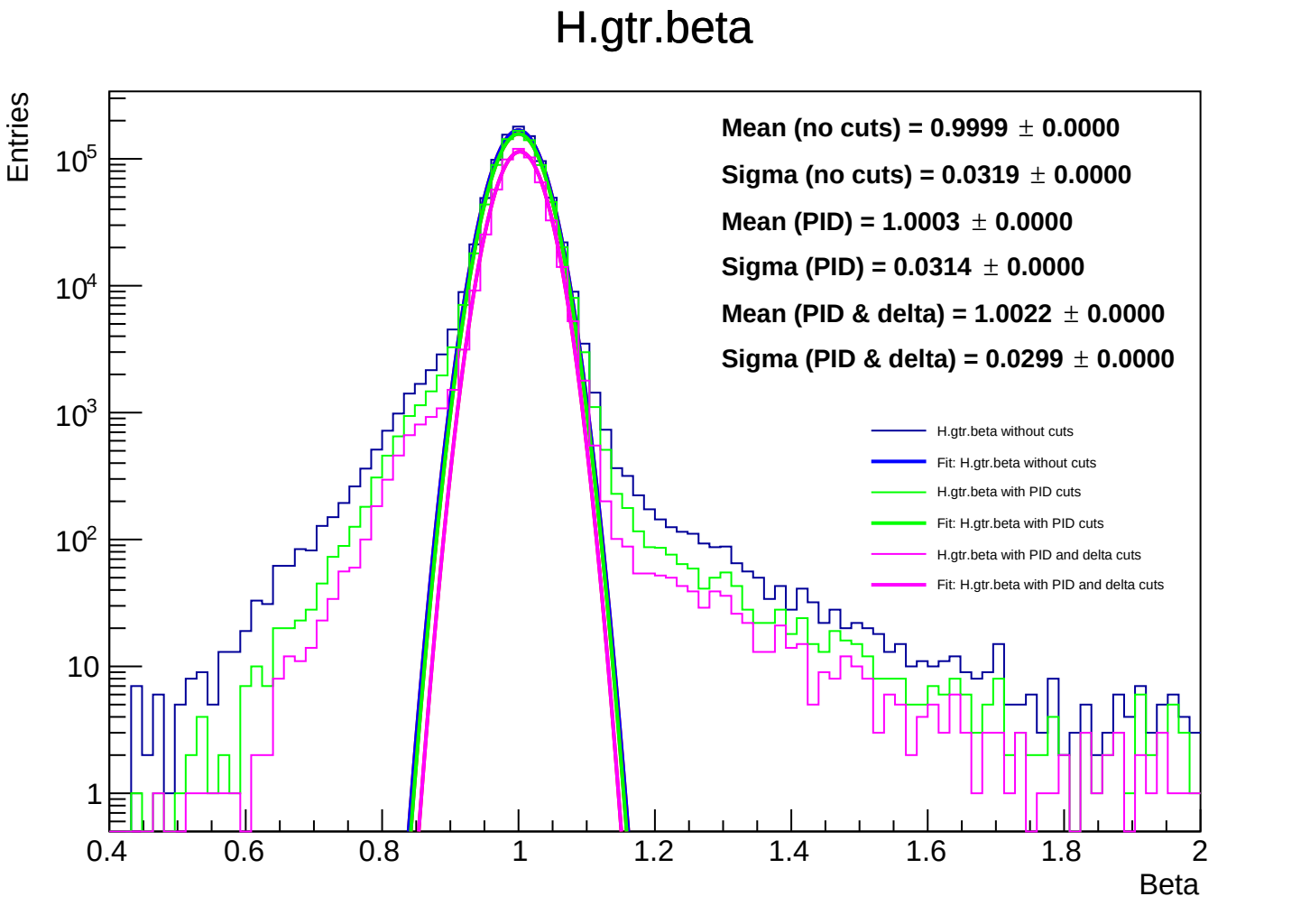
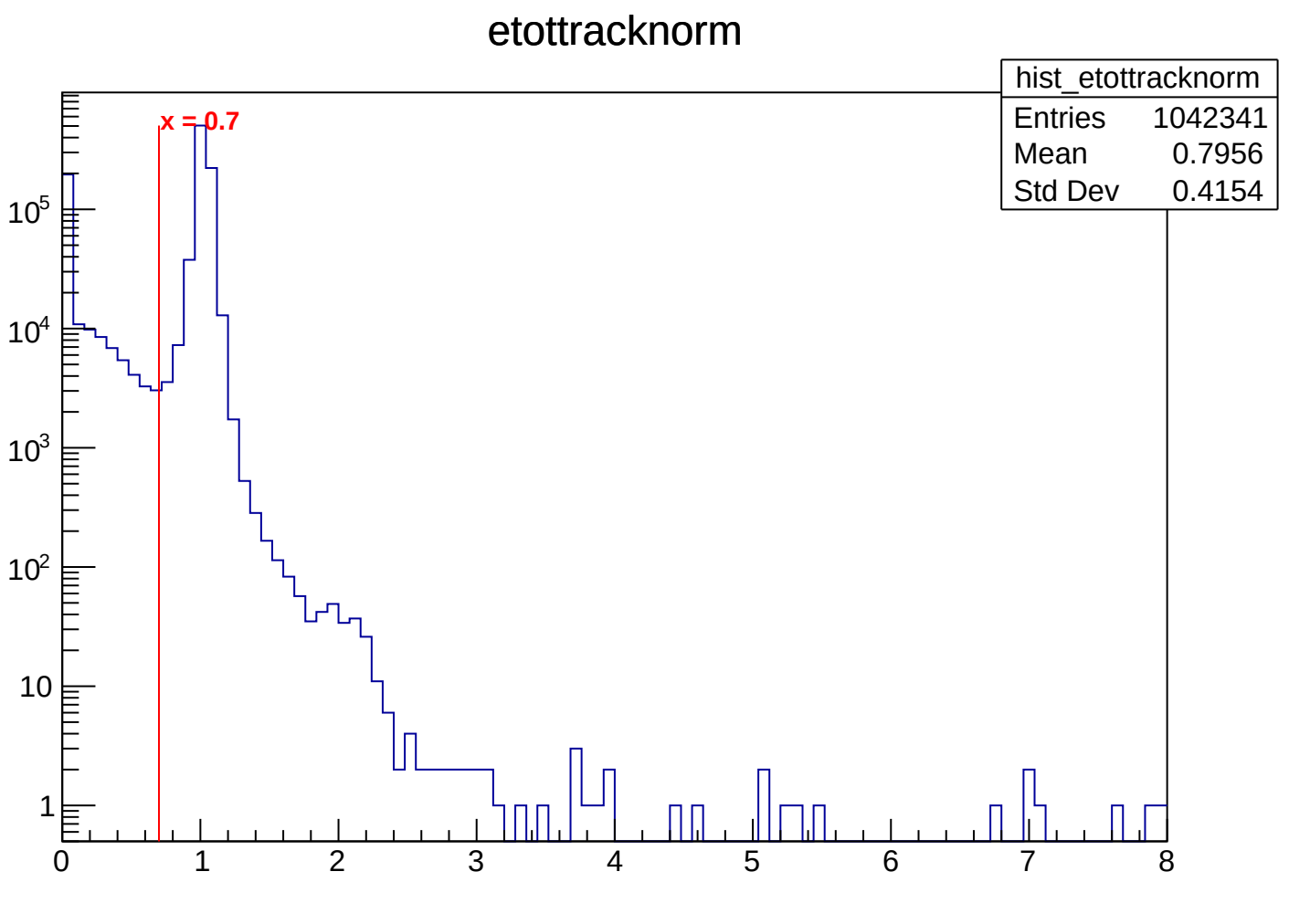
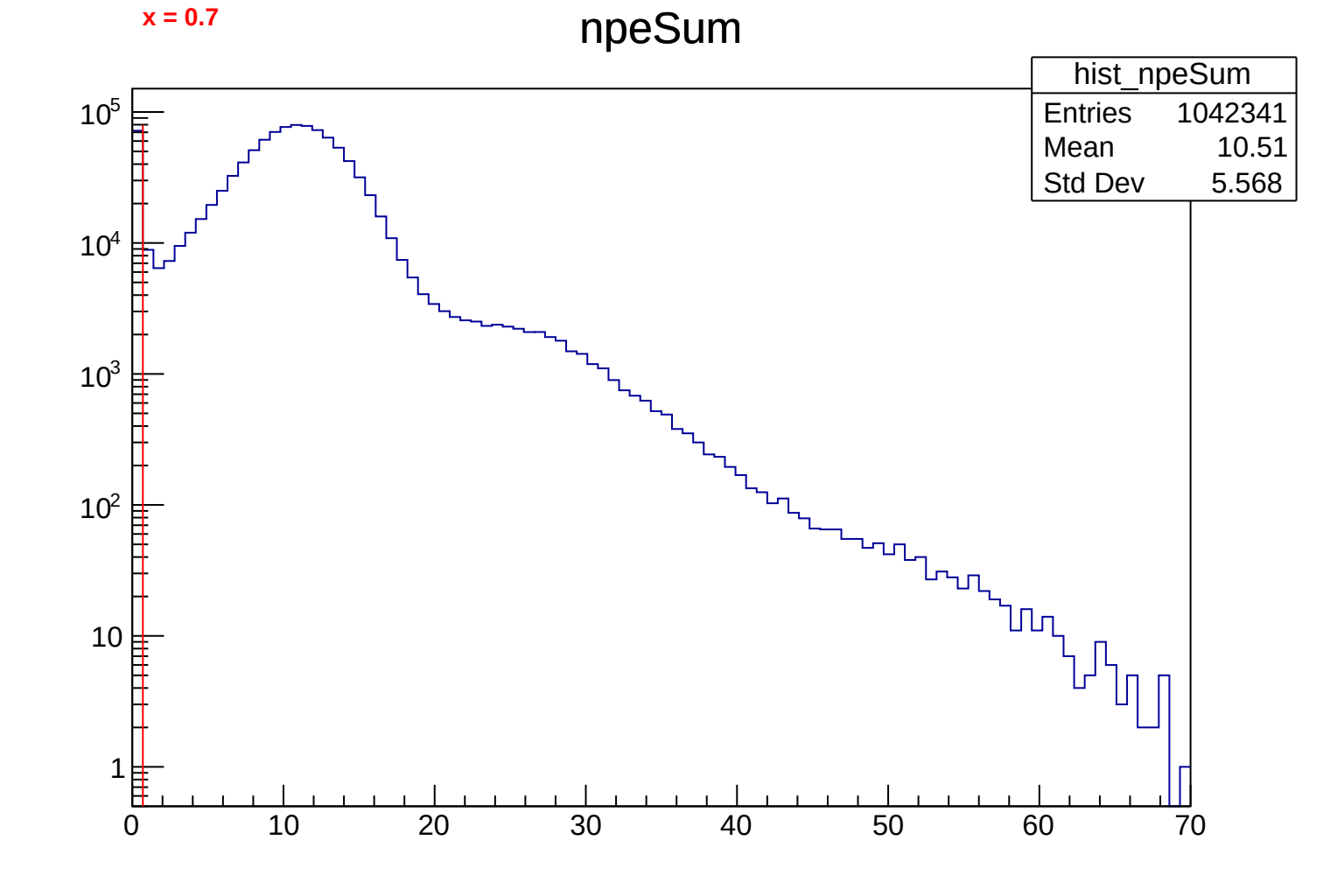
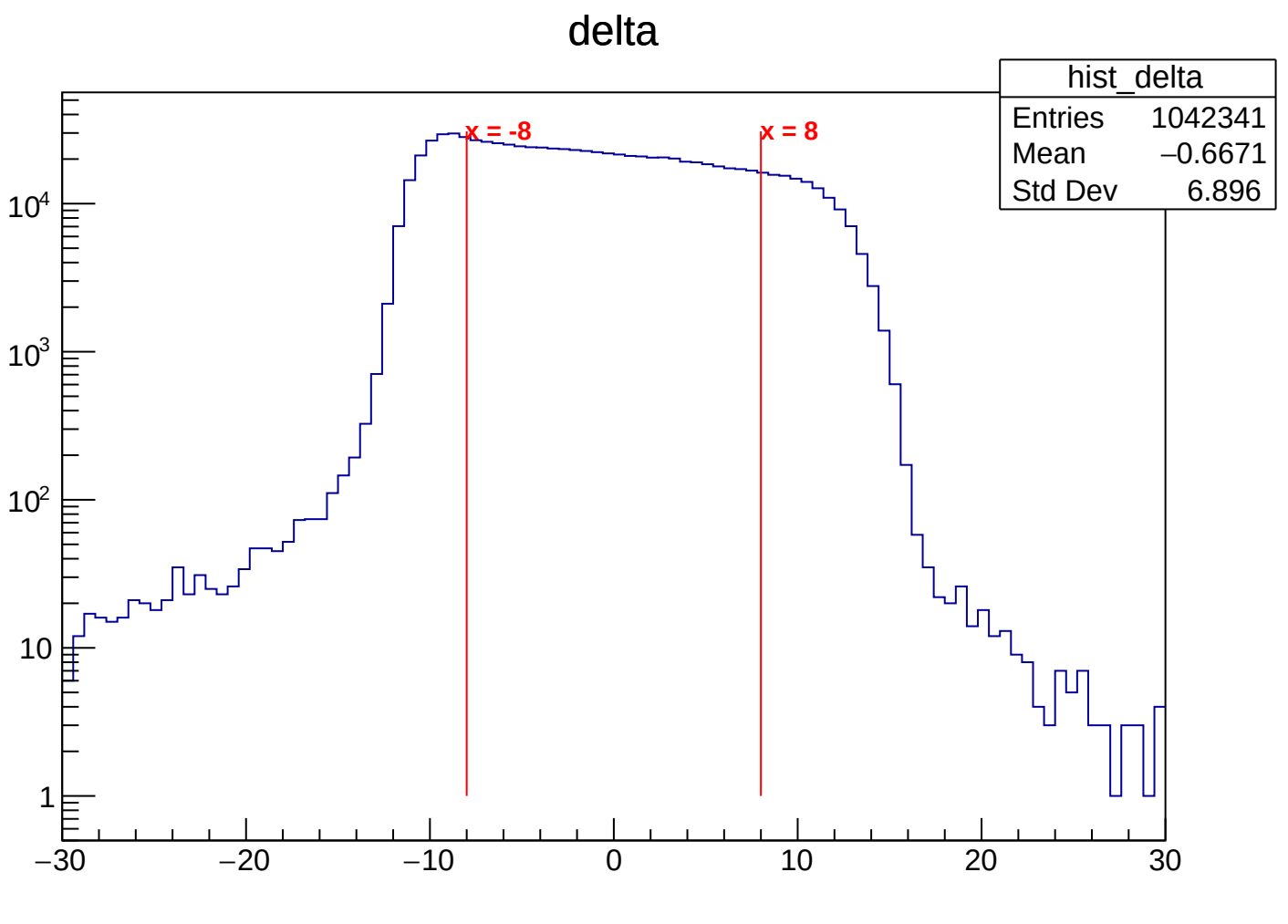
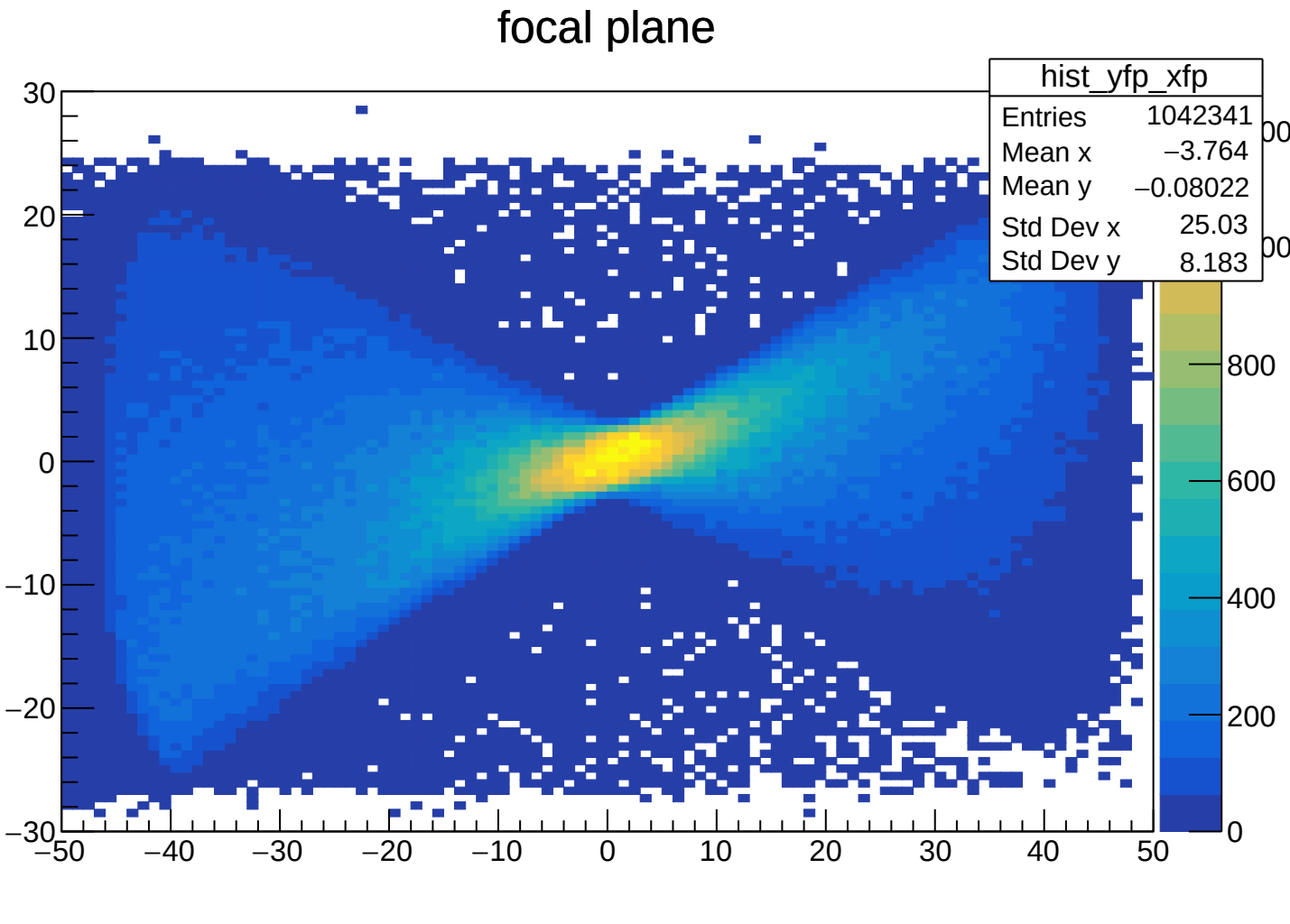
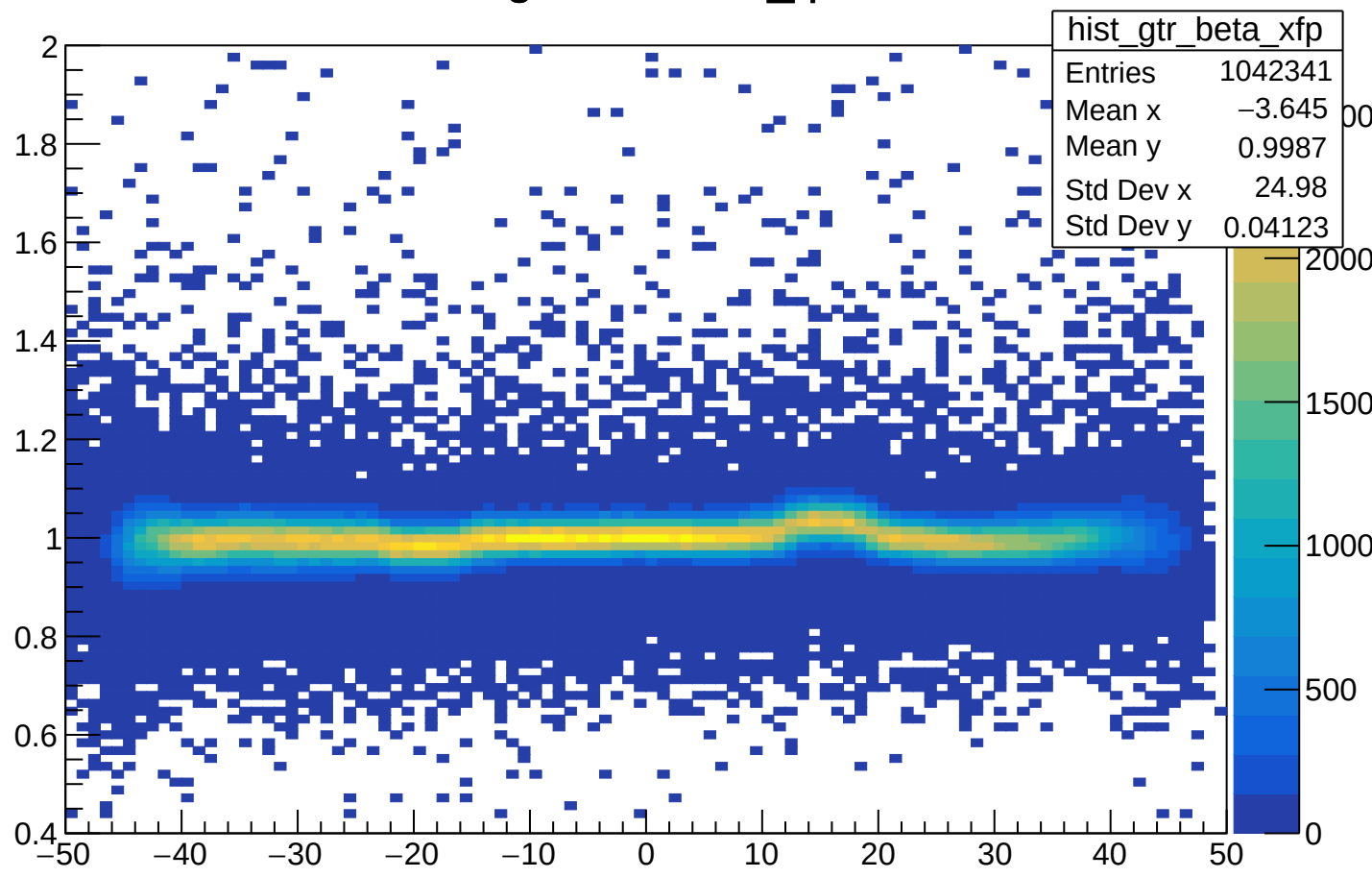

H.gtr.beta
Entries
Beta
Mean (no cuts) = 0.9999 ± 0.0000
Sigma (no cuts) = 0.0319 ± 0.0000
Mean (PID) = 1.0003 ± 0.0000
Sigma (PID) = 0.0314 ± 0.0000
Mean (PID & delta) = 1.0022 ± 0.0000
Sigma (PID & delta) = 0.0299 ± 0.0000
H.gtr.beta without cuts
Fit: H.gtr.beta without cuts
H.gtr.beta with PID cuts
Fit: H.gtr.beta with PID cuts
H.gtr.beta with PID and delta cuts
Fit: H.gtr.beta with PID and delta cuts

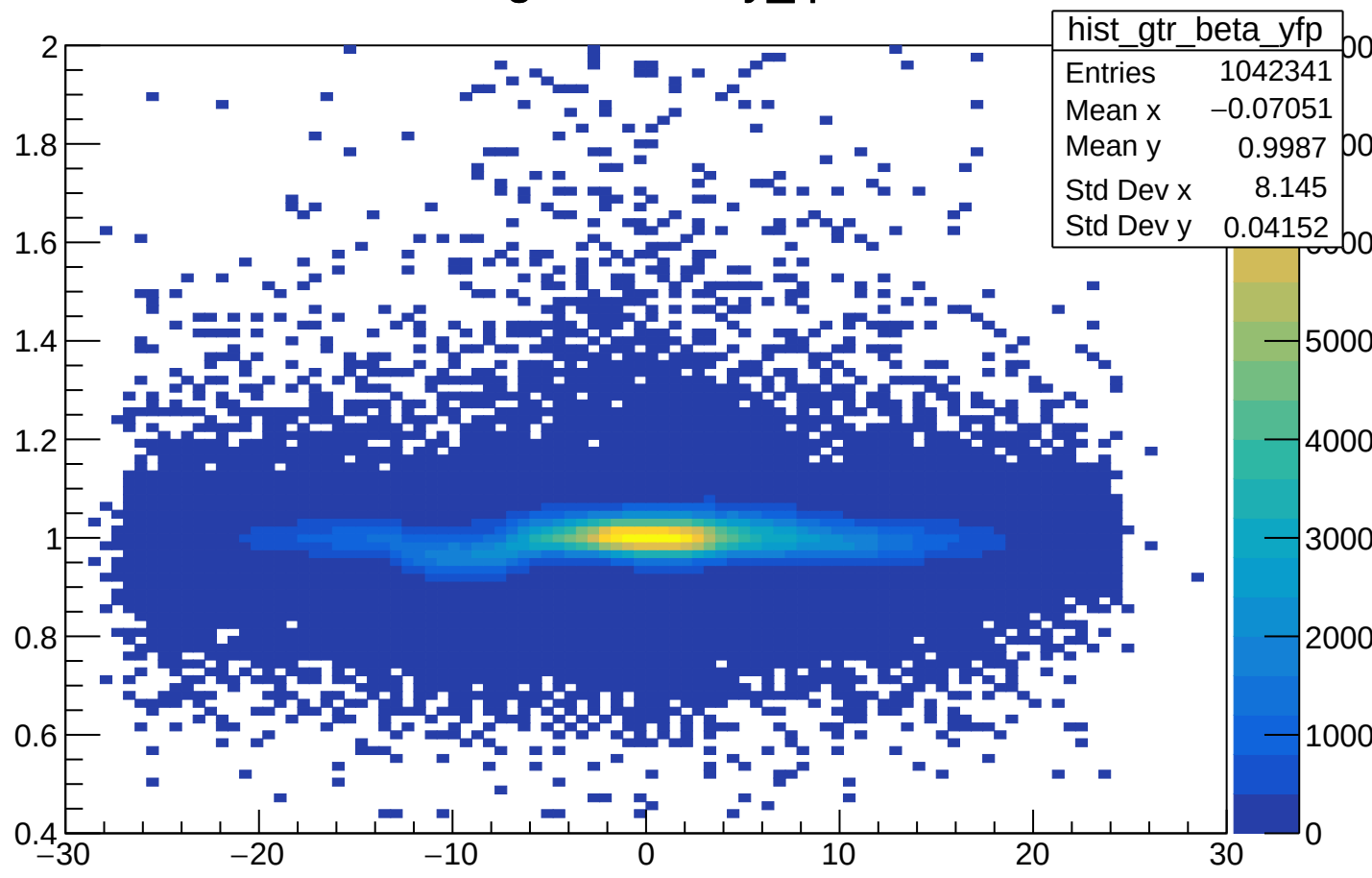

etottracknorm
hist_etottracknorm
Entries 1042341
Mean 0.7956
Std Dev 0.4154
x = 0.7
10^5
10^4
10^3
10^2
10
1
0
1
2
3
4
5
6
7
8

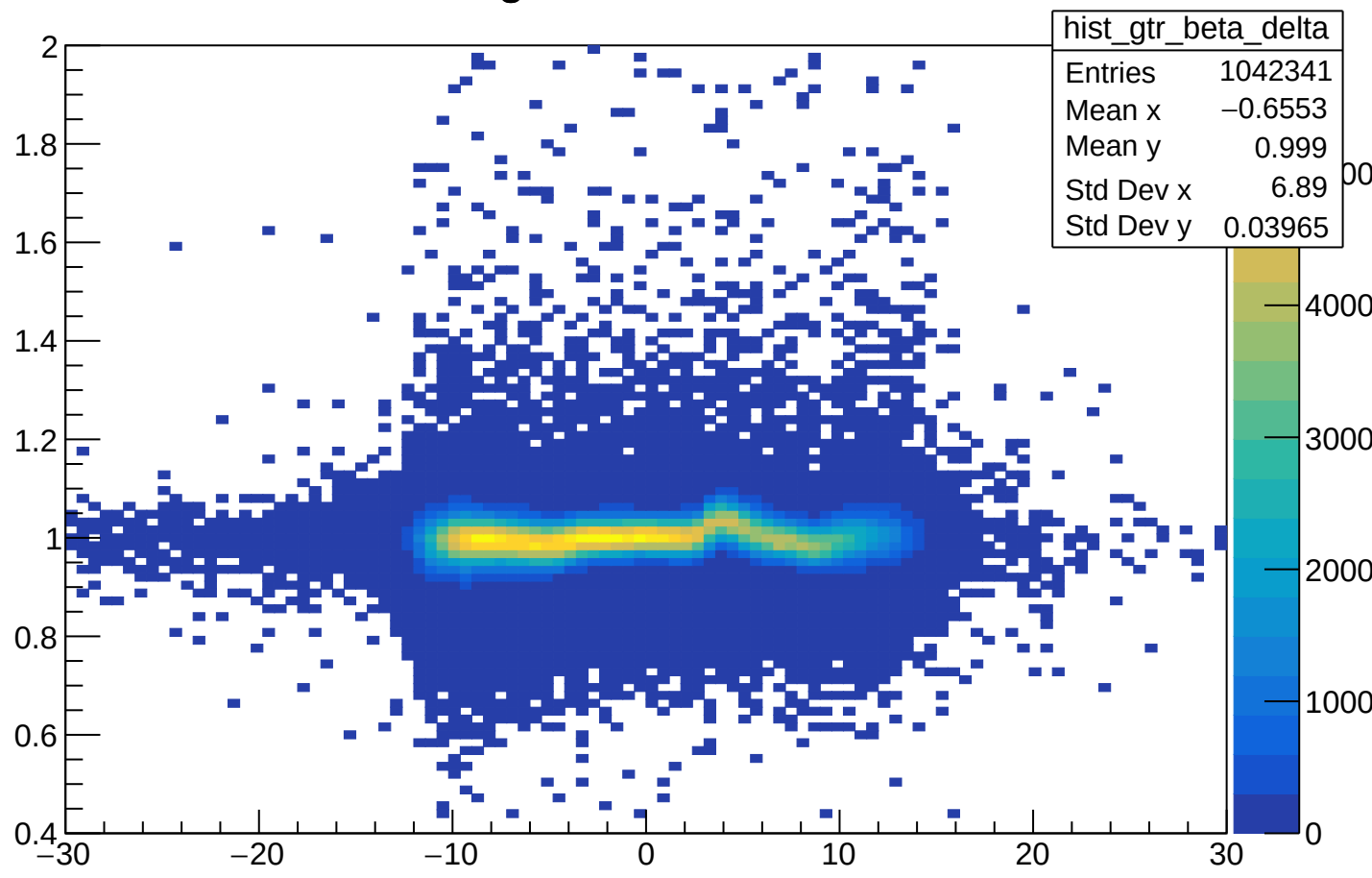

x = 0.7
npeSum
hist_npeSum
Entries 1042341
Mean 10.51
Std Dev 5.568
10^5
10^4
10^3
10^2
10
1
0
10
20
30
40
50
60
70

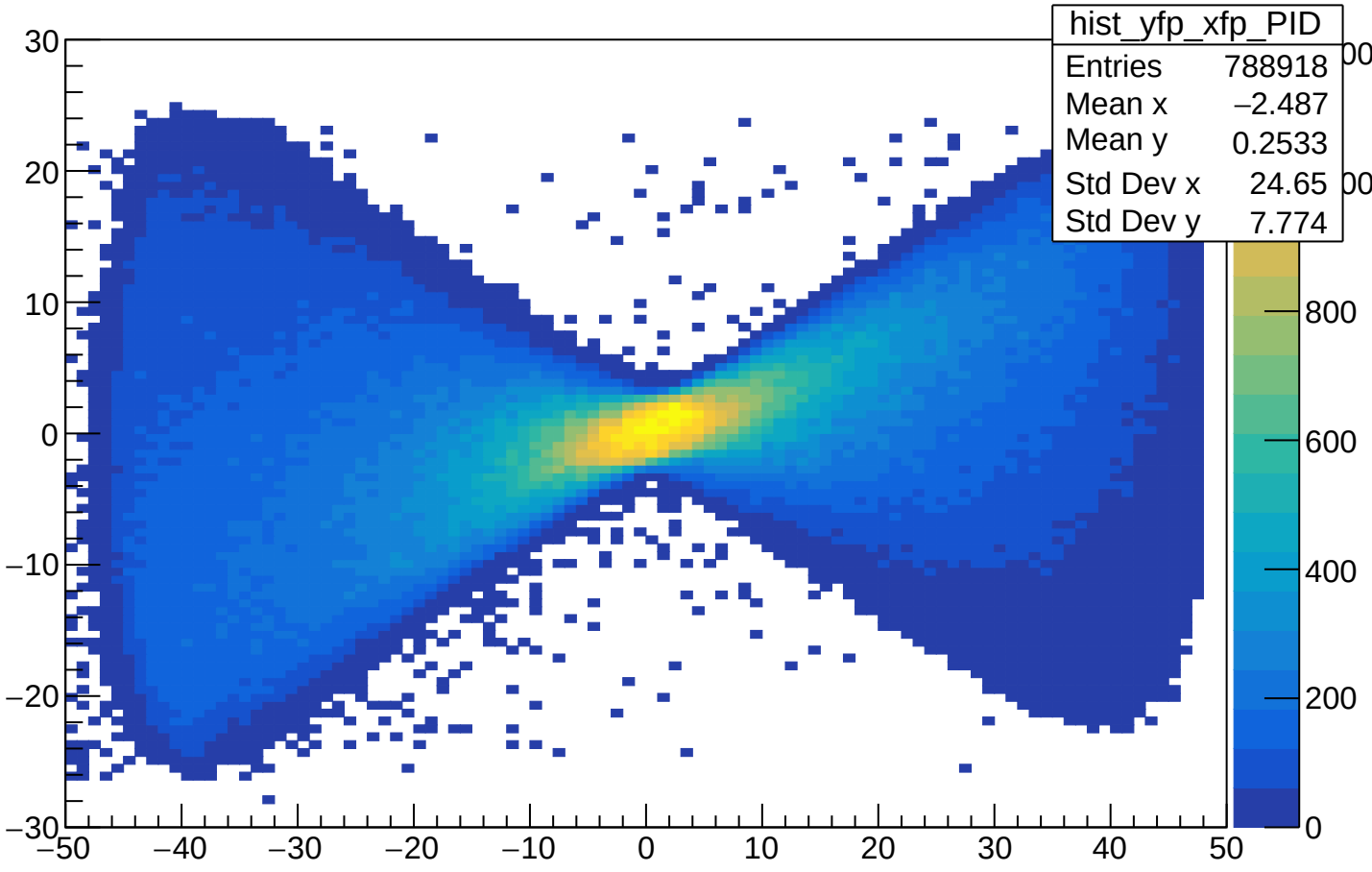

delta
hist_delta
Entries 1042341
Mean –0.6671
Std Dev 6.896
x = -8
x = 8
10^4
10^3
10^2
10
1
–30
–20
–10
0
10
20
30

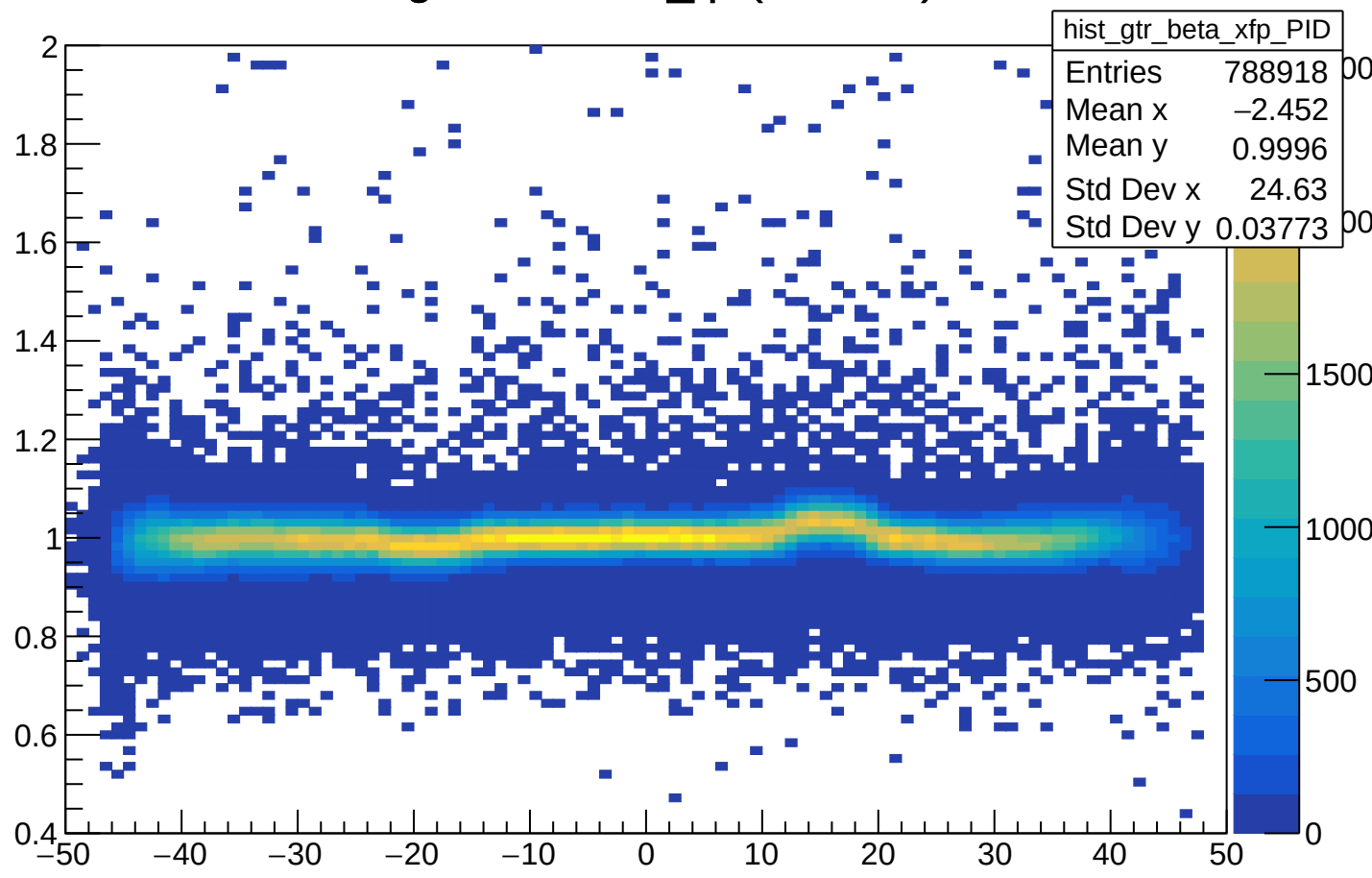

focal plane
hist_yfp_xfp
Entries 1042341
Mean x −3.764
Mean y −0.08022
Std Dev x 25.03
Std Dev y 8.183
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
800
600
400
200
0

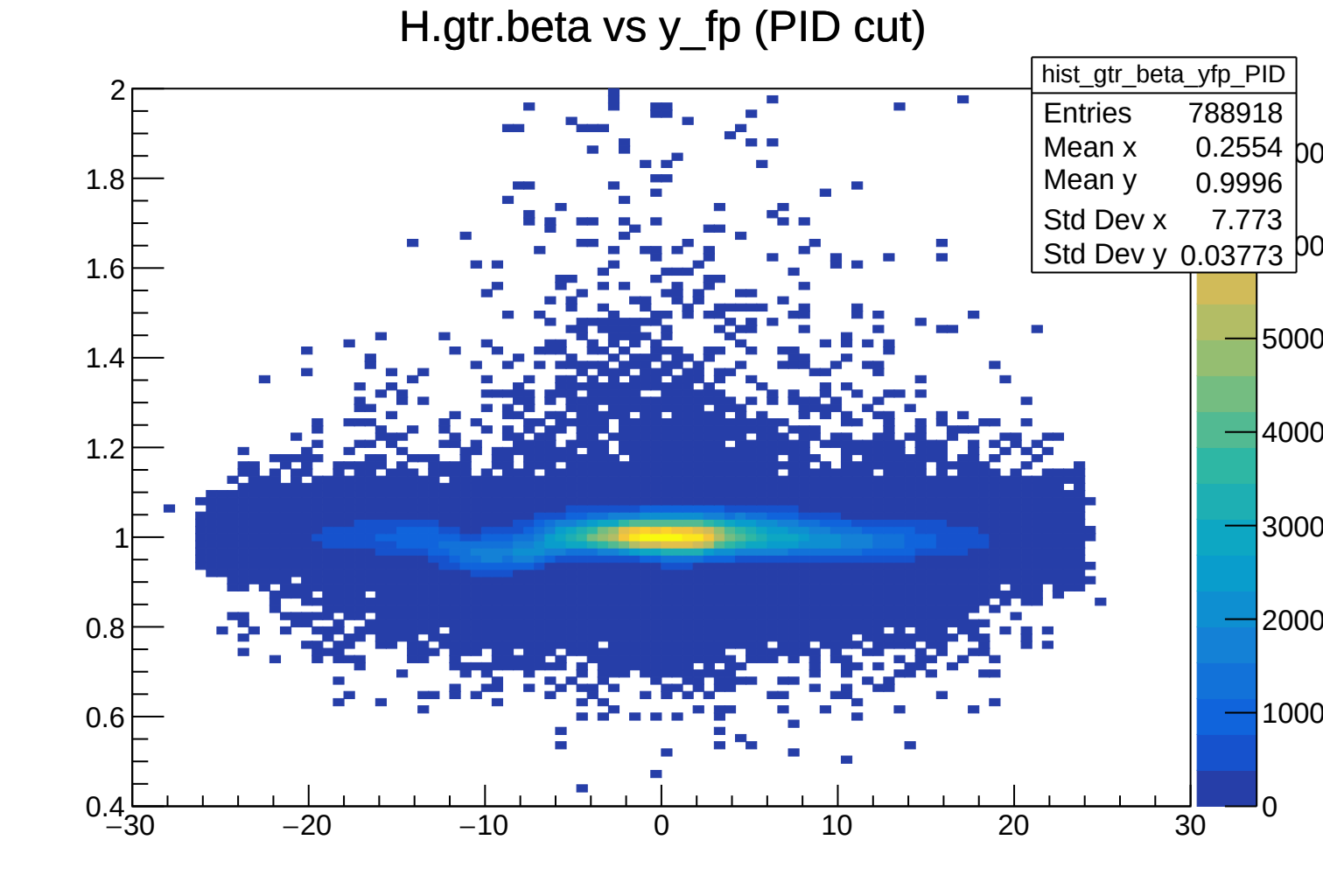

H.gtr.beta vs x_fp
hist_gtr_beta_xfp
Entries 1042341
Mean x −3.645
Mean y 0.9987
Std Dev x 24.98
Std Dev y 0.04123
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−50
−40
−30
−20
−10
0
10
20
30
40
50
2000
1500
1000
500
0

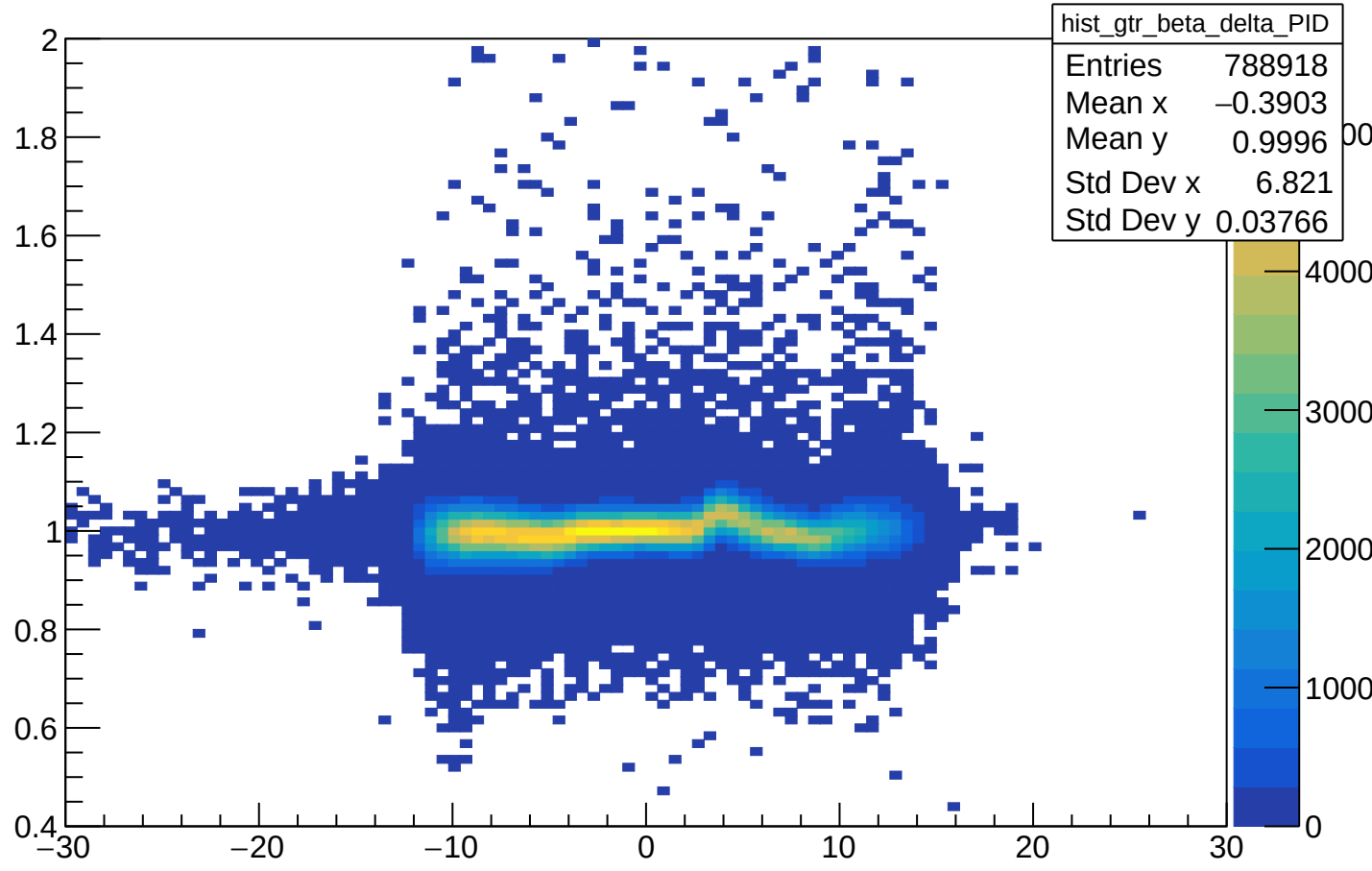

H.gtr.beta vs y_fp
hist_gtr_beta_yfp
Entries 1042341
Mean x −0.07051
Mean y 0.9987
Std Dev x 8.145
Std Dev y 0.04152
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
5000
4000
3000
2000
1000
0

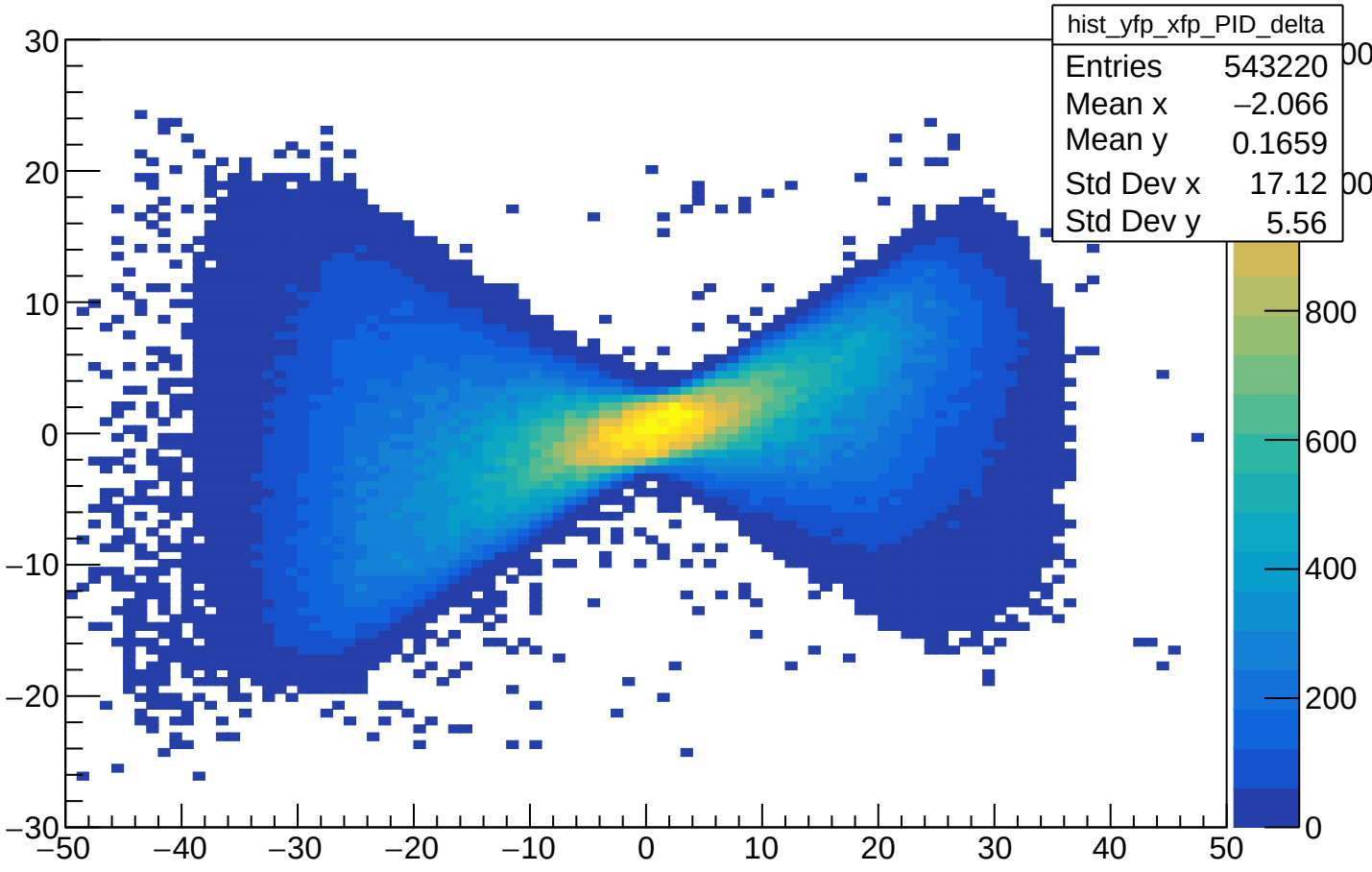

H.gtr.beta vs delta
hist_gtr_beta_delta
Entries 1042341
Mean x −0.6553
Mean y 0.999
Std Dev x 6.89
Std Dev y 0.03965
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
4000
3000
2000
1000
0

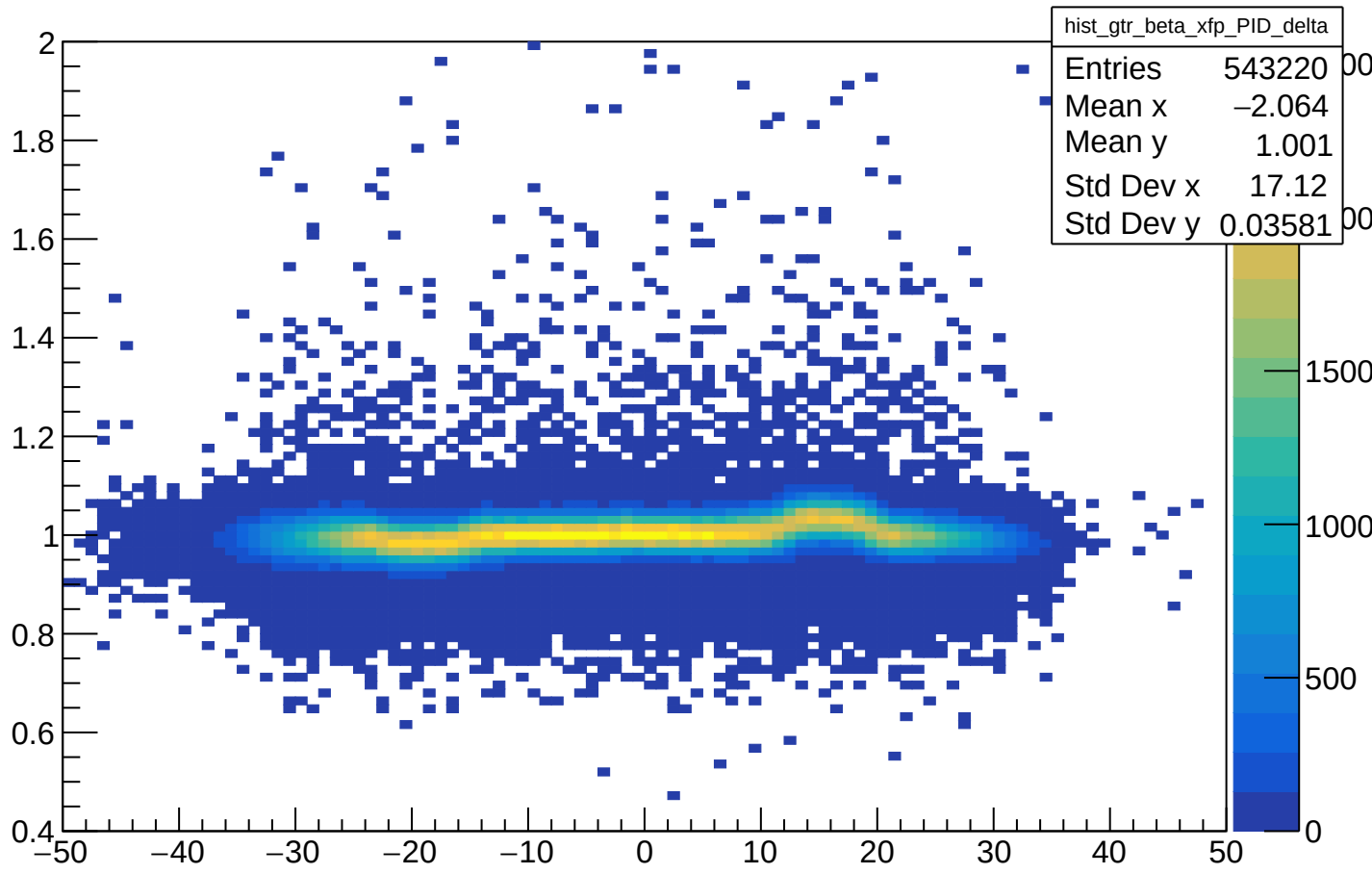

focal plane (PID cut)
hist_yfp_xfp_PID
Entries 788918
Mean x −2.487
Mean y 0.2533
Std Dev x 24.65
Std Dev y 7.774
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
800
600
400
200
0

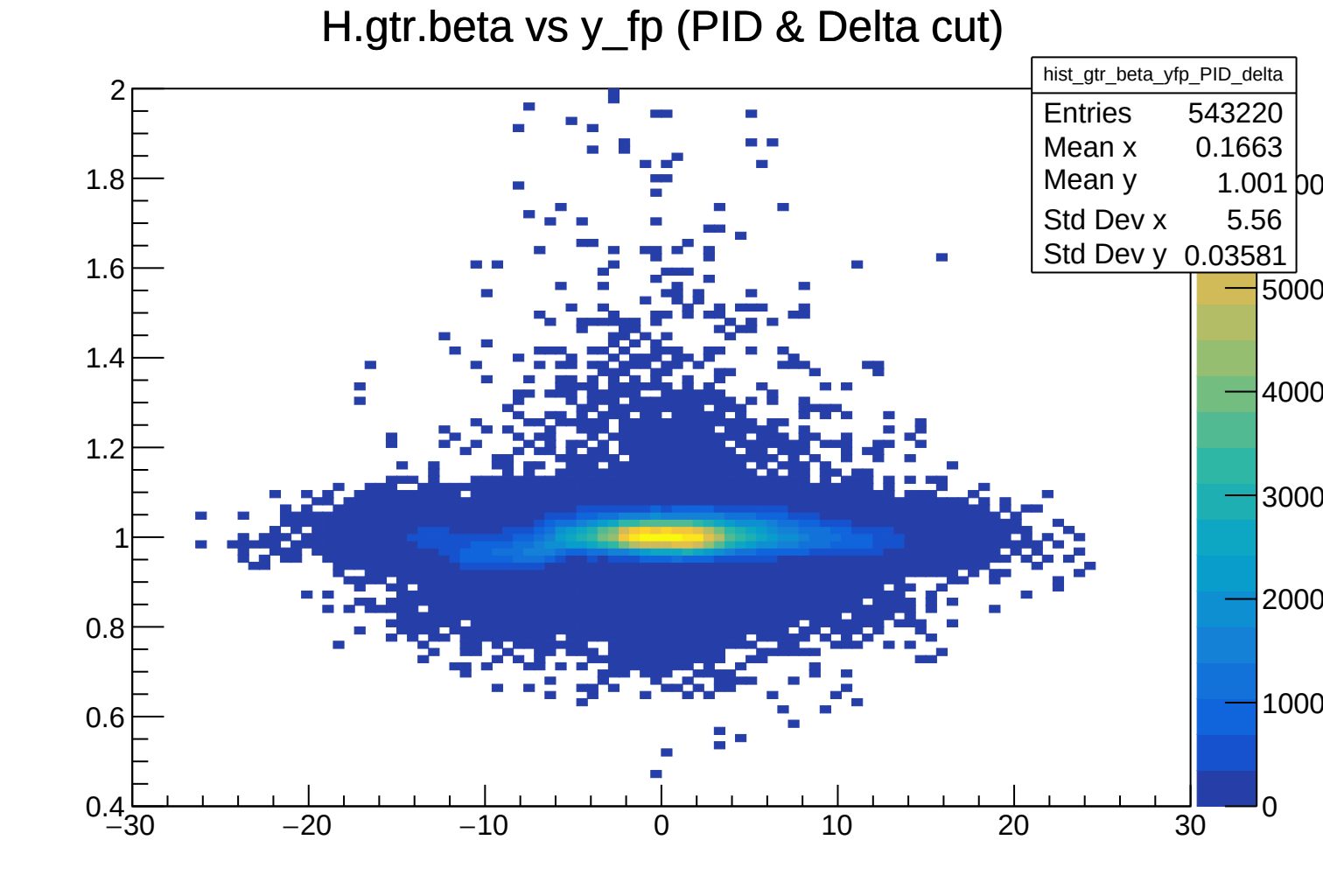

H.gtr.beta vs x_fp (PID cut)
hist_gtr_beta_xfp_PID
Entries 788918
Mean x −2.452
Mean y 0.9996
Std Dev x 24.63
Std Dev y 0.03773
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−50
−40
−30
−20
−10
0
10
20
30
40
50
1500
1000
500
0

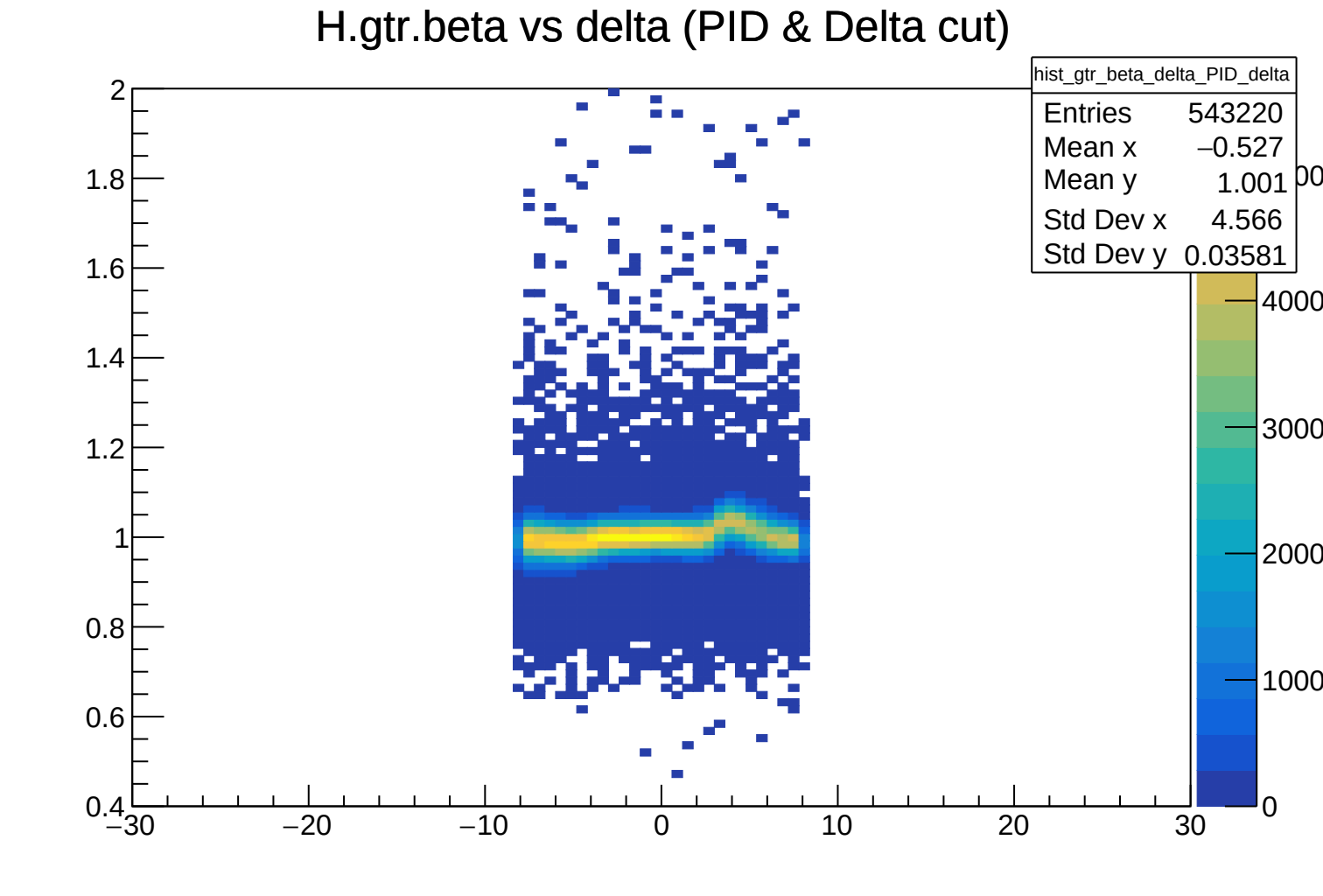

H.gtr.beta vs y_fp (PID cut)
hist_gtr_beta_yfp_PID
Entries 788918
Mean x 0.2554
Mean y 0.9996
Std Dev x 7.773
Std Dev y 0.03773
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
5000
4000
3000
2000
1000
0


H.gtr.beta vs delta (PID cut)
hist_gtr_beta_delta_PID
Entries 788918
Mean x −0.3903
Mean y 0.9996
Std Dev x 6.821
Std Dev y 0.03766
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 543220
Mean x −2.066
Mean y 0.1659
Std Dev x 17.12
Std Dev y 5.56
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 (PID & Delta cut)
hist_gtr_beta_xfp_PID_delta
Entries 543220
Mean x −2.064
Mean y 1.001
Std Dev x 17.12
Std Dev y 0.03581
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 543220
Mean x 0.1663
Mean y 1.001
Std Dev x 5.56
Std Dev y 0.03581
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 543220
Mean x −0.527
Mean y 1.001
Std Dev x 4.566
Std Dev y 0.03581
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