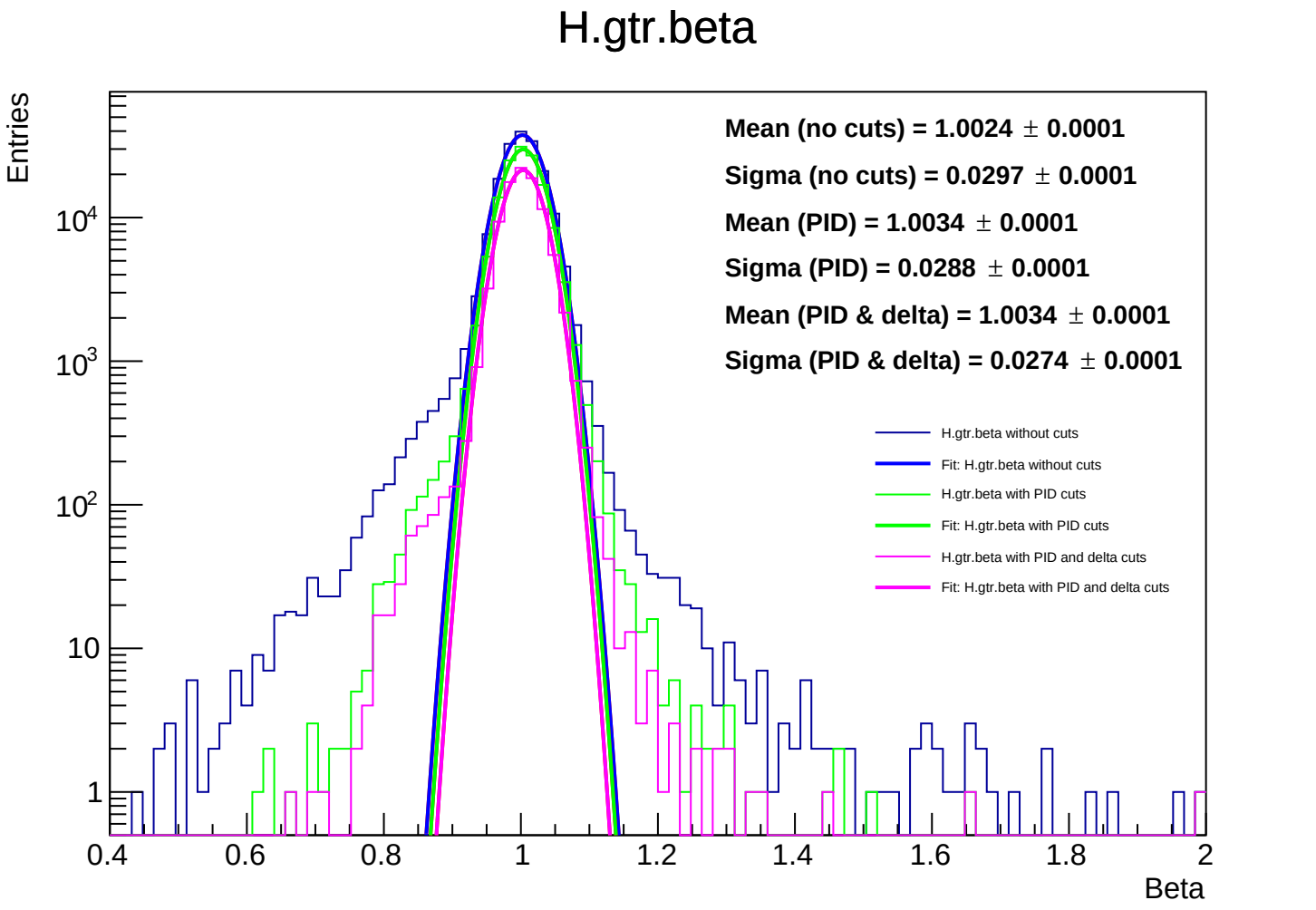
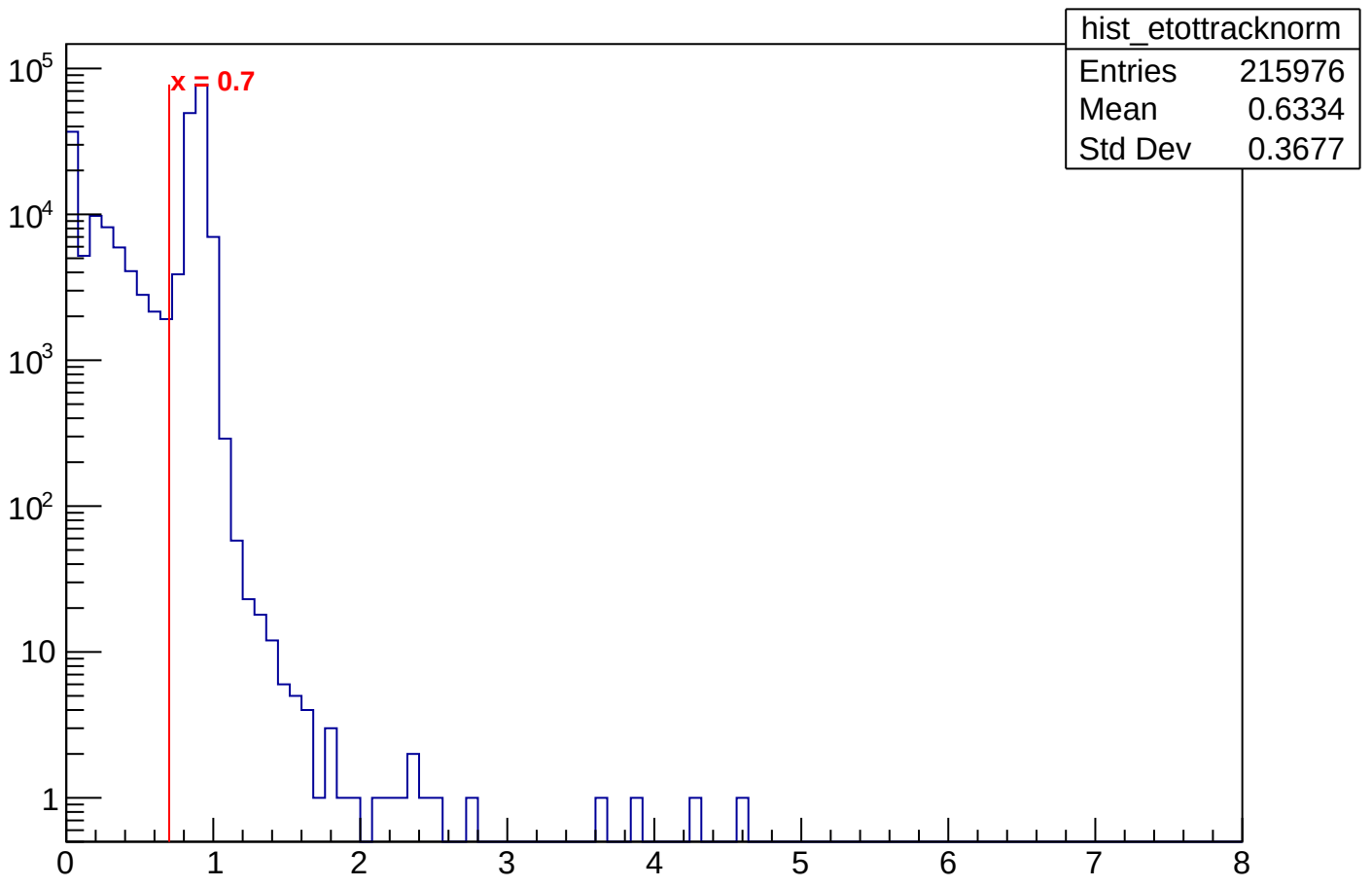
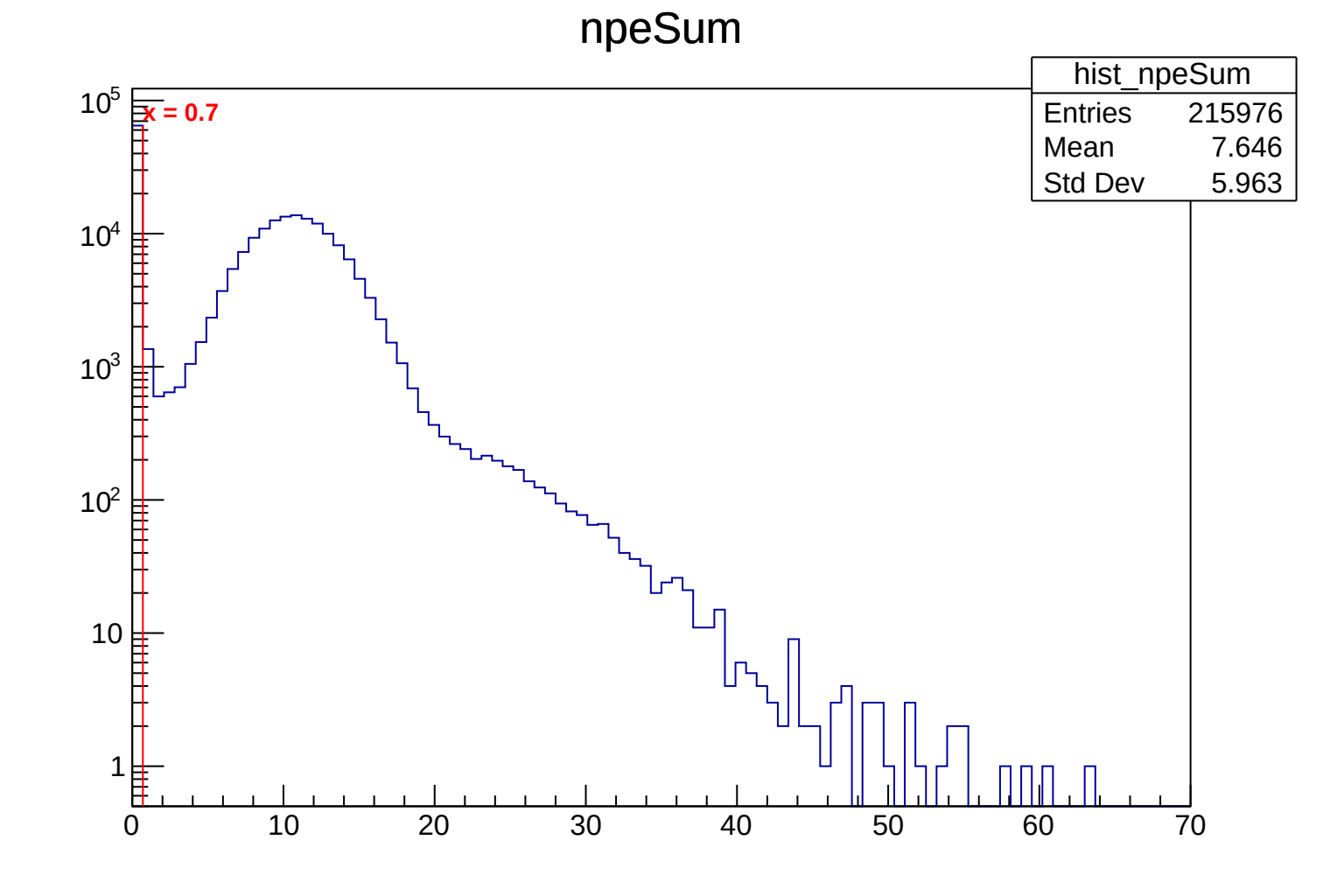
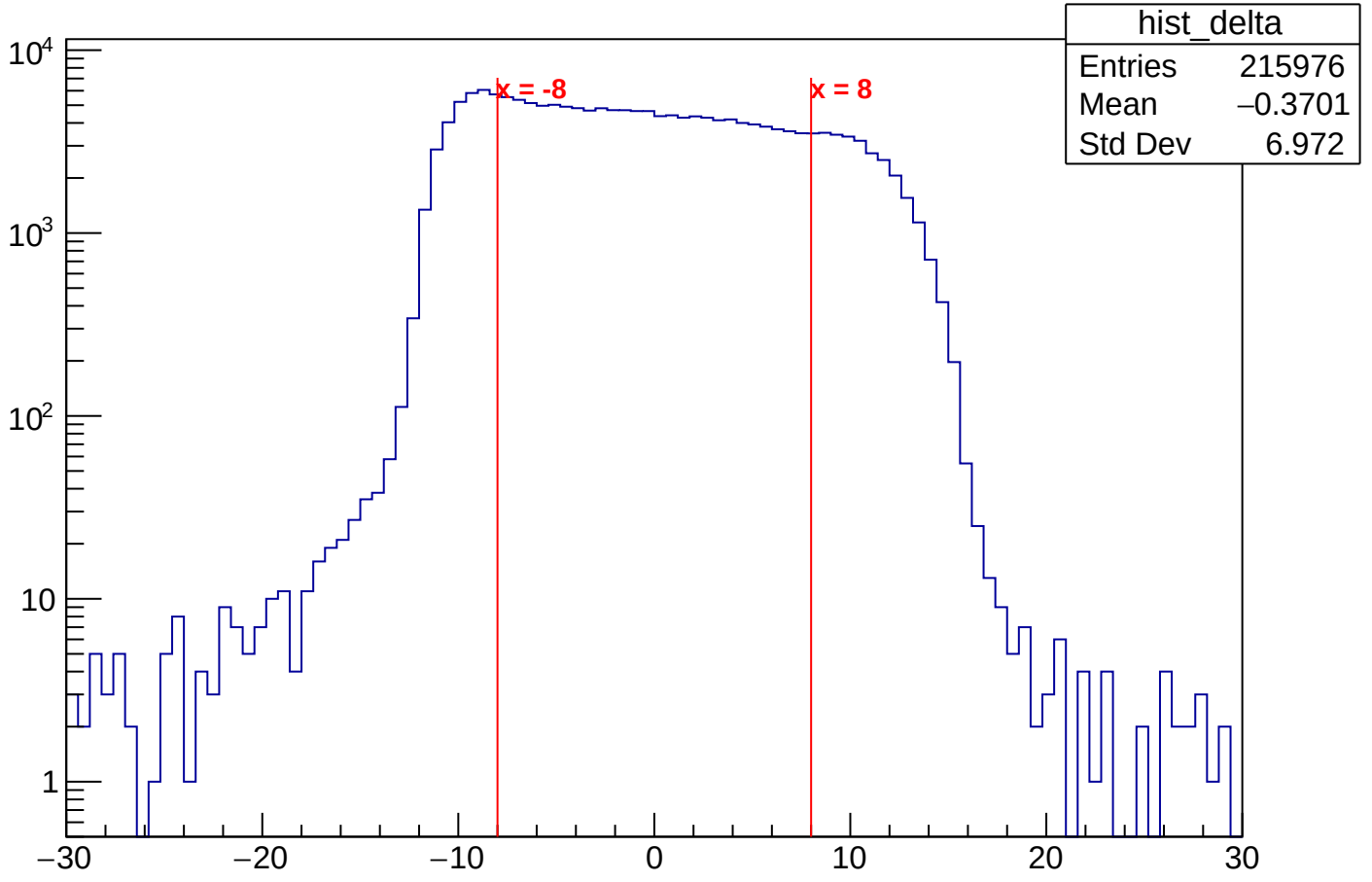
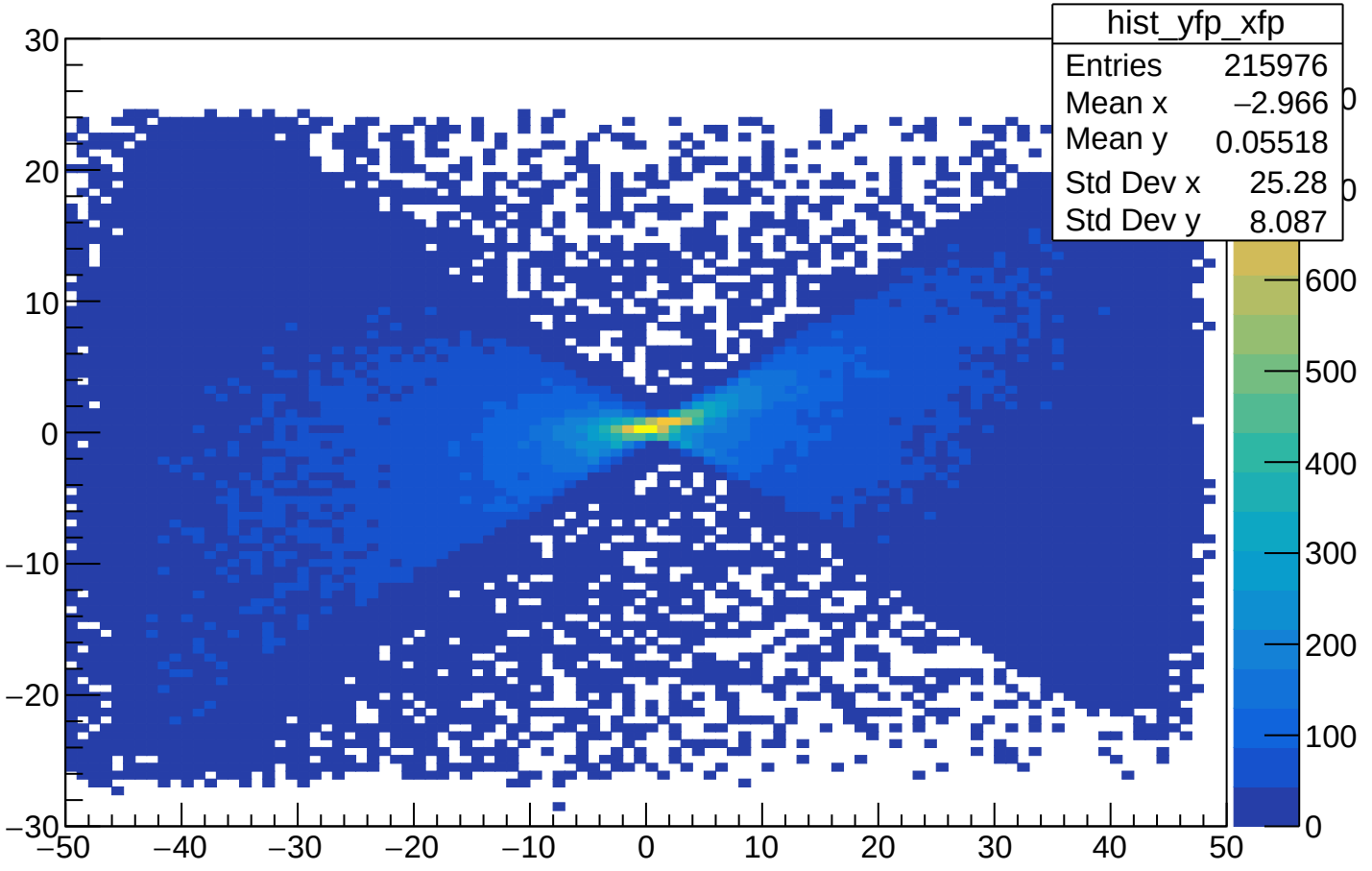
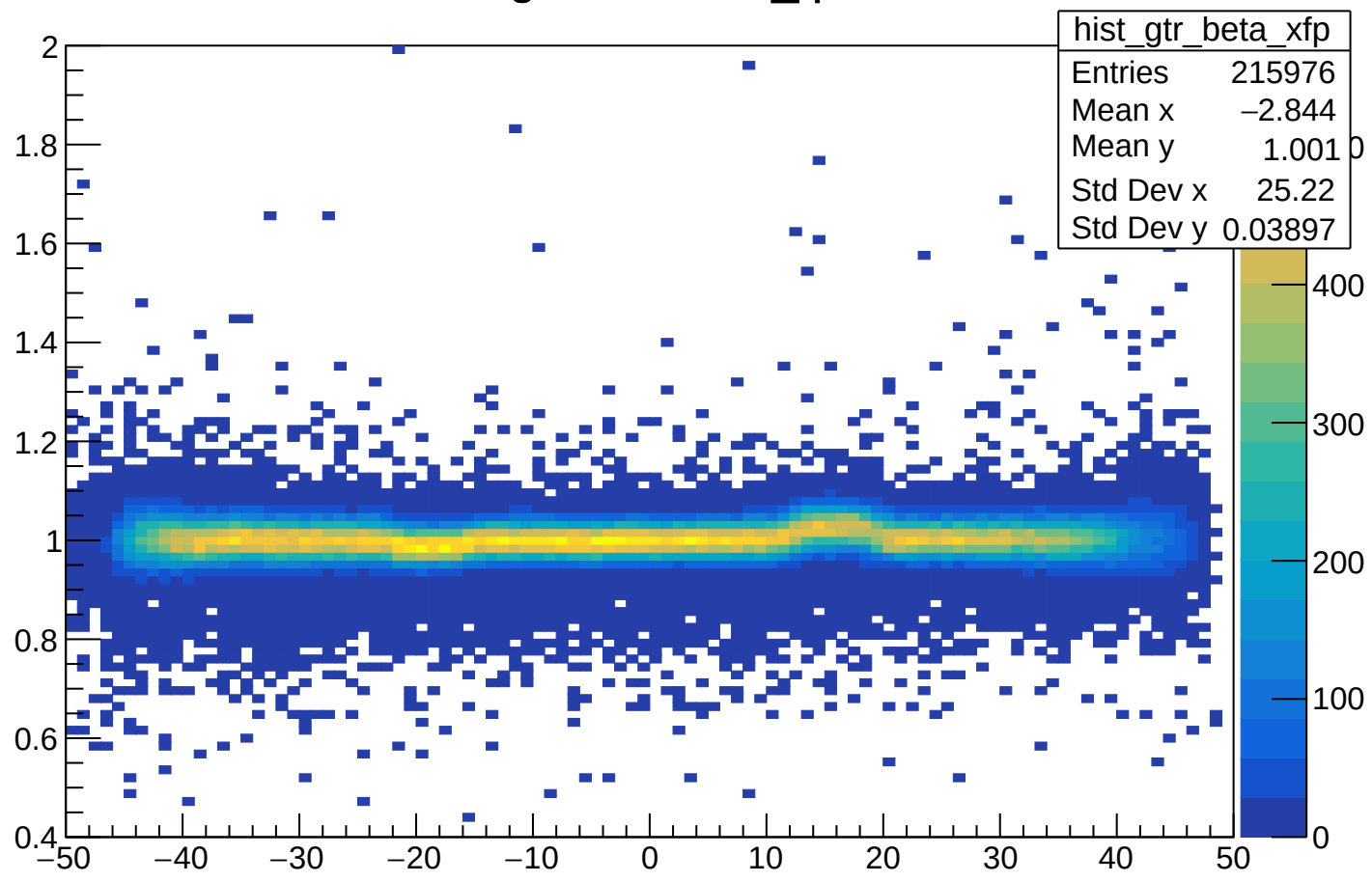

H.gtr.beta
Entries
Beta
Mean (no cuts) = 1.0024 ± 0.0001
Sigma (no cuts) = 0.0297 ± 0.0001
Mean (PID) = 1.0034 ± 0.0001
Sigma (PID) = 0.0288 ± 0.0001
Mean (PID & delta) = 1.0034 ± 0.0001
Sigma (PID & delta) = 0.0274 ± 0.0001
H.gtr.beta without cuts
Fit: H.gtr.beta without cuts
H.gtr.beta with PID cuts
Fit: H.gtr.beta with PID cuts
H.gtr.beta with PID and delta cuts
Fit: H.gtr.beta with PID and delta cuts
10^4
10^3
10^2
10
1
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2

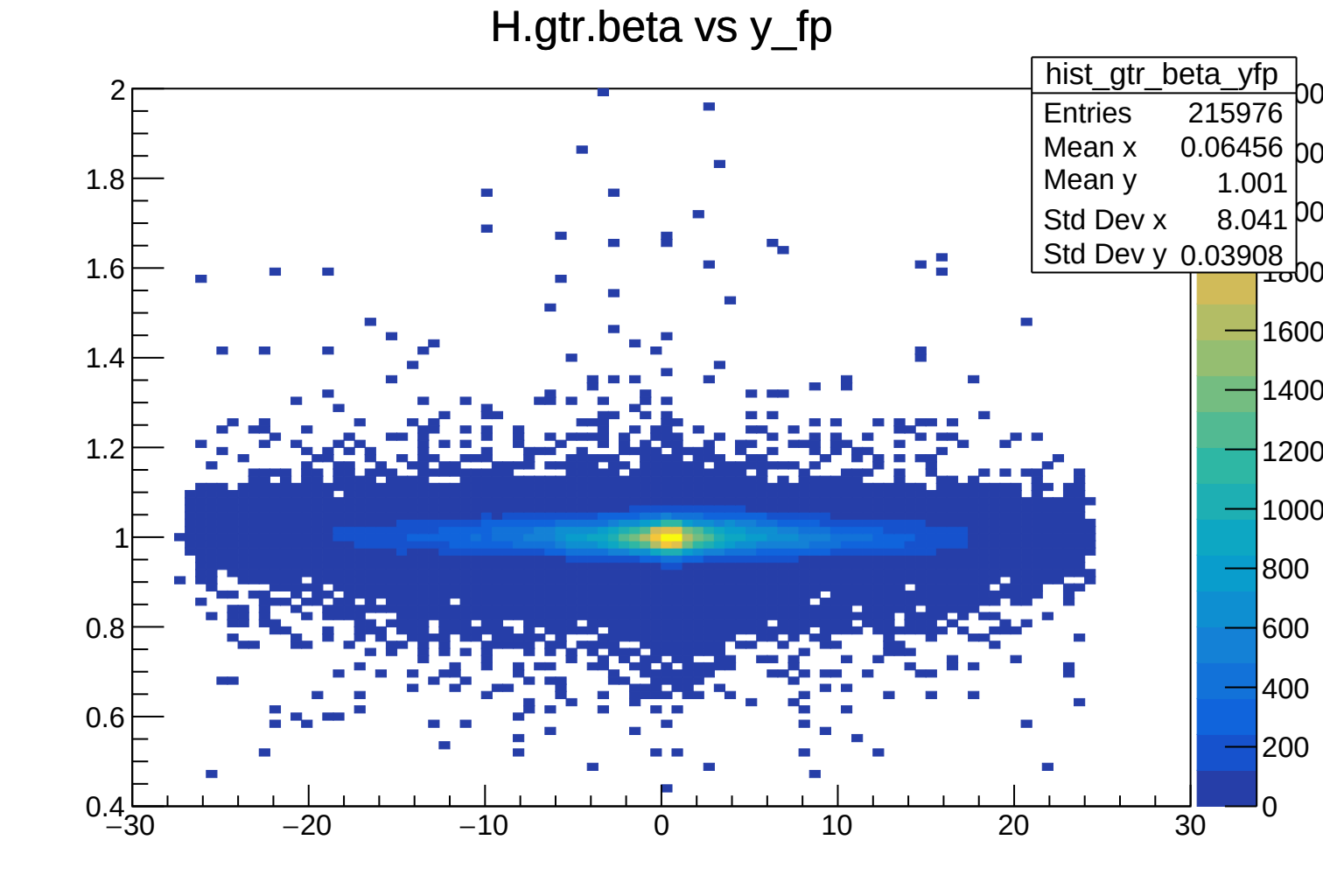

etottracknorm
hist_etottracknorm
Entries 215976
Mean 0.6334
Std Dev 0.3677
x = 0.7
10^5
10^4
10^3
10^2
10
1
0
1
2
3
4
5
6
7
8

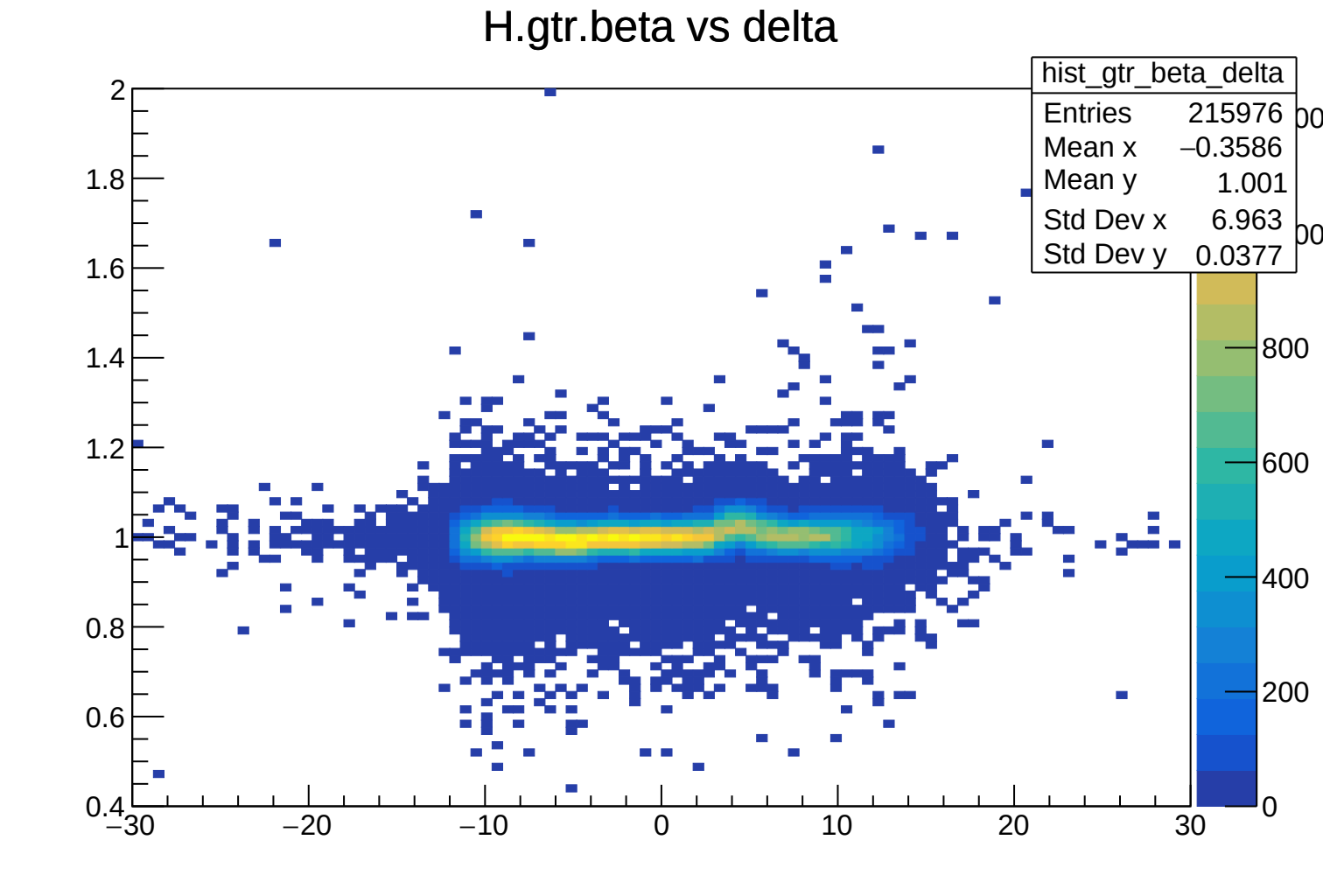

npeSum
hist_npeSum
Entries 215976
Mean 7.646
Std Dev 5.963
x = 0.7
10^5
10^4
10^3
10^2
10
1
0
10
20
30
40
50
60
70

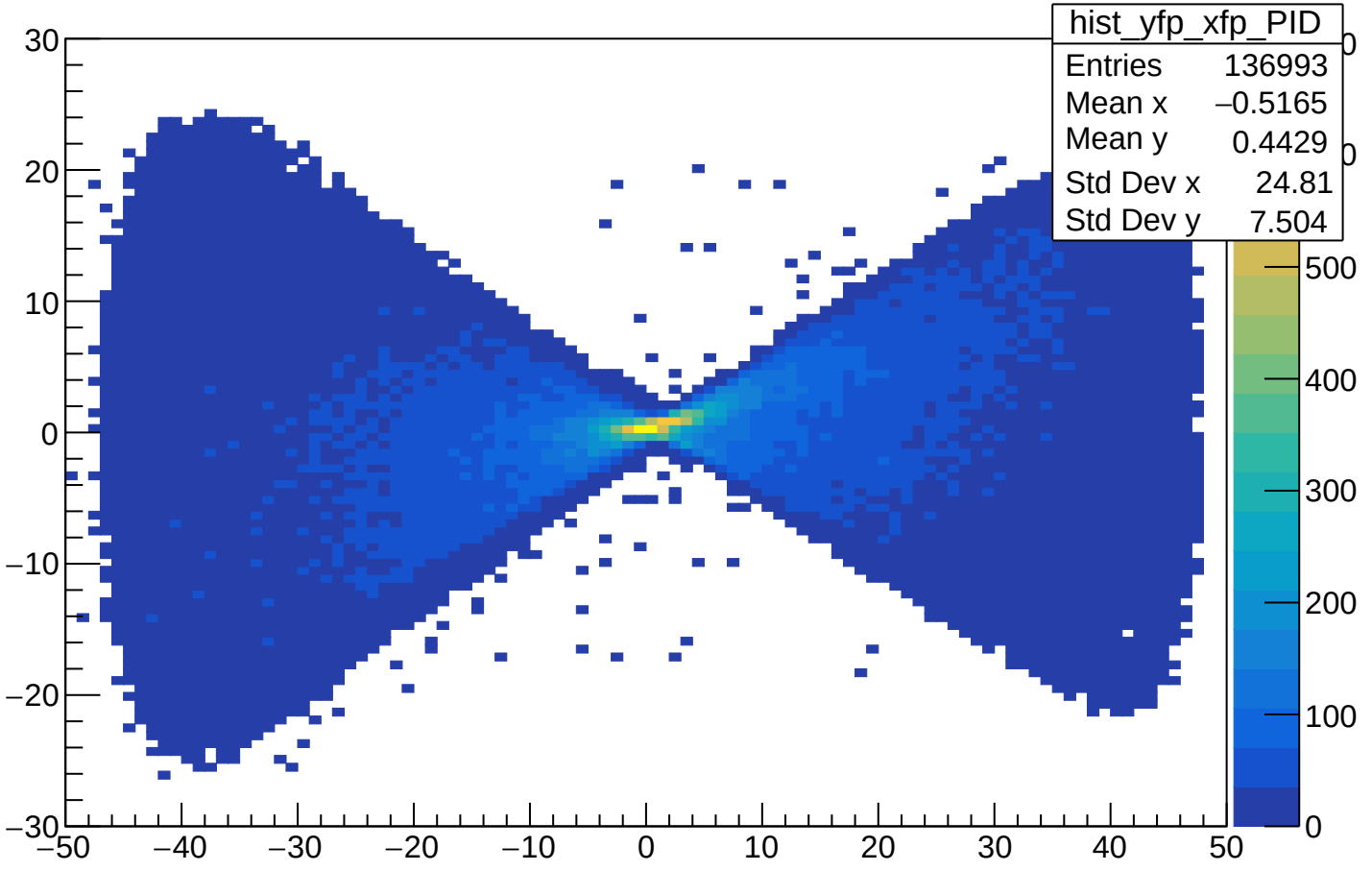

delta
hist_delta
Entries 215976
Mean –0.3701
Std Dev 6.972
x = -8
x = 8
10^4
10^3
10^2
10
1
−30
−20
−10
0
10
20
30

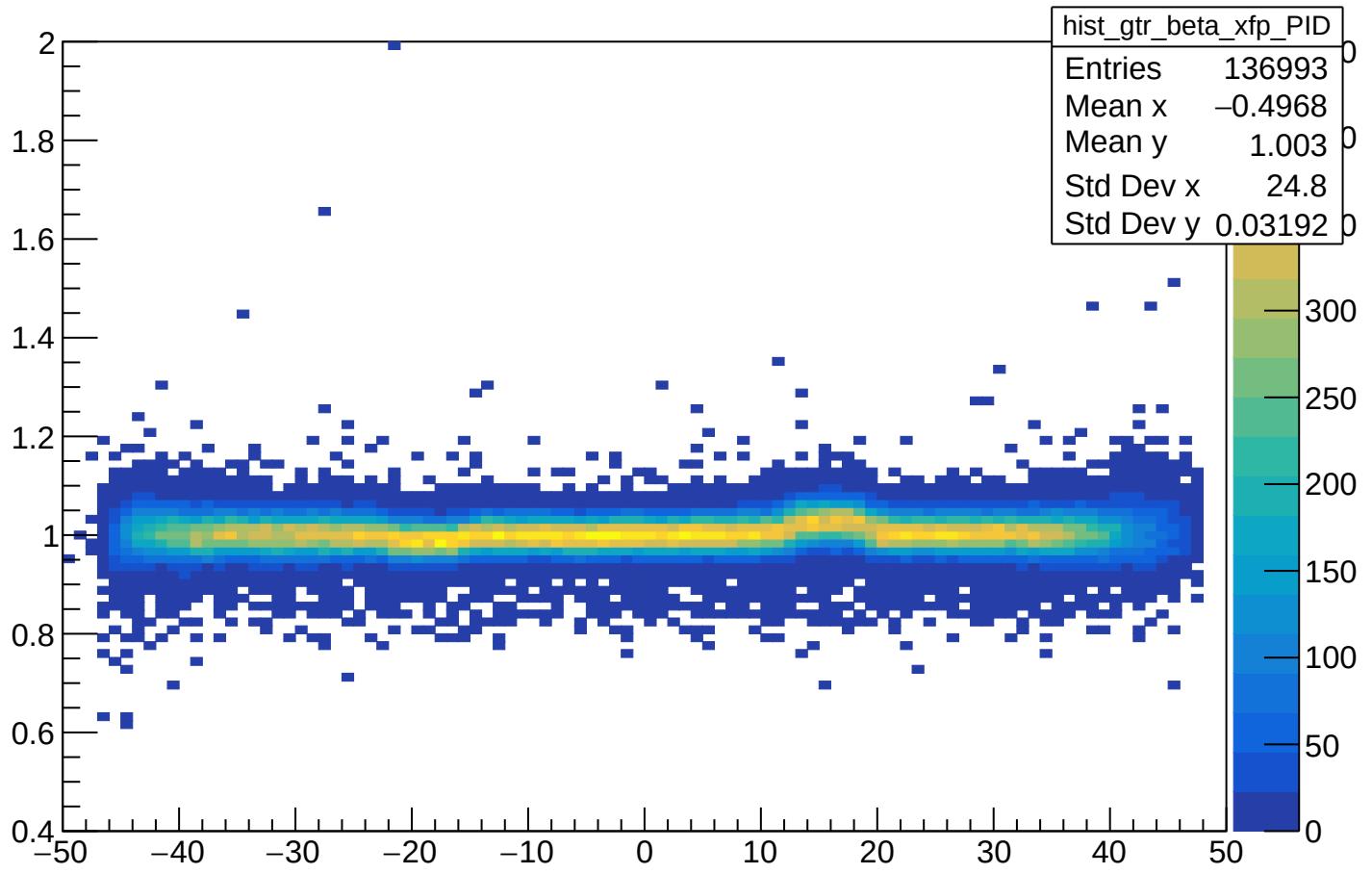

focal plane
hist_yfp_xfp
Entries 215976
Mean x −2.966
Mean y 0.05518
Std Dev x 25.28
Std Dev y 8.087
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
600
500
400
300
200
100
0

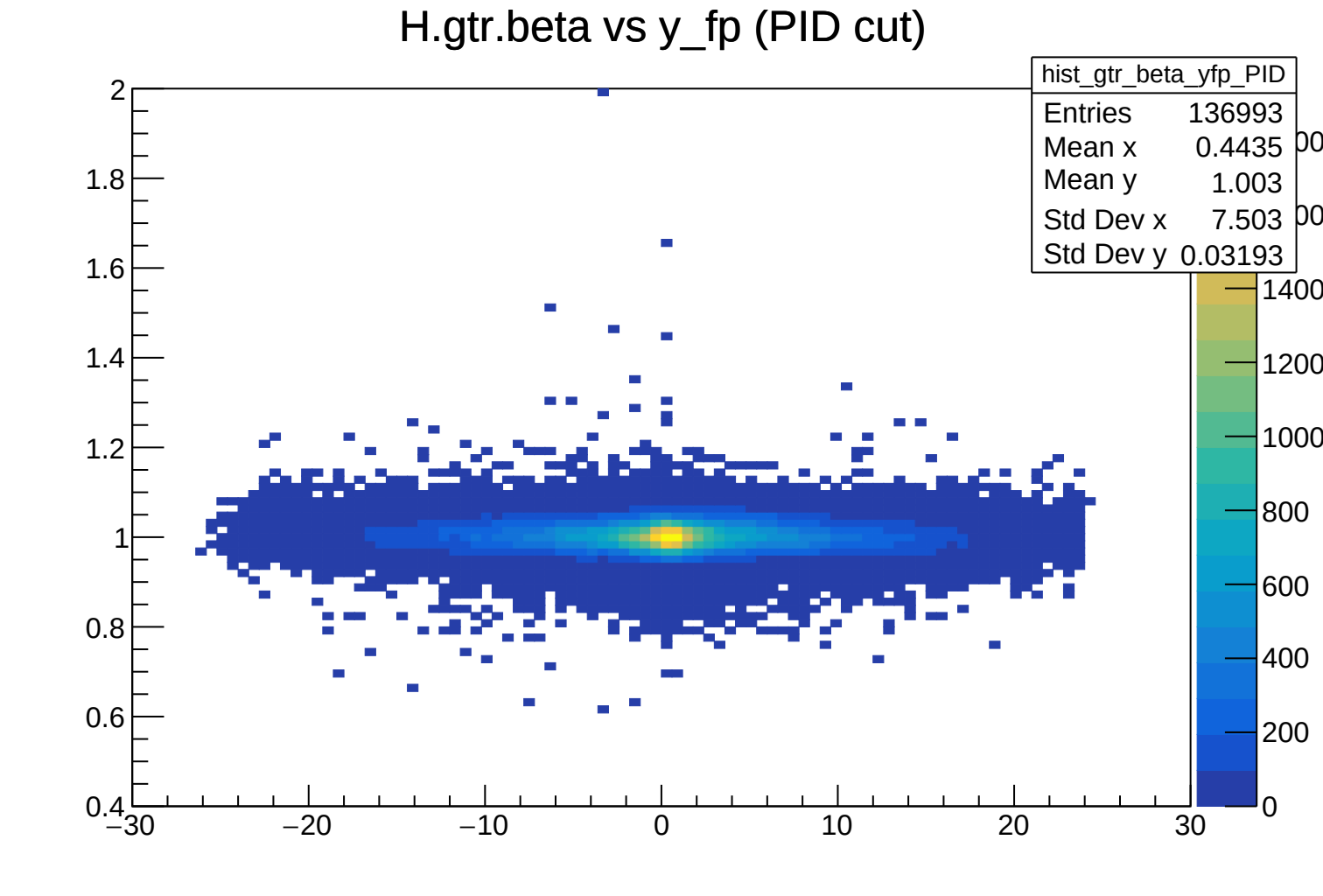

H.gtr.beta vs x_fp
hist_gtr_beta_xfp
Entries 215976
Mean x −2.844
Mean y 1.001
Std Dev x 25.22
Std Dev y 0.03897
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−50
−40
−30
−20
−10
0
10
20
30
40
50
400
300
200
100
0

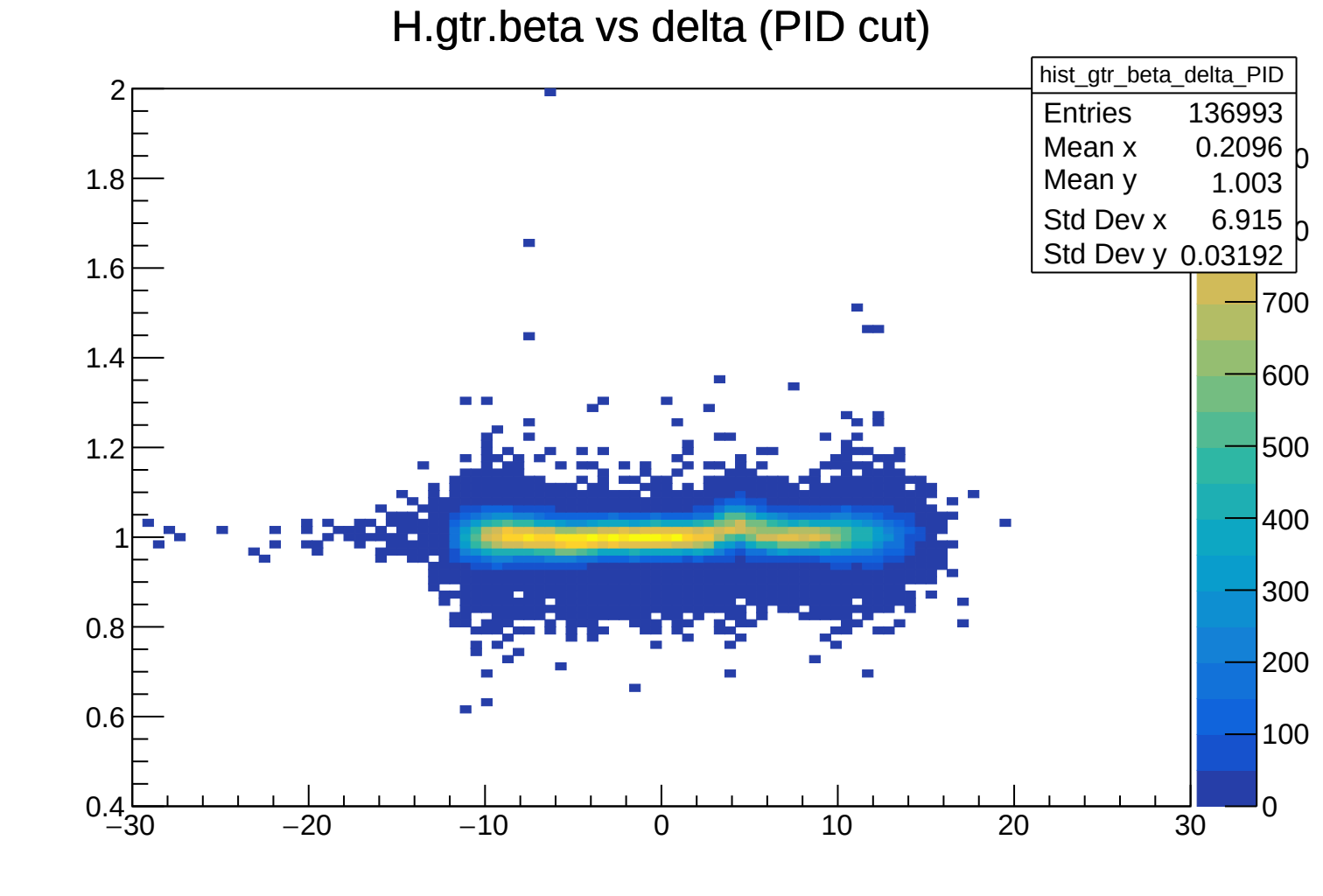

H.gtr.beta vs y_fp
hist_gtr_beta_yfp
Entries 215976
Mean x 0.06456
Mean y 1.001
Std Dev x 8.041
Std Dev y 0.03908
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
1600
1400
1200
1000
800
600
400
200
0

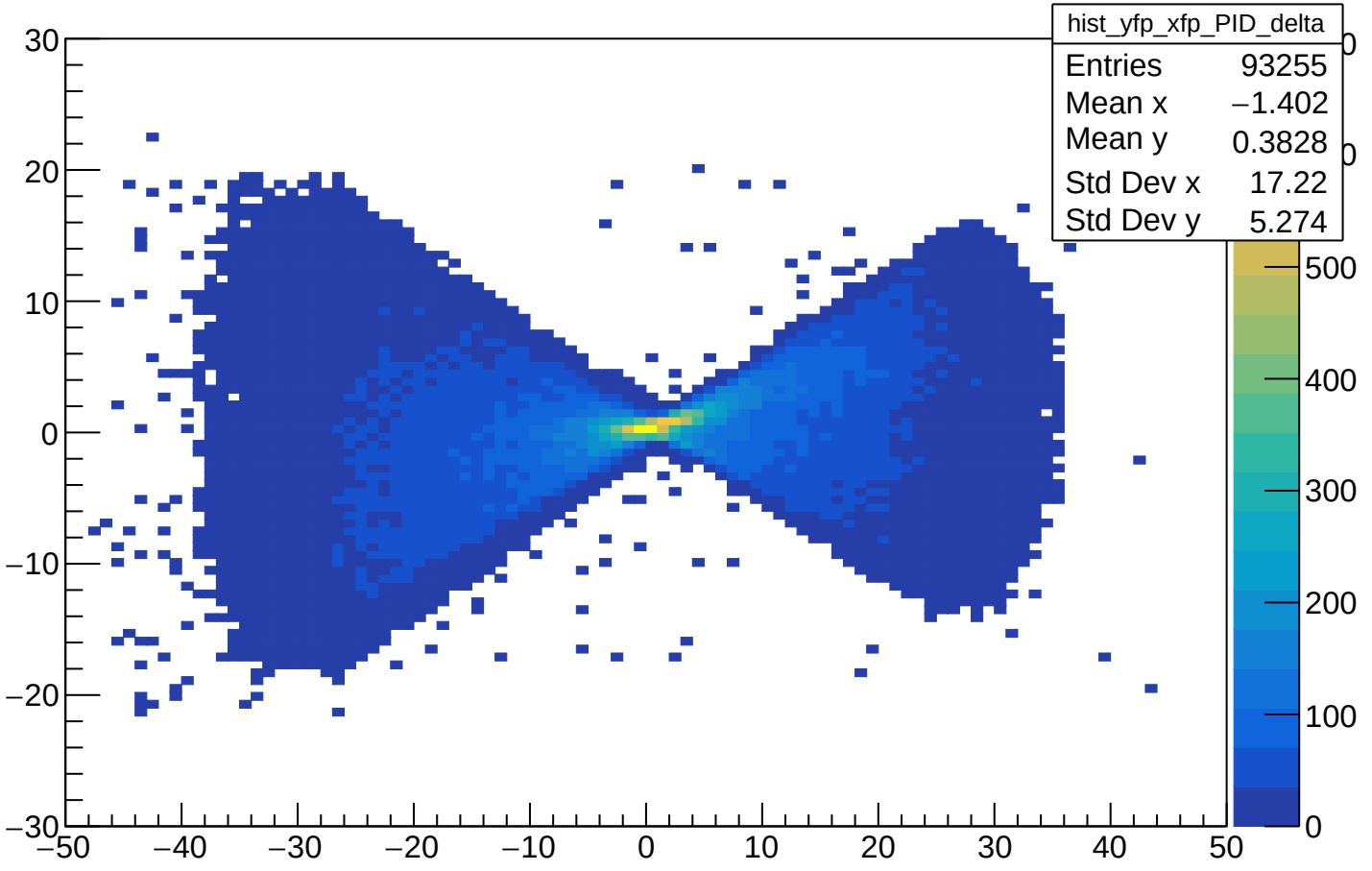

H.gtr.beta vs delta
hist_gtr_beta_delta
Entries 215976
Mean x −0.3586
Mean y 1.001
Std Dev x 6.963
Std Dev y 0.0377
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
800
600
400
200
0

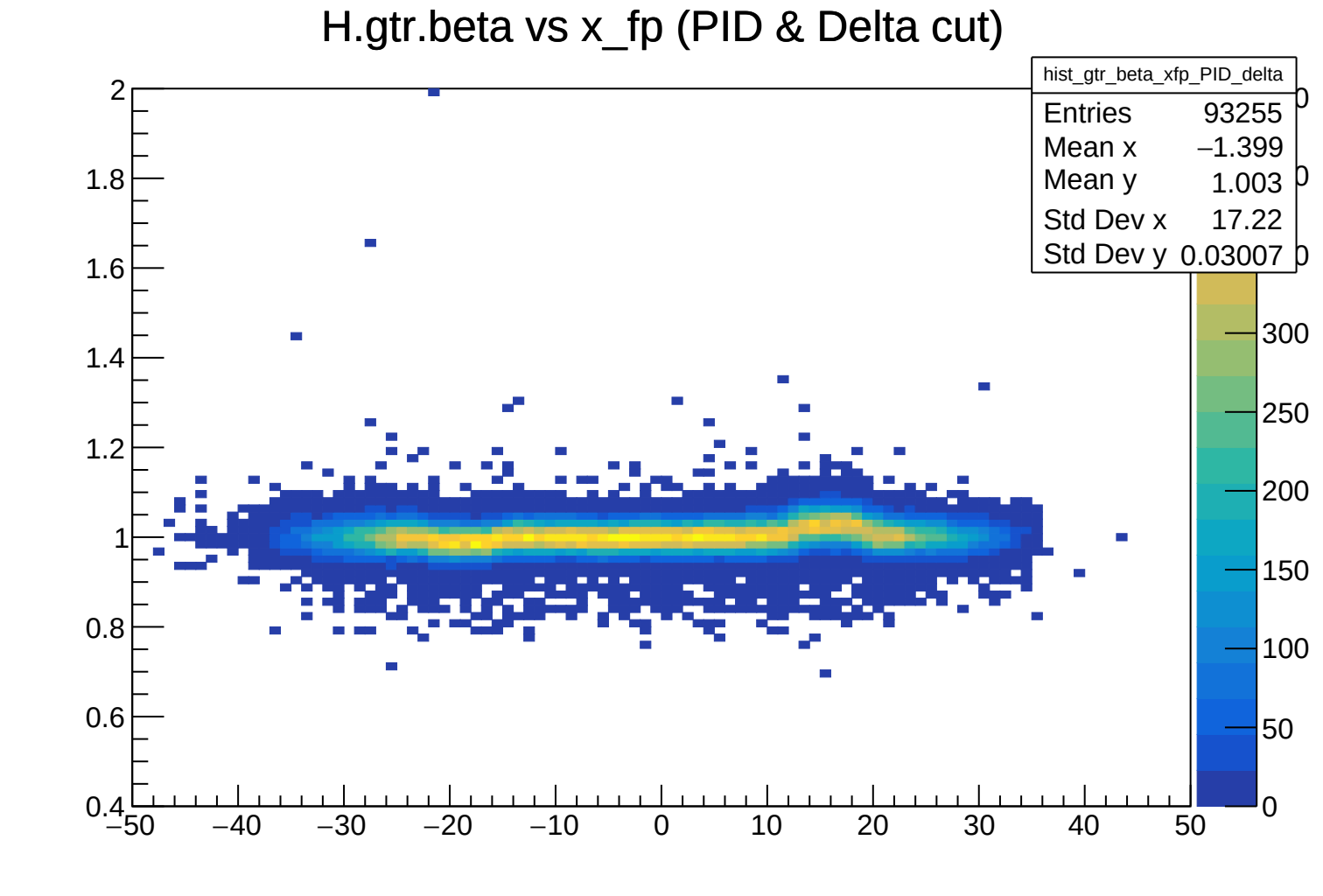

focal plane (PID cut)
hist_yfp_xfp_PID
Entries 136993
Mean x −0.5165
Mean y 0.4429
Std Dev x 24.81
Std Dev y 7.504
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
500
400
300
200
100
0

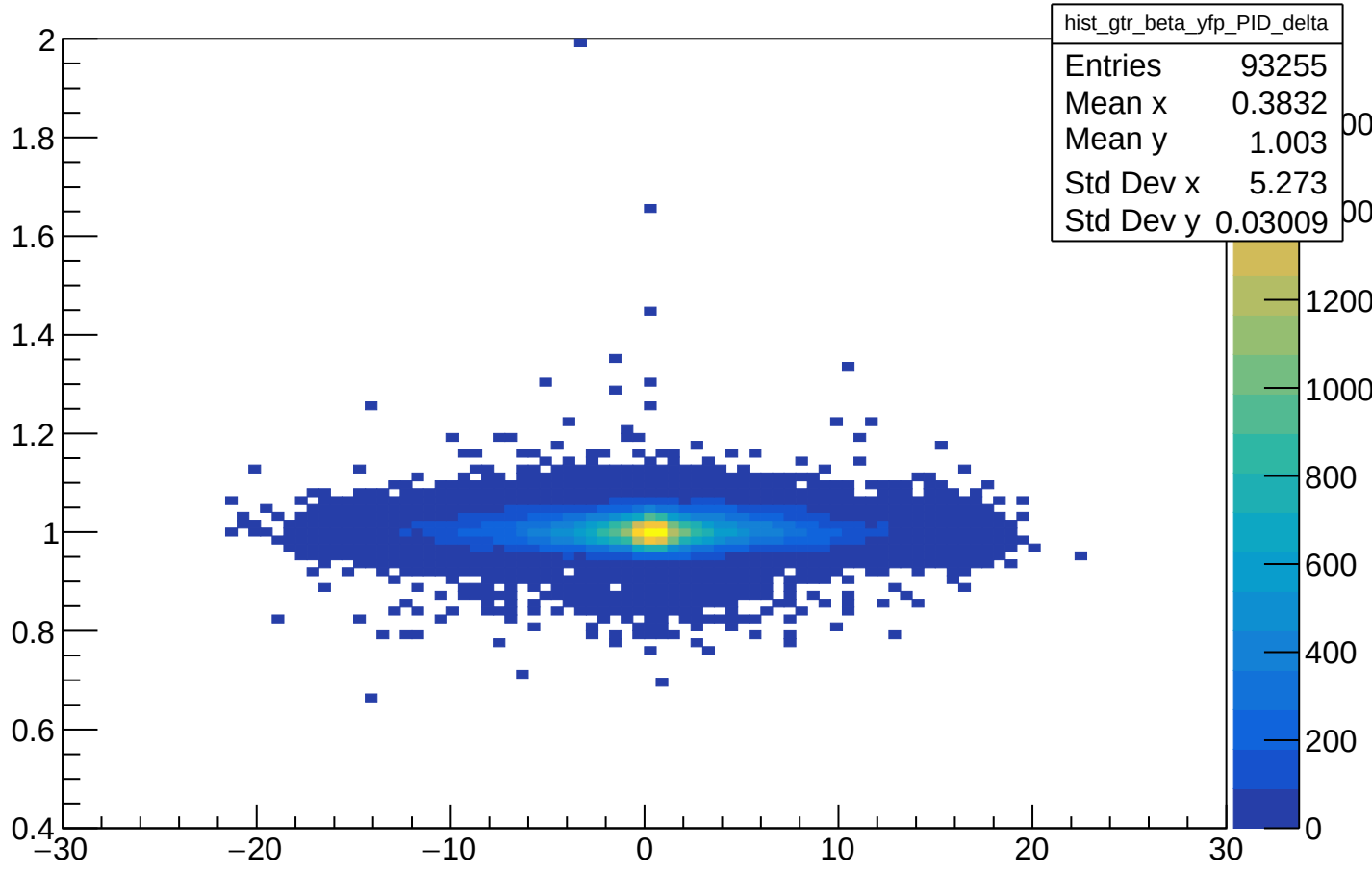

H.gtr.beta vs x_fp (PID cut)
hist_gtr_beta_xfp_PID
Entries 136993
Mean x −0.4968
Mean y 1.003
Std Dev x 24.8
Std Dev y 0.03192
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−50
−40
−30
−20
−10
0
10
20
30
40
50
300
250
200
150
100
50
0

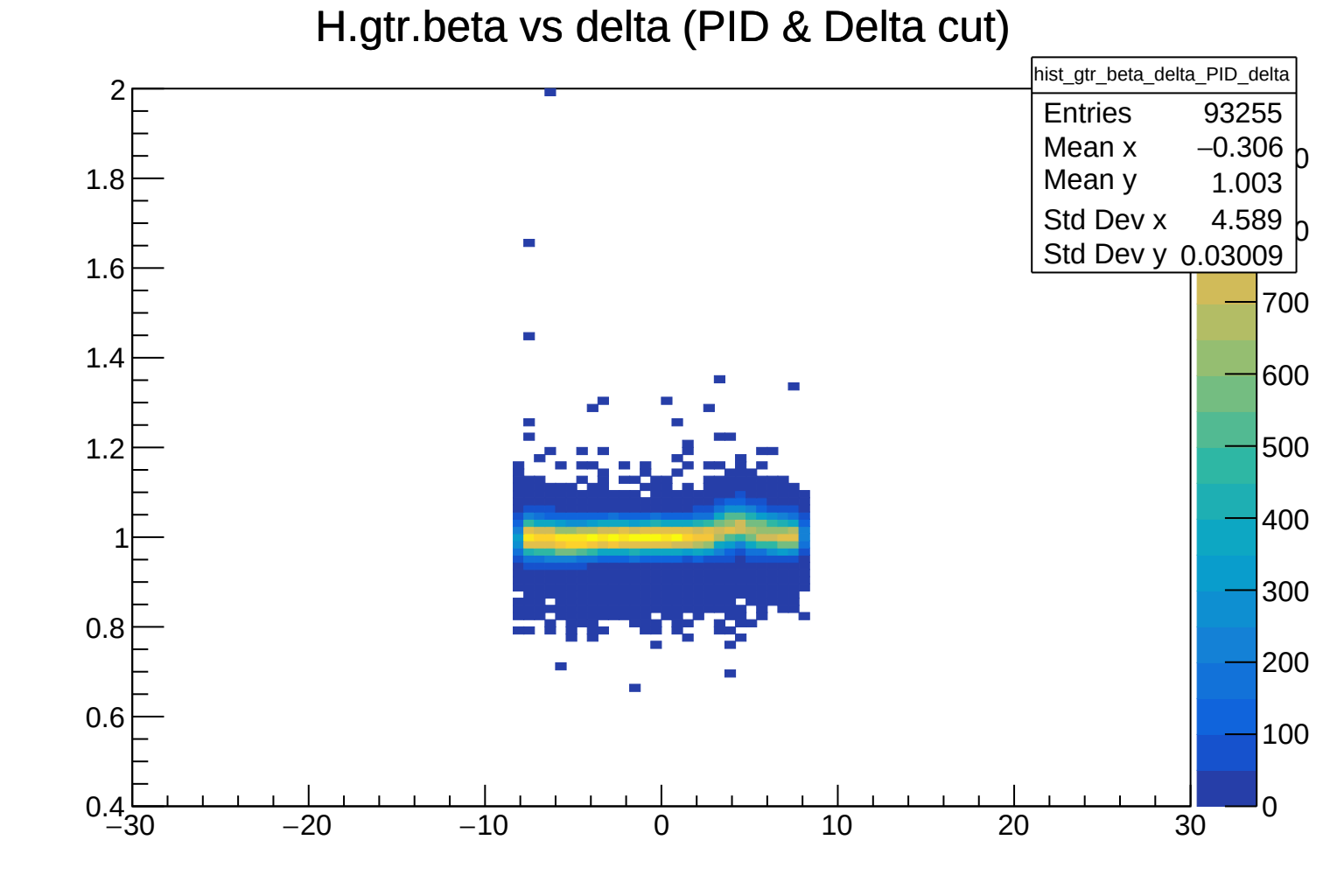

H.gtr.beta vs y_fp (PID cut)
hist_gtr_beta_yfp_PID
Entries 136993
Mean x 0.4435
Mean y 1.003
Std Dev x 7.503
Std Dev y 0.03193
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
1400
1200
1000
800
600
400
200
0


H.gtr.beta vs delta (PID cut)
hist_gtr_beta_delta_PID
Entries 136993
Mean x 0.2096
Mean y 1.003
Std Dev x 6.915
Std Dev y 0.03192
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
700
600
500
400
300
200
100
0


focal plane (PID & Delta cut)
hist_yfp_xfp_PID_delta
Entries 93255
Mean x −1.402
Mean y 0.3828
Std Dev x 17.22
Std Dev y 5.274
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
500
400
300
200
100
0


H.gtr.beta vs x_fp (PID & Delta cut)
hist_gtr_beta_xfp_PID_delta
Entries 93255
Mean x −1.399
Mean y 1.003
Std Dev x 17.22
Std Dev y 0.03007
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
300
250
200
150
100
50
0


H.gtr.beta vs y_fp (PID & Delta cut)
hist_gtr_beta_yfp_PID_delta
Entries 93255
Mean x 0.3832
Mean y 1.003
Std Dev x 5.273
Std Dev y 0.03009
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
800
600
400
200
0


H.gtr.beta vs delta (PID & Delta cut)
hist_gtr_beta_delta_PID_delta
Entries 93255
Mean x −0.306
Mean y 1.003
Std Dev x 4.589
Std Dev y 0.03009
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
700
600
500
400
300
200
100
0