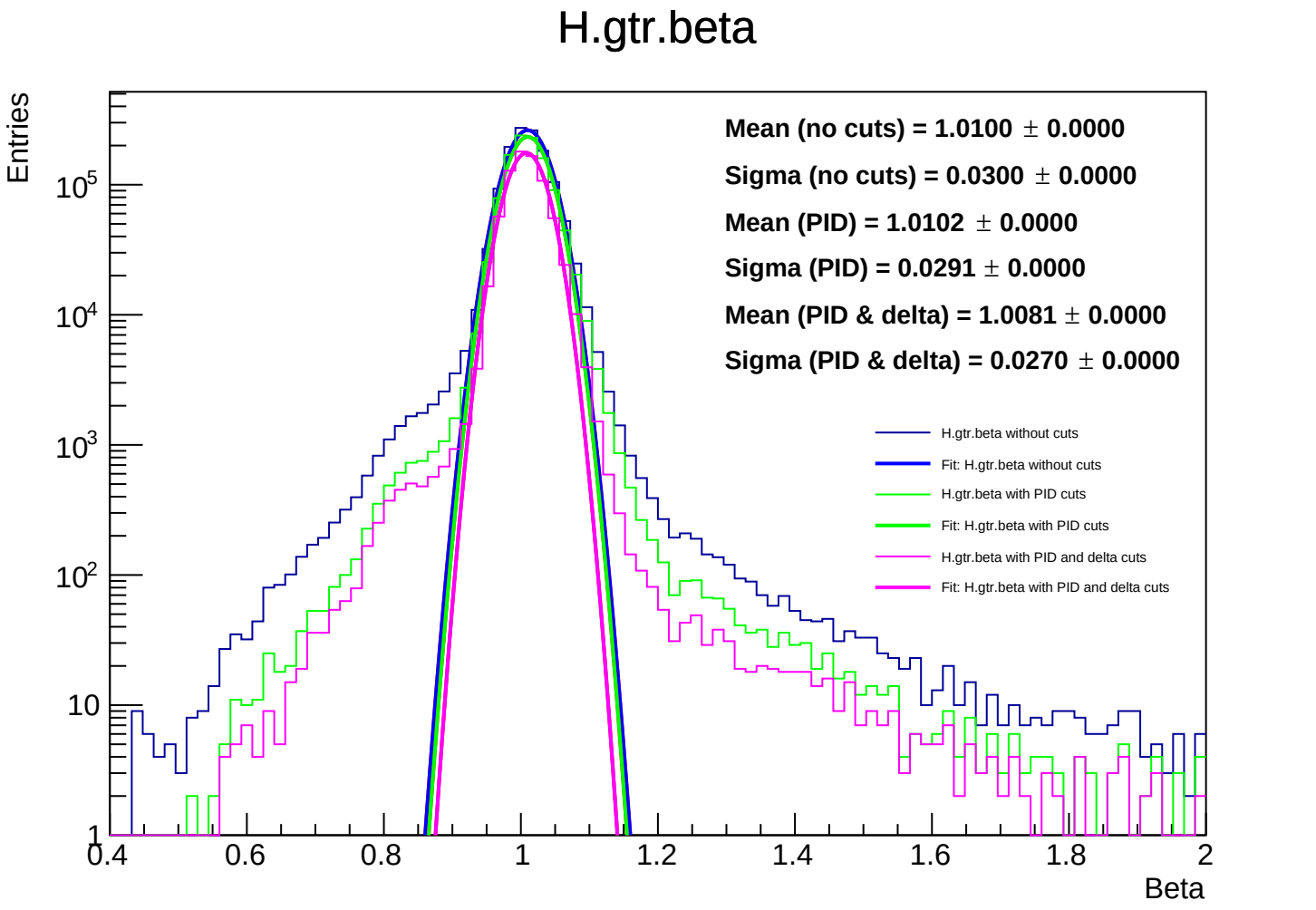
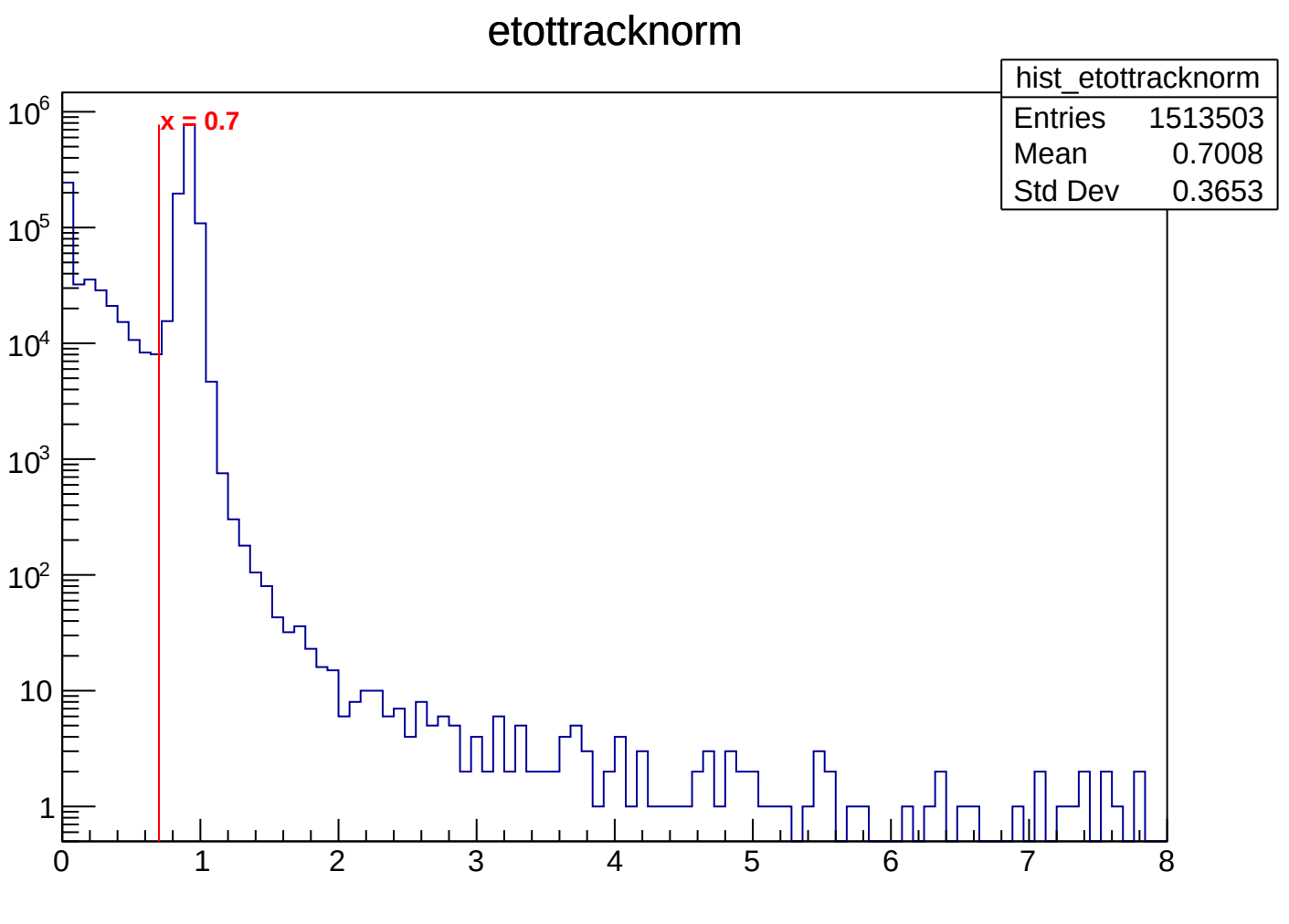
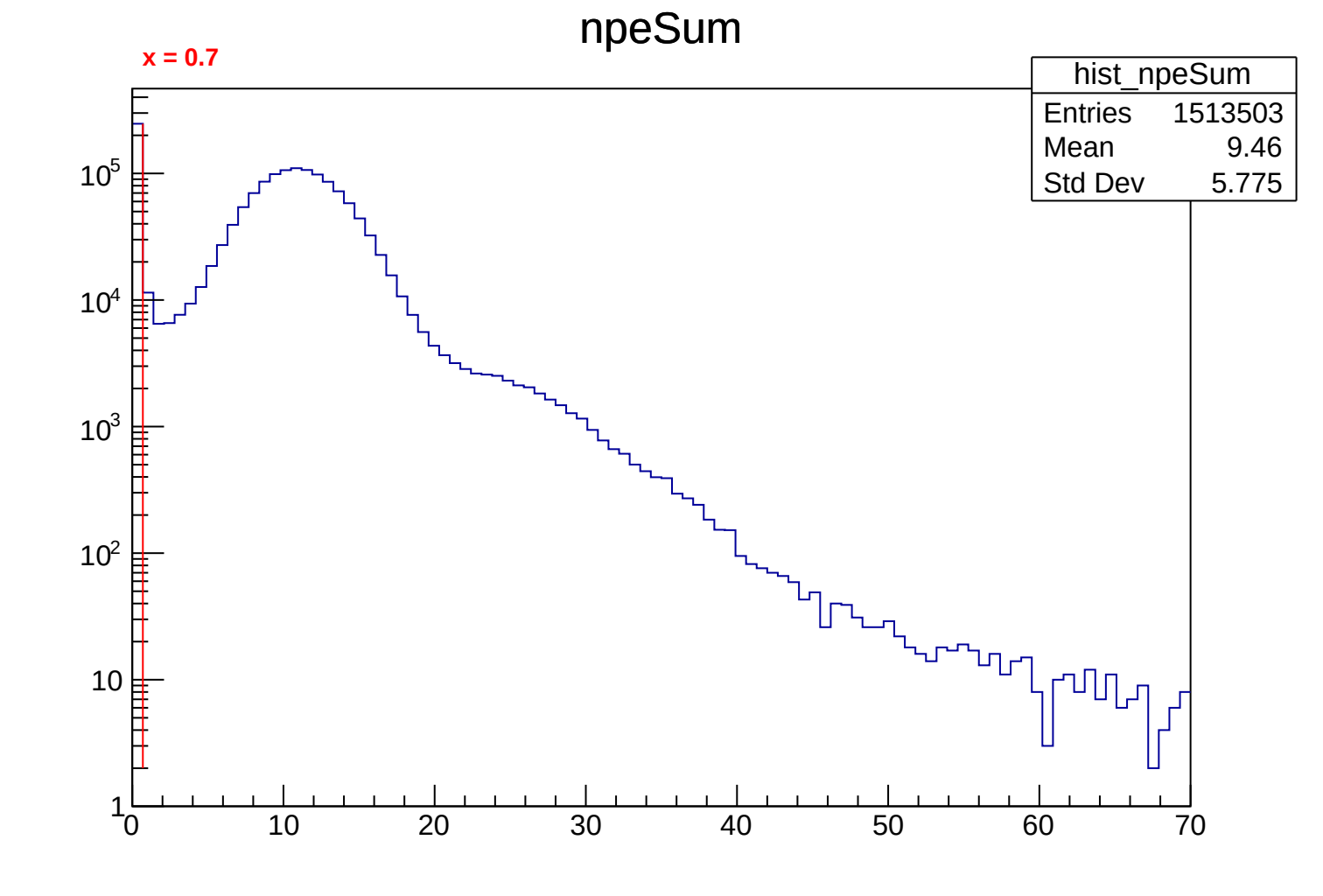
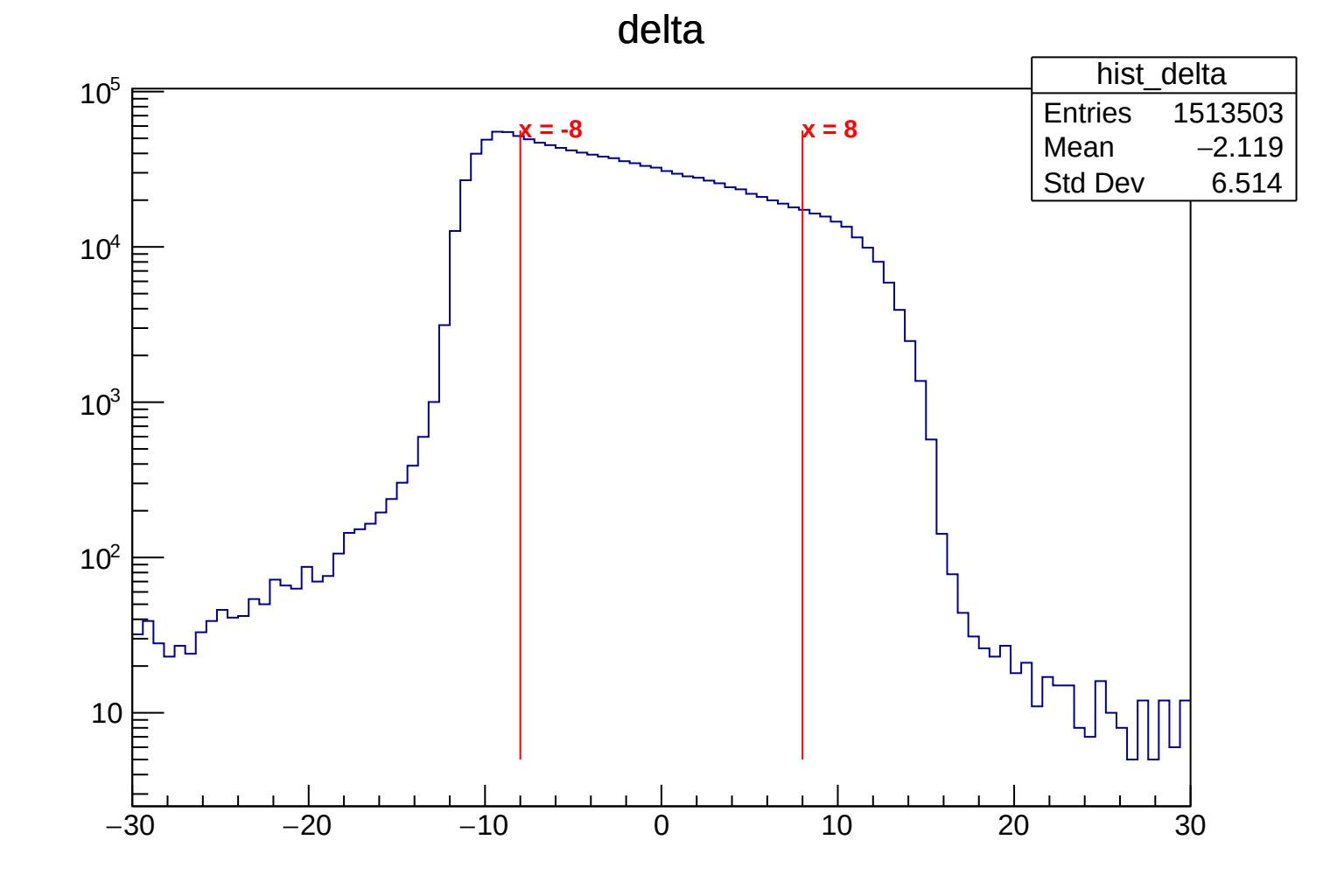
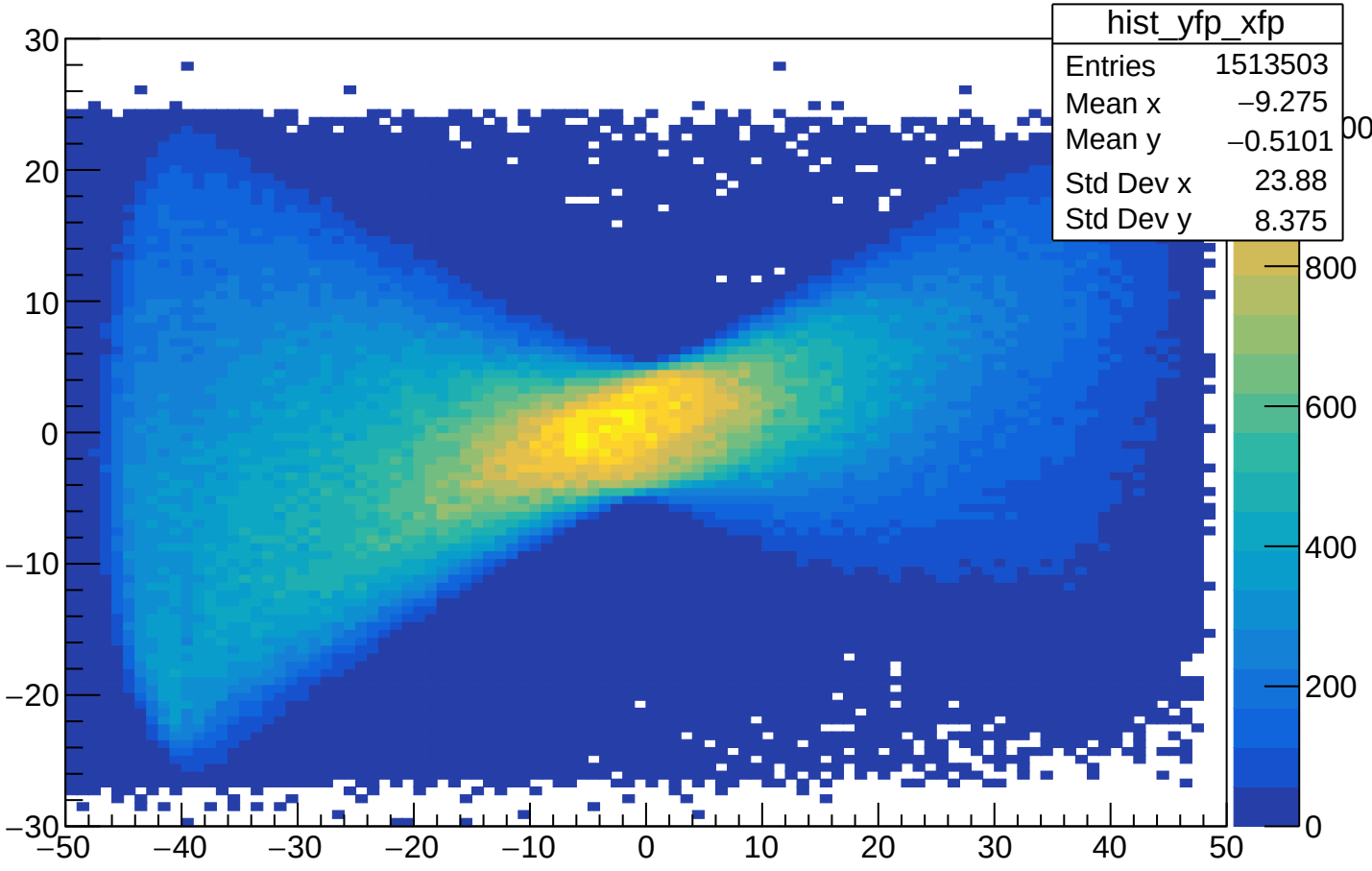
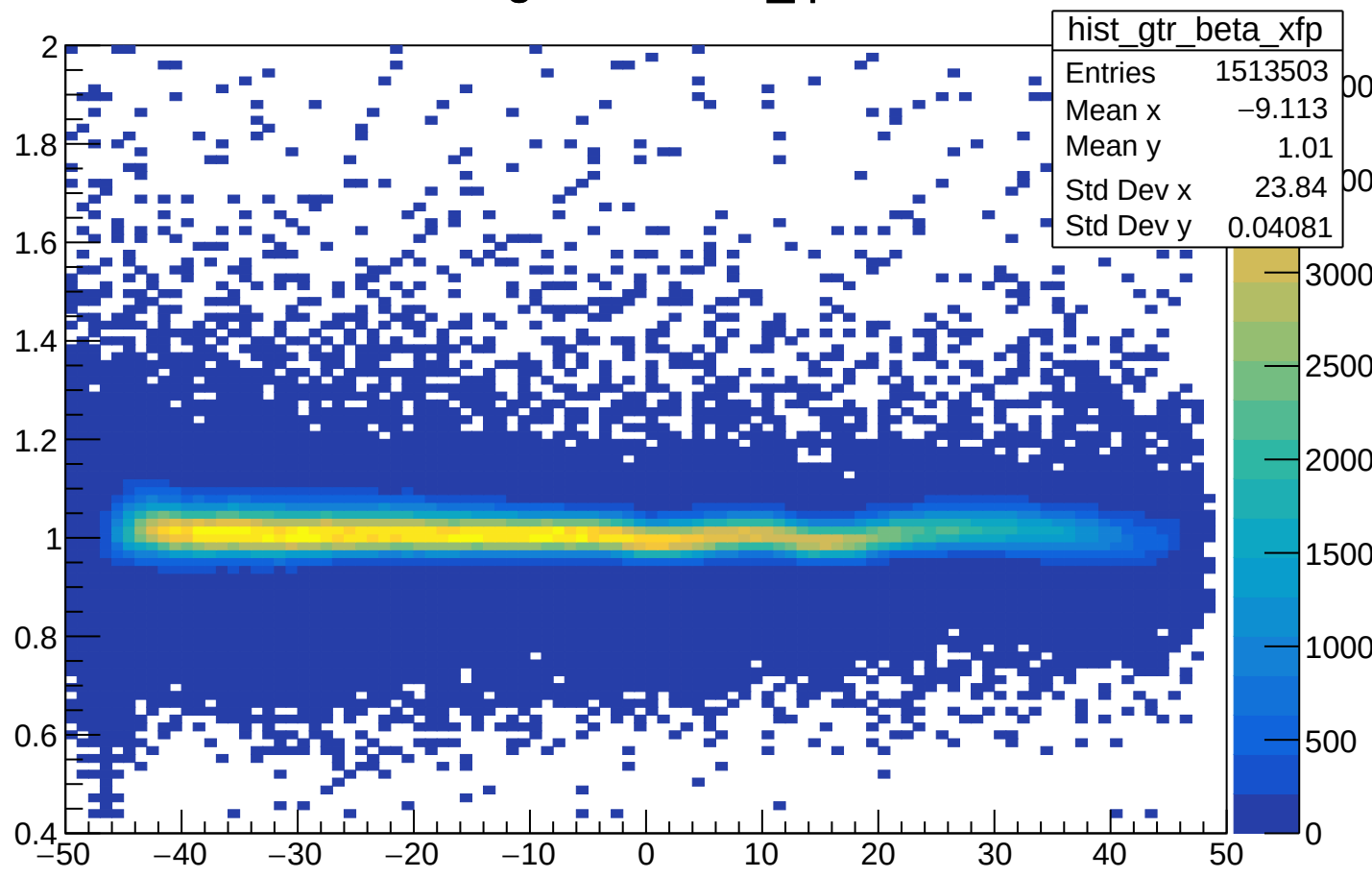

H.gtr.beta
Entries
Beta
Mean (no cuts) = 1.0100 ± 0.0000
Sigma (no cuts) = 0.0300 ± 0.0000
Mean (PID) = 1.0102 ± 0.0000
Sigma (PID) = 0.0291 ± 0.0000
Mean (PID & delta) = 1.0081 ± 0.0000
Sigma (PID & delta) = 0.0270 ± 0.0000
H.gtr.beta without cuts
Fit: H.gtr.beta without cuts
H.gtr.beta with PID cuts
Fit: H.gtr.beta with PID cuts
H.gtr.beta with PID and delta cuts
Fit: H.gtr.beta with PID and delta cuts

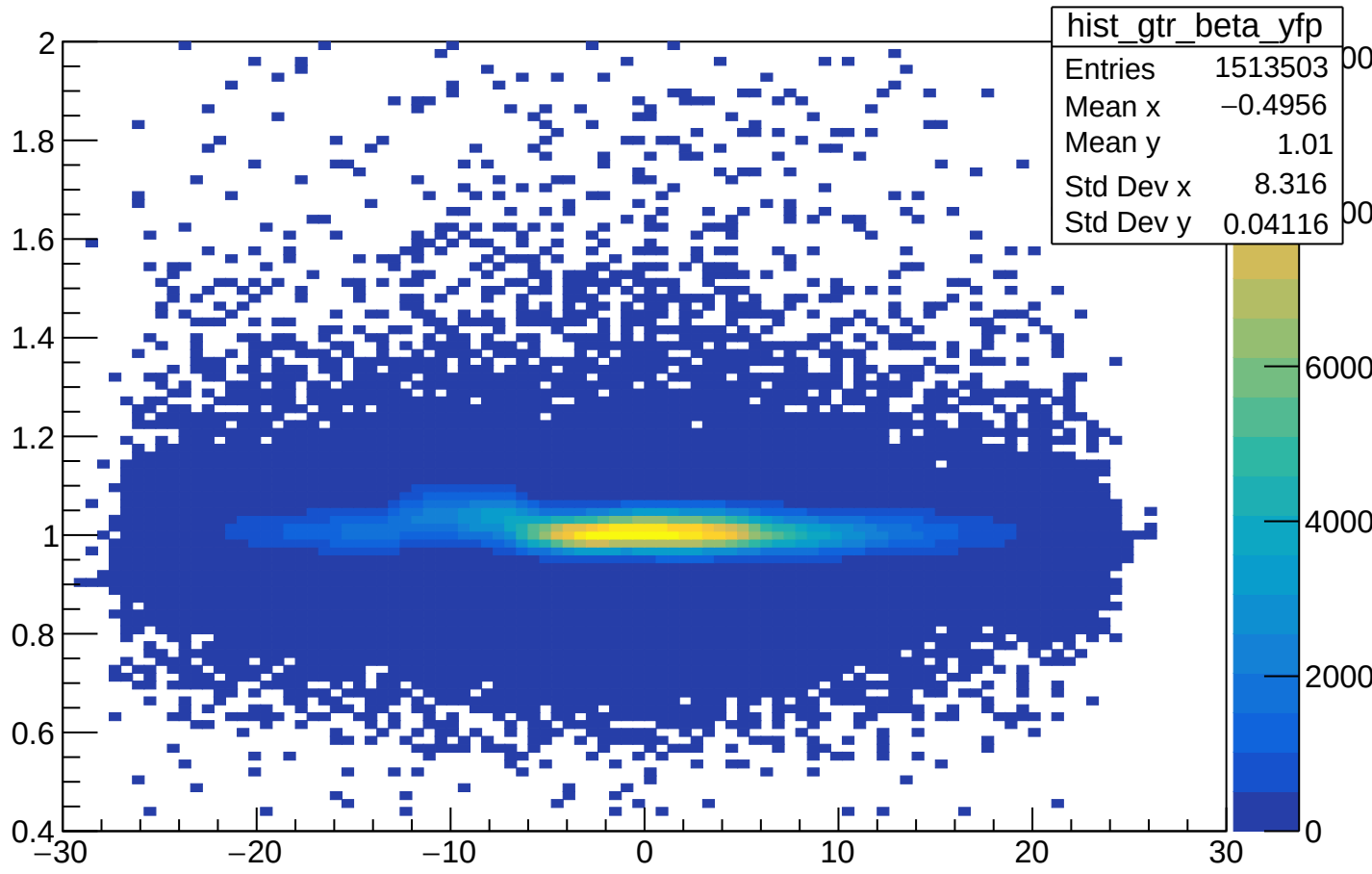

etottracknorm
hist_etottracknorm
Entries 1513503
Mean 0.7008
Std Dev 0.3653
x = 0.7
10^6
10^5
10^4
10^3
10^2
10
1
0
1
2
3
4
5
6
7
8

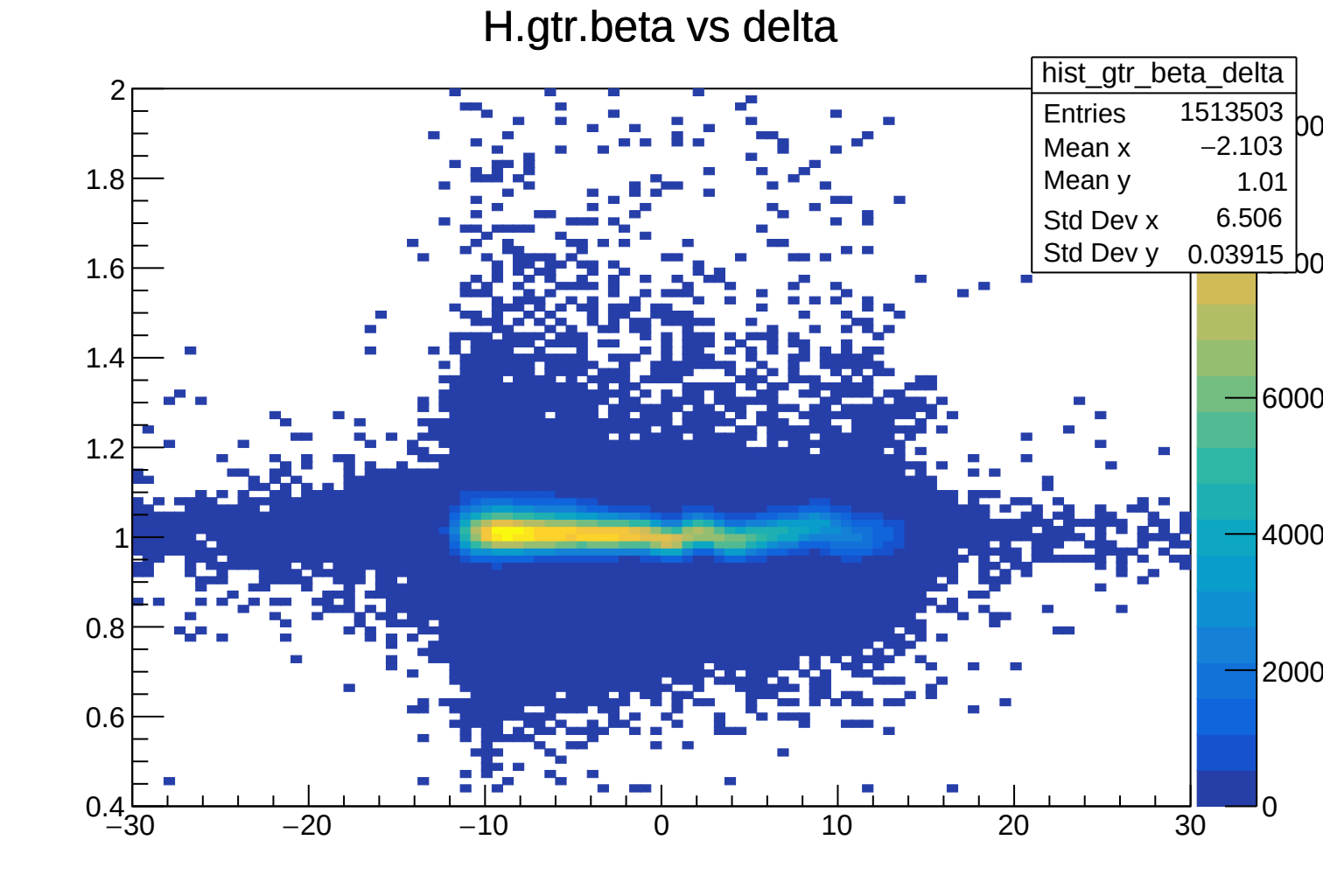

npeSum
x = 0.7
hist_npeSum
Entries 1513503
Mean 9.46
Std Dev 5.775
10^5
10^4
10^3
10^2
10
1
0
10
20
30
40
50
60
70

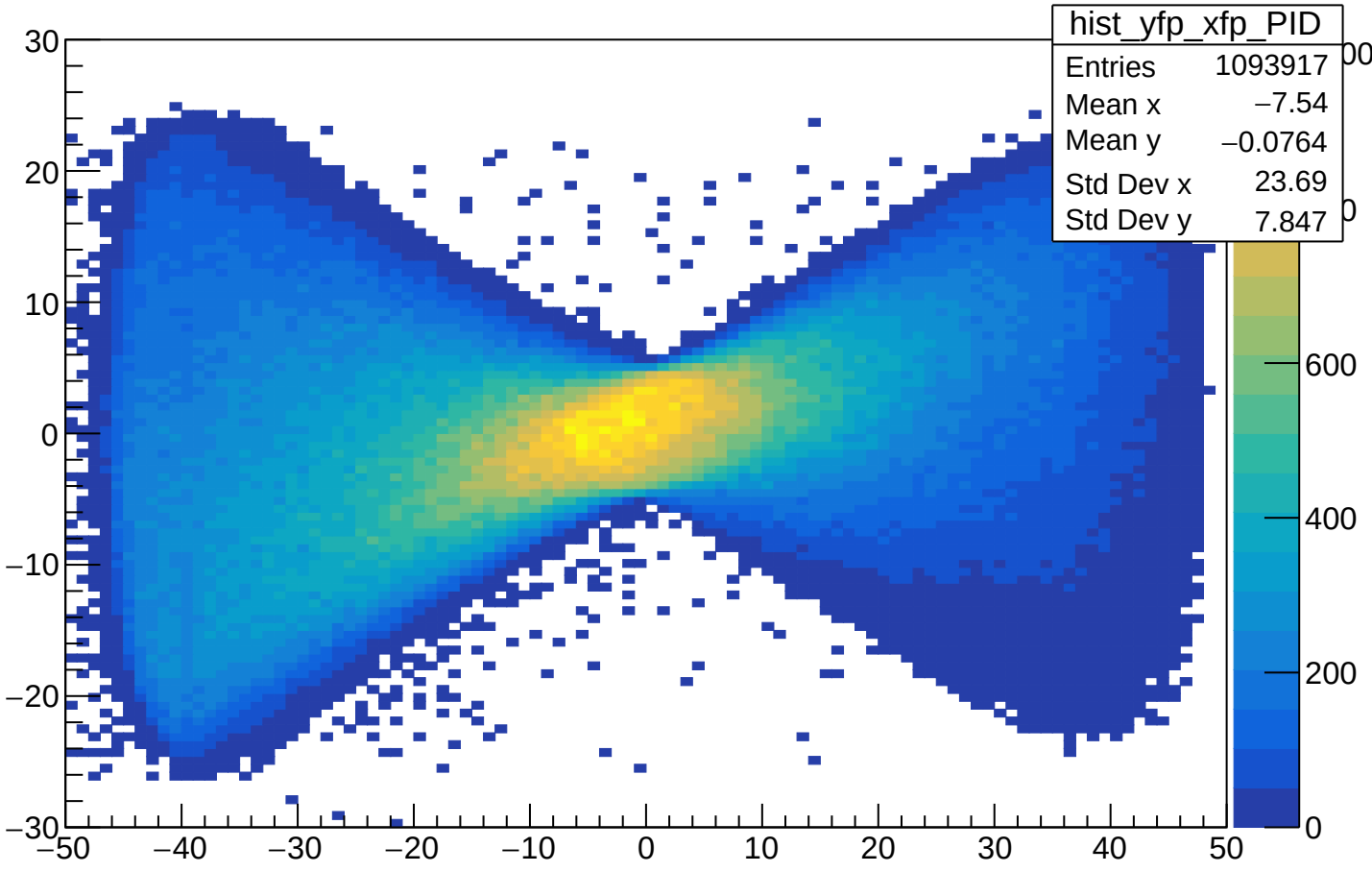

delta
hist_delta
Entries 1513503
Mean −2.119
Std Dev 6.514
x = -8
x = 8
10^5
10^4
10^3
10^2
10
−30
−20
−10
0
10
20
30

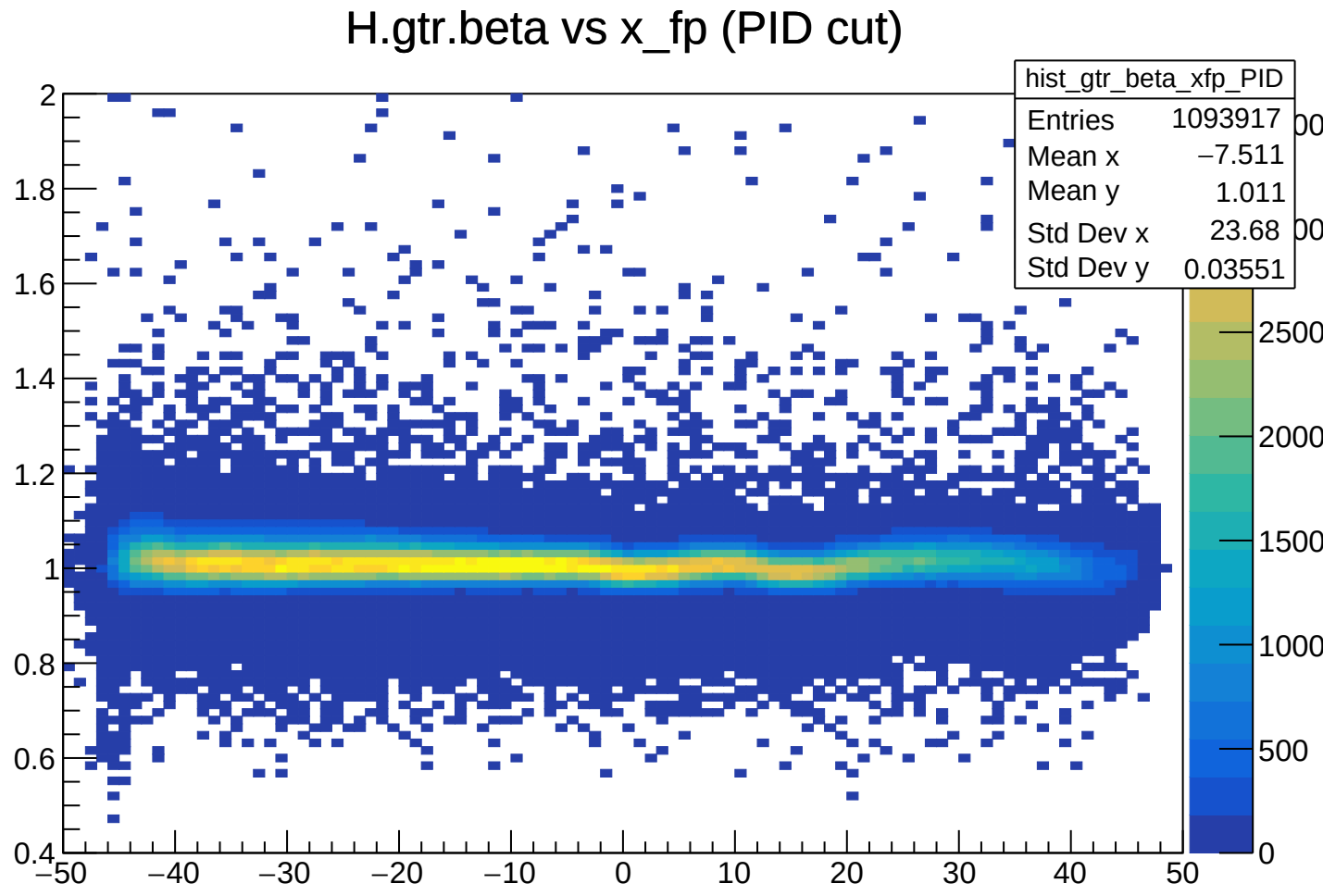

focal plane
hist_yfp_xfp
Entries 1513503
Mean x −9.275
Mean y −0.5101
Std Dev x 23.88
Std Dev y 8.375
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
800
600
400
200
0

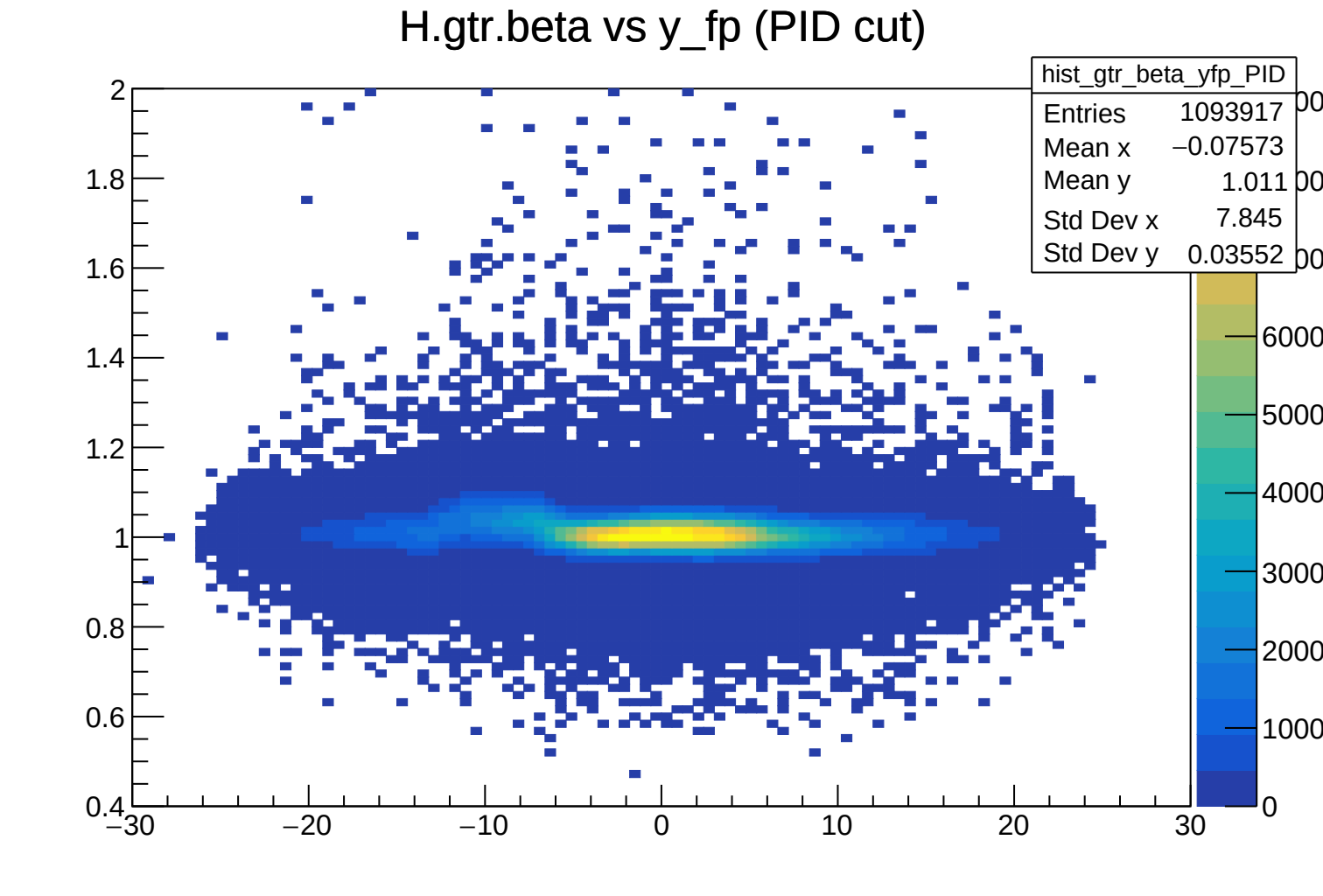

H.gtr.beta vs x_fp
hist_gtr_beta_xfp
Entries 1513503
Mean x −9.113
Mean y 1.01
Std Dev x 23.84
Std Dev y 0.04081
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−50
−40
−30
−20
−10
0
10
20
30
40
50
3000
2500
2000
1500
1000
500
0

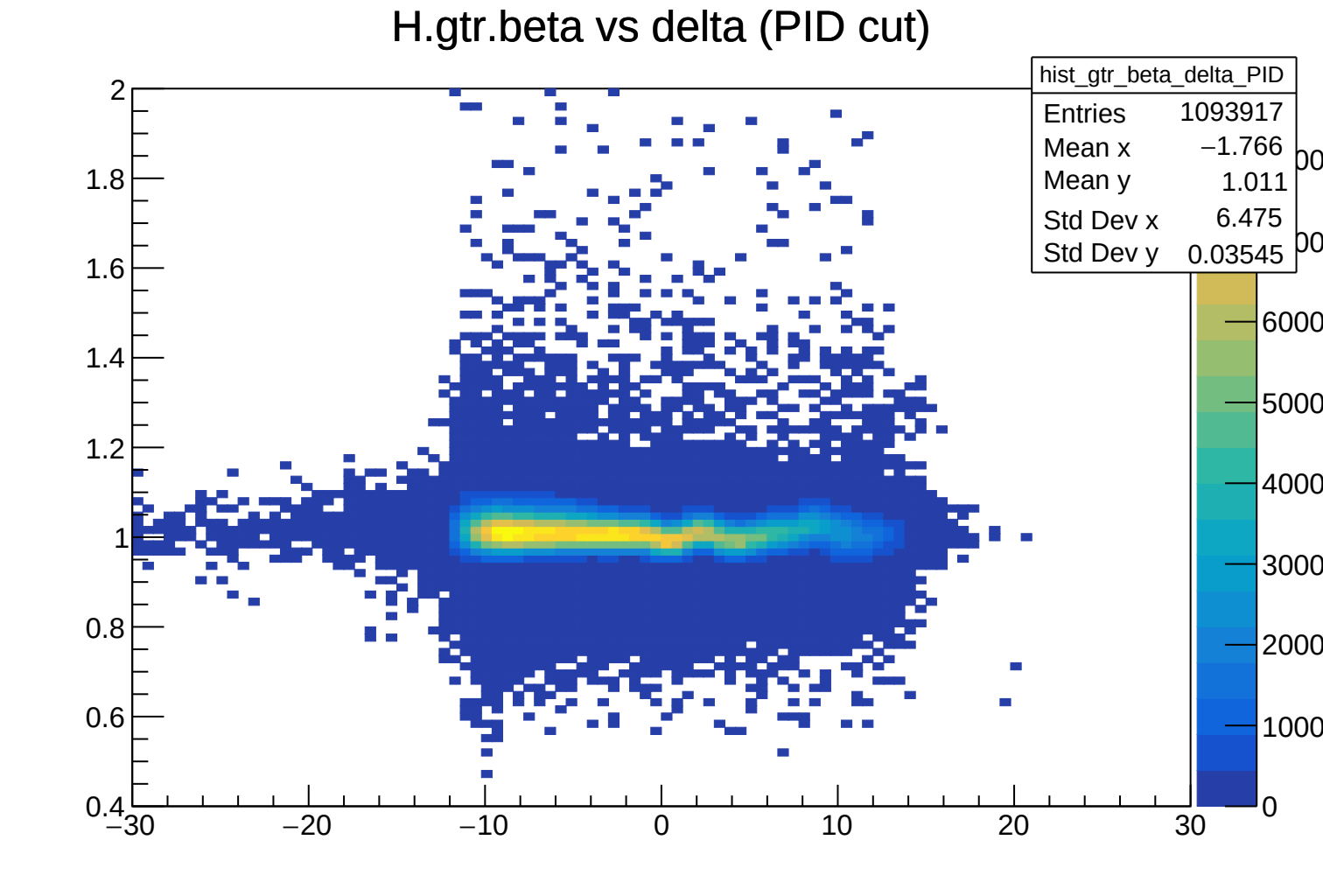

H.gtr.beta vs y_fp
hist_gtr_beta_yfp
Entries 1513503
Mean x −0.4956
Mean y 1.01
Std Dev x 8.316
Std Dev y 0.04116
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
6000
4000
2000
0

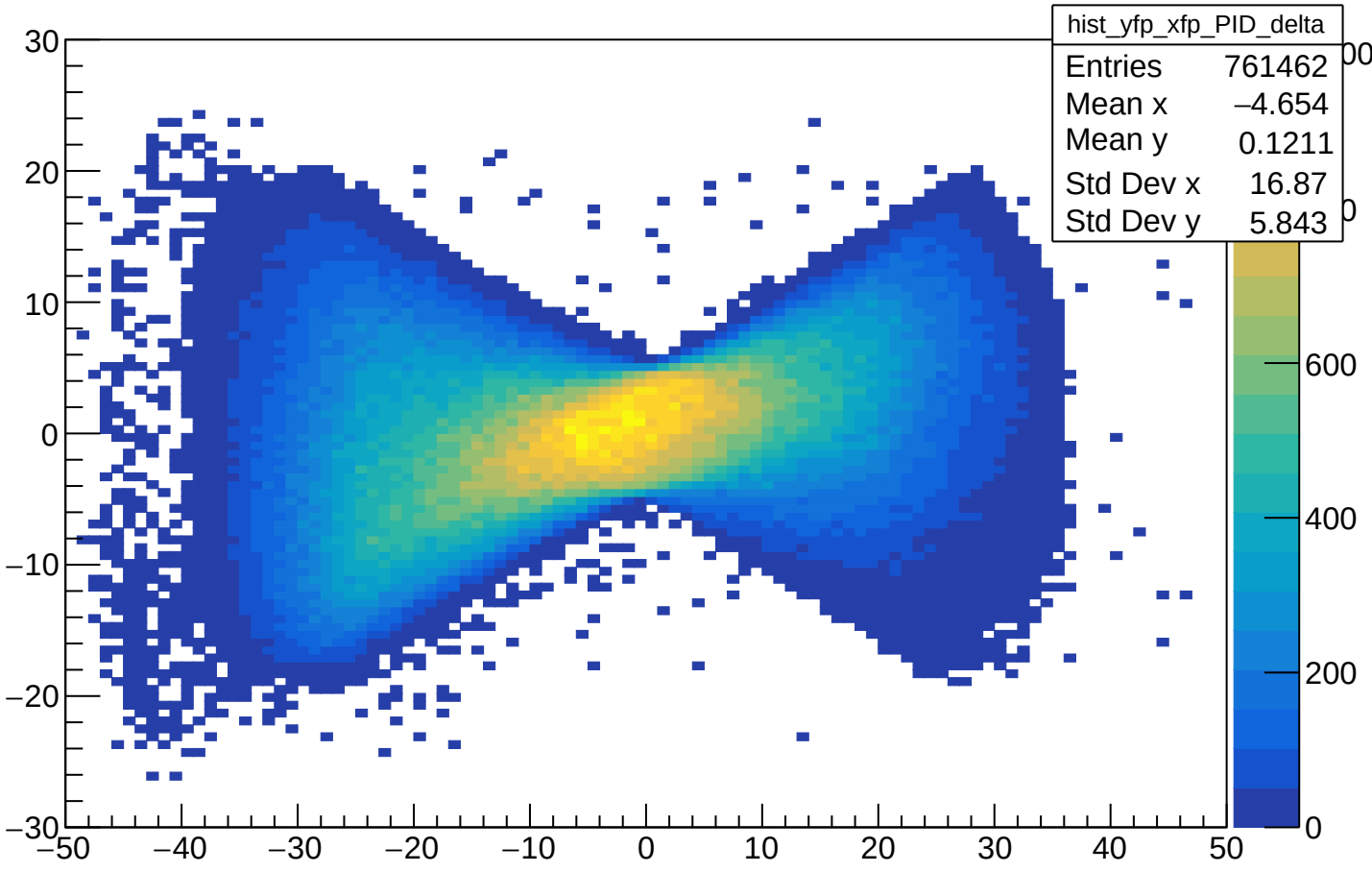

H.gtr.beta vs delta
hist_gtr_beta_delta
Entries 1513503
Mean x −2.103
Mean y 1.01
Std Dev x 6.506
Std Dev y 0.03915
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
6000
4000
2000
0

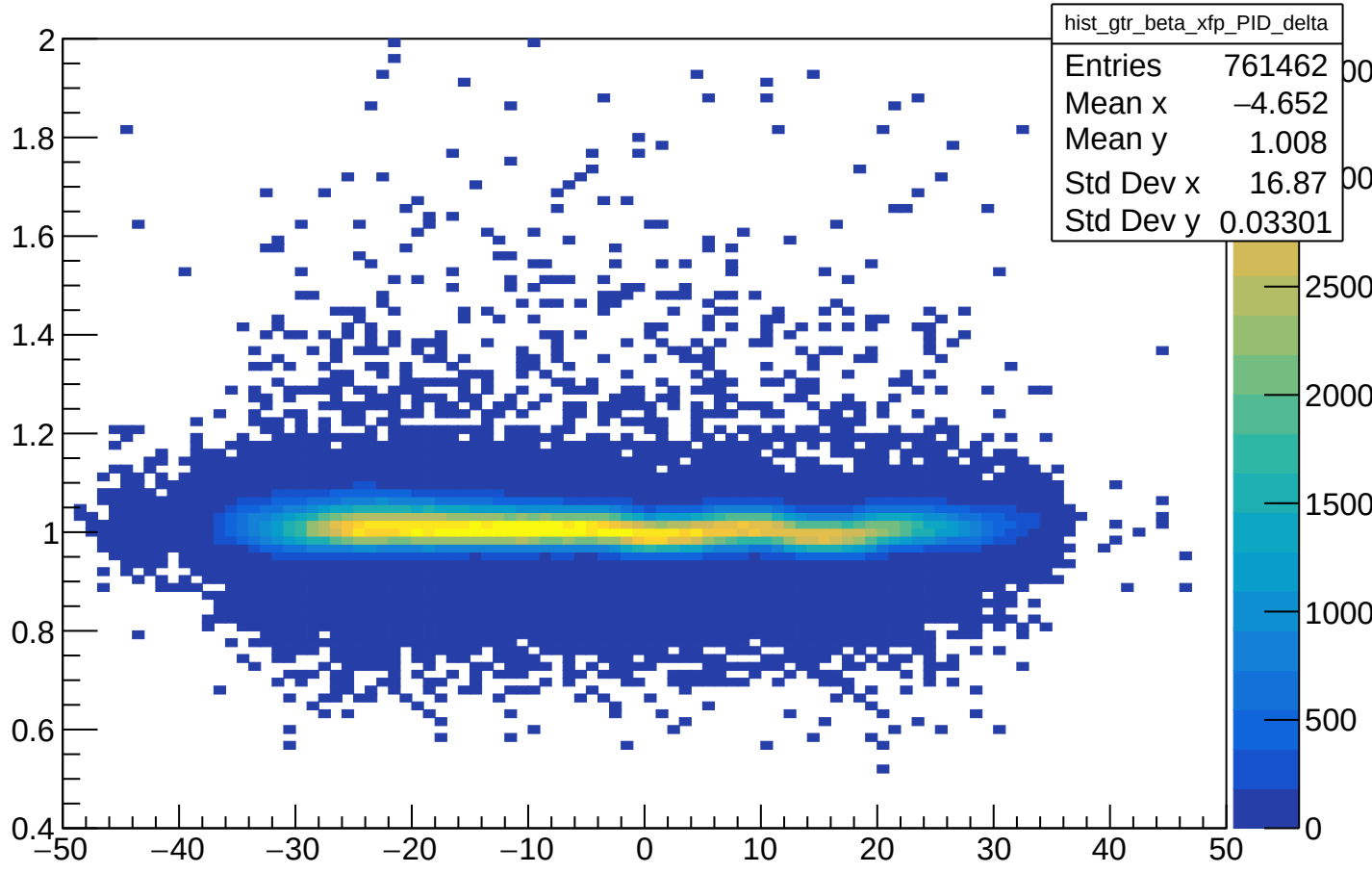

focal plane (PID cut)
hist_yfp_xfp_PID
Entries 1093917
Mean x −7.54
Mean y −0.0764
Std Dev x 23.69
Std Dev y 7.847
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
600
400
200
0

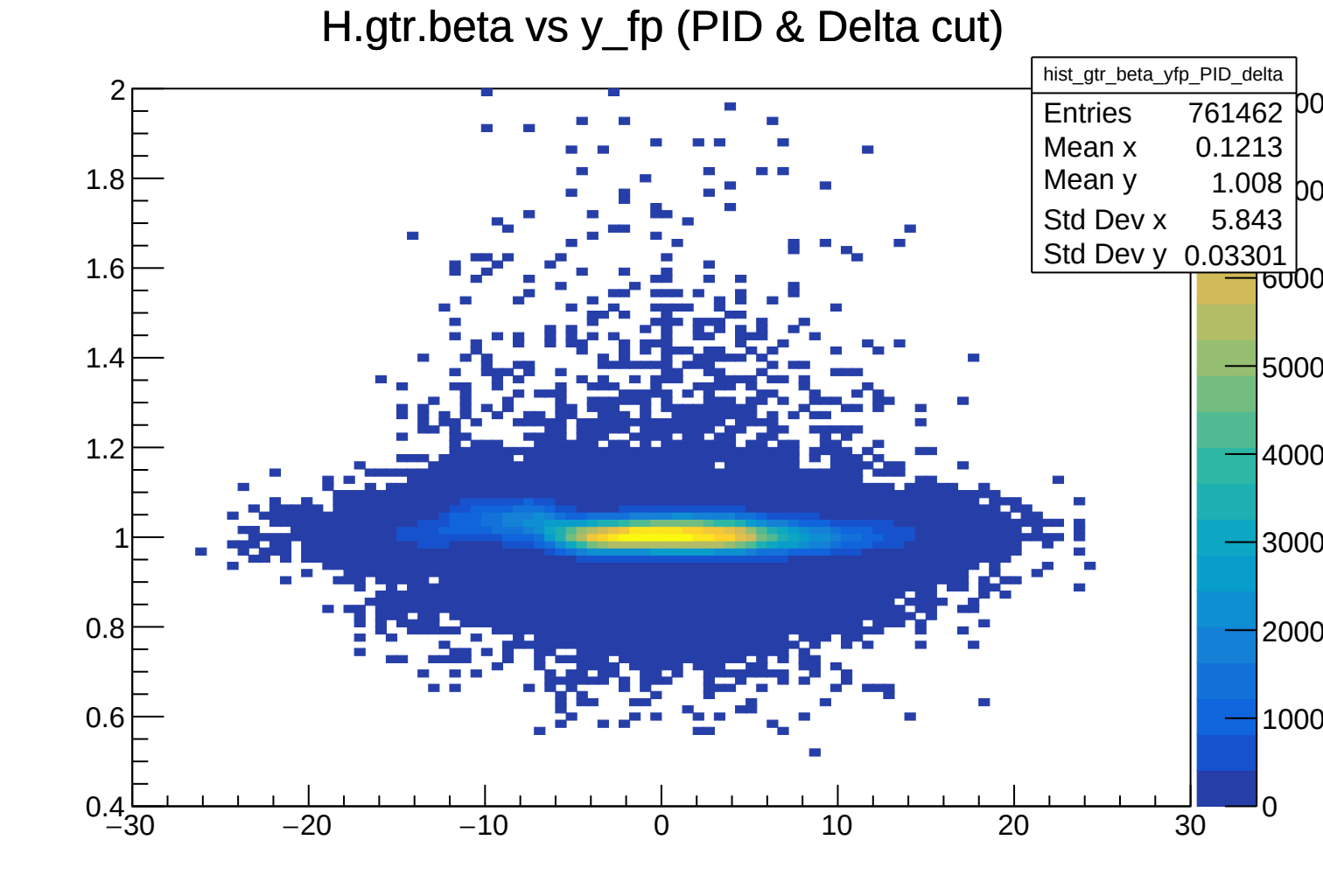

H.gtr.beta vs x_fp (PID cut)
hist_gtr_beta_xfp_PID
Entries 1093917
Mean x −7.511
Mean y 1.011
Std Dev x 23.68
Std Dev y 0.03551
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−50
−40
−30
−20
−10
0
10
20
30
40
50
2500
2000
1500
1000
500
0

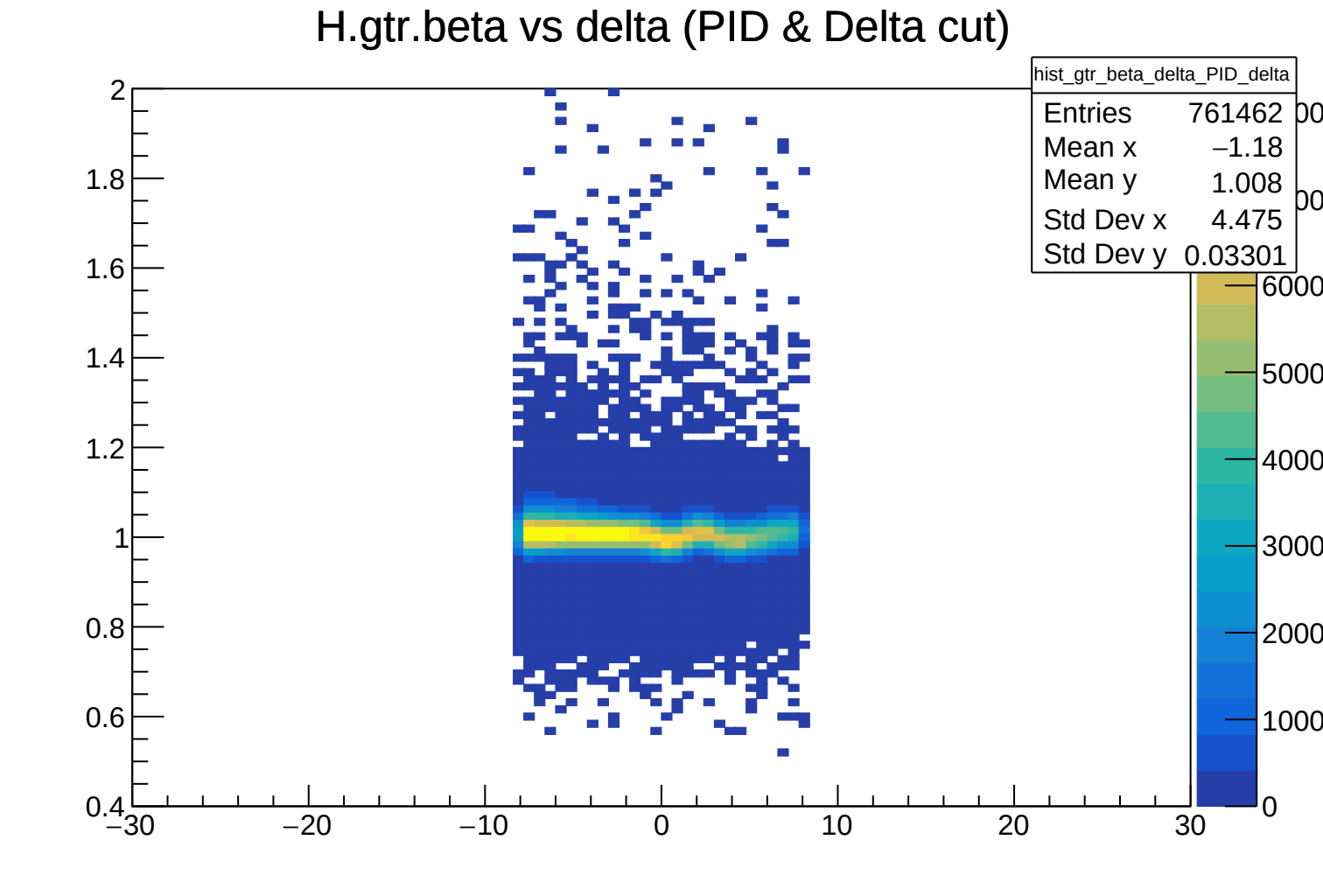

H.gtr.beta vs y_fp (PID cut)
hist_gtr_beta_yfp_PID
Entries 1093917
Mean x −0.07573
Mean y 1.011
Std Dev x 7.845
Std Dev y 0.03552
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
6000
5000
4000
3000
2000
1000
0


H.gtr.beta vs delta (PID cut)
hist_gtr_beta_delta_PID
Entries 1093917
Mean x −1.766
Mean y 1.011
Std Dev x 6.475
Std Dev y 0.03545
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 & Delta cut)
hist_yfp_xfp_PID_delta
Entries 761462
Mean x –4.654
Mean y 0.1211
Std Dev x 16.87
Std Dev y 5.843
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 (PID & Delta cut)
hist_gtr_beta_xfp_PID_delta
Entries 761462
Mean x –4.652
Mean y 1.008
Std Dev x 16.87
Std Dev y 0.03301
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 (PID & Delta cut)
hist_gtr_beta_yfp_PID_delta
Entries 761462
Mean x 0.1213
Mean y 1.008
Std Dev x 5.843
Std Dev y 0.03301
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 (PID & Delta cut)
hist_gtr_beta_delta_PID_delta
Entries 761462
Mean x −1.18
Mean y 1.008
Std Dev x 4.475
Std Dev y 0.03301
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