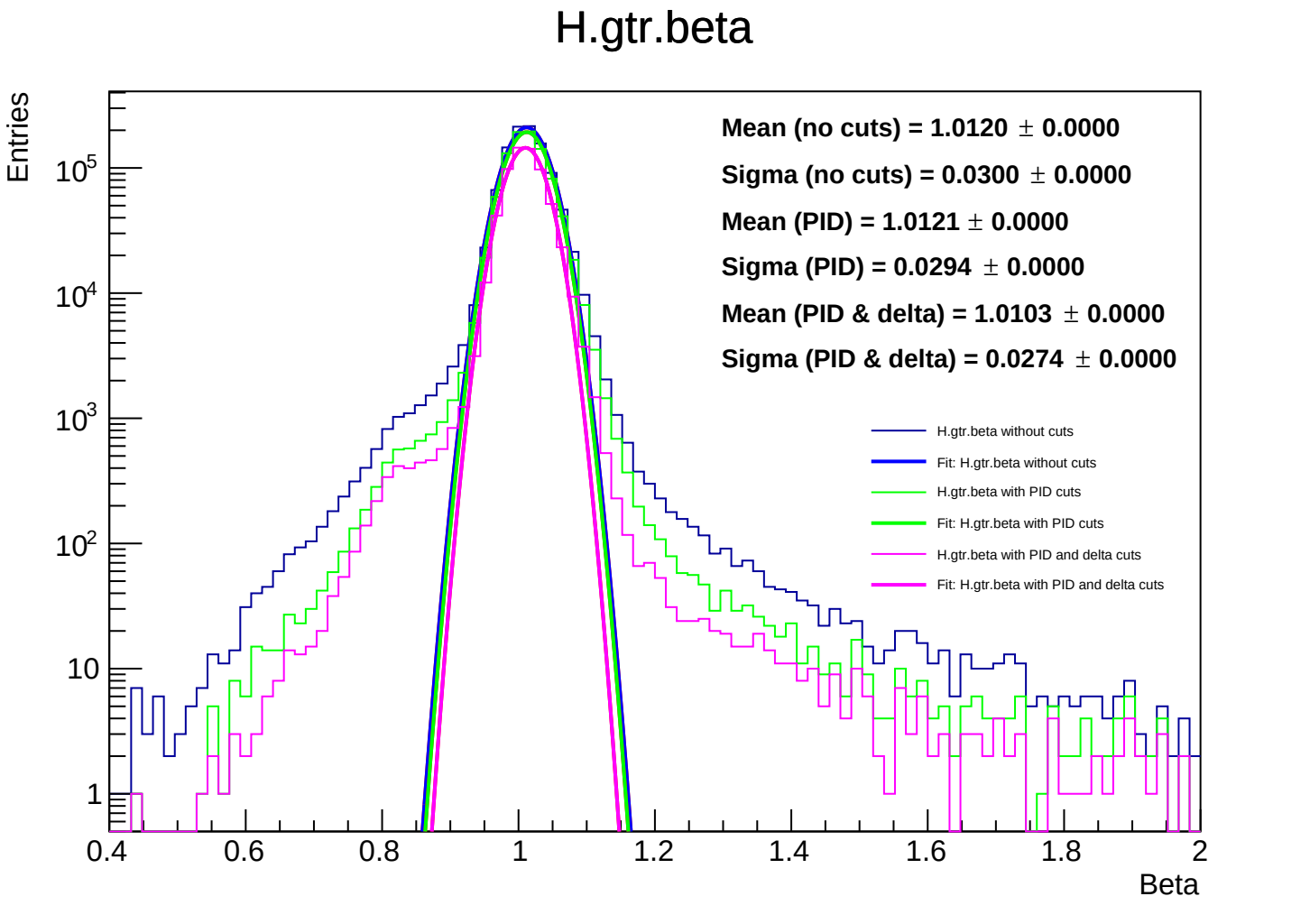
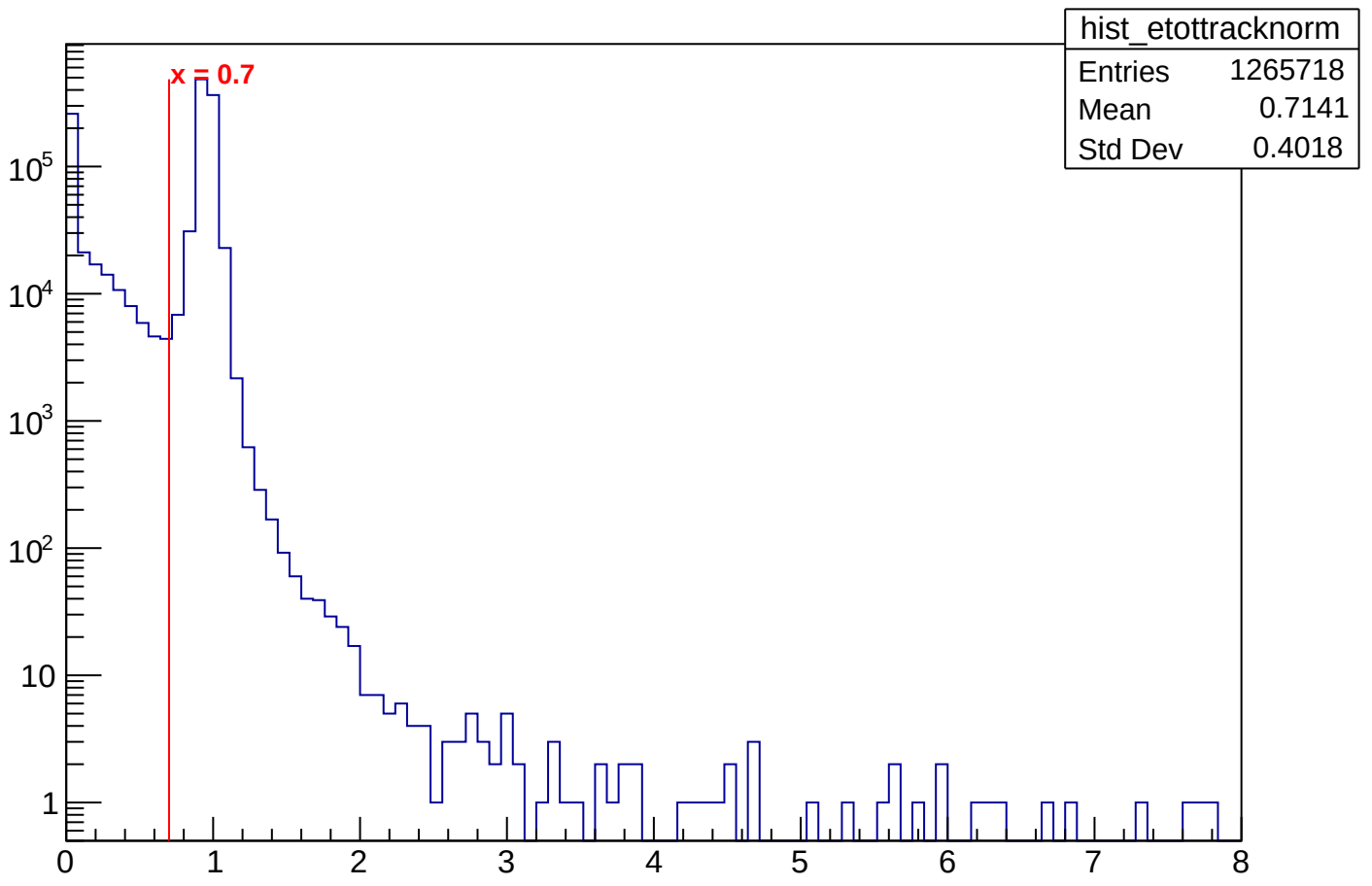
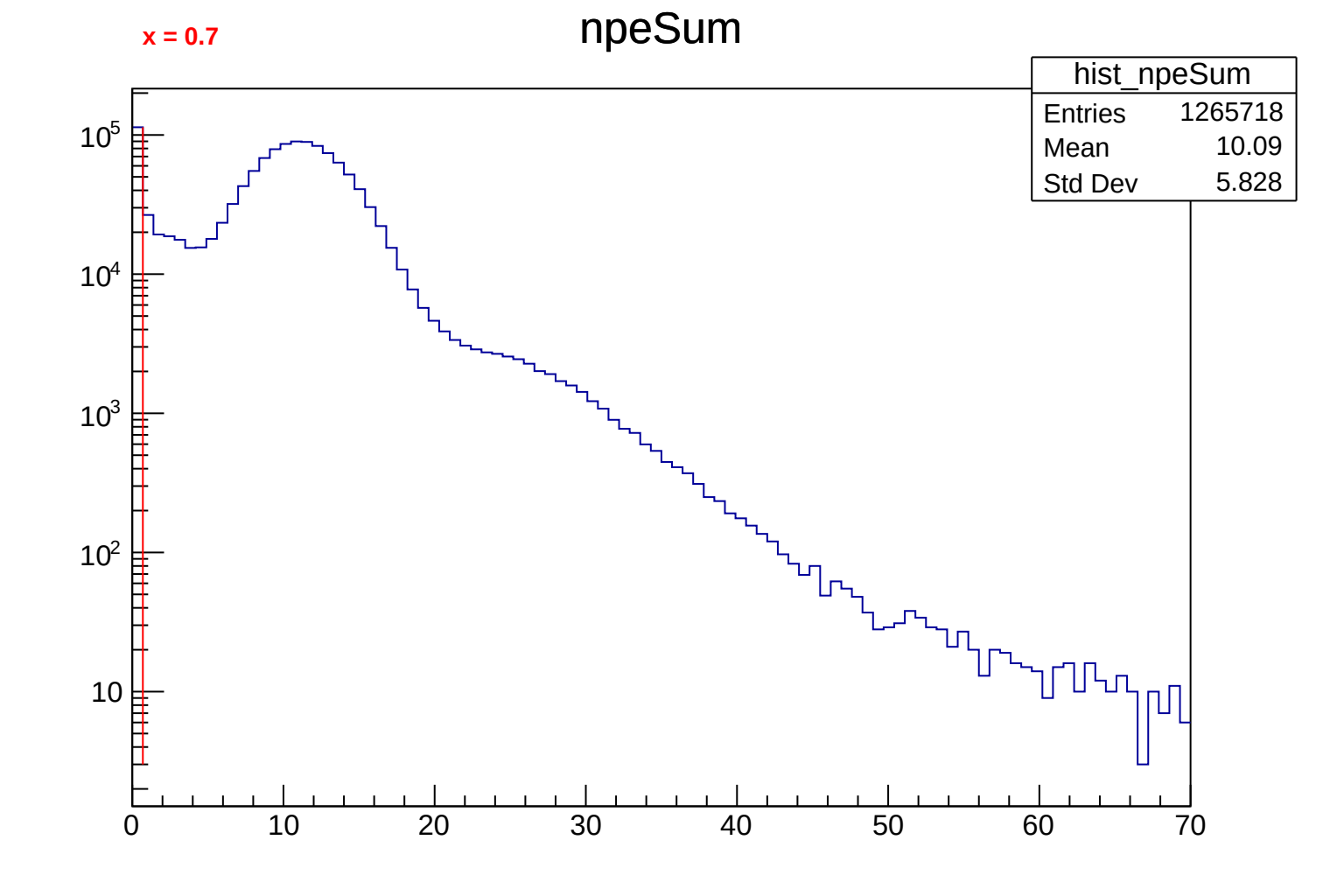
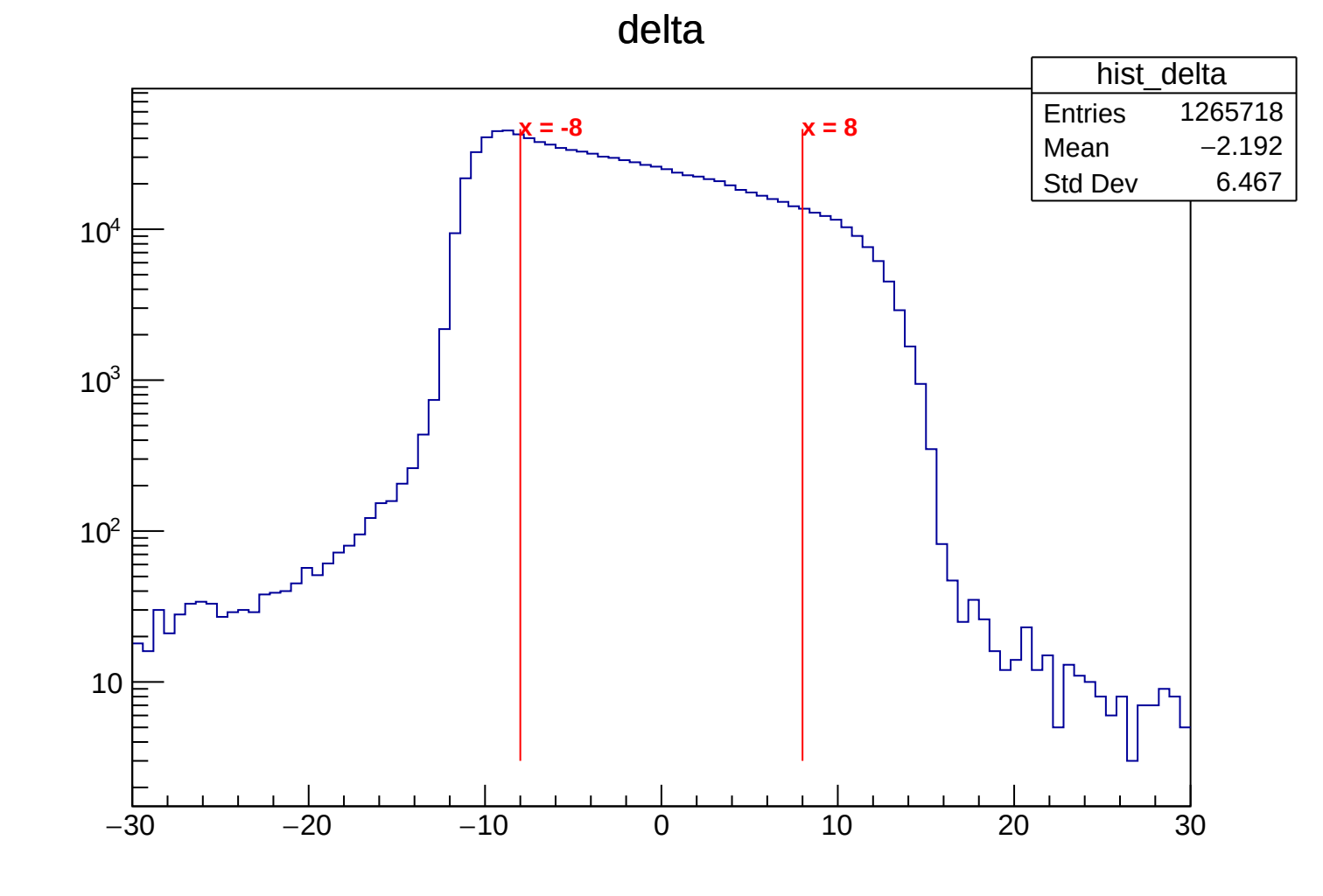
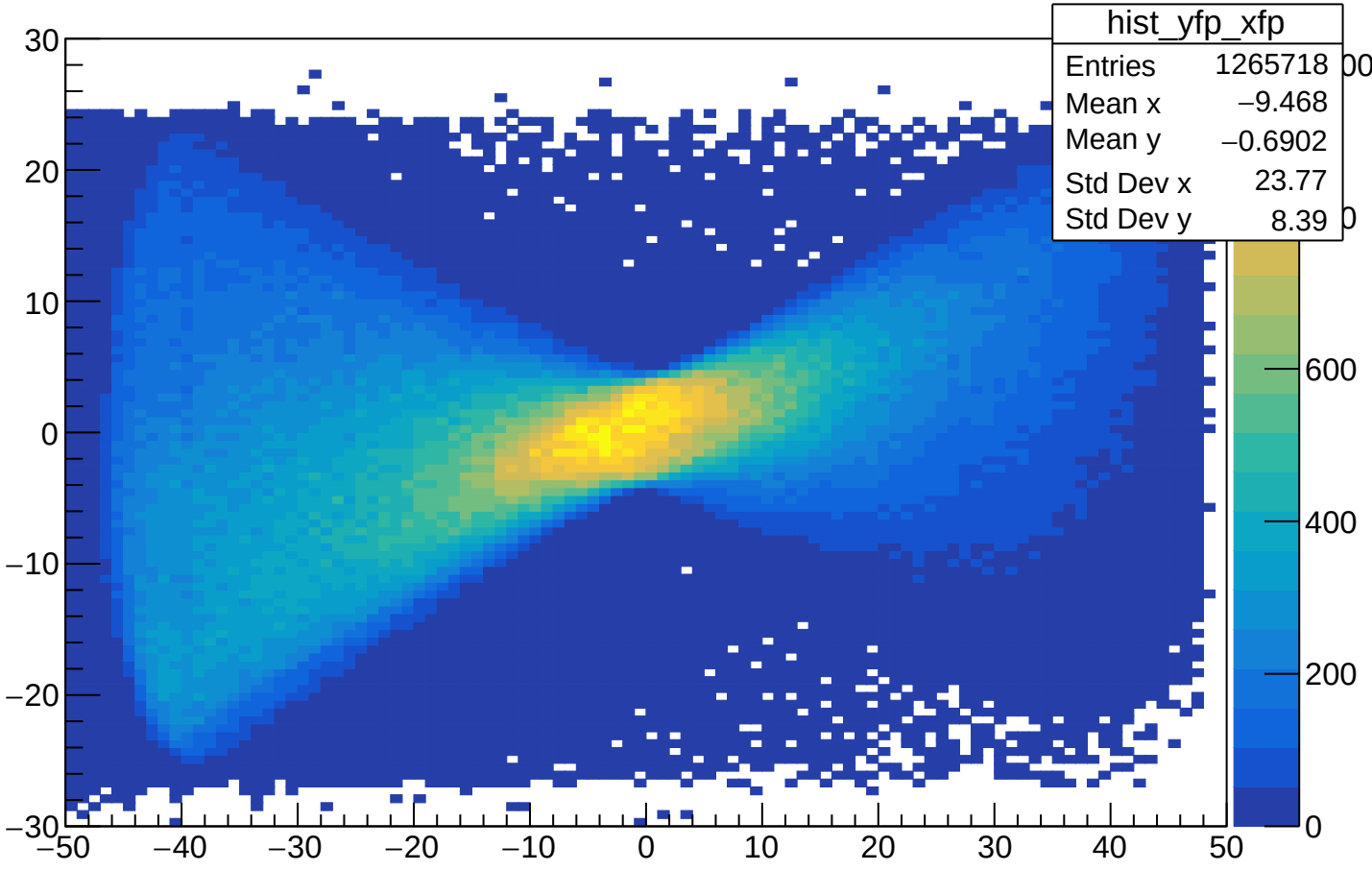
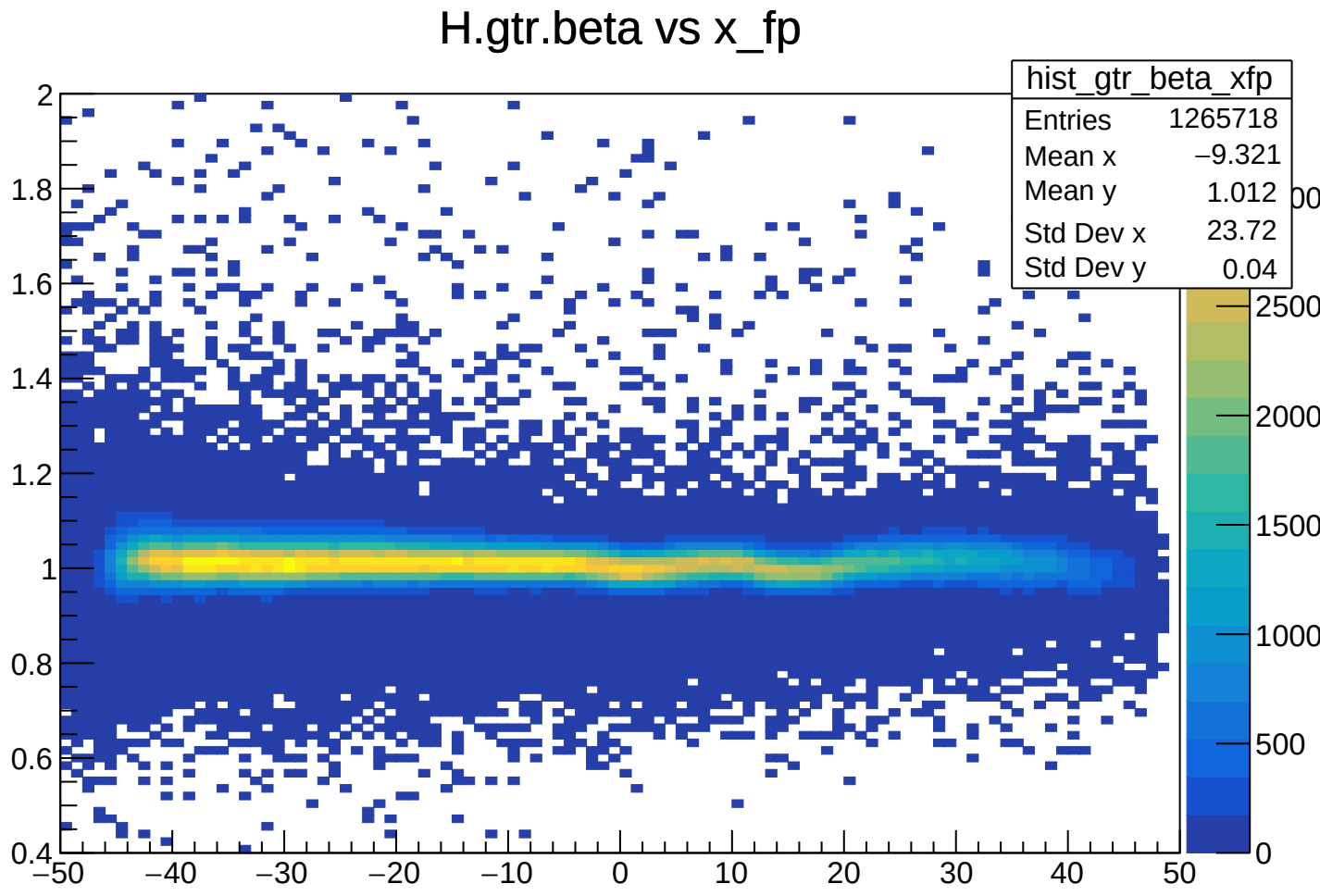

H.gtr.beta
Entries
Beta
Mean (no cuts) = 1.0120 ± 0.0000
Sigma (no cuts) = 0.0300 ± 0.0000
Mean (PID) = 1.0121 ± 0.0000
Sigma (PID) = 0.0294 ± 0.0000
Mean (PID & delta) = 1.0103 ± 0.0000
Sigma (PID & delta) = 0.0274 ± 0.0000
H.gtr.beta without cuts
Fit: H.gtr.beta without cuts
H.gtr.beta with PID cuts
Fit: H.gtr.beta with PID cuts
H.gtr.beta with PID and delta cuts
Fit: H.gtr.beta with PID and delta cuts

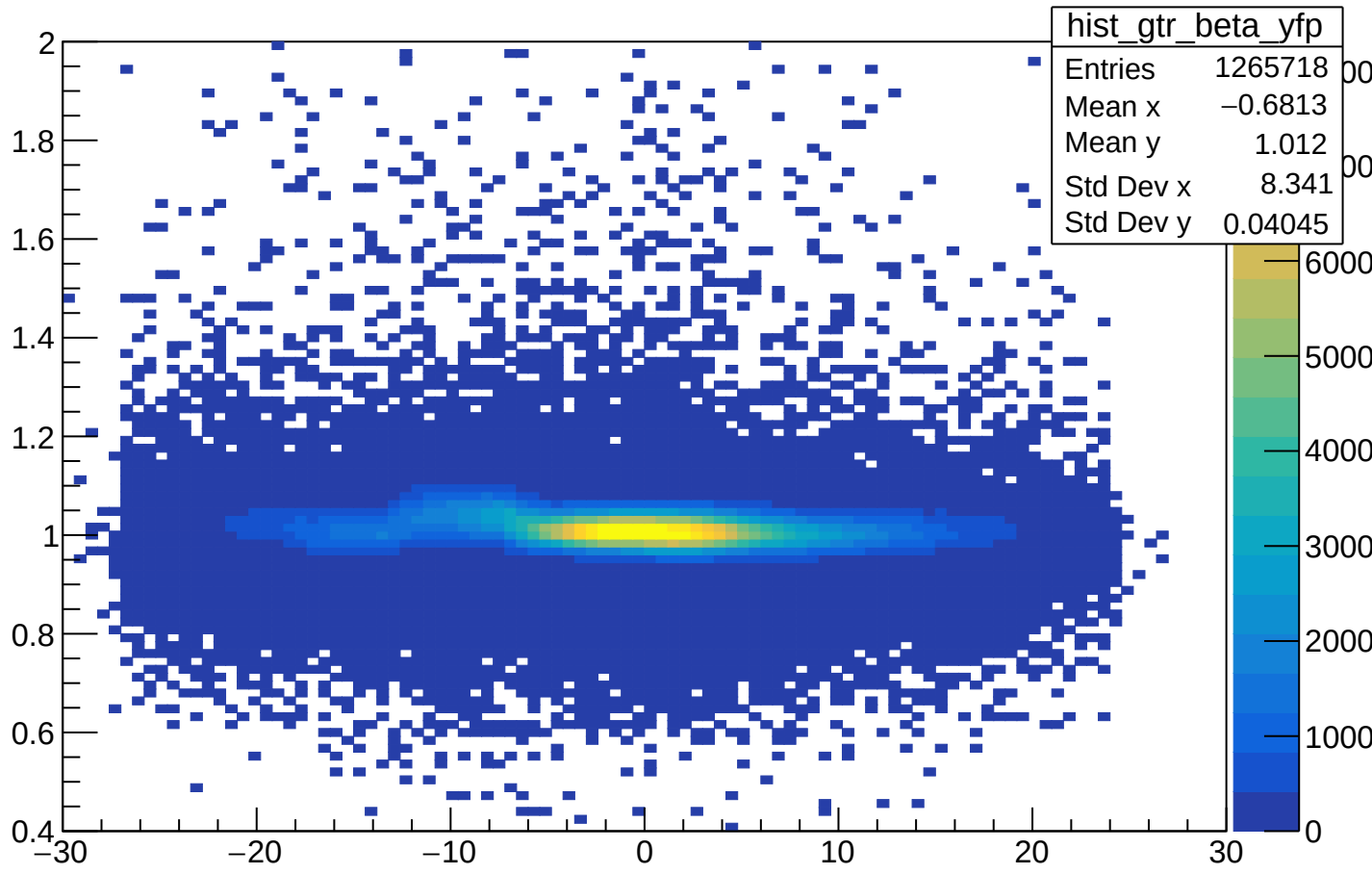

etottracknorm
hist_etottracknorm
Entries 1265718
Mean 0.7141
Std Dev 0.4018
x = 0.7
10^5
10^4
10^3
10^2
10
1
0
1
2
3
4
5
6
7
8

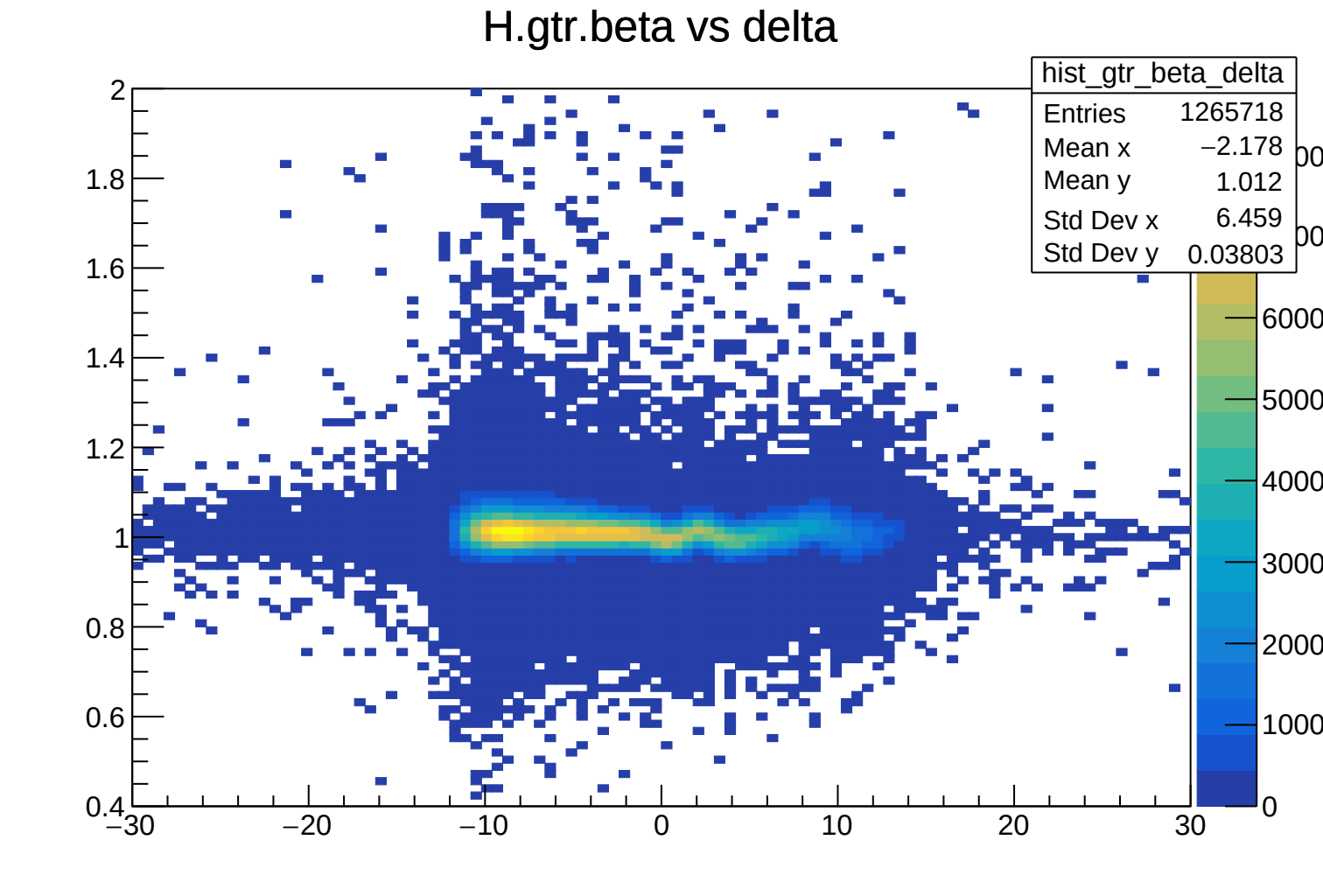

x = 0.7
npeSum
hist_npeSum
Entries 1265718
Mean 10.09
Std Dev 5.828
10^5
10^4
10^3
10^2
10
0
10
20
30
40
50
60
70

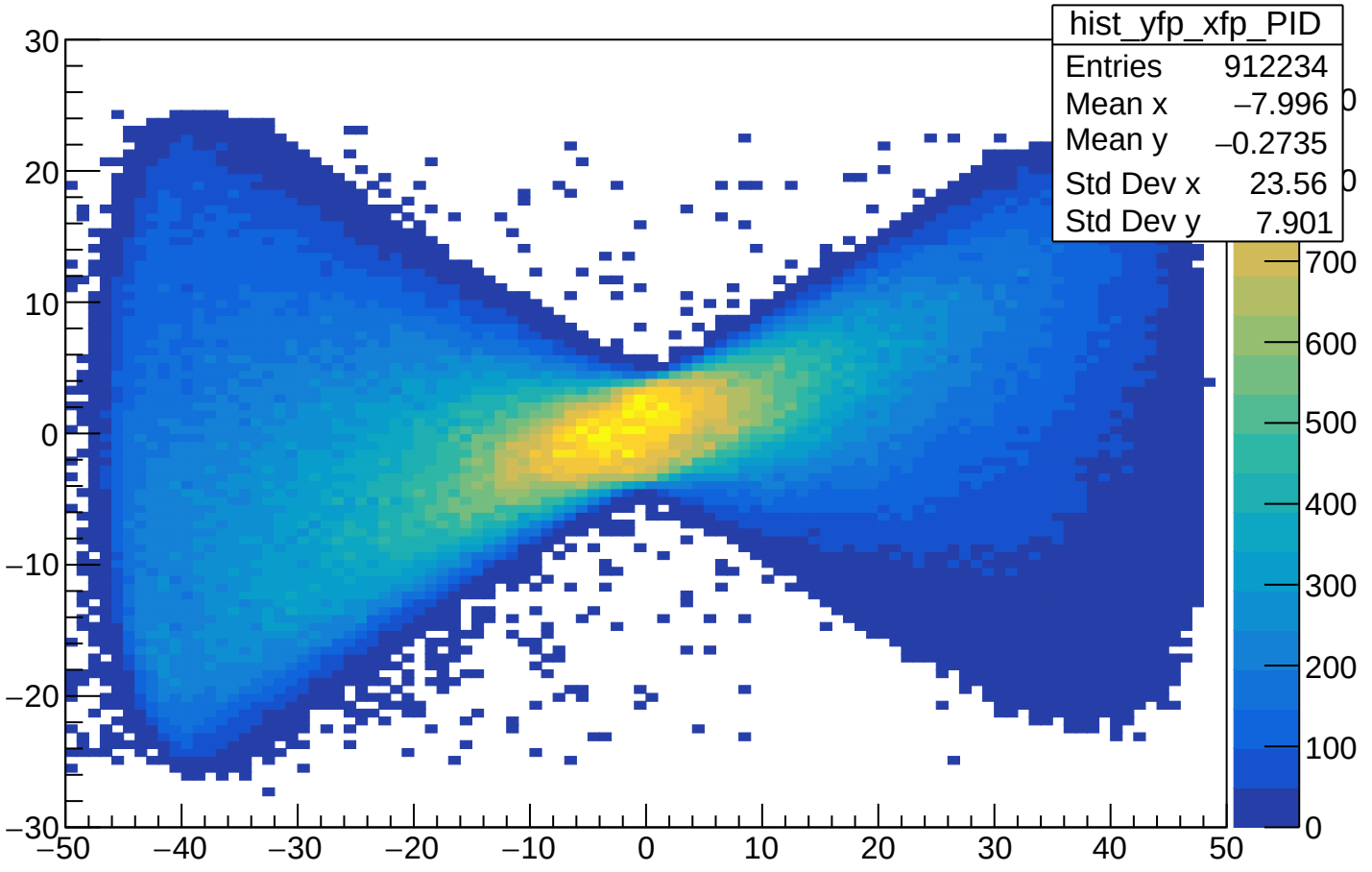

delta
hist_delta
Entries 1265718
Mean −2.192
Std Dev 6.467
x = -8
x = 8
10^4
10^3
10^2
10
−30
−20
−10
0
10
20
30

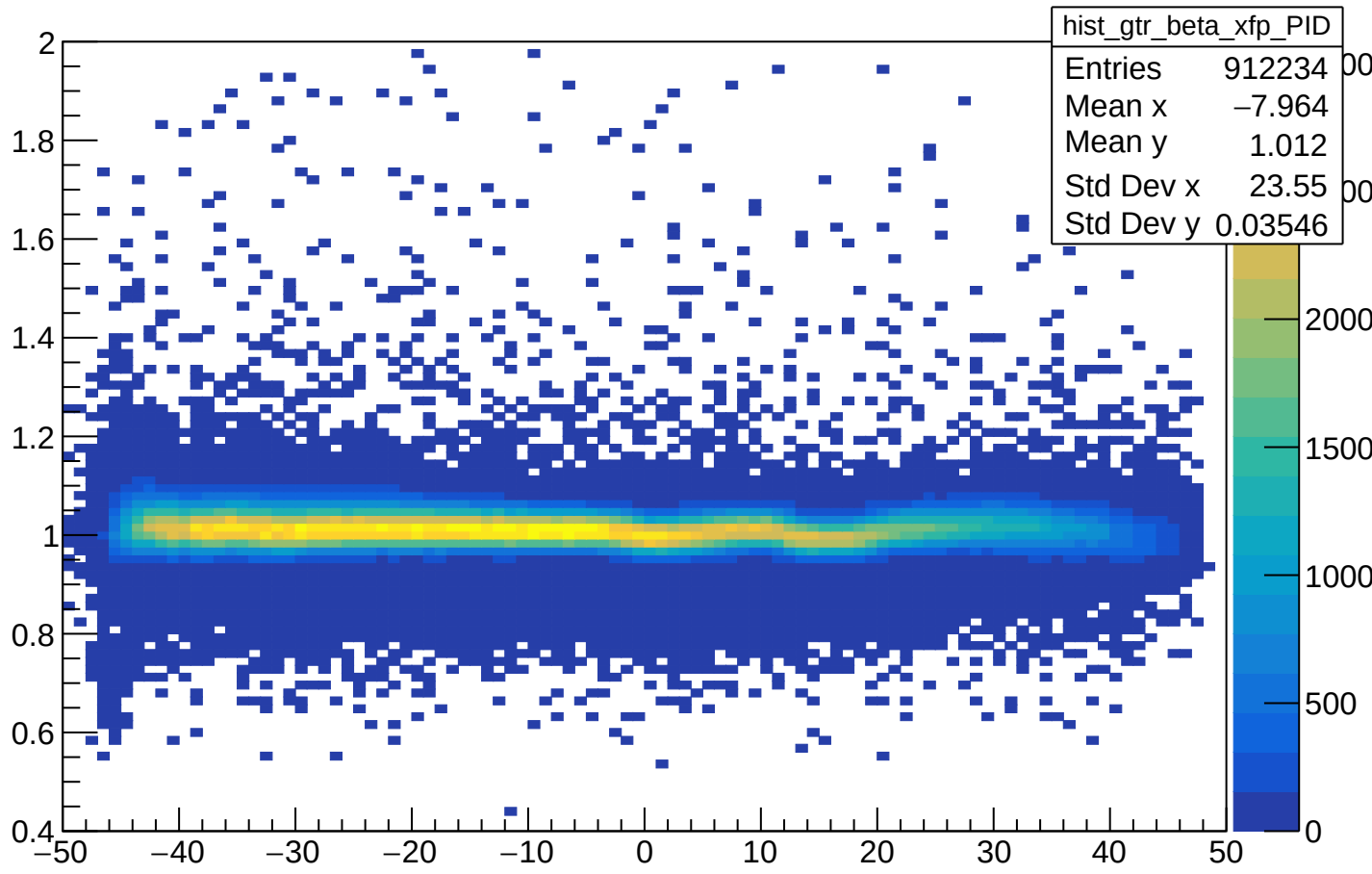

focal plane
hist_yfp_xfp
Entries 1265718
Mean x −9.468
Mean y −0.6902
Std Dev x 23.77
Std Dev y 8.39
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
600
400
200
0

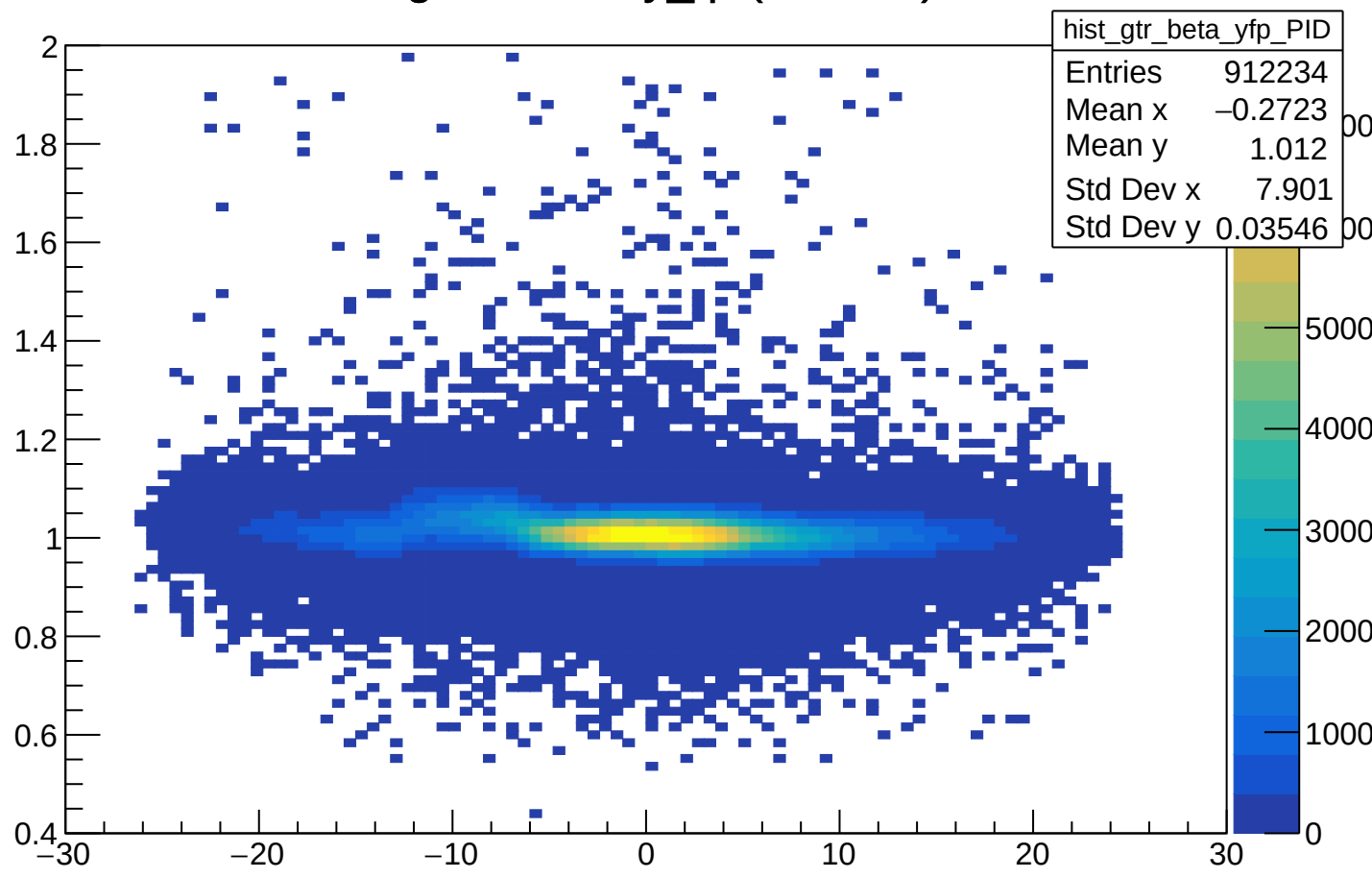

H.gtr.beta vs x_fp
hist_gtr_beta_xfp
Entries 1265718
Mean x −9.321
Mean y 1.012
Std Dev x 23.72
Std Dev y 0.04
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−50
−40
−30
−20
−10
0
10
20
30
40
50
2500
2000
1500
1000
500
0

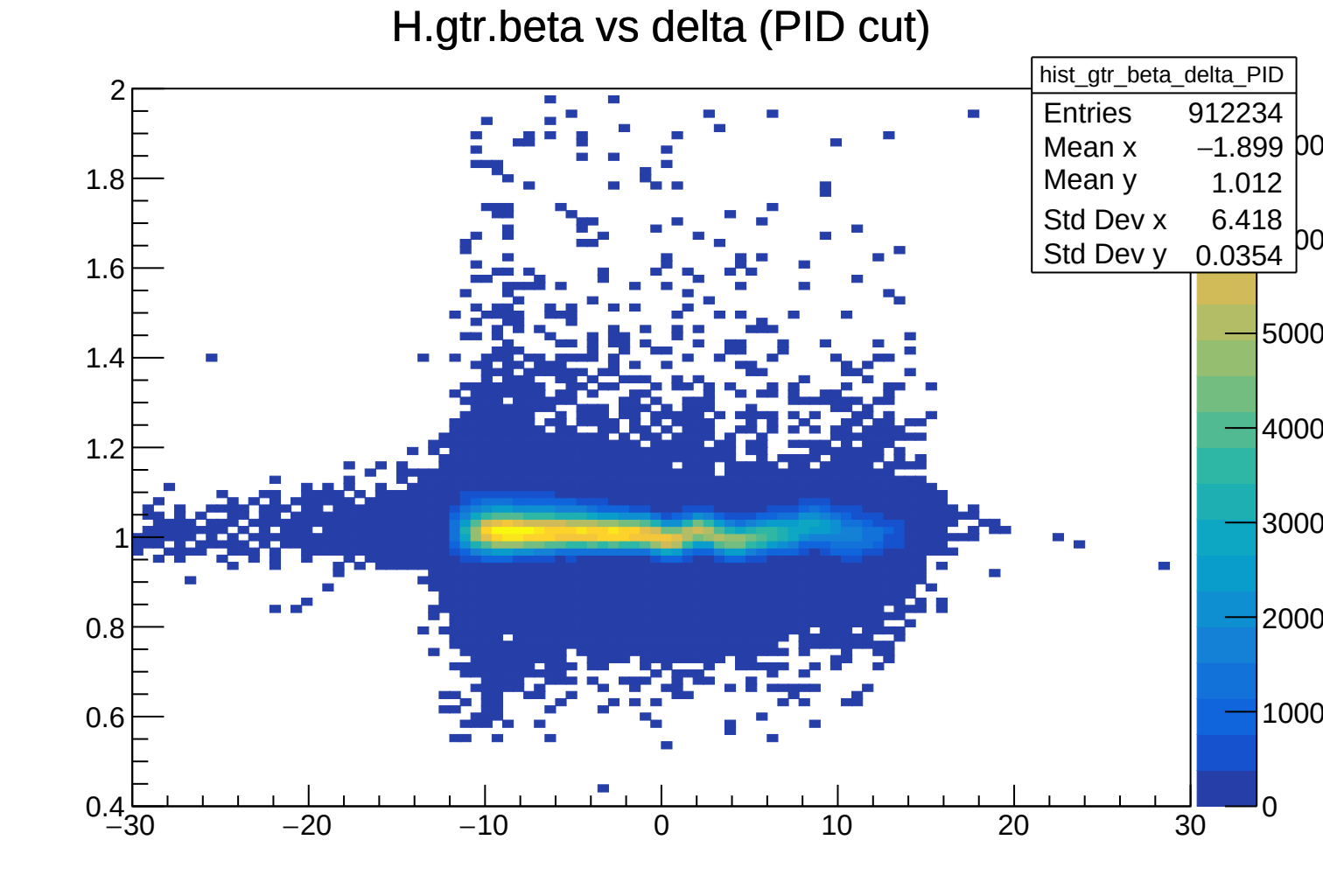

H.gtr.beta vs y_fp
hist_gtr_beta_yfp
Entries 1265718
Mean x −0.6813
Mean y 1.012
Std Dev x 8.341
Std Dev y 0.04045
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
6000
5000
4000
3000
2000
1000
0

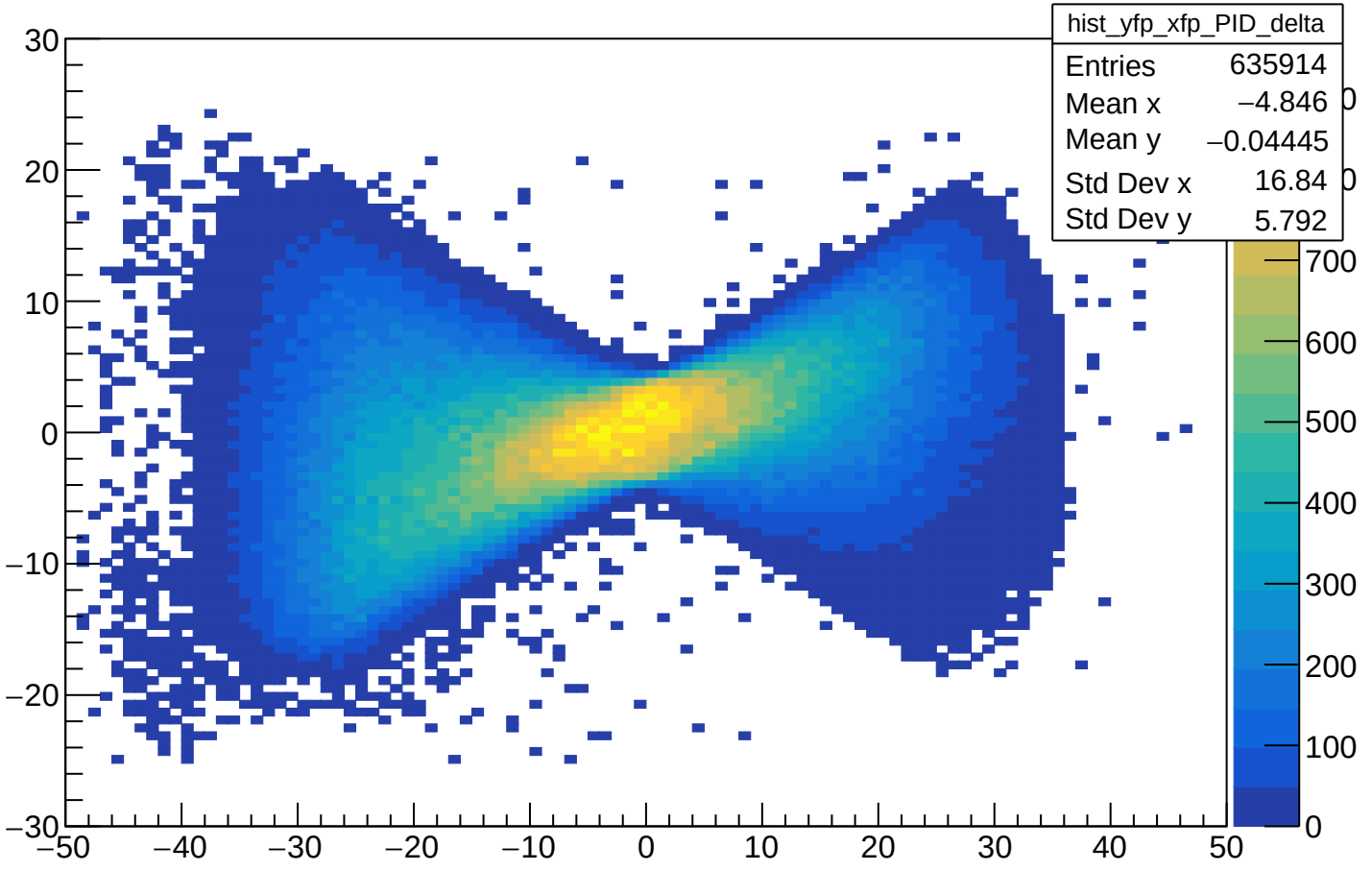

H.gtr.beta vs delta
hist_gtr_beta_delta
Entries 1265718
Mean x −2.178
Mean y 1.012
Std Dev x 6.459
Std Dev y 0.03803
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
6000
5000
4000
3000
2000
1000
0

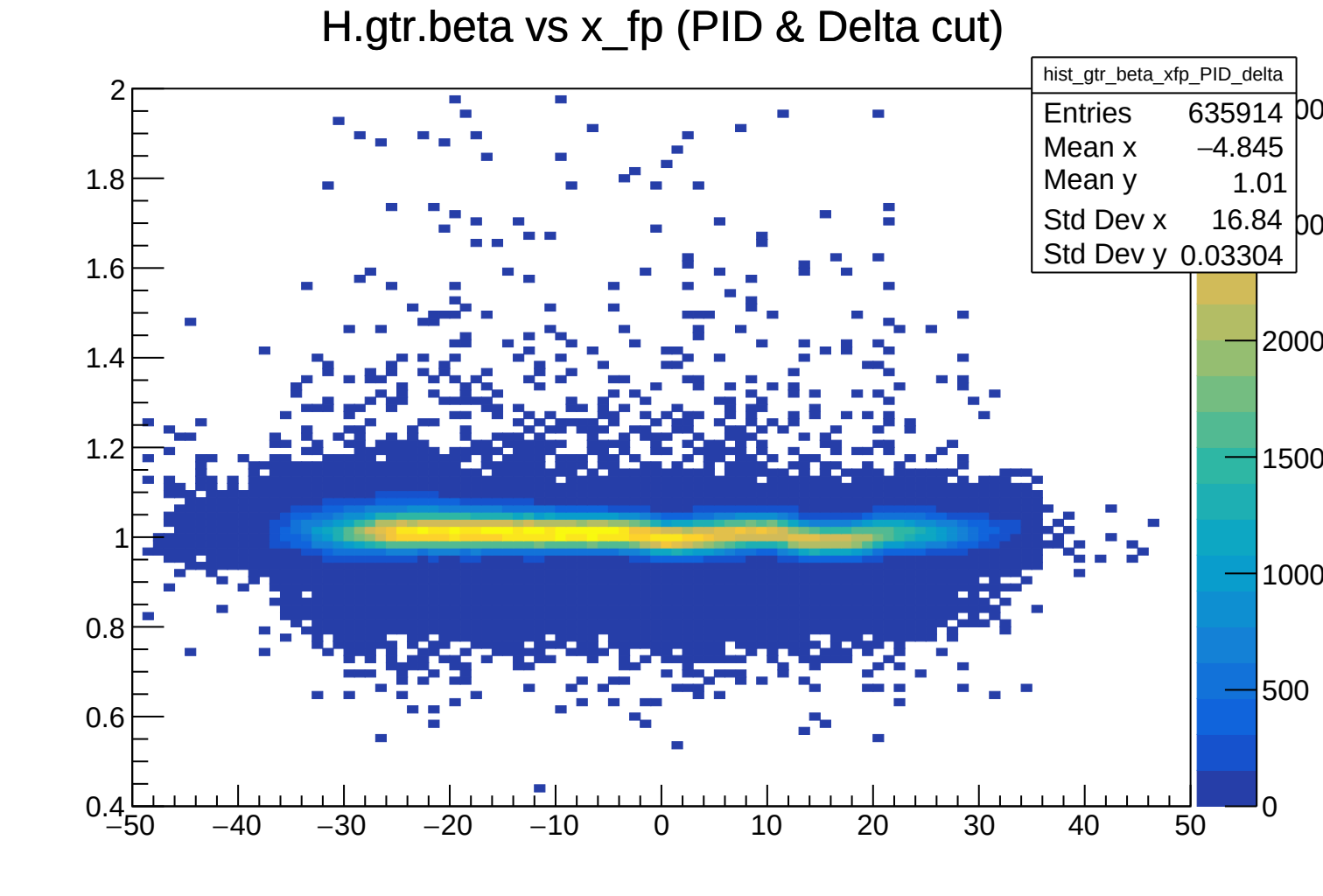

focal plane (PID cut)
hist_yfp_xfp_PID
Entries 912234
Mean x −7.996
Mean y −0.2735
Std Dev x 23.56
Std Dev y 7.901
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
700
600
500
400
300
200
100
0

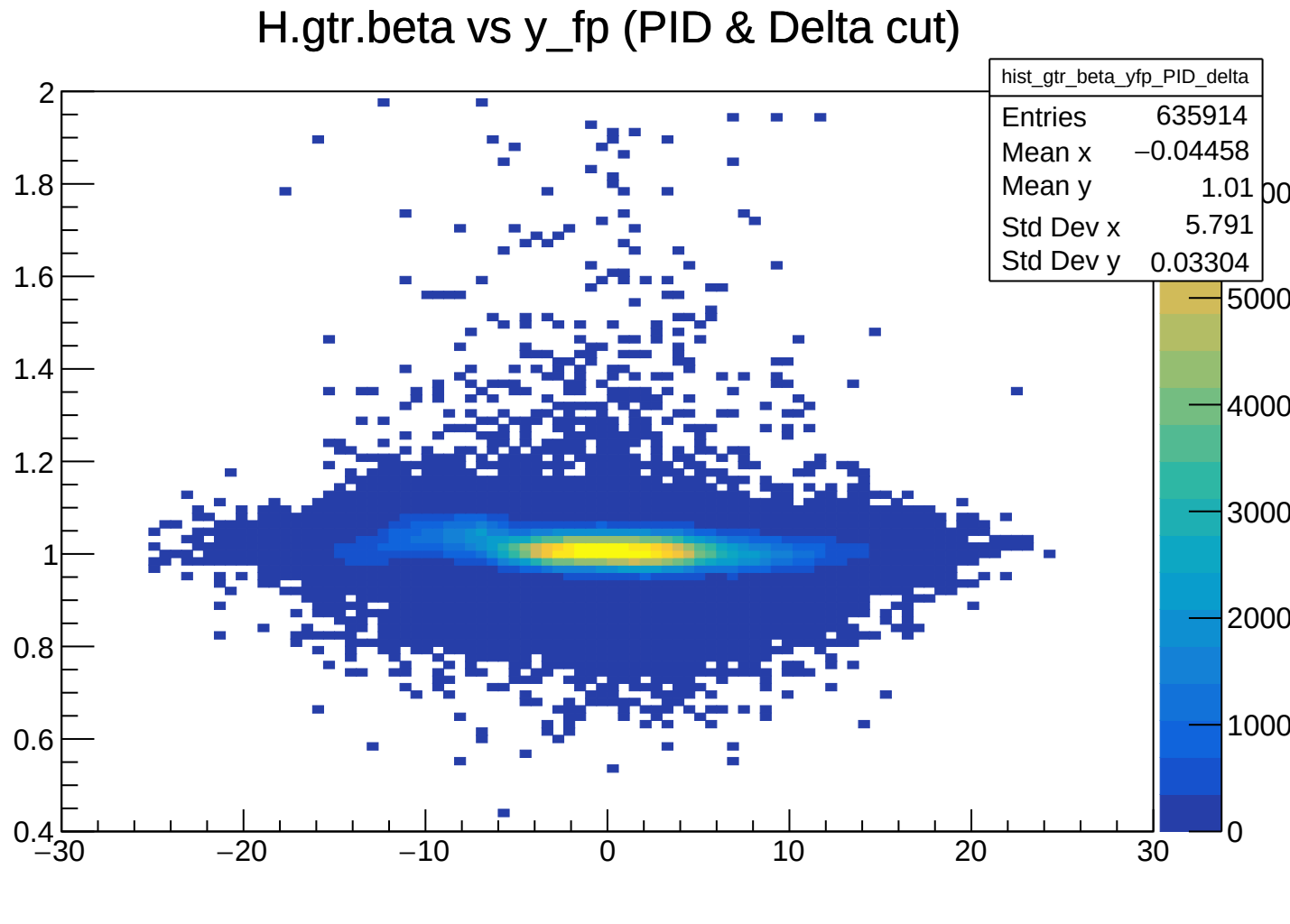

H.gtr.beta vs x_fp (PID cut)
hist_gtr_beta_xfp_PID
Entries 912234
Mean x −7.964
Mean y 1.012
Std Dev x 23.55
Std Dev y 0.03546
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−50
−40
−30
−20
−10
0
10
20
30
40
50
2000
1500
1000
500
0

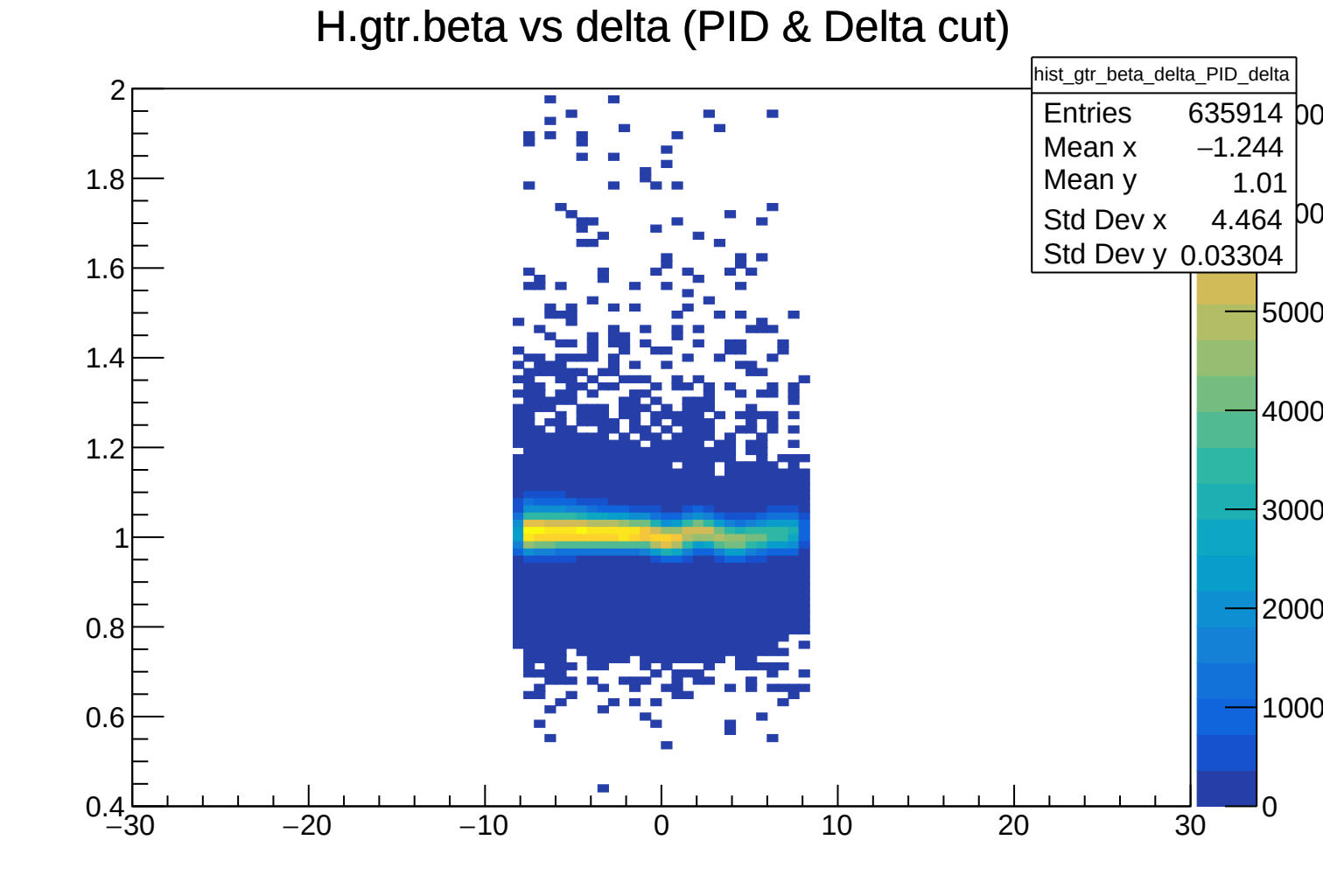

H.gtr.beta vs y_fp (PID cut)
hist_gtr_beta_yfp_PID
Entries 912234
Mean x −0.2723
Mean y 1.012
Std Dev x 7.901
Std Dev y 0.03546
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
5000
4000
3000
2000
1000
0


H.gtr.beta vs delta (PID cut)
hist_gtr_beta_delta_PID
Entries 912234
Mean x −1.899
Mean y 1.012
Std Dev x 6.418
Std Dev y 0.0354
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
5000
4000
3000
2000
1000
0


focal plane (PID & Delta cut)
hist_yfp_xfp_PID_delta
Entries 635914
Mean x −4.846
Mean y −0.04445
Std Dev x 16.84
Std Dev y 5.792
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
700
600
500
400
300
200
100
0


H.gtr.beta vs x_fp (PID & Delta cut)
hist_gtr_beta_xfp_PID_delta
Entries 635914
Mean x –4.845
Mean y 1.01
Std Dev x 16.84
Std Dev y 0.03304
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
2000
1500
1000
500
0


H.gtr.beta vs y_fp (PID & Delta cut)
hist_gtr_beta_yfp_PID_delta
Entries 635914
Mean x −0.04458
Mean y 1.01
Std Dev x 5.791
Std Dev y 0.03304
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
5000
4000
3000
2000
1000
0


H.gtr.beta vs delta (PID & Delta cut)
hist_gtr_beta_delta_PID_delta
Entries 635914
Mean x −1.244
Mean y 1.01
Std Dev x 4.464
Std Dev y 0.03304
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
5000
4000
3000
2000
1000
0