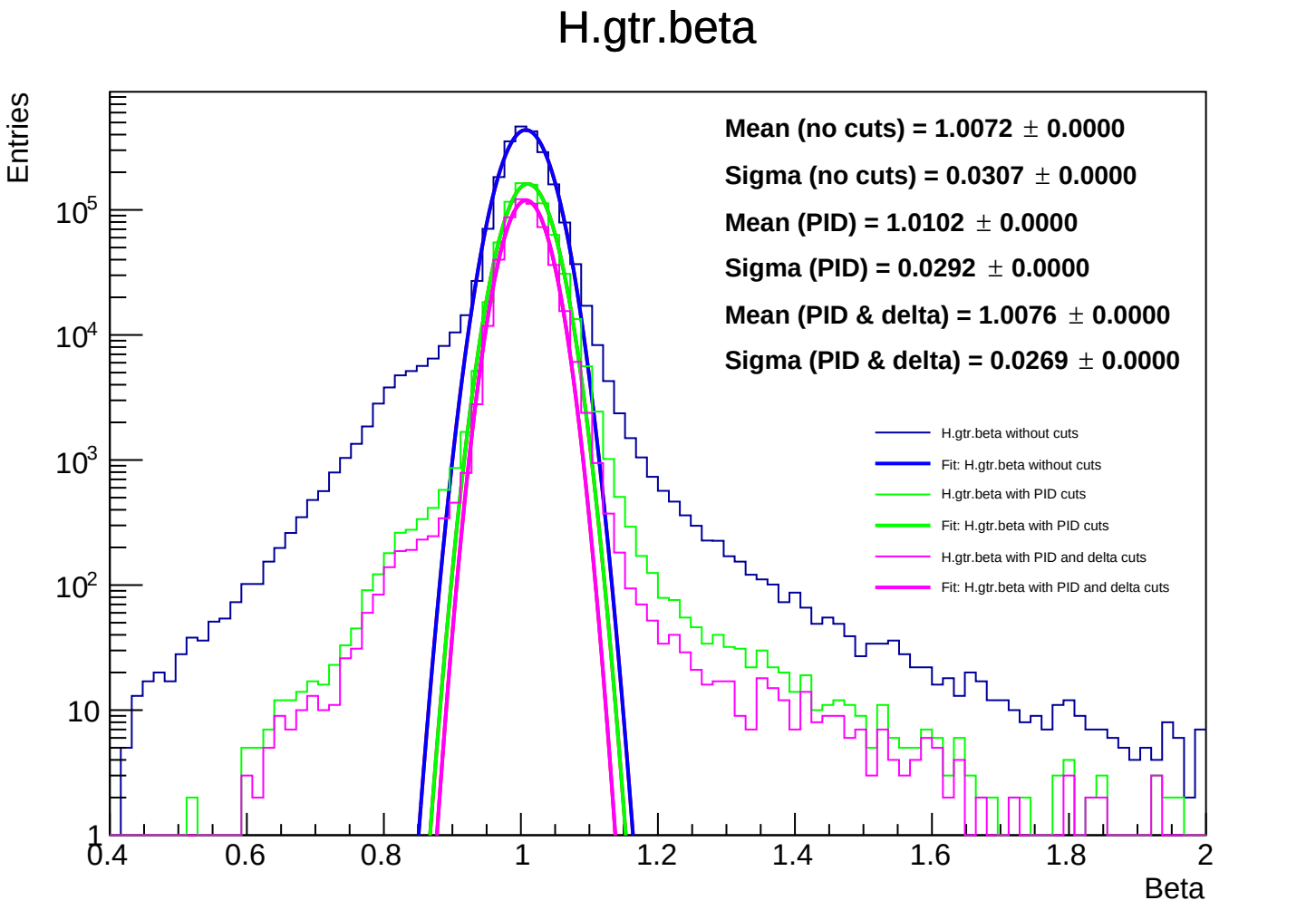
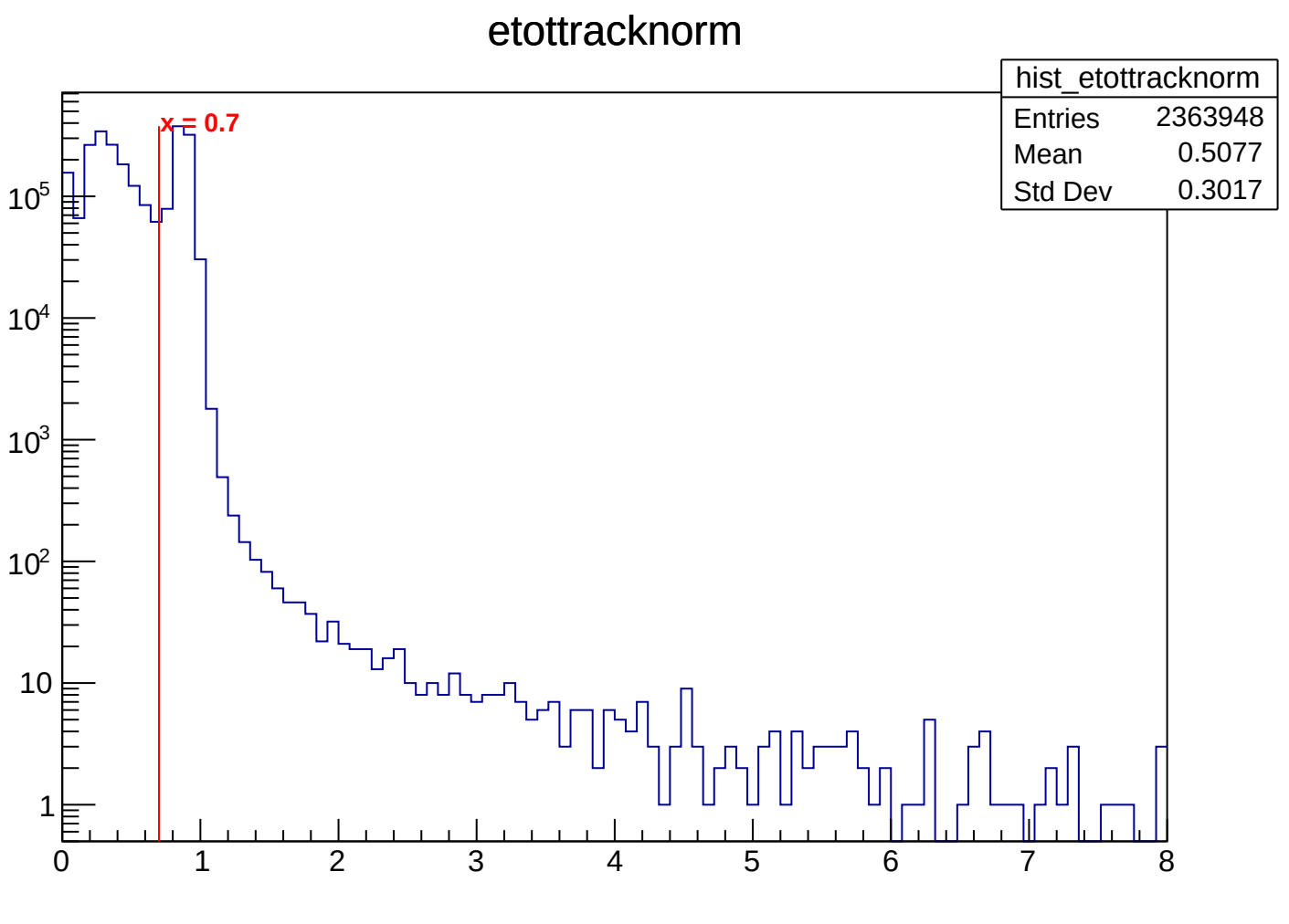
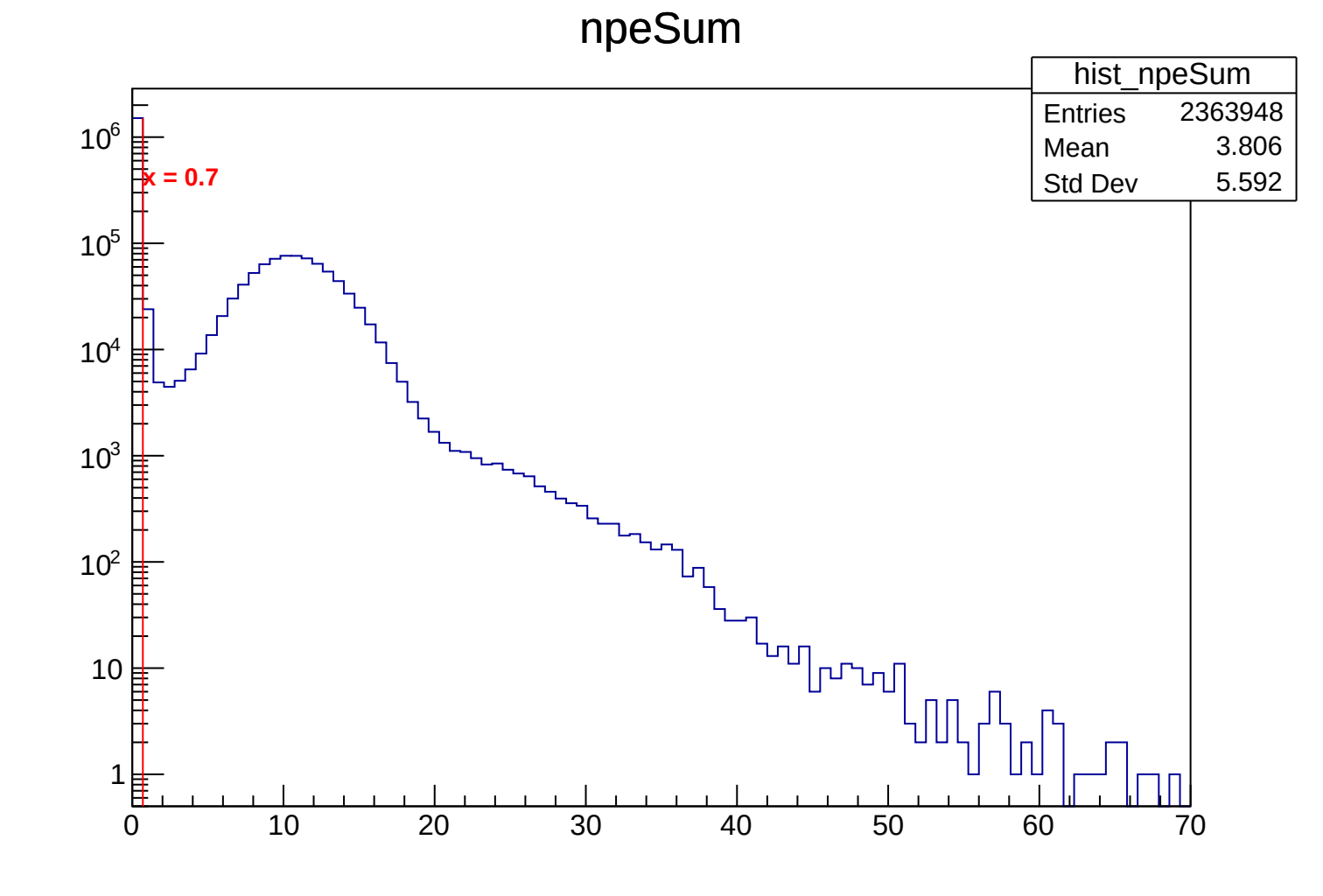
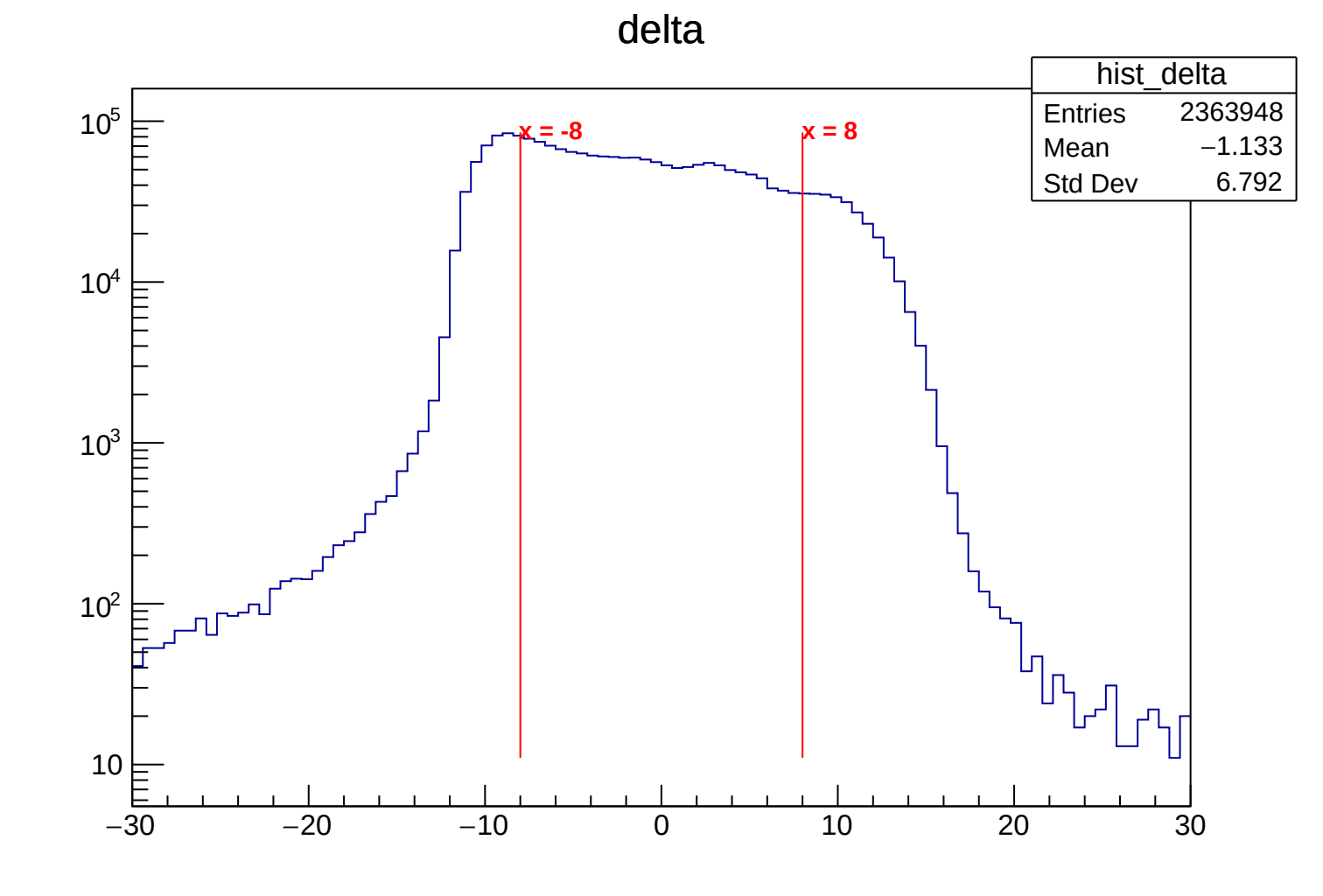
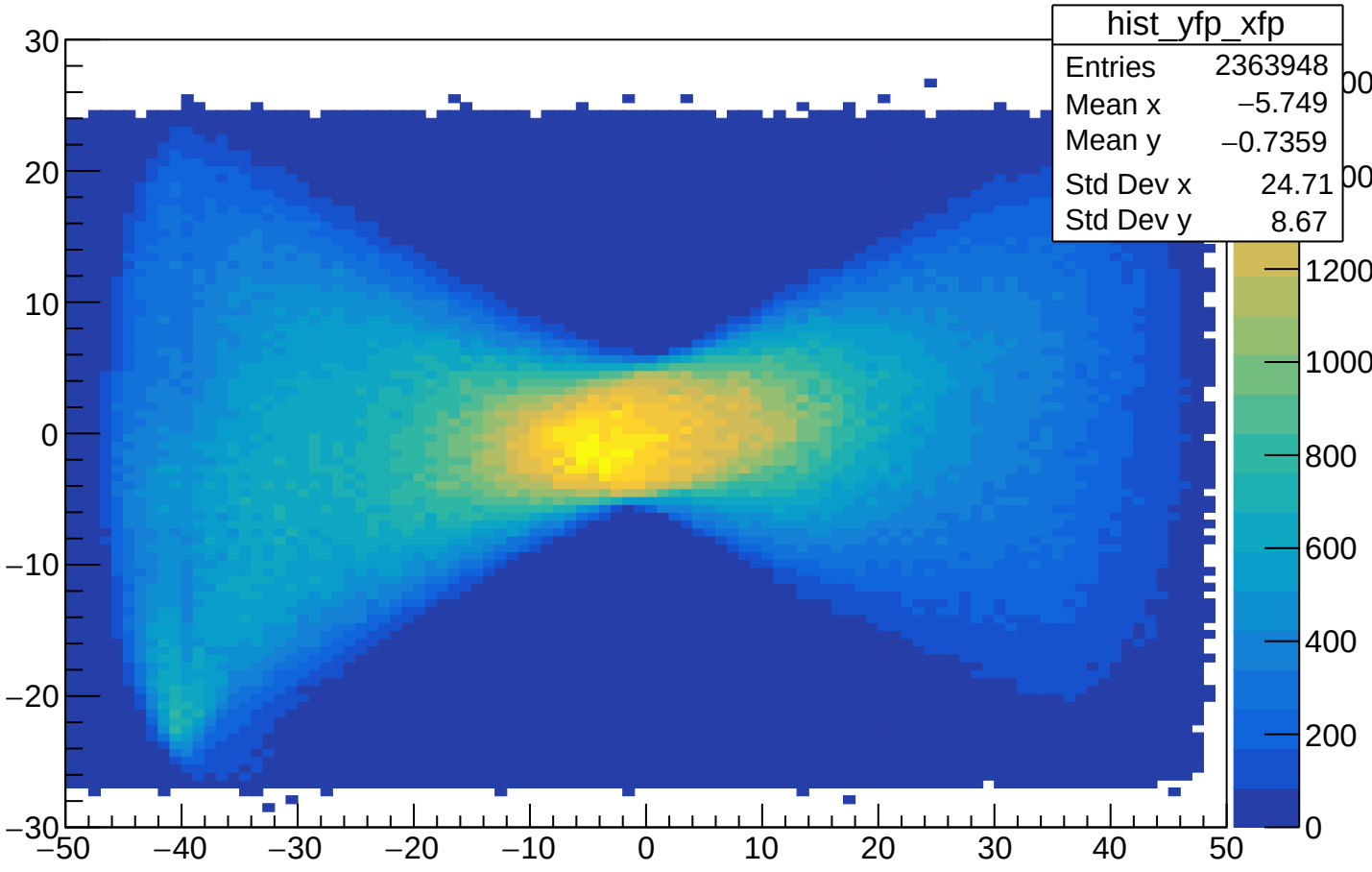
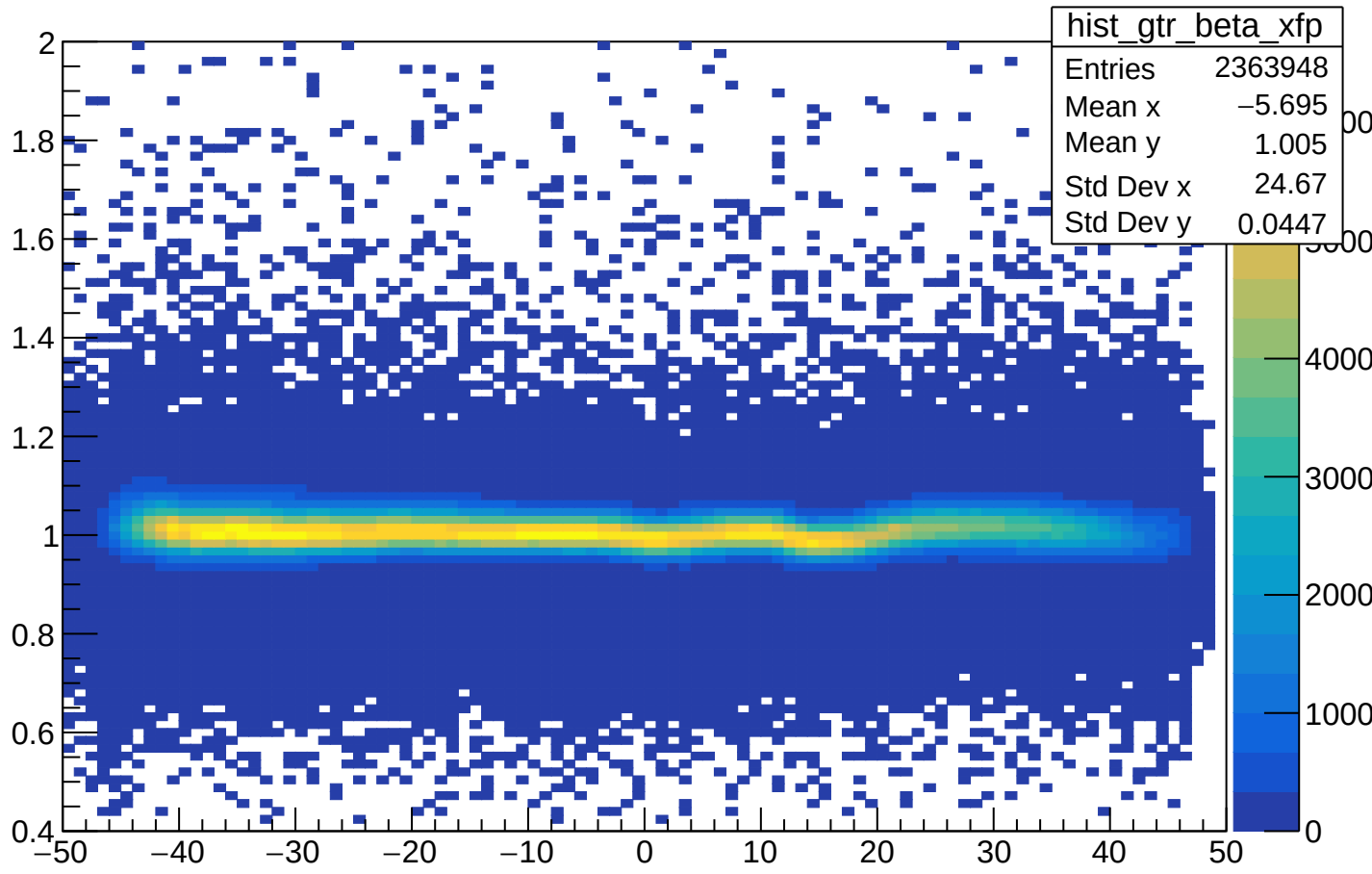

H.gtr.beta
Entries
Beta
Mean (no cuts) = 1.0072 ± 0.0000
Sigma (no cuts) = 0.0307 ± 0.0000
Mean (PID) = 1.0102 ± 0.0000
Sigma (PID) = 0.0292 ± 0.0000
Mean (PID & delta) = 1.0076 ± 0.0000
Sigma (PID & delta) = 0.0269 ± 0.0000
H.gtr.beta without cuts
Fit: H.gtr.beta without cuts
H.gtr.beta with PID cuts
Fit: H.gtr.beta with PID cuts
H.gtr.beta with PID and delta cuts
Fit: H.gtr.beta with PID and delta cuts
10^5
10^4
10^3
10^2
10
1
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2

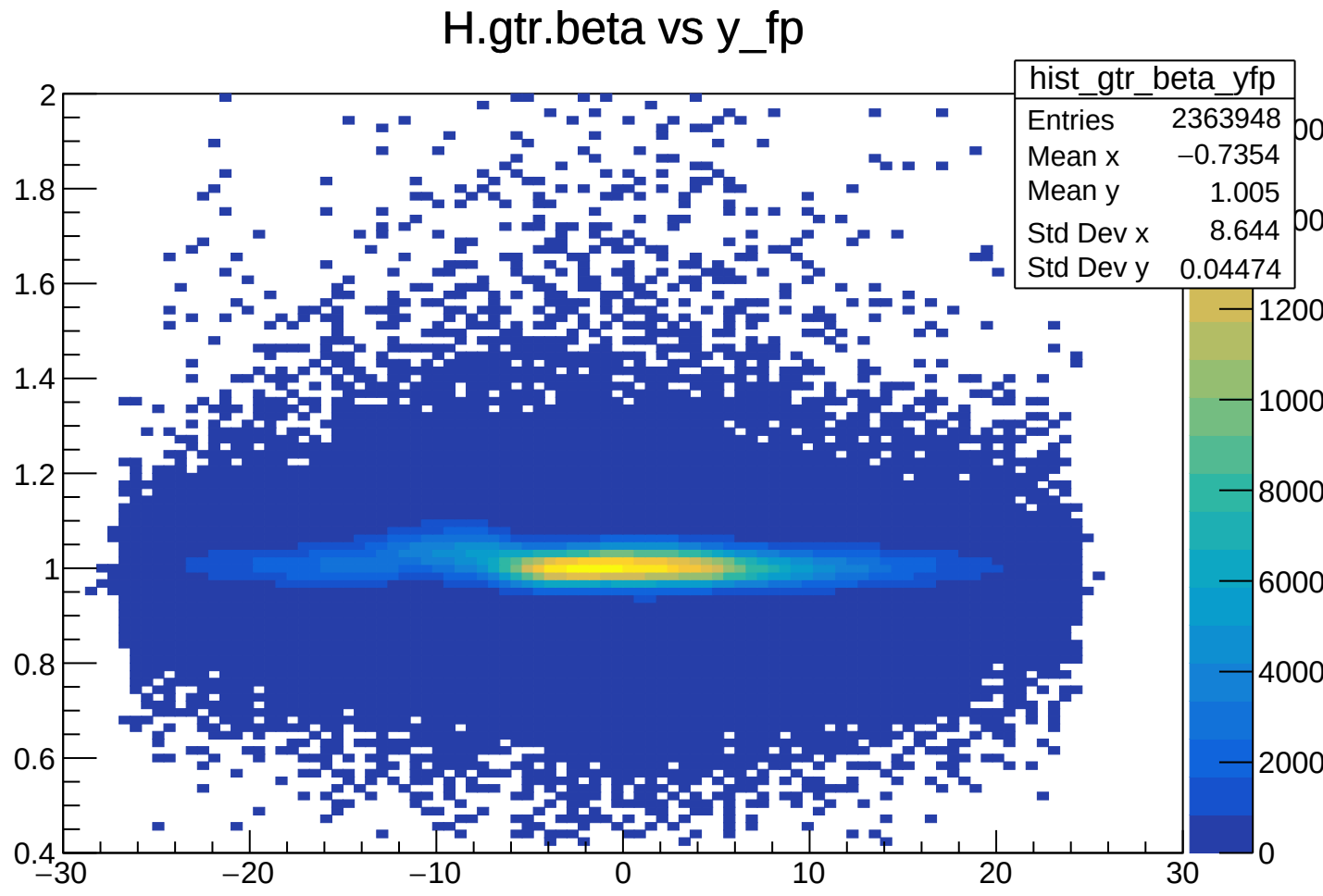

etottracknorm
hist_etottracknorm
Entries 2363948
Mean 0.5077
Std Dev 0.3017
x = 0.7
10^5
10^4
10^3
10^2
10
1
0
1
2
3
4
5
6
7
8

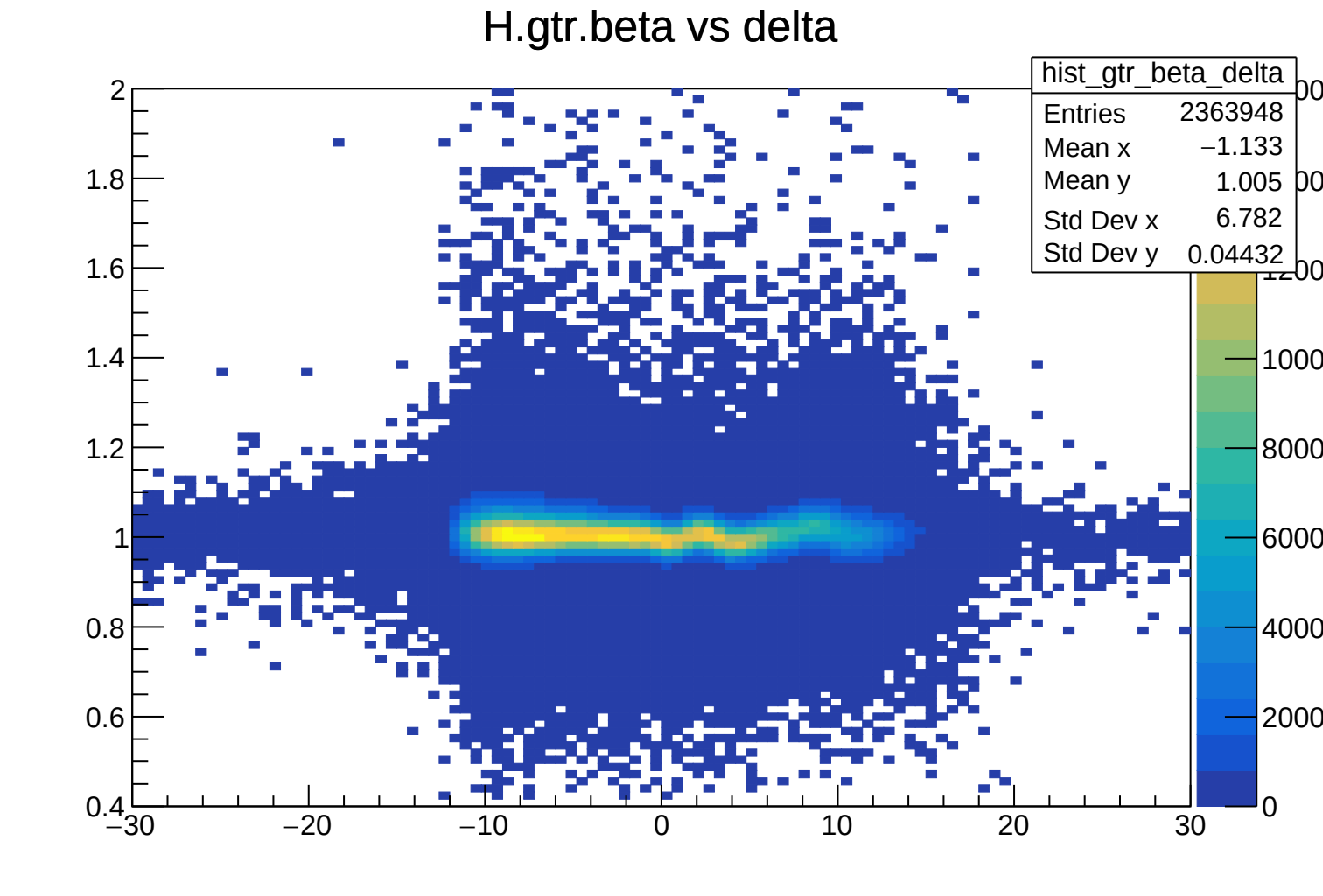

npeSum
hist_npeSum
Entries 2363948
Mean 3.806
Std Dev 5.592
x = 0.7
10^6
10^5
10^4
10^3
10^2
10
1
0
10
20
30
40
50
60
70

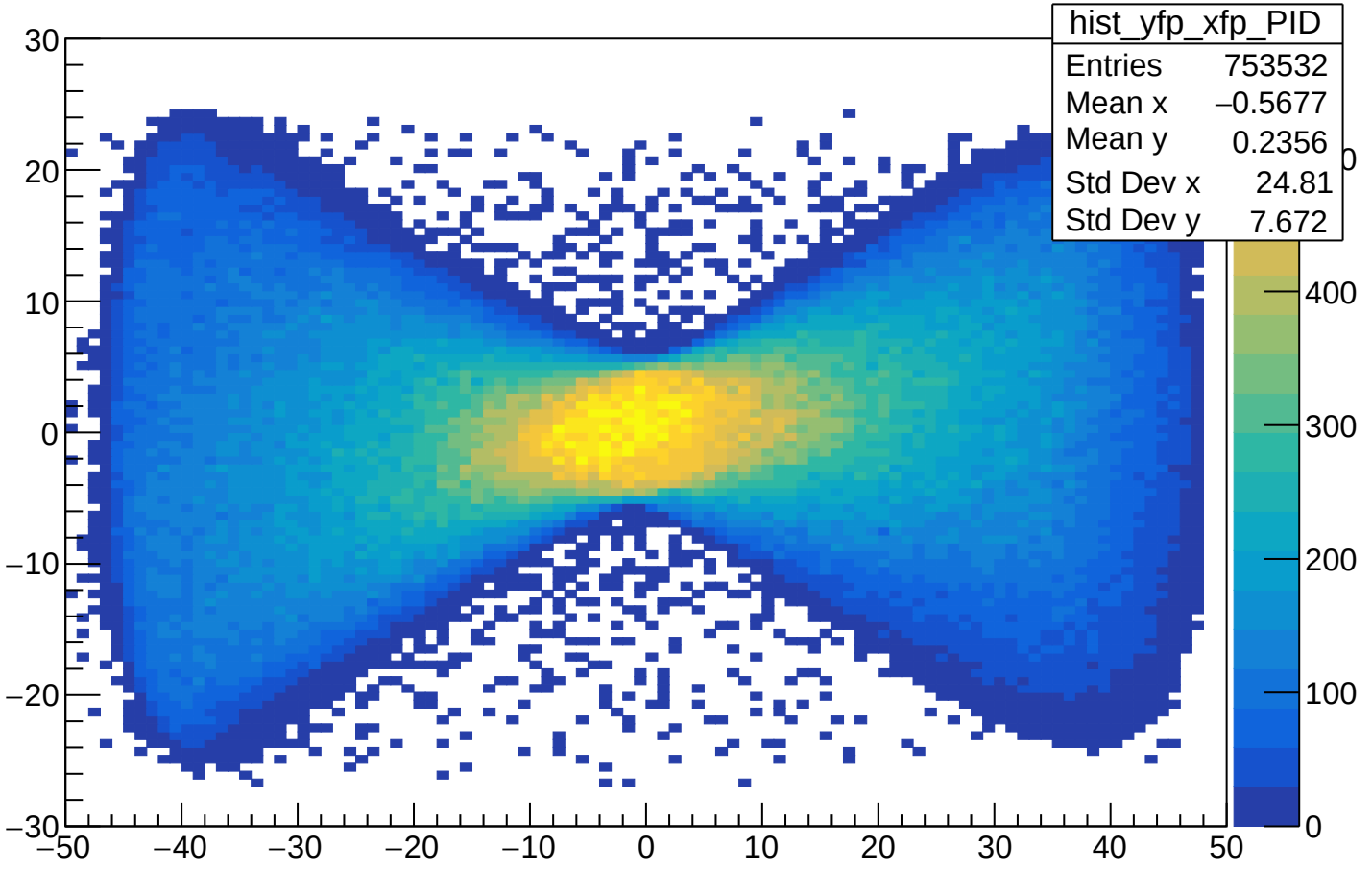

delta
hist_delta
Entries 2363948
Mean −1.133
Std Dev 6.792
x = -8
x = 8
10^5
10^4
10^3
10^2
10
−30
−20
−10
0
10
20
30

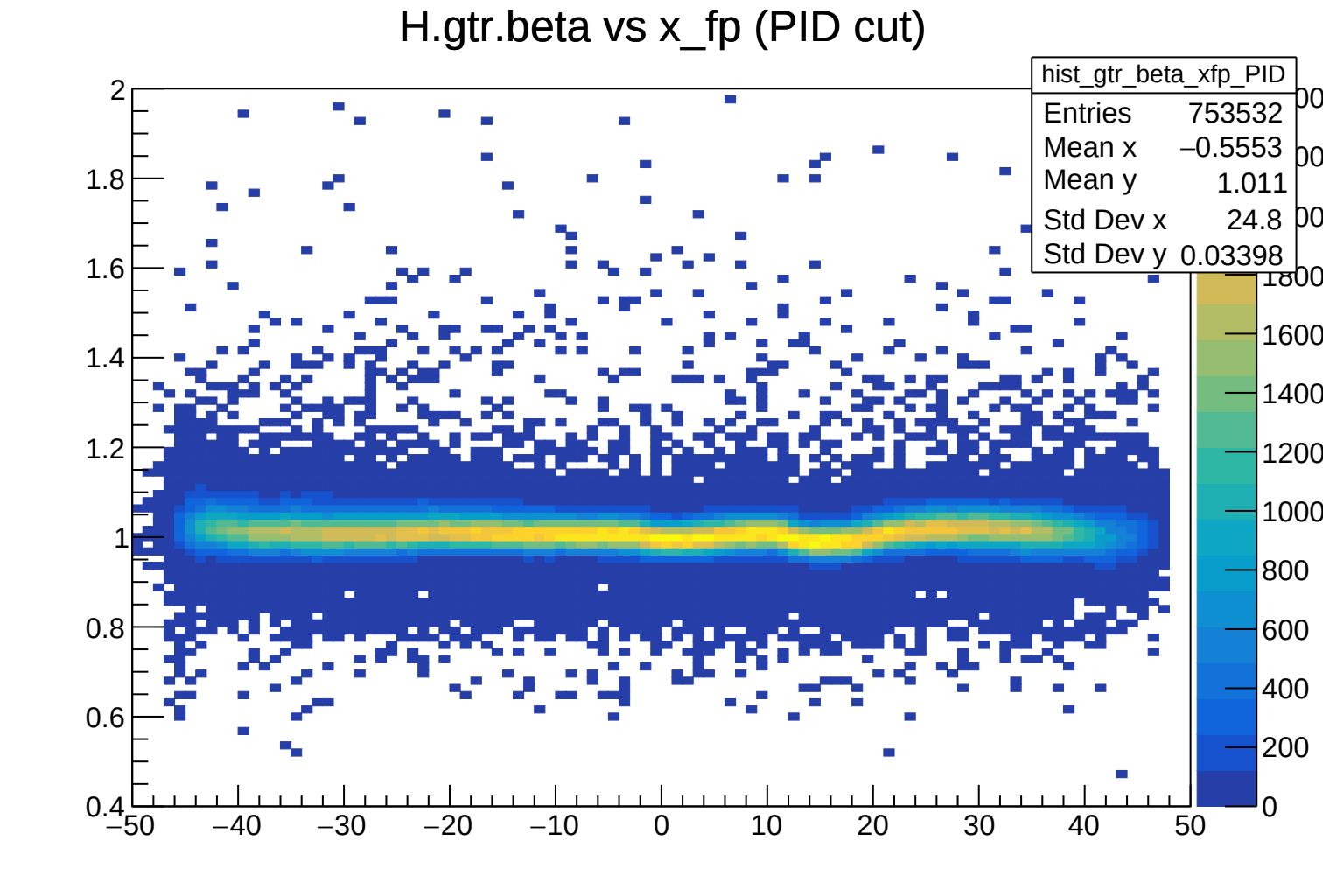

focal plane
hist_yfp_xfp
Entries 2363948
Mean x −5.749
Mean y −0.7359
Std Dev x 24.71
Std Dev y 8.67
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
1200
1000
800
600
400
200
0

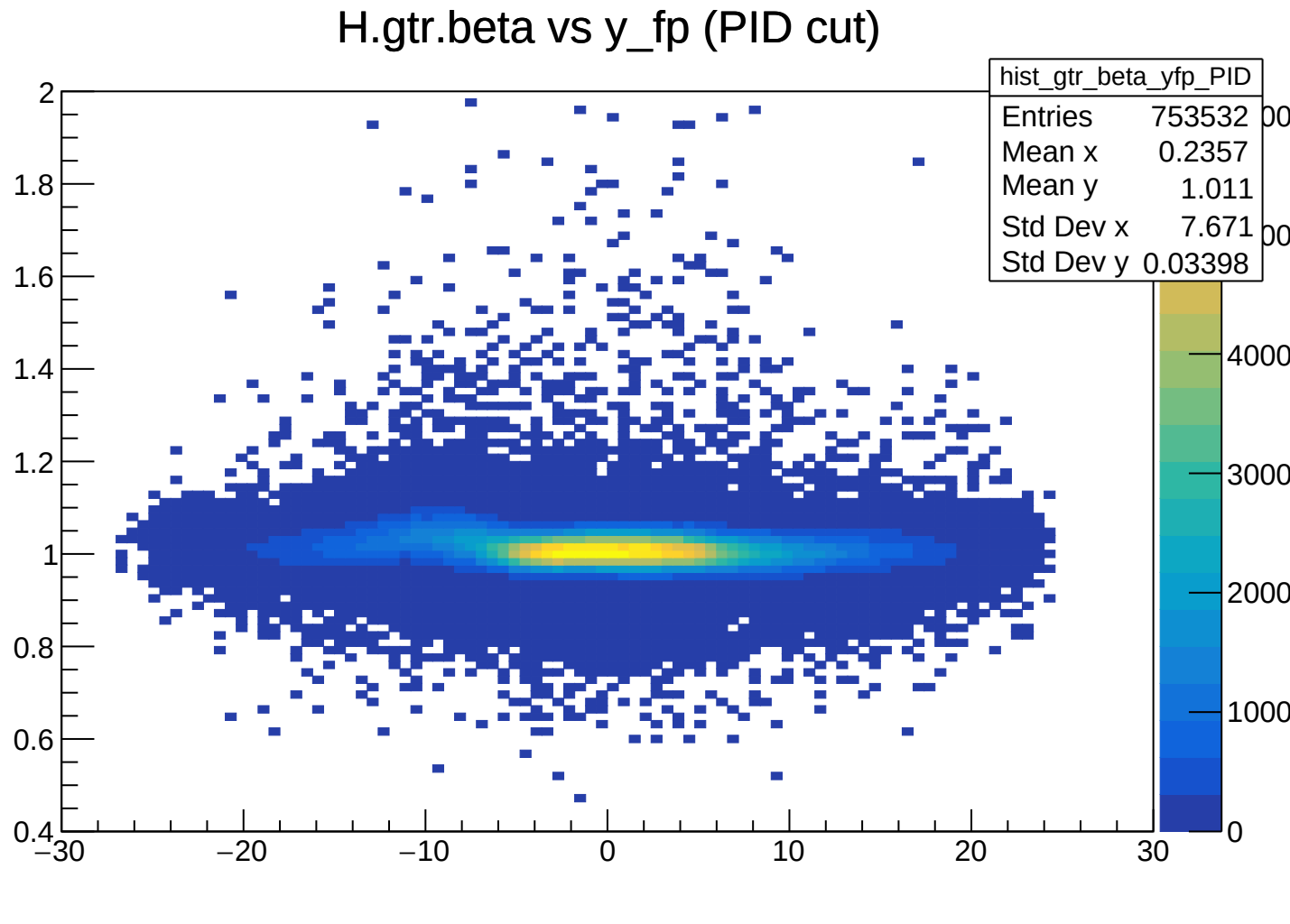

H.gtr.beta vs x_fp
hist_gtr_beta_xfp
Entries 2363948
Mean x −5.695
Mean y 1.005
Std Dev x 24.67
Std Dev y 0.0447
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−50
−40
−30
−20
−10
0
10
20
30
40
50
4000
3000
2000
1000
0

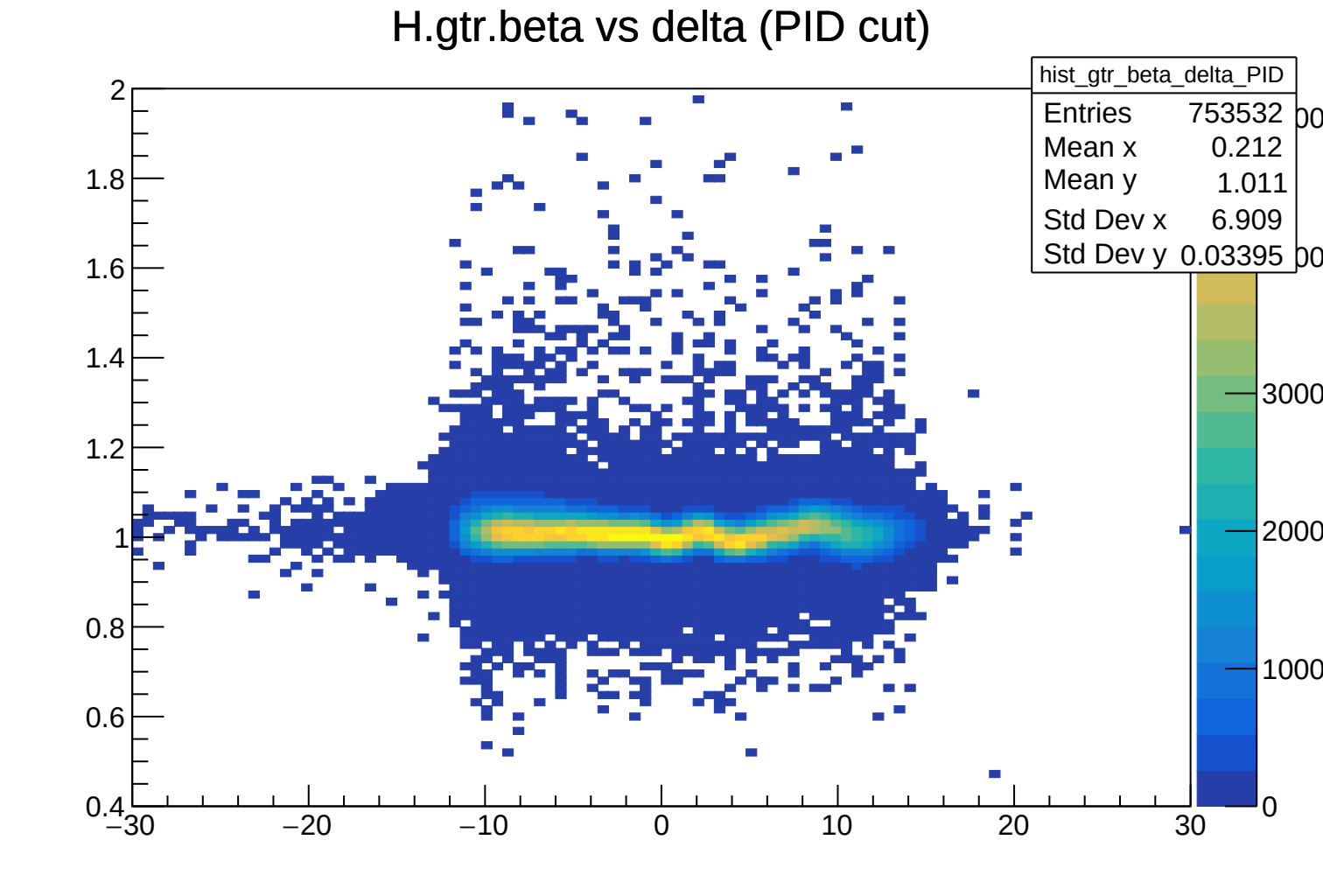

H.gtr.beta vs y_fp
hist_gtr_beta_yfp
Entries 2363948
Mean x −0.7354
Mean y 1.005
Std Dev x 8.644
Std Dev y 0.04474
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
1200
1000
8000
6000
4000
2000
0

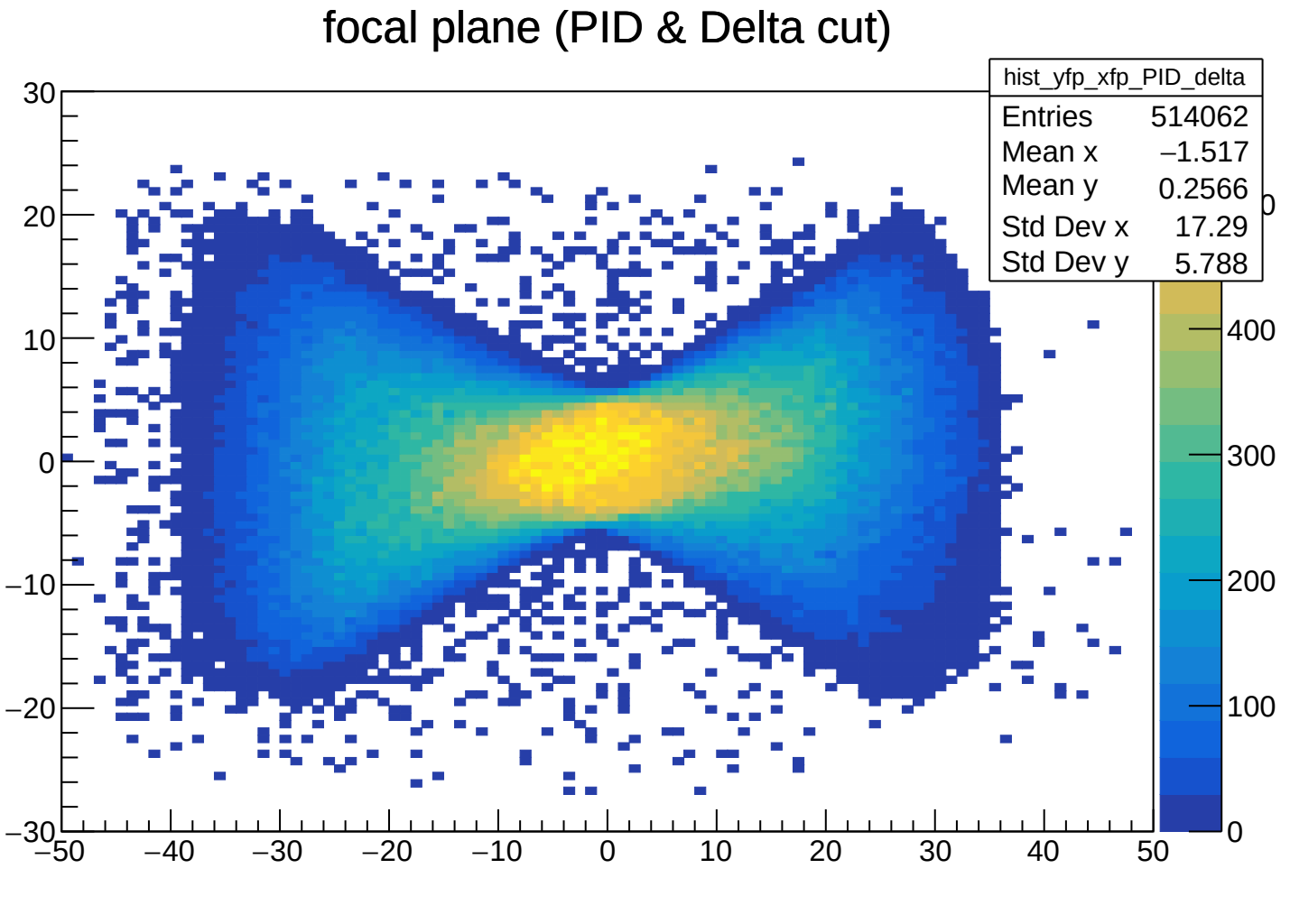

H.gtr.beta vs delta
hist_gtr_beta_delta
Entries 2363948
Mean x −1.133
Mean y 1.005
Std Dev x 6.782
Std Dev y 0.04432
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
1000
8000
6000
4000
2000
0

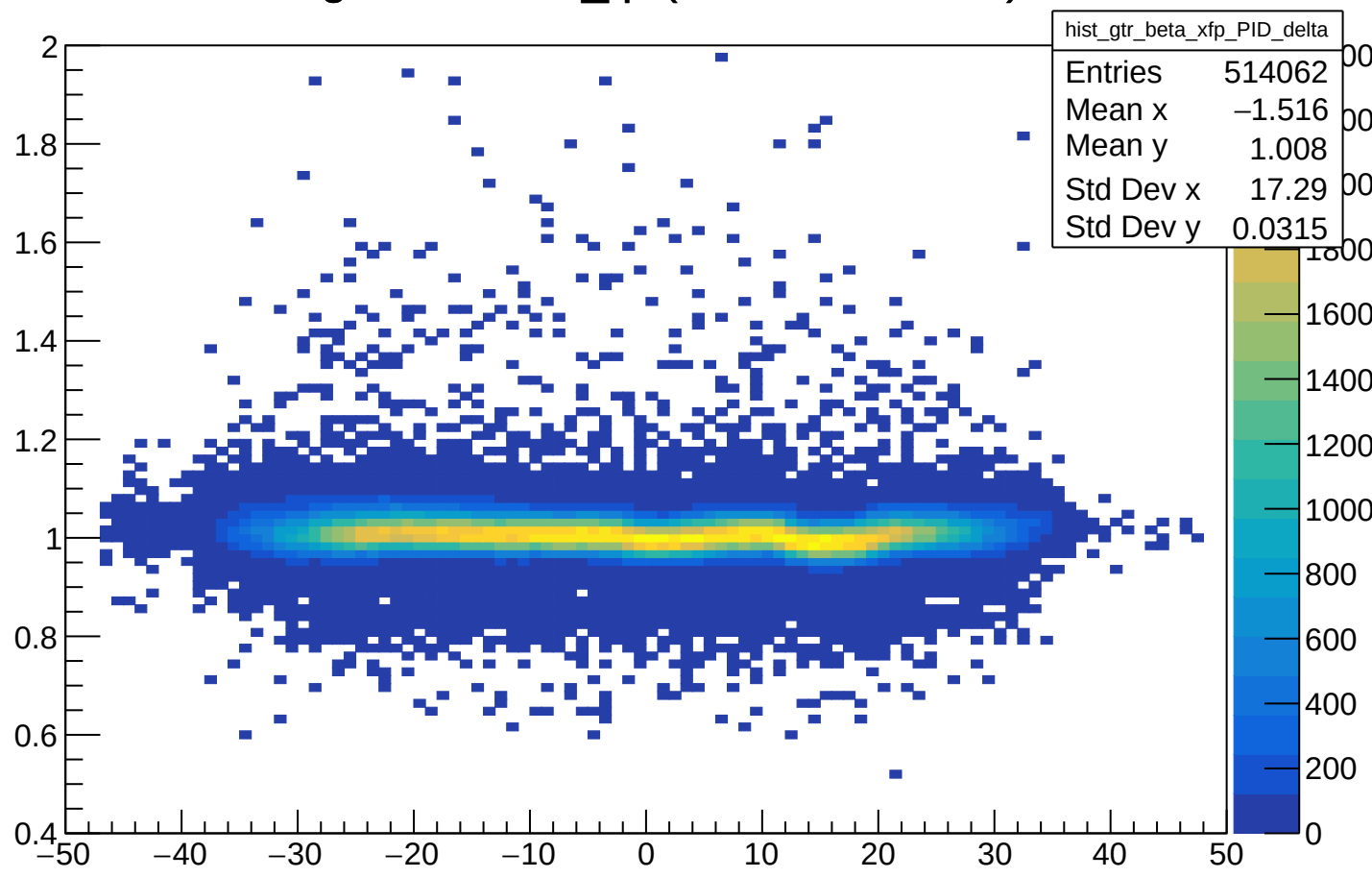

focal plane (PID cut)
hist_yfp_xfp_PID
Entries 753532
Mean x −0.5677
Mean y 0.2356
Std Dev x 24.81
Std Dev y 7.672
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
400
300
200
100
0

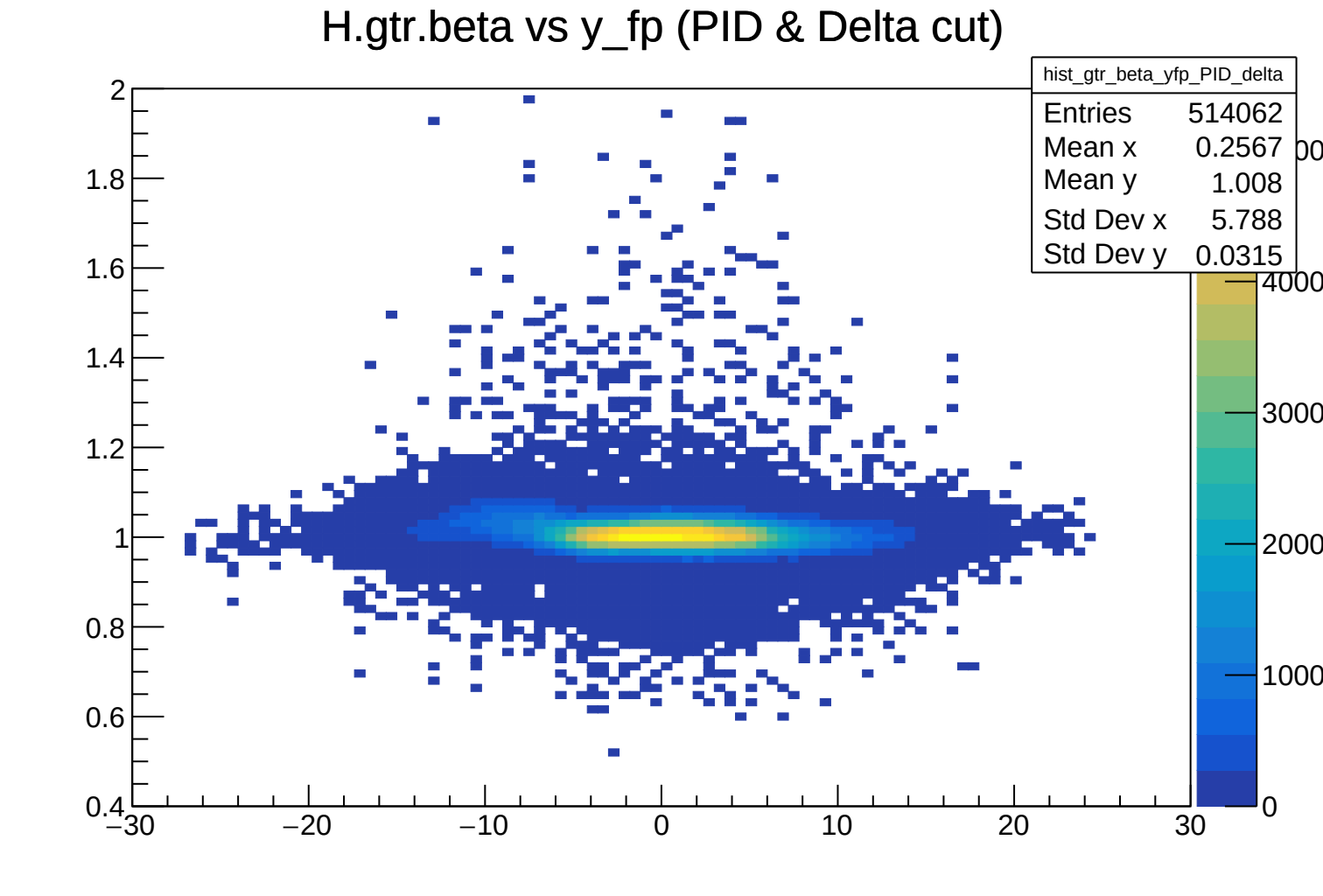

H.gtr.beta vs x_fp (PID cut)
hist_gtr_beta_xfp_PID
Entries 753532
Mean x −0.5553
Mean y 1.011
Std Dev x 24.8
Std Dev y 0.03398
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−50
−40
−30
−20
−10
0
10
20
30
40
50
1800
1600
1400
1200
1000
800
600
400
200
0

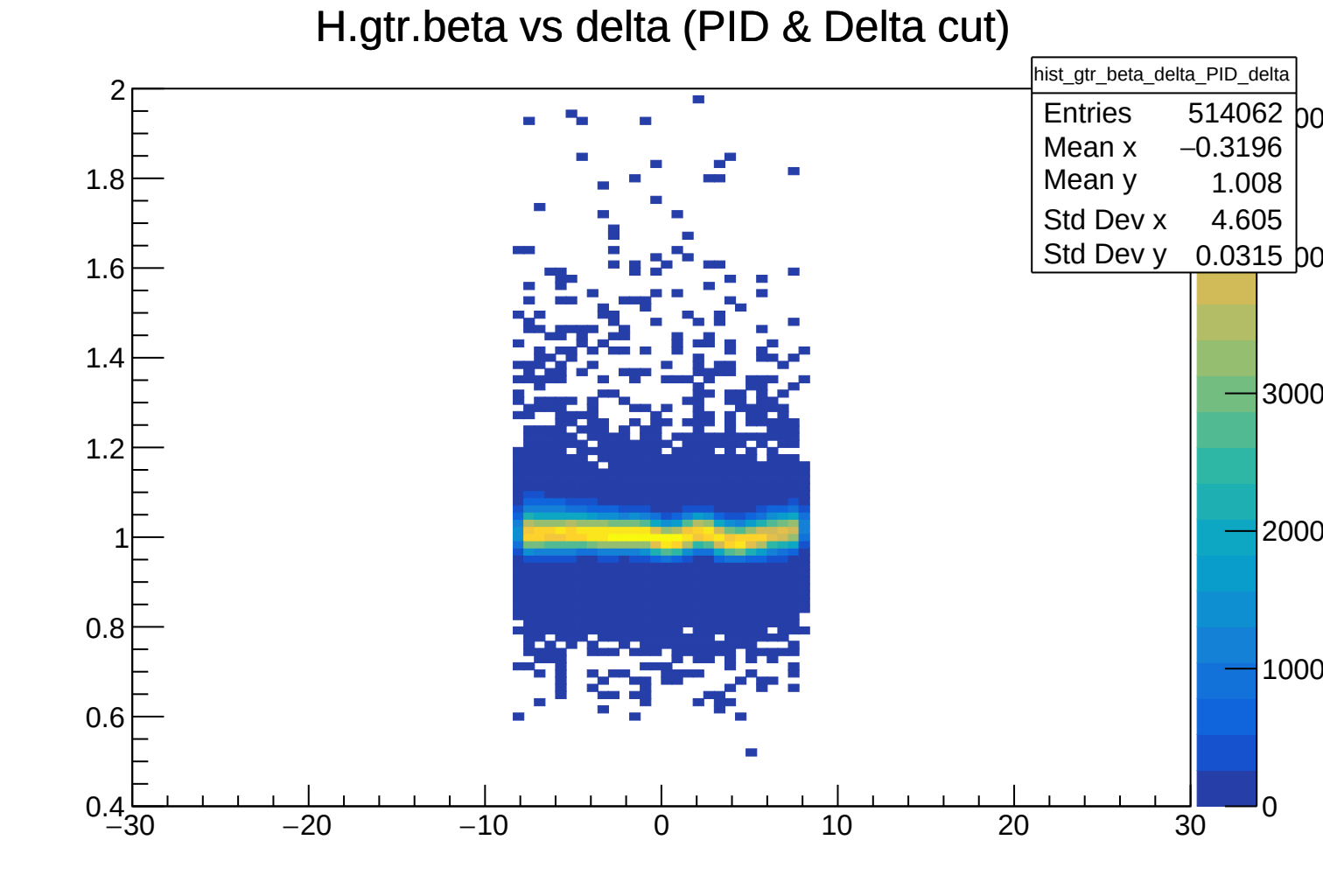

H.gtr.beta vs y_fp (PID cut)
hist_gtr_beta_yfp_PID
Entries 753532
Mean x 0.2357
Mean y 1.011
Std Dev x 7.671
Std Dev y 0.03398
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
4000
3000
2000
1000
0


H.gtr.beta vs delta (PID cut)
hist_gtr_beta_delta_PID
Entries 753532
Mean x 0.212
Mean y 1.011
Std Dev x 6.909
Std Dev y 0.03395
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


focal plane (PID & Delta cut)
hist_yfp_xfp_PID_delta
Entries 514062
Mean x –1.517
Mean y 0.2566
Std Dev x 17.29
Std Dev y 5.788
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 514062
Mean x −1.516
Mean y 1.008
Std Dev x 17.29
Std Dev y 0.0315
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
1600
1400
1200
1000
800
600
400
200
0


H.gtr.beta vs y_fp (PID & Delta cut)
hist_gtr_beta_yfp_PID_delta
Entries 514062
Mean x 0.2567
Mean y 1.008
Std Dev x 5.788
Std Dev y 0.0315
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 514062
Mean x −0.3196
Mean y 1.008
Std Dev x 4.605
Std Dev y 0.0315
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