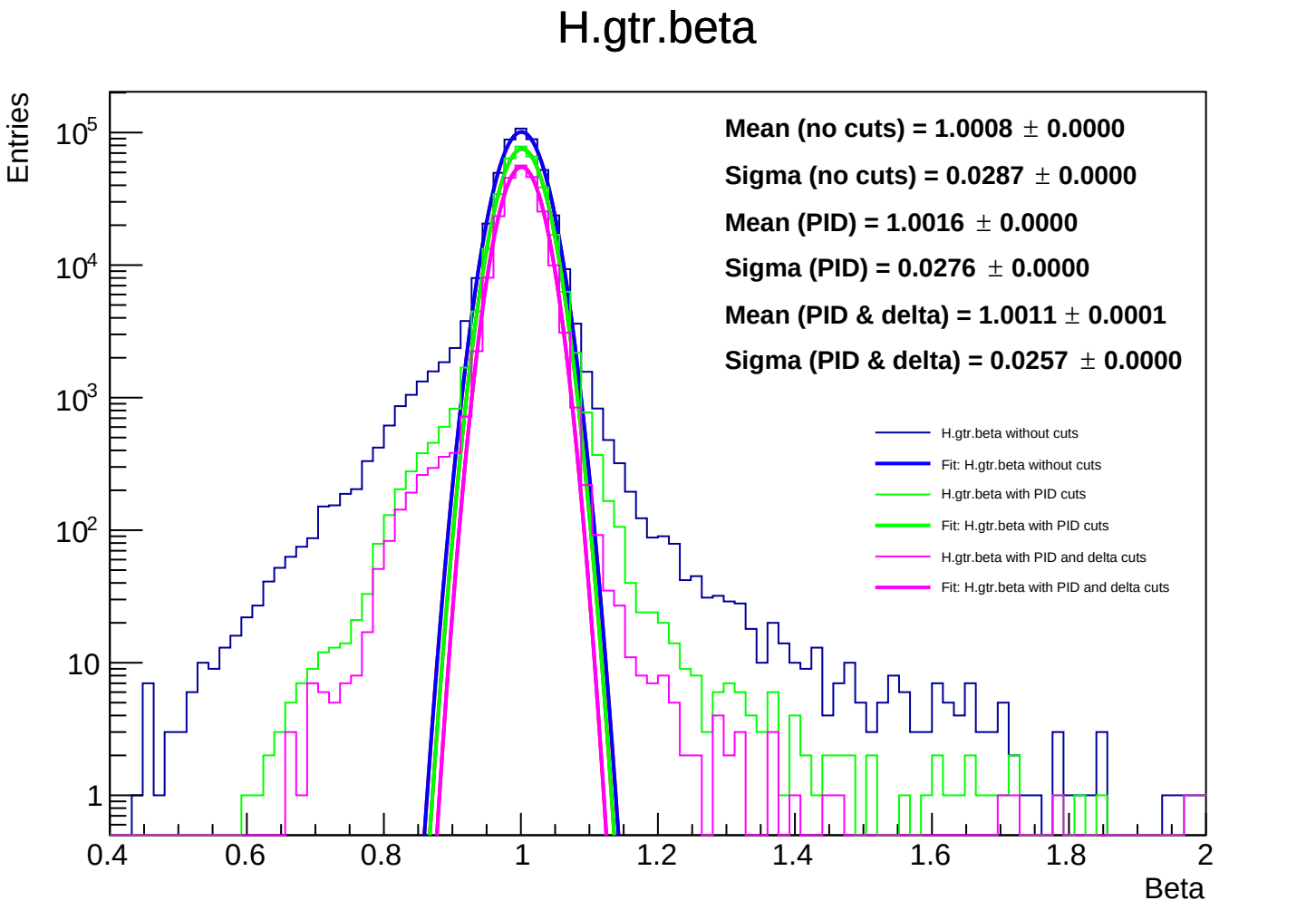
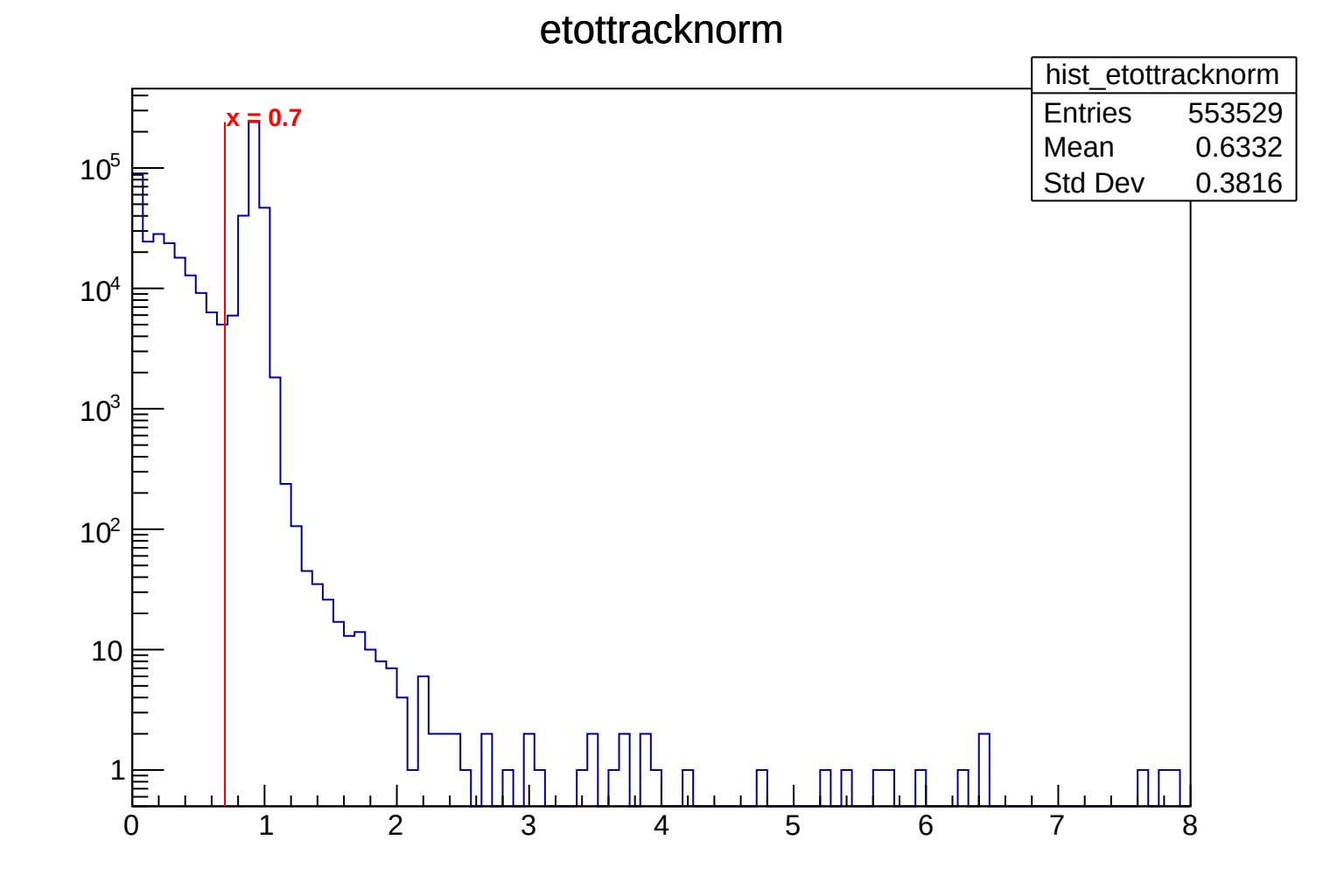
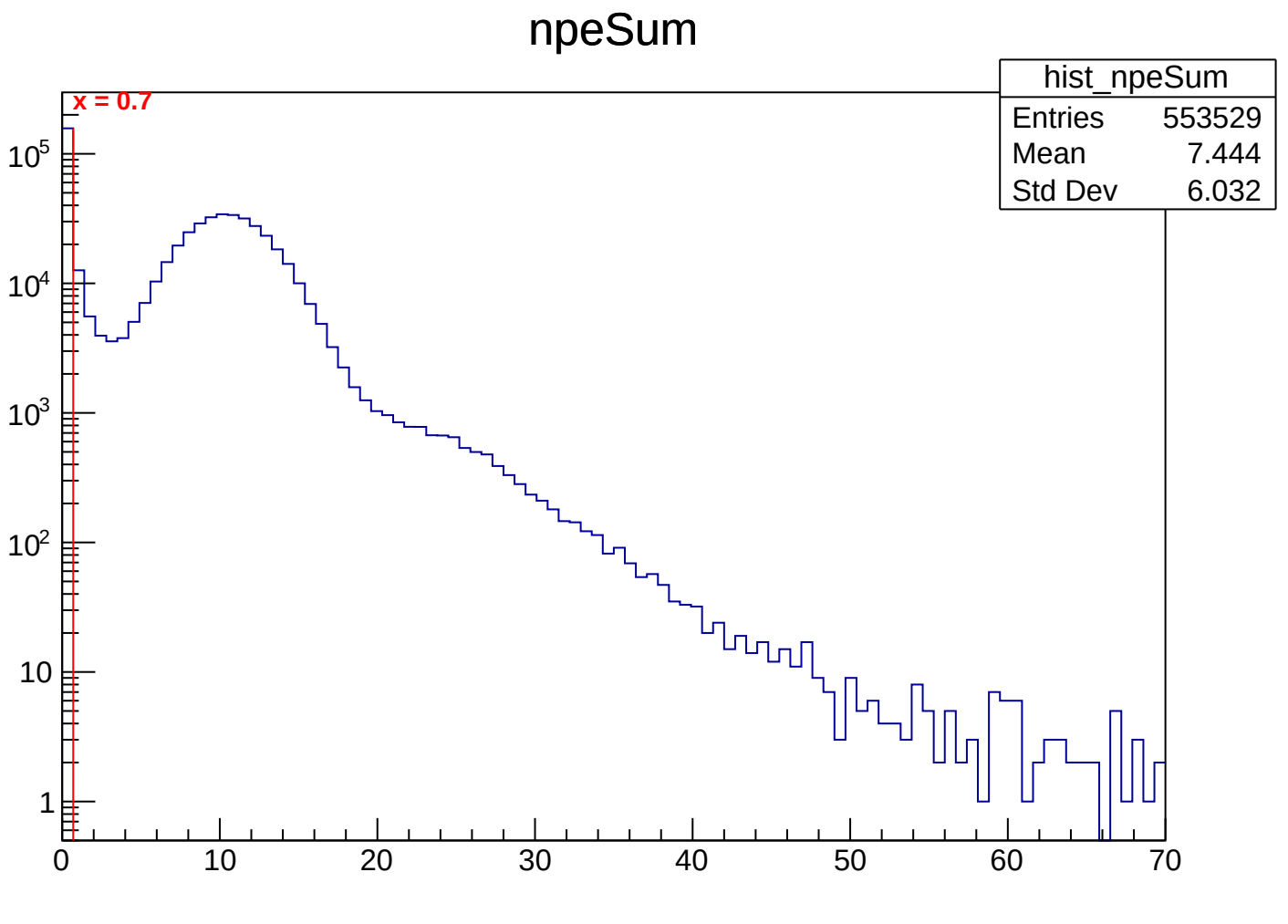
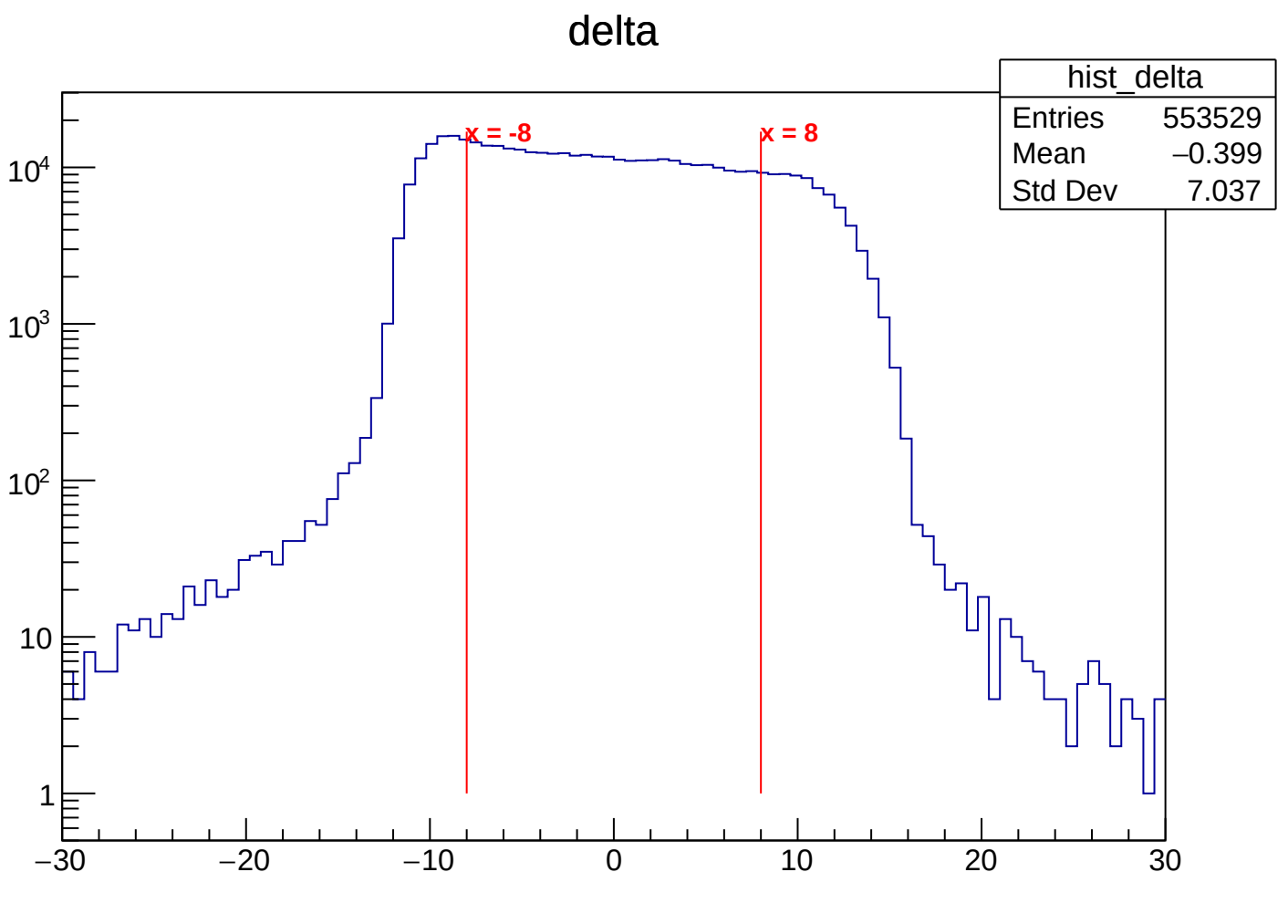
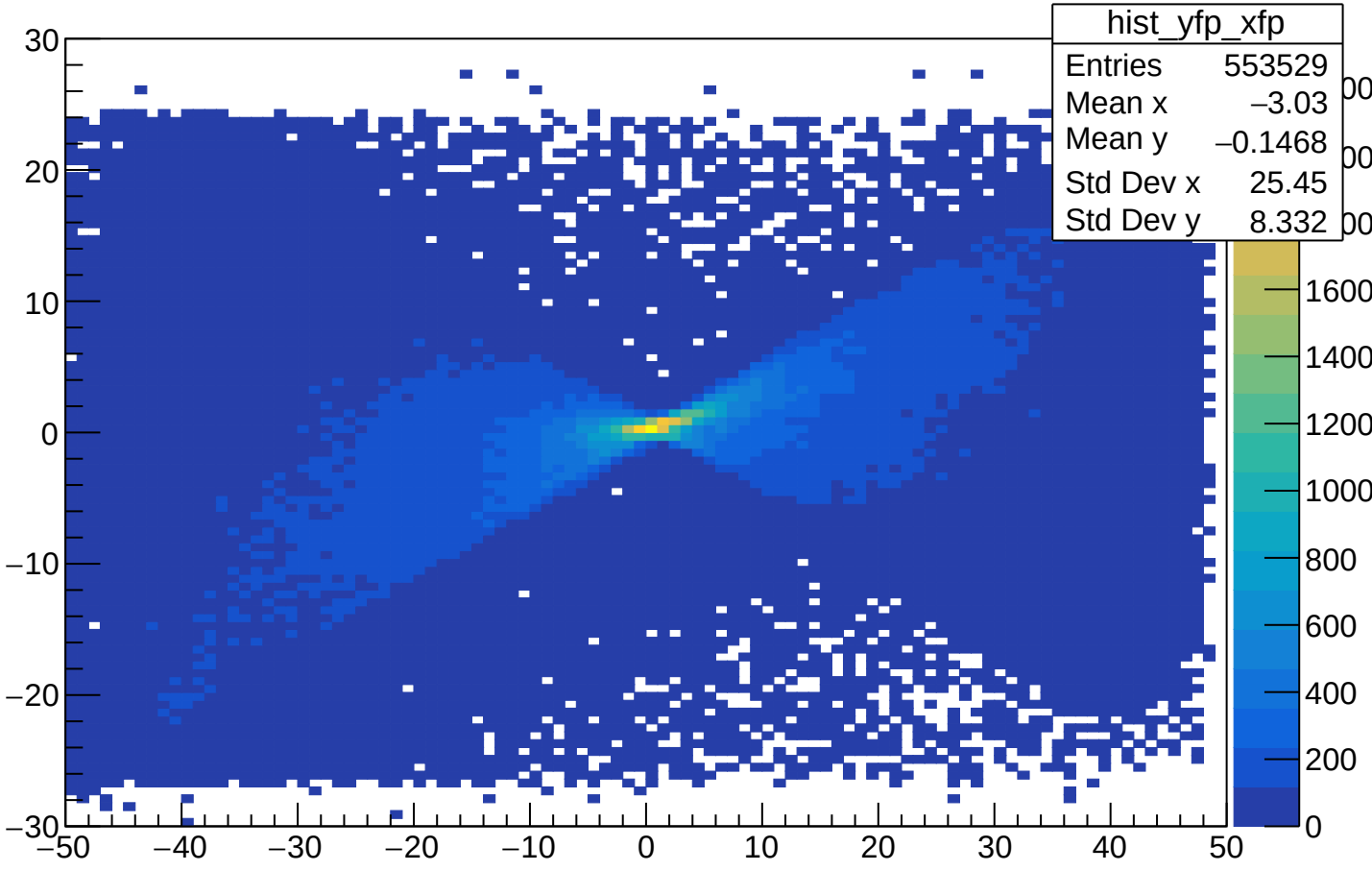
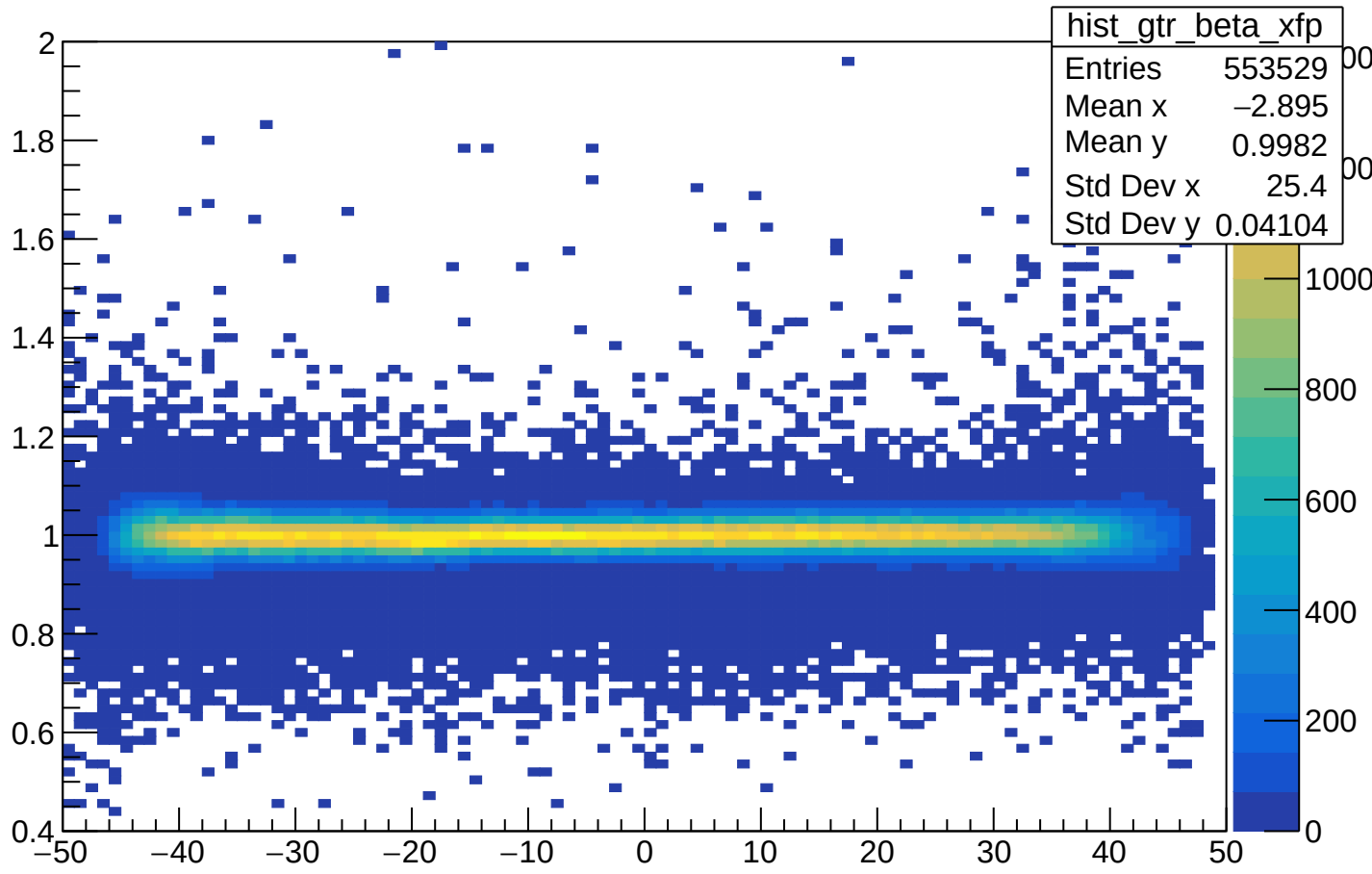

H.gtr.beta
Entries
Beta
Mean (no cuts) = 1.0008 ± 0.0000
Sigma (no cuts) = 0.0287 ± 0.0000
Mean (PID) = 1.0016 ± 0.0000
Sigma (PID) = 0.0276 ± 0.0000
Mean (PID & delta) = 1.0011 ± 0.0001
Sigma (PID & delta) = 0.0257 ± 0.0000
H.gtr.beta without cuts
Fit: H.gtr.beta without cuts
H.gtr.beta with PID cuts
Fit: H.gtr.beta with PID cuts
H.gtr.beta with PID and delta cuts
Fit: H.gtr.beta with PID and delta cuts

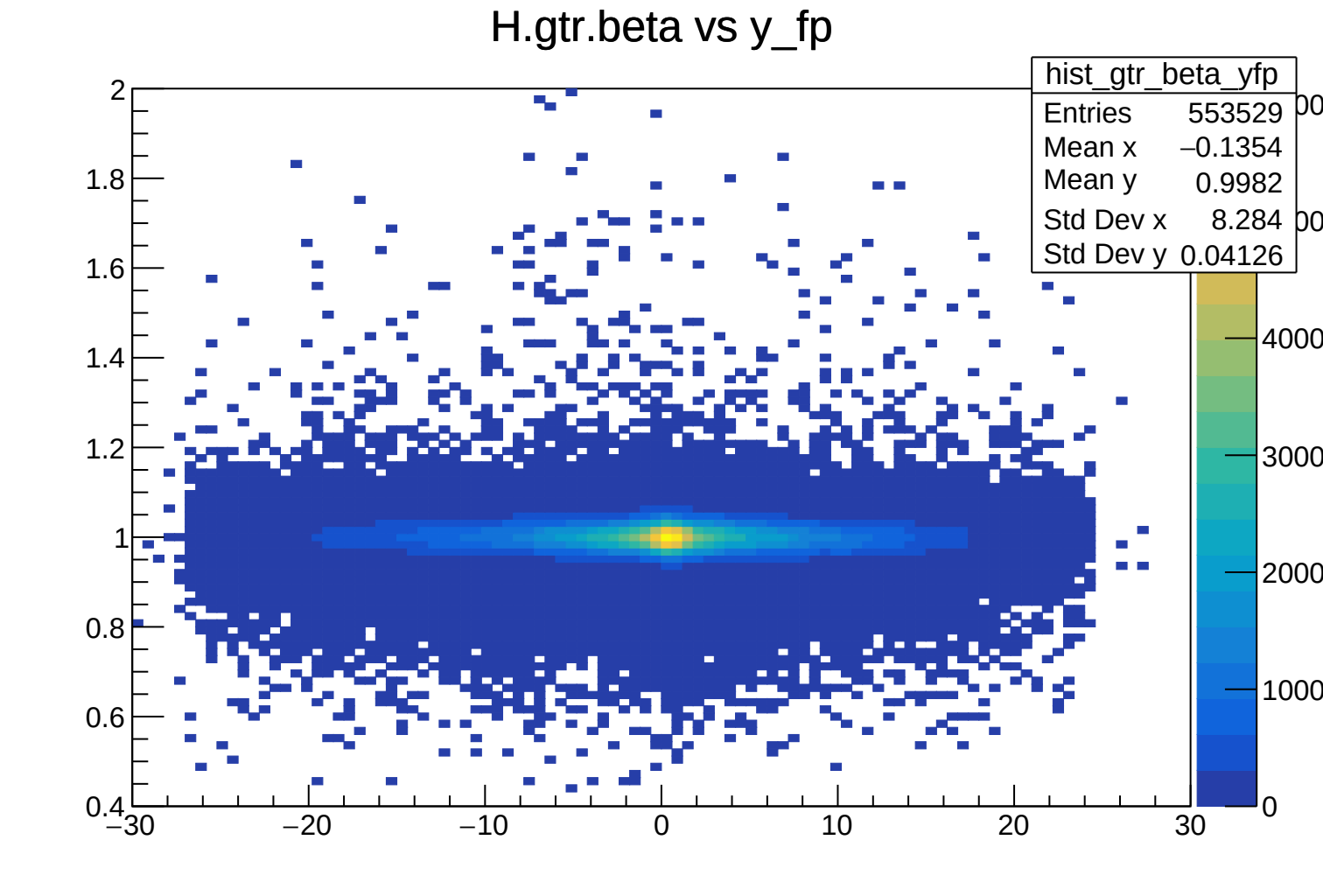

etottracknorm
hist_etottracknorm
Entries 553529
Mean 0.6332
Std Dev 0.3816
x = 0.7
10^5
10^4
10^3
10^2
10
1
0
1
2
3
4
5
6
7
8

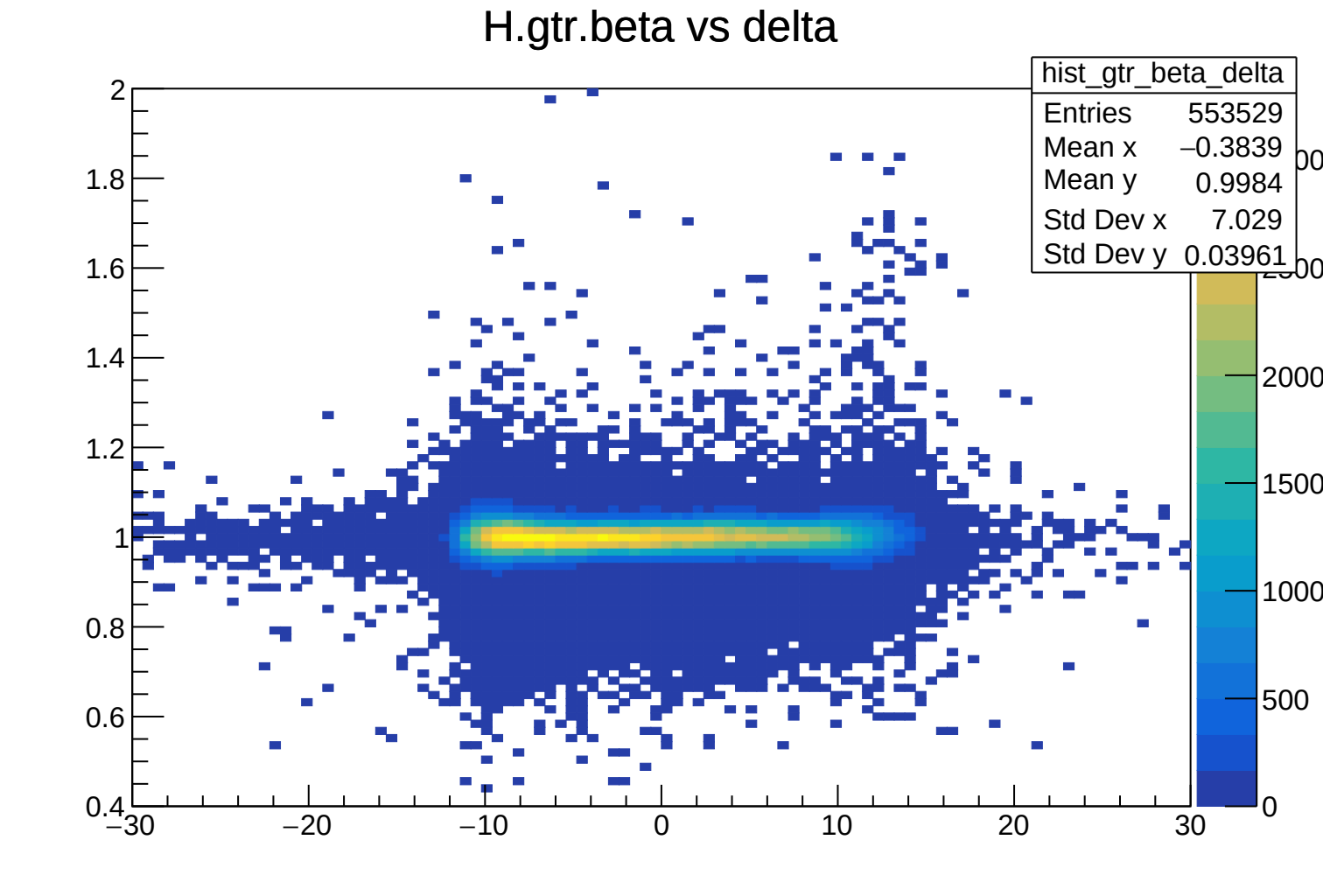

npeSum
hist_npeSum
Entries 553529
Mean 7.444
Std Dev 6.032
x = 0.7
10^5
10^4
10^3
10^2
10
1
0
10
20
30
40
50
60
70

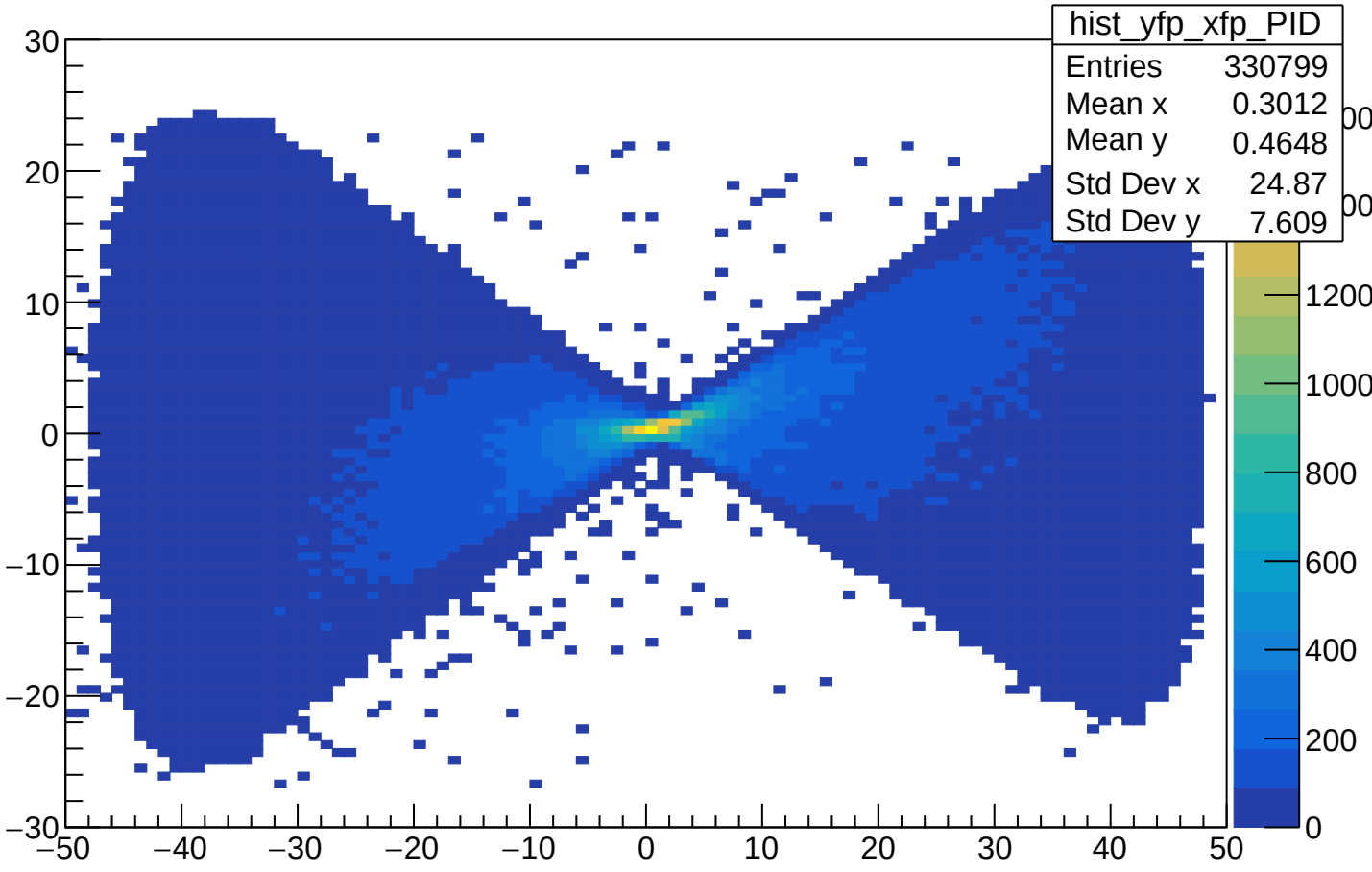

delta
hist_delta
Entries 553529
Mean –0.399
Std Dev 7.037
x = -8
x = 8
10^4
10^3
10^2
10
1
–30
–20
–10
0
10
20
30

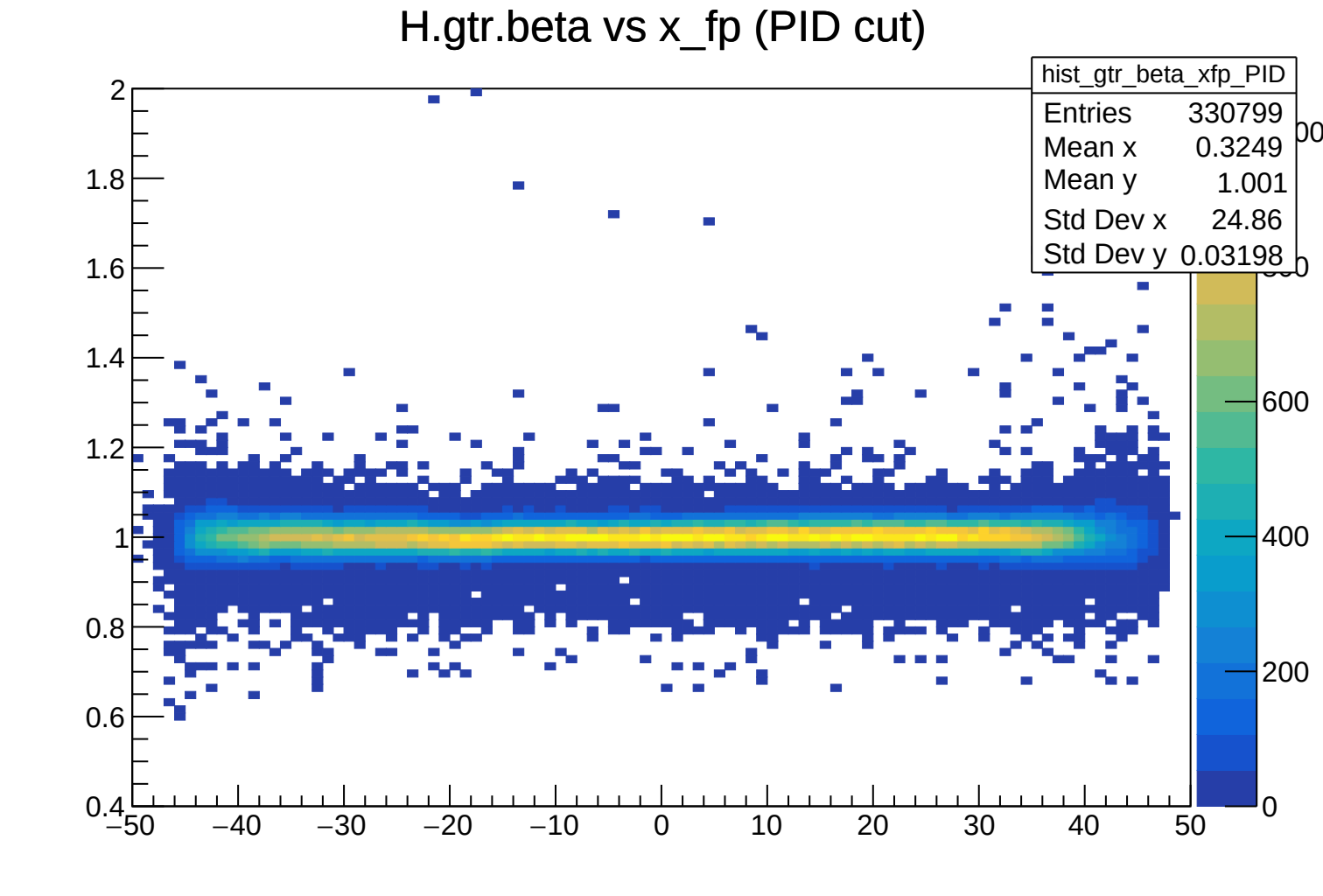

focal plane
hist_yfp_xfp
Entries 553529
Mean x −3.03
Mean y −0.1468
Std Dev x 25.45
Std Dev y 8.332
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
1600
1400
1200
1000
800
600
400
200
0

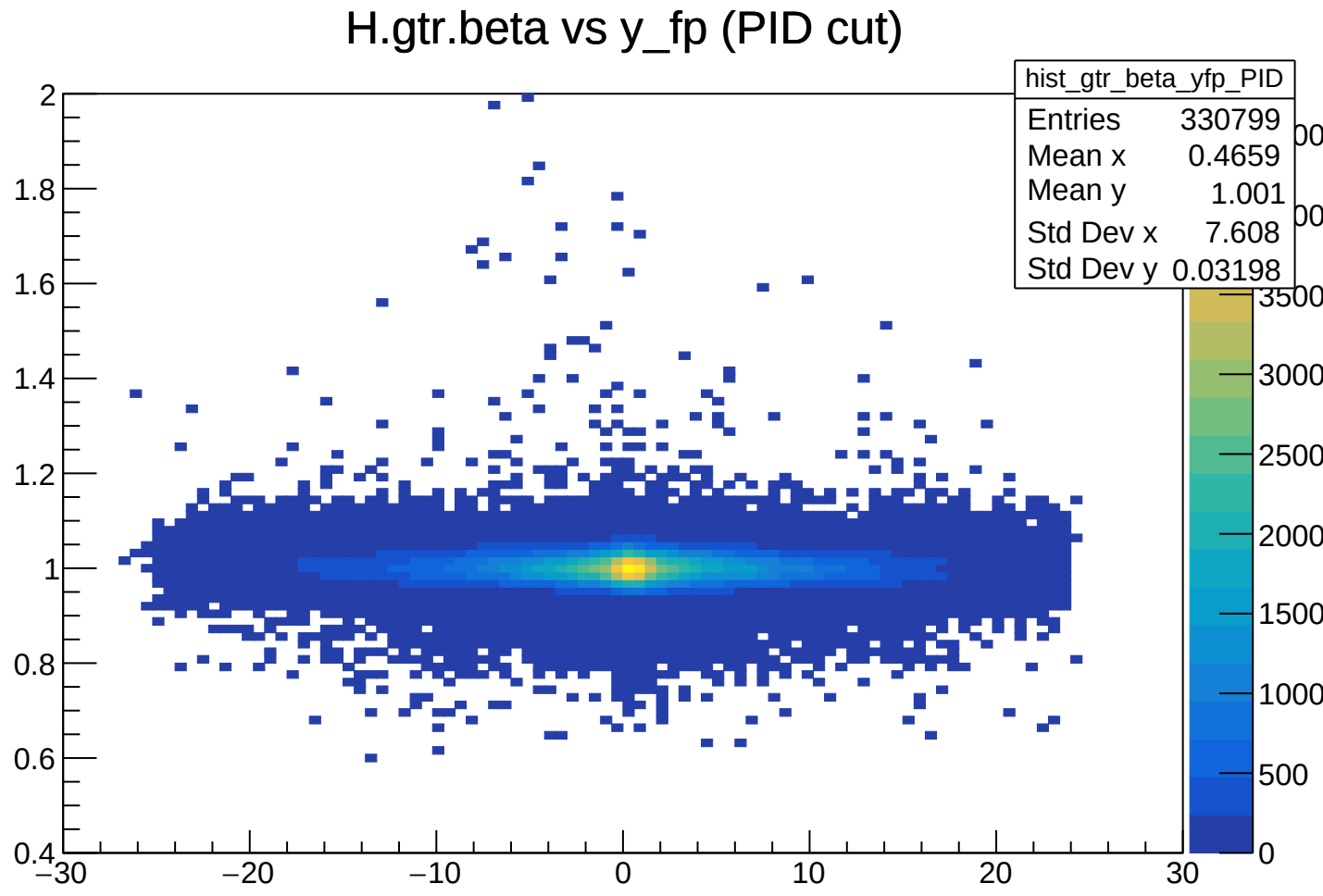

H.gtr.beta vs x_fp
hist_gtr_beta_xfp
Entries 553529
Mean x −2.895
Mean y 0.9982
Std Dev x 25.4
Std Dev y 0.04104
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−50
−40
−30
−20
−10
0
10
20
30
40
50
1000
800
600
400
200
0

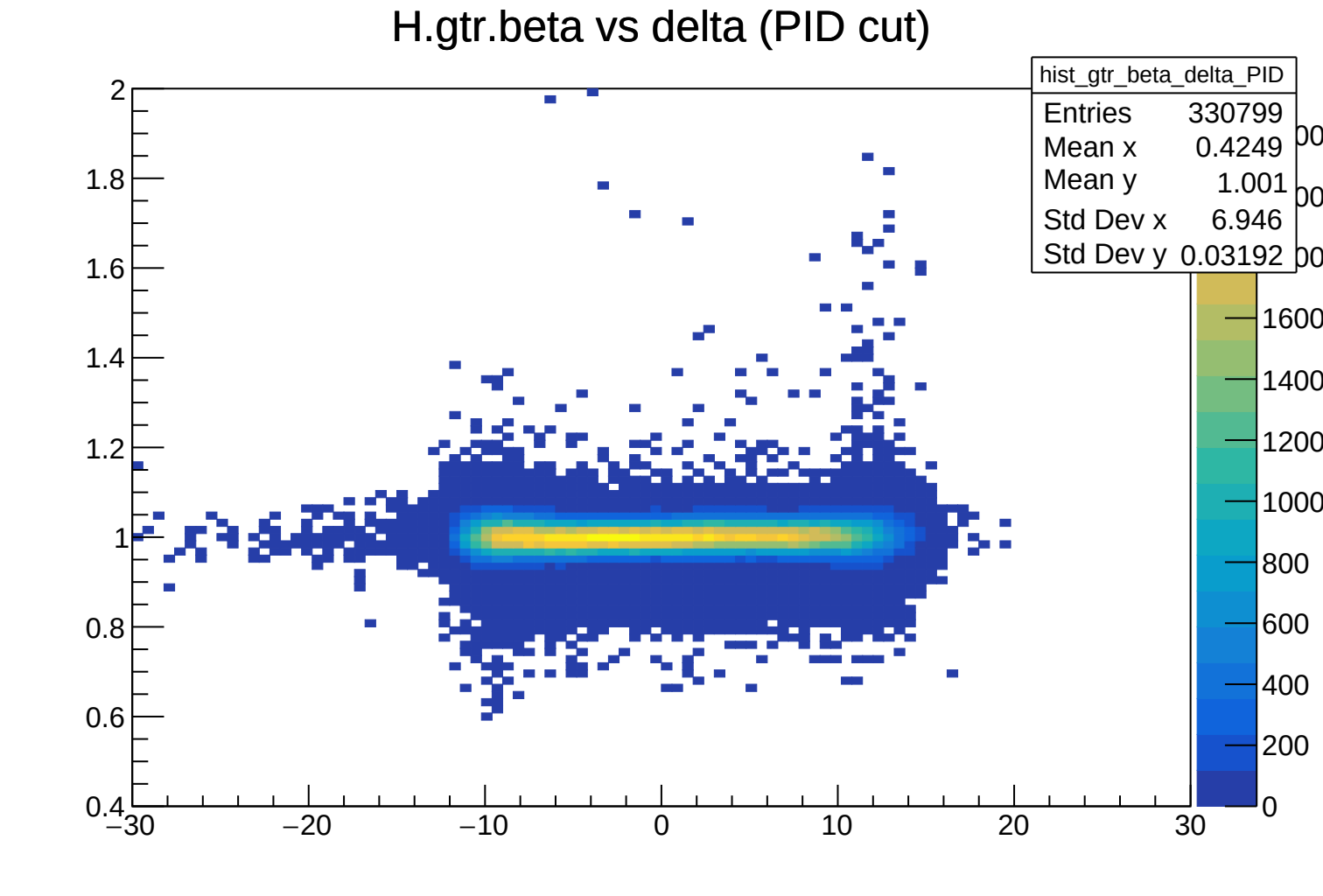

H.gtr.beta vs y_fp
hist_gtr_beta_yfp
Entries 553529
Mean x −0.1354
Mean y 0.9982
Std Dev x 8.284
Std Dev y 0.04126
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
4000
3000
2000
1000
0

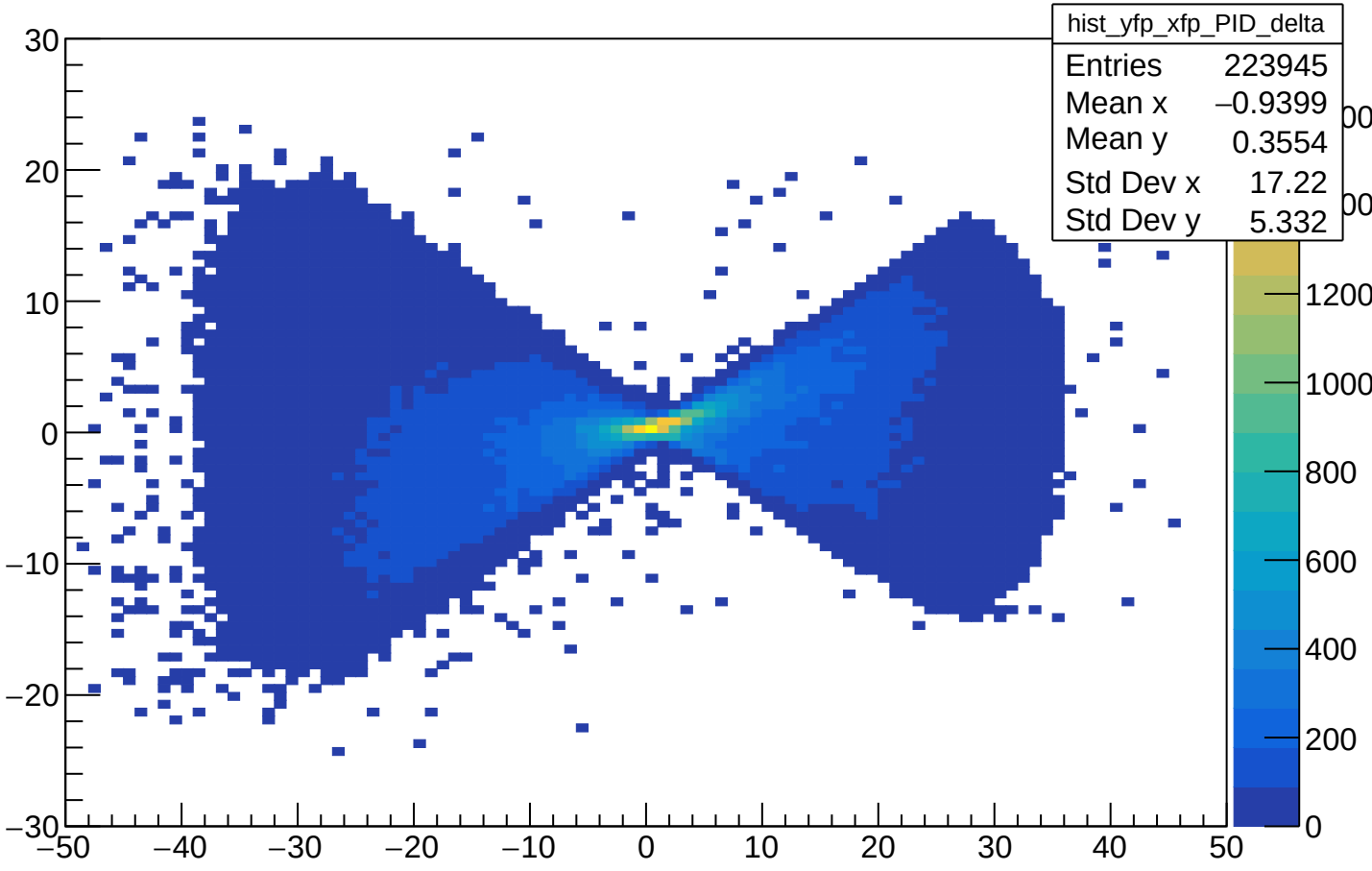

H.gtr.beta vs delta
hist_gtr_beta_delta
Entries 553529
Mean x −0.3839
Mean y 0.9984
Std Dev x 7.029
Std Dev y 0.03961
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
2000
1500
1000
500
0

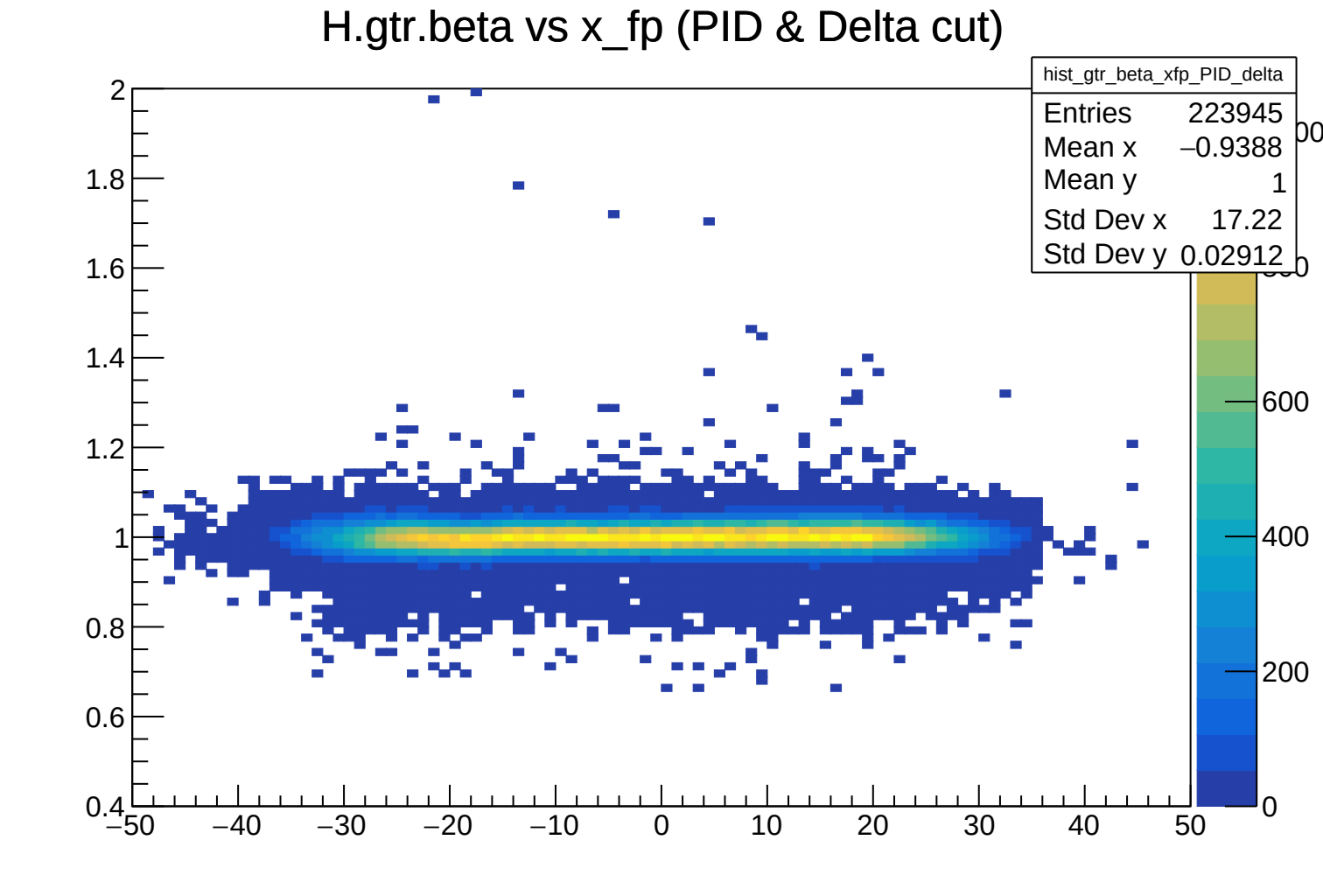

focal plane (PID cut)
hist_yfp_xfp_PID
Entries 330799
Mean x 0.3012
Mean y 0.4648
Std Dev x 24.87
Std Dev y 7.609
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
1200
1000
800
600
400
200
0

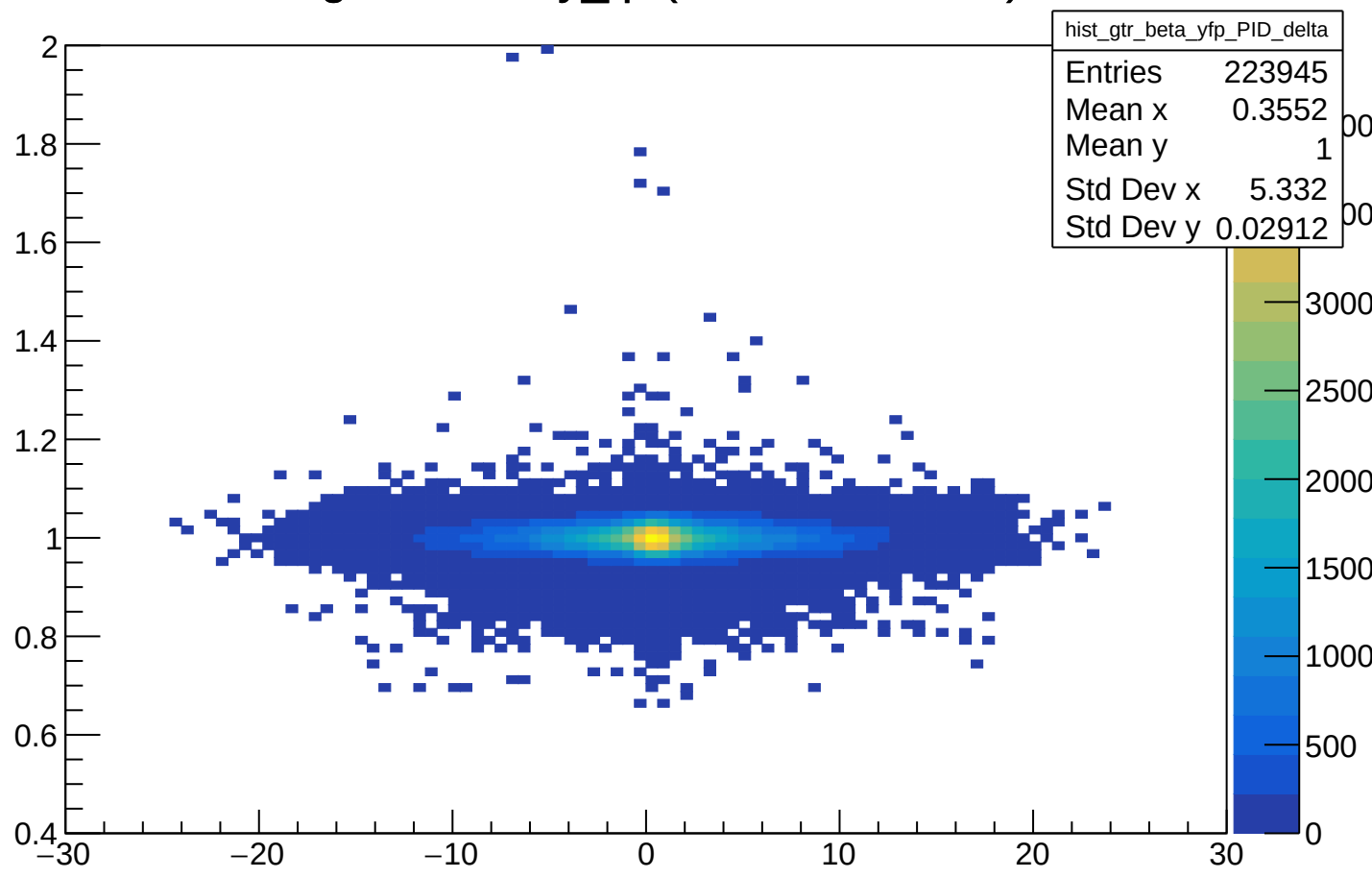

H.gtr.beta vs x_fp (PID cut)
hist_gtr_beta_xfp_PID
Entries 330799
Mean x 0.3249
Mean y 1.001
Std Dev x 24.86
Std Dev y 0.03198
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−50
−40
−30
−20
−10
0
10
20
30
40
50
600
400
200
0

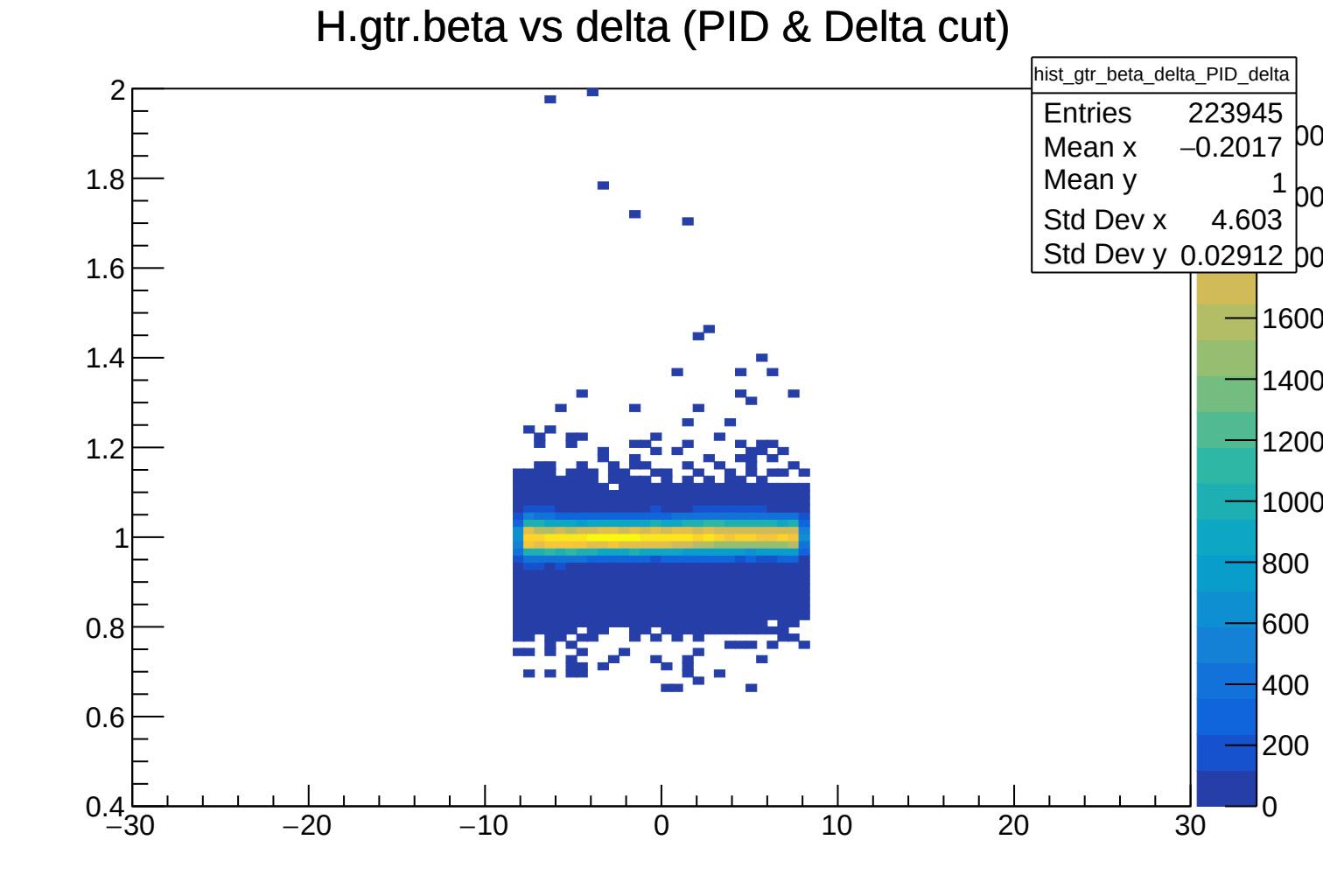

H.gtr.beta vs y_fp (PID cut)
hist_gtr_beta_yfp_PID
Entries 330799
Mean x 0.4659
Mean y 1.001
Std Dev x 7.608
Std Dev y 0.03198
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
3500
3000
2500
2000
1500
1000
500
0


H.gtr.beta vs delta (PID cut)
hist_gtr_beta_delta_PID
Entries 330799
Mean x 0.4249
Mean y 1.001
Std Dev x 6.946
Std Dev y 0.03192
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
1600
1400
1200
1000
800
600
400
200
0


focal plane (PID & Delta cut)
hist_yfp_xfp_PID_delta
Entries 223945
Mean x −0.9399
Mean y 0.3554
Std Dev x 17.22
Std Dev y 5.332
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 223945
Mean x −0.9388
Mean y 1
Std Dev x 17.22
Std Dev y 0.02912
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
600
400
200
0


H.gtr.beta vs y_fp (PID & Delta cut)
hist_gtr_beta_yfp_PID_delta
Entries 223945
Mean x 0.3552
Mean y 1
Std Dev x 5.332
Std Dev y 0.02912
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
500
0


H.gtr.beta vs delta (PID & Delta cut)
hist_gtr_beta_delta_PID_delta
Entries 223945
Mean x −0.2017
Mean y 1
Std Dev x 4.603
Std Dev y 0.02912
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
1600
1400
1200
1000
800
600
400
200
0