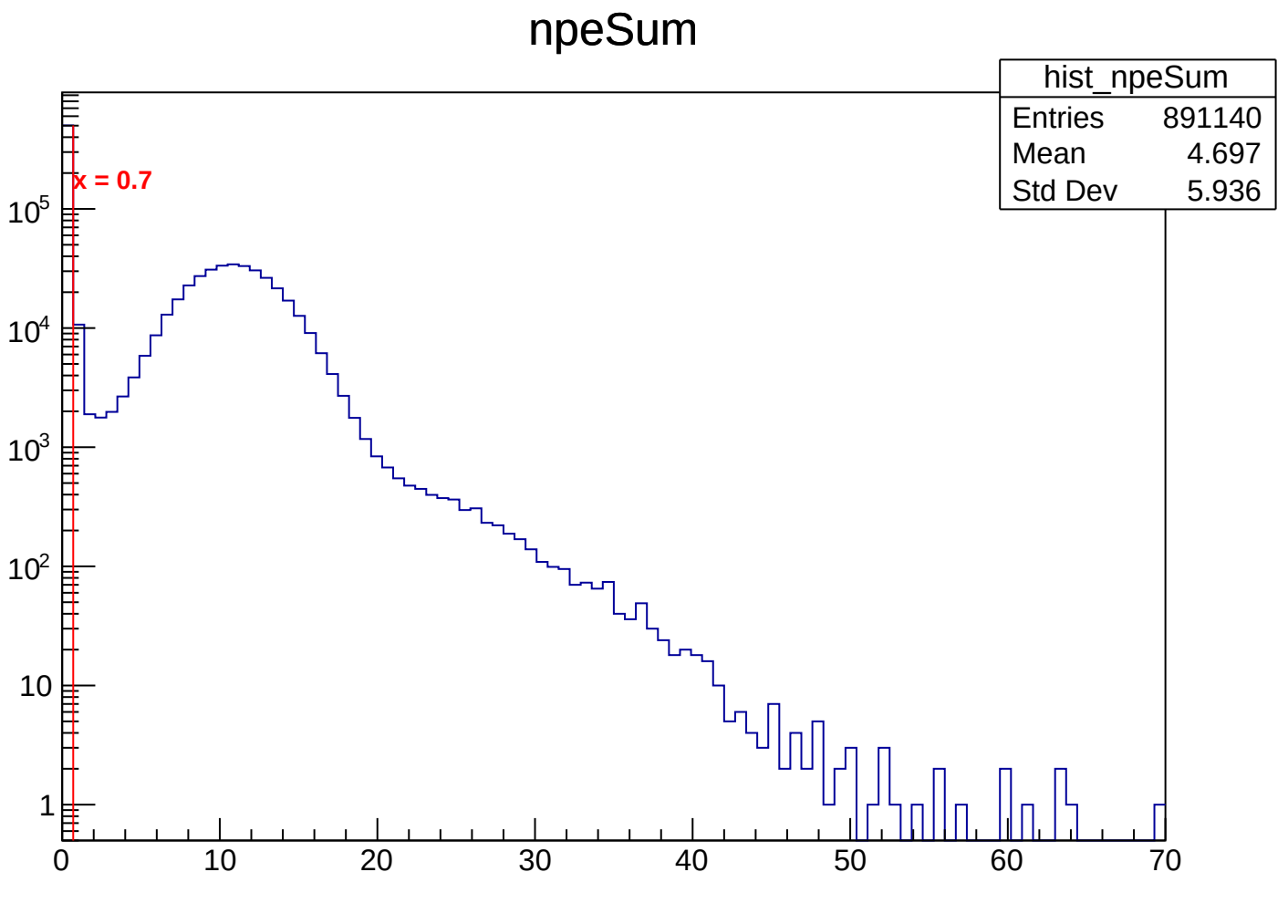
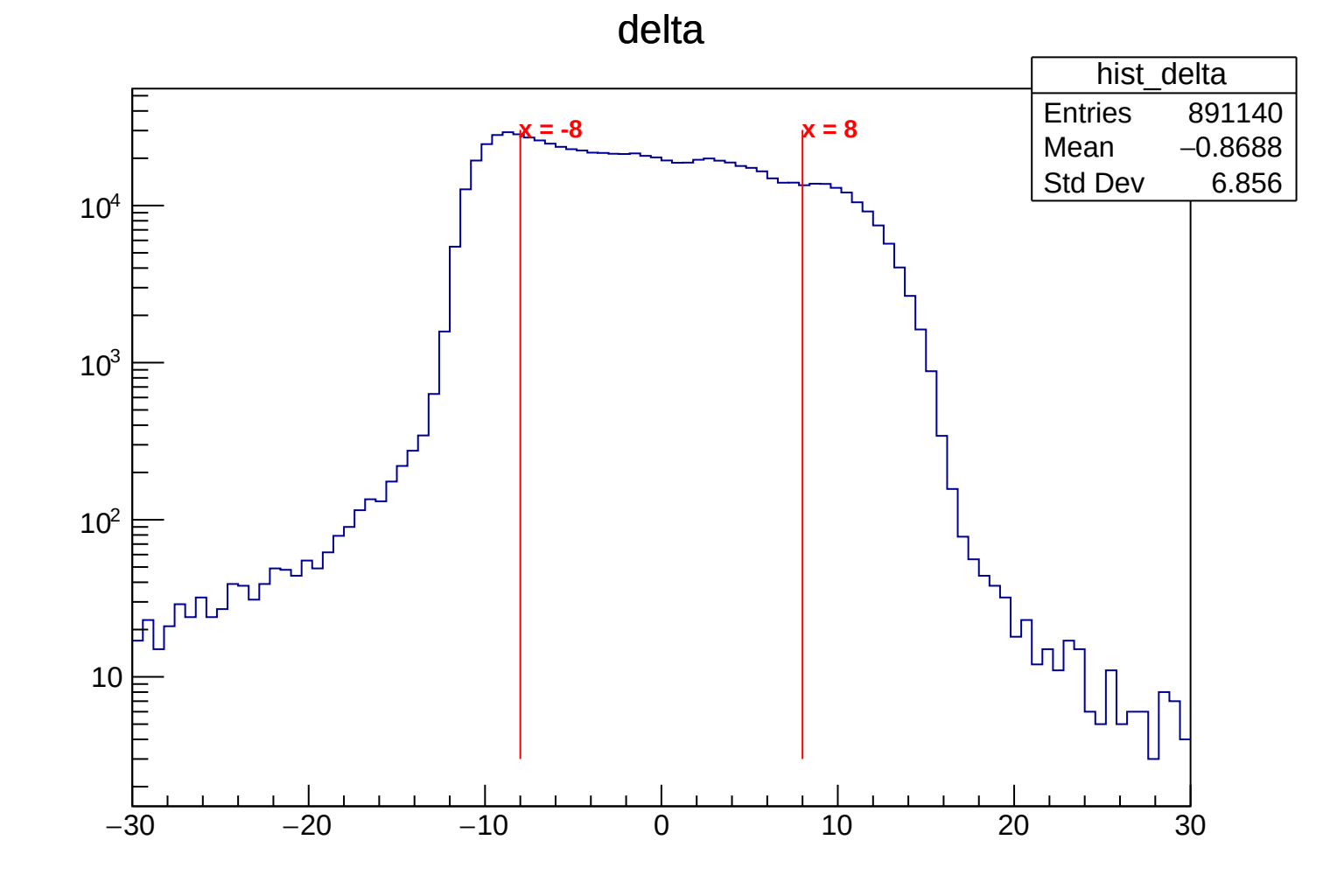
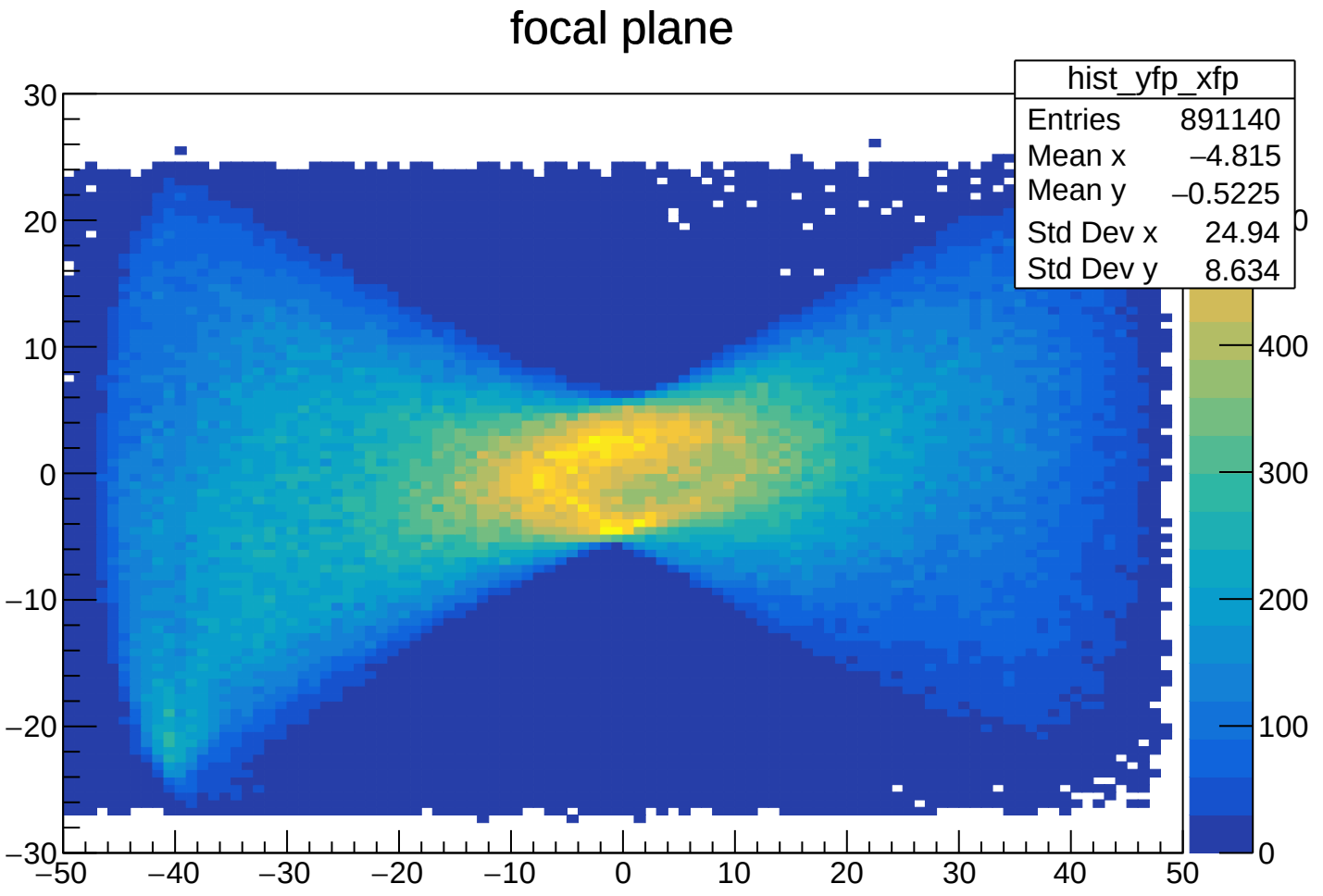
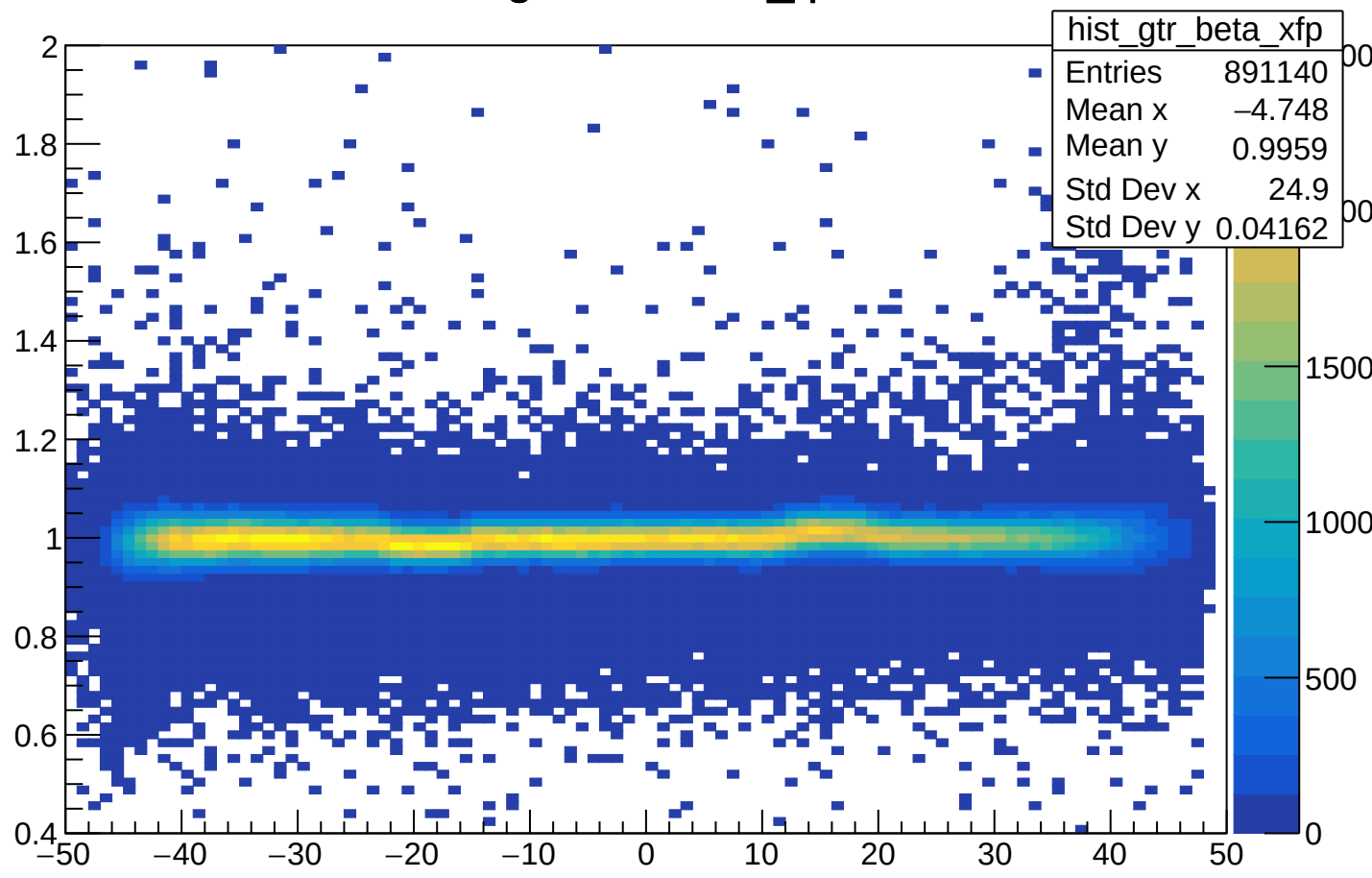

H.gtr.beta
Entries
Beta
Mean (no cuts) = 0.9987 ± 0.0000
Sigma (no cuts) = 0.0290 ± 0.0000
Mean (PID) = 1.0017 ± 0.0000
Sigma (PID) = 0.0277 ± 0.0000
Mean (PID & delta) = 1.0016 ± 0.0001
Sigma (PID & delta) = 0.0260 ± 0.0000
H.gtr.beta without cuts
Fit: H.gtr.beta without cuts
H.gtr.beta with PID cuts
Fit: H.gtr.beta with PID cuts
H.gtr.beta with PID and delta cuts
Fit: H.gtr.beta with PID and delta cuts

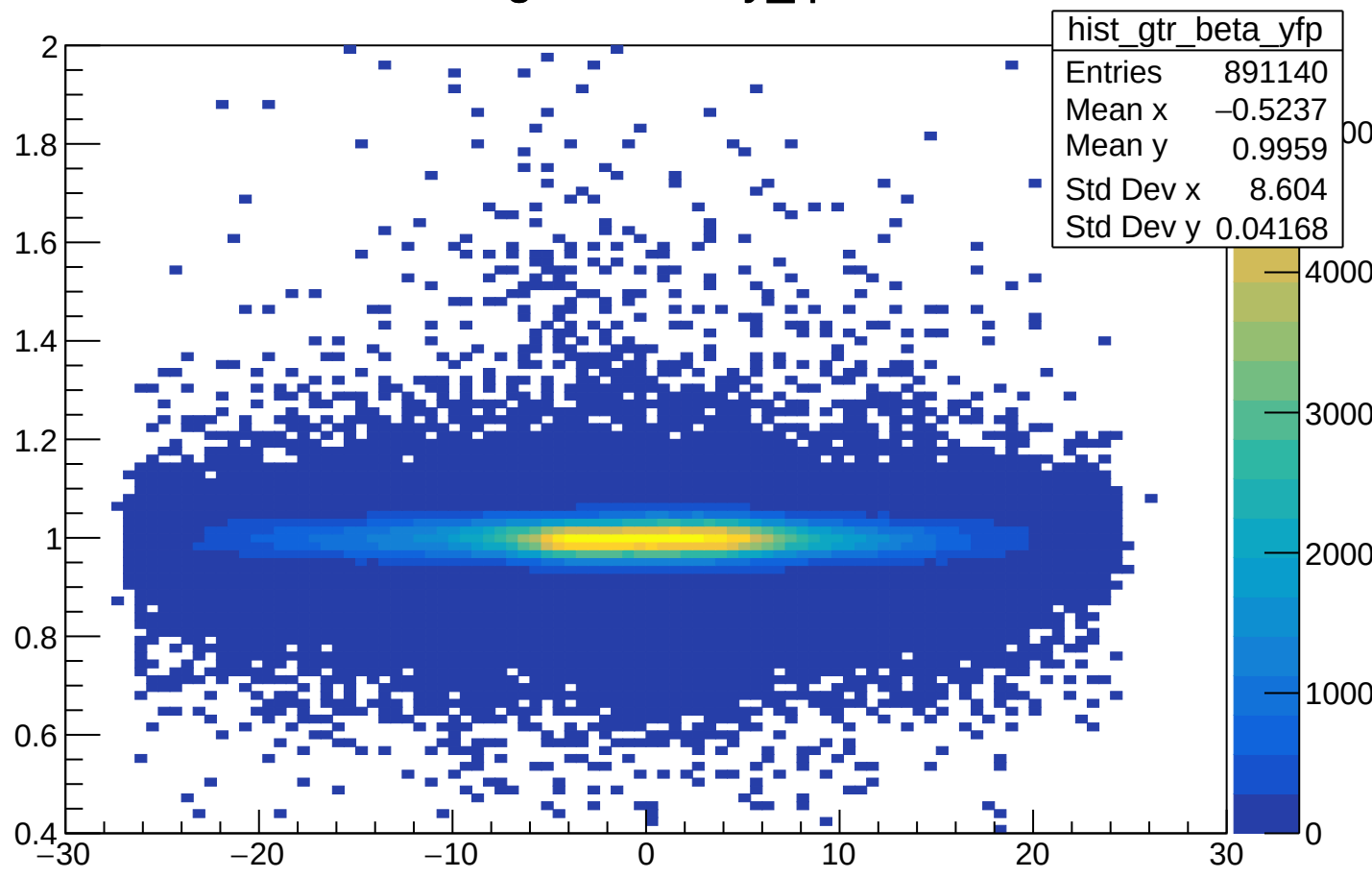

etottracknorm
hist_etottracknorm
Entries 891140
Mean 0.5325
Std Dev 0.3261
x = 0.7
10^5
10^4
10^3
10^2
10
1
0
1
2
3
4
5
6
7
8

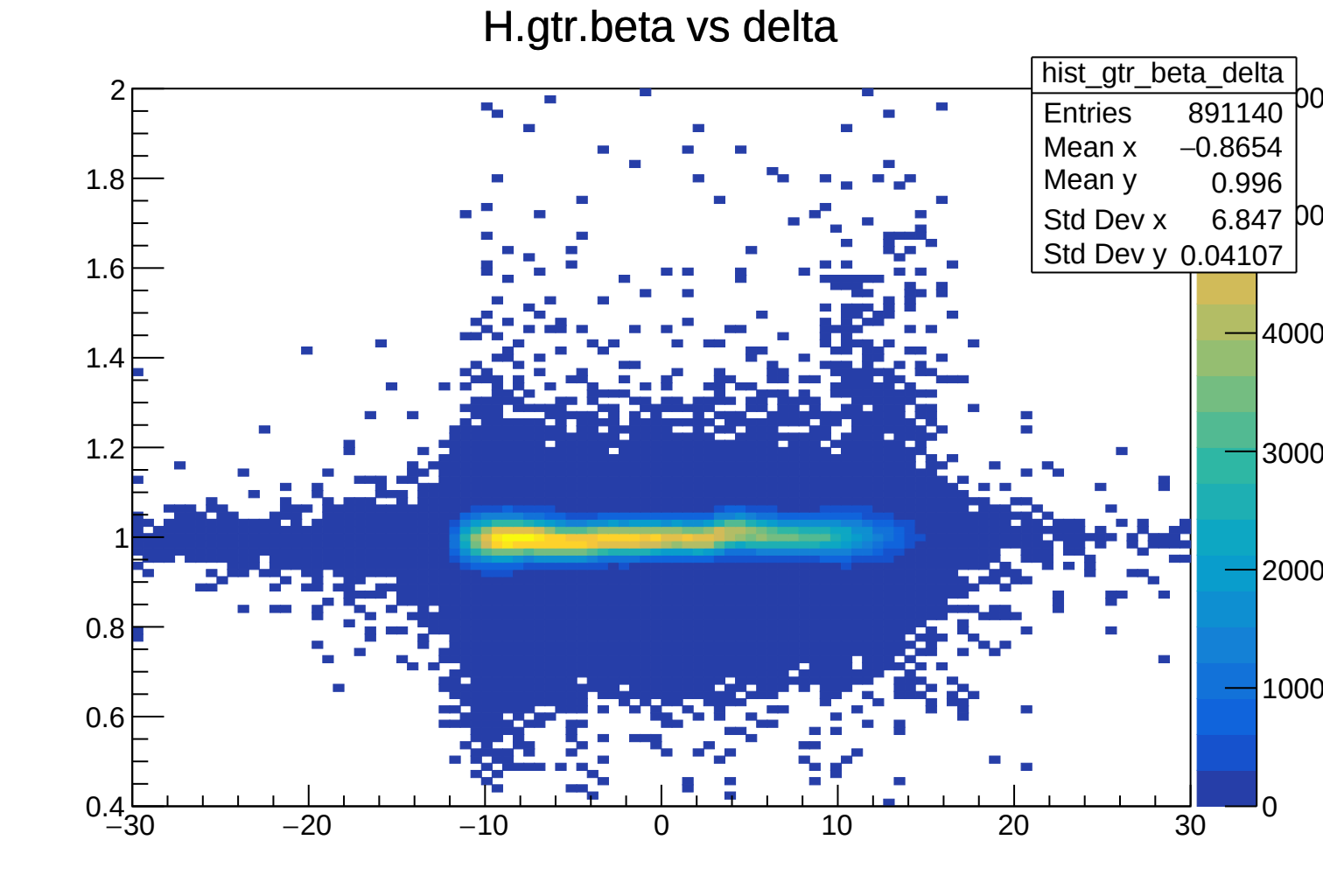

npeSum
hist_npeSum
Entries 891140
Mean 4.697
Std Dev 5.936
x = 0.7
10^5
10^4
10^3
10^2
10
1
0
10
20
30
40
50
60
70

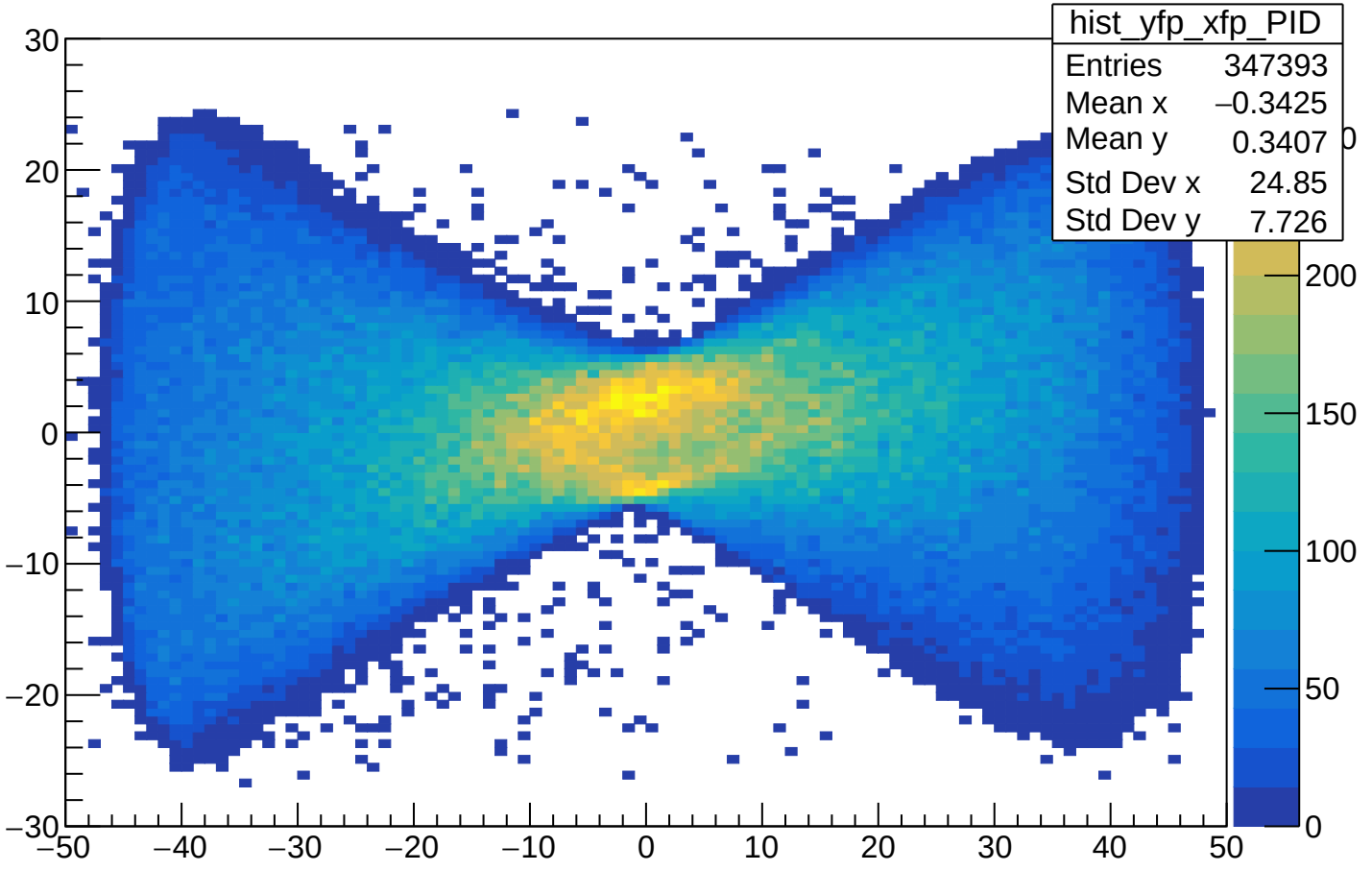

delta
hist_delta
Entries 891140
Mean −0.8688
Std Dev 6.856
x = -8
x = 8
10^4
10^3
10^2
10
−30
−20
−10
0
10
20
30

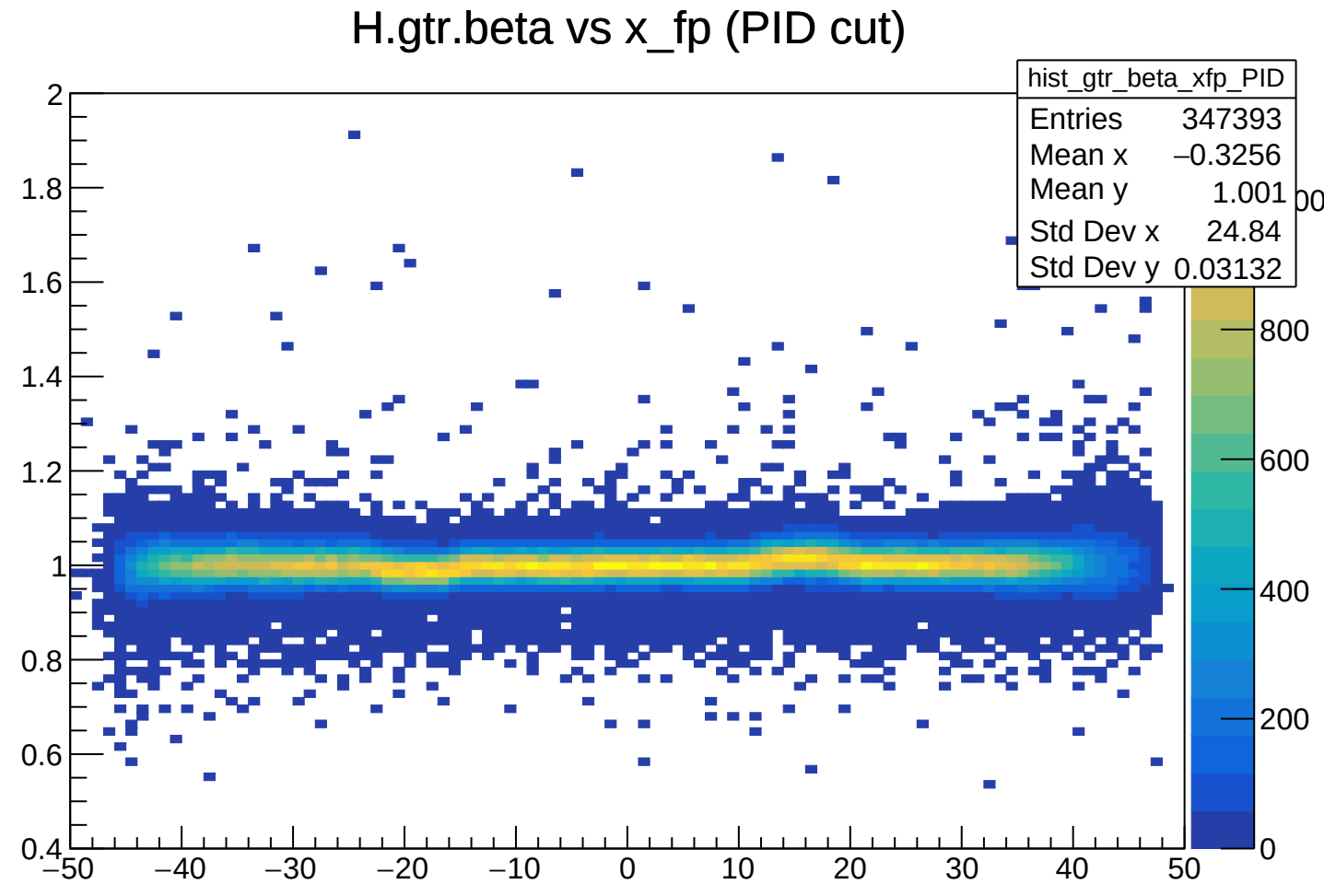

focal plane
hist_yfp_xfp
Entries 891140
Mean x –4.815
Mean y –0.5225
Std Dev x 24.94
Std Dev y 8.634
30
20
10
0
–10
–20
–30
–50
–40
–30
–20
–10
0
10
20
30
40
50
400
300
200
100
0

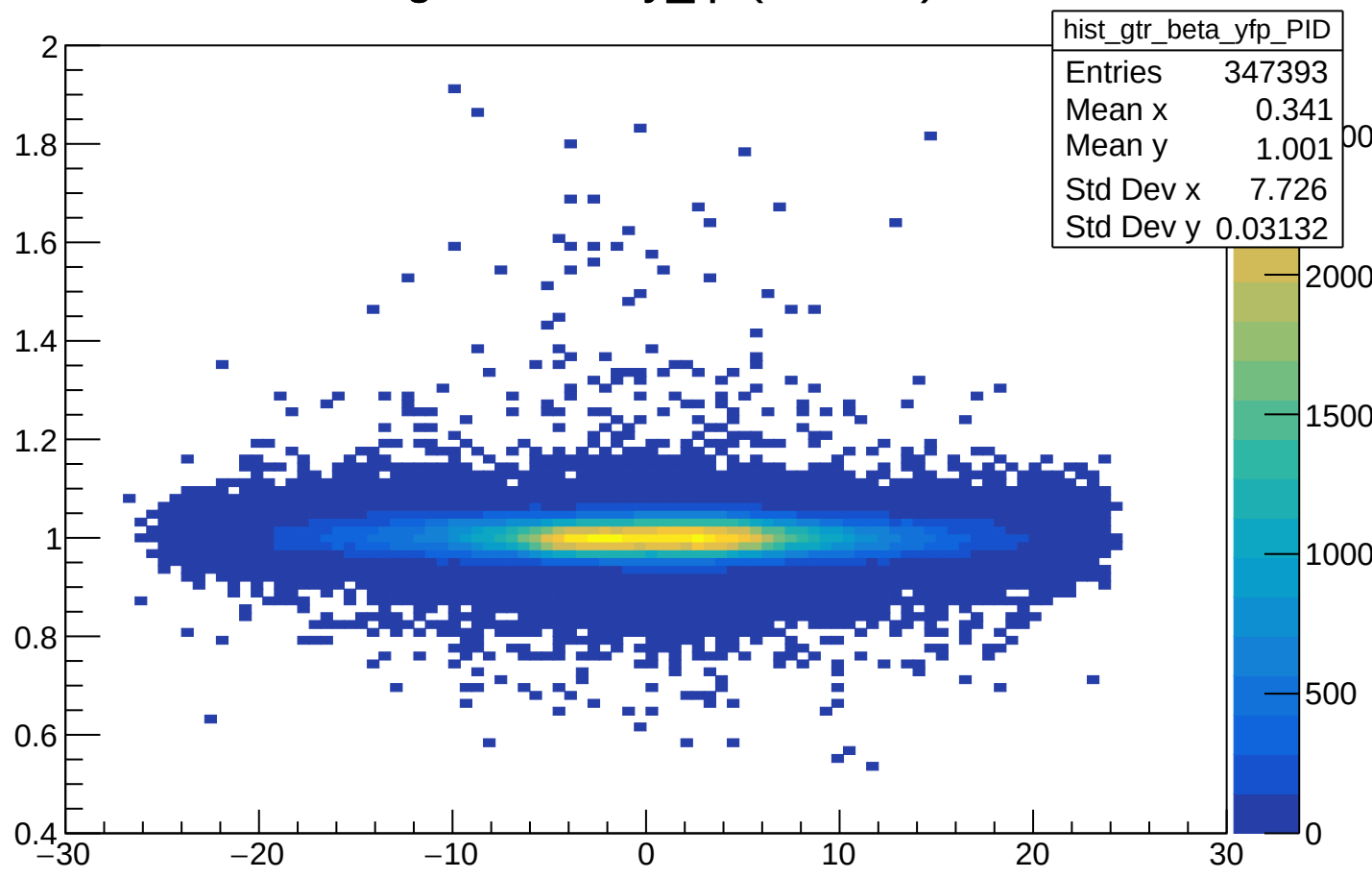

H.gtr.beta vs x_fp
hist_gtr_beta_xfp
Entries 891140
Mean x –4.748
Mean y 0.9959
Std Dev x 24.9
Std Dev y 0.04162
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
–50
–40
–30
–20
–10
0
10
20
30
40
50
1500
1000
500
0

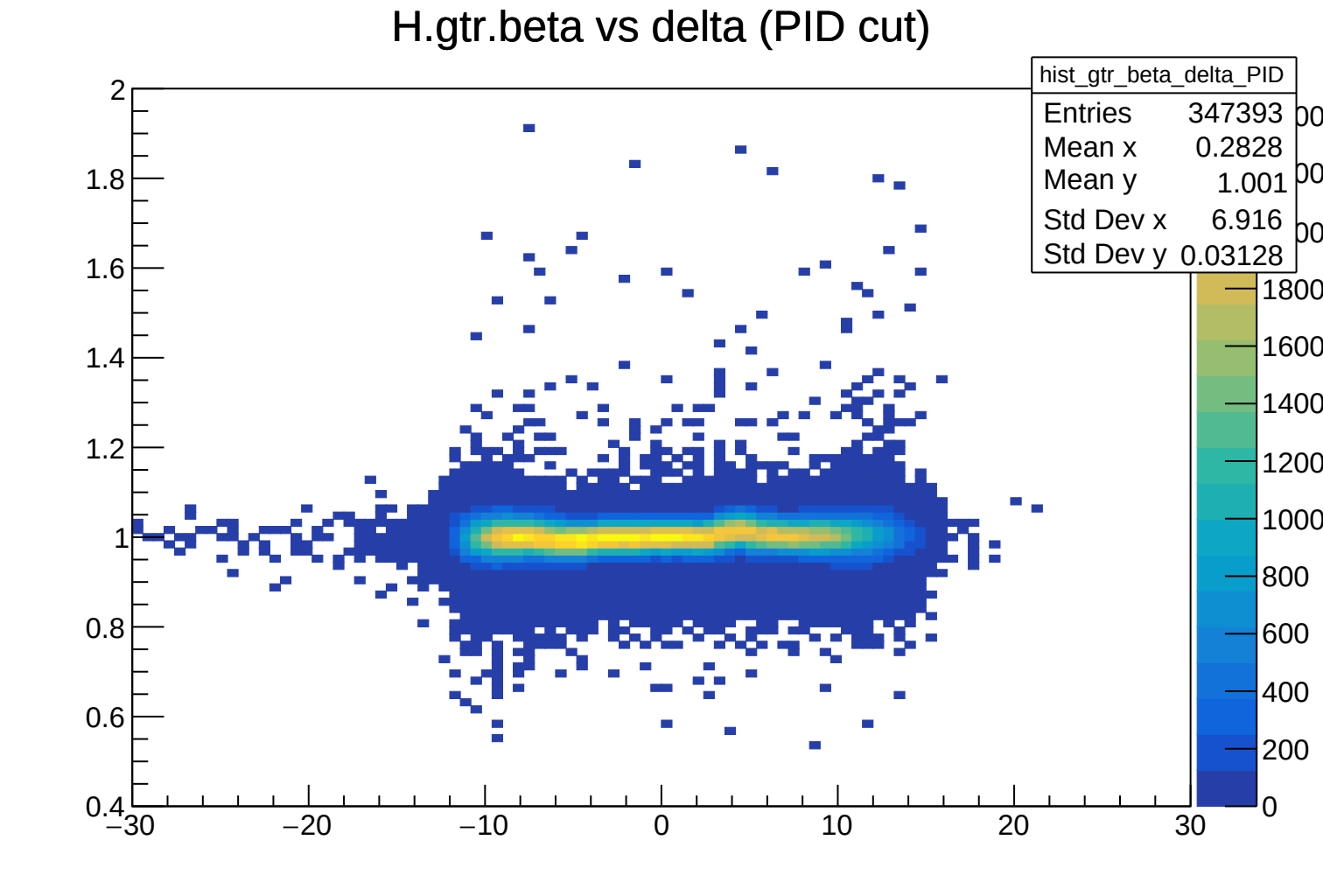

H.gtr.beta vs y_fp
hist_gtr_beta_yfp
Entries 891140
Mean x −0.5237
Mean y 0.9959
Std Dev x 8.604
Std Dev y 0.04168
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
4000
3000
2000
1000
0

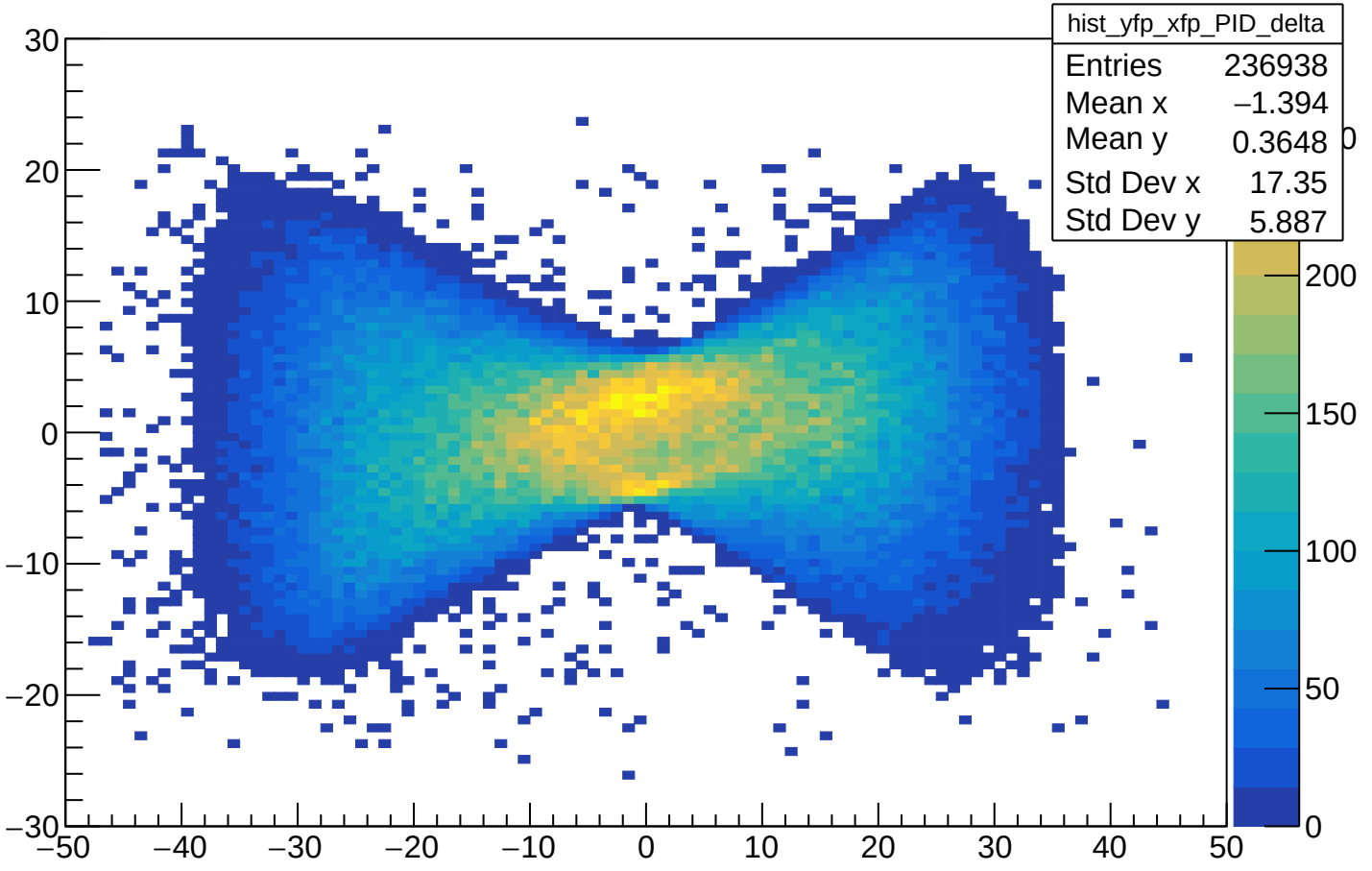

H.gtr.beta vs delta
hist_gtr_beta_delta
Entries 891140
Mean x −0.8654
Mean y 0.996
Std Dev x 6.847
Std Dev y 0.04107
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
4000
3000
2000
1000
0

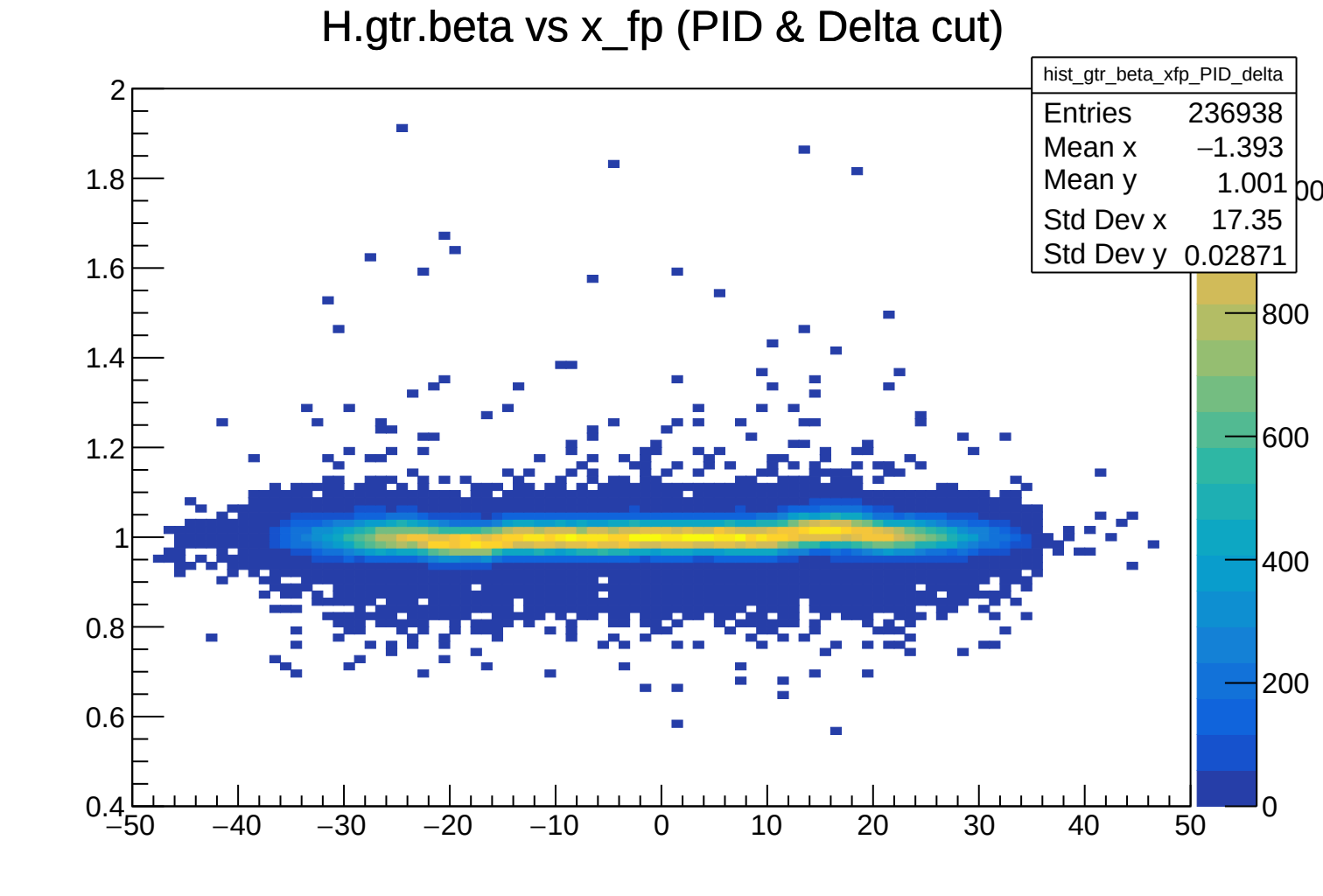

focal plane (PID cut)
hist_yfp_xfp_PID
Entries 347393
Mean x –0.3425
Mean y 0.3407
Std Dev x 24.85
Std Dev y 7.726
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
200
150
100
50
0

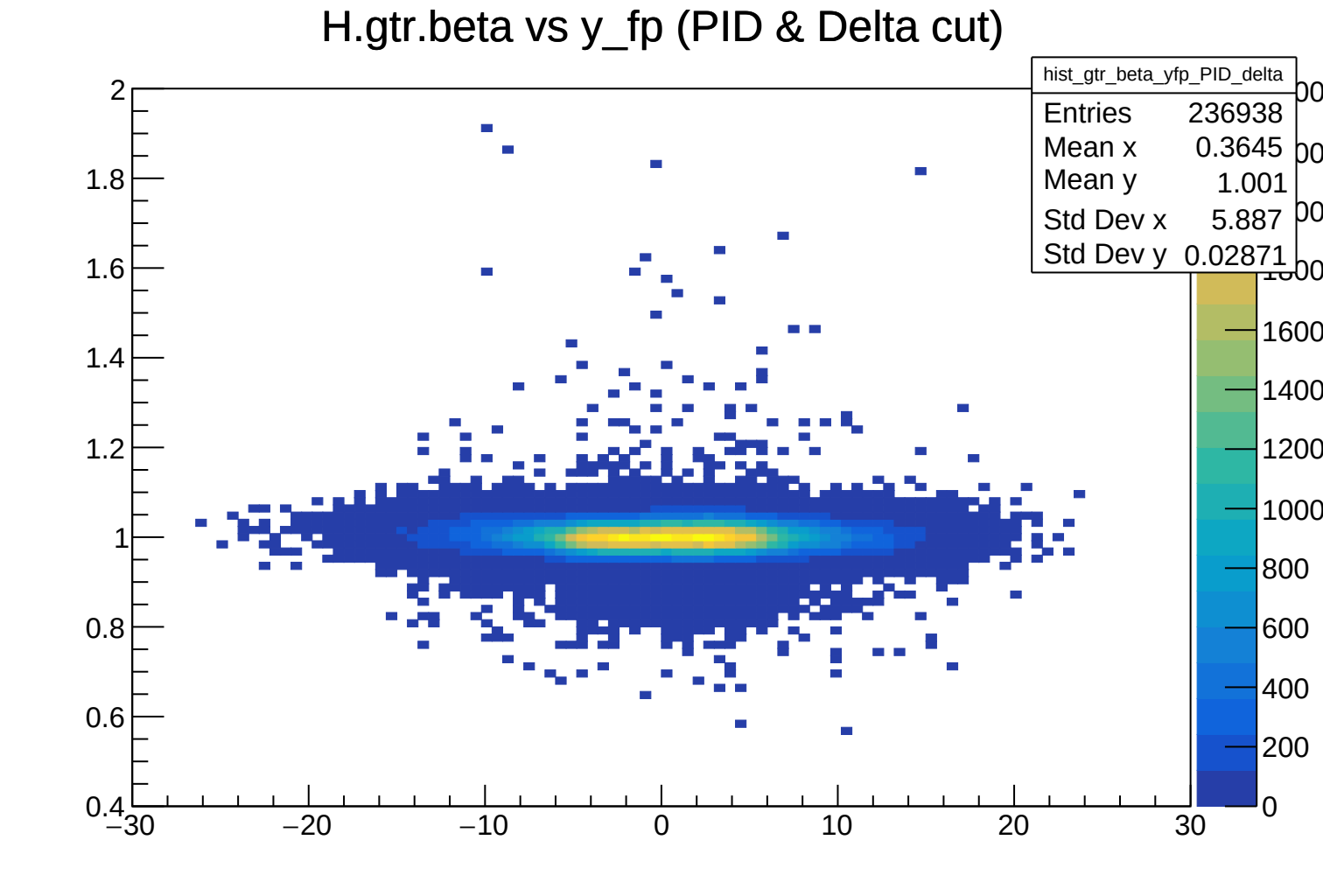

H.gtr.beta vs x_fp (PID cut)
hist_gtr_beta_xfp_PID
Entries 347393
Mean x −0.3256
Mean y 1.001
Std Dev x 24.84
Std Dev y 0.03132
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−50
−40
−30
−20
−10
0
10
20
30
40
50
800
600
400
200
0

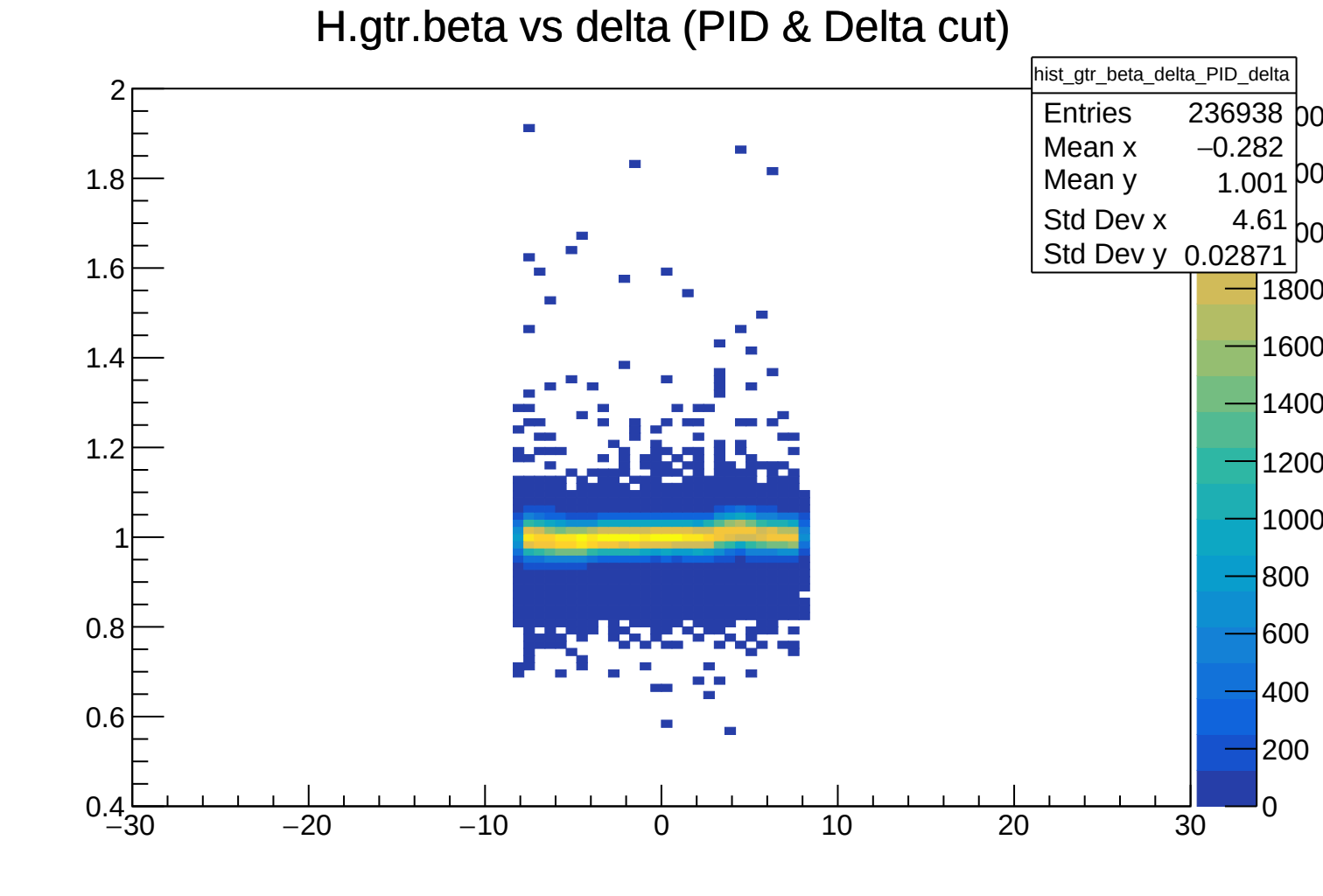

H.gtr.beta vs y_fp (PID cut)
hist_gtr_beta_yfp_PID
Entries 347393
Mean x 0.341
Mean y 1.001
Std Dev x 7.726
Std Dev y 0.03132
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
2000
1500
1000
500
0


H.gtr.beta vs delta (PID cut)
hist_gtr_beta_delta_PID
Entries 347393
Mean x 0.2828
Mean y 1.001
Std Dev x 6.916
Std Dev y 0.03128
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
1800
1600
1400
1200
1000
800
600
400
200
0


focal plane (PID & Delta cut)
hist_yfp_xfp_PID_delta
Entries 236938
Mean x −1.394
Mean y 0.3648
Std Dev x 17.35
Std Dev y 5.887
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
200
150
100
50
0


H.gtr.beta vs x_fp (PID & Delta cut)
hist_gtr_beta_xfp_PID_delta
Entries 236938
Mean x −1.393
Mean y 1.001
Std Dev x 17.35
Std Dev y 0.02871
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
800
600
400
200
0


H.gtr.beta vs y_fp (PID & Delta cut)
hist_gtr_beta_yfp_PID_delta
Entries 236938
Mean x 0.3645
Mean y 1.001
Std Dev x 5.887
Std Dev y 0.02871
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
800
600
400
200
0


H.gtr.beta vs delta (PID & Delta cut)
hist_gtr_beta_delta_PID_delta
Entries 236938
Mean x −0.282
Mean y 1.001
Std Dev x 4.61
Std Dev y 0.02871
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
1800
1600
1400
1200
1000
800
600
400
200
0