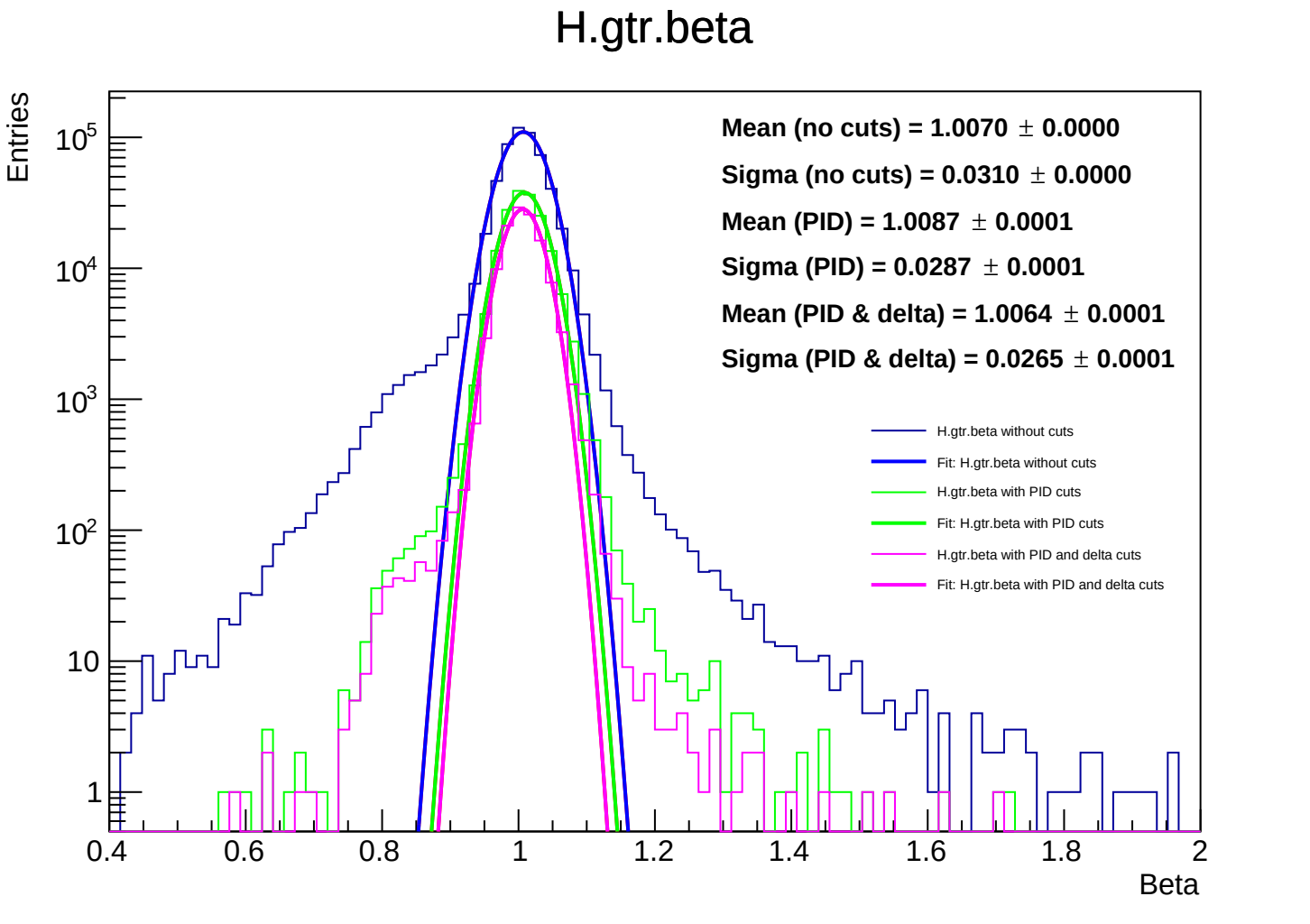
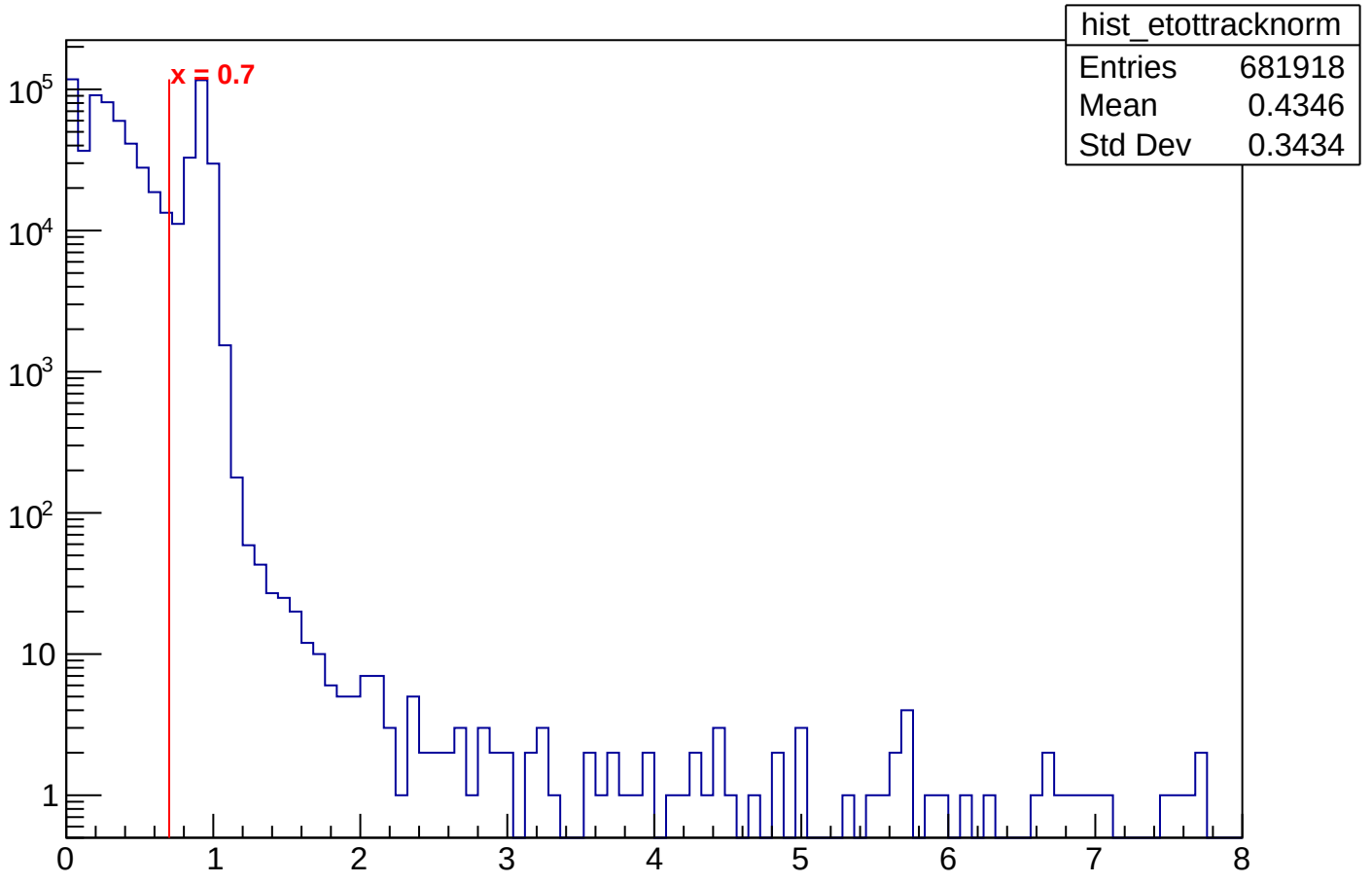
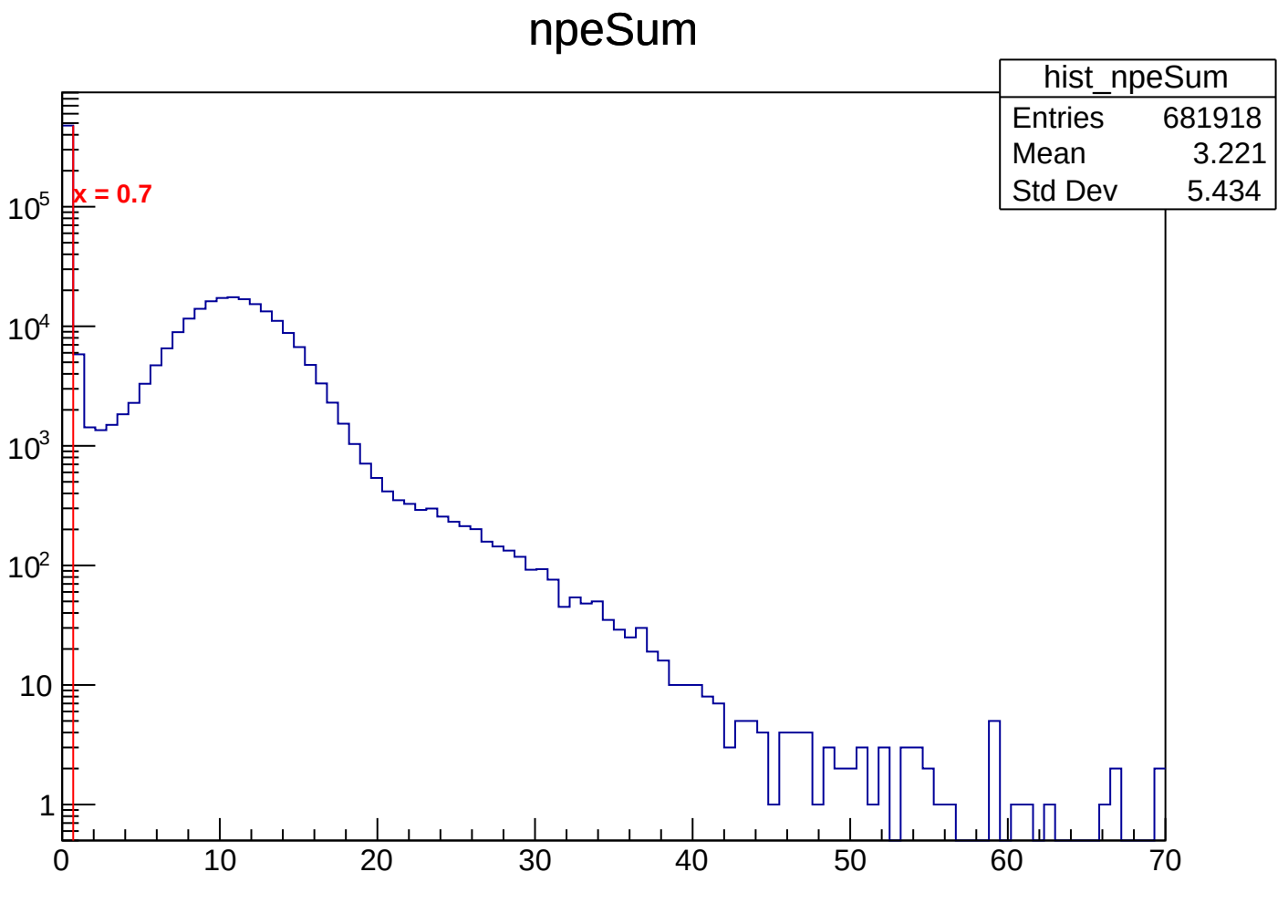
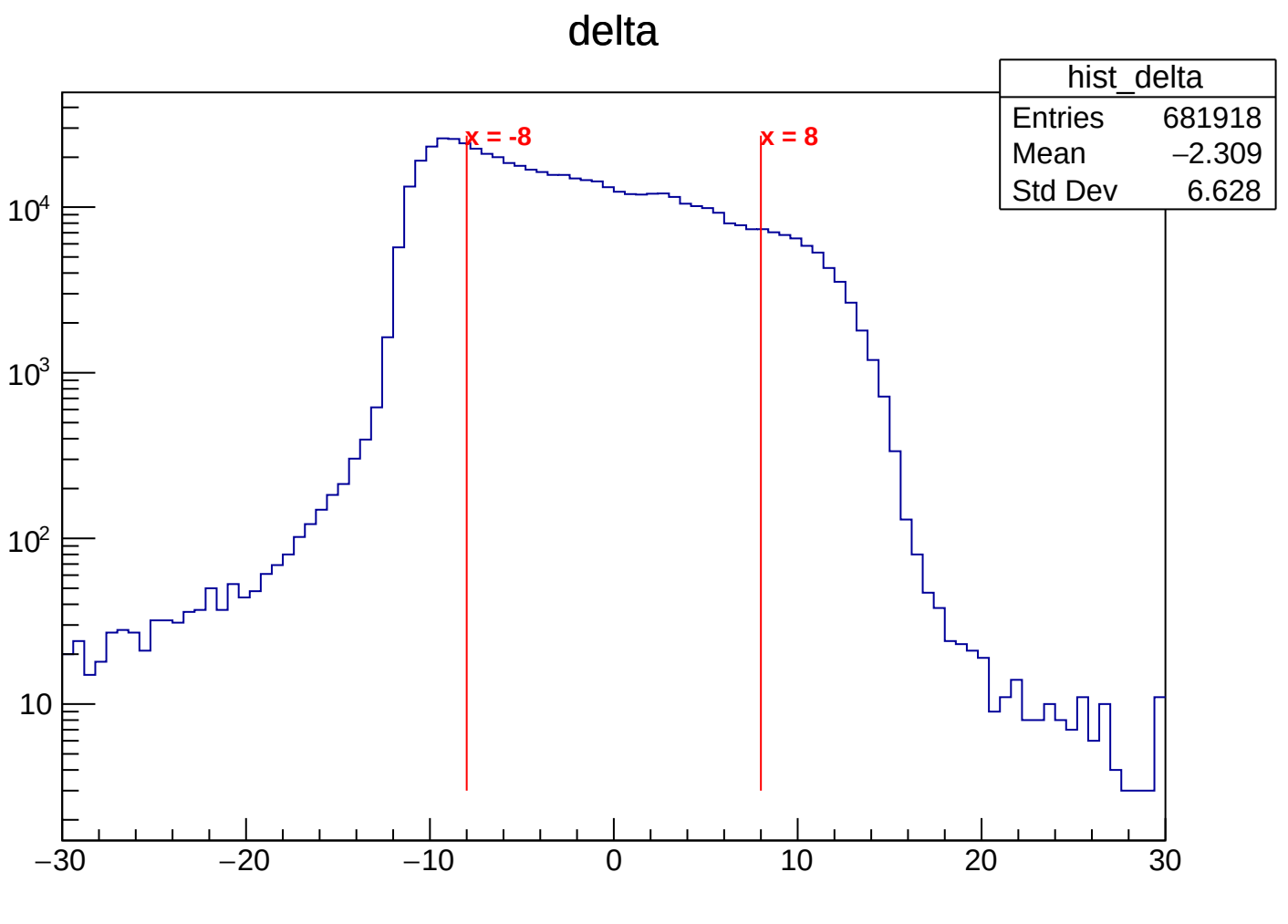
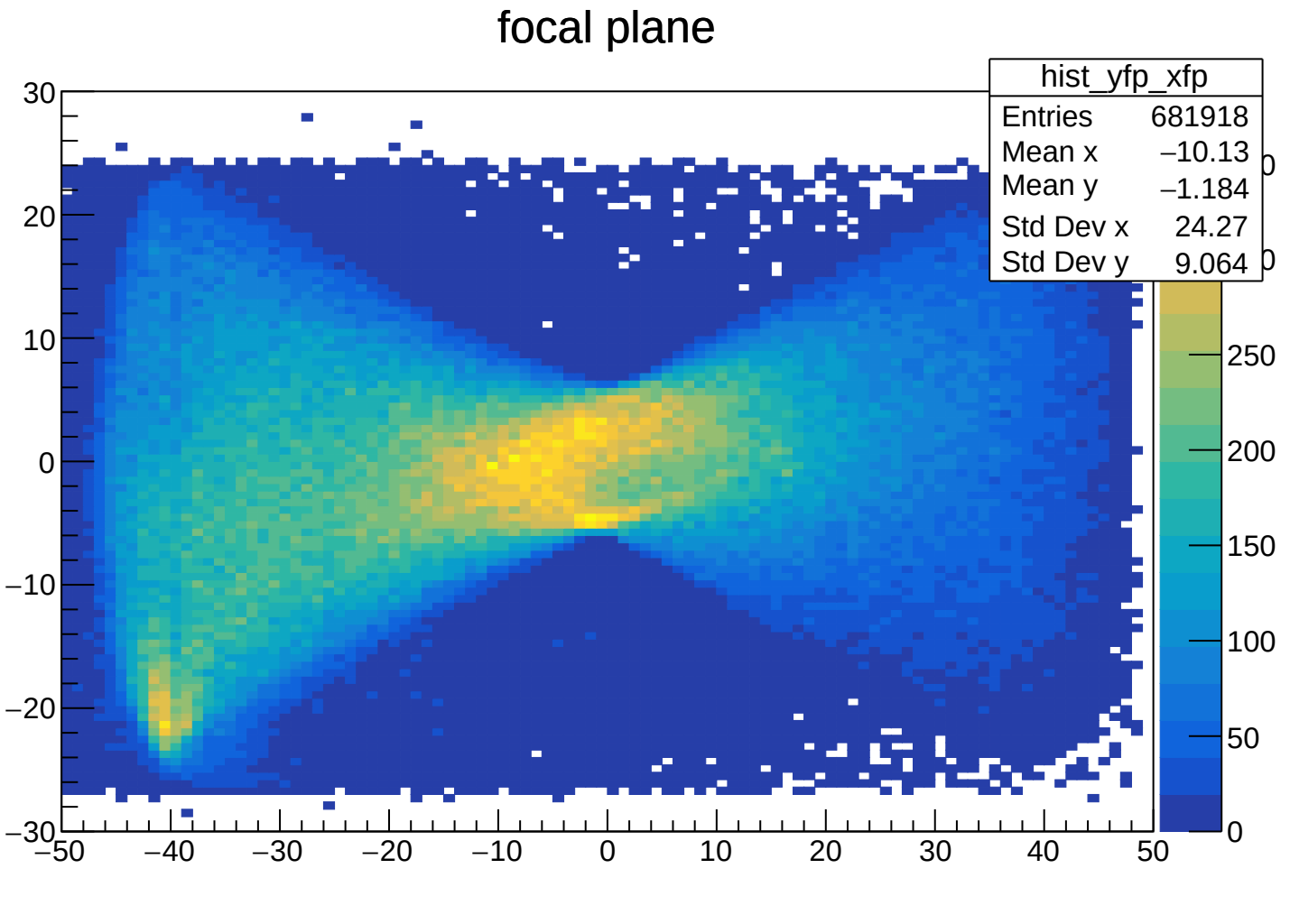
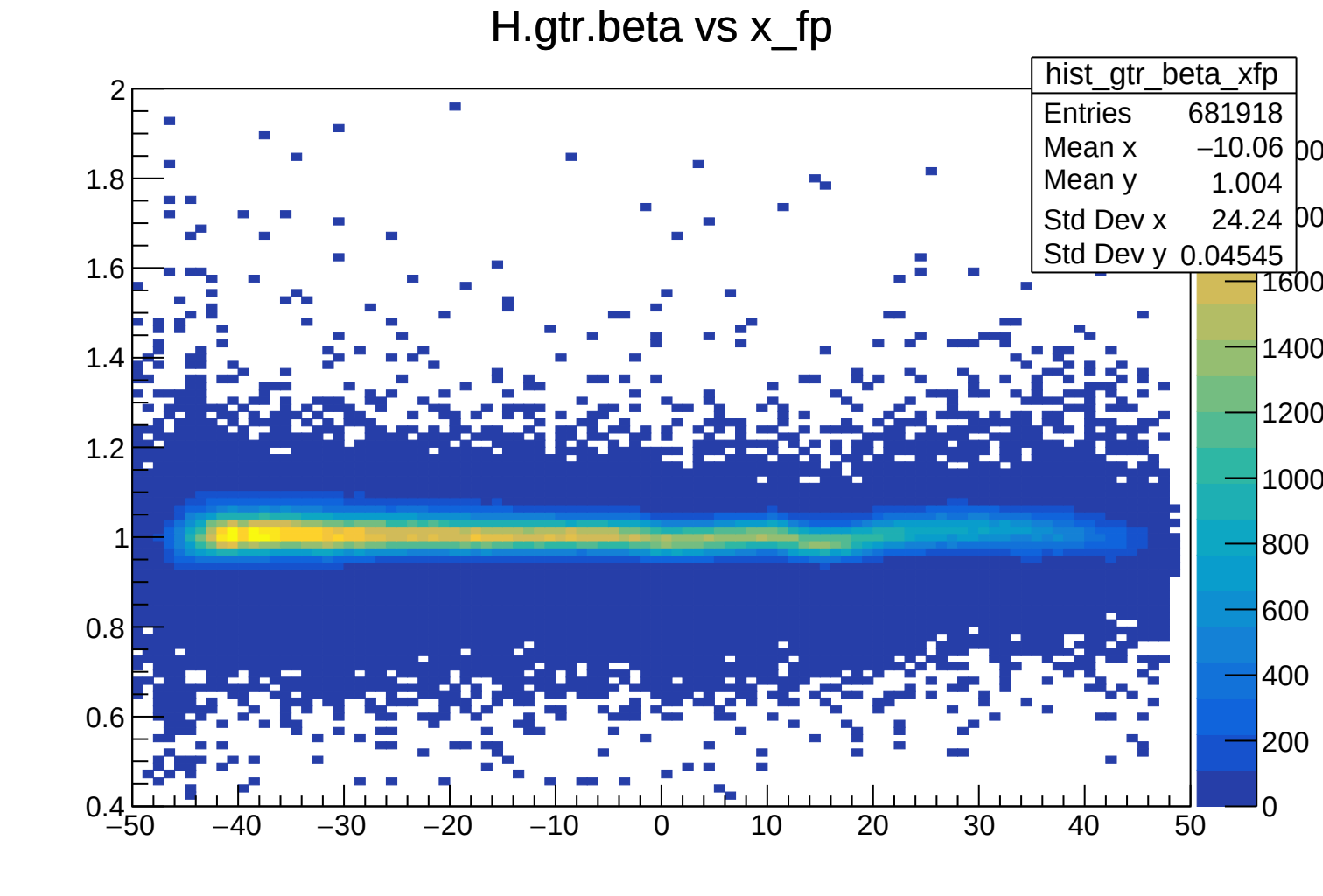

H.gtr.beta
Entries
Beta
Mean (no cuts) = 1.0070 ± 0.0000
Sigma (no cuts) = 0.0310 ± 0.0000
Mean (PID) = 1.0087 ± 0.0001
Sigma (PID) = 0.0287 ± 0.0001
Mean (PID & delta) = 1.0064 ± 0.0001
Sigma (PID & delta) = 0.0265 ± 0.0001
H.gtr.beta without cuts
Fit: H.gtr.beta without cuts
H.gtr.beta with PID cuts
Fit: H.gtr.beta with PID cuts
H.gtr.beta with PID and delta cuts
Fit: H.gtr.beta with PID and delta cuts

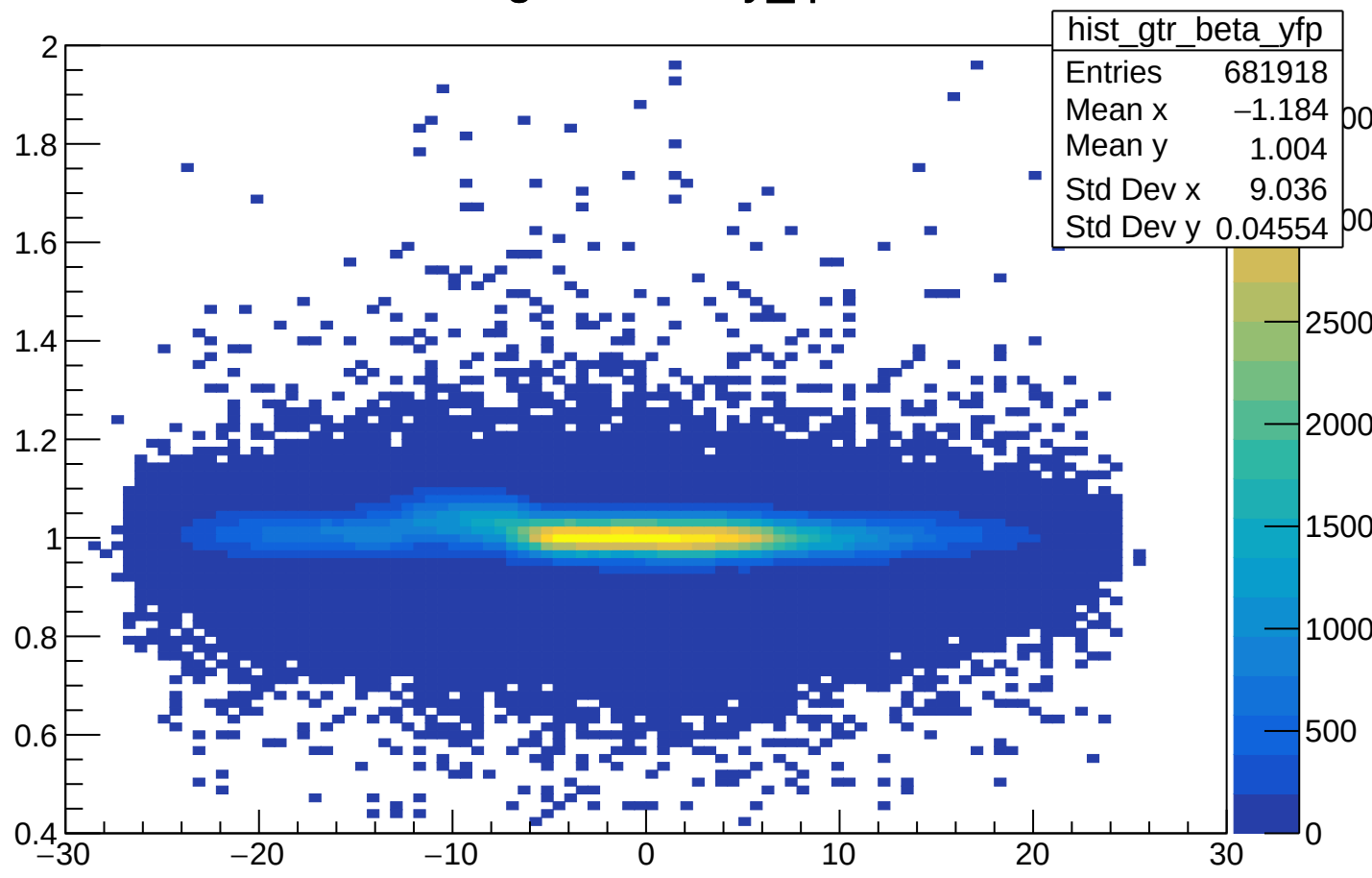

etottracknorm
hist_etottracknorm
Entries 681918
Mean 0.4346
Std Dev 0.3434
x = 0.7
10^5
10^4
10^3
10^2
10
1
0
1
2
3
4
5
6
7
8

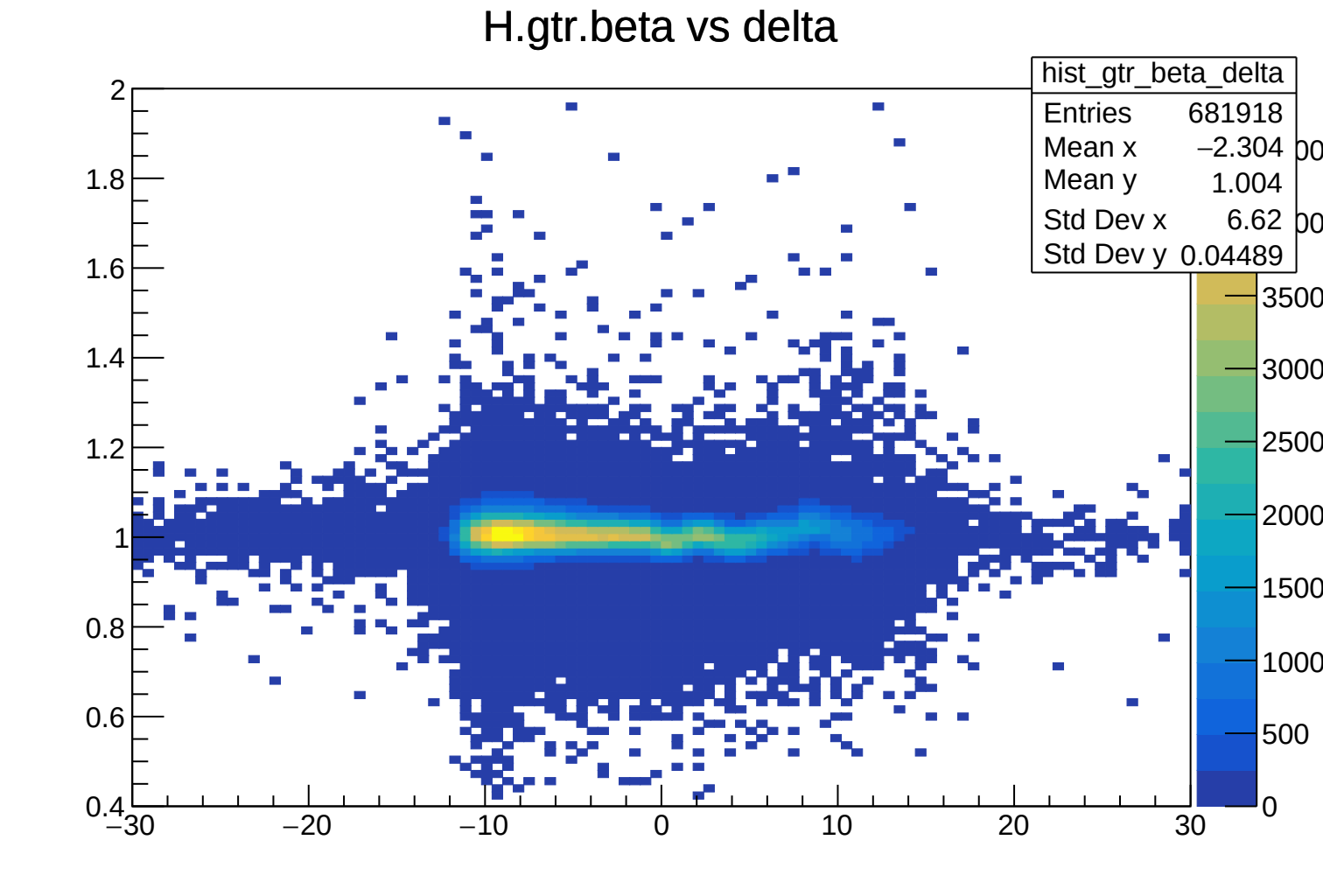

npeSum
hist_npeSum
Entries 681918
Mean 3.221
Std Dev 5.434
x = 0.7
10^5
10^4
10^3
10^2
10
1
0
10
20
30
40
50
60
70

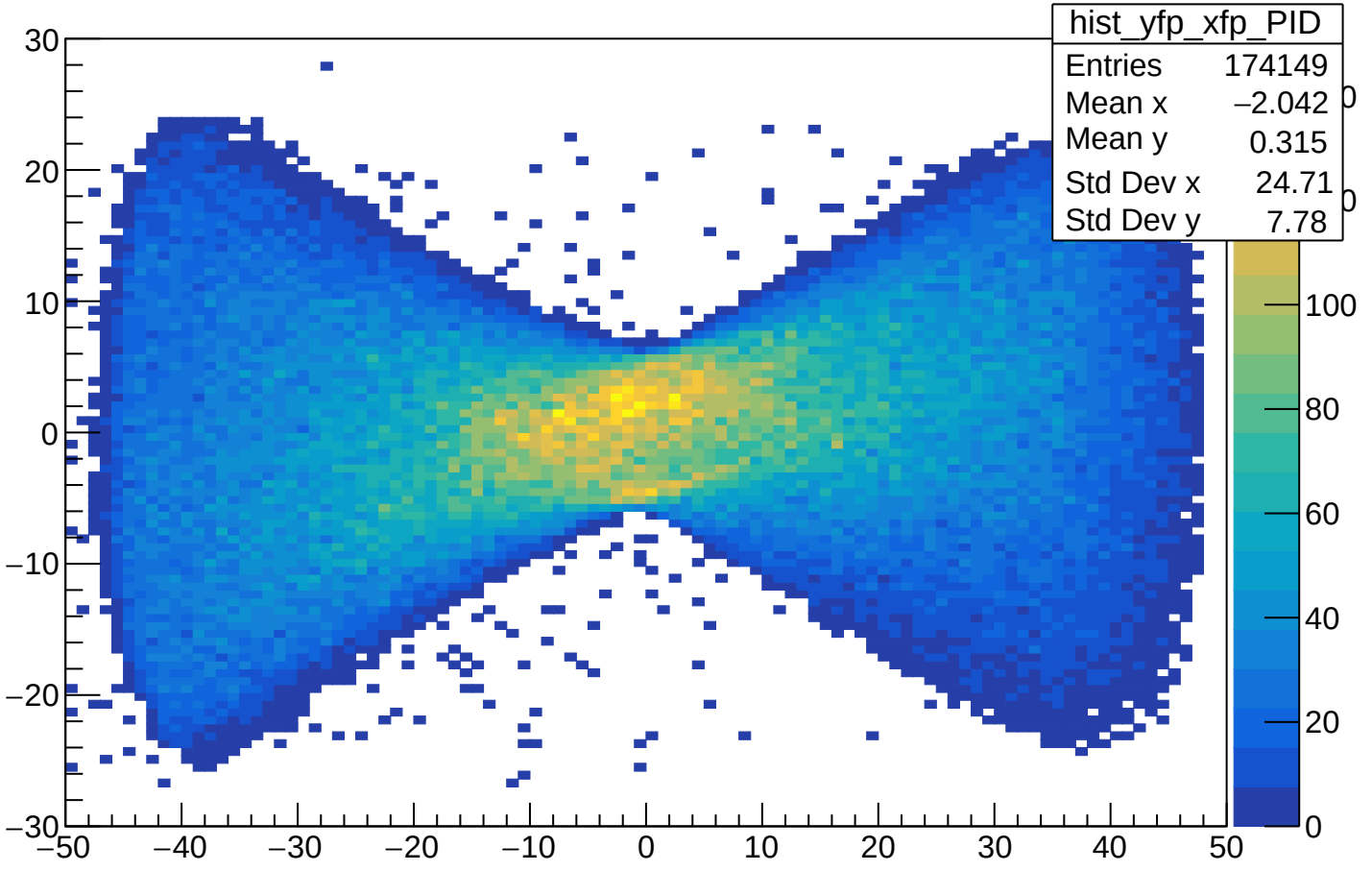

delta
hist_delta
Entries 681918
Mean −2.309
Std Dev 6.628
x = -8
x = 8
10^4
10^3
10^2
10
−30
−20
−10
0
10
20
30

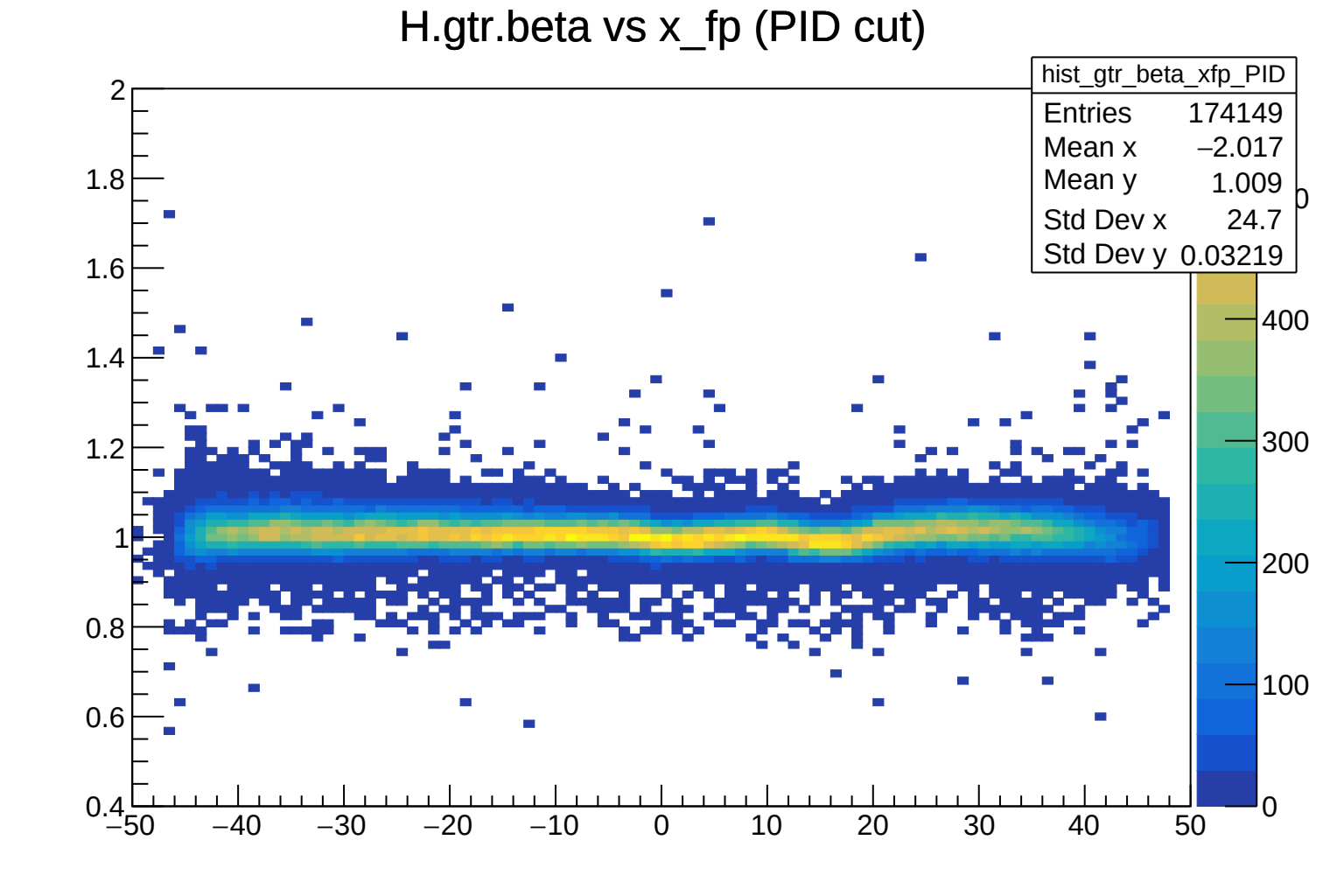

focal plane
hist_yfp_xfp
Entries 681918
Mean x −10.13
Mean y −1.184
Std Dev x 24.27
Std Dev y 9.064
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
250
200
150
100
50
0

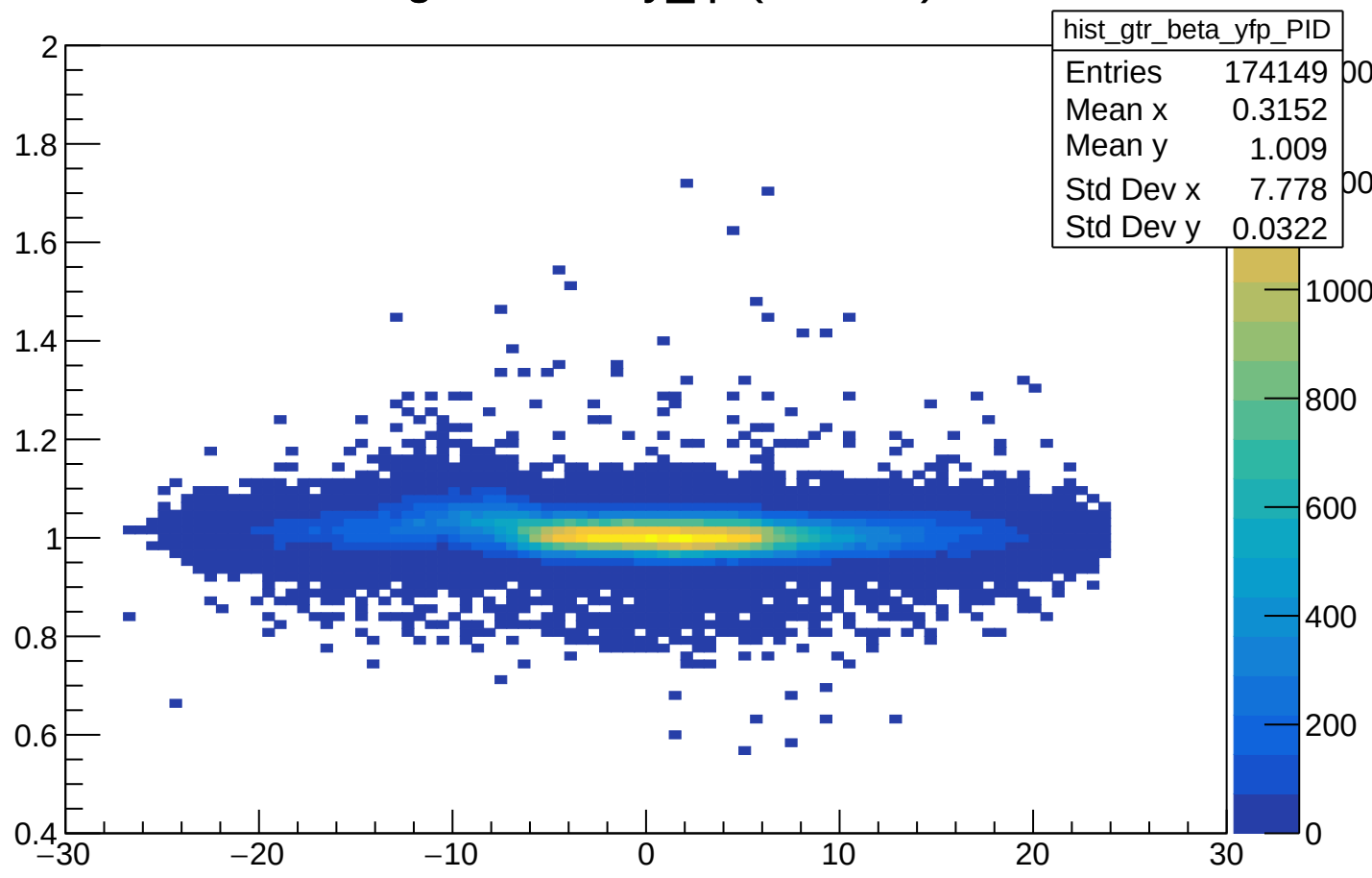

H.gtr.beta vs x_fp
hist_gtr_beta_xfp
Entries 681918
Mean x −10.06
Mean y 1.004
Std Dev x 24.24
Std Dev y 0.04545
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−50
−40
−30
−20
−10
0
10
20
30
40
50
1600
1400
1200
1000
800
600
400
200
0

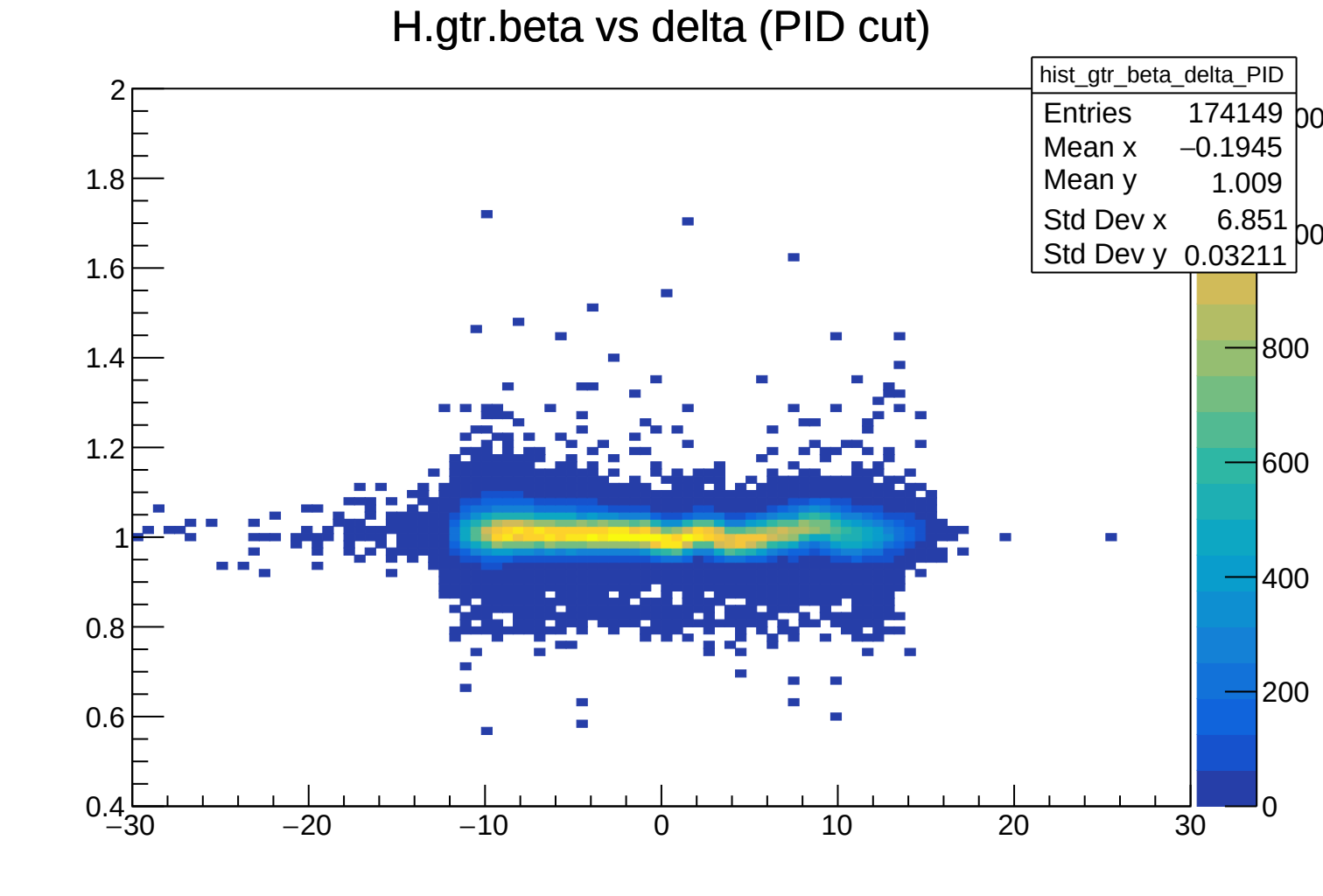

H.gtr.beta vs y_fp
hist_gtr_beta_yfp
Entries 681918
Mean x −1.184
Mean y 1.004
Std Dev x 9.036
Std Dev y 0.04554
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
2500
2000
1500
1000
500
0

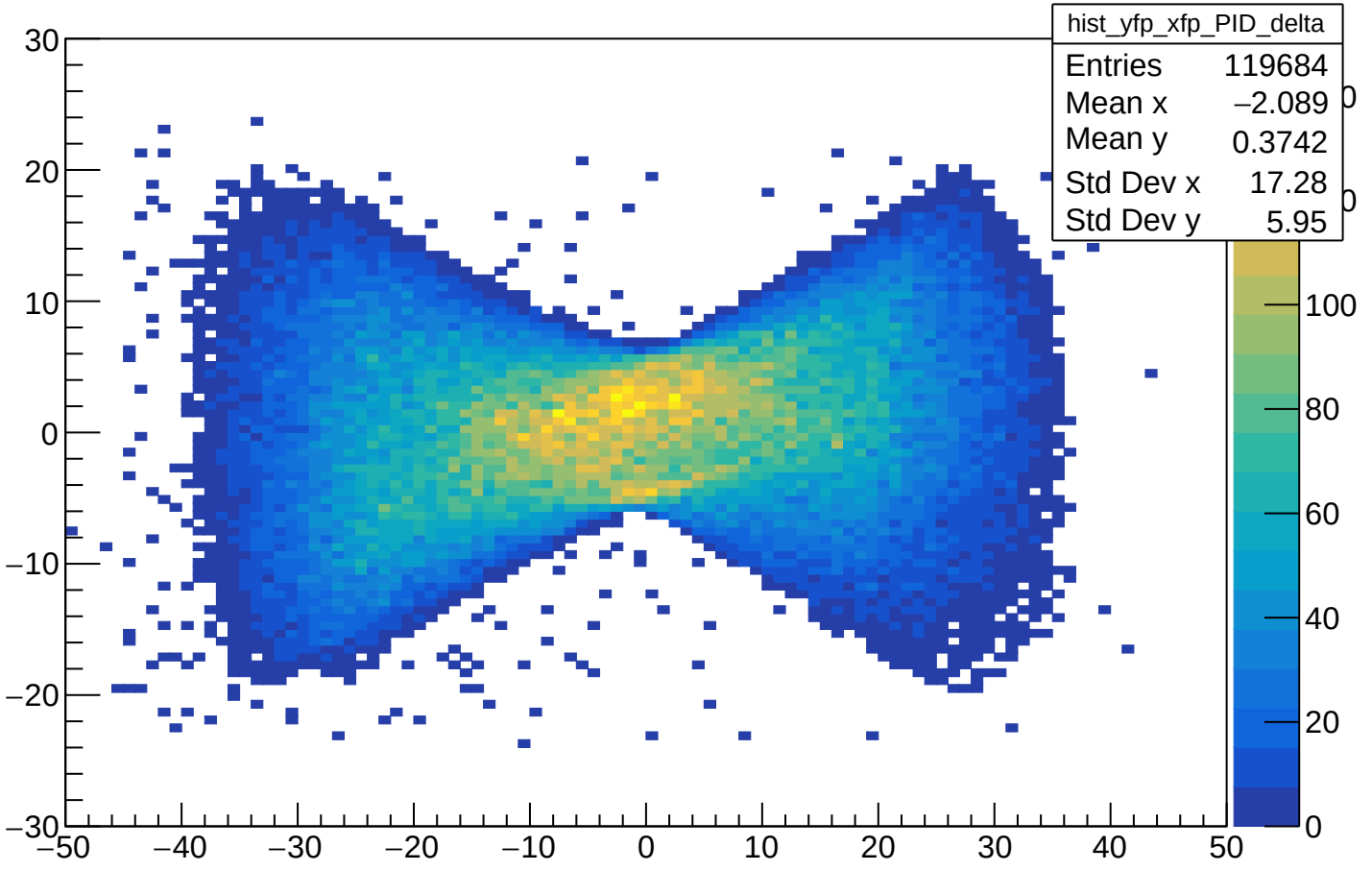

H.gtr.beta vs delta
hist_gtr_beta_delta
Entries 681918
Mean x −2.304
Mean y 1.004
Std Dev x 6.62
Std Dev y 0.04489
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
3500
3000
2500
2000
1500
1000
500
0

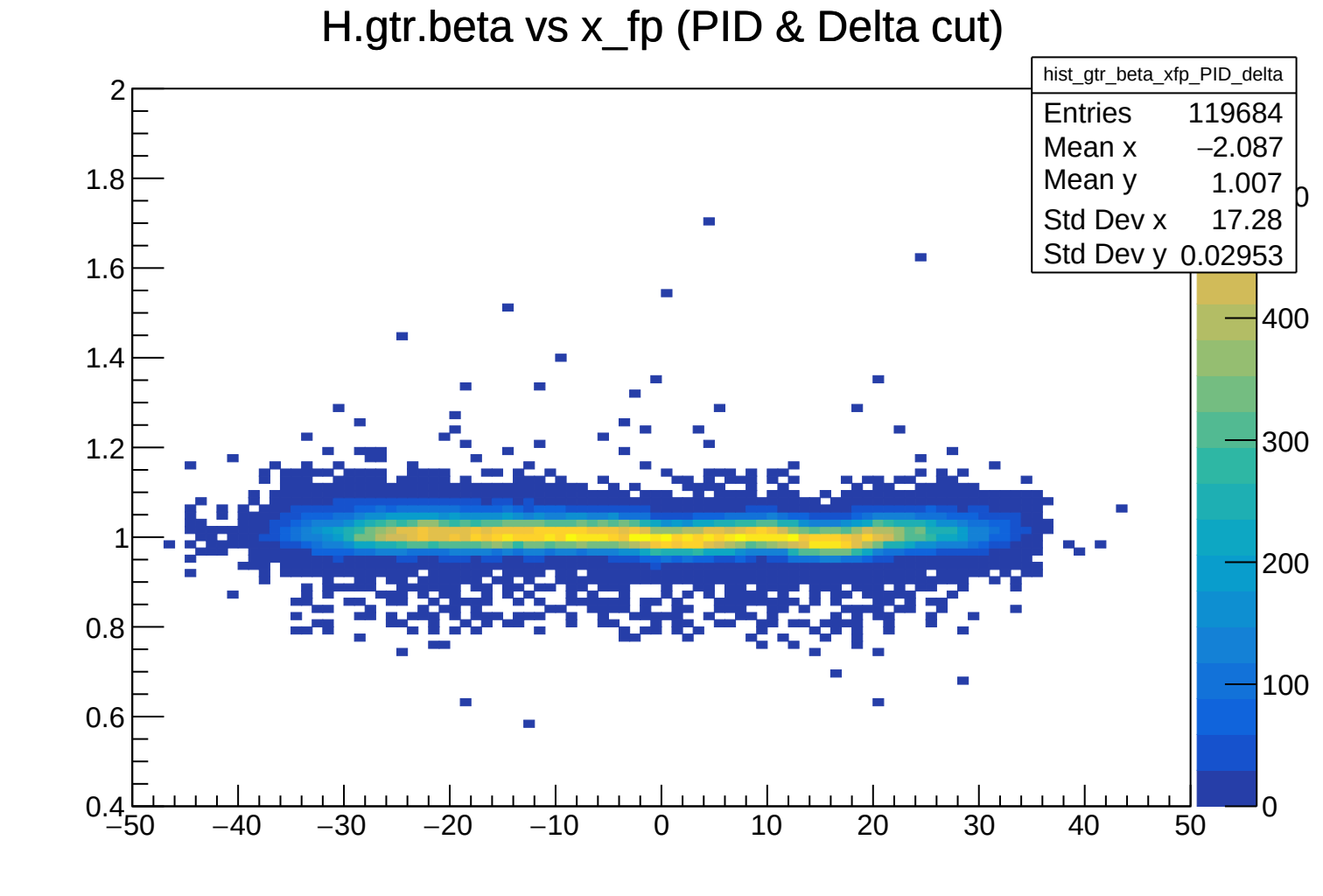

focal plane (PID cut)
hist_yfp_xfp_PID
Entries 174149
Mean x −2.042
Mean y 0.315
Std Dev x 24.71
Std Dev y 7.78
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
100
80
60
40
20
0

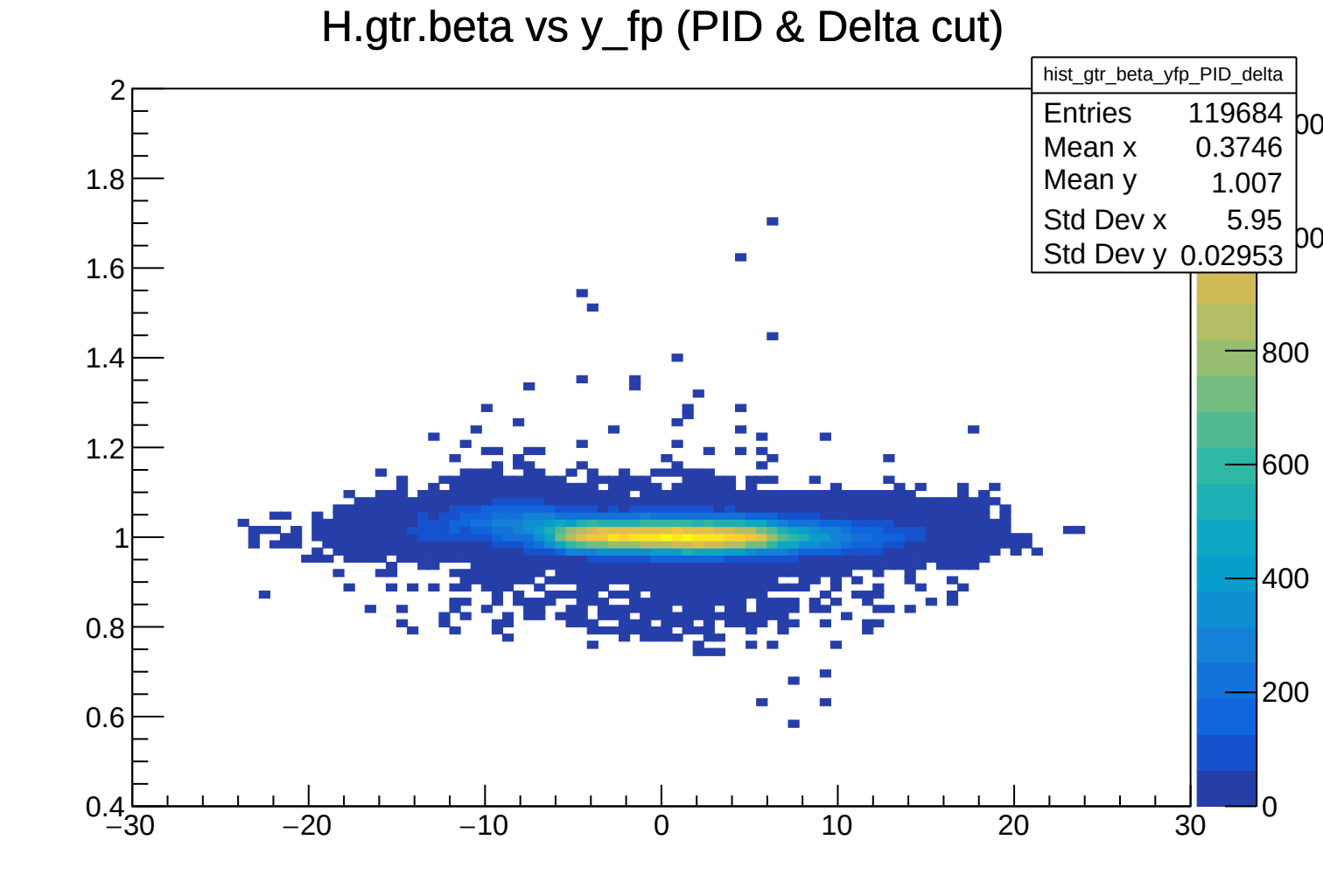

H.gtr.beta vs x_fp (PID cut)
hist_gtr_beta_xfp_PID
Entries 174149
Mean x −2.017
Mean y 1.009
Std Dev x 24.7
Std Dev y 0.03219
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−50
−40
−30
−20
−10
0
10
20
30
40
50
400
300
200
100
0

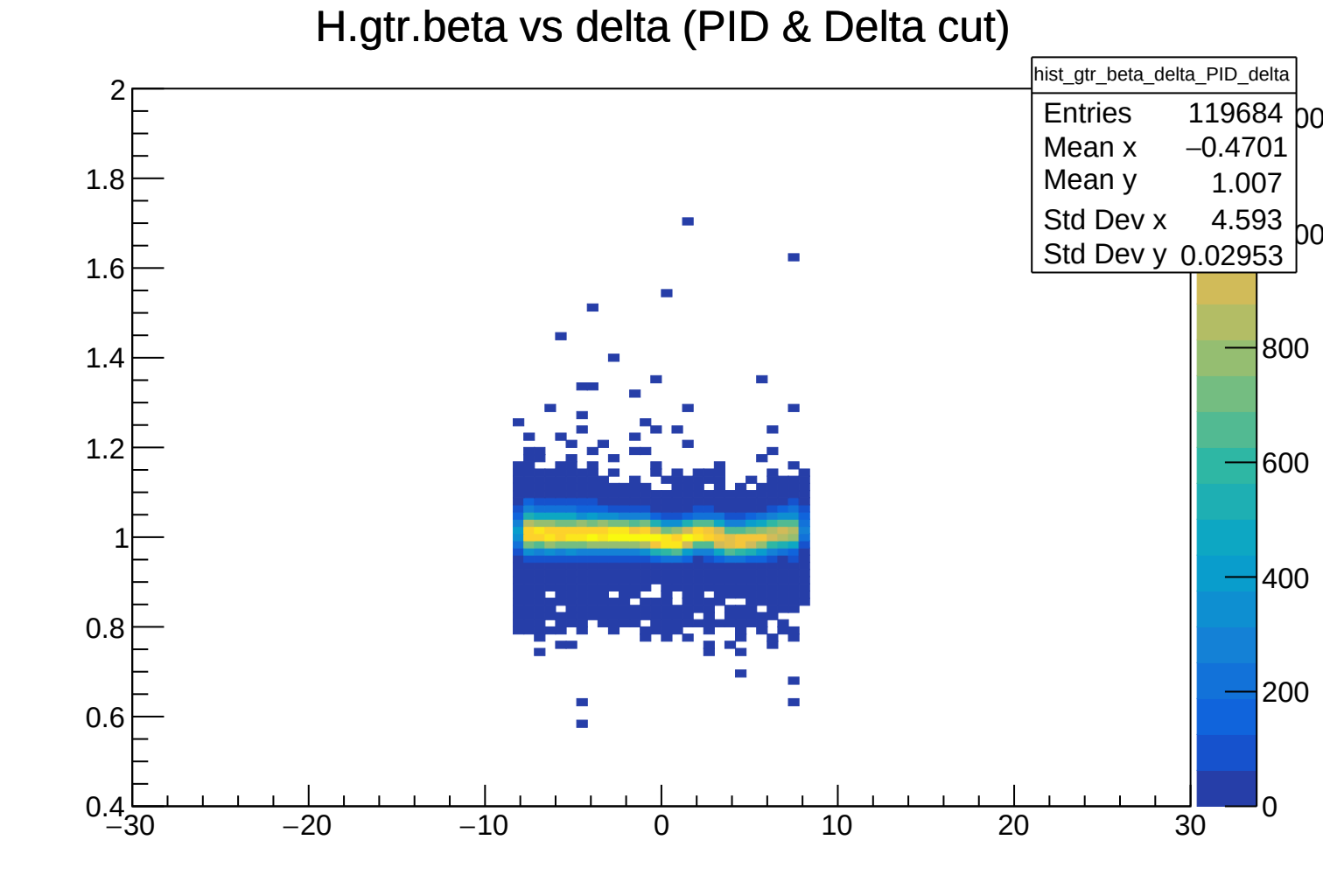

H.gtr.beta vs y_fp (PID cut)
hist_gtr_beta_yfp_PID
Entries 174149
Mean x 0.3152
Mean y 1.009
Std Dev x 7.778
Std Dev y 0.0322
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
1000
800
600
400
200
0


H.gtr.beta vs delta (PID cut)
hist_gtr_beta_delta_PID
Entries 174149
Mean x −0.1945
Mean y 1.009
Std Dev x 6.851
Std Dev y 0.03211
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


focal plane (PID & Delta cut)
hist_yfp_xfp_PID_delta
Entries 119684
Mean x −2.089
Mean y 0.3742
Std Dev x 17.28
Std Dev y 5.95
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
100
80
60
40
20
0


H.gtr.beta vs x_fp (PID & Delta cut)
hist_gtr_beta_xfp_PID_delta
Entries 119684
Mean x −2.087
Mean y 1.007
Std Dev x 17.28
Std Dev y 0.02953
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 119684
Mean x 0.3746
Mean y 1.007
Std Dev x 5.95
Std Dev y 0.02953
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 119684
Mean x −0.4701
Mean y 1.007
Std Dev x 4.593
Std Dev y 0.02953
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