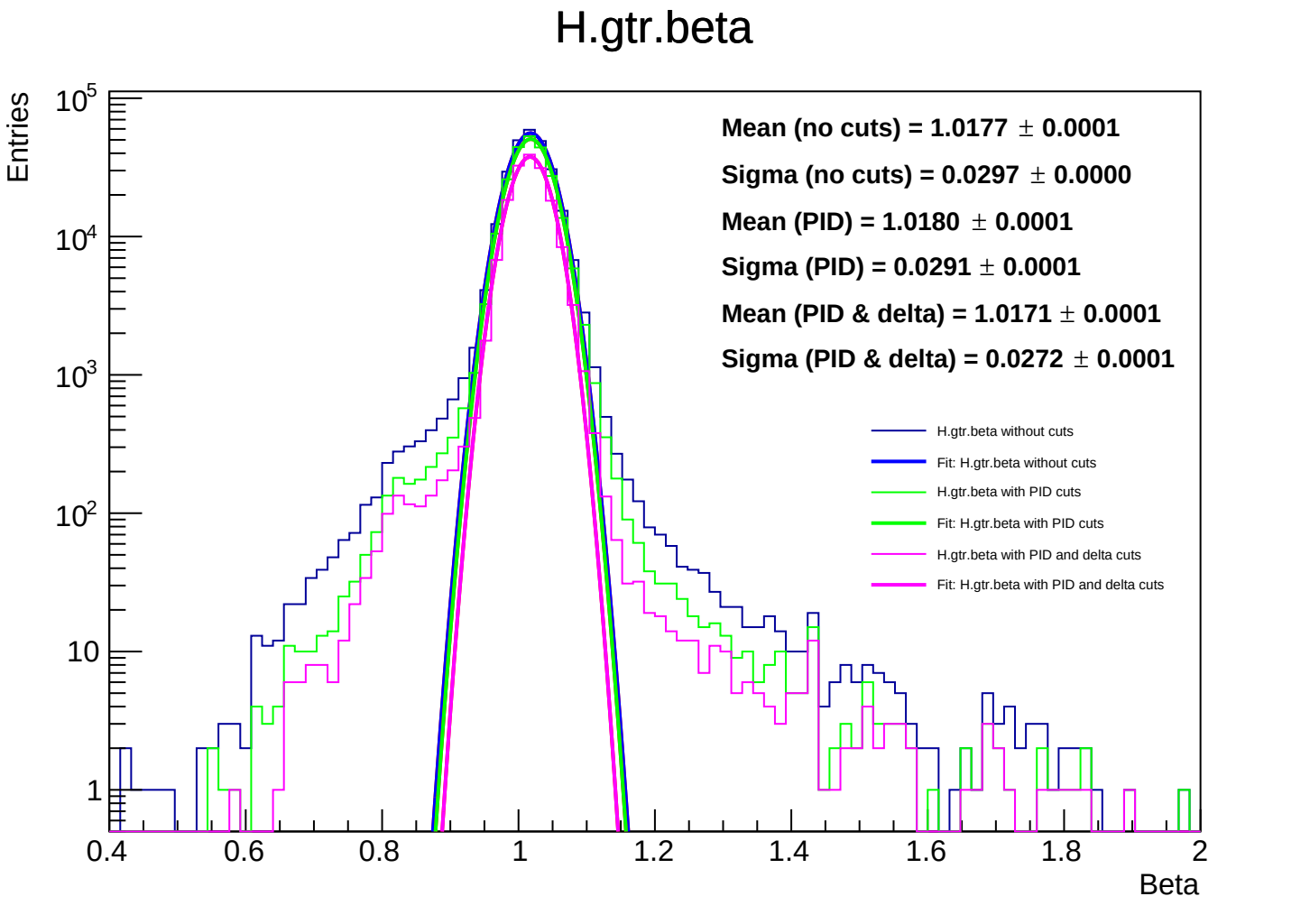
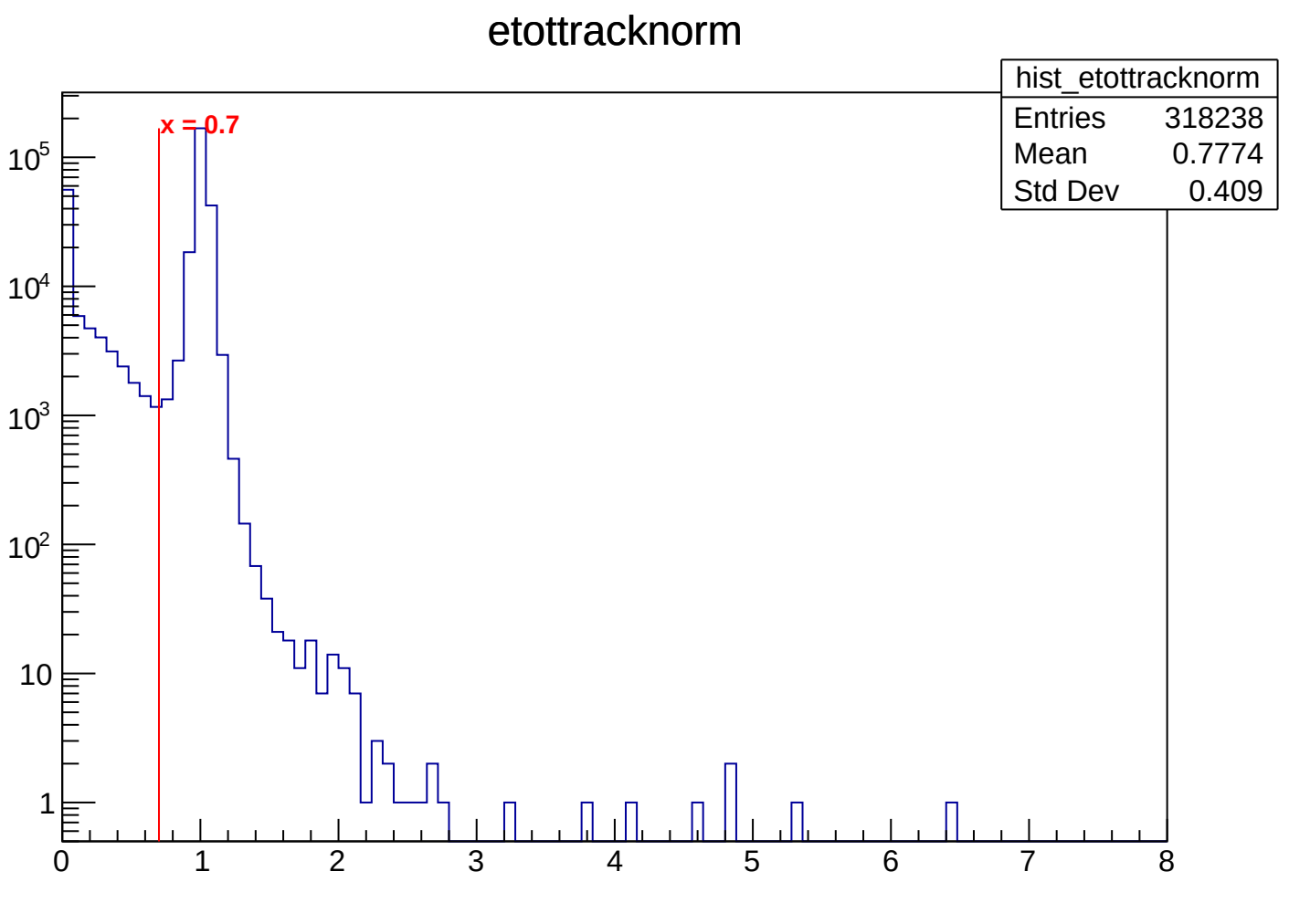
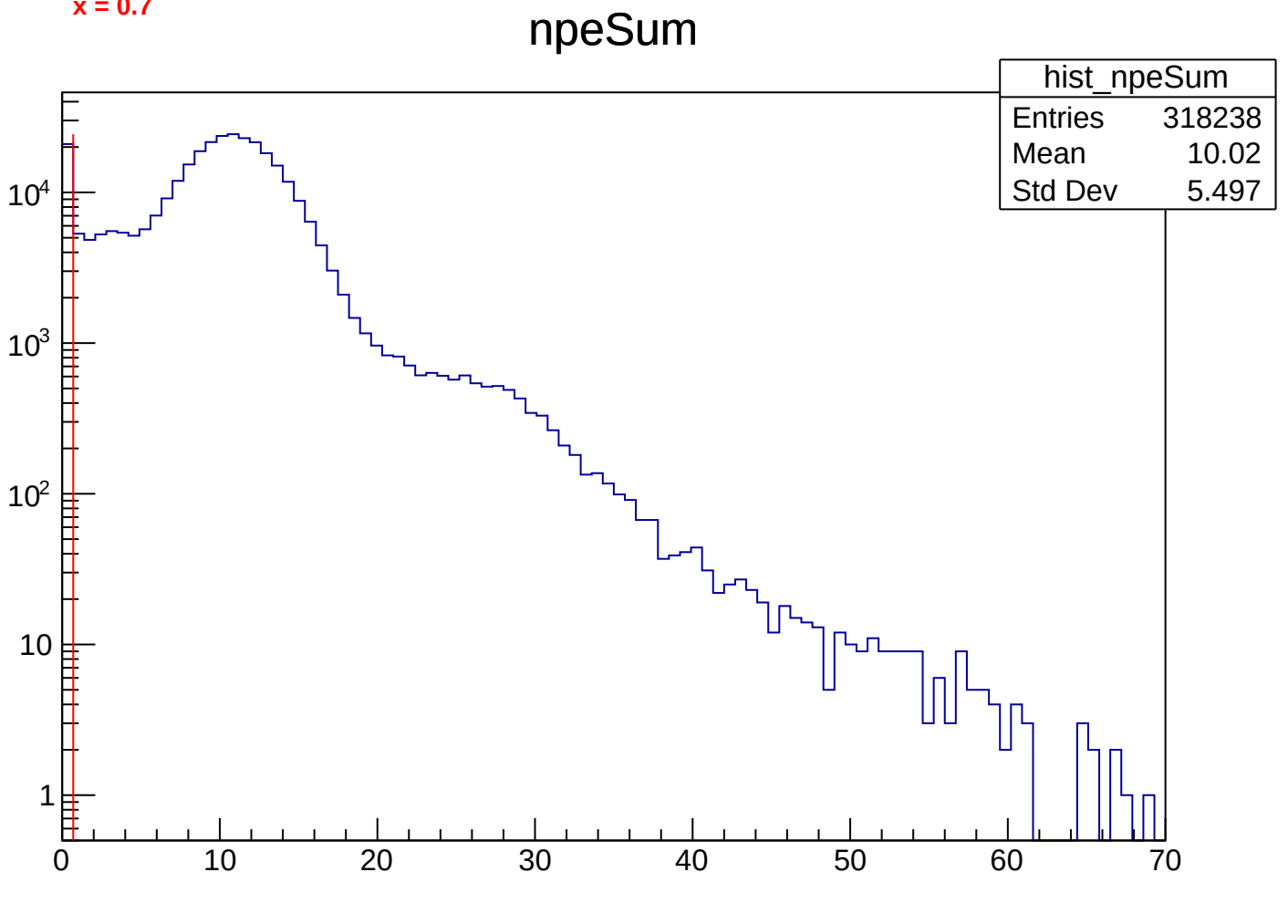
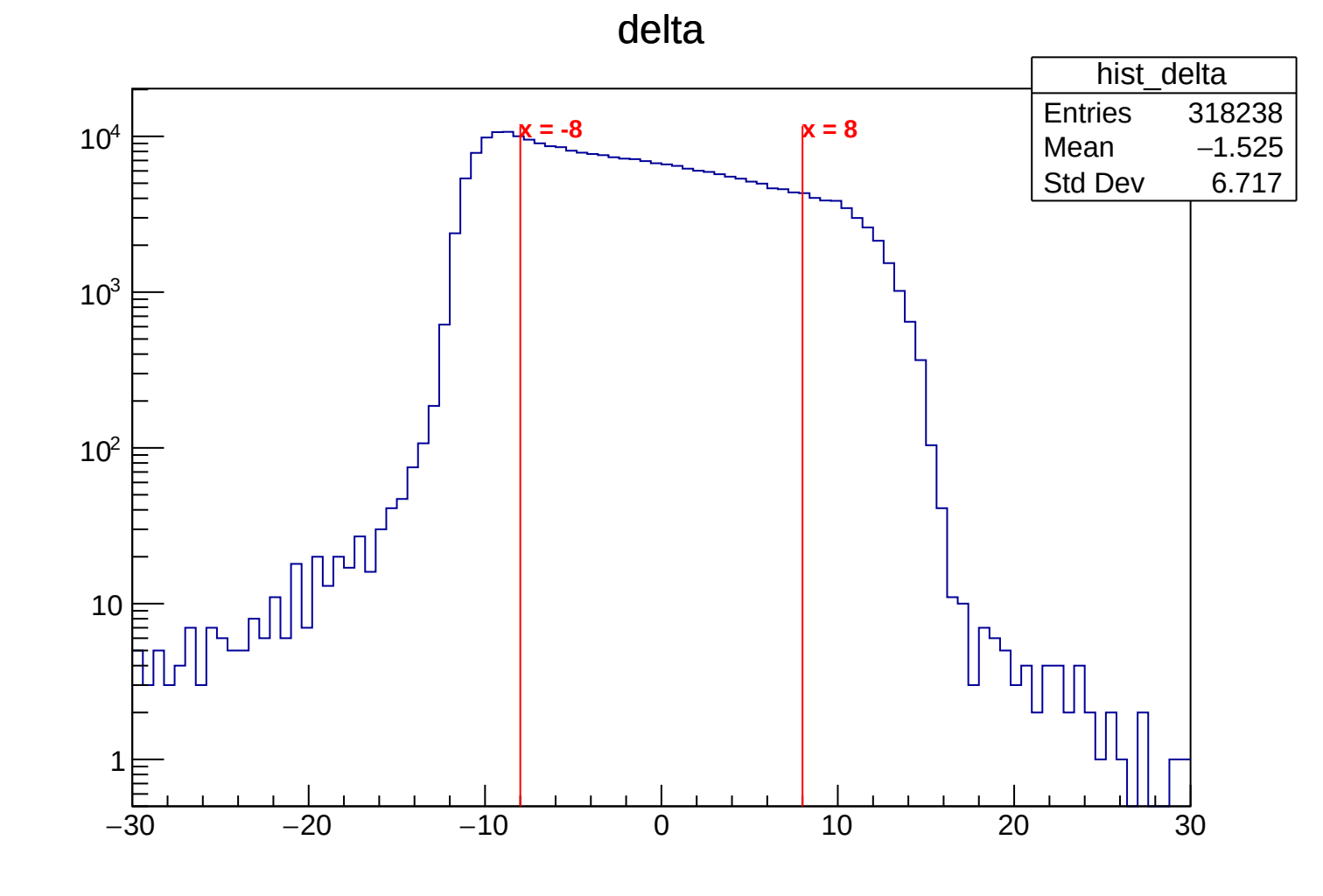
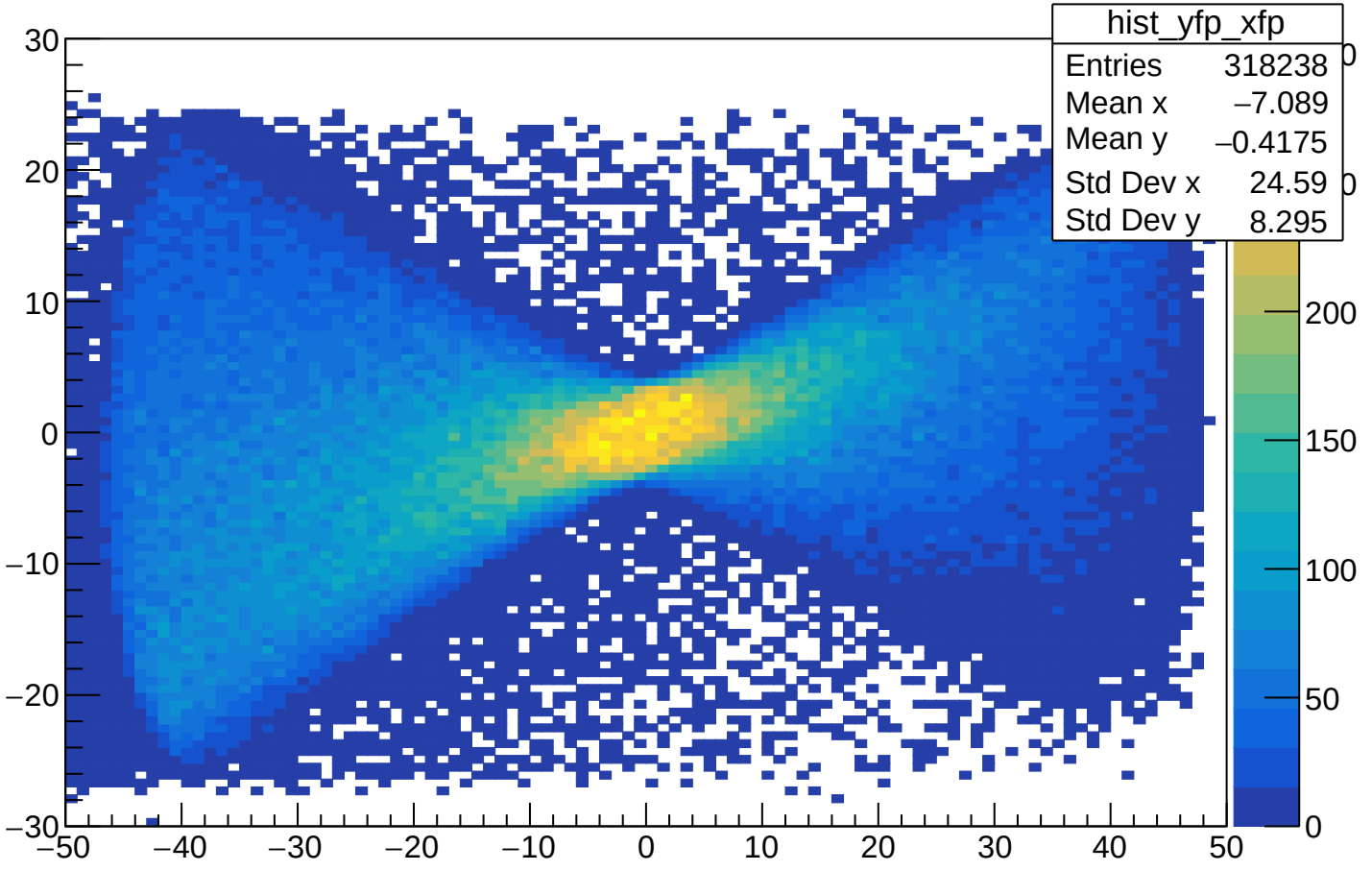
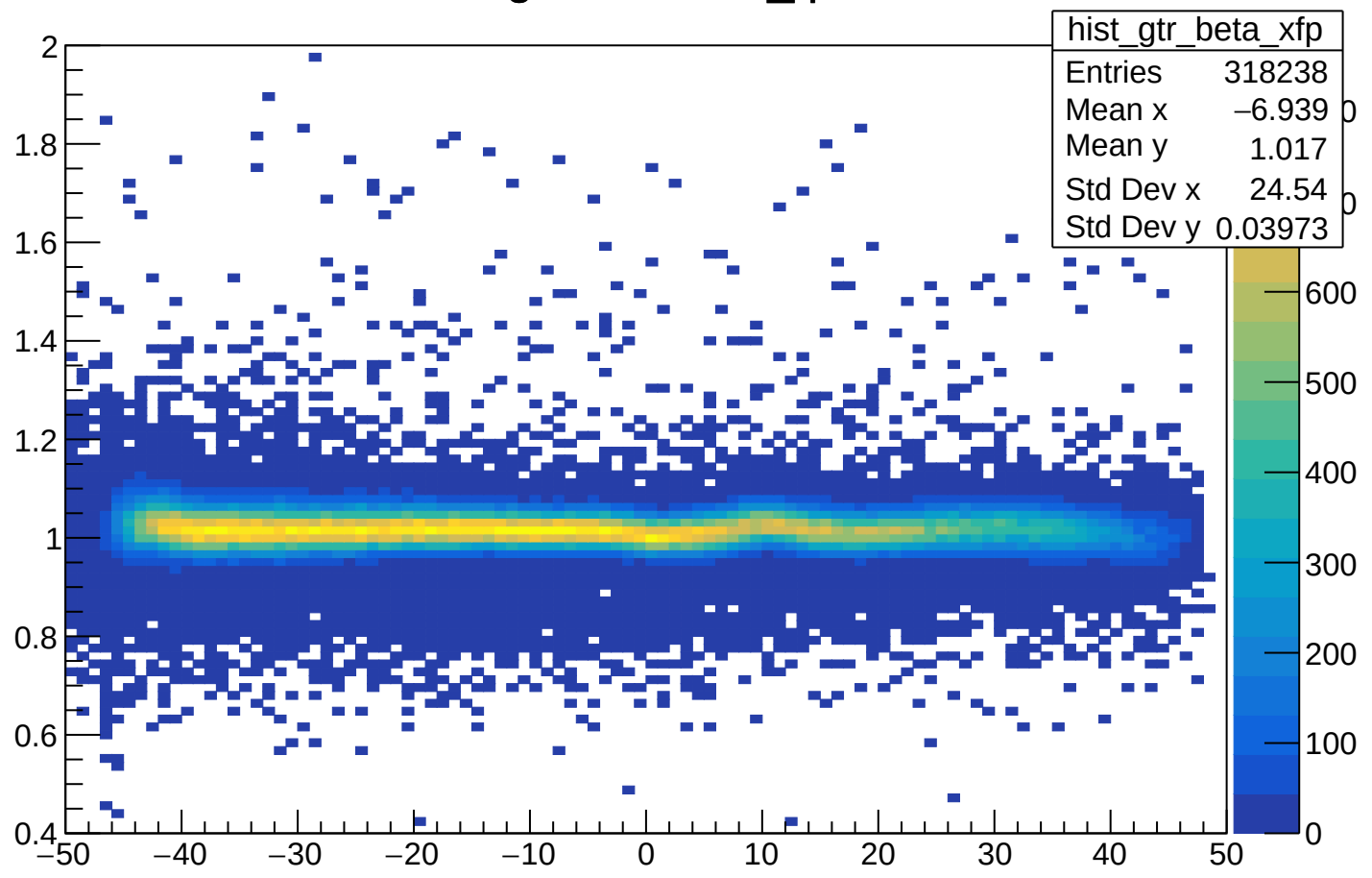

H.gtr.beta
Entries
Beta
Mean (no cuts) = 1.0177 ± 0.0001
Sigma (no cuts) = 0.0297 ± 0.0000
Mean (PID) = 1.0180 ± 0.0001
Sigma (PID) = 0.0291 ± 0.0001
Mean (PID & delta) = 1.0171 ± 0.0001
Sigma (PID & delta) = 0.0272 ± 0.0001
H.gtr.beta without cuts
Fit: H.gtr.beta without cuts
H.gtr.beta with PID cuts
Fit: H.gtr.beta with PID cuts
H.gtr.beta with PID and delta cuts
Fit: H.gtr.beta with PID and delta cuts

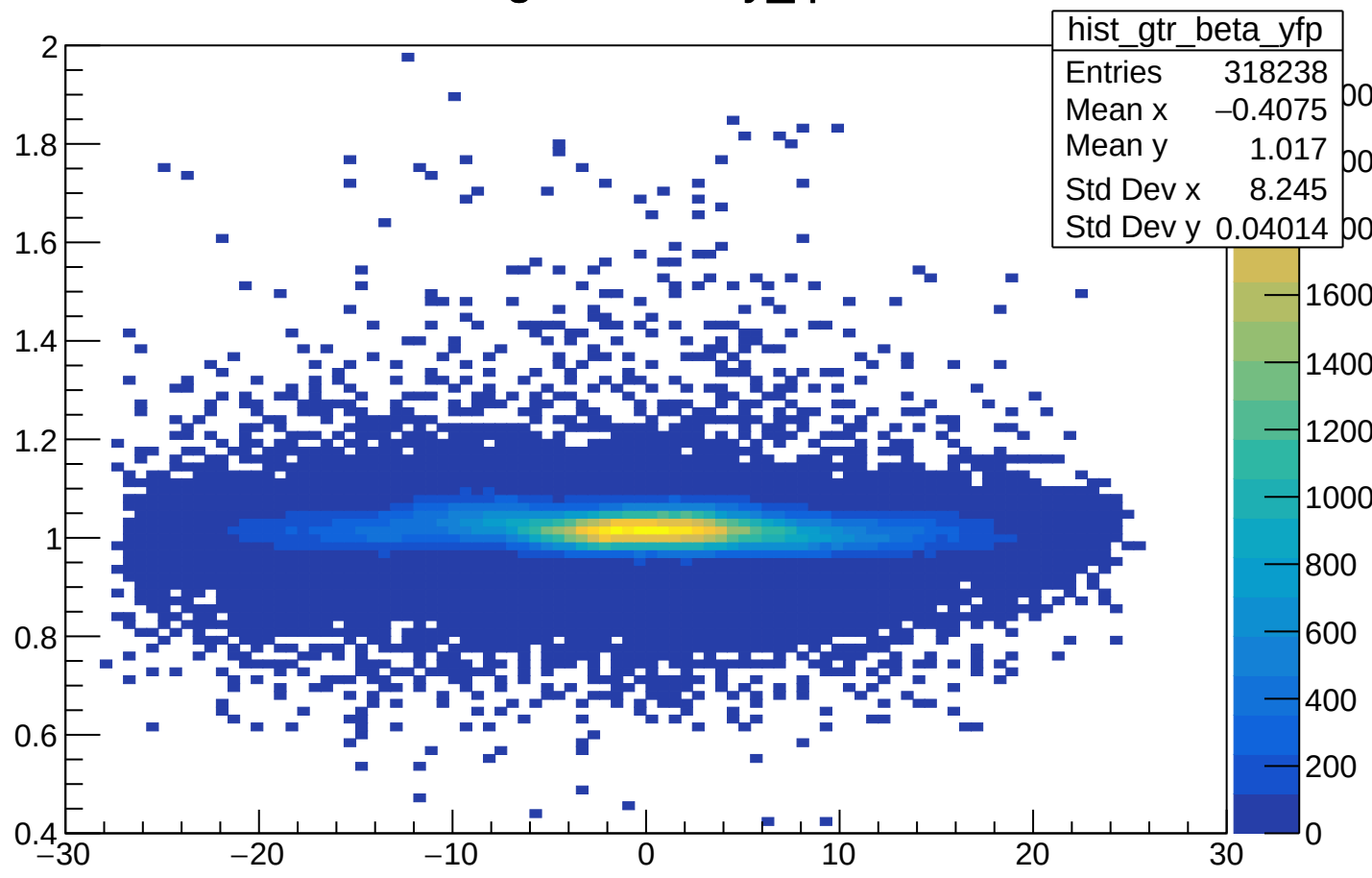

etottracknorm
hist_etottracknorm
Entries 318238
Mean 0.7774
Std Dev 0.409
x = 0.7
$10^5$
$10^4$
$10^3$
$10^2$
10
1
0
1
2
3
4
5
6
7
8

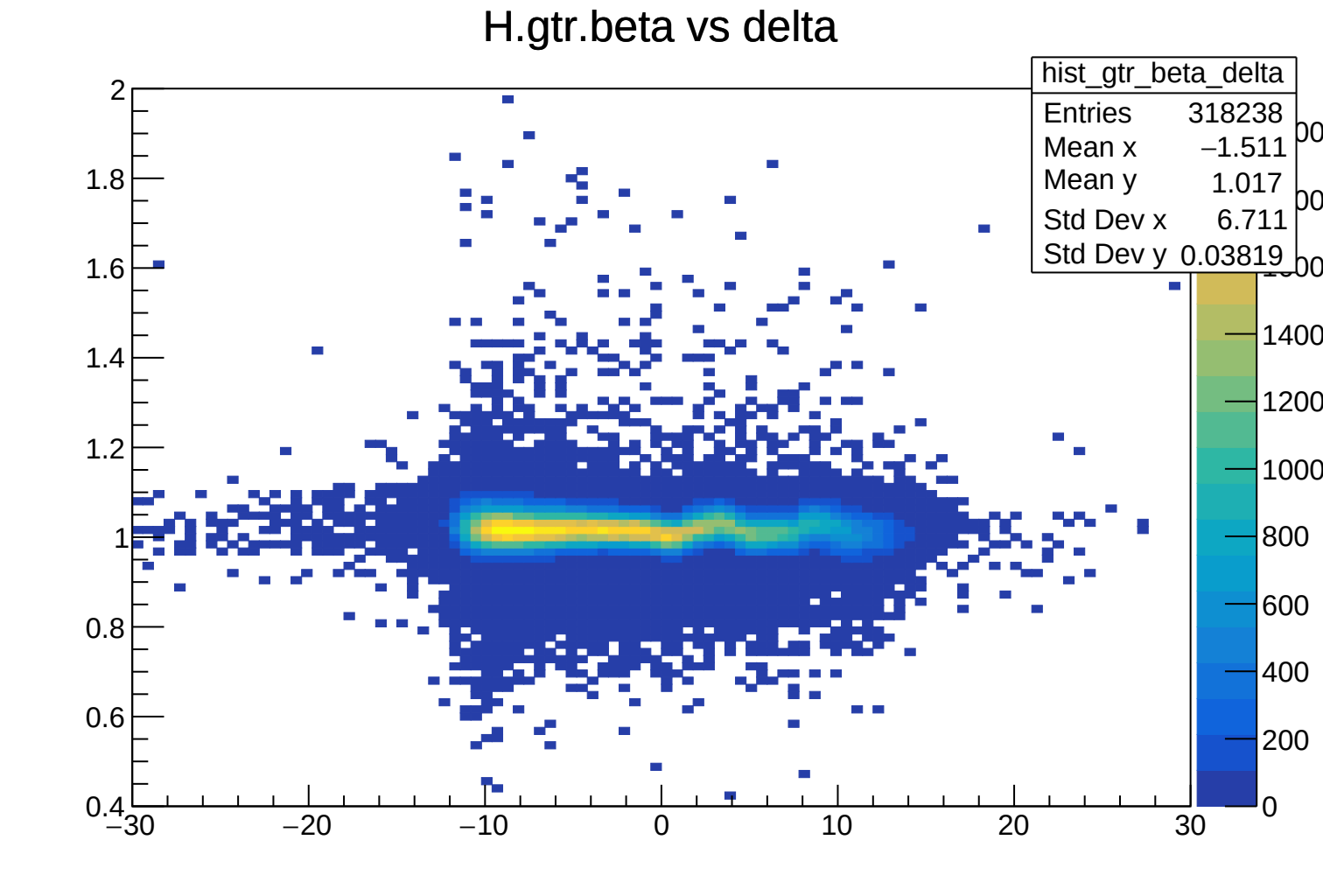

x = 0.7
npeSum
hist_npeSum
Entries 318238
Mean 10.02
Std Dev 5.497
$10^4$
$10^3$
$10^2$
10
1
0
10
20
30
40
50
60
70

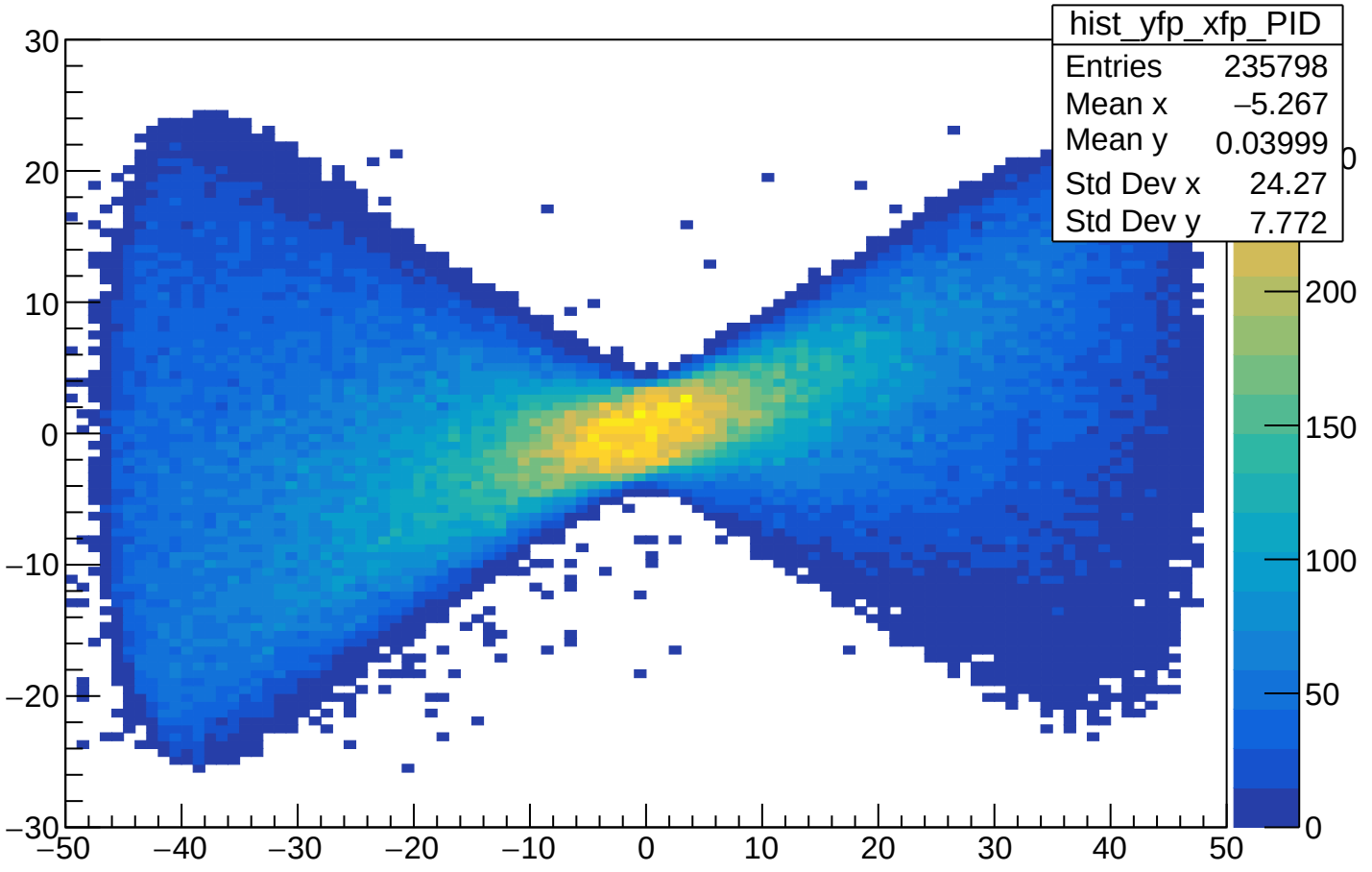

delta
hist_delta
Entries 318238
Mean −1.525
Std Dev 6.717
x = -8
x = 8
10^4
10^3
10^2
10
1
−30
−20
−10
0
10
20
30

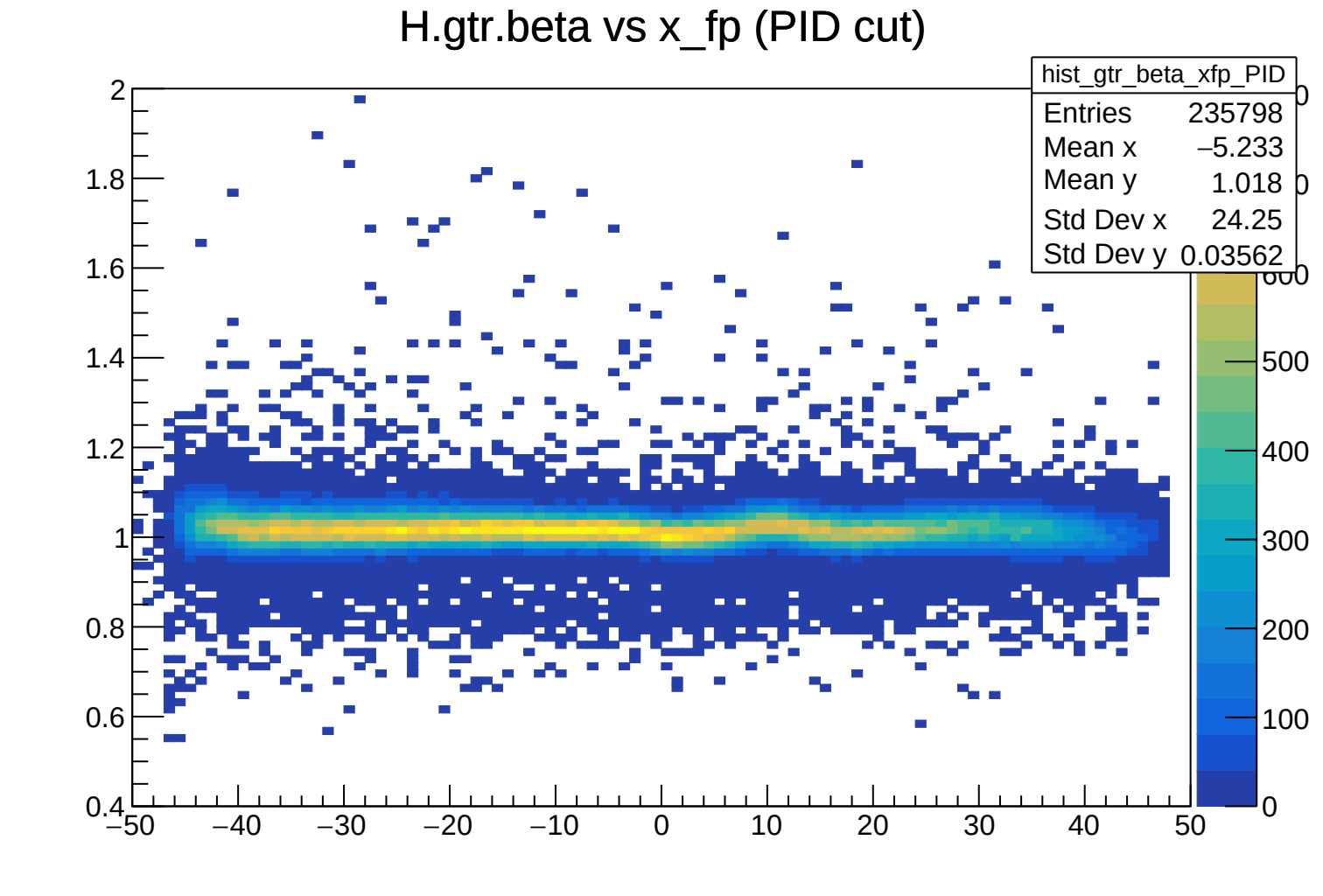

focal plane
hist_yfp_xfp
Entries 318238
Mean x −7.089
Mean y −0.4175
Std Dev x 24.59
Std Dev y 8.295
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
200
150
100
50
0

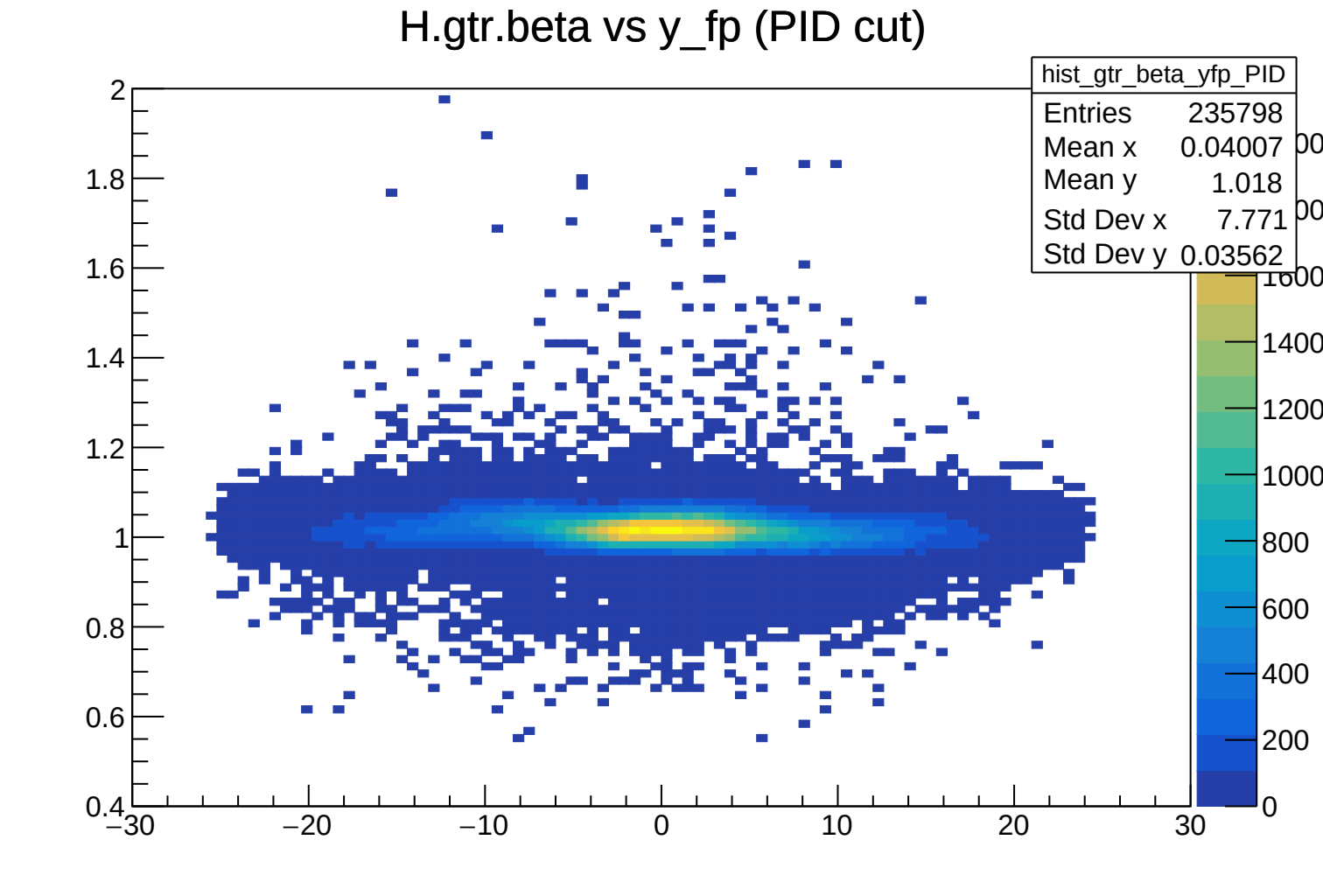

H.gtr.beta vs x_fp
hist_gtr_beta_xfp
Entries 318238
Mean x −6.939
Mean y 1.017
Std Dev x 24.54
Std Dev y 0.03973
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−50
−40
−30
−20
−10
0
10
20
30
40
50
600
500
400
300
200
100
0

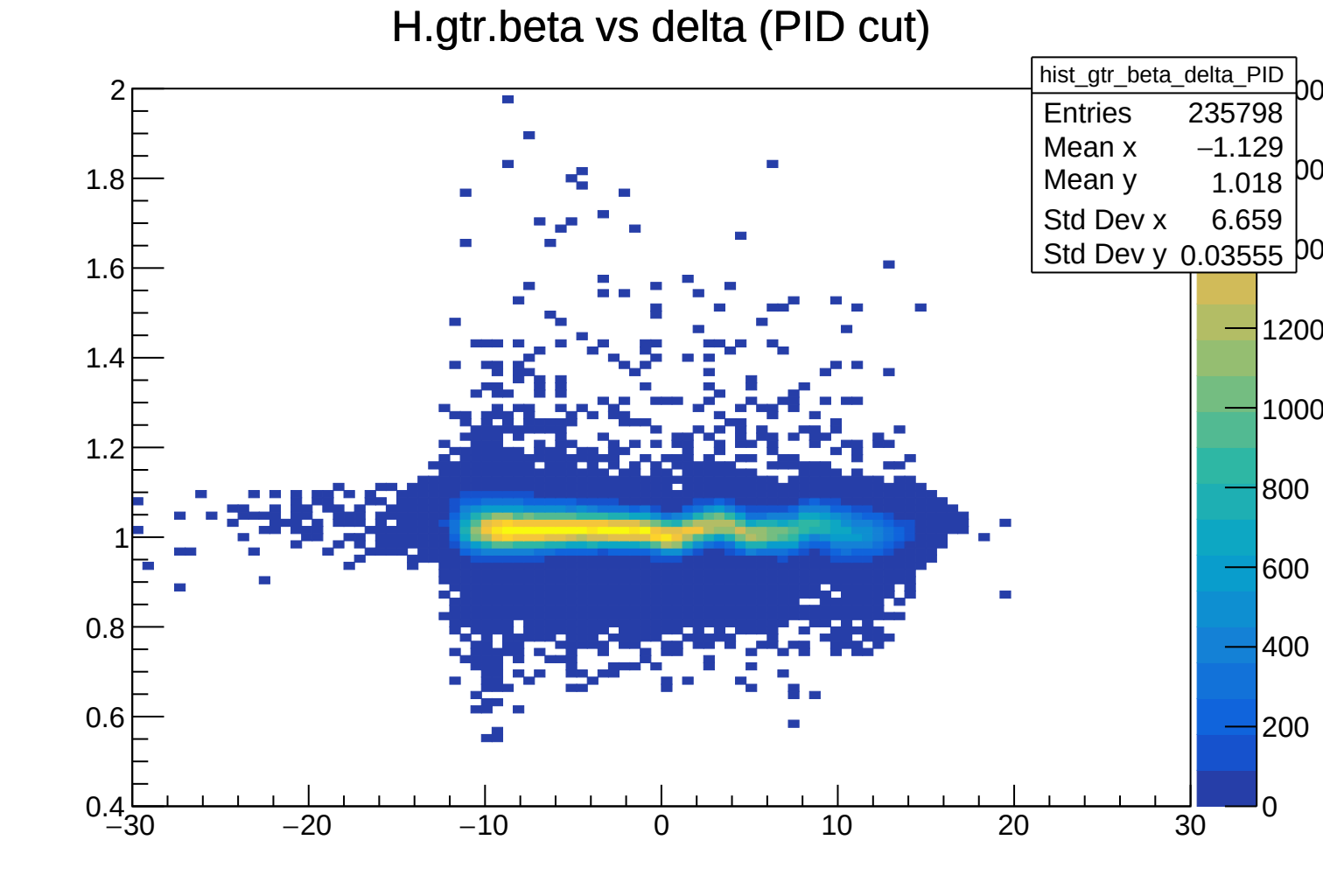

H.gtr.beta vs y_fp
hist_gtr_beta_yfp
Entries 318238
Mean x −0.4075
Mean y 1.017
Std Dev x 8.245
Std Dev y 0.04014
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
1600
1400
1200
1000
800
600
400
200
0

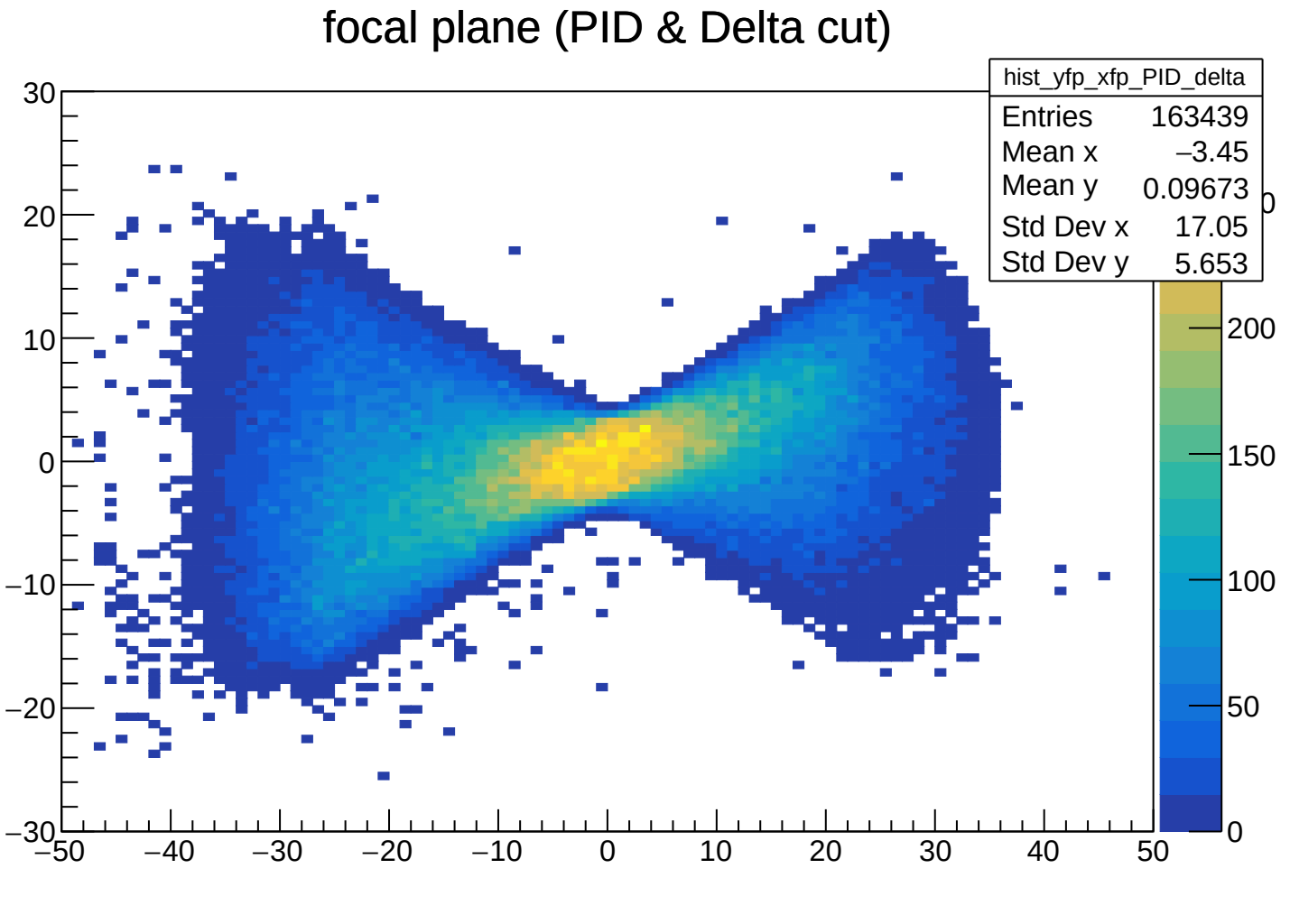

H.gtr.beta vs delta
hist_gtr_beta_delta
Entries 318238
Mean x −1.511
Mean y 1.017
Std Dev x 6.711
Std Dev y 0.03819
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
1400
1200
1000
800
600
400
200
0

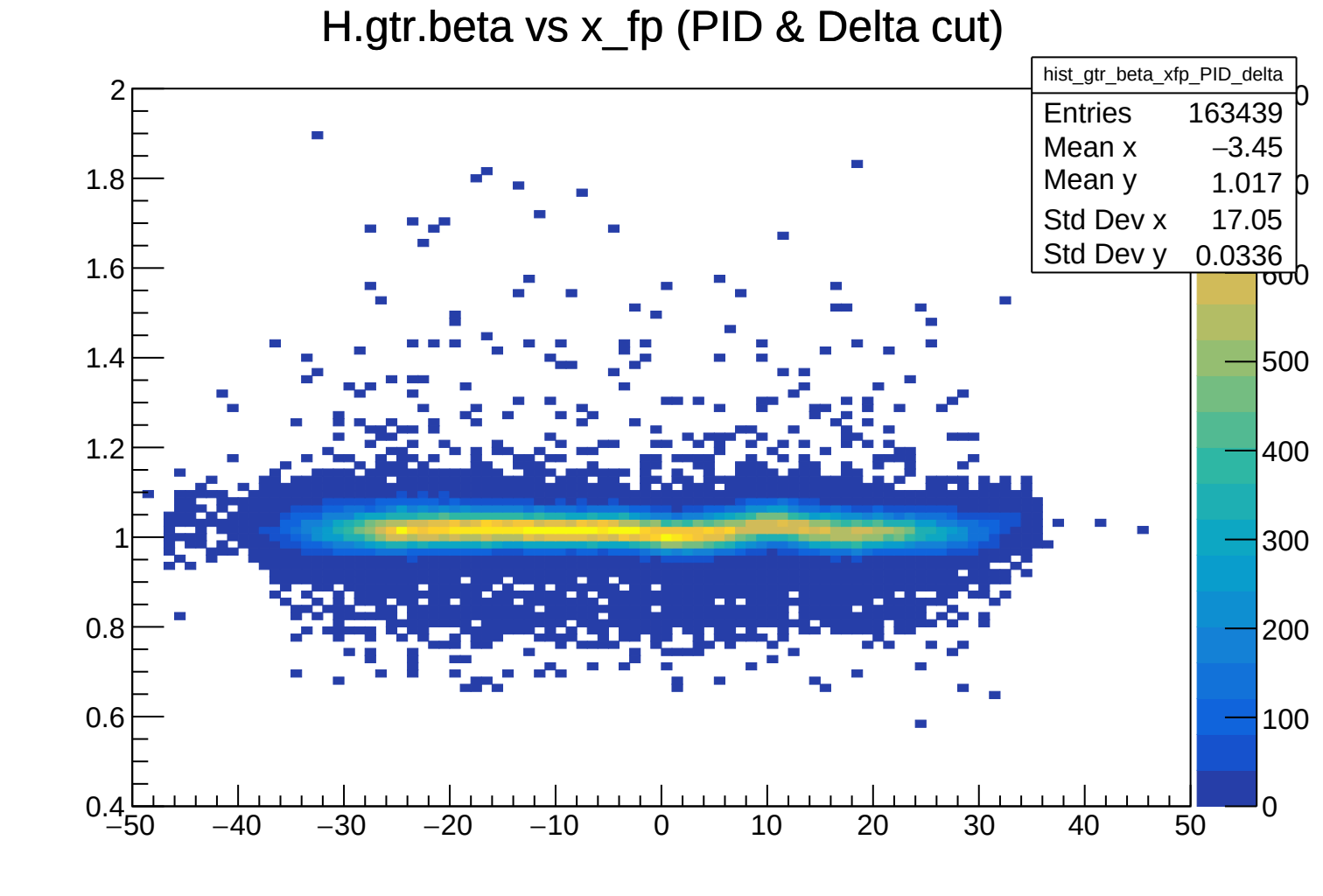

focal plane (PID cut)
hist_yfp_xfp_PID
Entries 235798
Mean x –5.267
Mean y 0.03999
Std Dev x 24.27
Std Dev y 7.772
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
200
150
100
50
0

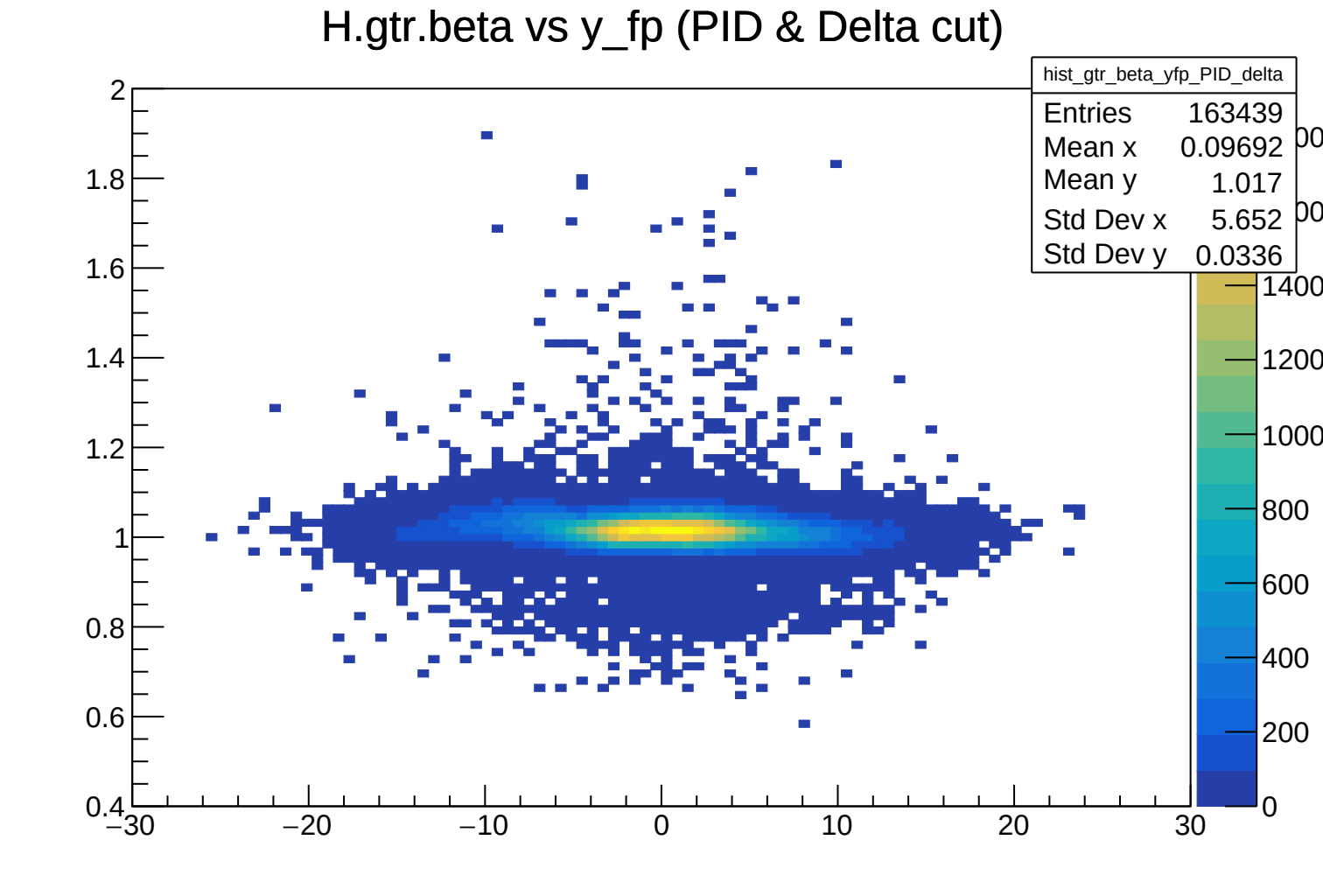

H.gtr.beta vs x_fp (PID cut)
hist_gtr_beta_xfp_PID
Entries 235798
Mean x –5.233
Mean y 1.018
Std Dev x 24.25
Std Dev y 0.03562
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
–50
–40
–30
–20
–10
0
10
20
30
40
50
600
500
400
300
200
100
0

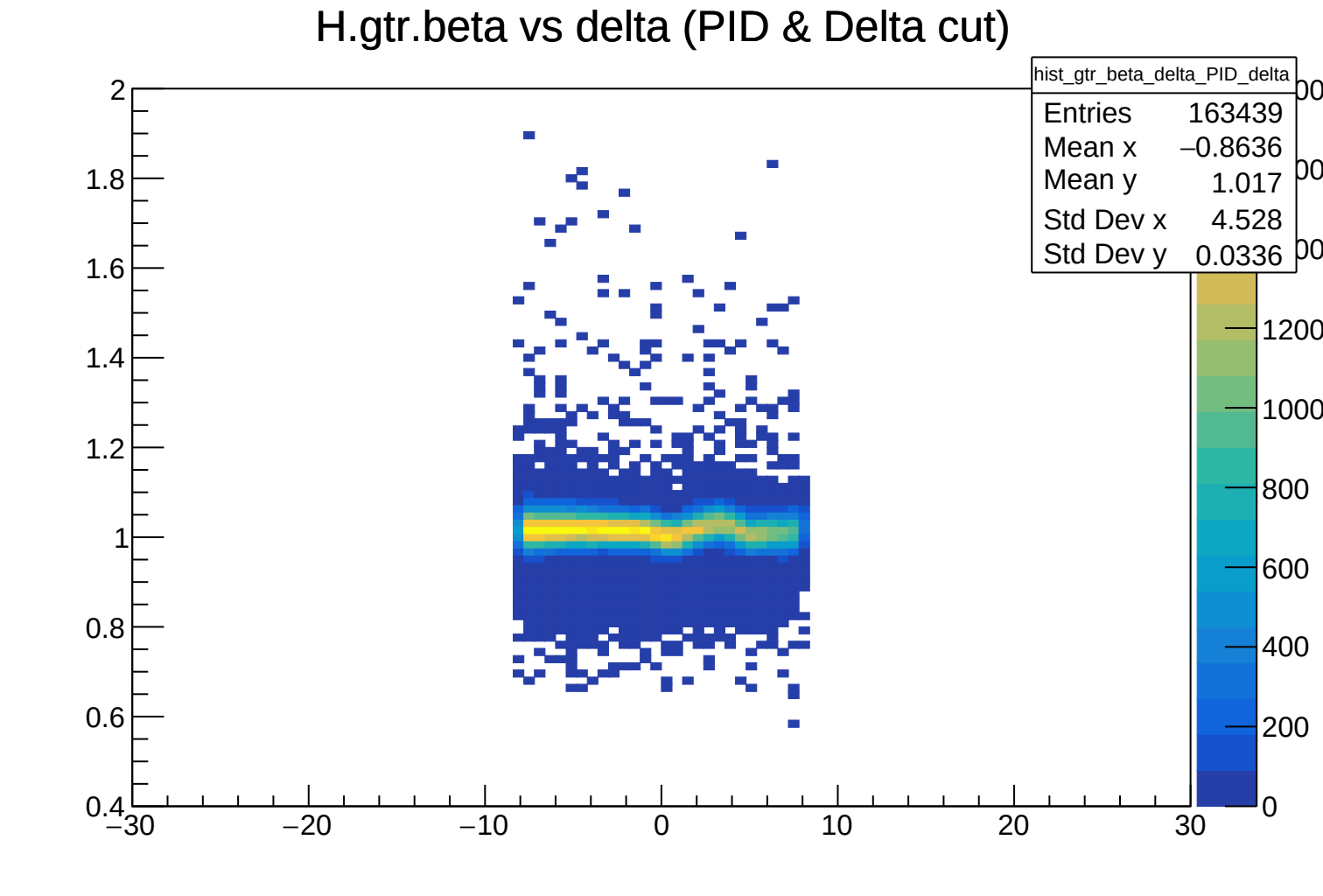

H.gtr.beta vs y_fp (PID cut)
hist_gtr_beta_yfp_PID
Entries 235798
Mean x 0.04007
Mean y 1.018
Std Dev x 7.771
Std Dev y 0.03562
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
1600
1400
1200
1000
800
600
400
200
0


H.gtr.beta vs delta (PID cut)
hist_gtr_beta_delta_PID
Entries 235798
Mean x −1.129
Mean y 1.018
Std Dev x 6.659
Std Dev y 0.03555
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


focal plane (PID & Delta cut)
hist_yfp_xfp_PID_delta
Entries 163439
Mean x −3.45
Mean y 0.09673
Std Dev x 17.05
Std Dev y 5.653
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 163439
Mean x −3.45
Mean y 1.017
Std Dev x 17.05
Std Dev y 0.0336
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
500
400
300
200
100
0


H.gtr.beta vs y_fp (PID & Delta cut)
hist_gtr_beta_yfp_PID_delta
Entries 163439
Mean x 0.09692
Mean y 1.017
Std Dev x 5.652
Std Dev y 0.0336
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 & Delta cut)
hist_gtr_beta_delta_PID_delta
Entries 163439
Mean x −0.8636
Mean y 1.017
Std Dev x 4.528
Std Dev y 0.0336
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