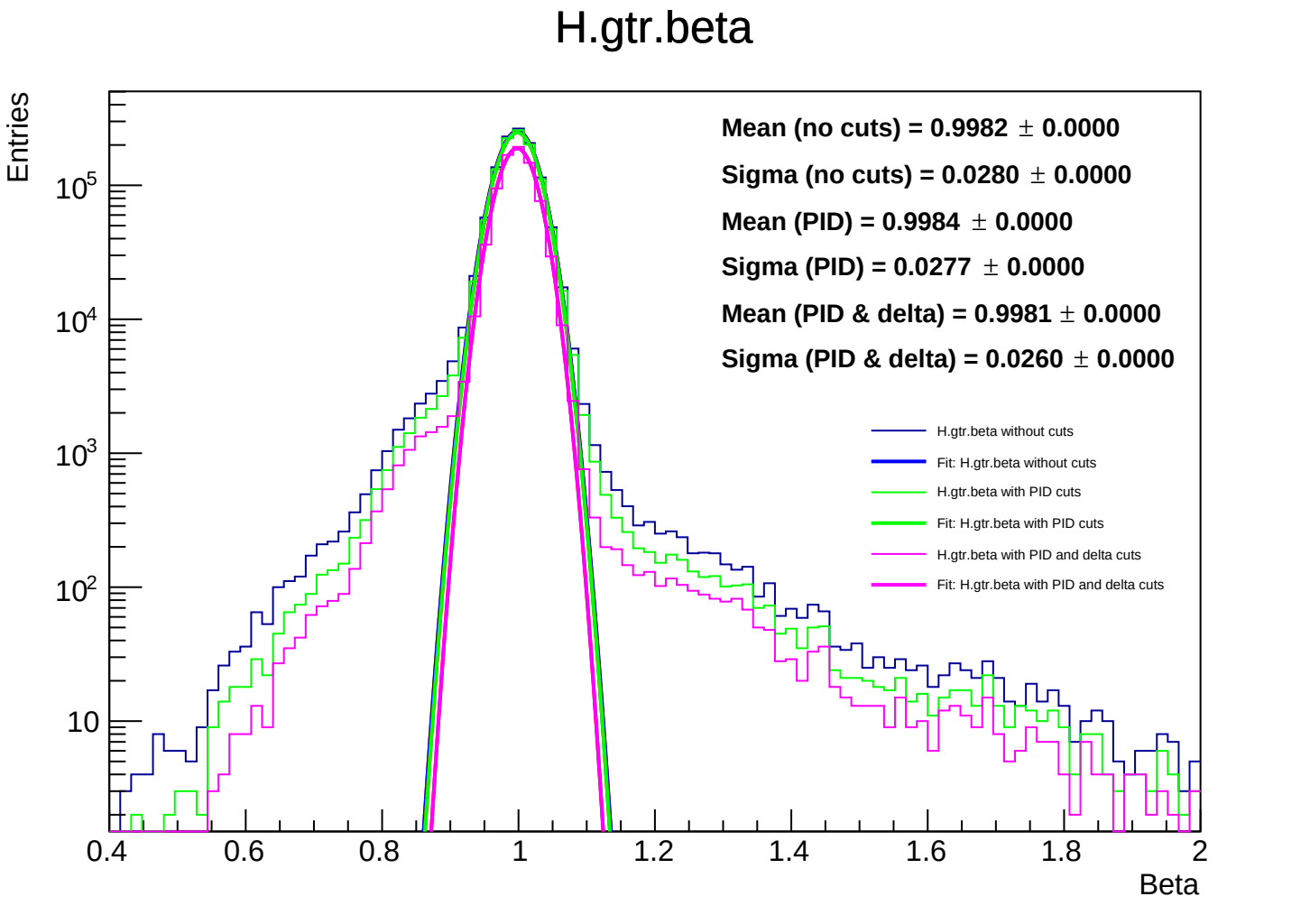
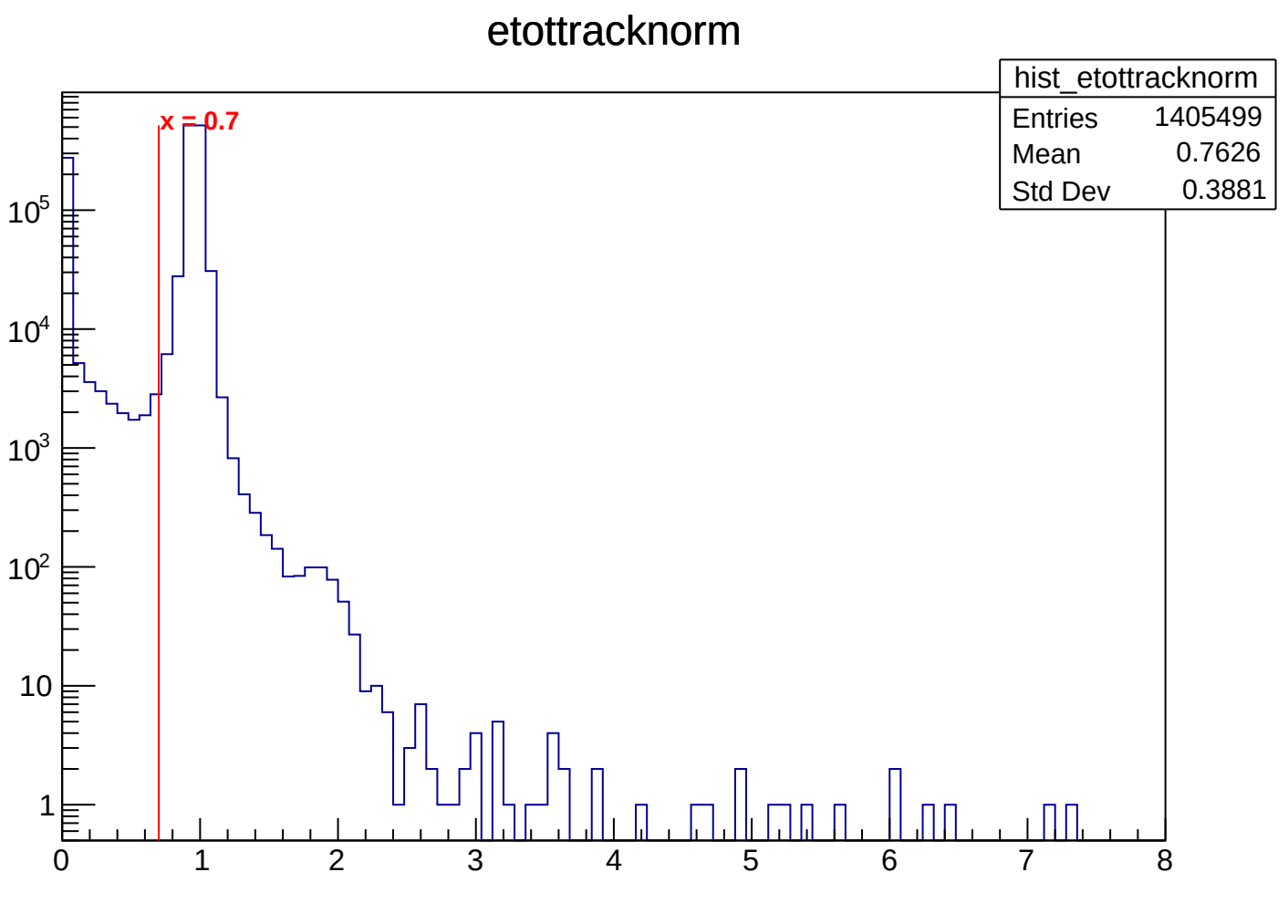
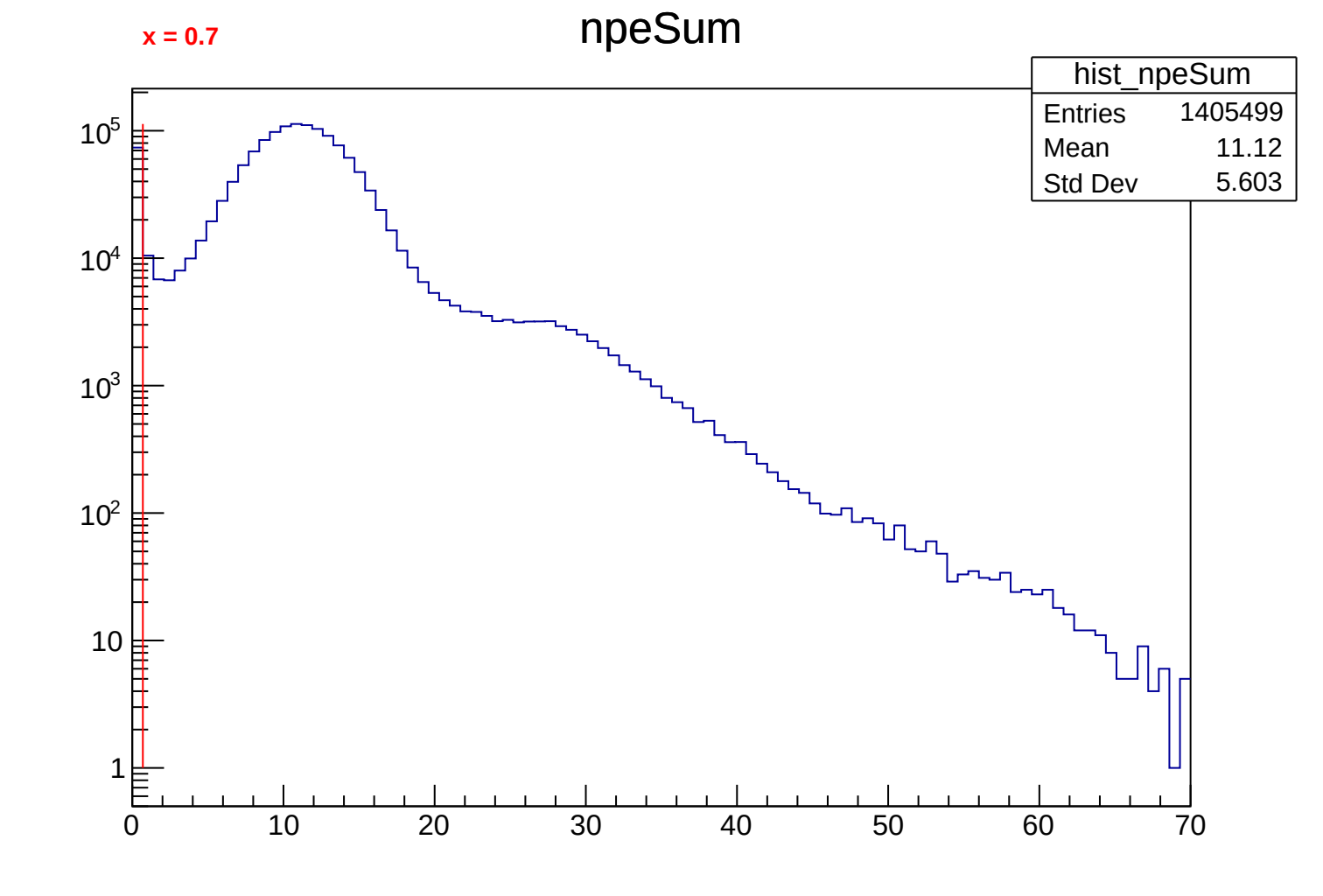
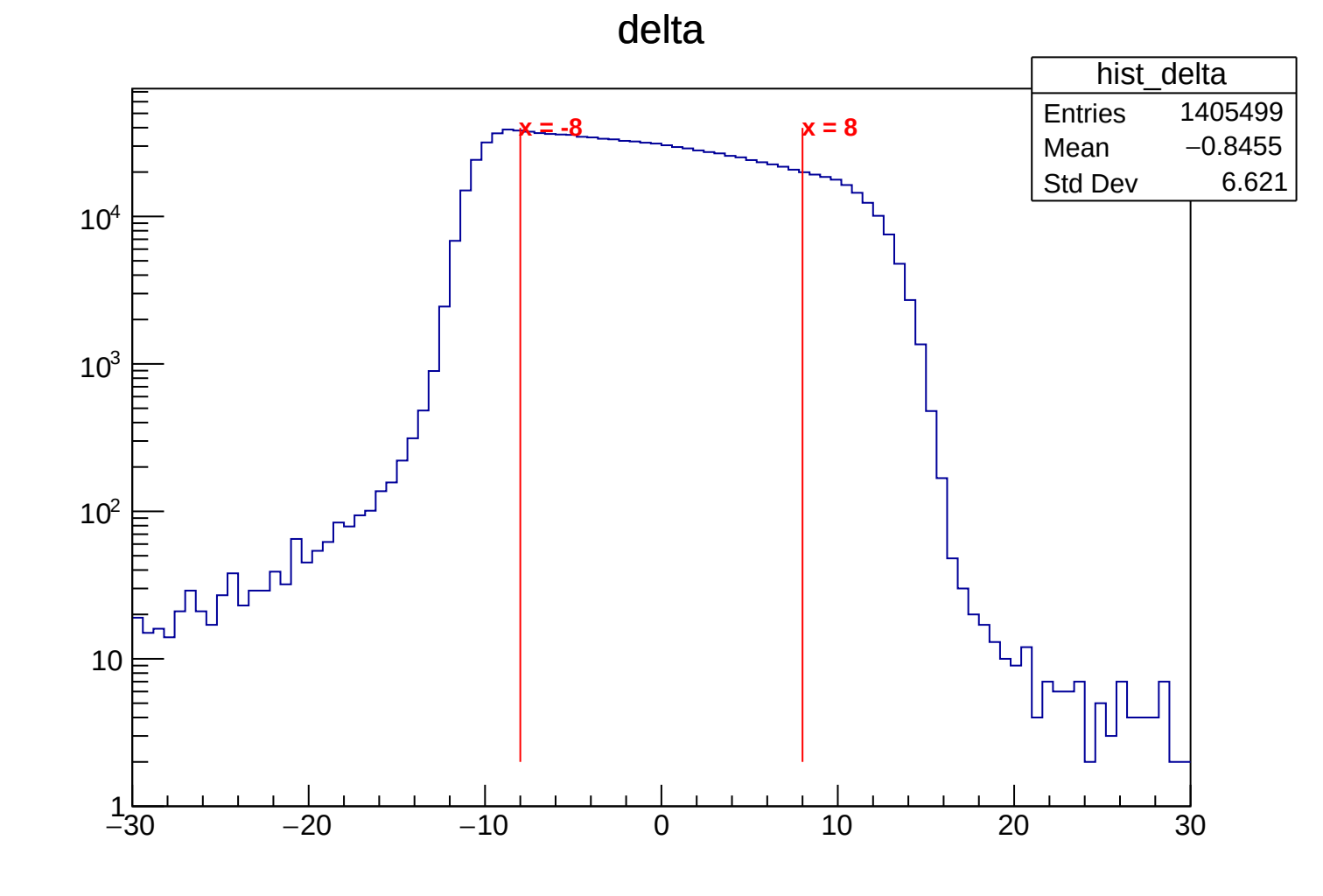
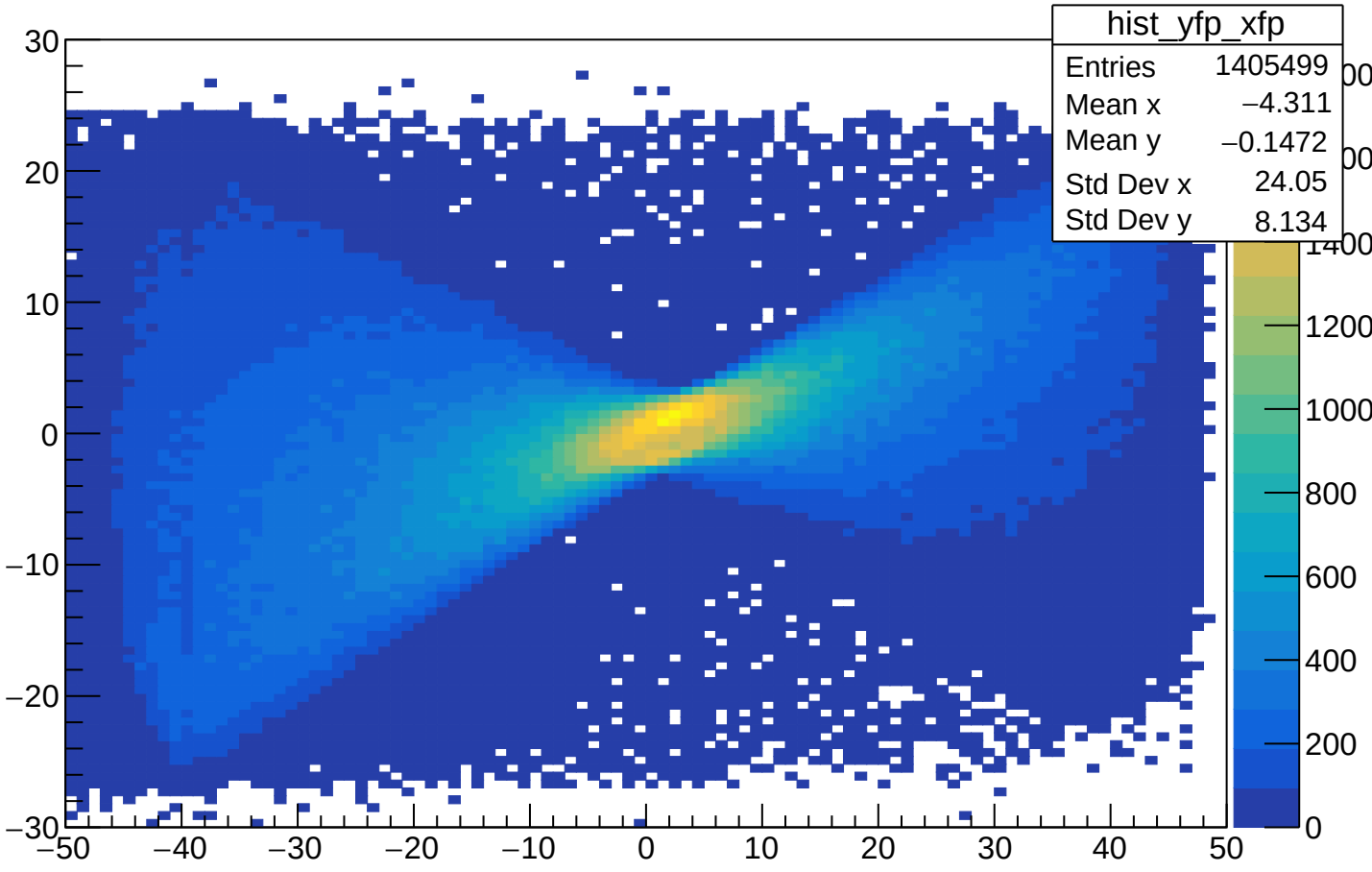
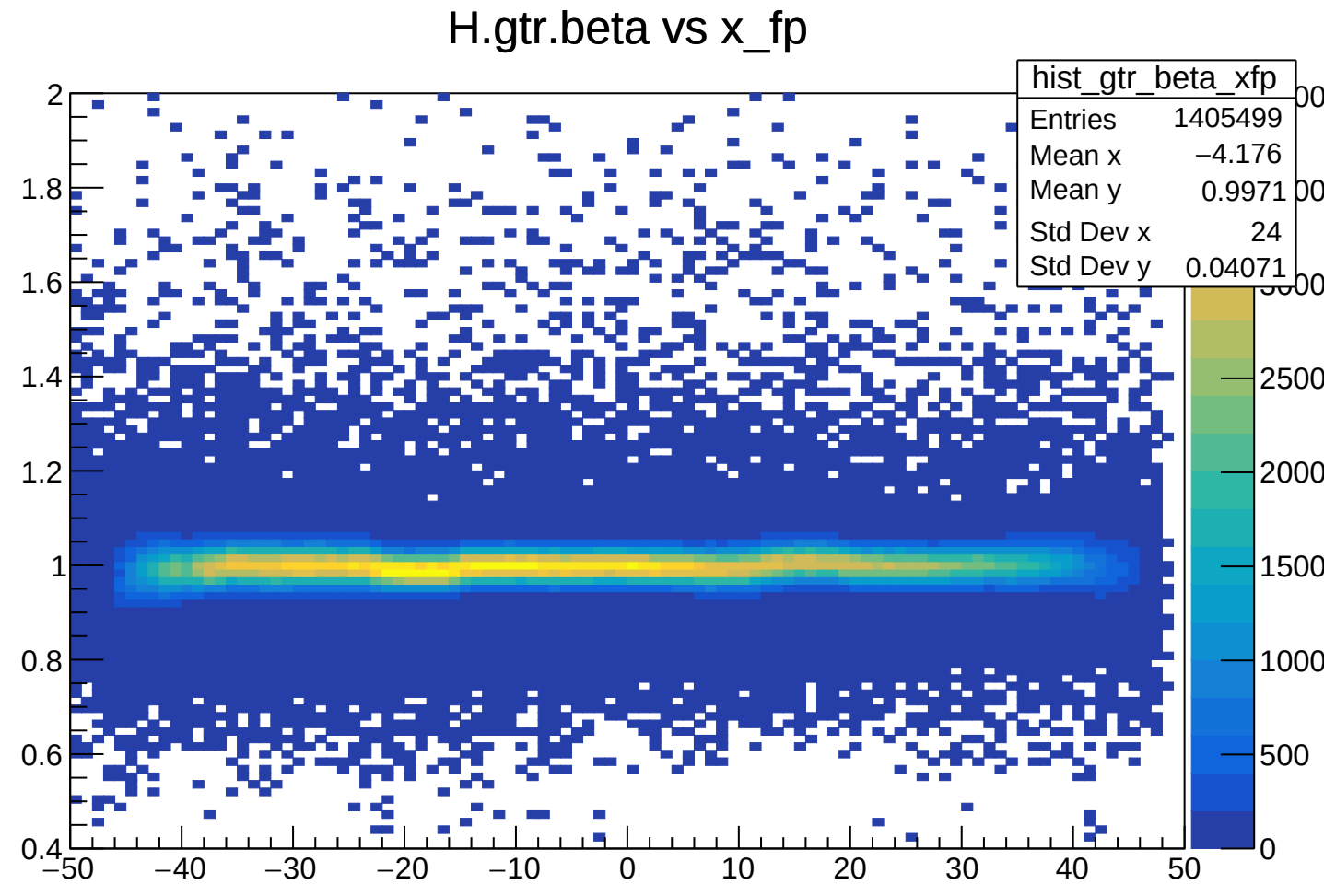

H.gtr.beta
Entries
Beta
Mean (no cuts) = 0.9982 ± 0.0000
Sigma (no cuts) = 0.0280 ± 0.0000
Mean (PID) = 0.9984 ± 0.0000
Sigma (PID) = 0.0277 ± 0.0000
Mean (PID & delta) = 0.9981 ± 0.0000
Sigma (PID & delta) = 0.0260 ± 0.0000
H.gtr.beta without cuts
Fit: H.gtr.beta without cuts
H.gtr.beta with PID cuts
Fit: H.gtr.beta with PID cuts
H.gtr.beta with PID and delta cuts
Fit: H.gtr.beta with PID and delta cuts

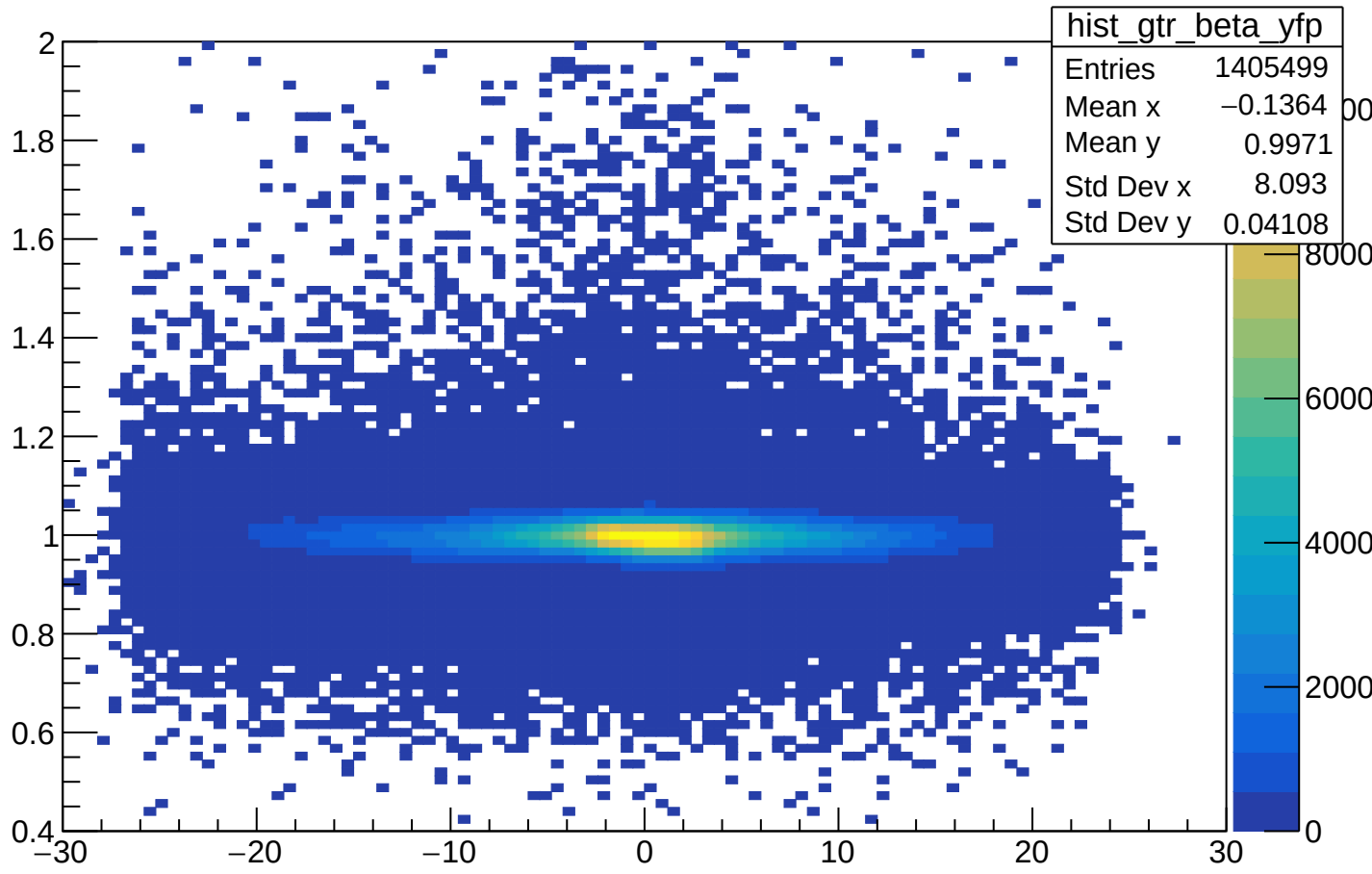

etottracknorm
hist_etottracknorm
Entries 1405499
Mean 0.7626
Std Dev 0.3881
x = 0.7
10^5
10^4
10^3
10^2
10
1
0
1
2
3
4
5
6
7
8

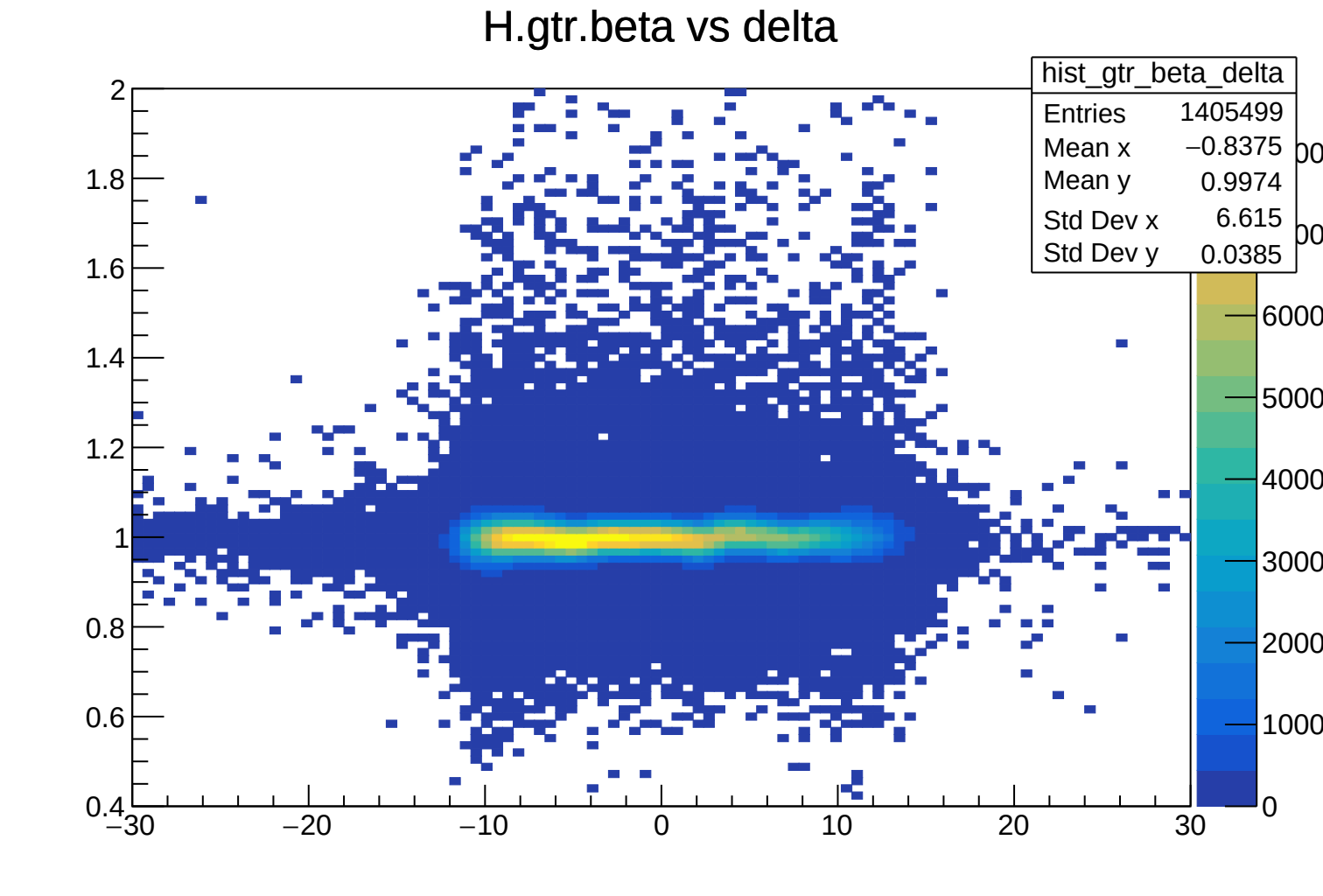

x = 0.7
npeSum
hist_npeSum
Entries 1405499
Mean 11.12
Std Dev 5.603
10^5
10^4
10^3
10^2
10
1
0
10
20
30
40
50
60
70

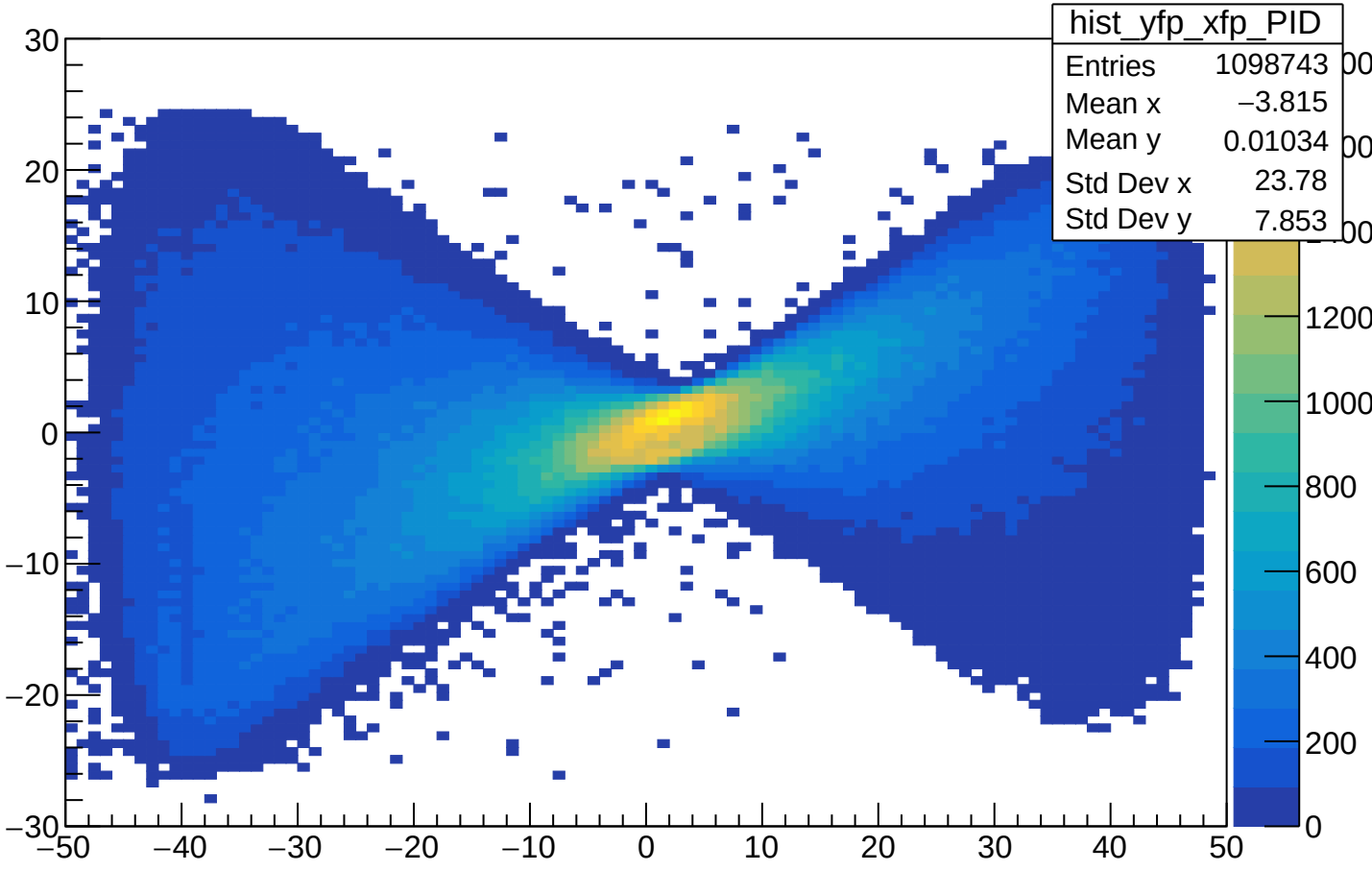

delta
hist_delta
Entries 1405499
Mean −0.8455
Std Dev 6.621
x = -8
x = 8
10^4
10^3
10^2
10
1
−30
−20
−10
0
10
20
30

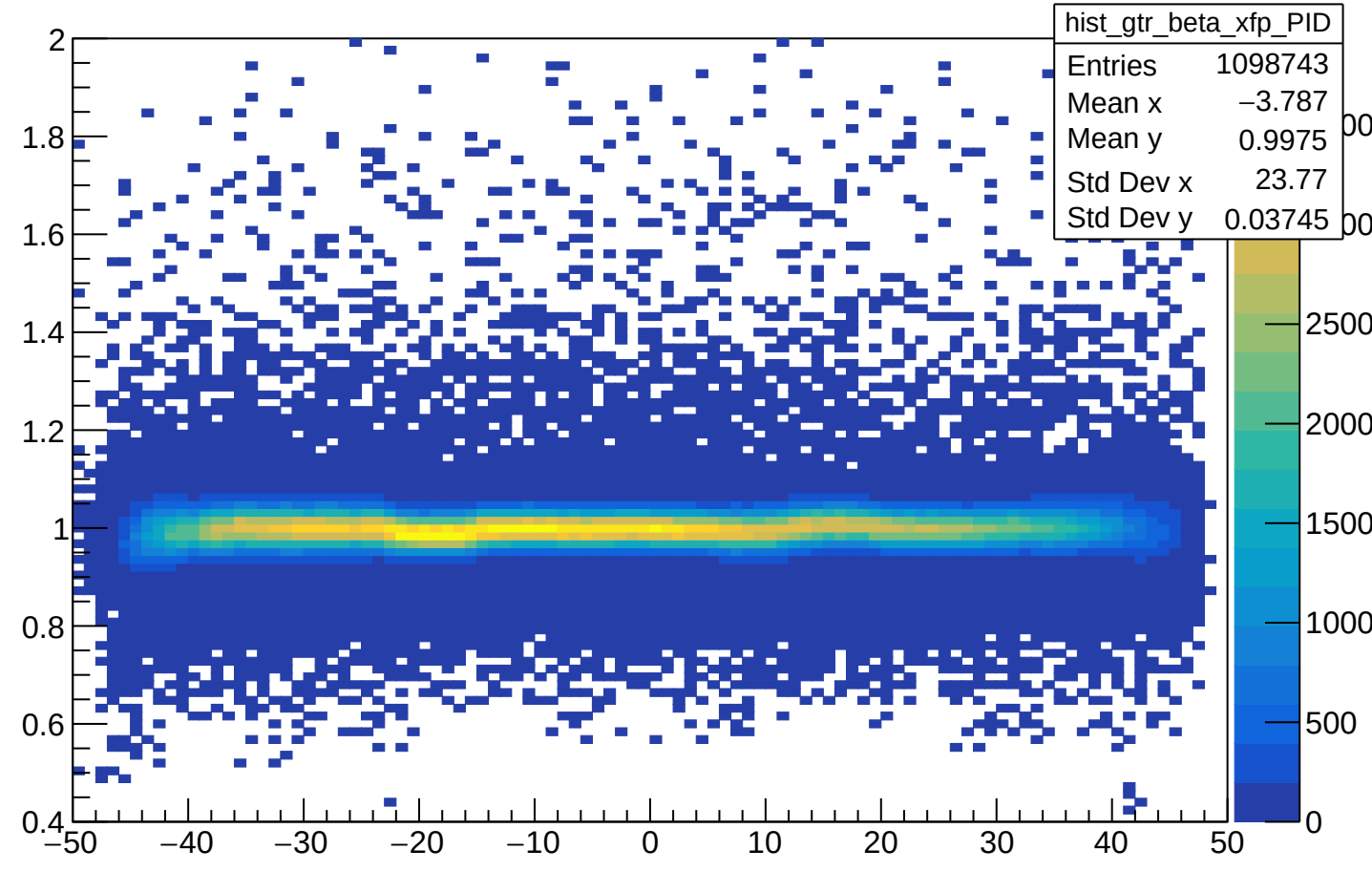

focal plane
hist_yfp_xfp
Entries 1405499
Mean x −4.311
Mean y −0.1472
Std Dev x 24.05
Std Dev y 8.134
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
1400
1200
1000
800
600
400
200
0

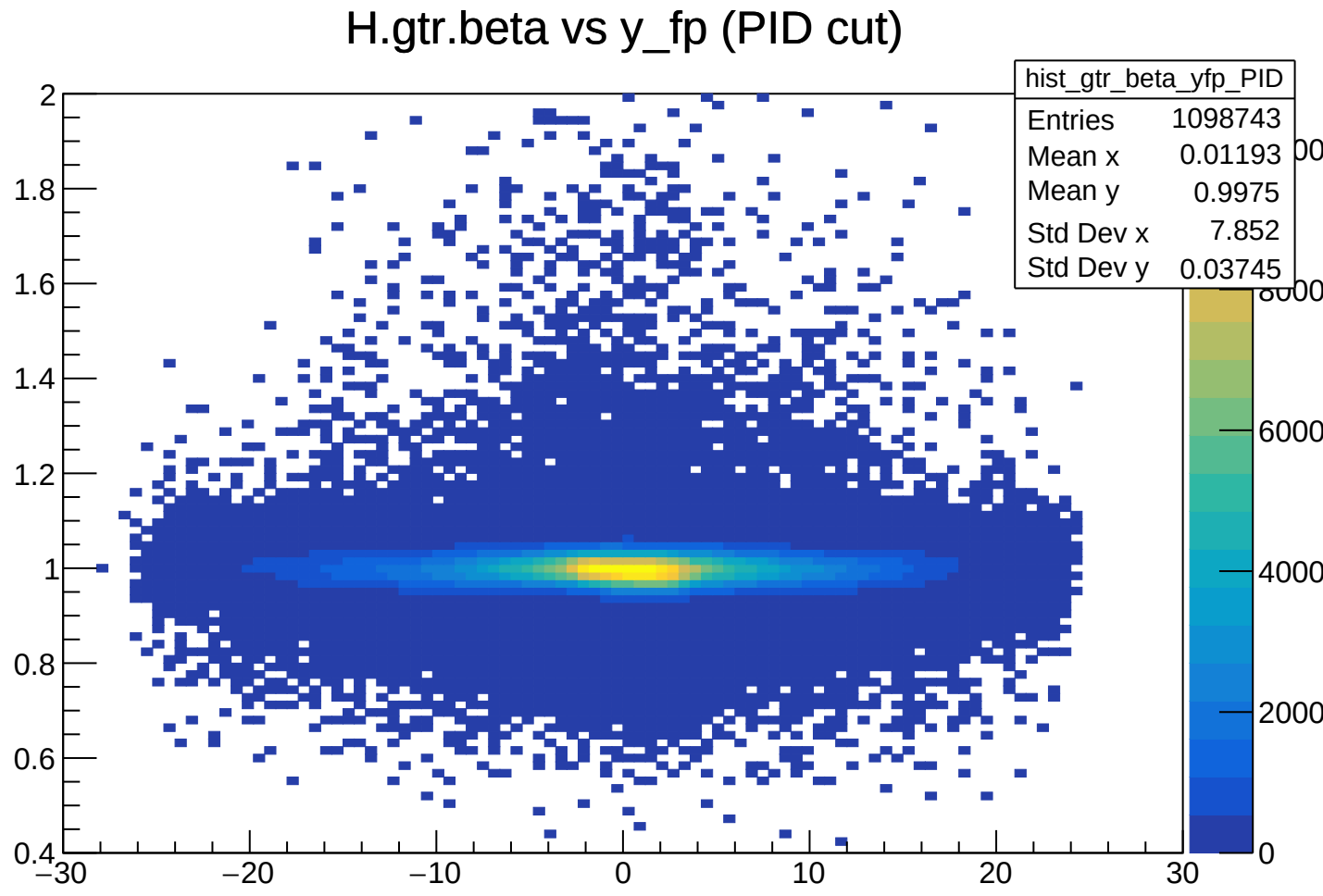

H.gtr.beta vs x_fp
hist_gtr_beta_xfp
Entries 1405499
Mean x −4.176
Mean y 0.9971
Std Dev x 24
Std Dev y 0.04071
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−50
−40
−30
−20
−10
0
10
20
30
40
50
2500
2000
1500
1000
500
0

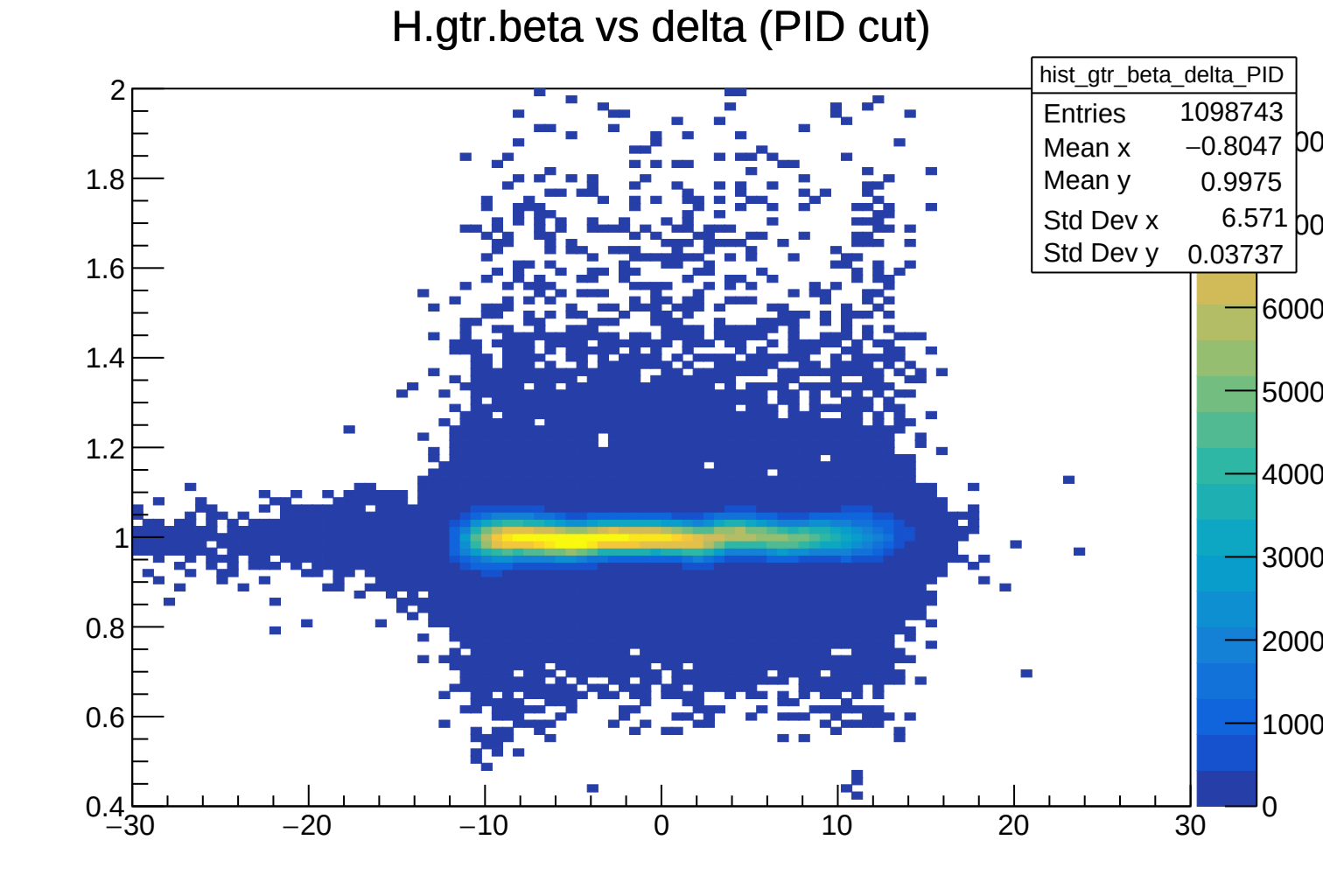

H.gtr.beta vs y_fp
hist_gtr_beta_yfp
Entries 1405499
Mean x −0.1364
Mean y 0.9971
Std Dev x 8.093
Std Dev y 0.04108
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
8000
6000
4000
2000
0

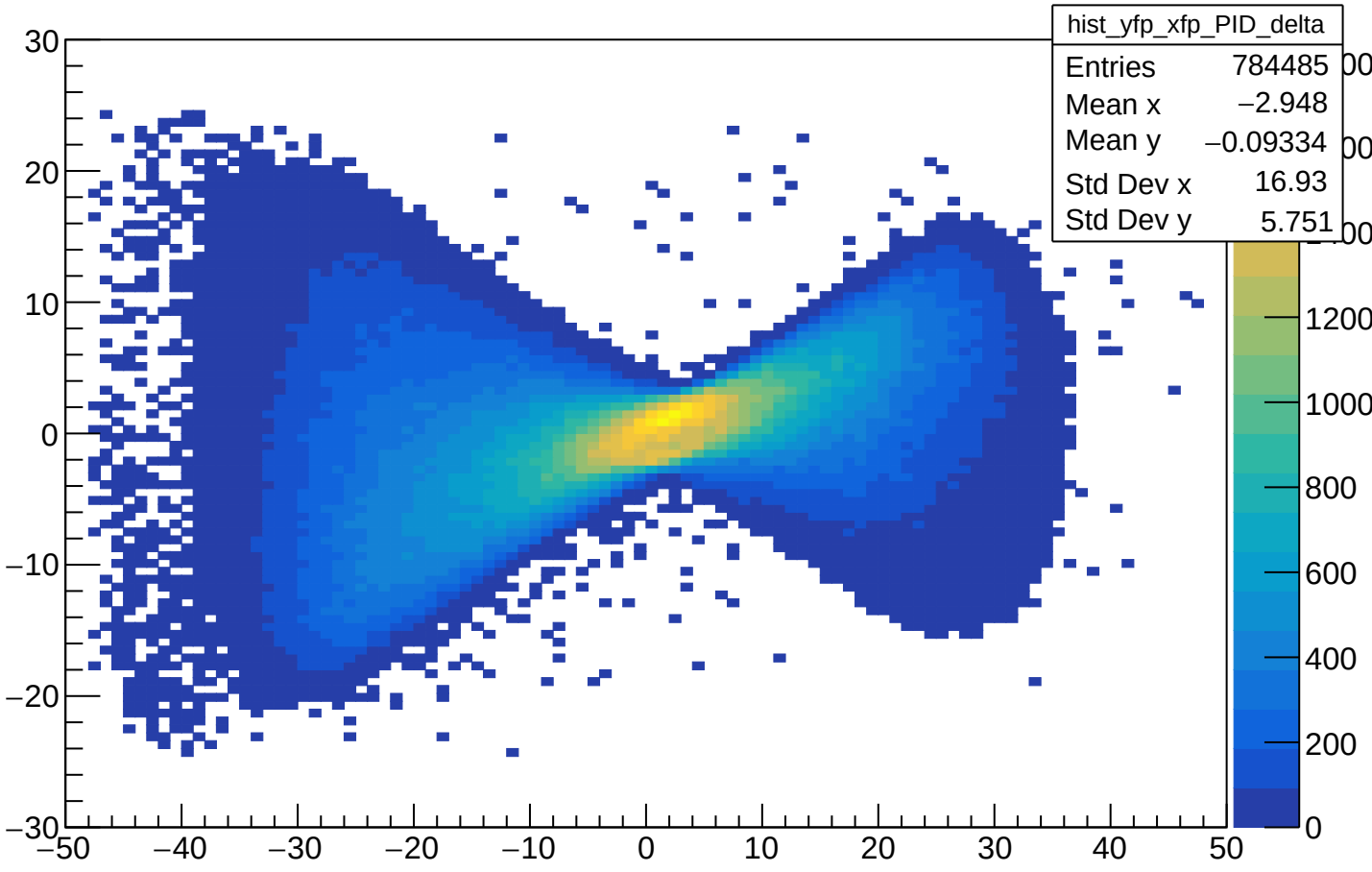

H.gtr.beta vs delta
hist_gtr_beta_delta
Entries 1405499
Mean x −0.8375
Mean y 0.9974
Std Dev x 6.615
Std Dev y 0.0385
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
6000
5000
4000
3000
2000
1000
0

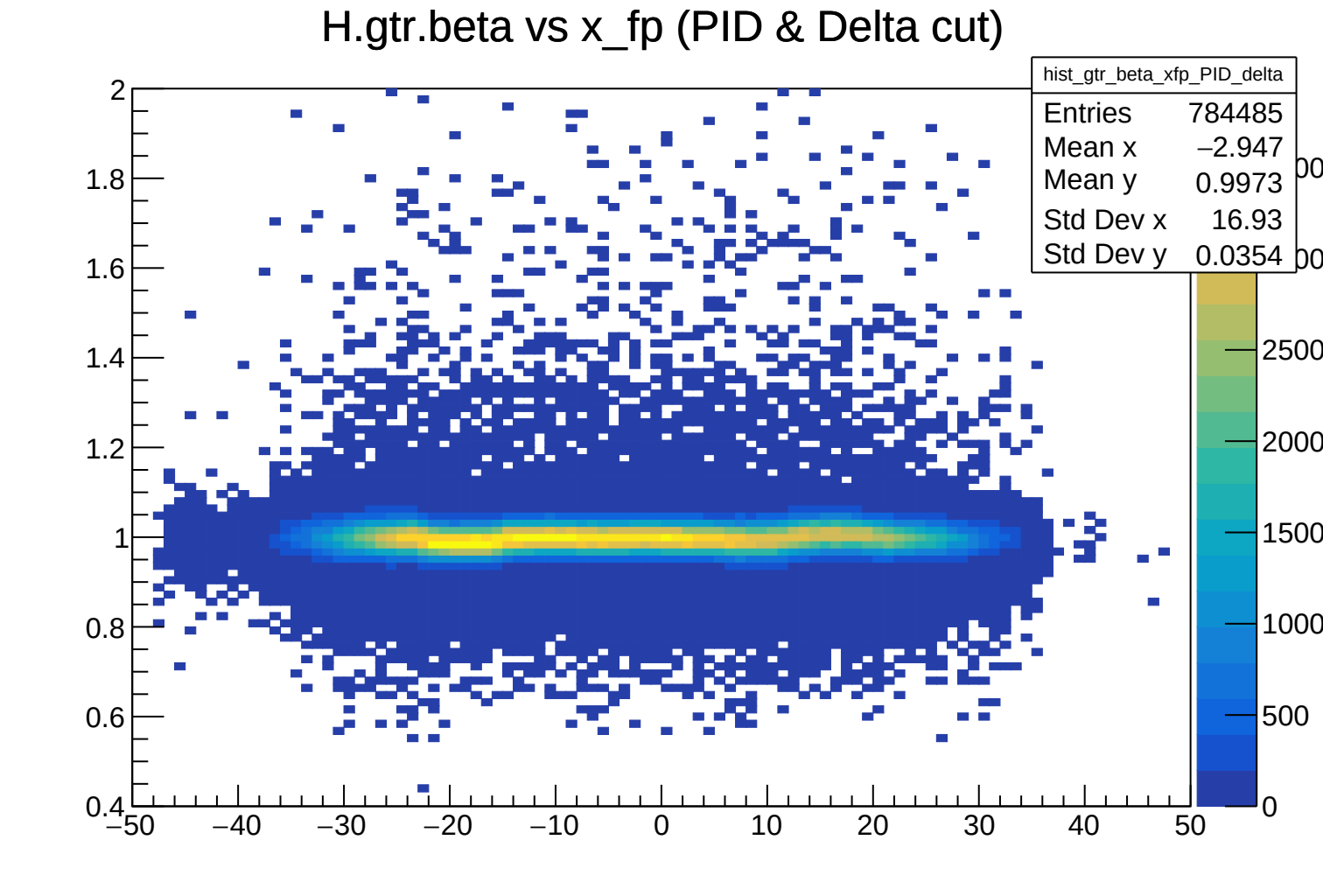

focal plane (PID cut)
hist_yfp_xfp_PID
Entries 1098743
Mean x −3.815
Mean y 0.01034
Std Dev x 23.78
Std Dev y 7.853
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
1200
1000
800
600
400
200
0

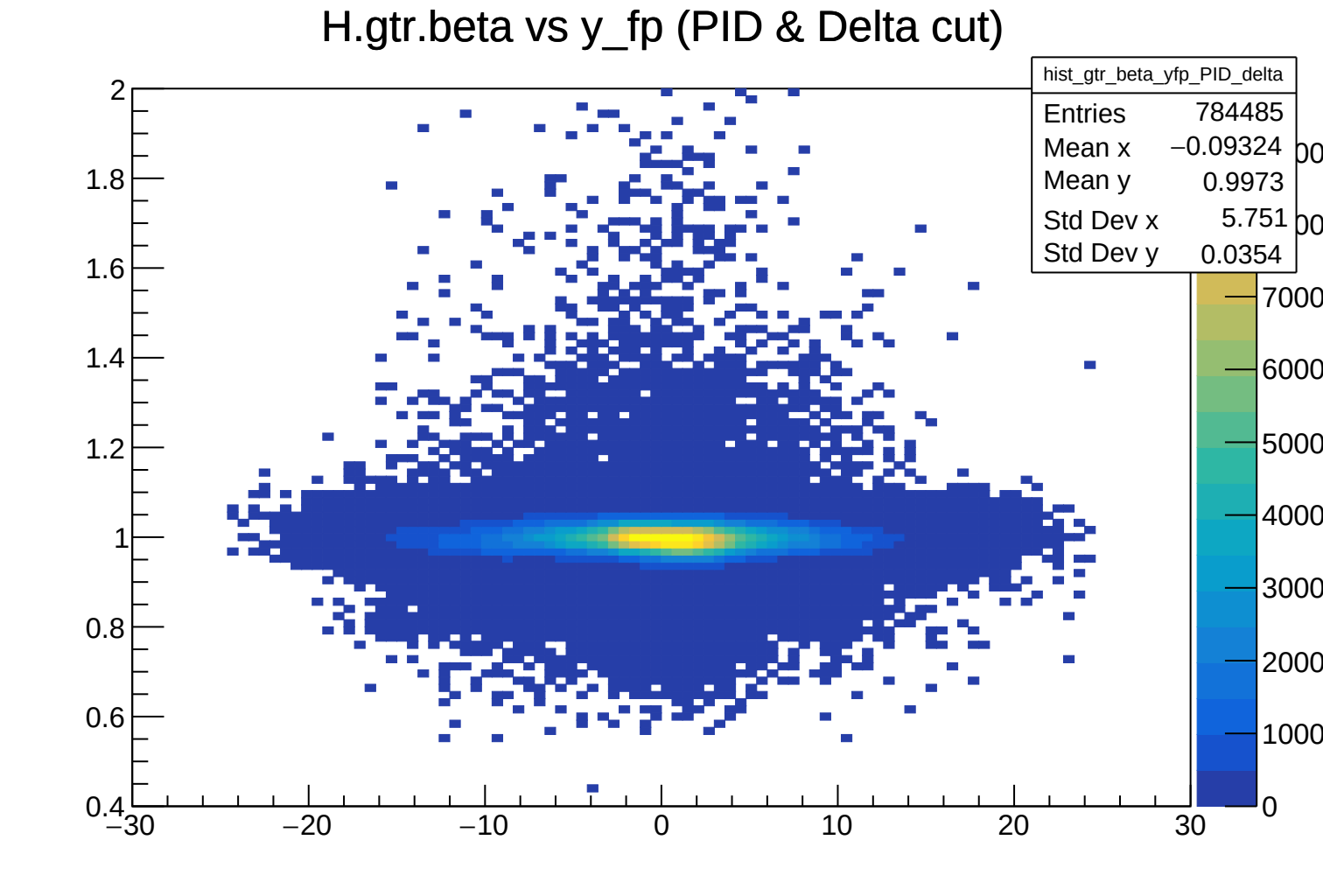

H.gtr.beta vs x_fp (PID cut)
hist_gtr_beta_xfp_PID
Entries 1098743
Mean x −3.787
Mean y 0.9975
Std Dev x 23.77
Std Dev y 0.03745
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−50
−40
−30
−20
−10
0
10
20
30
40
50
2500
2000
1500
1000
500
0

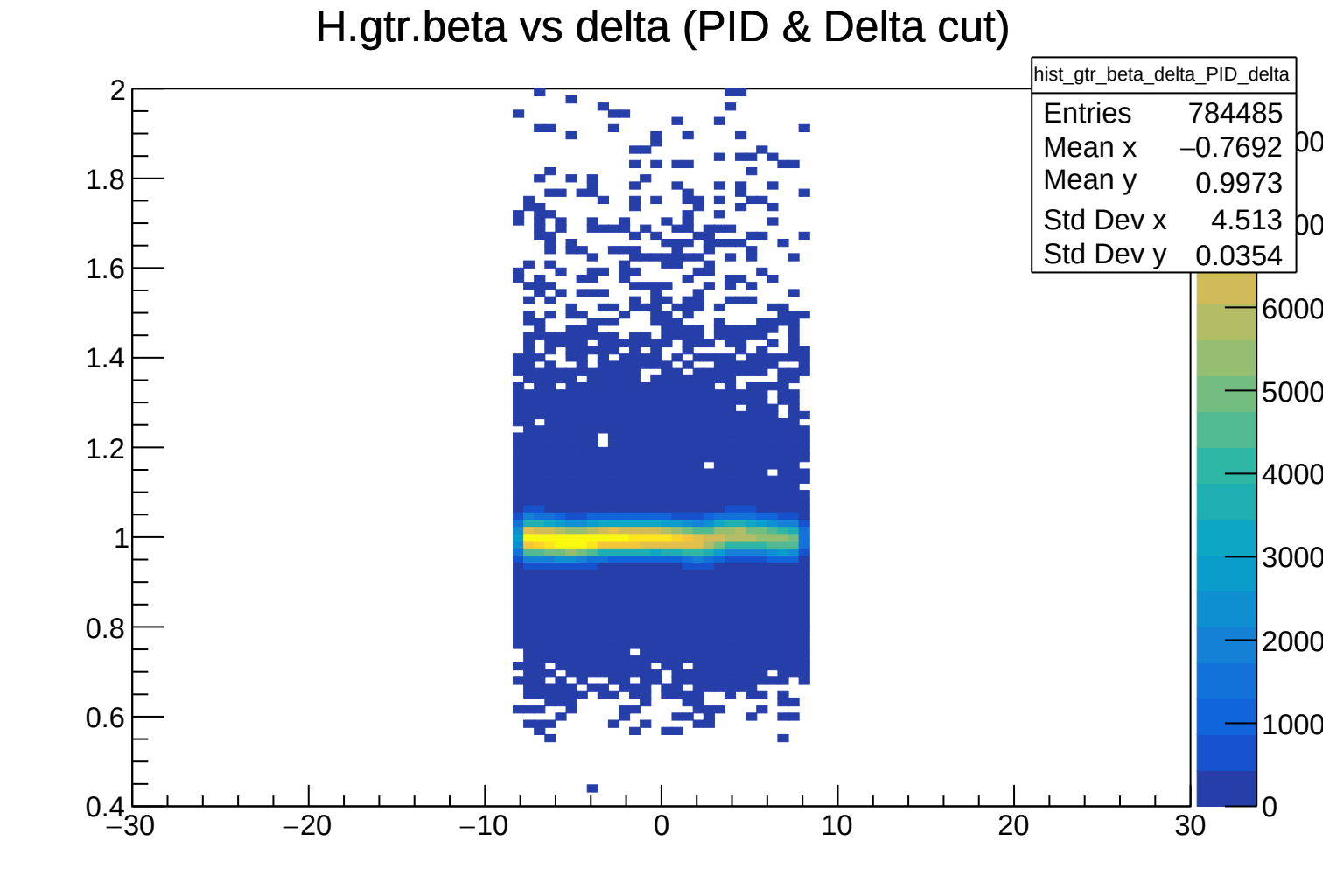

H.gtr.beta vs y_fp (PID cut)
hist_gtr_beta_yfp_PID
Entries 1098743
Mean x 0.01193
Mean y 0.9975
Std Dev x 7.852
Std Dev y 0.03745
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
8000
6000
4000
2000
0


H.gtr.beta vs delta (PID cut)
hist_gtr_beta_delta_PID
Entries 1098743
Mean x −0.8047
Mean y 0.9975
Std Dev x 6.571
Std Dev y 0.03737
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 784485
Mean x −2.948
Mean y −0.09334
Std Dev x 16.93
Std Dev y 5.751
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 (PID & Delta cut)
hist_gtr_beta_xfp_PID_delta
Entries 784485
Mean x –2.947
Mean y 0.9973
Std Dev x 16.93
Std Dev y 0.0354
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 784485
Mean x −0.09324
Mean y 0.9973
Std Dev x 5.751
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
7000
6000
5000
4000
3000
2000
1000
0


H.gtr.beta vs delta (PID & Delta cut)
hist_gtr_beta_delta_PID_delta
Entries 784485
Mean x −0.7692
Mean y 0.9973
Std Dev x 4.513
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
6000
5000
4000
3000
2000
1000
0