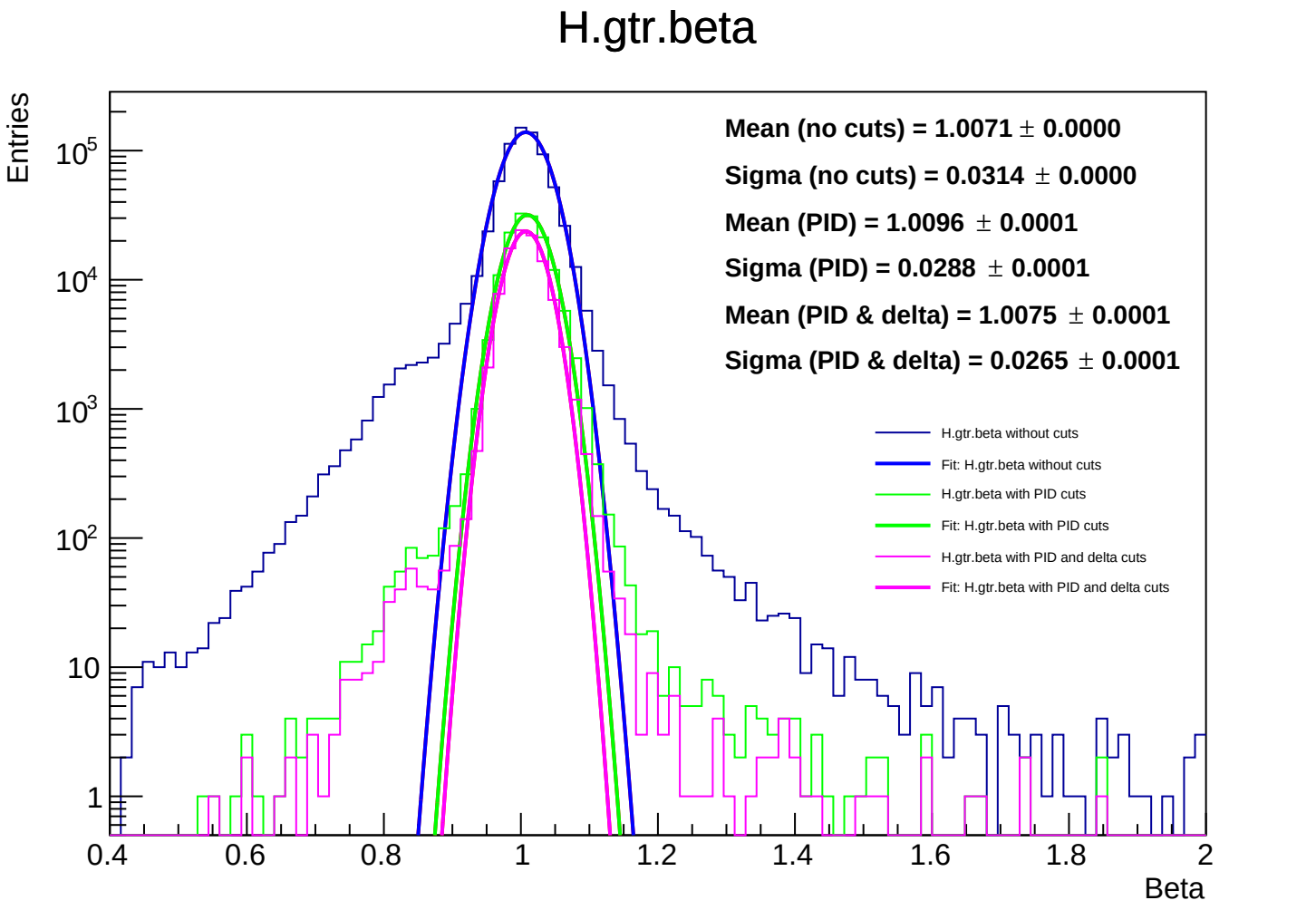
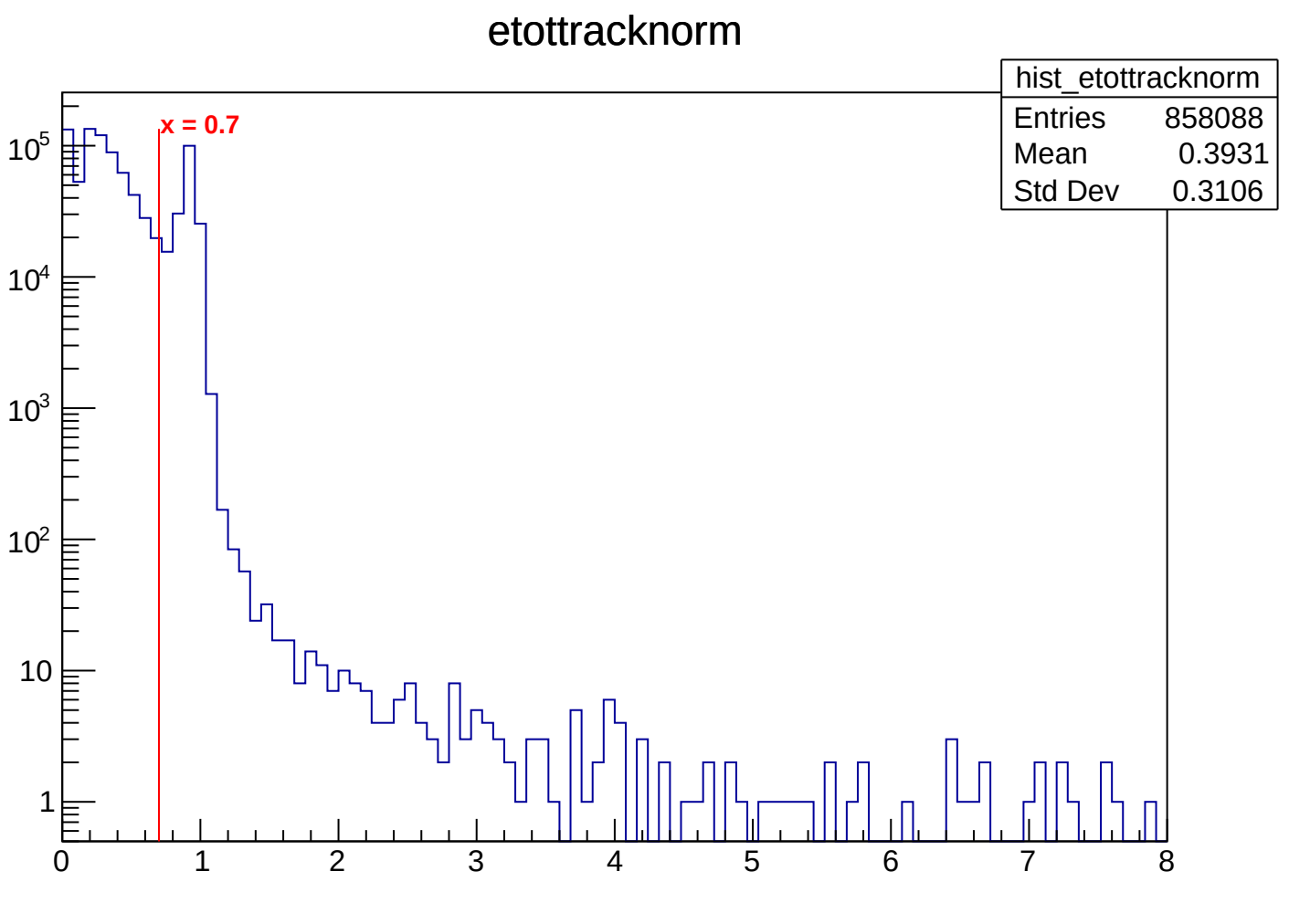
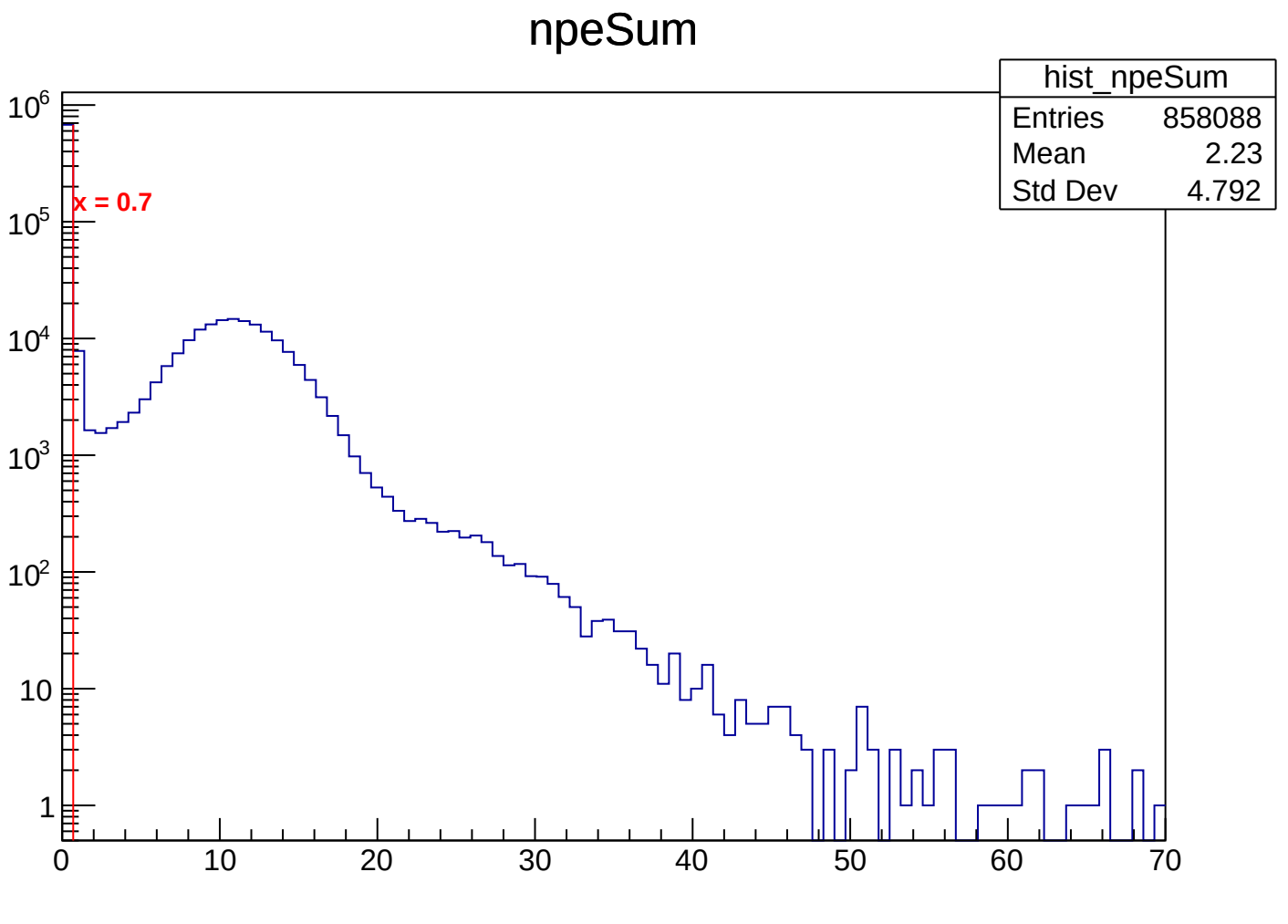
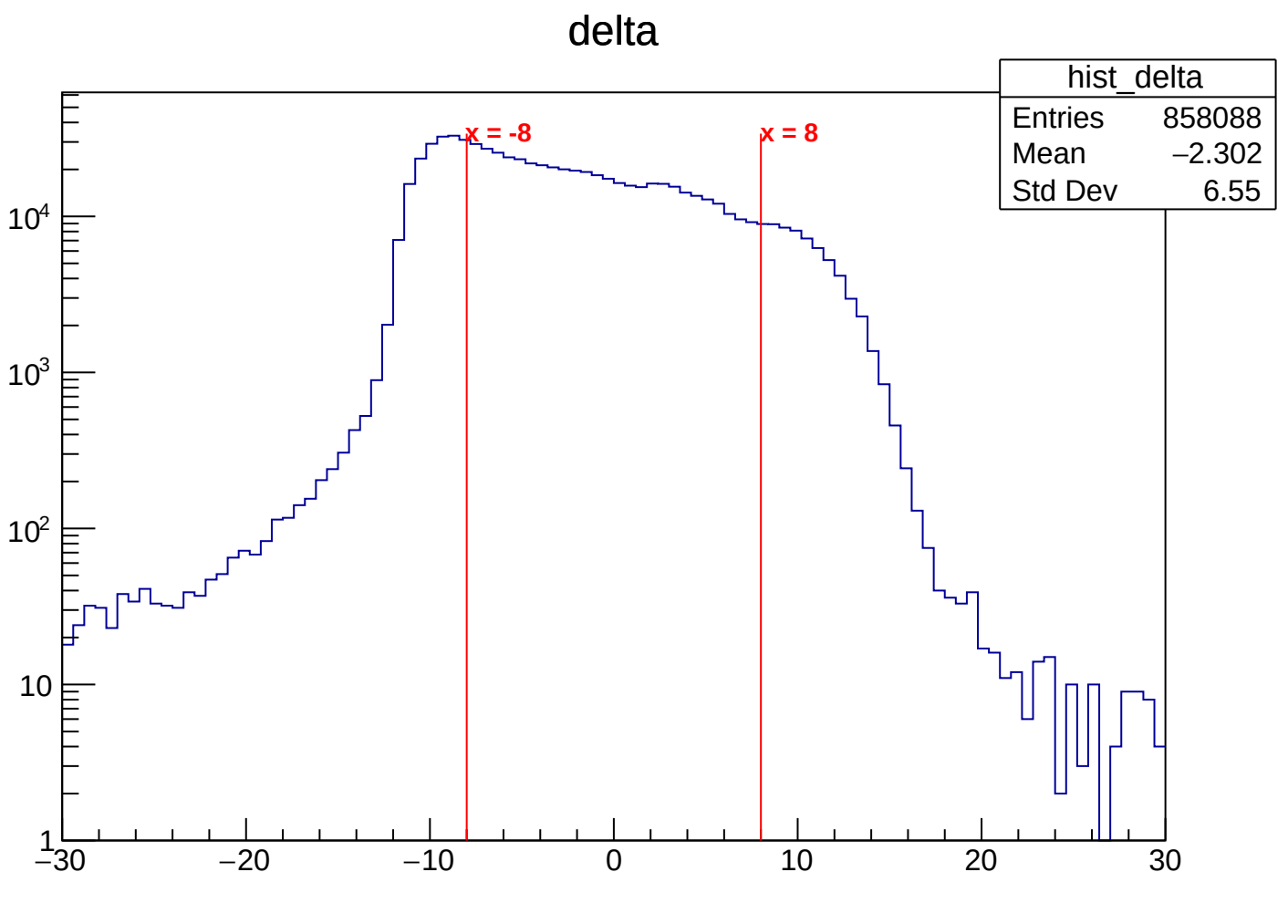
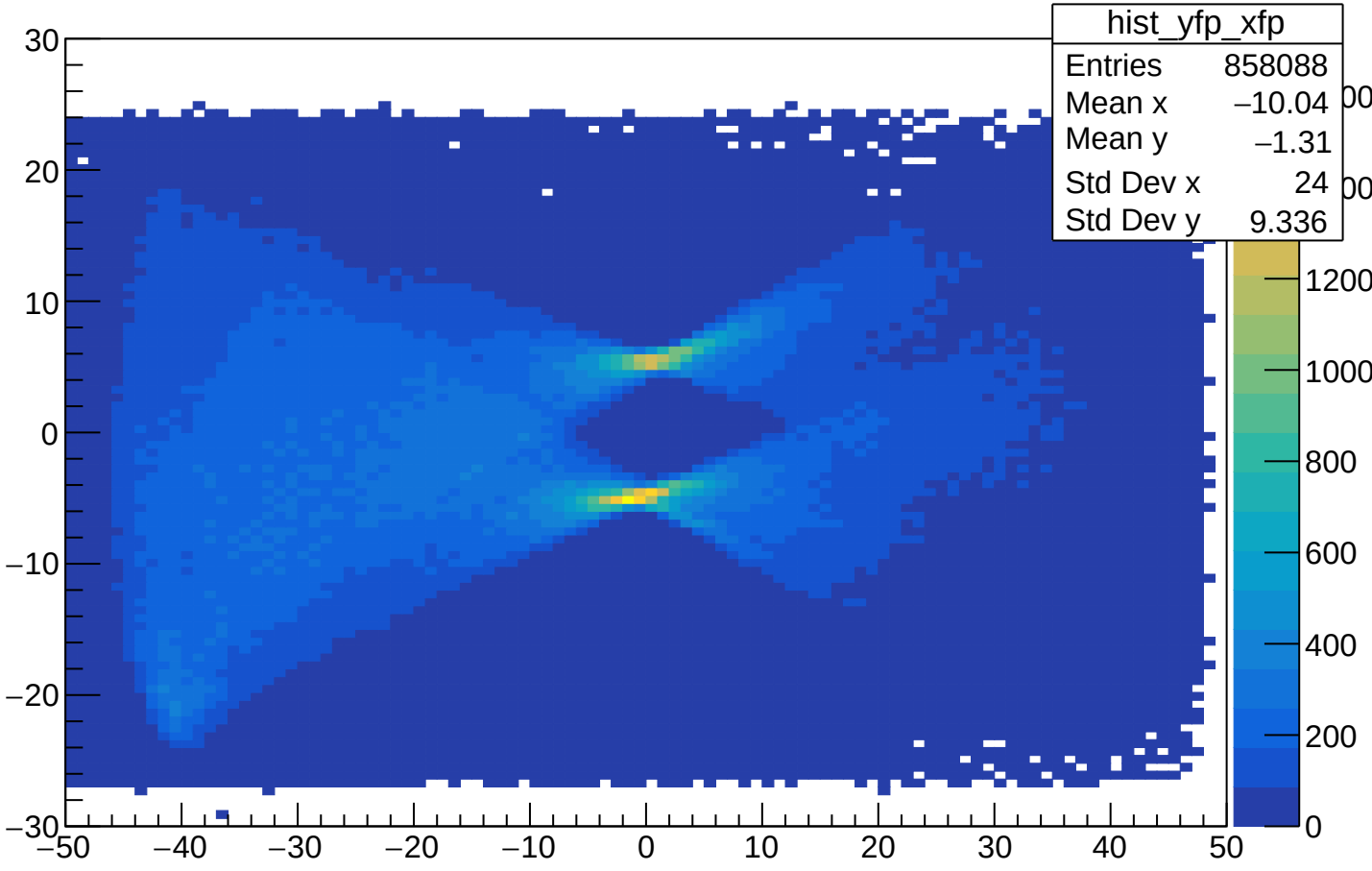
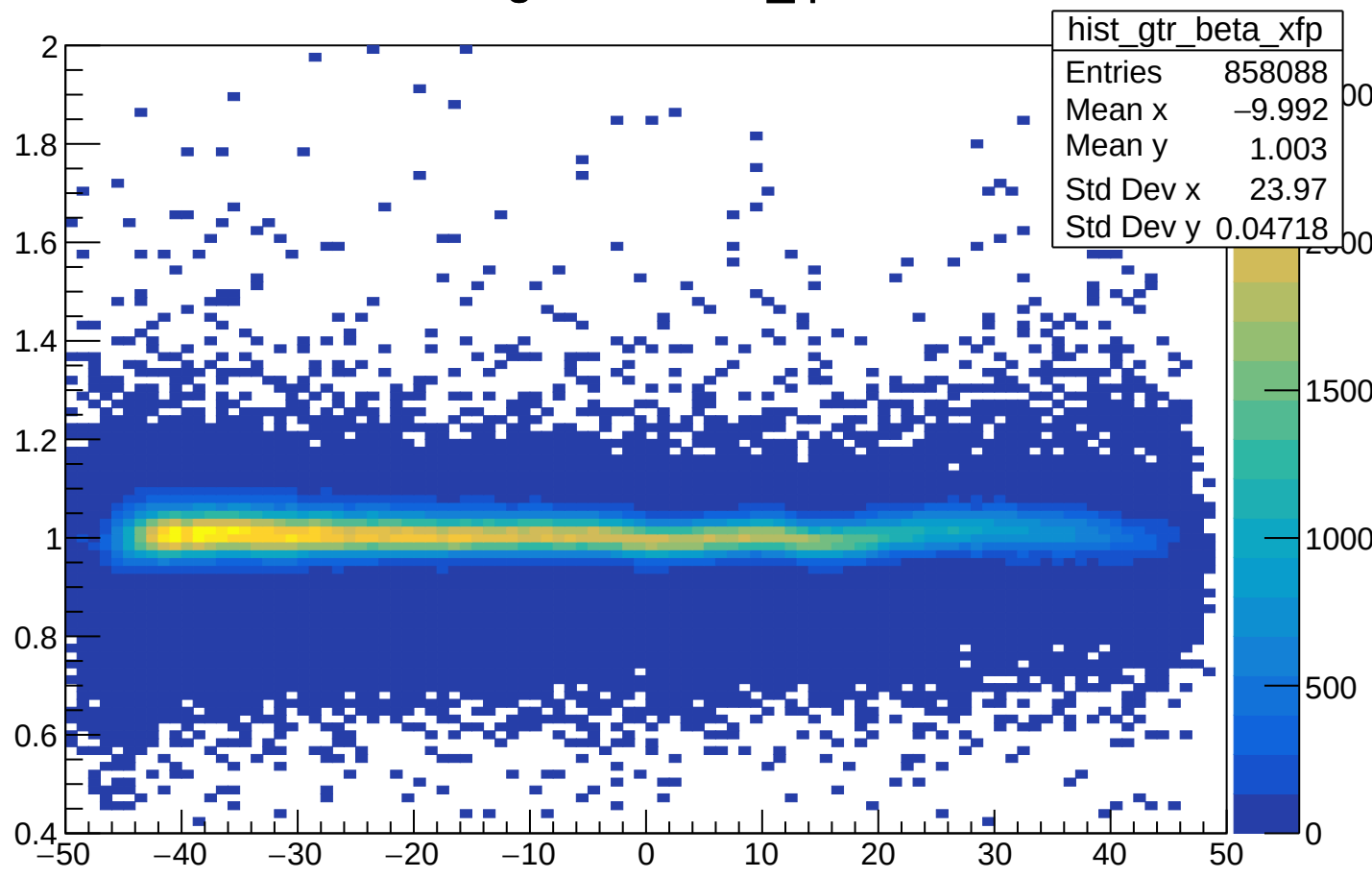

H.gtr.beta
Entries
Beta
Mean (no cuts) = 1.0071 ± 0.0000
Sigma (no cuts) = 0.0314 ± 0.0000
Mean (PID) = 1.0096 ± 0.0001
Sigma (PID) = 0.0288 ± 0.0001
Mean (PID & delta) = 1.0075 ± 0.0001
Sigma (PID & delta) = 0.0265 ± 0.0001
H.gtr.beta without cuts
Fit: H.gtr.beta without cuts
H.gtr.beta with PID cuts
Fit: H.gtr.beta with PID cuts
H.gtr.beta with PID and delta cuts
Fit: H.gtr.beta with PID and delta cuts

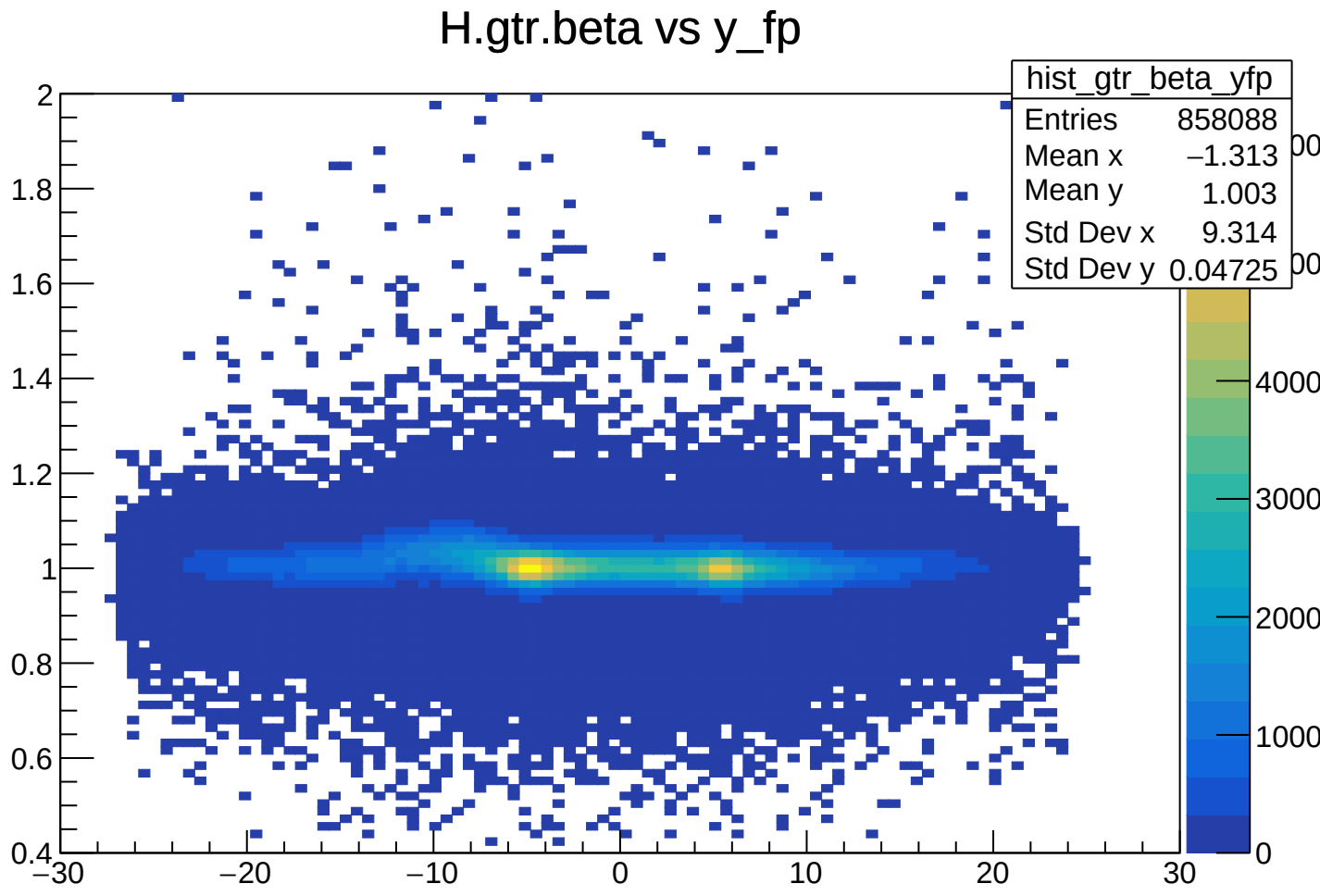

etottracknorm
hist_etottracknorm
Entries 858088
Mean 0.3931
Std Dev 0.3106
x = 0.7
10^5
10^4
10^3
10^2
10
1
0
1
2
3
4
5
6
7
8

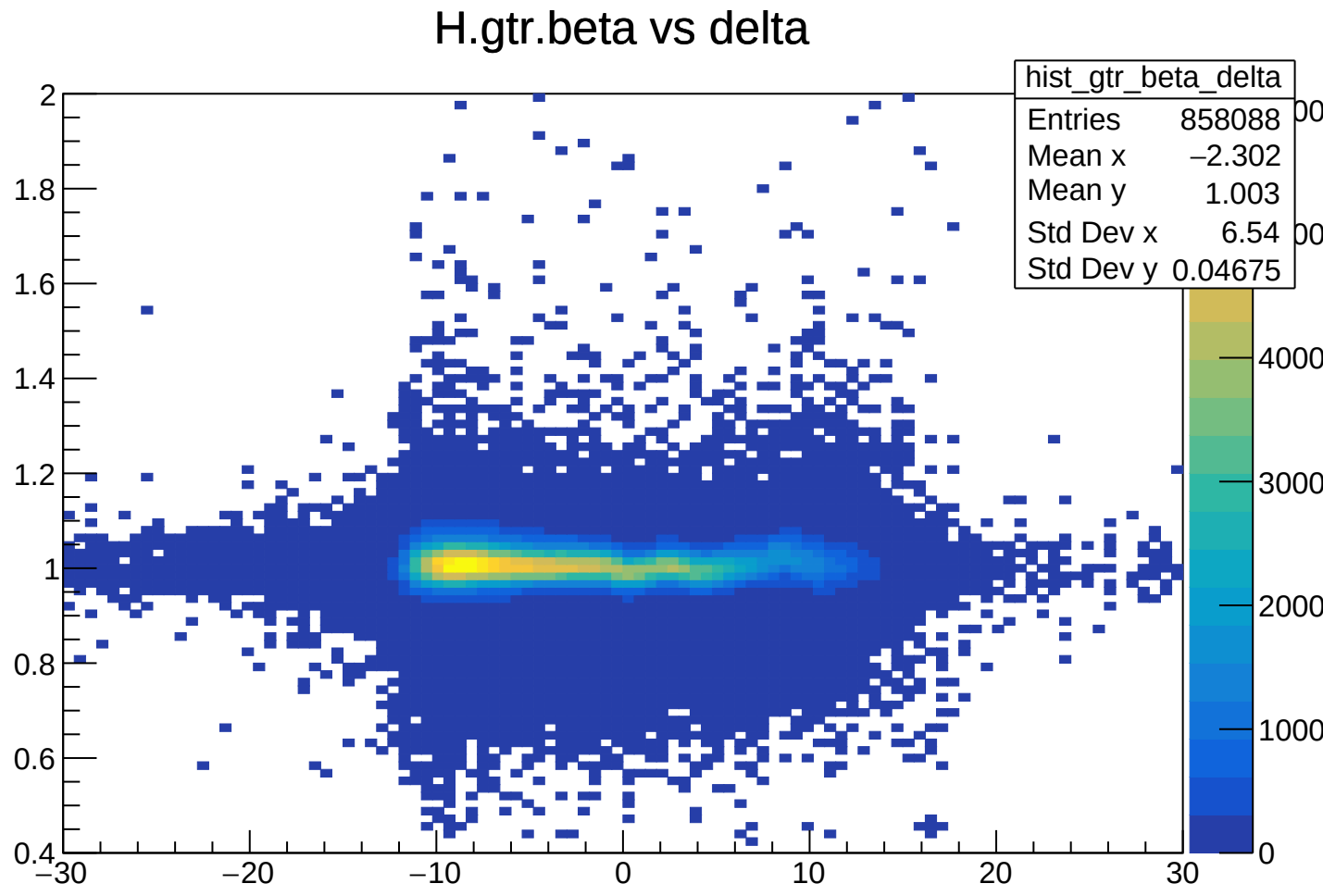

npeSum
hist_npeSum
Entries 858088
Mean 2.23
Std Dev 4.792
x = 0.7
10^6
10^5
10^4
10^3
10^2
10
1
0
10
20
30
40
50
60
70

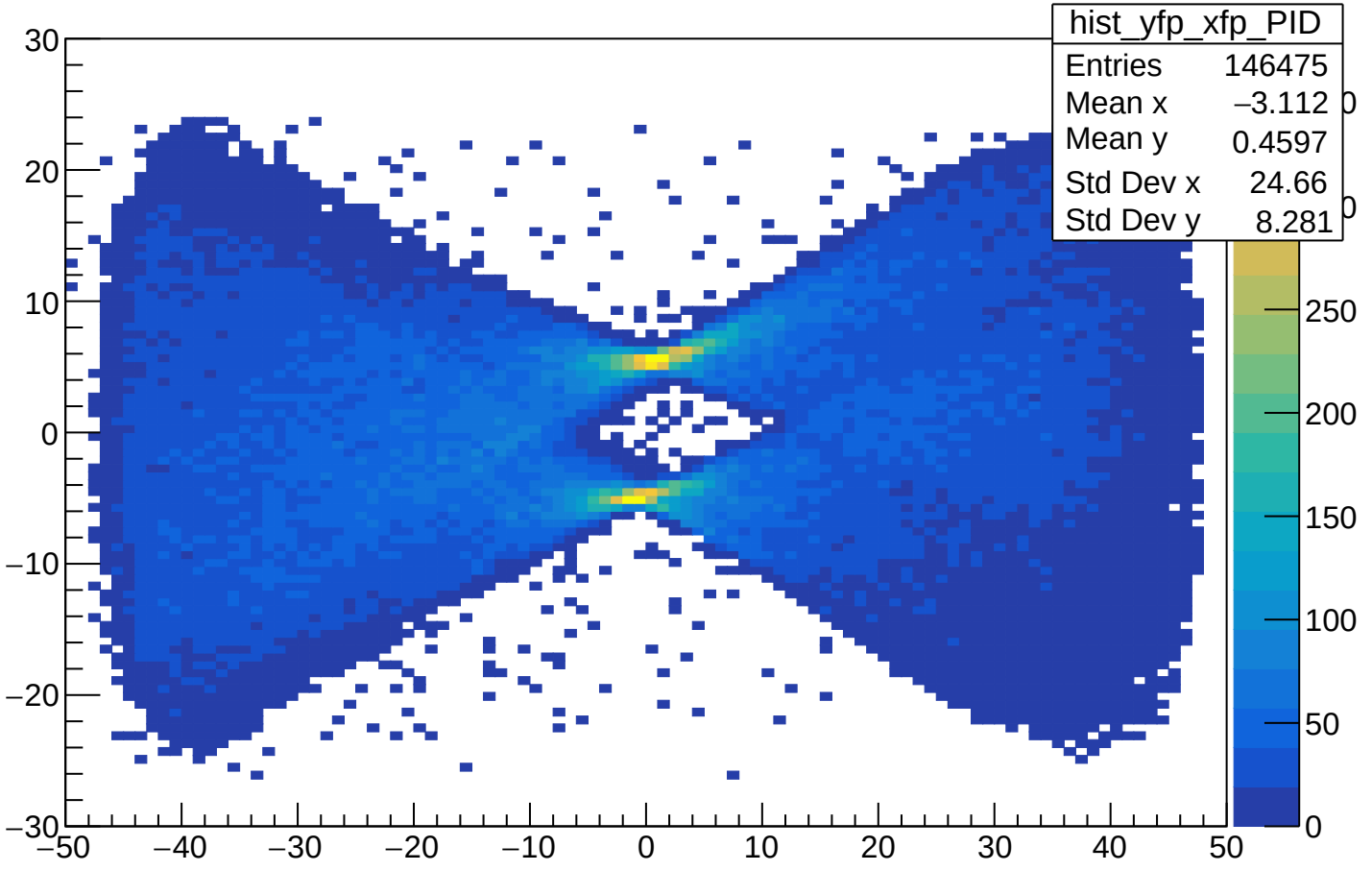

delta
hist_delta
Entries 858088
Mean −2.302
Std Dev 6.55
x = -8
x = 8
10^4
10^3
10^2
10
1
−30
−20
−10
0
10
20
30

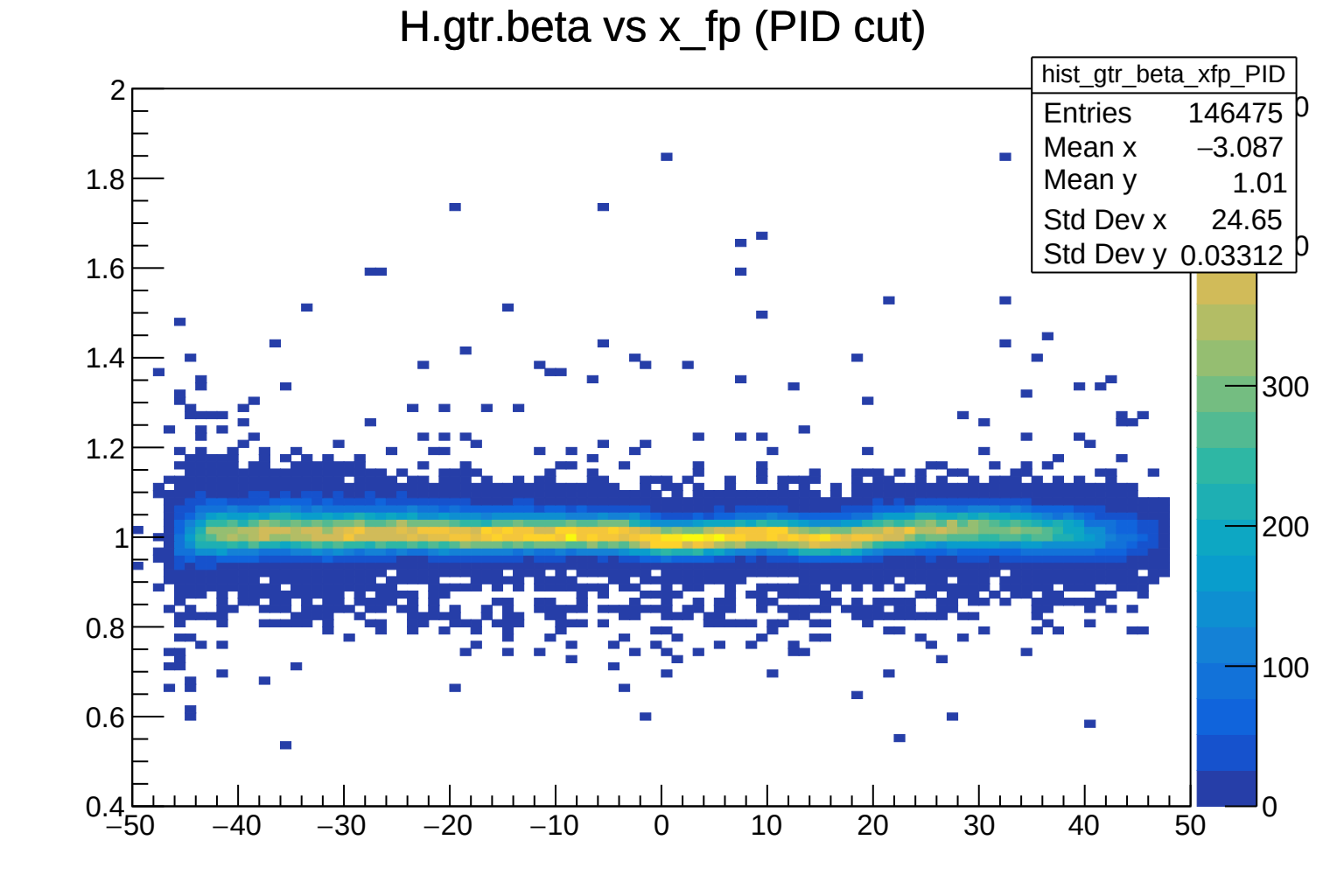

focal plane
hist_yfp_xfp
Entries 858088
Mean x −10.04
Mean y −1.31
Std Dev x 24
Std Dev y 9.336
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
1200
1000
800
600
400
200
0

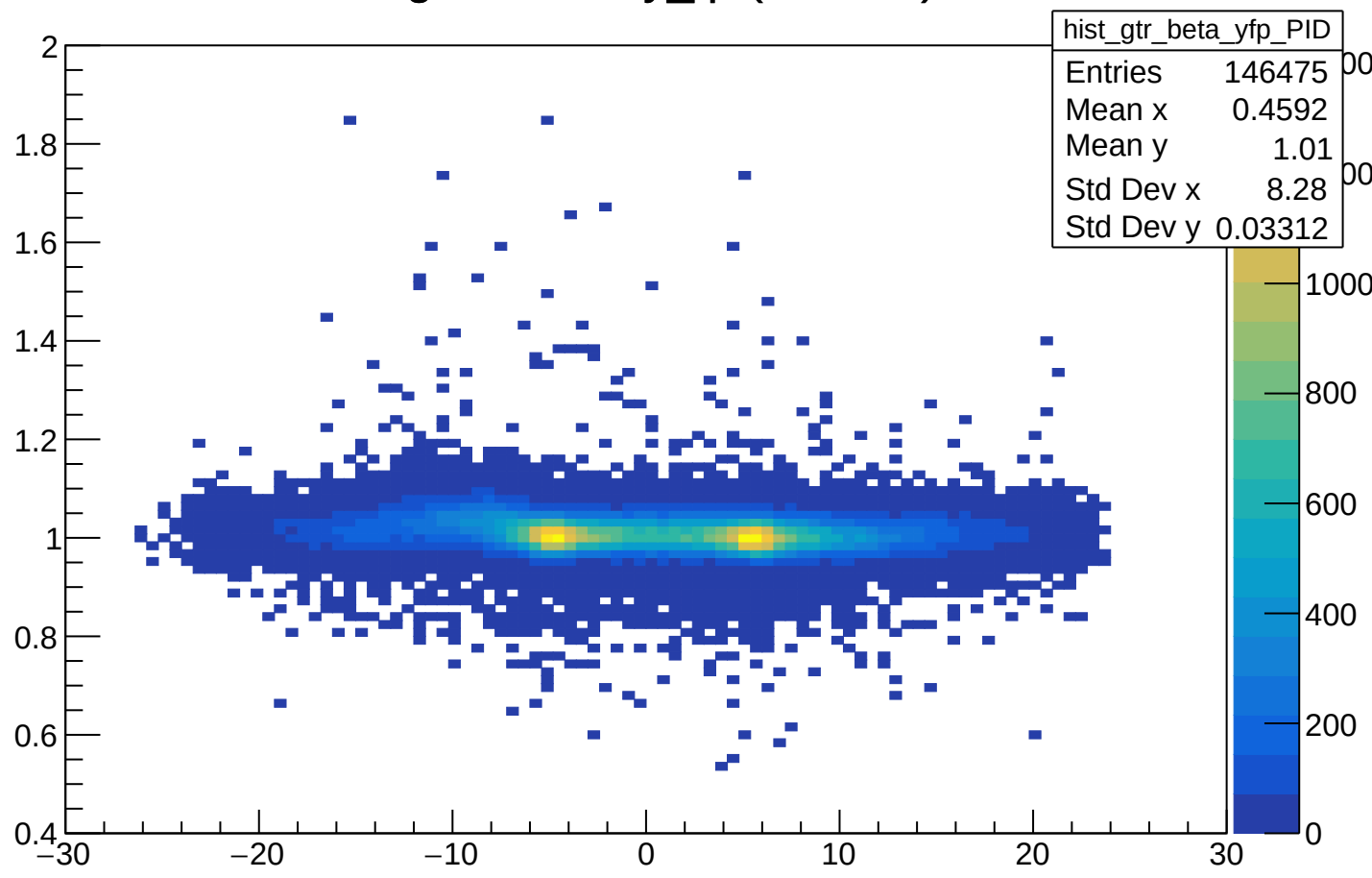

H.gtr.beta vs x_fp
hist_gtr_beta_xfp
Entries 858088
Mean x −9.992
Mean y 1.003
Std Dev x 23.97
Std Dev y 0.04718
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−50
−40
−30
−20
−10
0
10
20
30
40
50
1500
1000
500
0

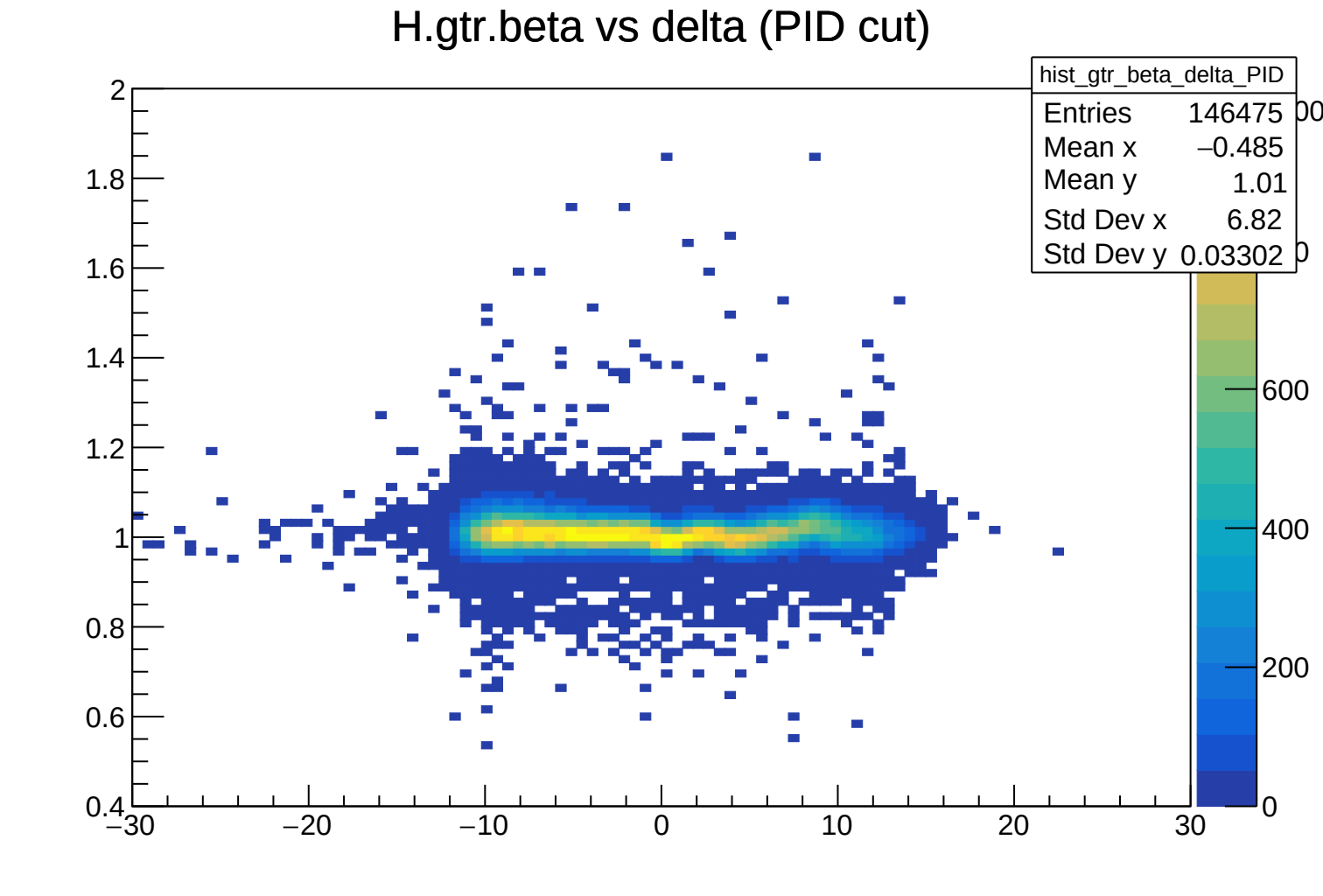

H.gtr.beta vs y_fp
hist_gtr_beta_yfp
Entries 858088
Mean x −1.313
Mean y 1.003
Std Dev x 9.314
Std Dev y 0.04725
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
4000
3000
2000
1000
0

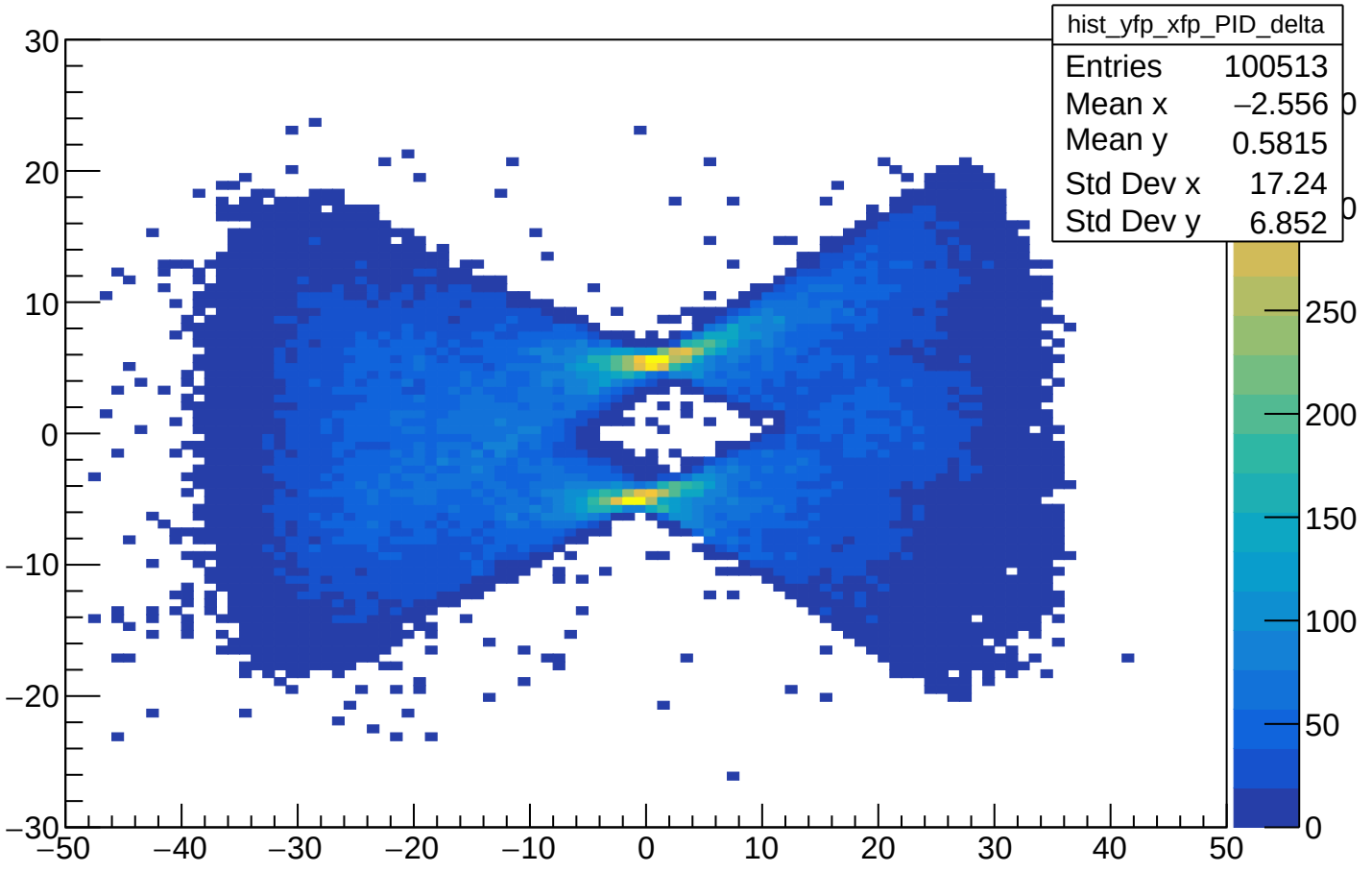

H.gtr.beta vs delta
hist_gtr_beta_delta
Entries 858088
Mean x −2.302
Mean y 1.003
Std Dev x 6.54
Std Dev y 0.04675
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
4000
3000
2000
1000
0

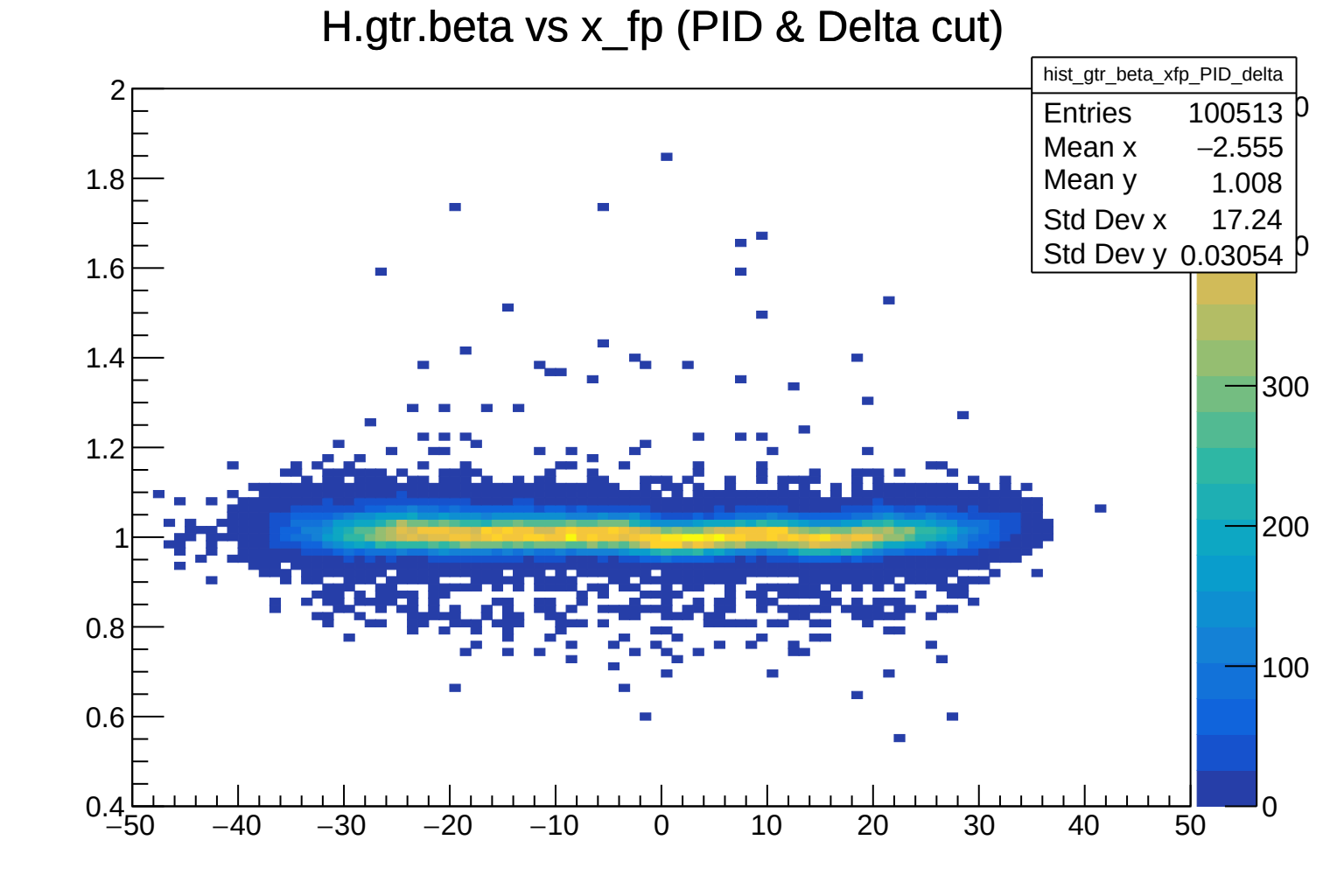

focal plane (PID cut)
hist_yfp_xfp_PID
Entries 146475
Mean x −3.112
Mean y 0.4597
Std Dev x 24.66
Std Dev y 8.281
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
250
200
150
100
50
0

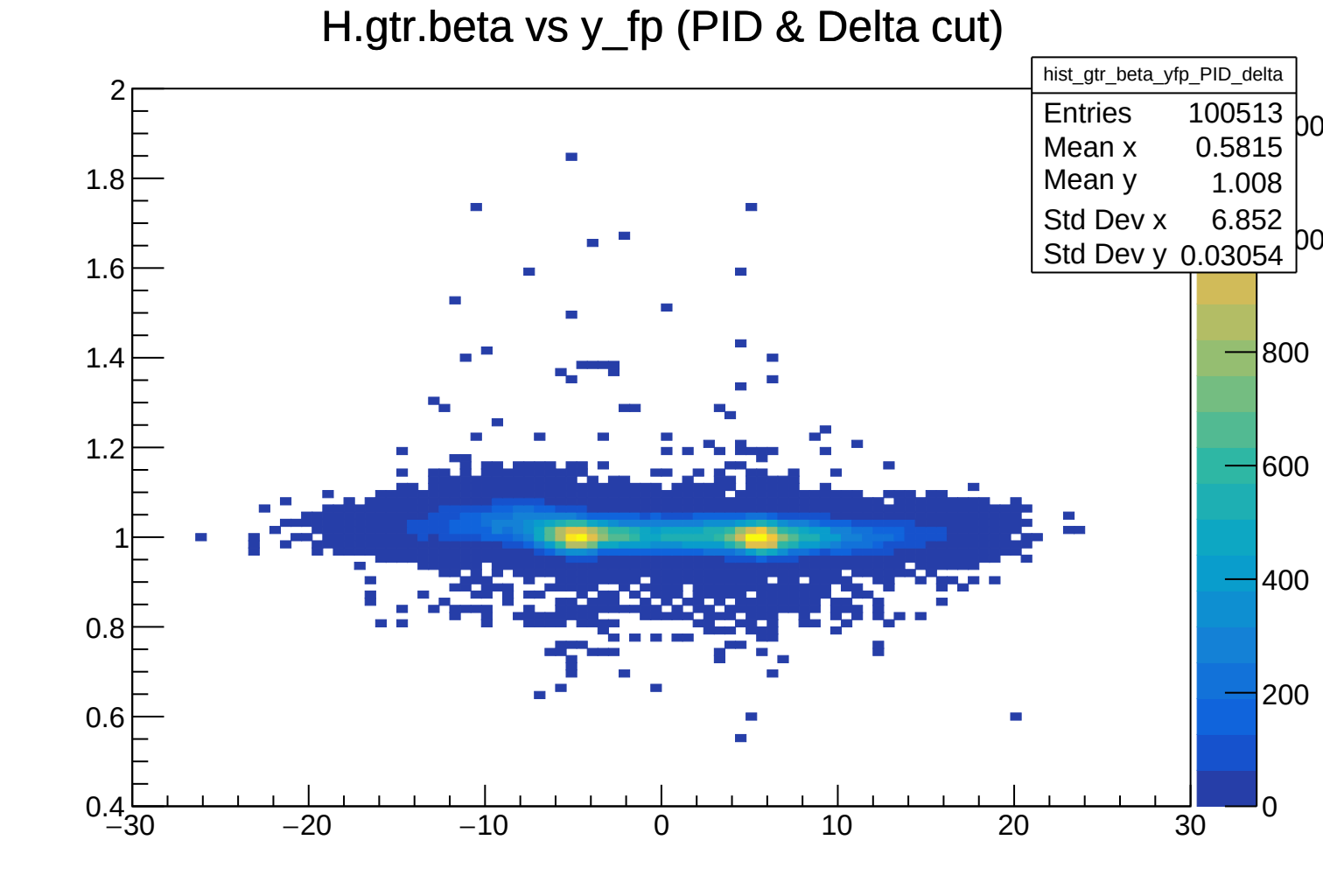

H.gtr.beta vs x_fp (PID cut)
hist_gtr_beta_xfp_PID
Entries 146475
Mean x −3.087
Mean y 1.01
Std Dev x 24.65
Std Dev y 0.03312
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−50
−40
−30
−20
−10
0
10
20
30
40
50
300
200
100
0

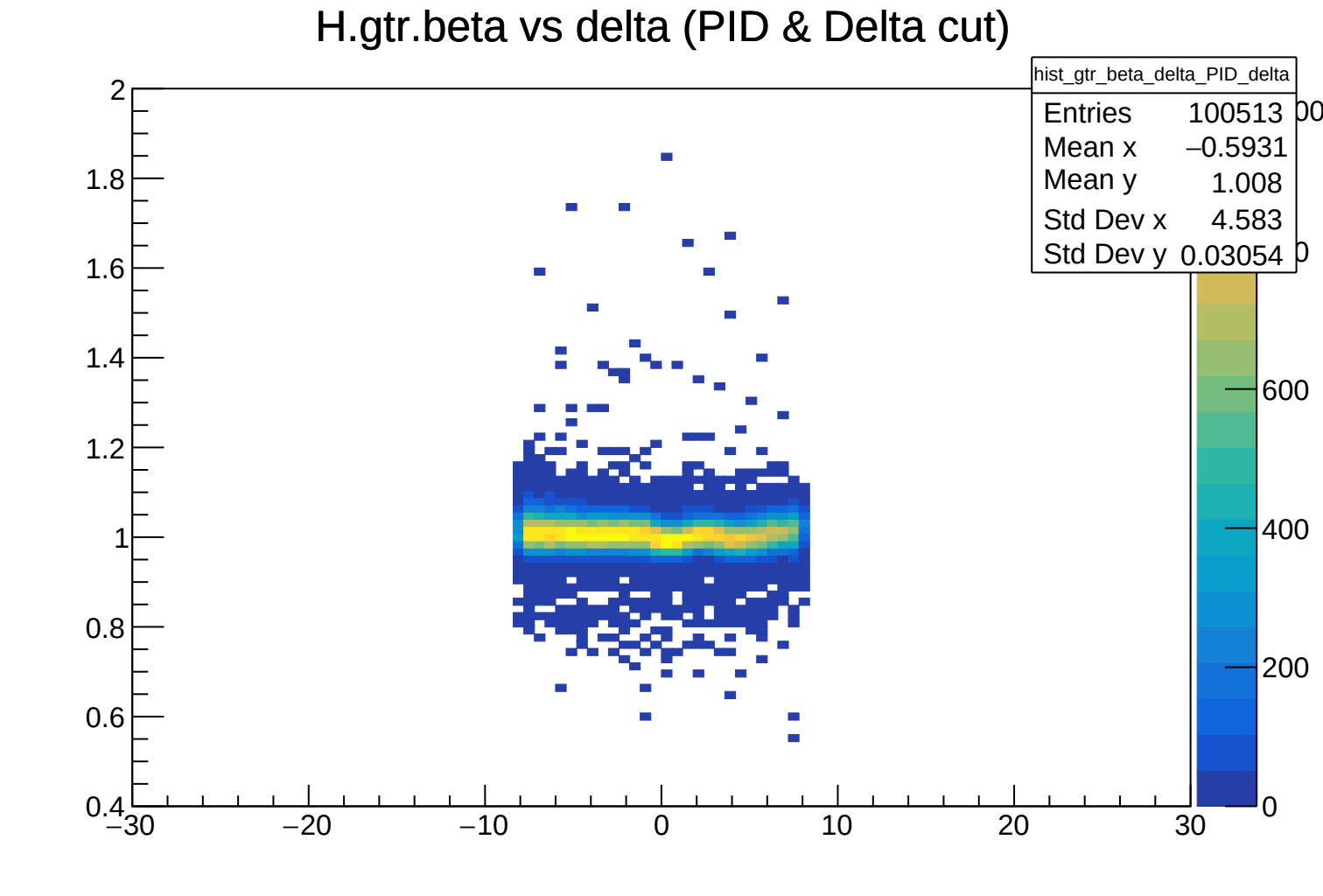

H.gtr.beta vs y_fp (PID cut)
hist_gtr_beta_yfp_PID
Entries 146475
Mean x 0.4592
Mean y 1.01
Std Dev x 8.28
Std Dev y 0.03312
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
1000
800
600
400
200
0


H.gtr.beta vs delta (PID cut)
hist_gtr_beta_delta_PID
Entries 146475
Mean x –0.485
Mean y 1.01
Std Dev x 6.82
Std Dev y 0.03302
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
–30
–20
–10
0
10
20
30
600
400
200
0


focal plane (PID & Delta cut)
hist_yfp_xfp_PID_delta
Entries 100513
Mean x −2.556
Mean y 0.5815
Std Dev x 17.24
Std Dev y 6.852
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 (PID & Delta cut)
hist_gtr_beta_xfp_PID_delta
Entries 100513
Mean x −2.555
Mean y 1.008
Std Dev x 17.24
Std Dev y 0.03054
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
200
100
0


H.gtr.beta vs y_fp (PID & Delta cut)
hist_gtr_beta_yfp_PID_delta
Entries 100513
Mean x 0.5815
Mean y 1.008
Std Dev x 6.852
Std Dev y 0.03054
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 100513
Mean x −0.5931
Mean y 1.008
Std Dev x 4.583
Std Dev y 0.03054
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
600
400
200
0