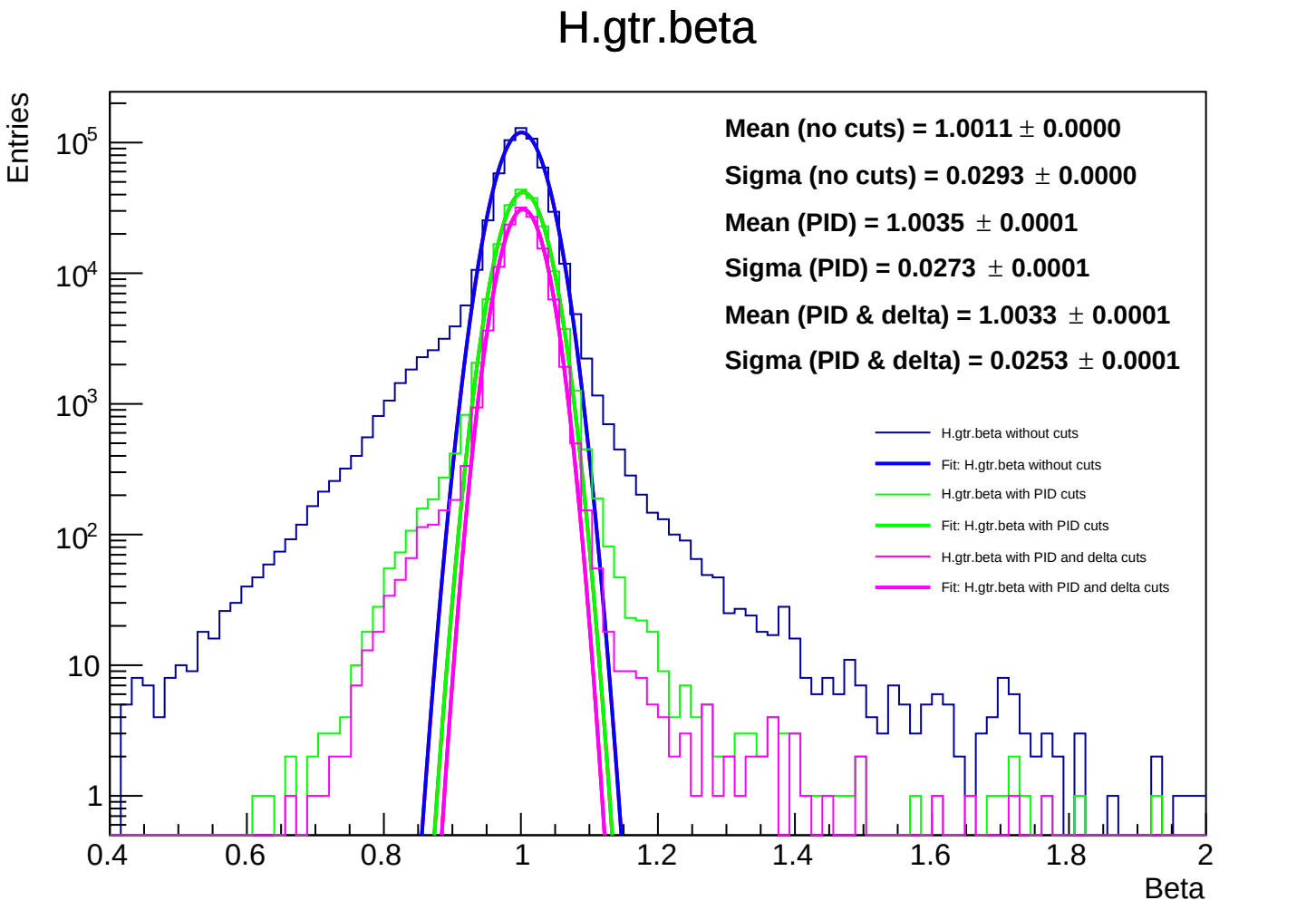
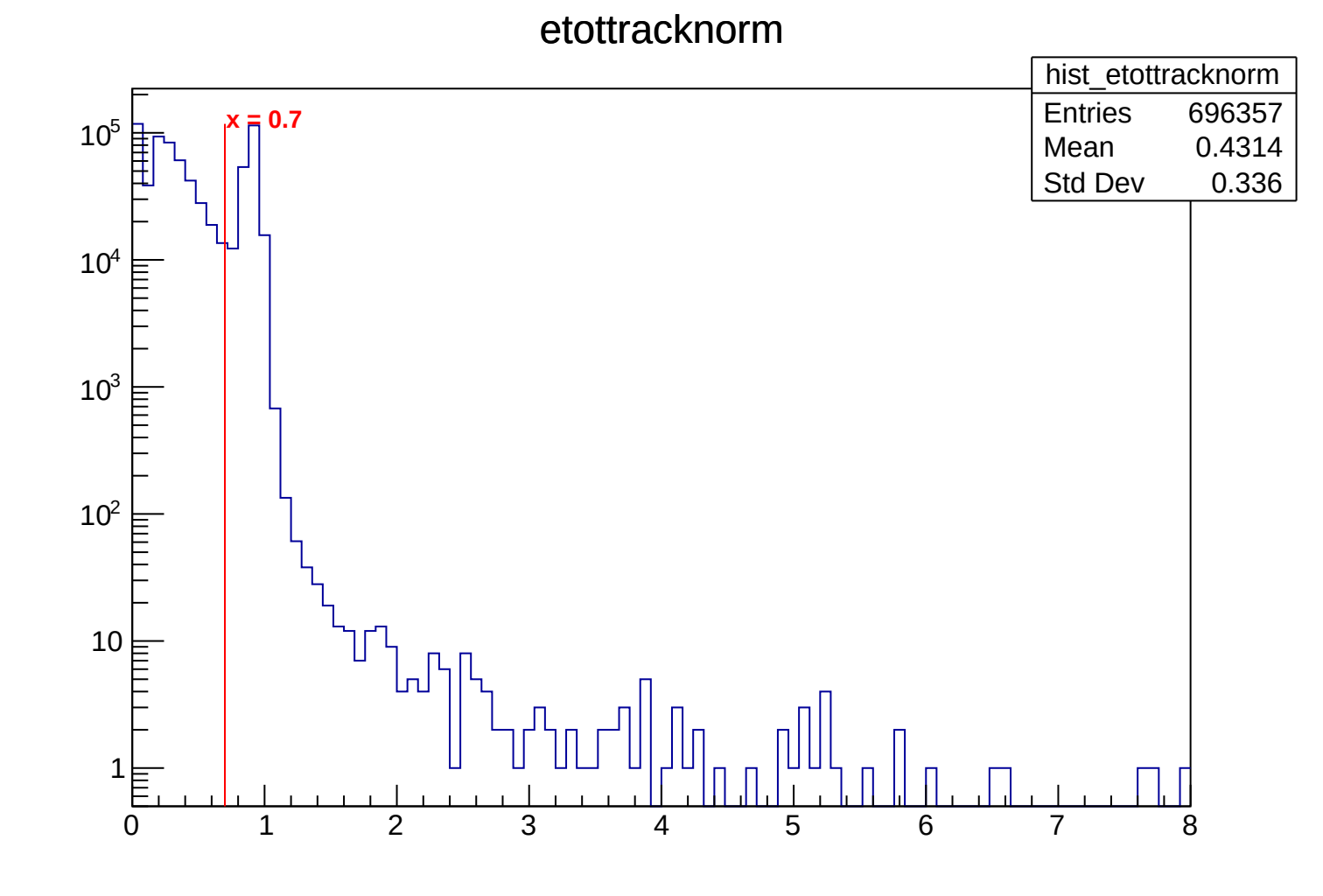
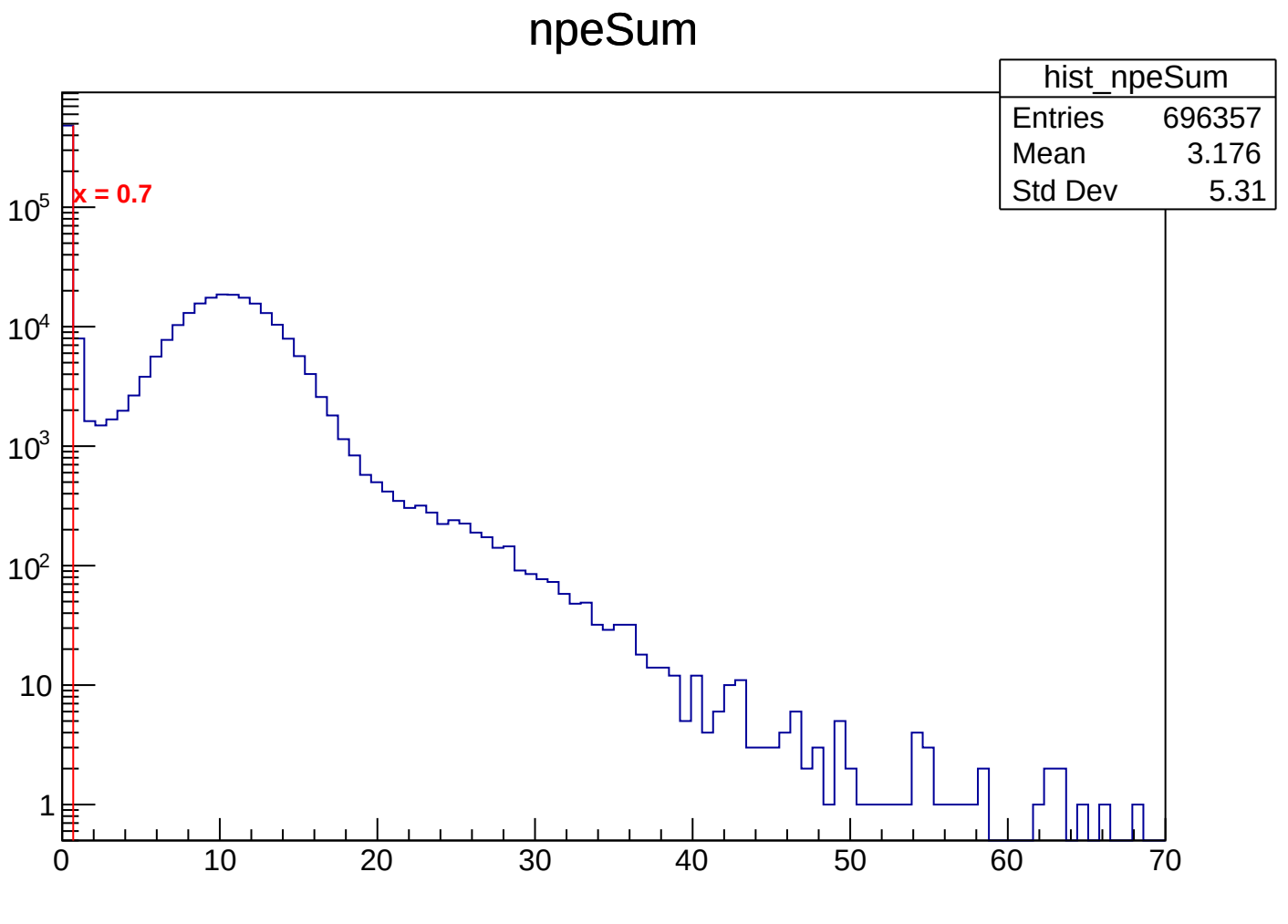
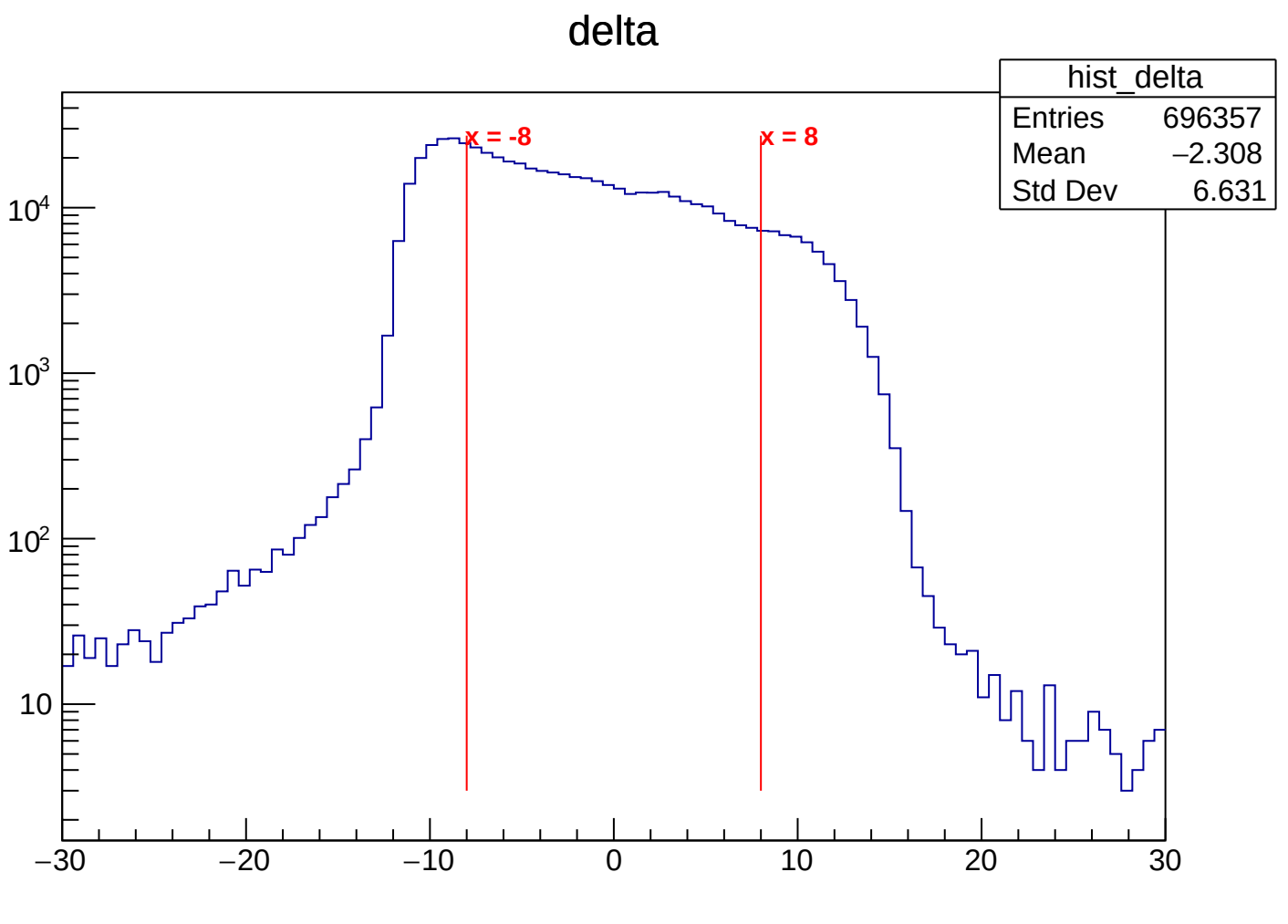
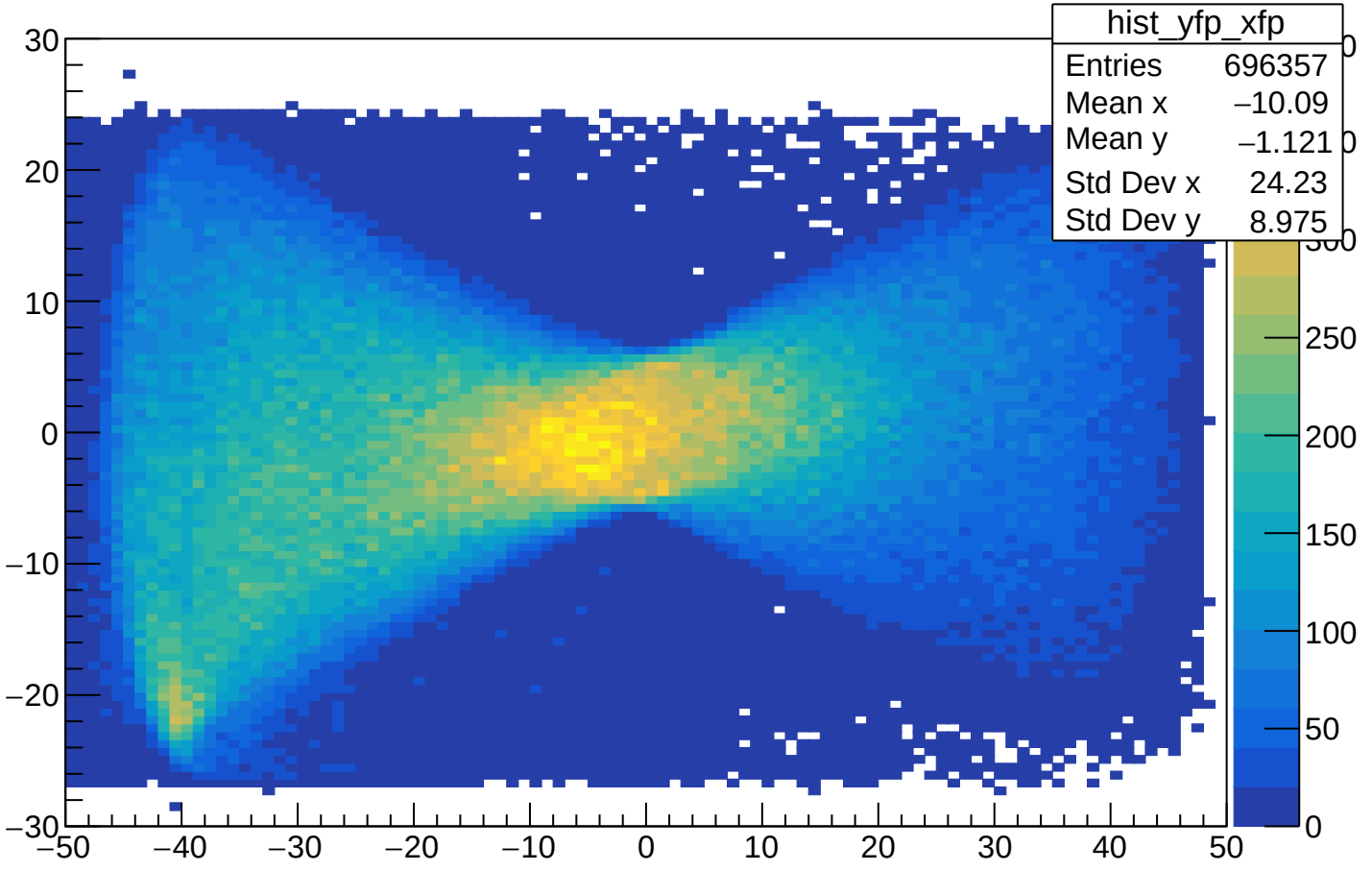
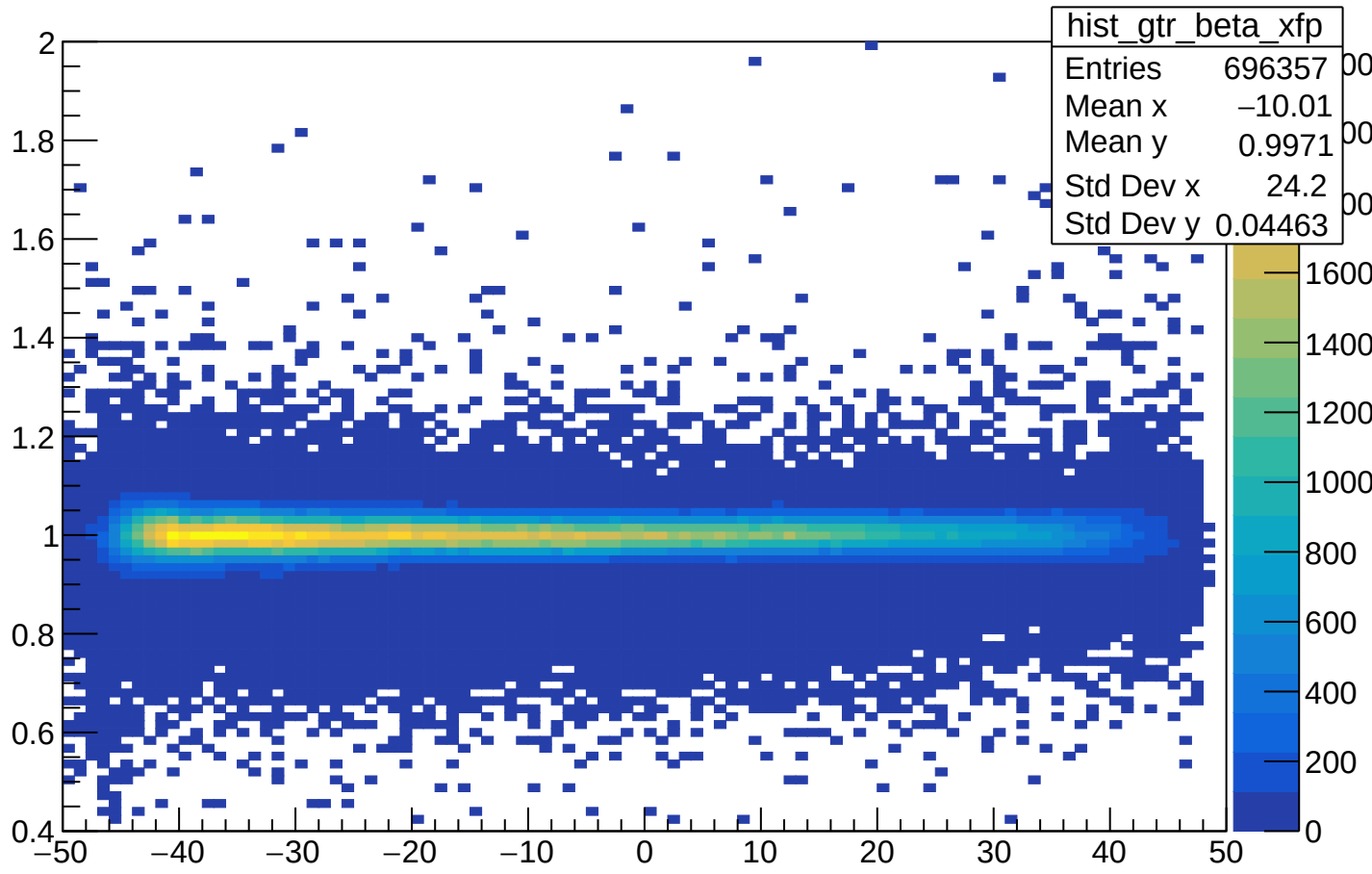

H.gtr.beta
Entries
Beta
Mean (no cuts) = 1.0011 ± 0.0000
Sigma (no cuts) = 0.0293 ± 0.0000
Mean (PID) = 1.0035 ± 0.0001
Sigma (PID) = 0.0273 ± 0.0001
Mean (PID & delta) = 1.0033 ± 0.0001
Sigma (PID & delta) = 0.0253 ± 0.0001
H.gtr.beta without cuts
Fit: H.gtr.beta without cuts
H.gtr.beta with PID cuts
Fit: H.gtr.beta with PID cuts
H.gtr.beta with PID and delta cuts
Fit: H.gtr.beta with PID and delta cuts

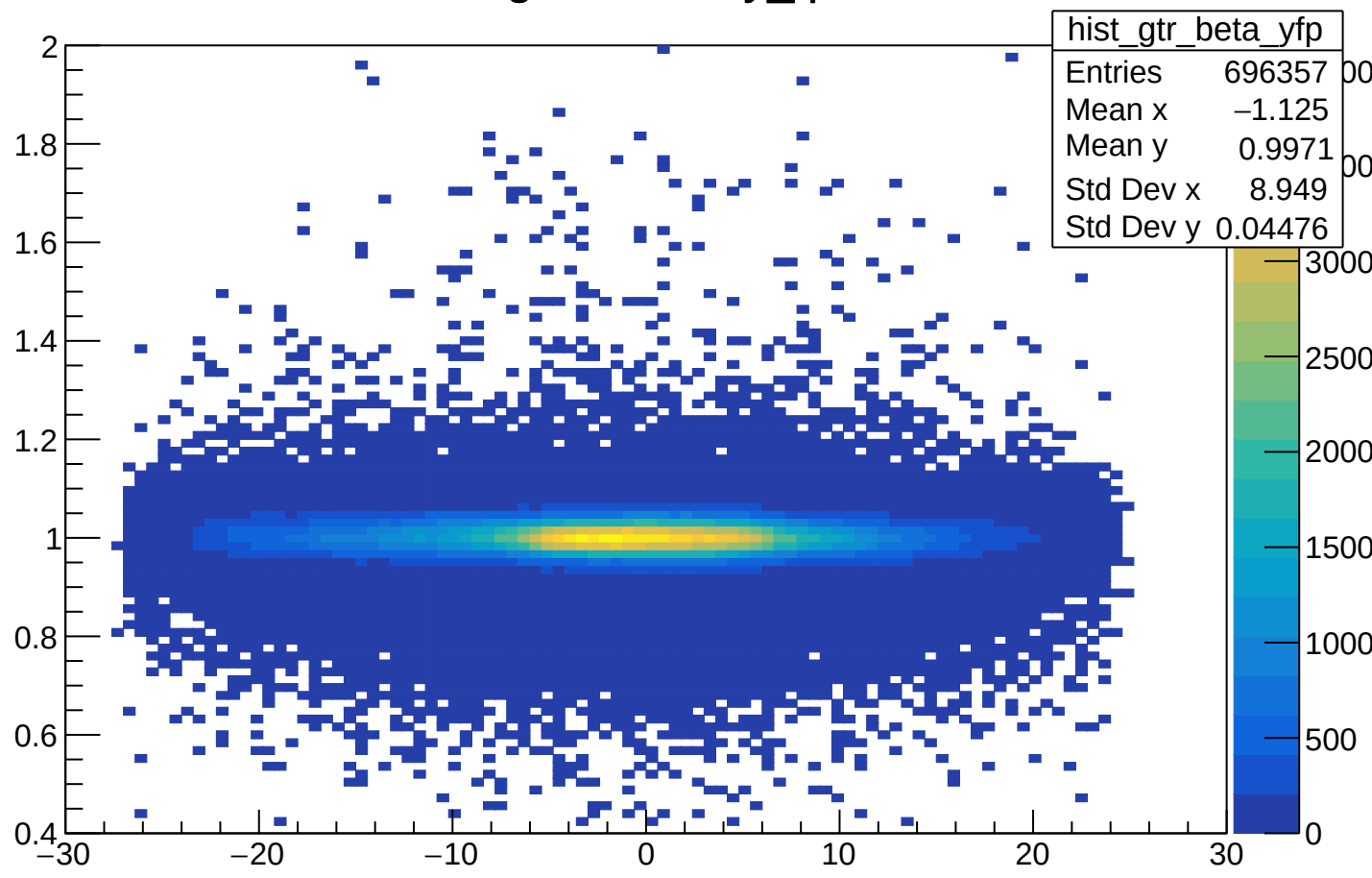

etottracknorm
hist_etottracknorm
Entries 696357
Mean 0.4314
Std Dev 0.336
x = 0.7
10^5
10^4
10^3
10^2
10
1
0
1
2
3
4
5
6
7
8

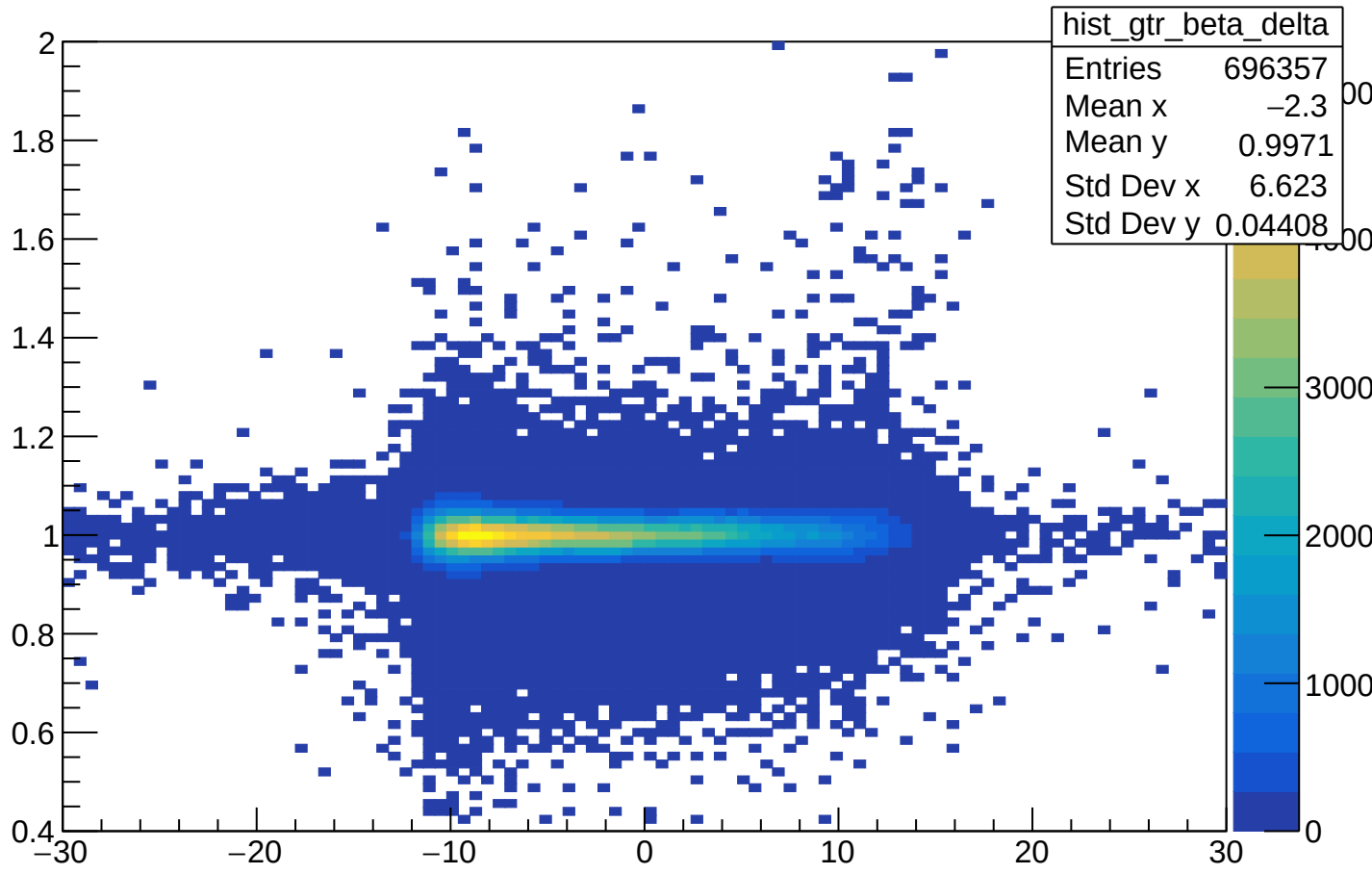

npeSum
hist_npeSum
Entries 696357
Mean 3.176
Std Dev 5.31
x = 0.7
10^5
10^4
10^3
10^2
10
1
0
10
20
30
40
50
60
70

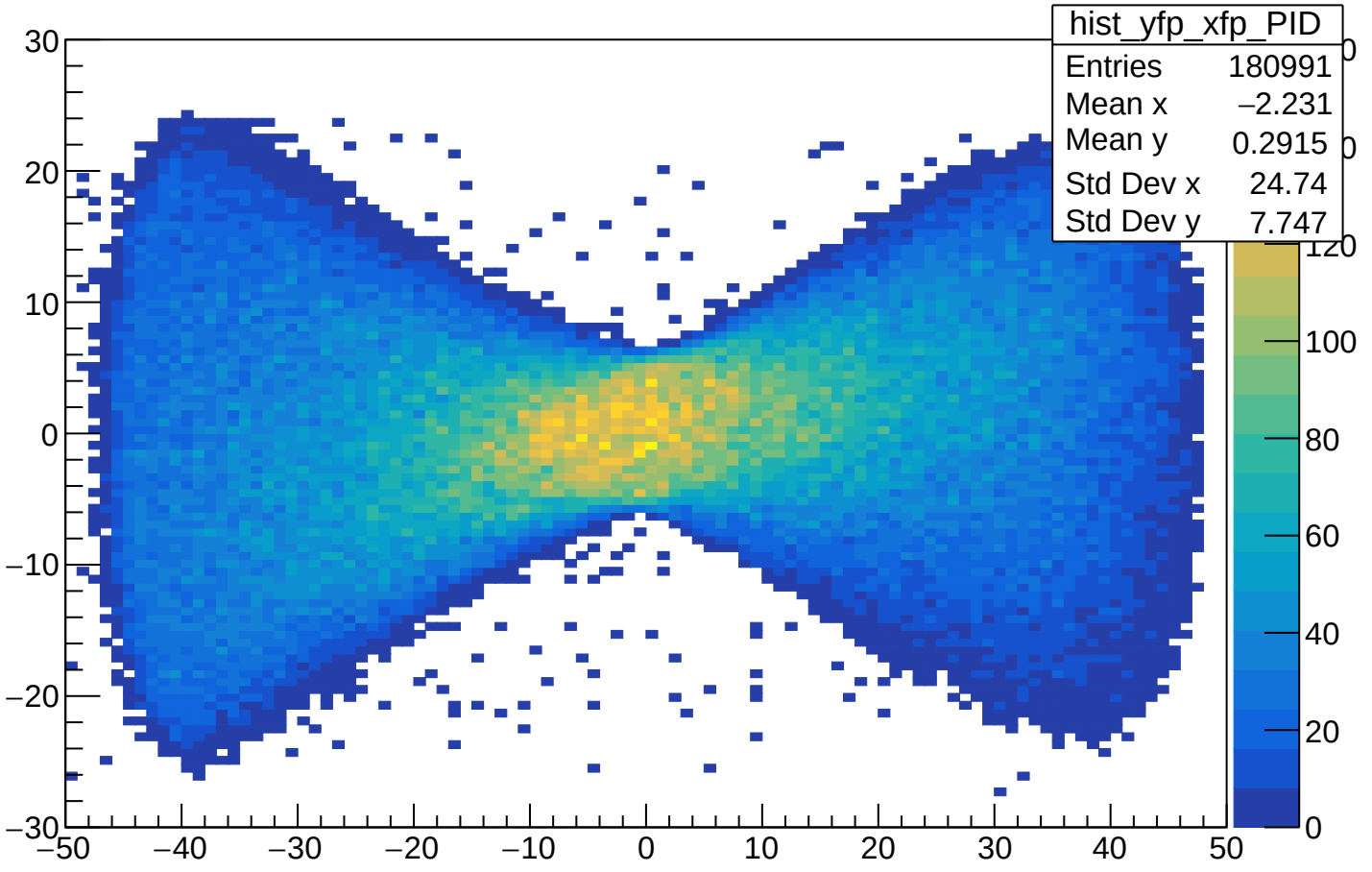

delta
hist_delta
Entries 696357
Mean −2.308
Std Dev 6.631
x = -8
x = 8
10^4
10^3
10^2
10
−30
−20
−10
0
10
20
30

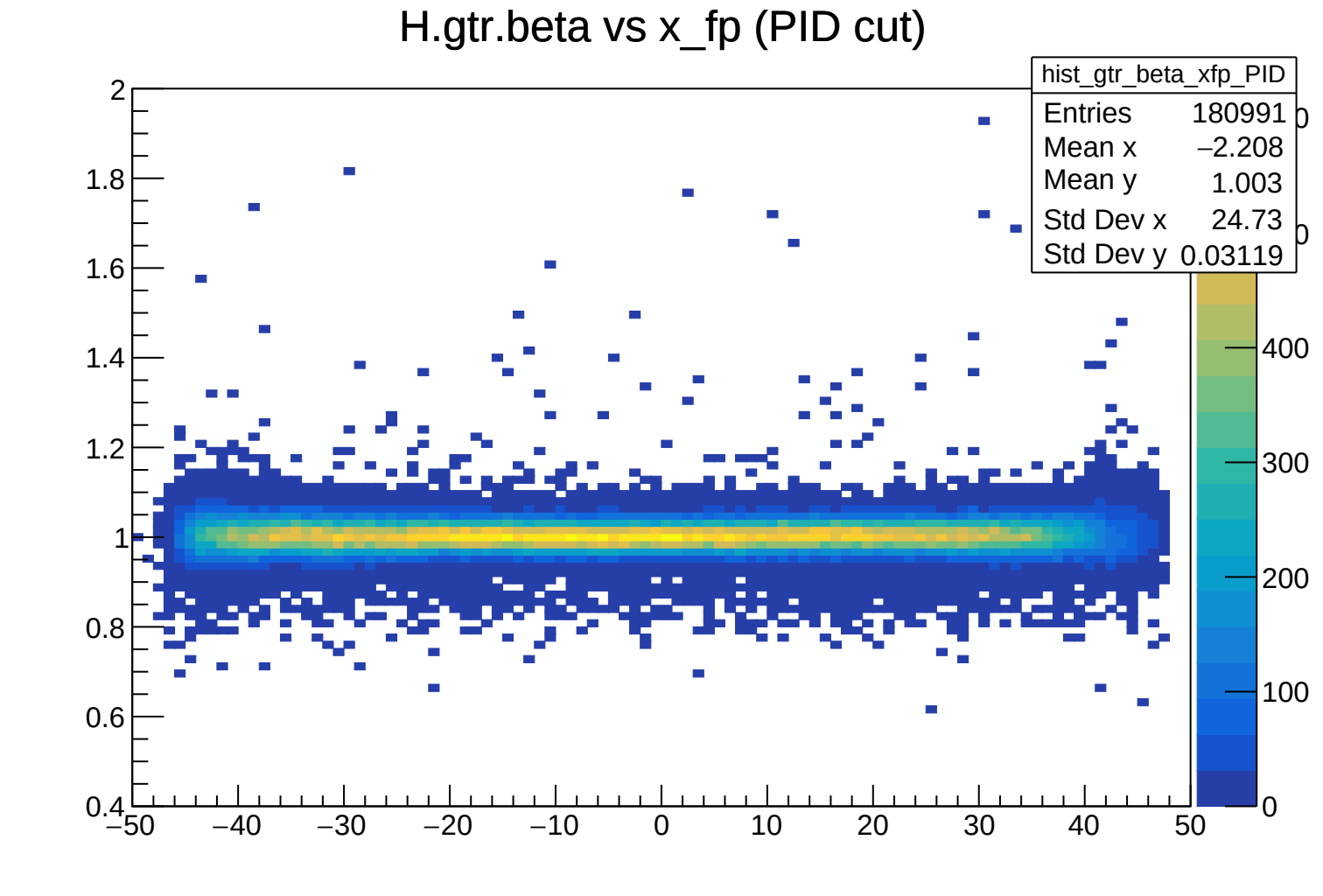

focal plane
hist_yfp_xfp
Entries 696357
Mean x −10.09
Mean y −1.121
Std Dev x 24.23
Std Dev y 8.975
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
250
200
150
100
50
0

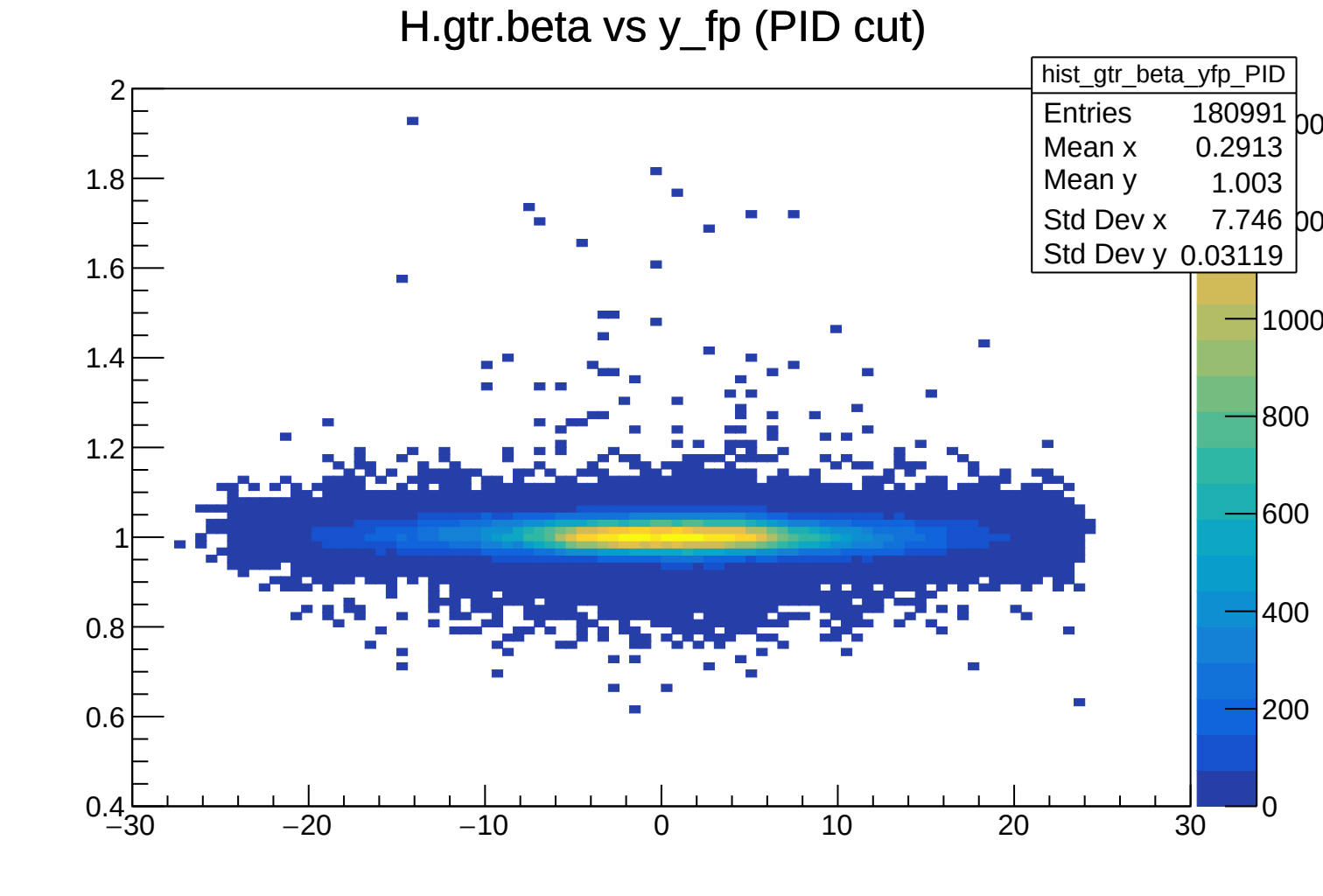

H.gtr.beta vs x_fp
hist_gtr_beta_xfp
Entries 696357
Mean x −10.01
Mean y 0.9971
Std Dev x 24.2
Std Dev y 0.04463
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−50
−40
−30
−20
−10
0
10
20
30
40
50
1600
1400
1200
1000
800
600
400
200
0

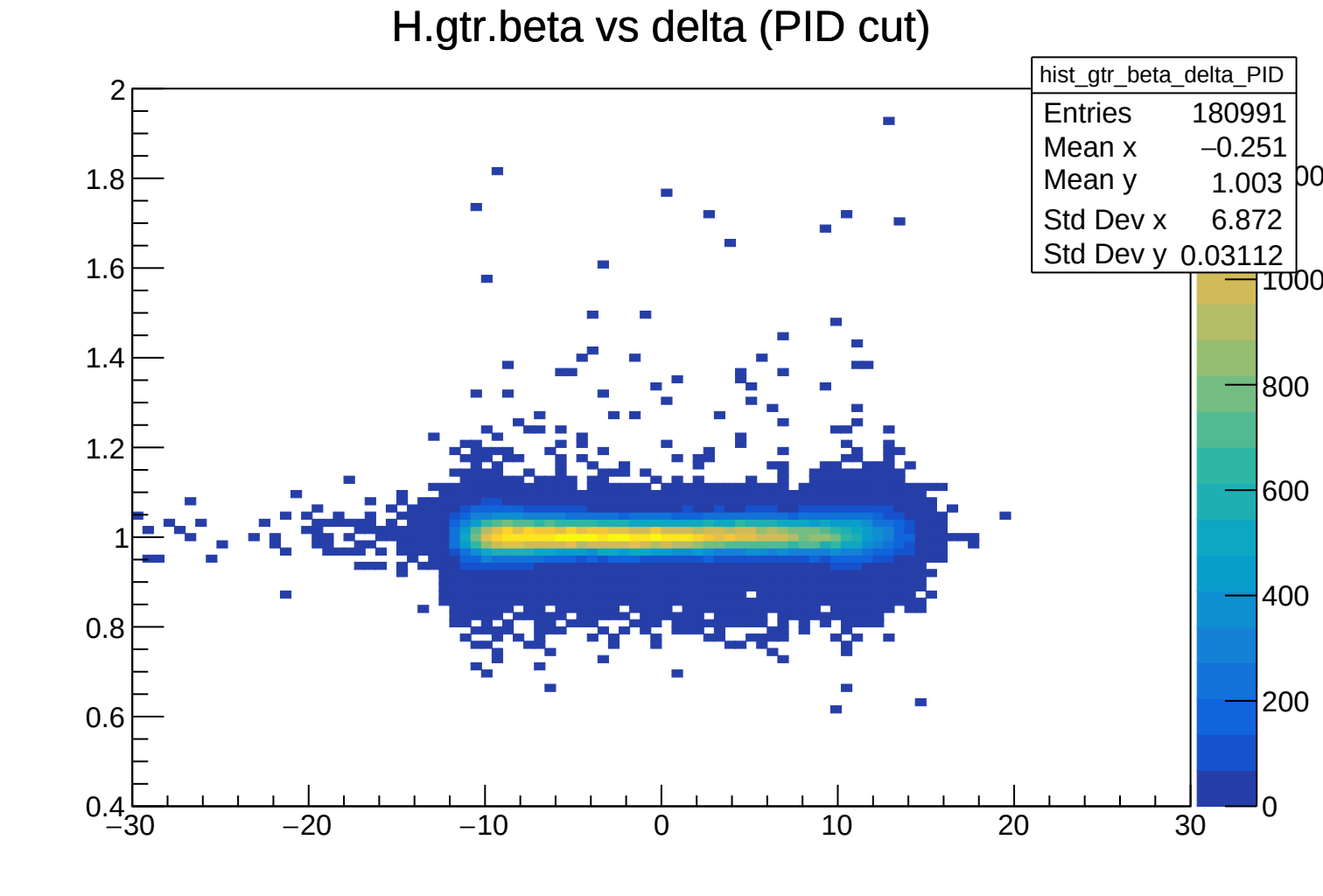

H.gtr.beta vs y_fp
hist_gtr_beta_yfp
Entries 696357
Mean x −1.125
Mean y 0.9971
Std Dev x 8.949
Std Dev y 0.04476
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
3000
2500
2000
1500
1000
500
0

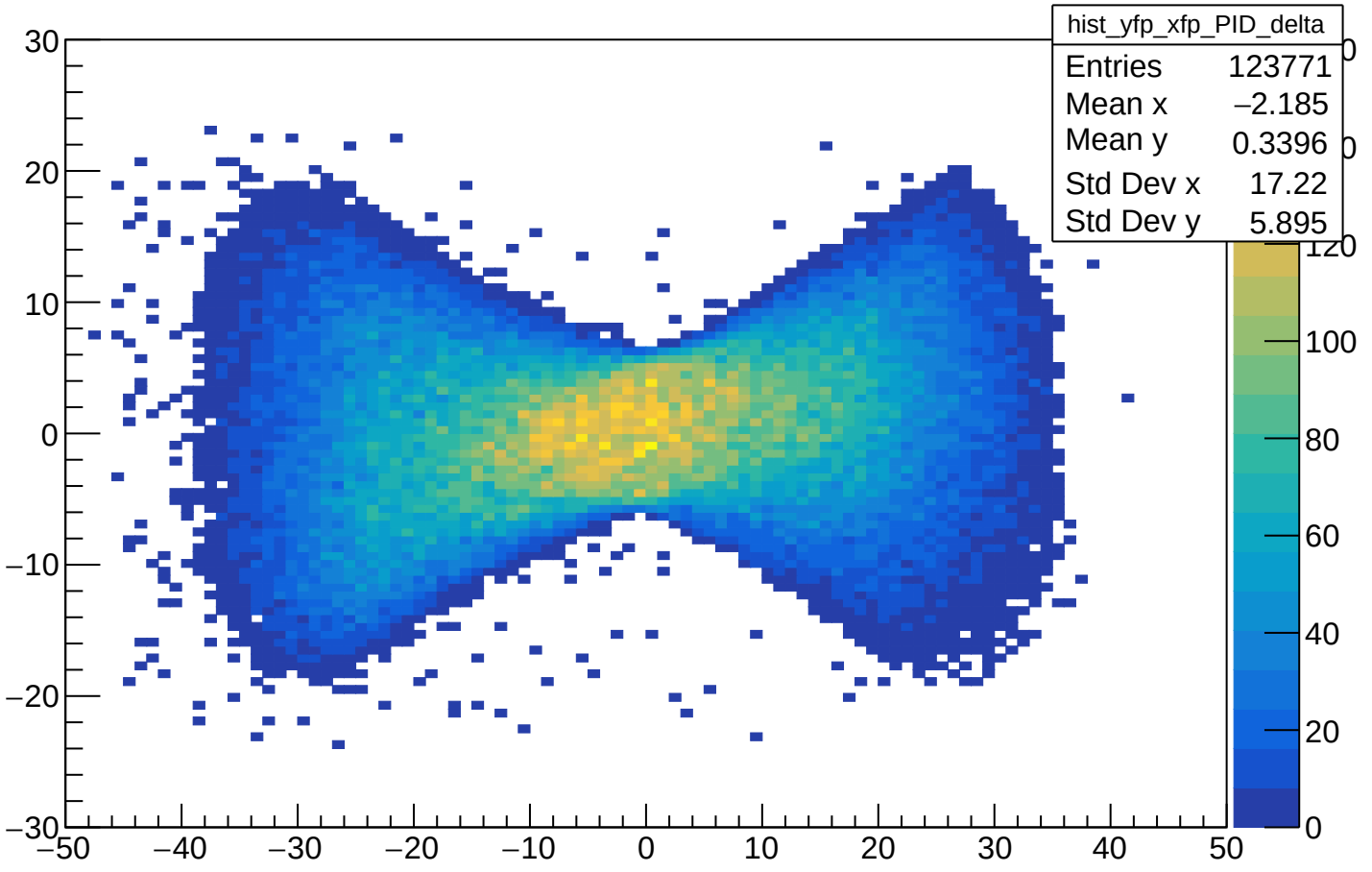

H.gtr.beta vs delta
hist_gtr_beta_delta
Entries 696357
Mean x −2.3
Mean y 0.9971
Std Dev x 6.623
Std Dev y 0.04408
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
3000
2000
1000
0

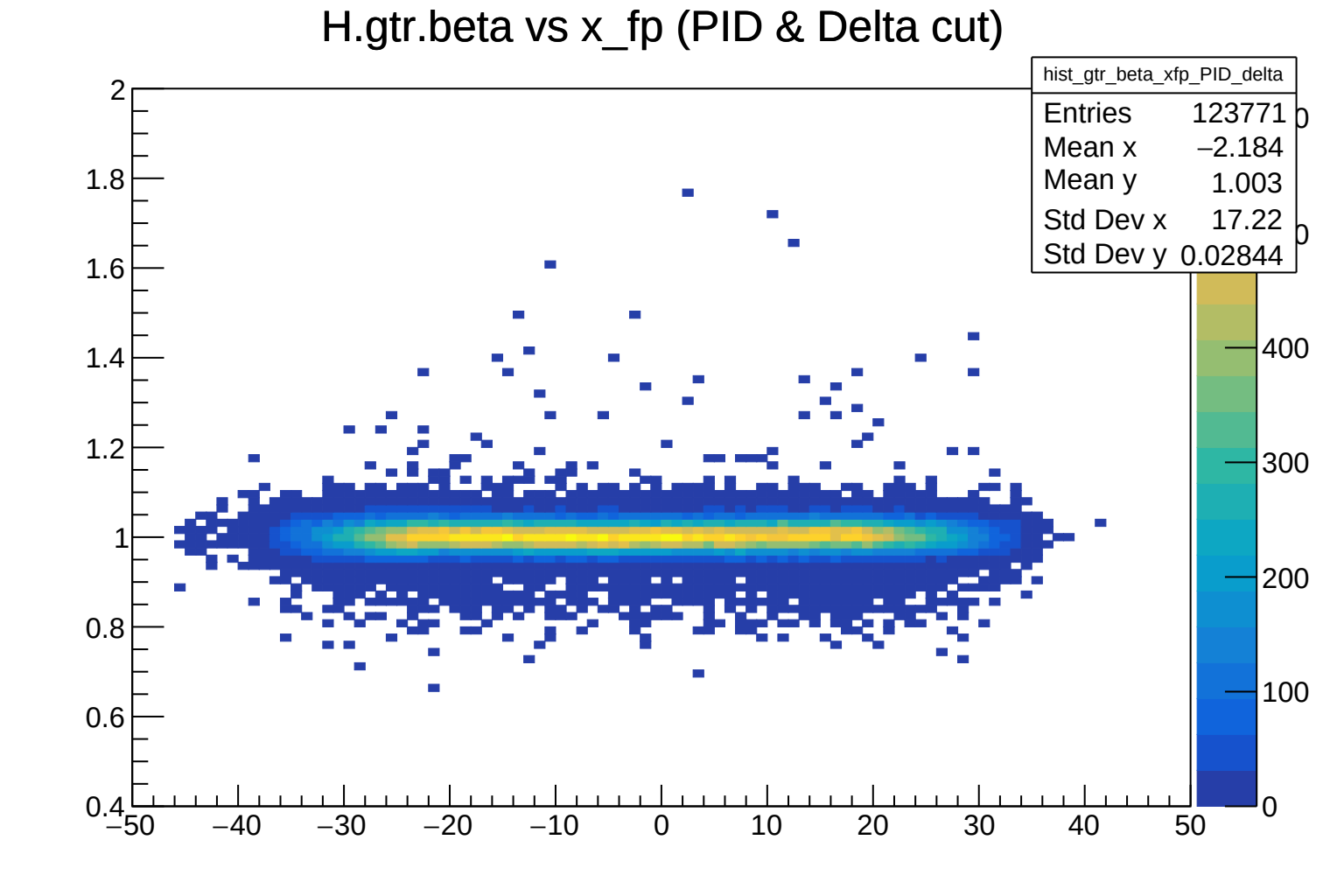

focal plane (PID cut)
hist_yfp_xfp_PID
Entries 180991
Mean x −2.231
Mean y 0.2915
Std Dev x 24.74
Std Dev y 7.747
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
120
100
80
60
40
20
0

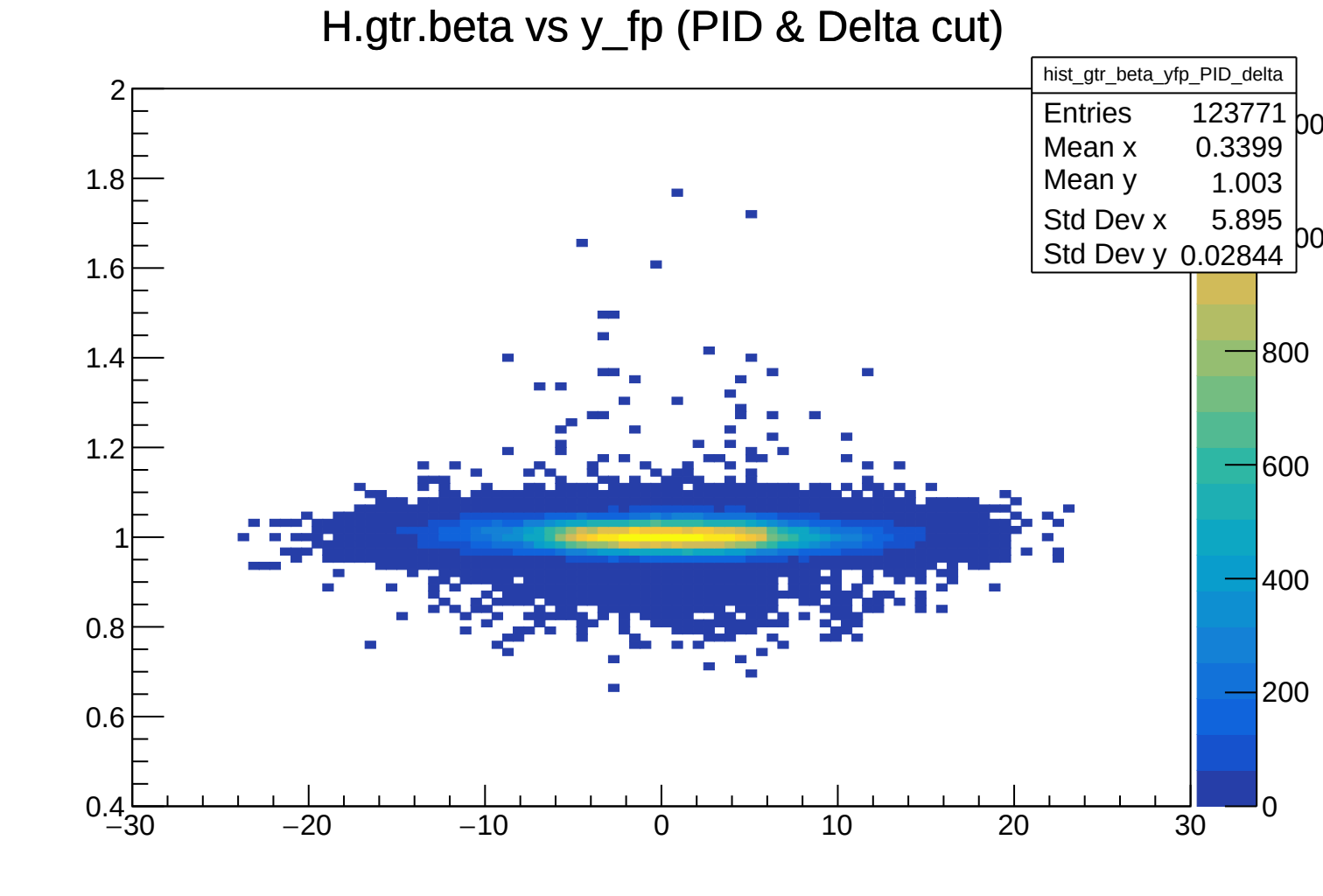

H.gtr.beta vs x_fp (PID cut)
hist_gtr_beta_xfp_PID
Entries 180991
Mean x −2.208
Mean y 1.003
Std Dev x 24.73
Std Dev y 0.03119
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−50
−40
−30
−20
−10
0
10
20
30
40
50
400
300
200
100
0

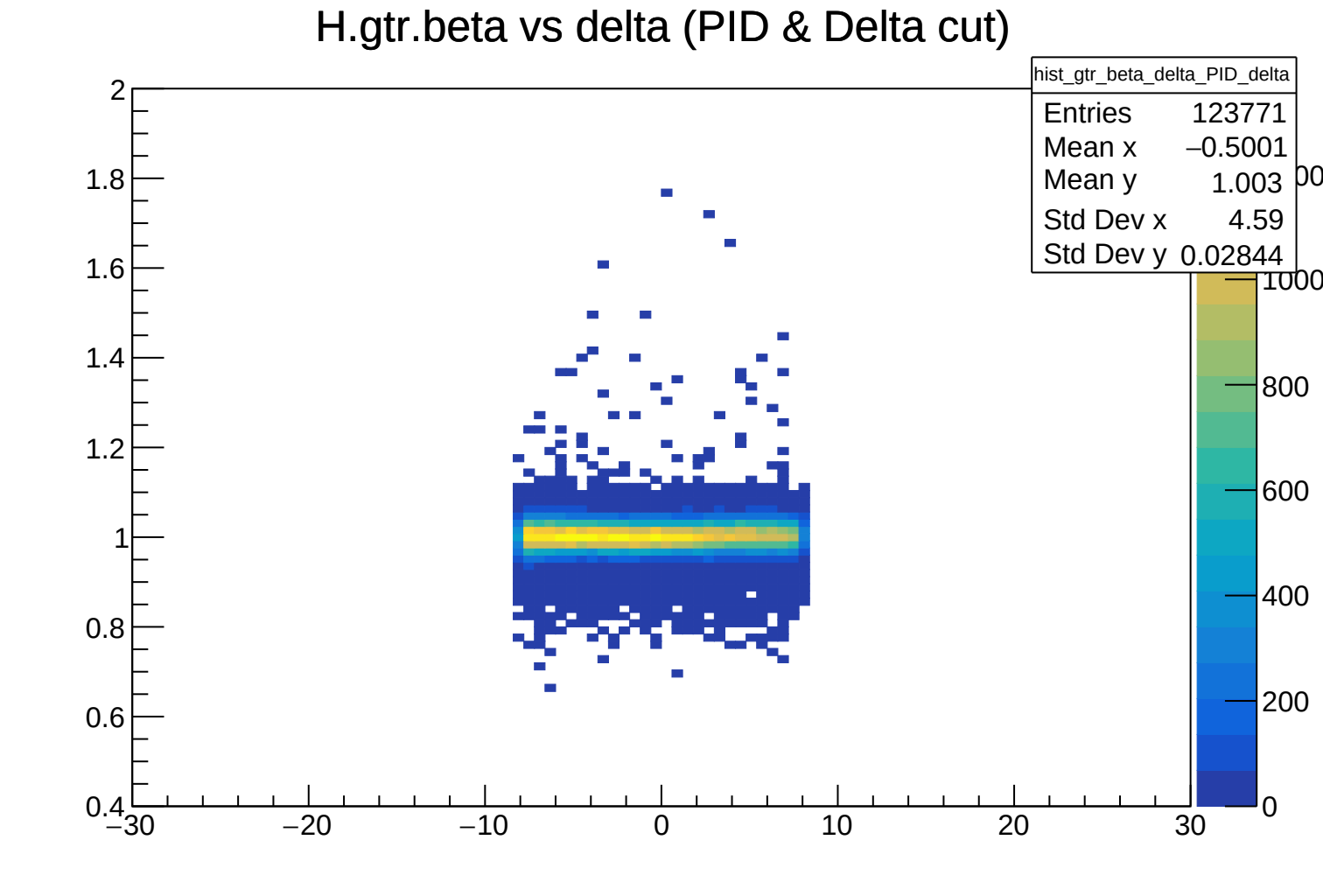

H.gtr.beta vs y_fp (PID cut)
hist_gtr_beta_yfp_PID
Entries 180991
Mean x 0.2913
Mean y 1.003
Std Dev x 7.746
Std Dev y 0.03119
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
1000
800
600
400
200
0


H.gtr.beta vs delta (PID cut)
hist_gtr_beta_delta_PID
Entries 180991
Mean x −0.251
Mean y 1.003
Std Dev x 6.872
Std Dev y 0.03112
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
1000
800
600
400
200
0


focal plane (PID & Delta cut)
hist_yfp_xfp_PID_delta
Entries 123771
Mean x −2.185
Mean y 0.3396
Std Dev x 17.22
Std Dev y 5.895
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
120
100
80
60
40
20
0


H.gtr.beta vs x_fp (PID & Delta cut)
hist_gtr_beta_xfp_PID_delta
Entries 123771
Mean x −2.184
Mean y 1.003
Std Dev x 17.22
Std Dev y 0.02844
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
400
300
200
100
0


H.gtr.beta vs y_fp (PID & Delta cut)
hist_gtr_beta_yfp_PID_delta
Entries 123771
Mean x 0.3399
Mean y 1.003
Std Dev x 5.895
Std Dev y 0.02844
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
800
600
400
200
0


H.gtr.beta vs delta (PID & Delta cut)
hist_gtr_beta_delta_PID_delta
Entries 123771
Mean x –0.5001
Mean y 1.003
Std Dev x 4.59
Std Dev y 0.02844
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
–30
–20
–10
0
10
20
30
1000
800
600
400
200
0