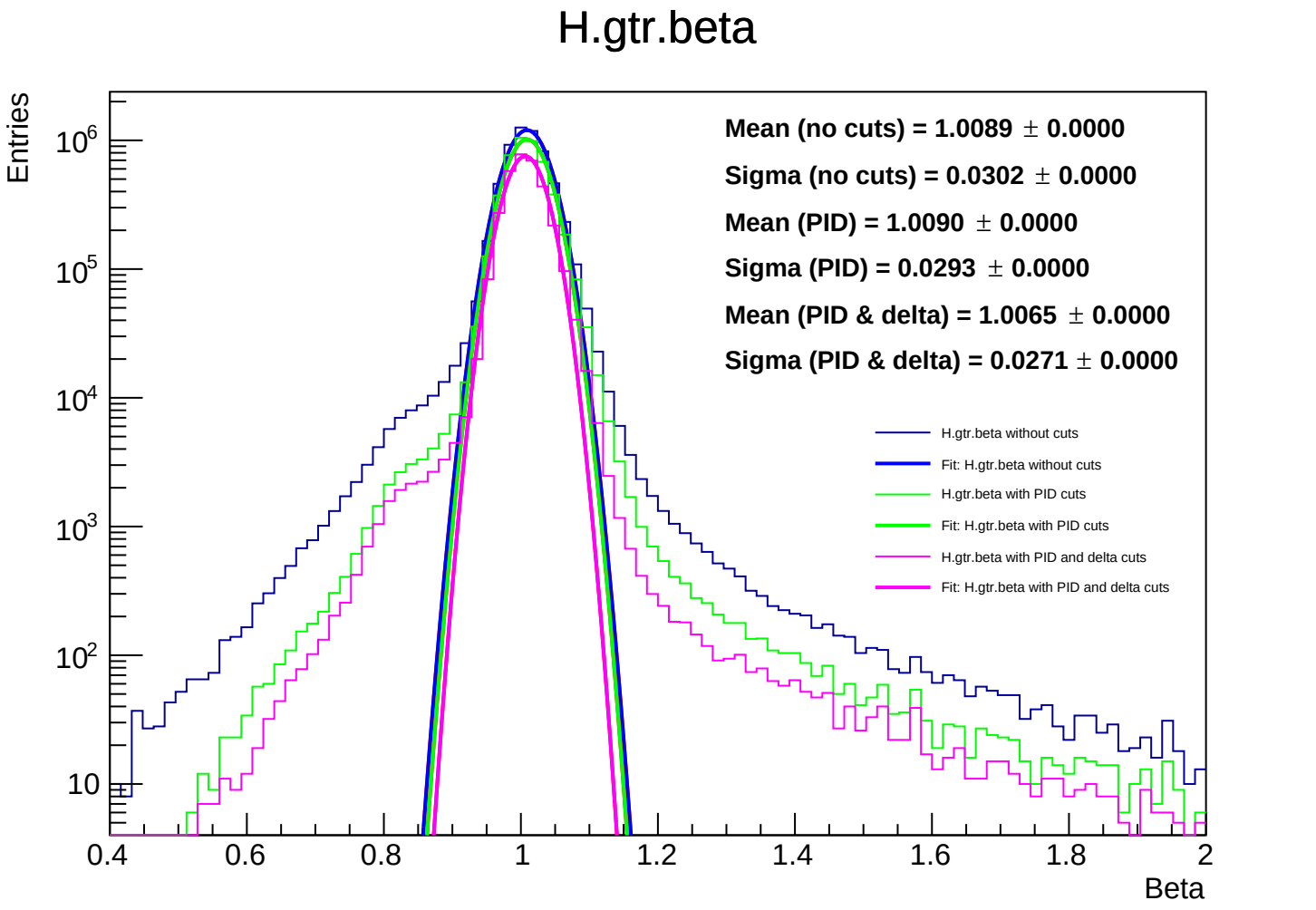
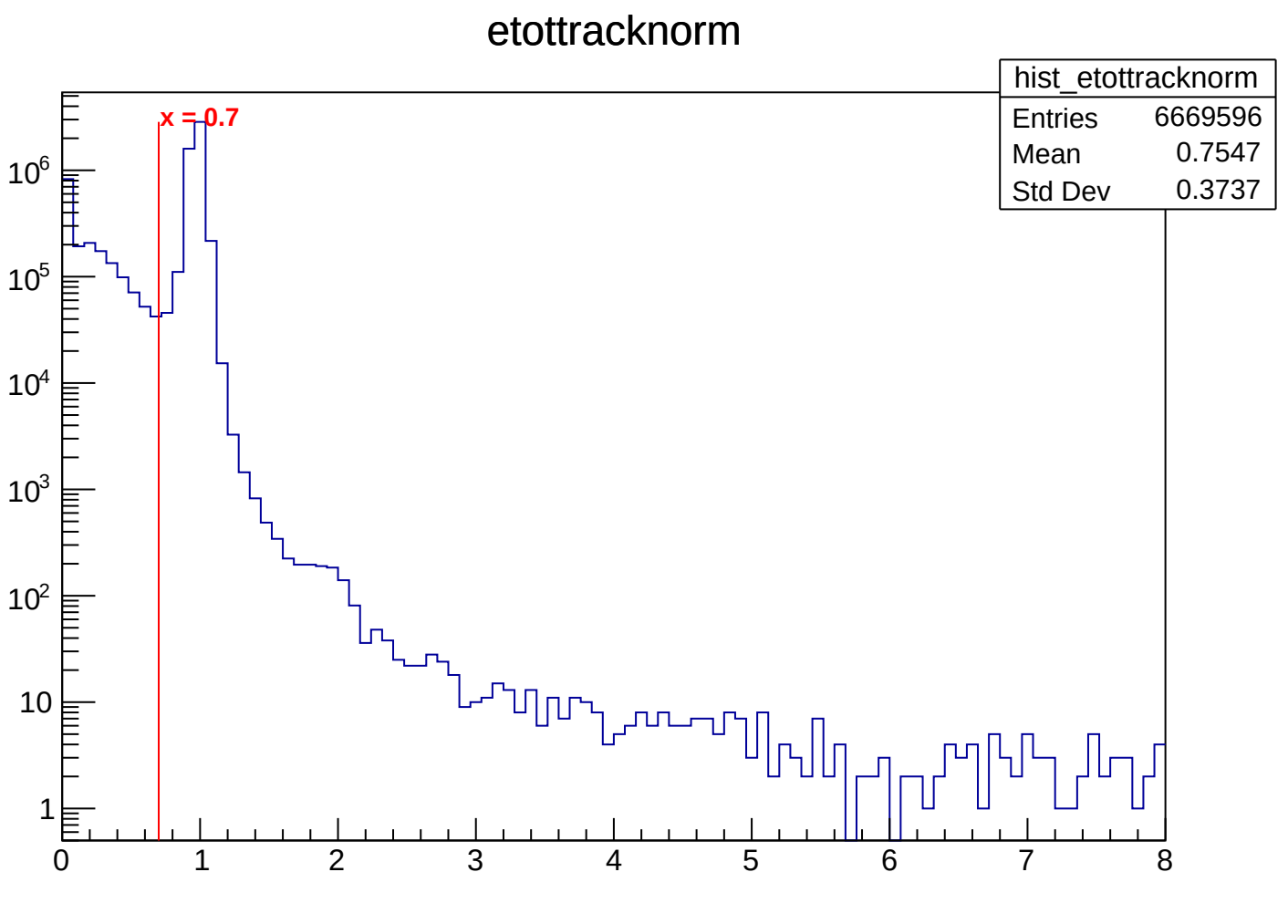
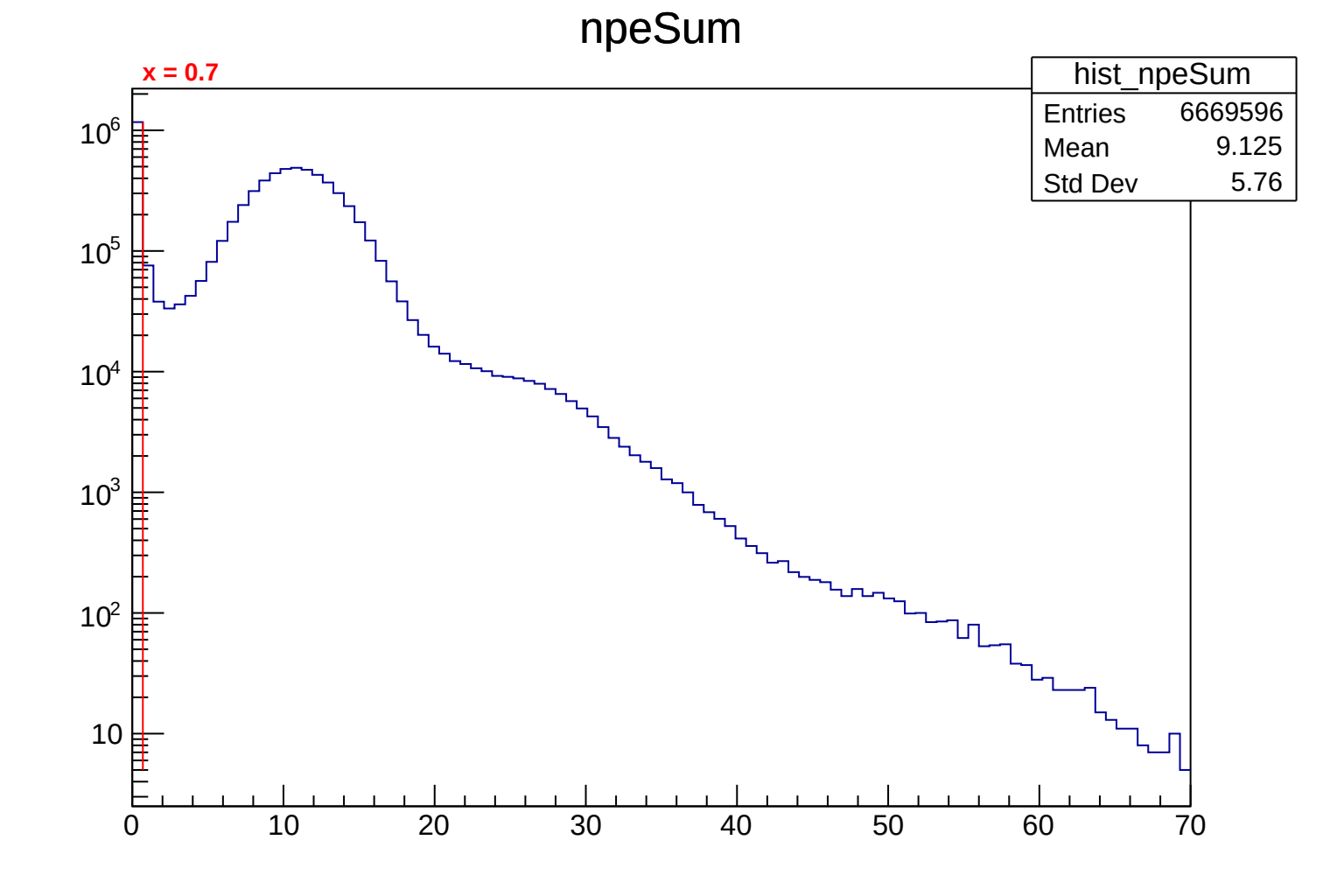
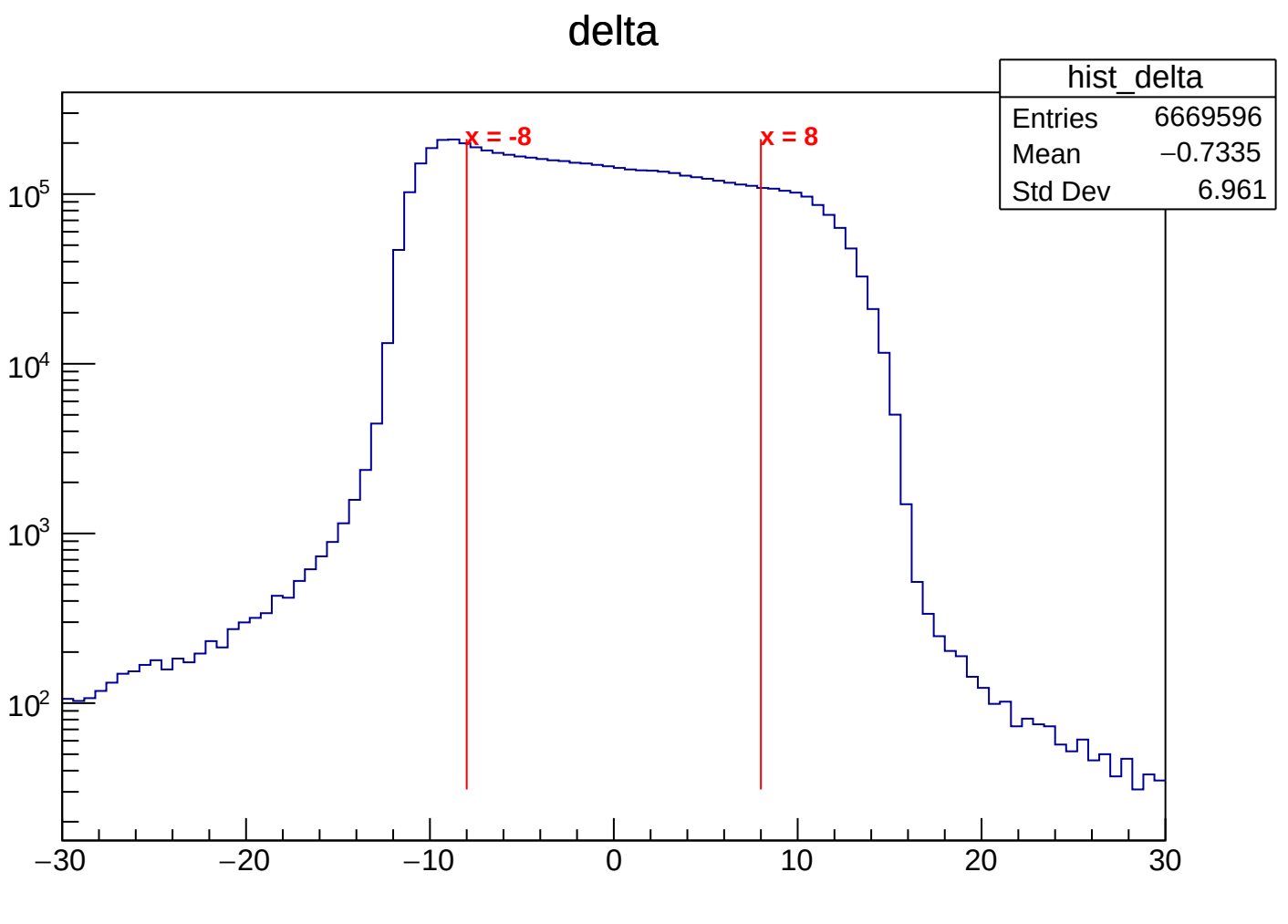
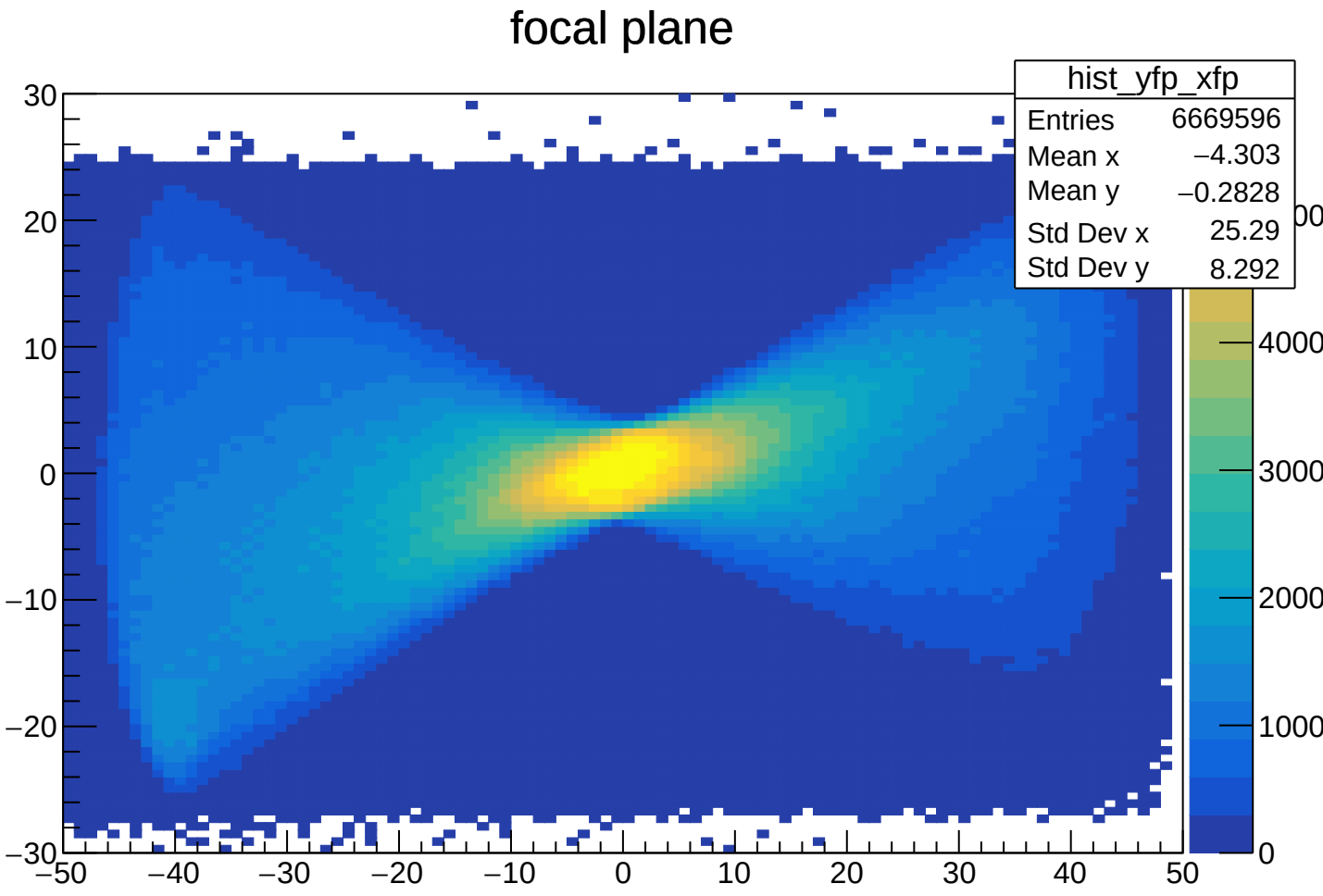
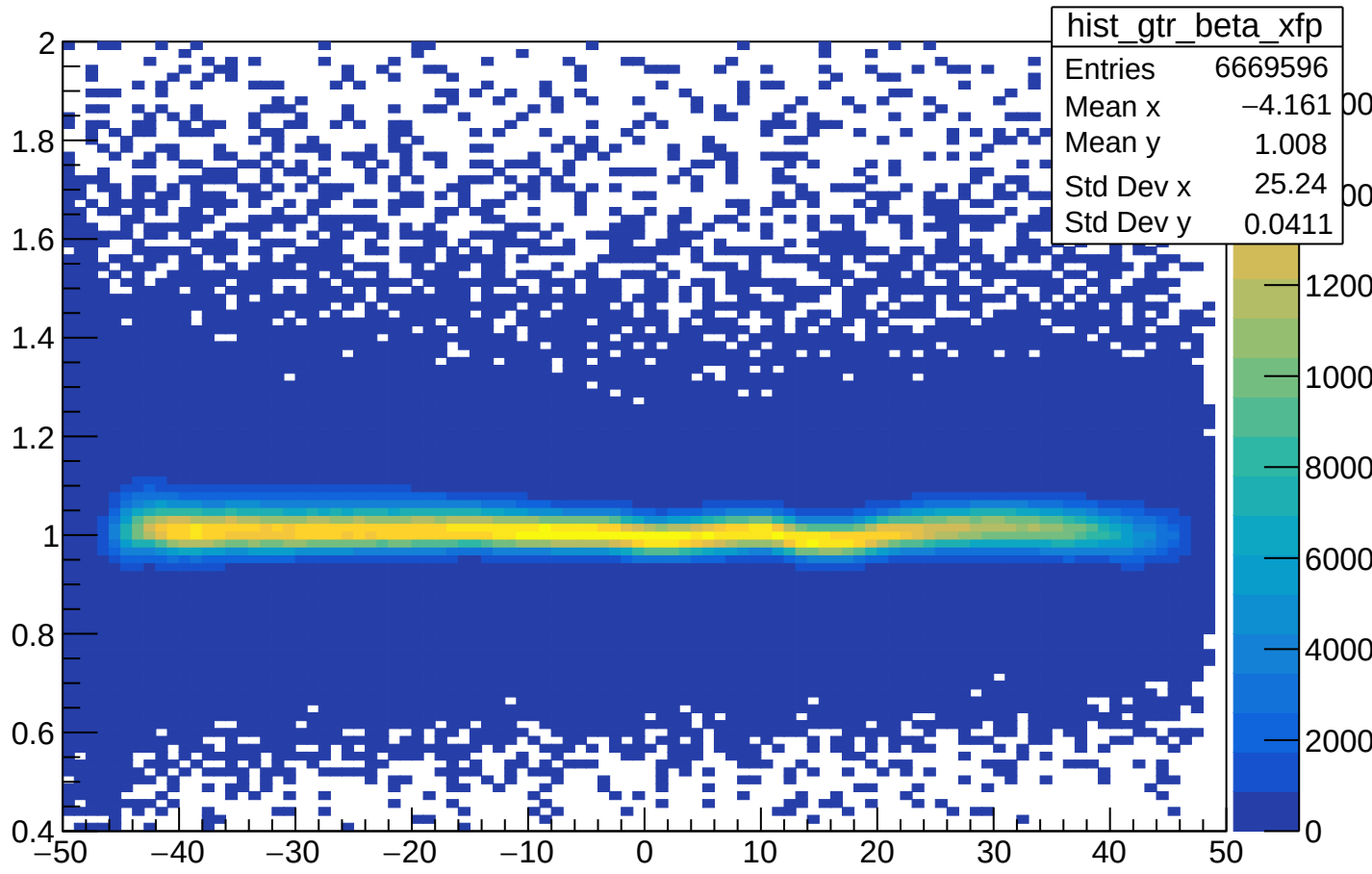

H.gtr.beta
Entries
Beta
Mean (no cuts) = 1.0089 ± 0.0000
Sigma (no cuts) = 0.0302 ± 0.0000
Mean (PID) = 1.0090 ± 0.0000
Sigma (PID) = 0.0293 ± 0.0000
Mean (PID & delta) = 1.0065 ± 0.0000
Sigma (PID & delta) = 0.0271 ± 0.0000
H.gtr.beta without cuts
Fit: H.gtr.beta without cuts
H.gtr.beta with PID cuts
Fit: H.gtr.beta with PID cuts
H.gtr.beta with PID and delta cuts
Fit: H.gtr.beta with PID and delta cuts

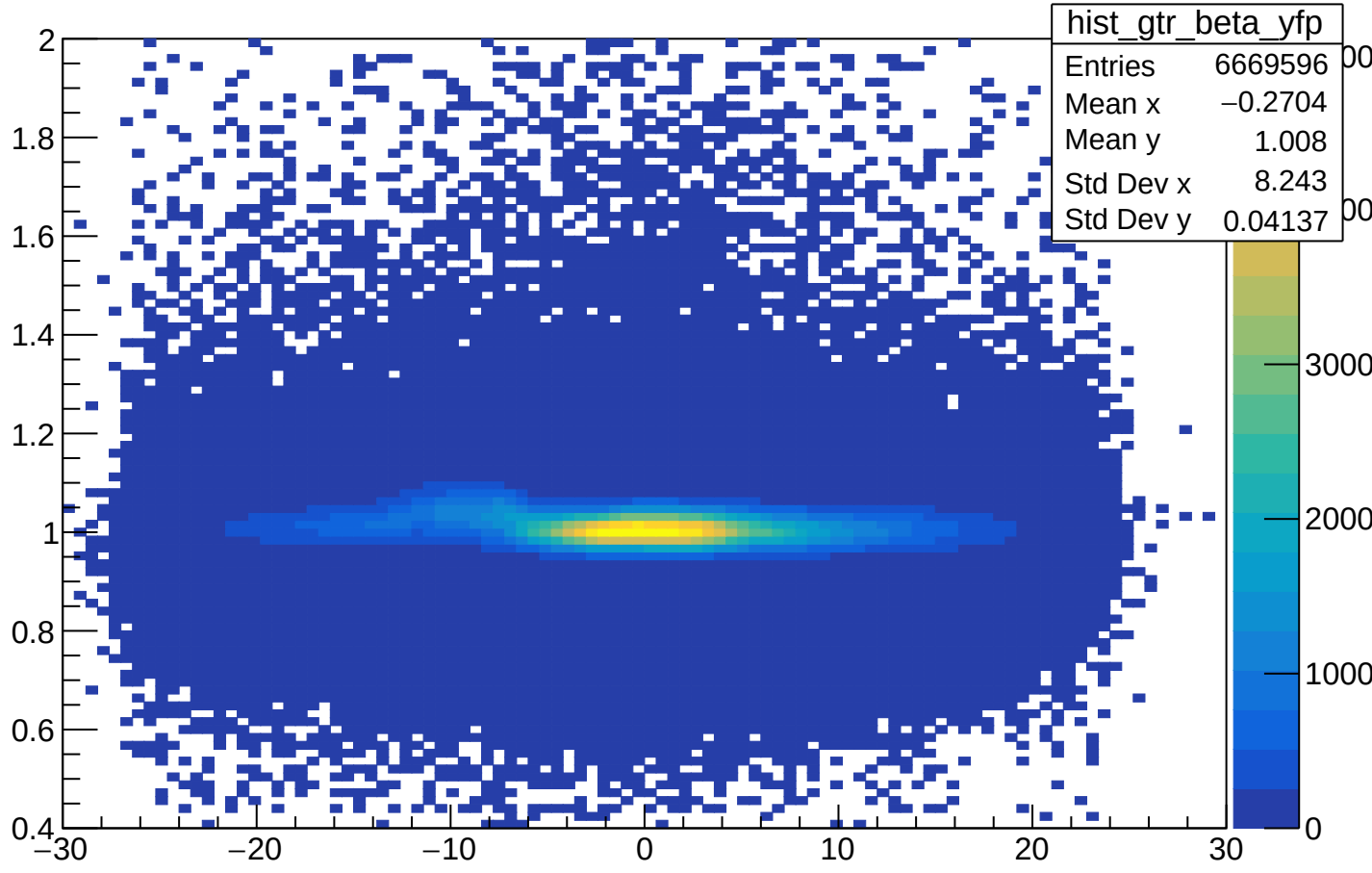

etottracknorm
hist_etottracknorm
Entries 6669596
Mean 0.7547
Std Dev 0.3737
x = 0.7
10^6
10^5
10^4
10^3
10^2
10
1
0
1
2
3
4
5
6
7
8

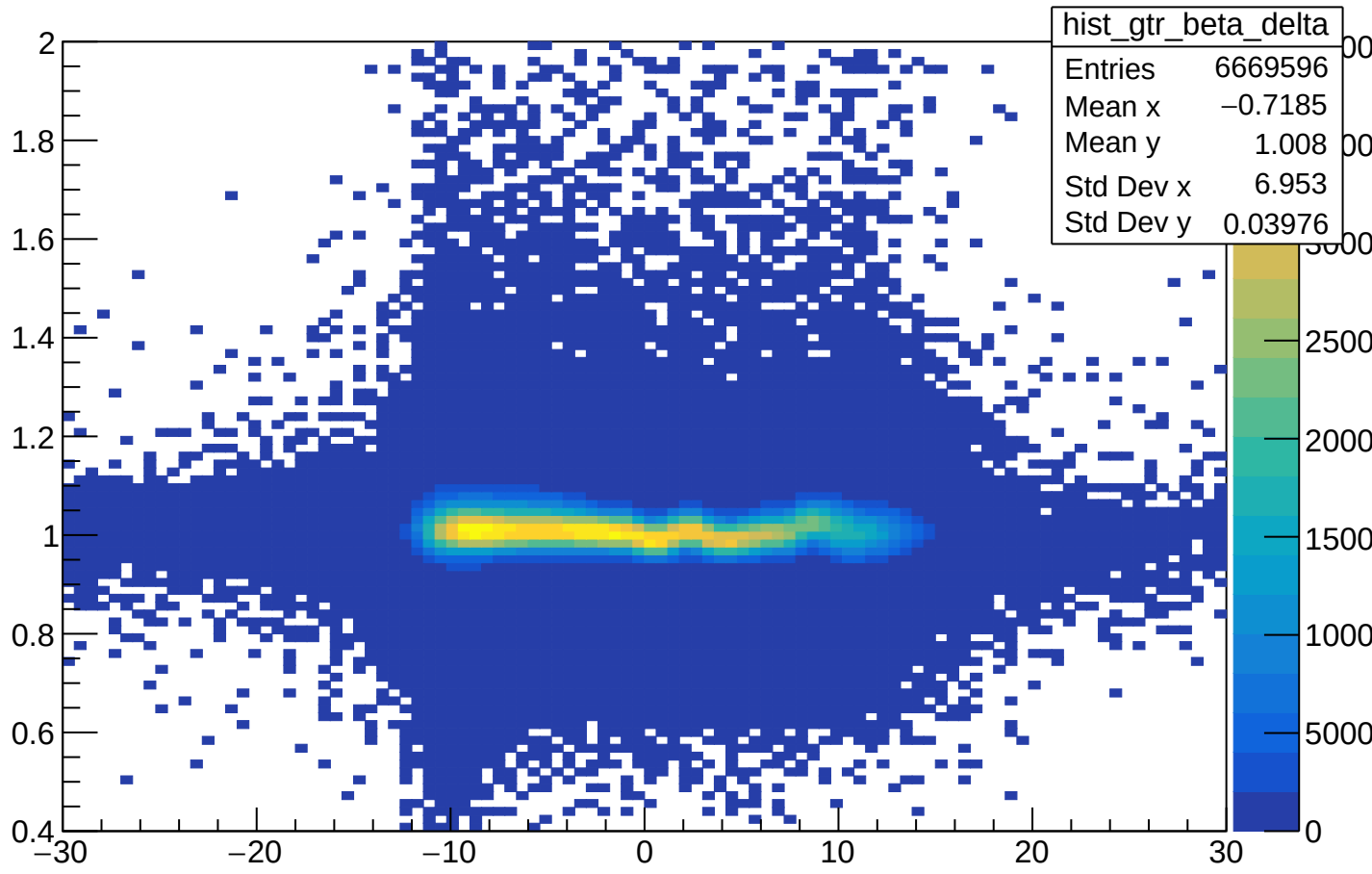

npeSum
x = 0.7
hist_npeSum
Entries 6669596
Mean 9.125
Std Dev 5.76
10^6
10^5
10^4
10^3
10^2
10
0
10
20
30
40
50
60
70

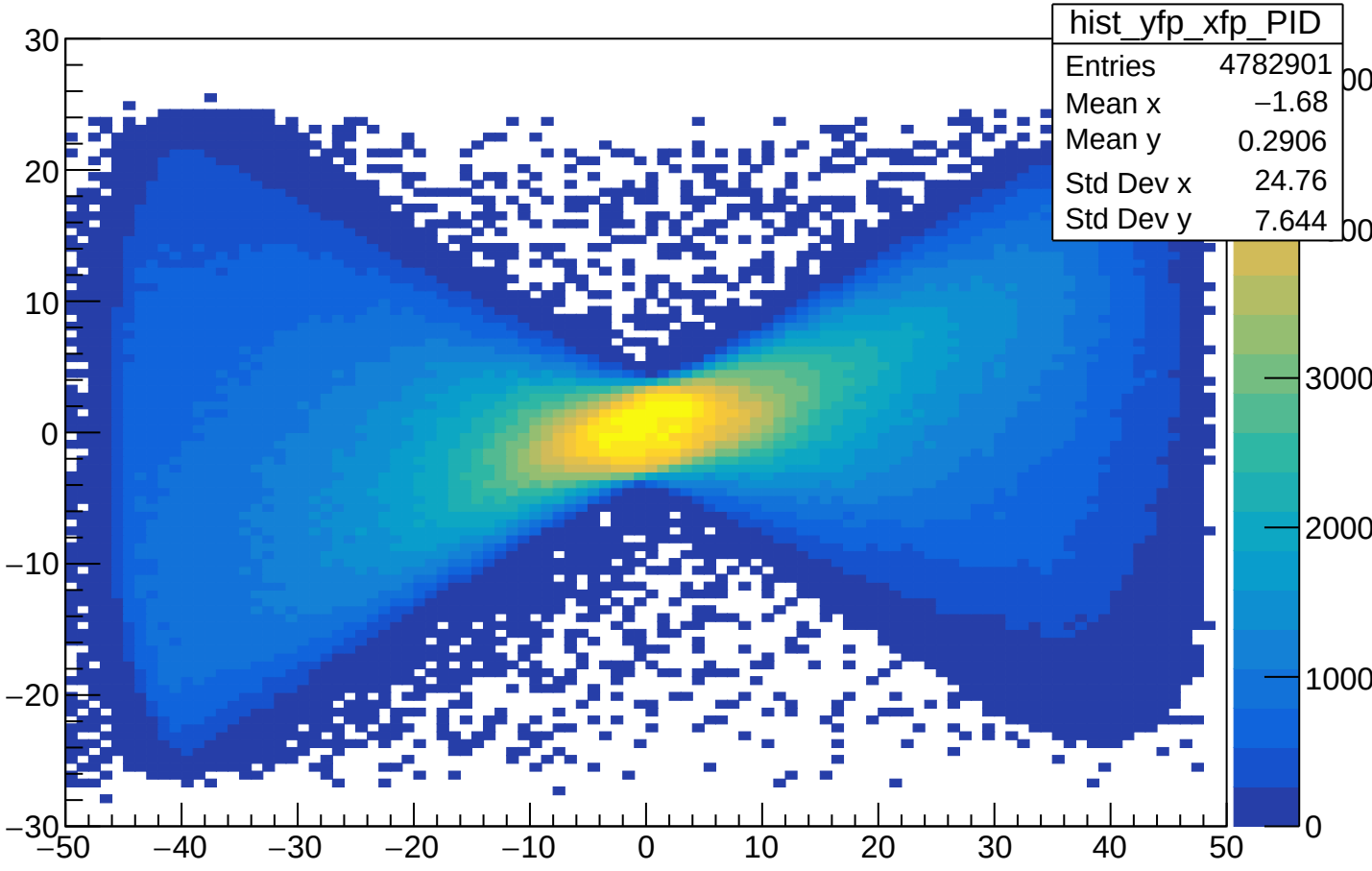

delta
hist_delta
Entries 6669596
Mean −0.7335
Std Dev 6.961
x = -8
x = 8
10^5
10^4
10^3
10^2
−30
−20
−10
0
10
20
30

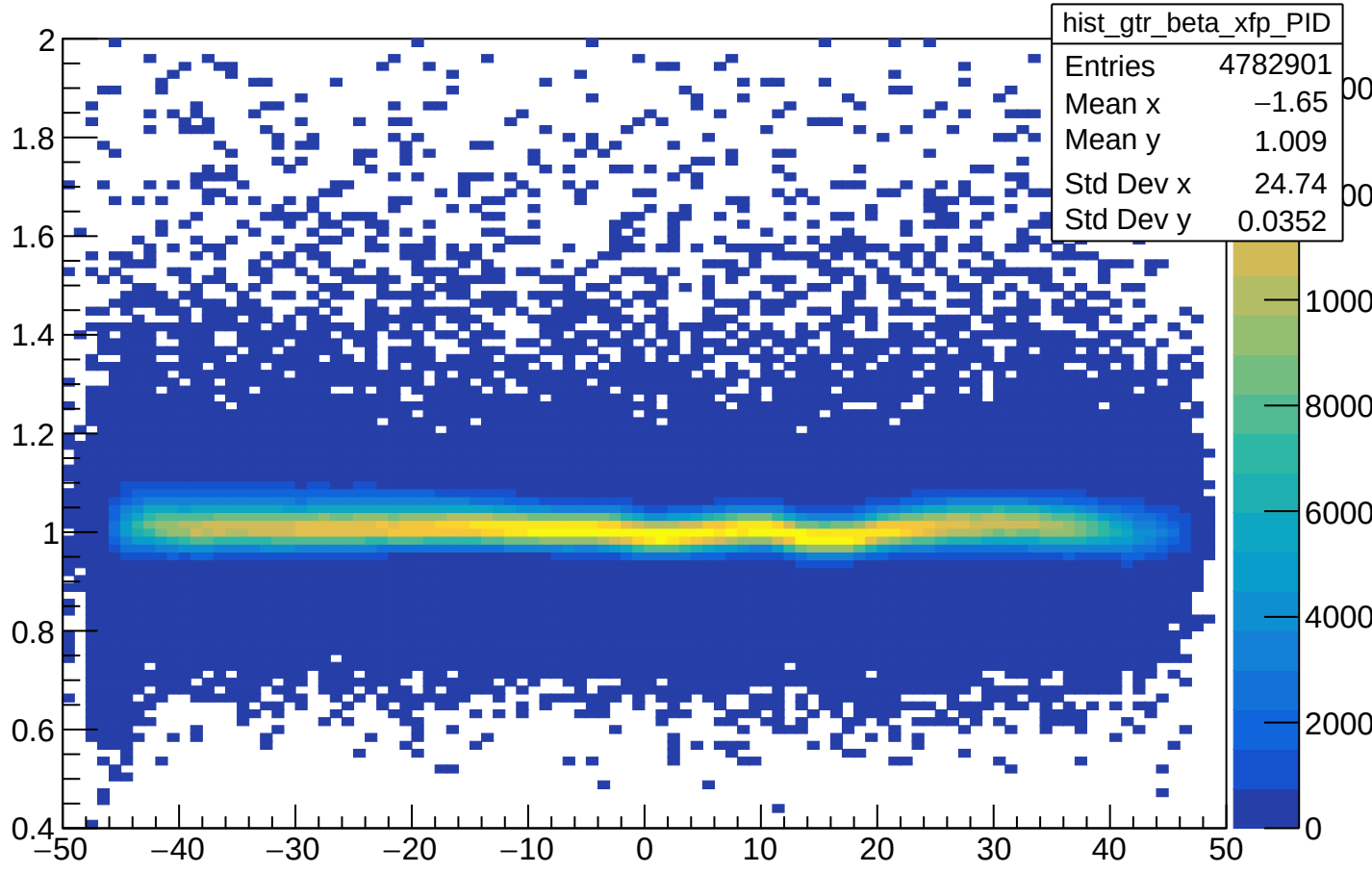

focal plane
hist_yfp_xfp
Entries 6669596
Mean x −4.303
Mean y −0.2828
Std Dev x 25.29
Std Dev y 8.292
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
4000
3000
2000
1000
0

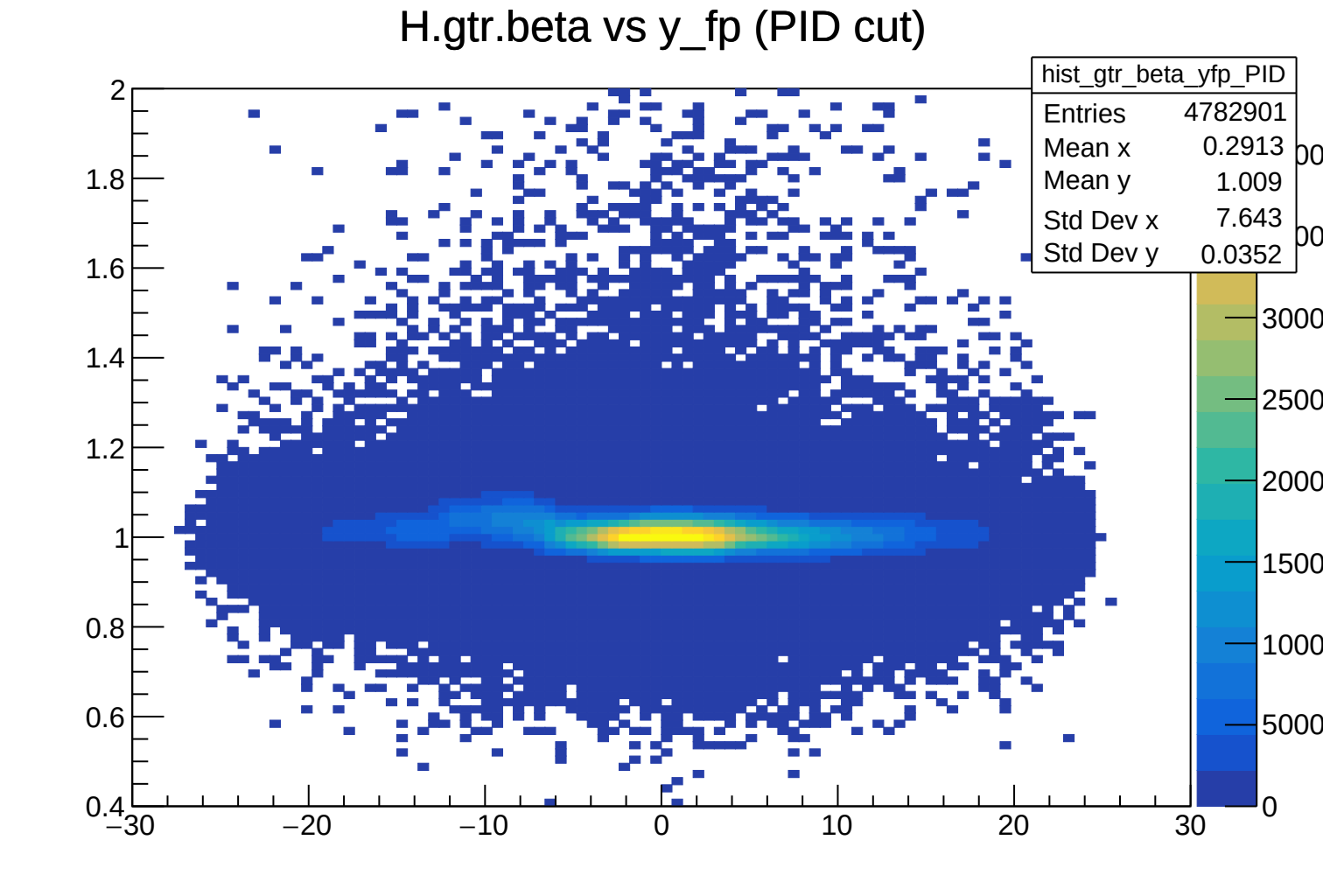

H.gtr.beta vs x_fp
hist_gtr_beta_xfp
Entries 6669596
Mean x −4.161
Mean y 1.008
Std Dev x 25.24
Std Dev y 0.0411
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−50
−40
−30
−20
−10
0
10
20
30
40
50
1200
1000
8000
6000
4000
2000
0

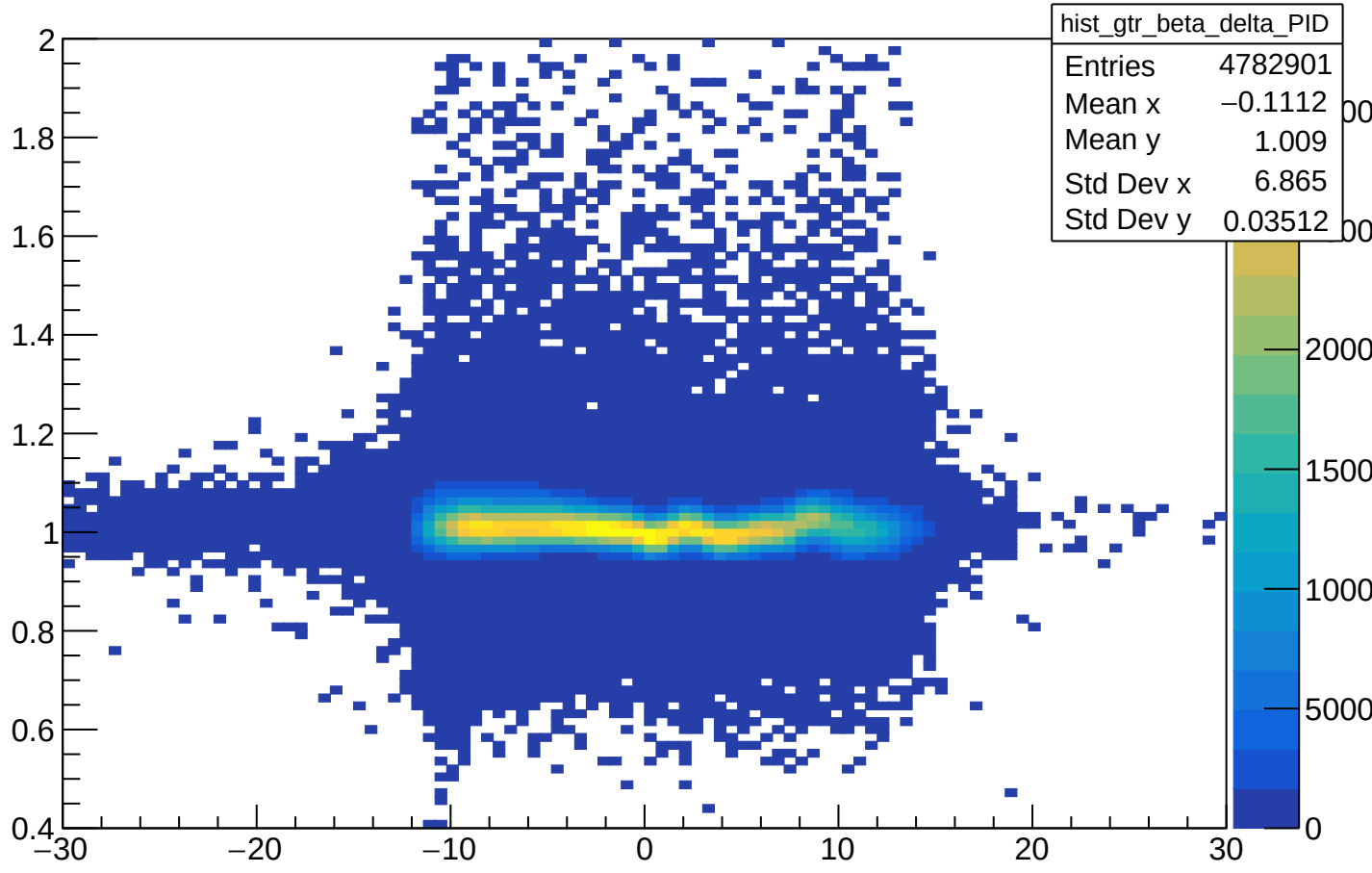

H.gtr.beta vs y_fp
hist_gtr_beta_yfp
Entries 6669596
Mean x −0.2704
Mean y 1.008
Std Dev x 8.243
Std Dev y 0.04137
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
3000
2000
1000
0

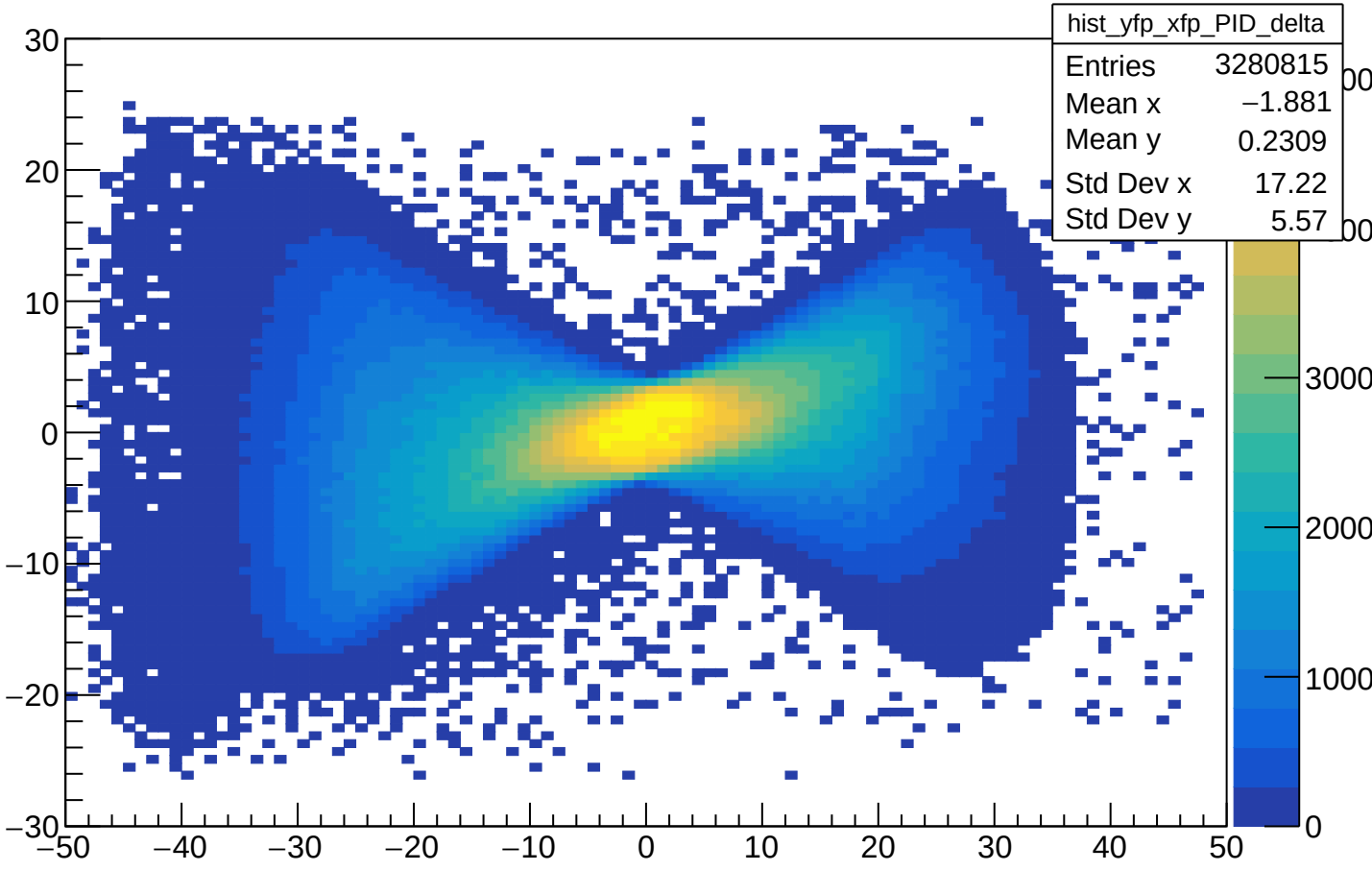

H.gtr.beta vs delta
hist_gtr_beta_delta
Entries 6669596
Mean x −0.7185
Mean y 1.008
Std Dev x 6.953
Std Dev y 0.03976
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
2500
2000
1500
1000
5000
0

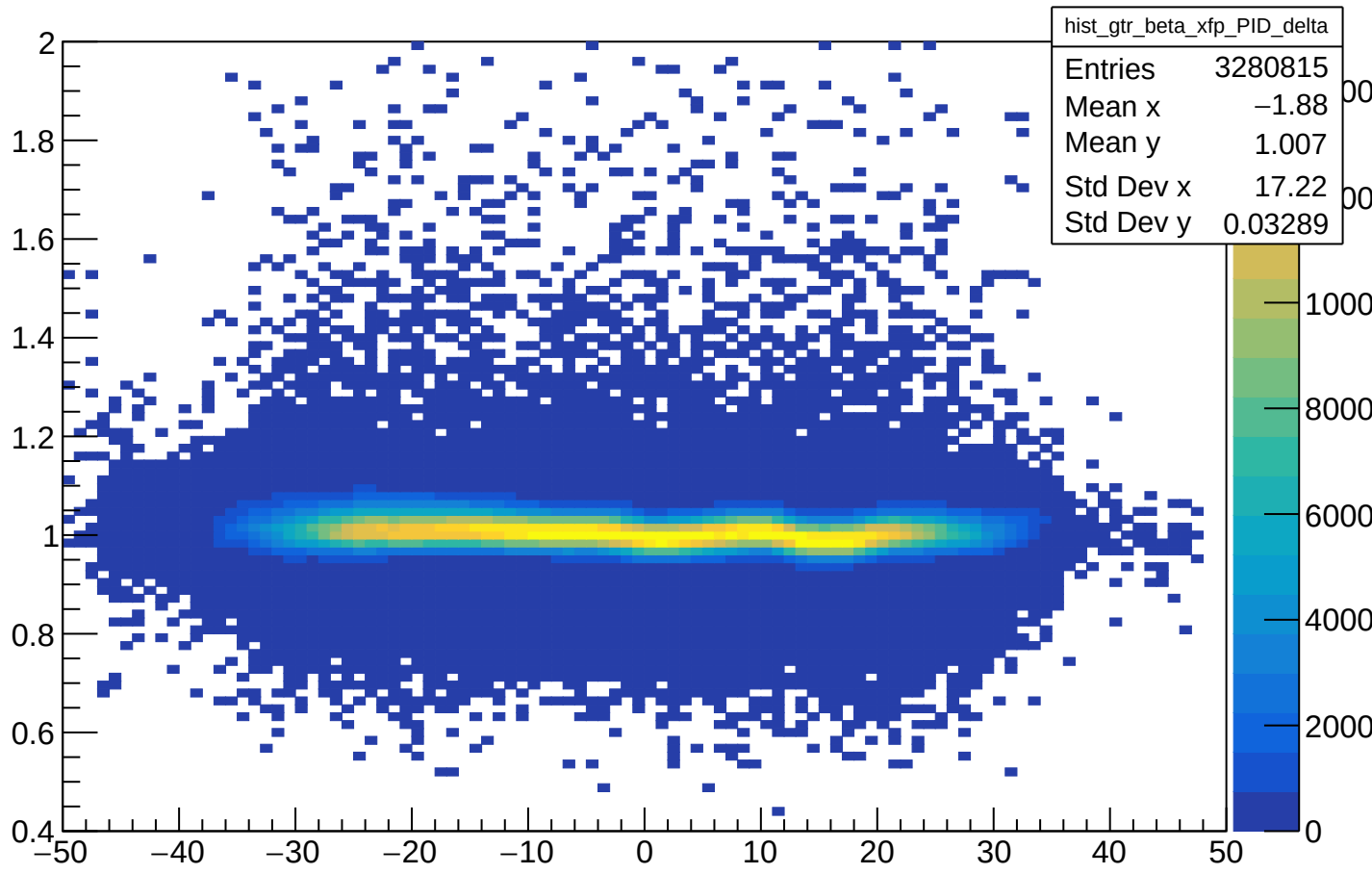

focal plane (PID cut)
hist_yfp_xfp_PID
Entries 4782901
Mean x −1.68
Mean y 0.2906
Std Dev x 24.76
Std Dev y 7.644
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
3000
2000
1000
0

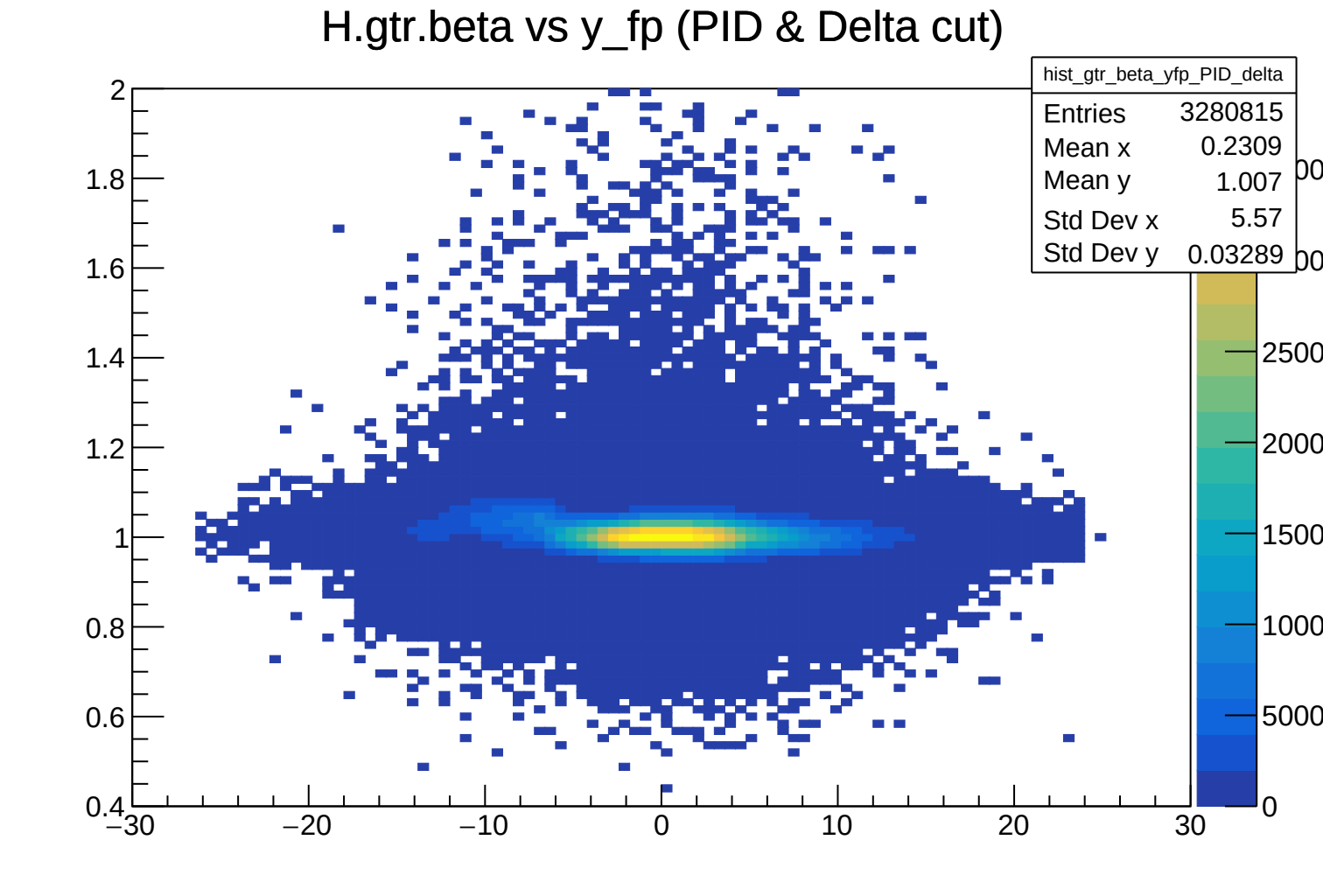

H.gtr.beta vs x_fp (PID cut)
hist_gtr_beta_xfp_PID
Entries 4782901
Mean x −1.65
Mean y 1.009
Std Dev x 24.74
Std Dev y 0.0352
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−50
−40
−30
−20
−10
0
10
20
30
40
50
1000
8000
6000
4000
2000
0

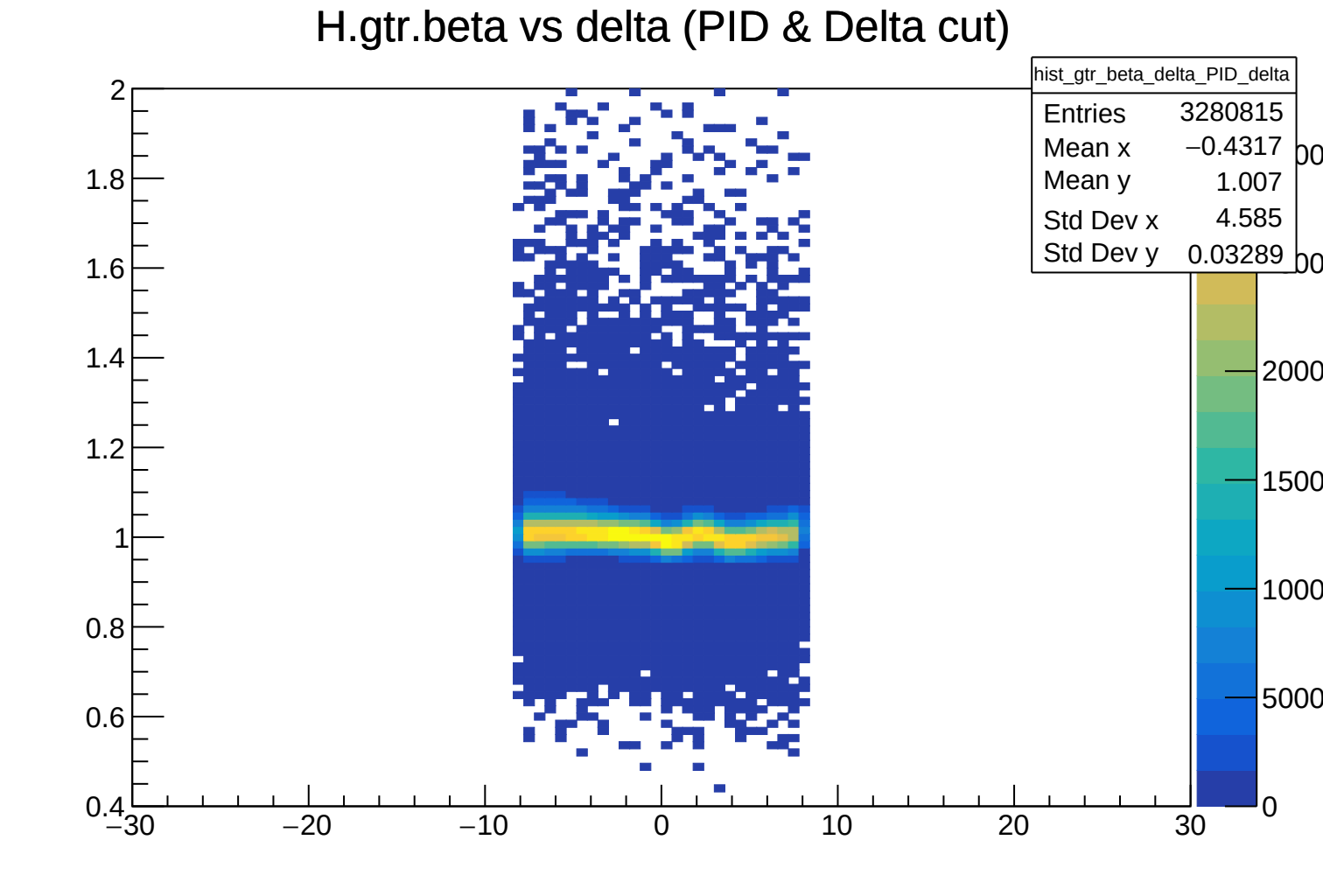

H.gtr.beta vs y_fp (PID cut)
hist_gtr_beta_yfp_PID
Entries 4782901
Mean x 0.2913
Mean y 1.009
Std Dev x 7.643
Std Dev y 0.0352
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
3000
2500
2000
1500
1000
5000
0


H.gtr.beta vs delta (PID cut)
hist_gtr_beta_delta_PID
Entries 4782901
Mean x −0.1112
Mean y 1.009
Std Dev x 6.865
Std Dev y 0.03512
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
2000
1500
1000
5000
0


focal plane (PID & Delta cut)
hist_yfp_xfp_PID_delta
Entries 3280815
Mean x −1.881
Mean y 0.2309
Std Dev x 17.22
Std Dev y 5.57
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
3000
2000
1000
0


H.gtr.beta vs x_fp (PID & Delta cut)
hist_gtr_beta_xfp_PID_delta
Entries 3280815
Mean x −1.88
Mean y 1.007
Std Dev x 17.22
Std Dev y 0.03289
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
1000
8000
6000
4000
2000
0


H.gtr.beta vs y_fp (PID & Delta cut)
hist_gtr_beta_yfp_PID_delta
Entries 3280815
Mean x 0.2309
Mean y 1.007
Std Dev x 5.57
Std Dev y 0.03289
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
2500
2000
1500
1000
5000
0


H.gtr.beta vs delta (PID & Delta cut)
hist_gtr_beta_delta_PID_delta
Entries 3280815
Mean x −0.4317
Mean y 1.007
Std Dev x 4.585
Std Dev y 0.03289
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
2000
1500
1000
5000
0