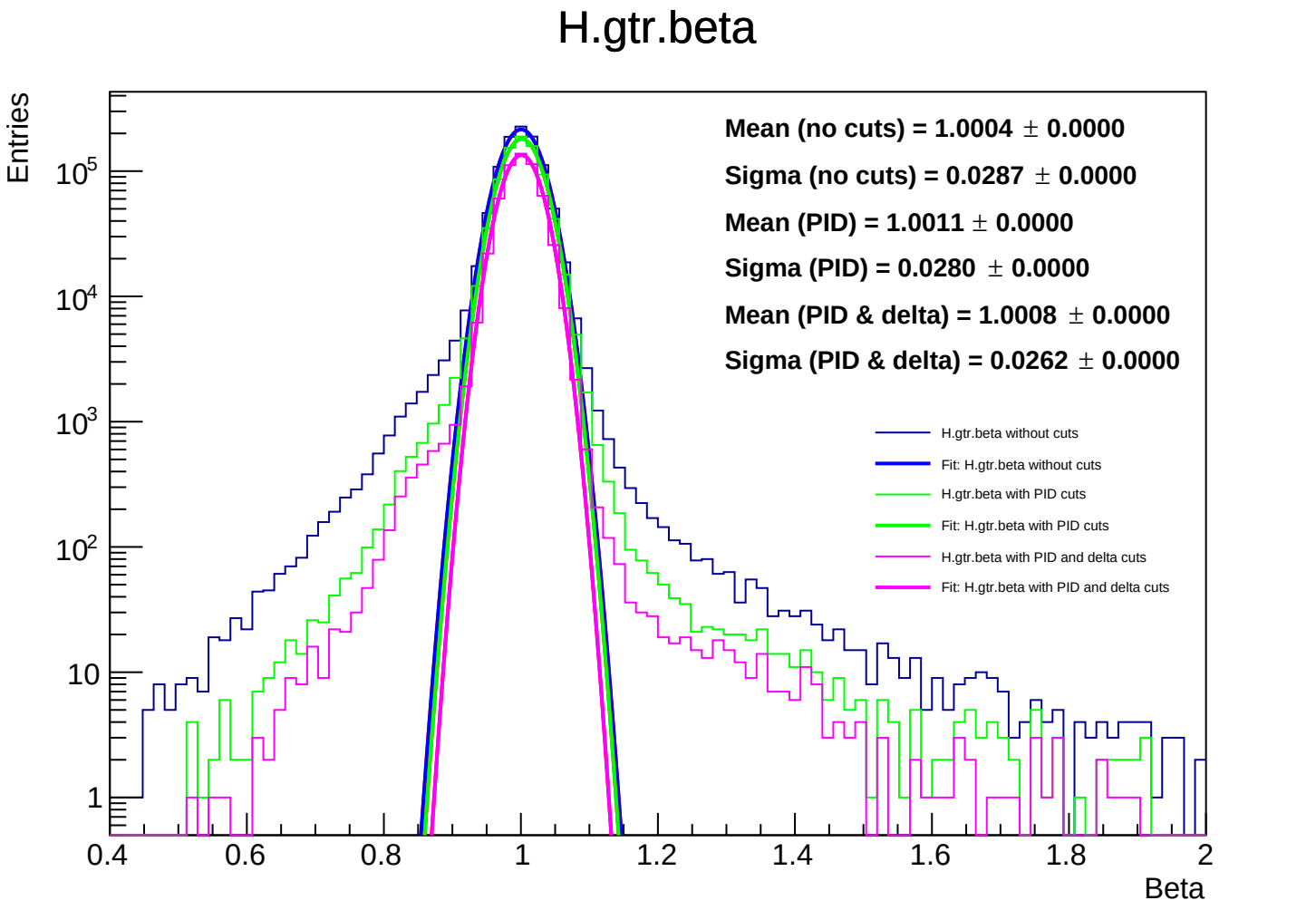
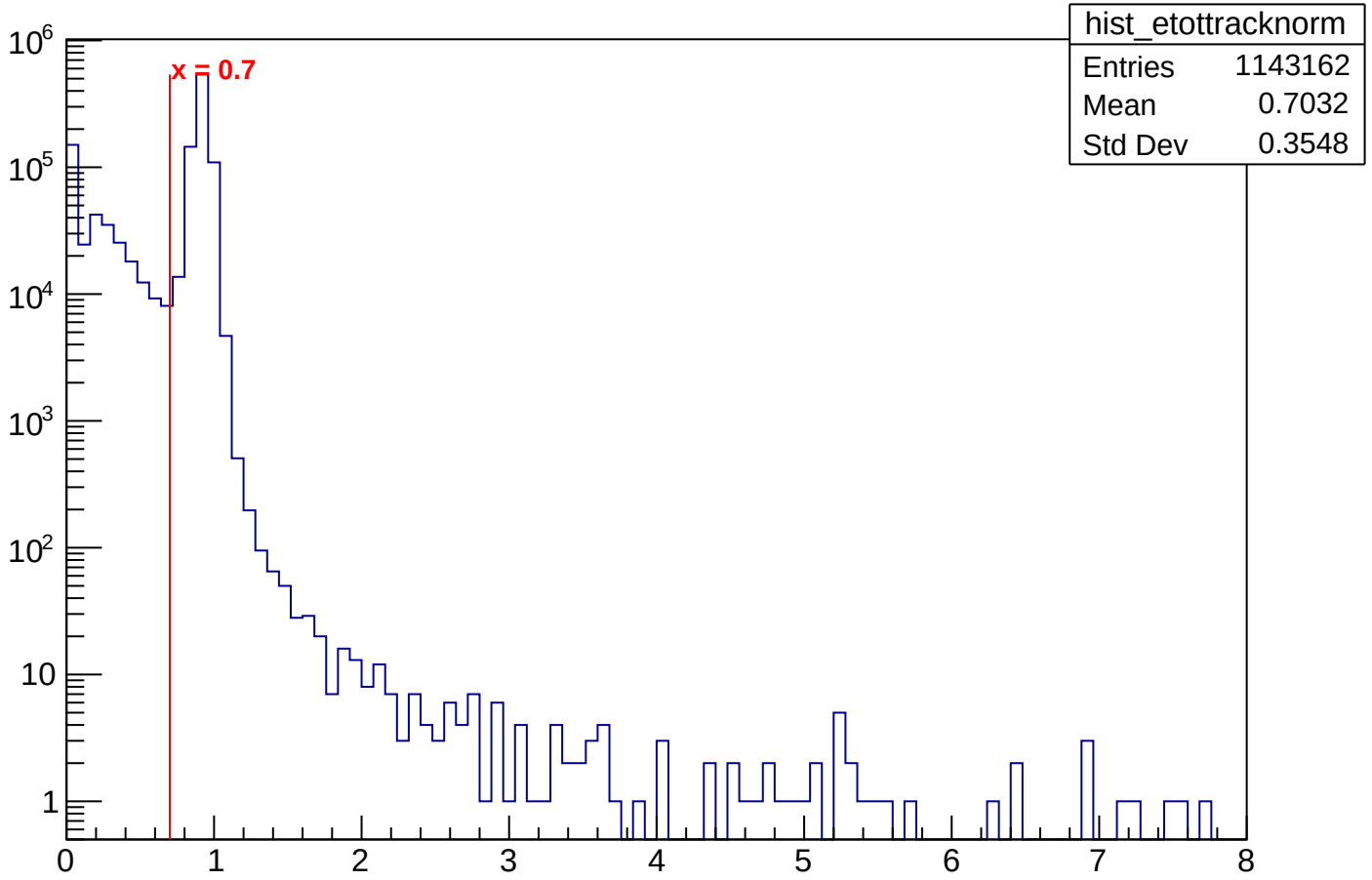
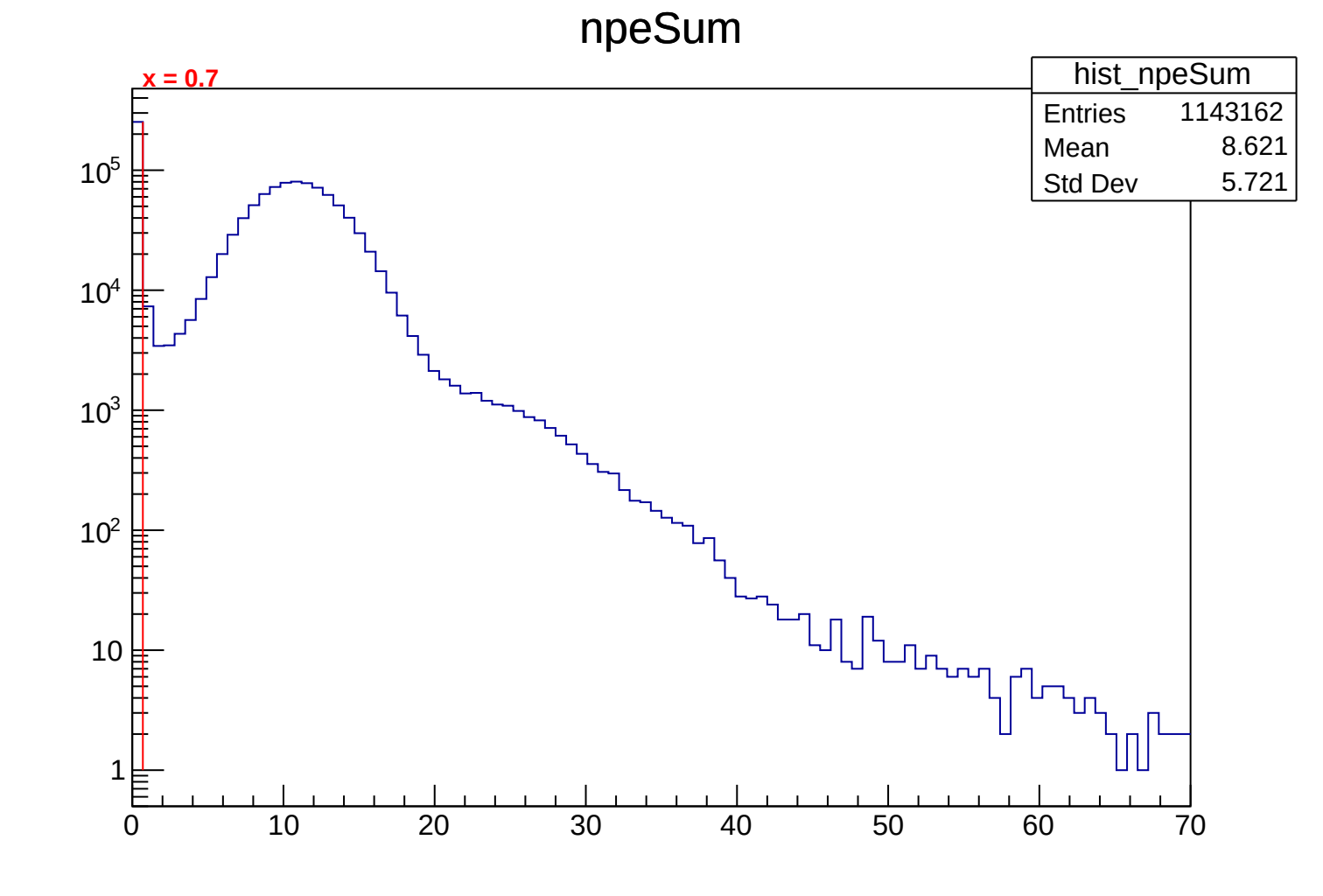
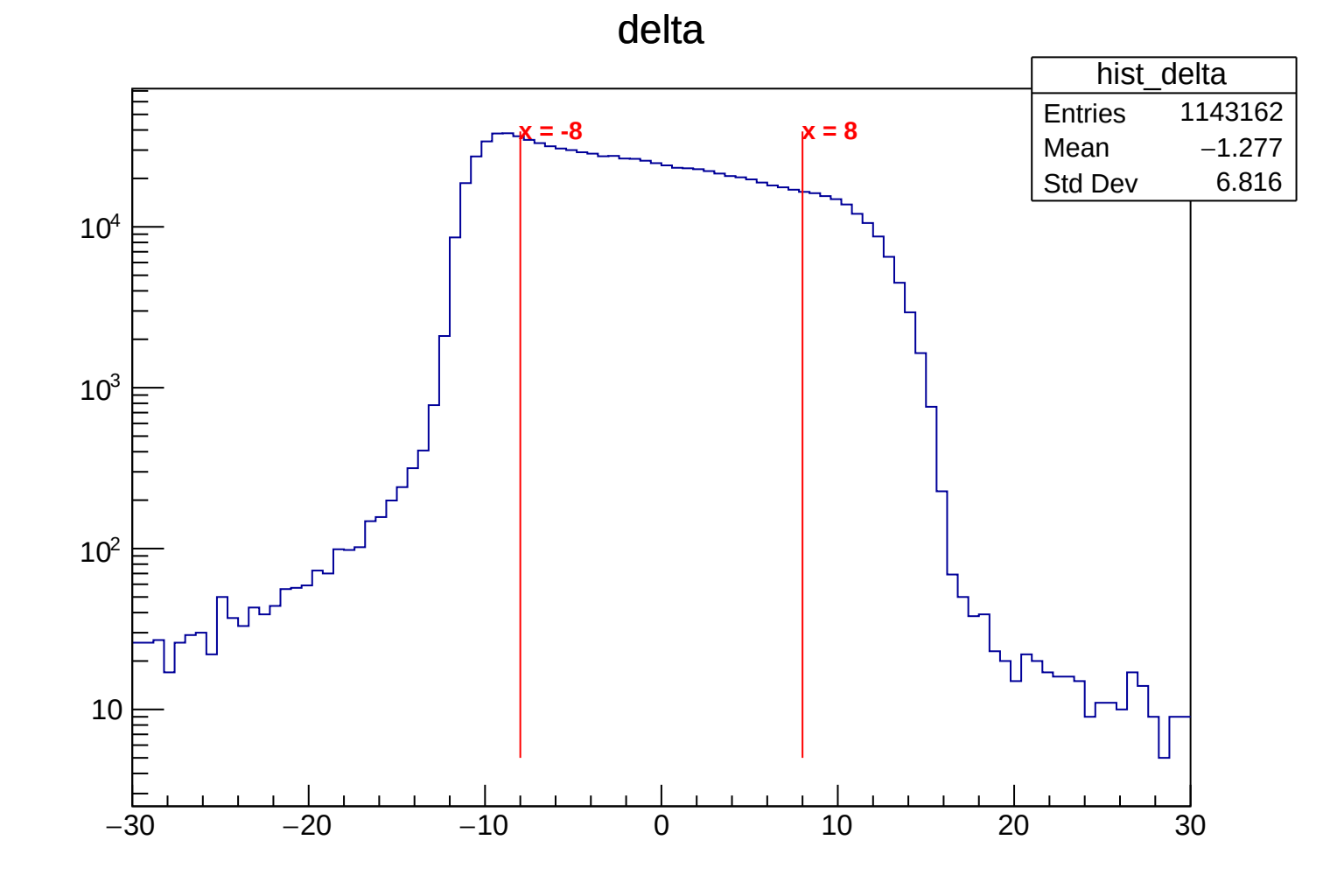
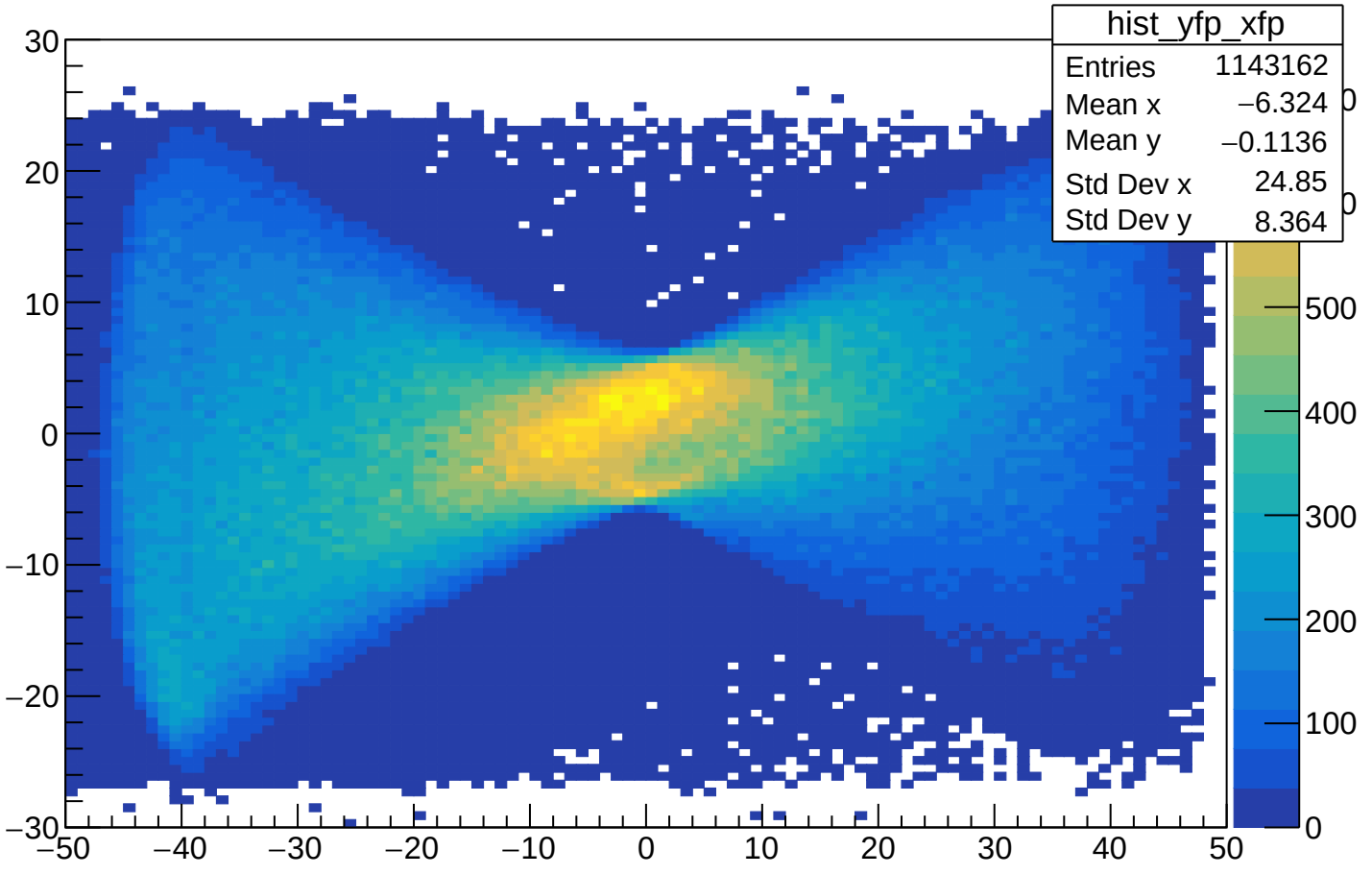
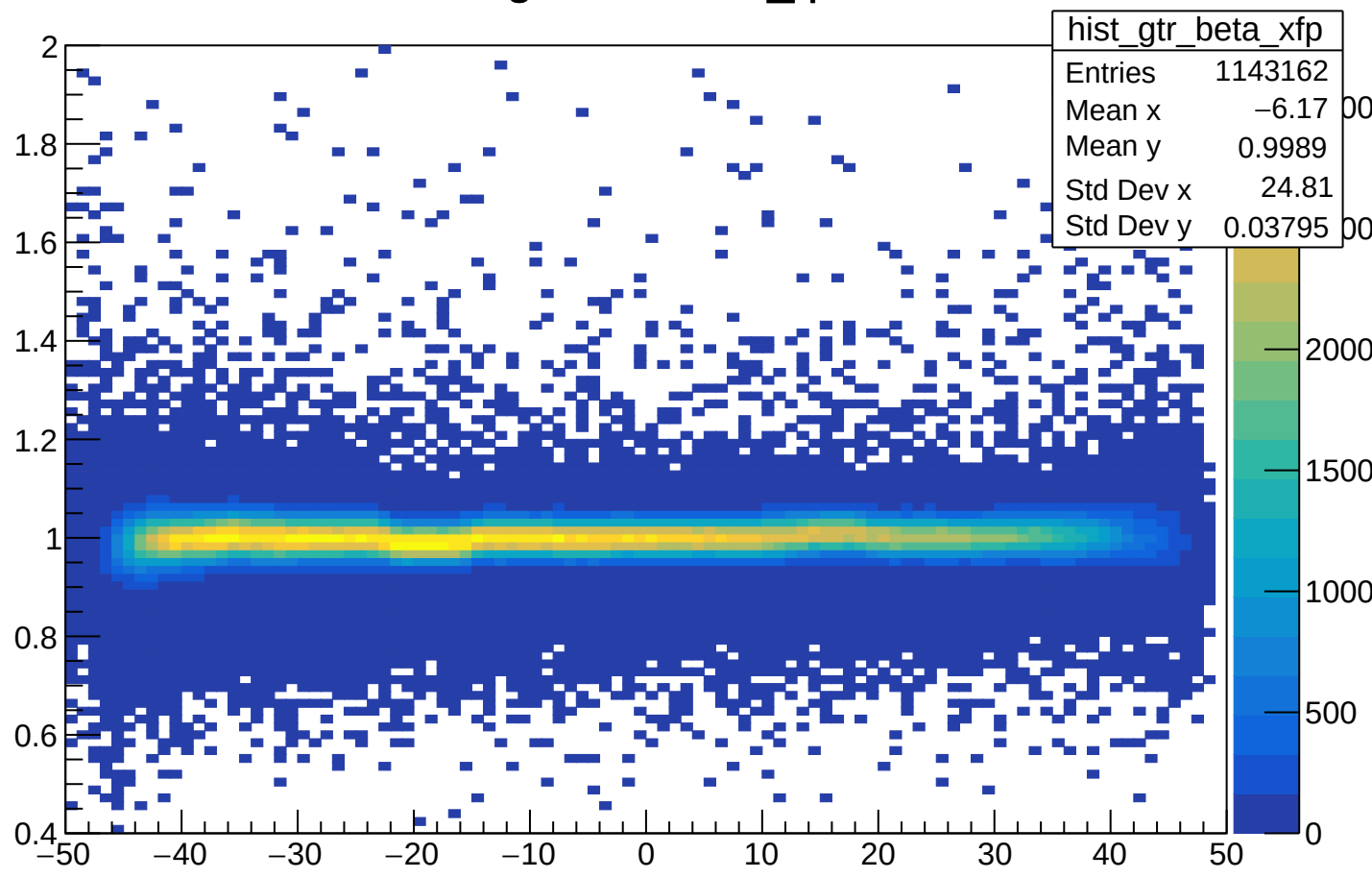

H.gtr.beta
Entries
Beta
Mean (no cuts) = 1.0004 ± 0.0000
Sigma (no cuts) = 0.0287 ± 0.0000
Mean (PID) = 1.0011 ± 0.0000
Sigma (PID) = 0.0280 ± 0.0000
Mean (PID & delta) = 1.0008 ± 0.0000
Sigma (PID & delta) = 0.0262 ± 0.0000
H.gtr.beta without cuts
Fit: H.gtr.beta without cuts
H.gtr.beta with PID cuts
Fit: H.gtr.beta with PID cuts
H.gtr.beta with PID and delta cuts
Fit: H.gtr.beta with PID and delta cuts

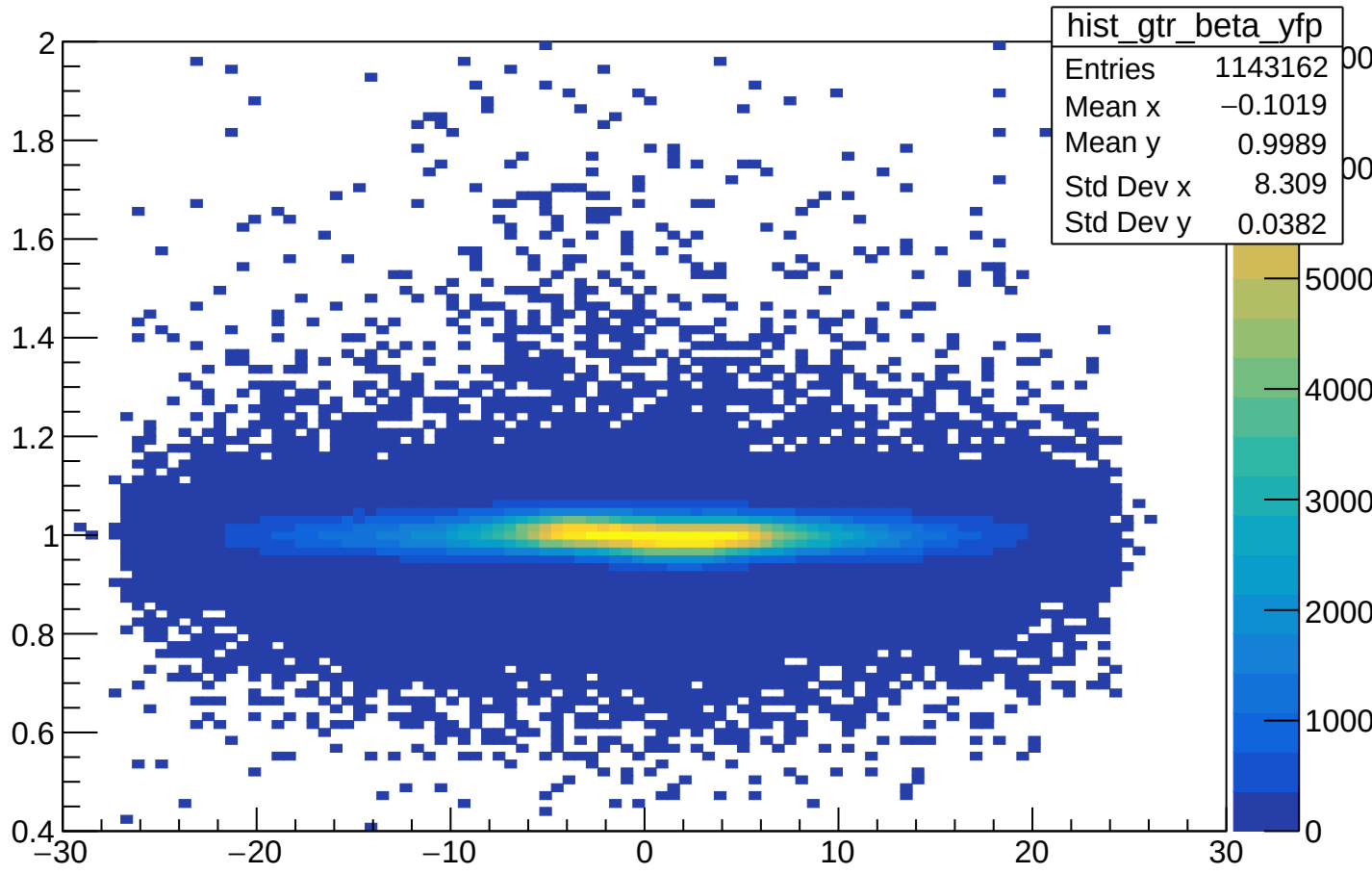

etottracknorm
hist_etottracknorm
Entries 1143162
Mean 0.7032
Std Dev 0.3548
x = 0.7
10^6
10^5
10^4
10^3
10^2
10
1
0
1
2
3
4
5
6
7
8

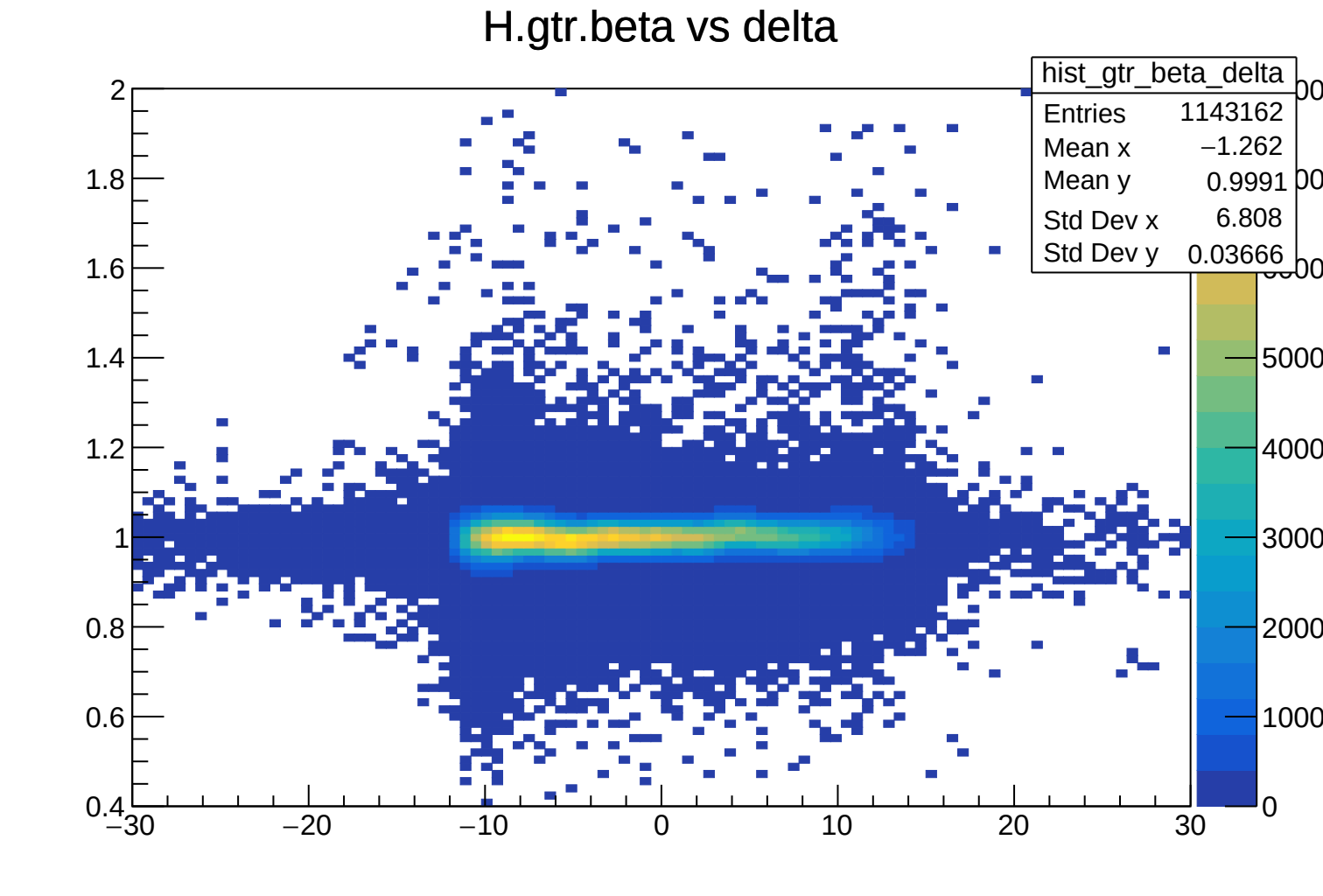

npeSum
x = 0.7
hist_npeSum
Entries 1143162
Mean 8.621
Std Dev 5.721
10^5
10^4
10^3
10^2
10
1
0
10
20
30
40
50
60
70

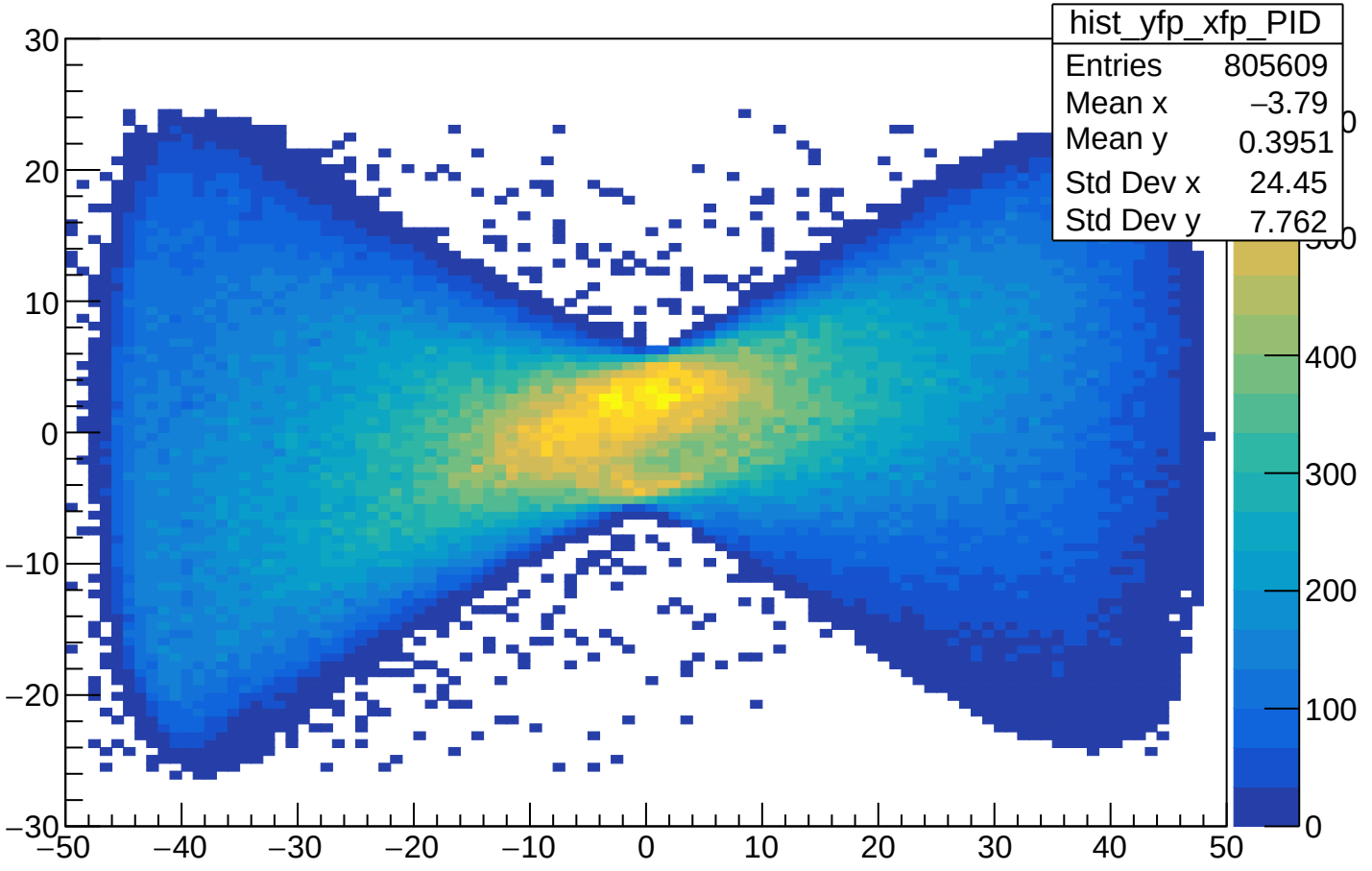

delta
hist_delta
Entries 1143162
Mean −1.277
Std Dev 6.816
x = -8
x = 8
10^4
10^3
10^2
10
−30
−20
−10
0
10
20
30

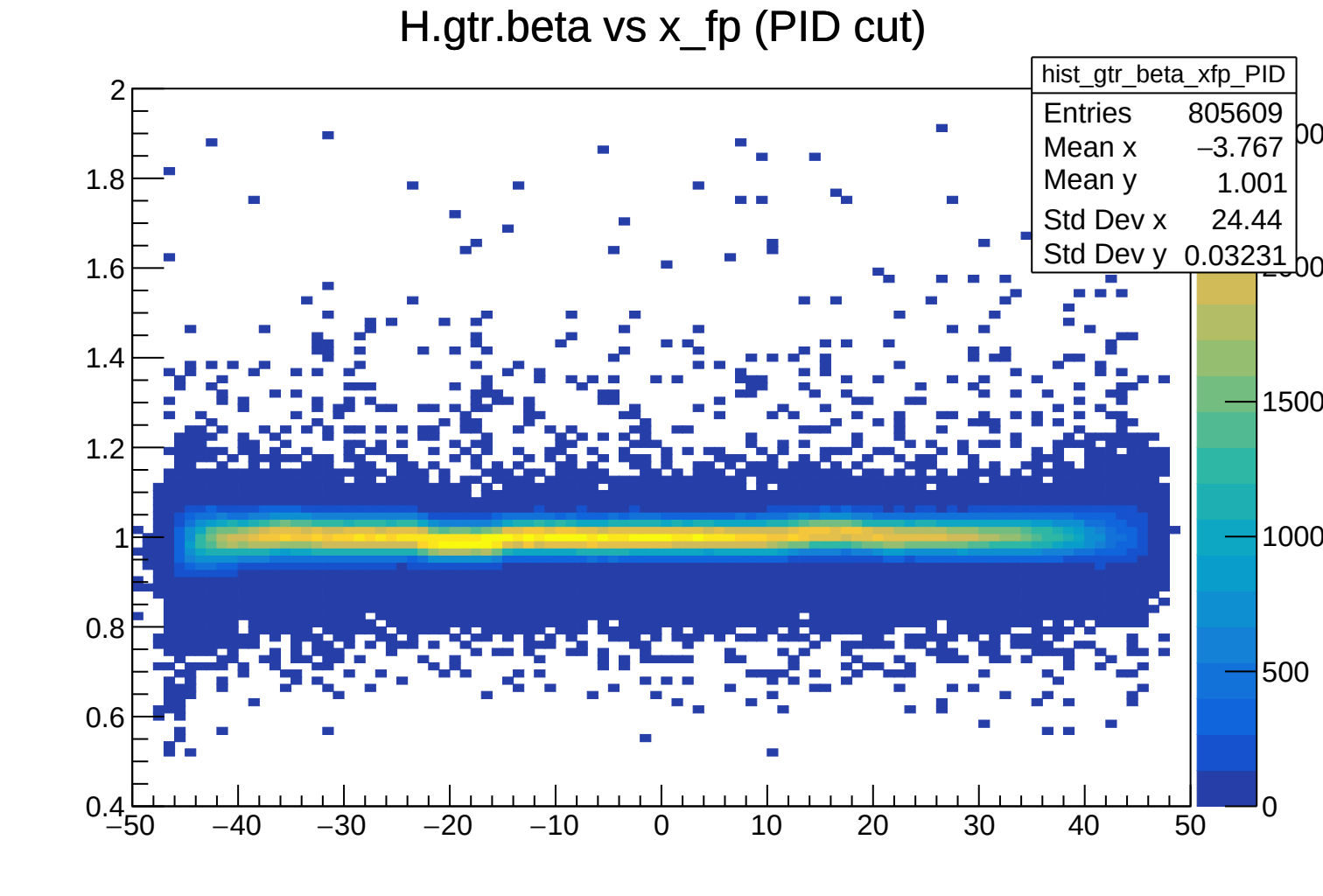

focal plane
hist_yfp_xfp
Entries 1143162
Mean x −6.324
Mean y −0.1136
Std Dev x 24.85
Std Dev y 8.364
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
500
400
300
200
100
0

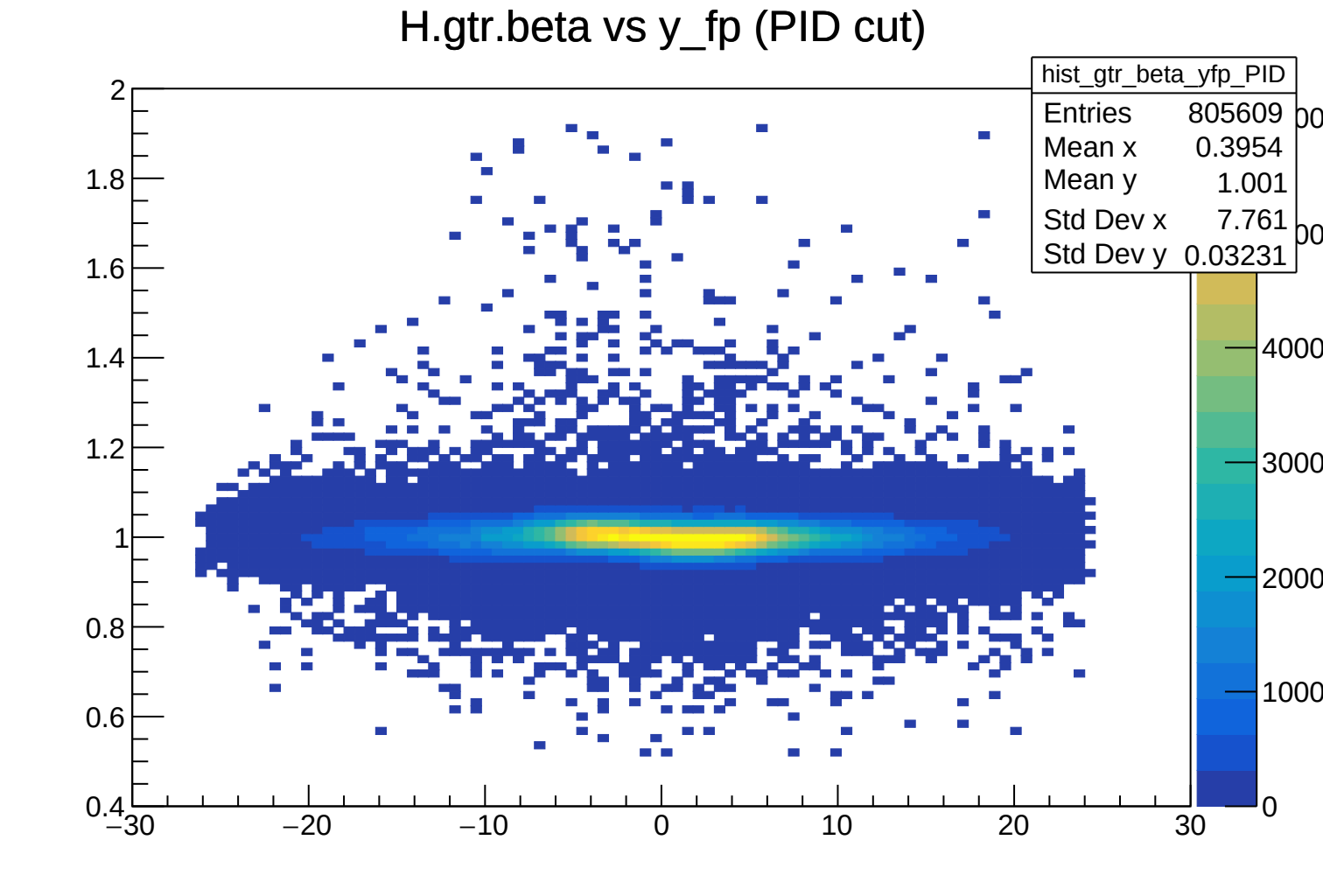

H.gtr.beta vs x_fp
hist_gtr_beta_xfp
Entries 1143162
Mean x −6.17
Mean y 0.9989
Std Dev x 24.81
Std Dev y 0.03795
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−50
−40
−30
−20
−10
0
10
20
30
40
50
2000
1500
1000
500
0

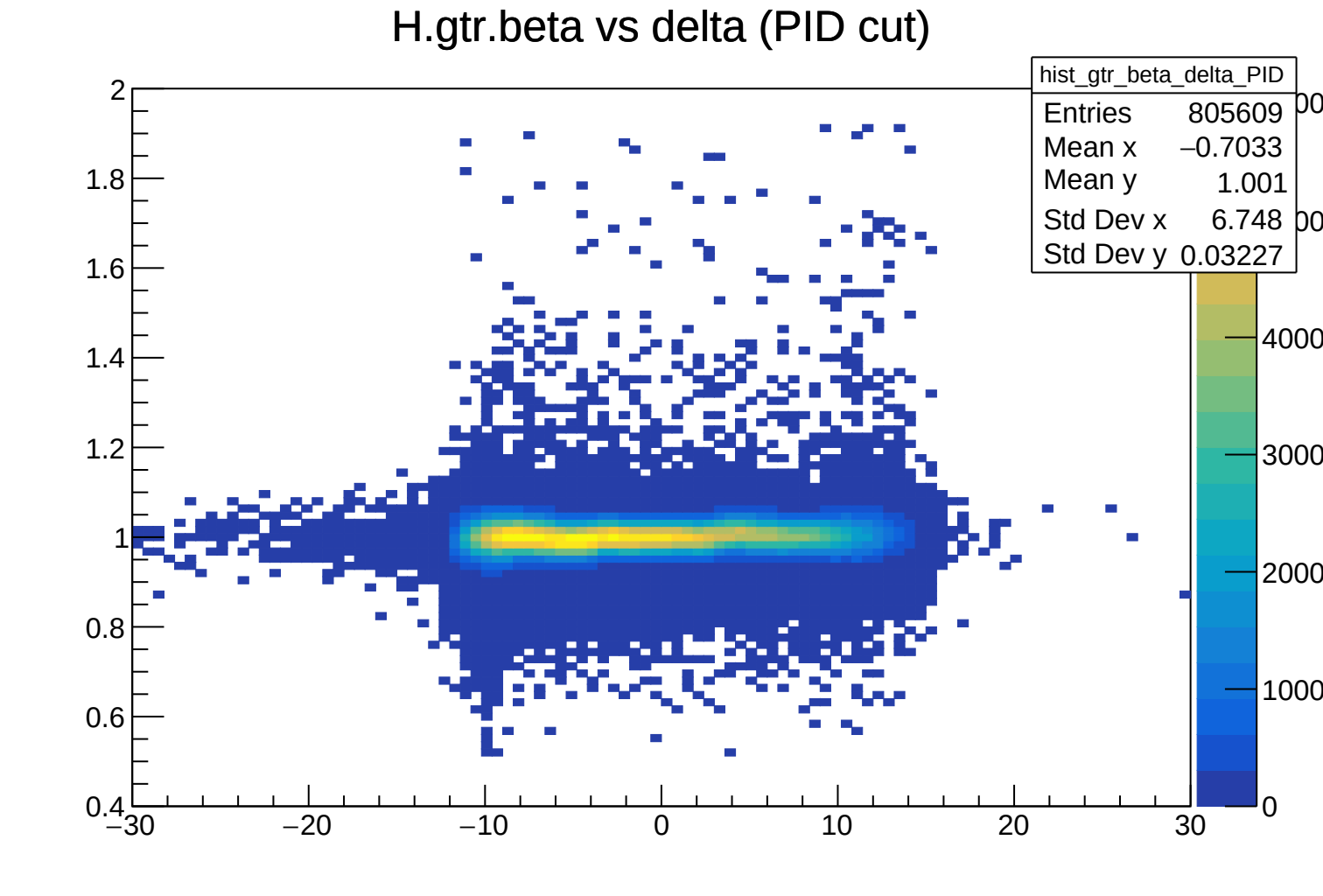

H.gtr.beta vs y_fp
hist_gtr_beta_yfp
Entries 1143162
Mean x −0.1019
Mean y 0.9989
Std Dev x 8.309
Std Dev y 0.0382
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
5000
4000
3000
2000
1000
0

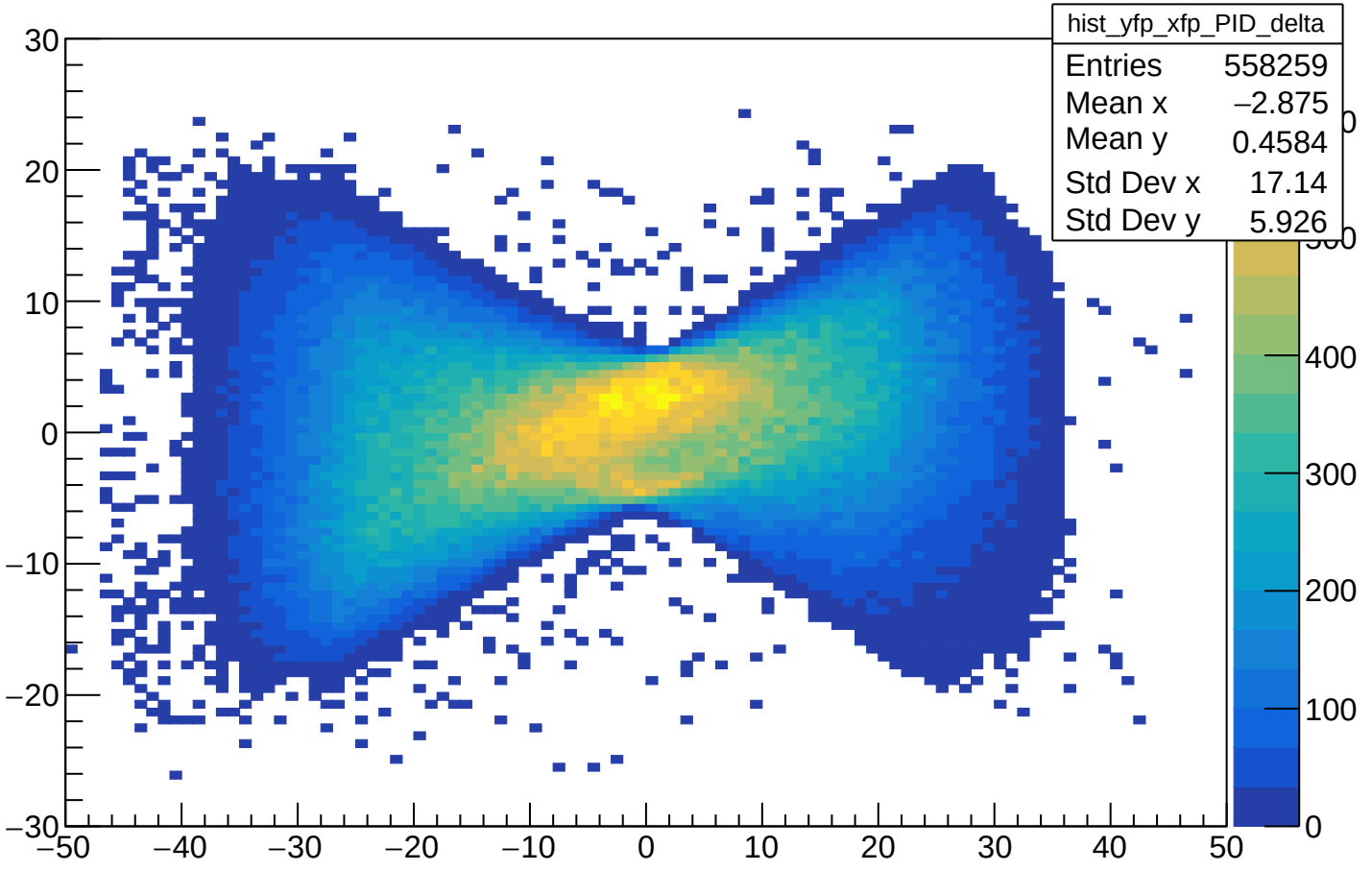

H.gtr.beta vs delta
hist_gtr_beta_delta
Entries 1143162
Mean x −1.262
Mean y 0.9991
Std Dev x 6.808
Std Dev y 0.03666
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
5000
4000
3000
2000
1000
0

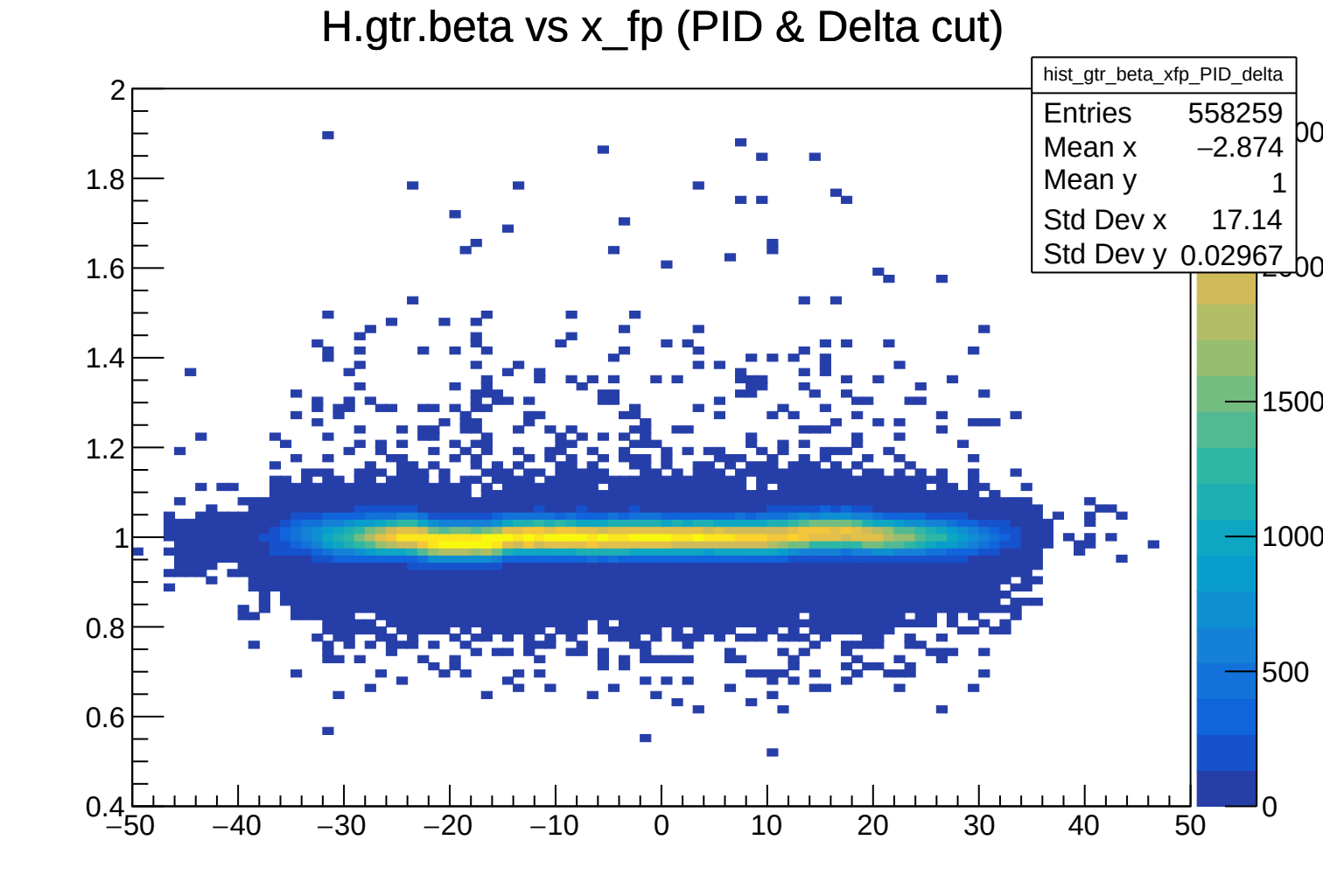

focal plane (PID cut)
hist_yfp_xfp_PID
Entries 805609
Mean x −3.79
Mean y 0.3951
Std Dev x 24.45
Std Dev y 7.762
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
400
300
200
100
0

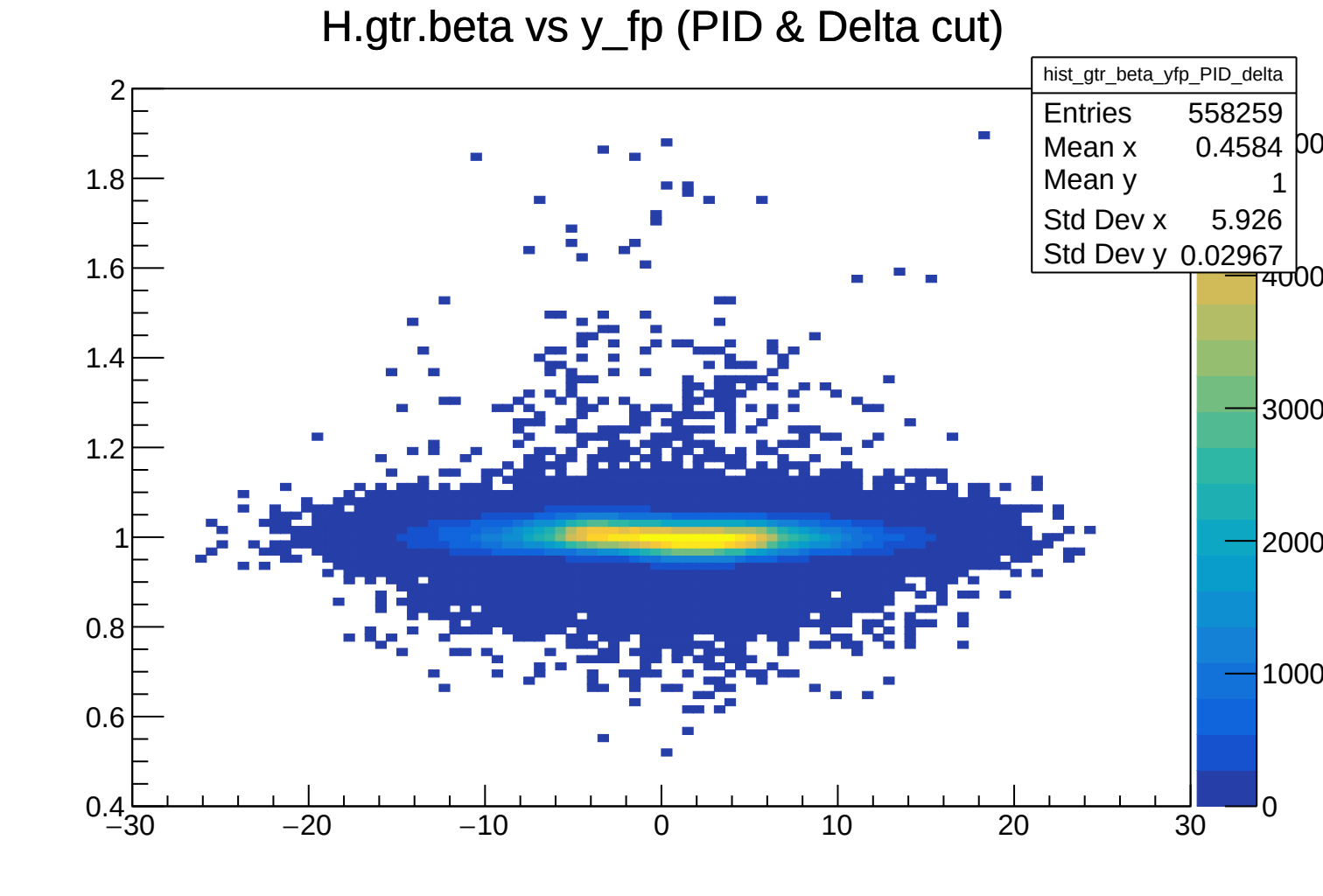

H.gtr.beta vs x_fp (PID cut)
hist_gtr_beta_xfp_PID
Entries 805609
Mean x −3.767
Mean y 1.001
Std Dev x 24.44
Std Dev y 0.03231
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−50
−40
−30
−20
−10
0
10
20
30
40
50
1500
1000
500
0

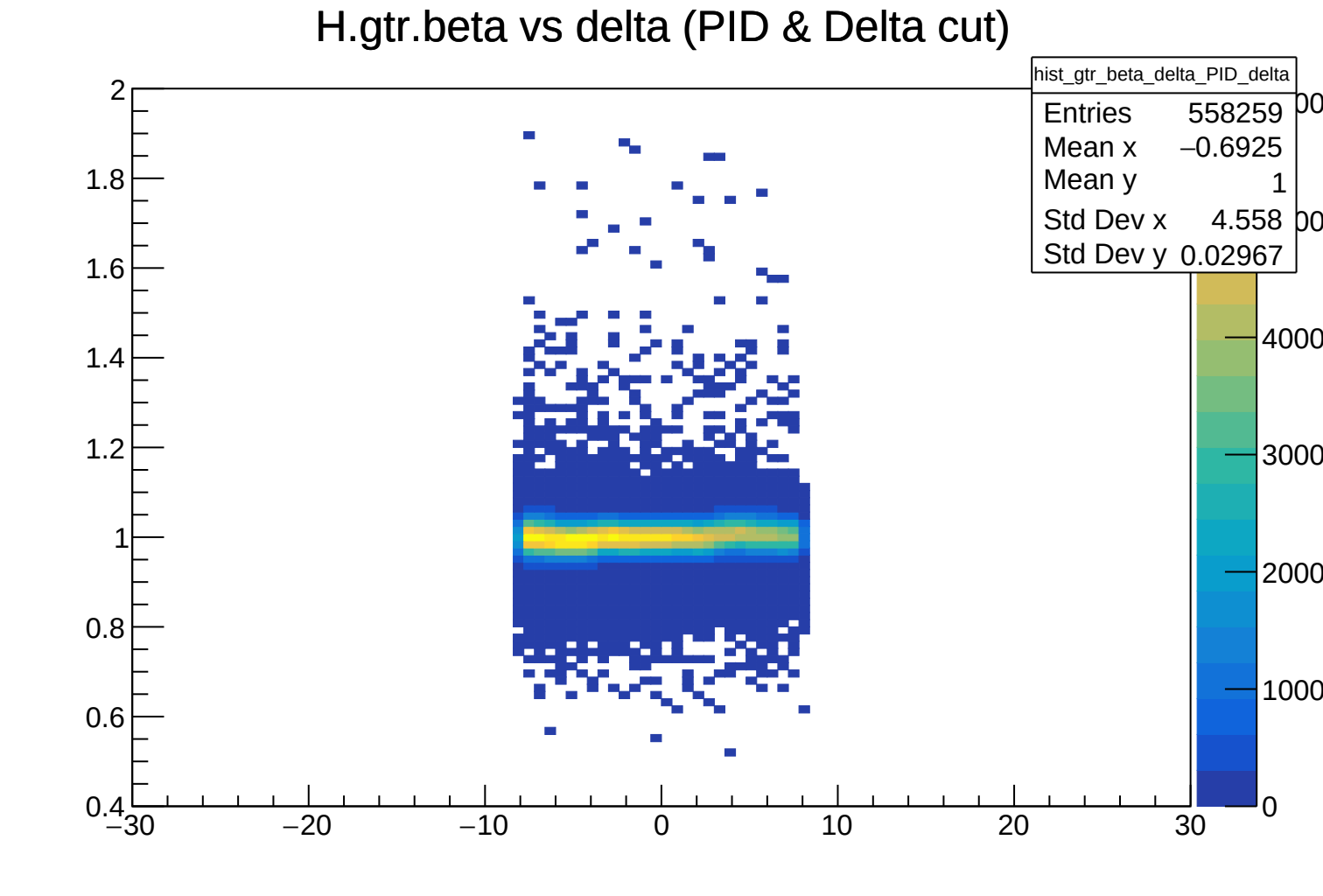

H.gtr.beta vs y_fp (PID cut)
hist_gtr_beta_yfp_PID
Entries 805609
Mean x 0.3954
Mean y 1.001
Std Dev x 7.761
Std Dev y 0.03231
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
4000
3000
2000
1000
0


H.gtr.beta vs delta (PID cut)
hist_gtr_beta_delta_PID
Entries 805609
Mean x −0.7033
Mean y 1.001
Std Dev x 6.748
Std Dev y 0.03227
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 & Delta cut)
hist_yfp_xfp_PID_delta
Entries 558259
Mean x −2.875
Mean y 0.4584
Std Dev x 17.14
Std Dev y 5.926
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
400
300
200
100
0


H.gtr.beta vs x_fp (PID & Delta cut)
hist_gtr_beta_xfp_PID_delta
Entries 558259
Mean x −2.874
Mean y 1
Std Dev x 17.14
Std Dev y 0.02967
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 (PID & Delta cut)
hist_gtr_beta_yfp_PID_delta
Entries 558259
Mean x 0.4584
Mean y 1
Std Dev x 5.926
Std Dev y 0.02967
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 (PID & Delta cut)
hist_gtr_beta_delta_PID_delta
Entries 558259
Mean x −0.6925
Mean y 1
Std Dev x 4.558
Std Dev y 0.02967
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