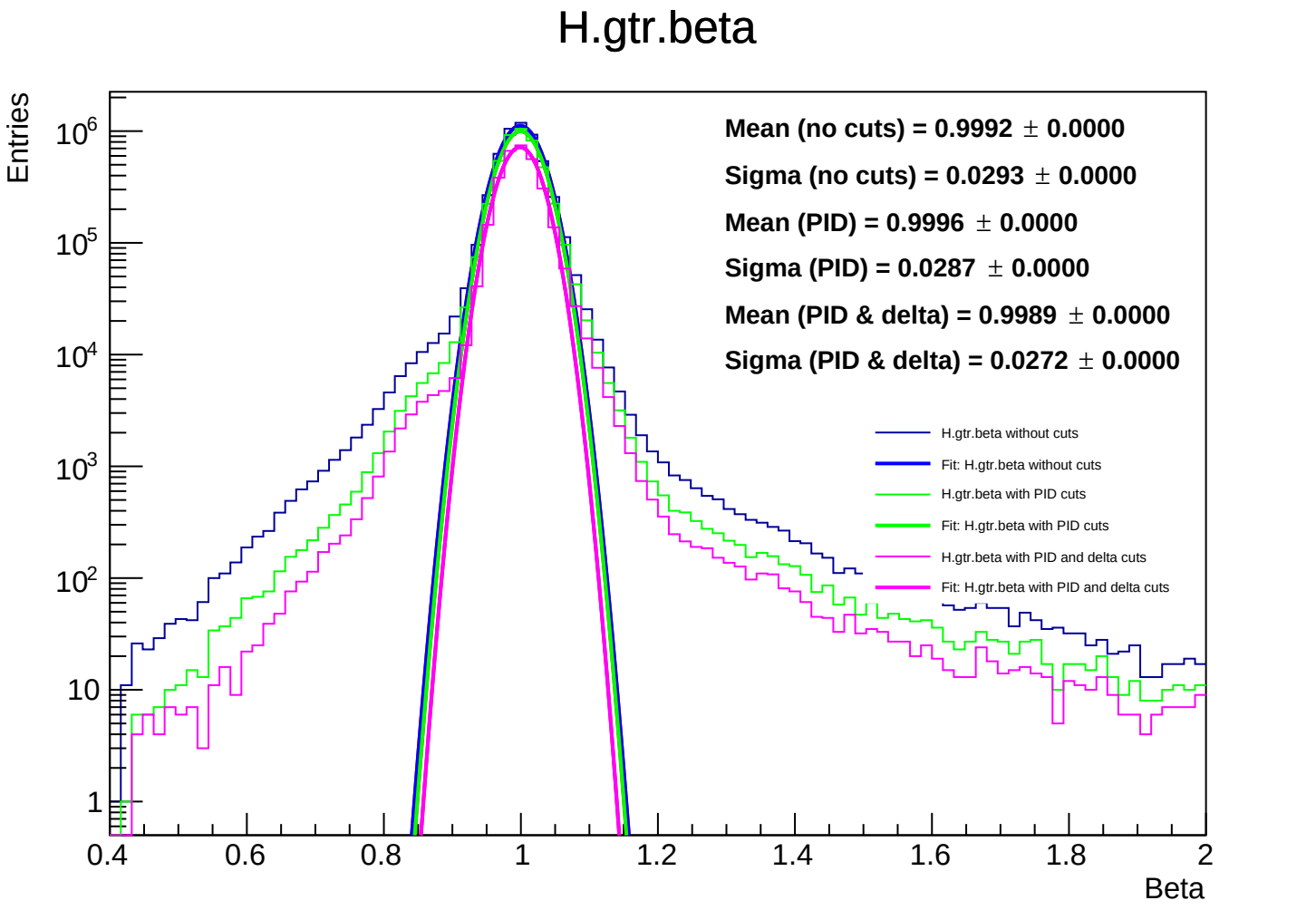
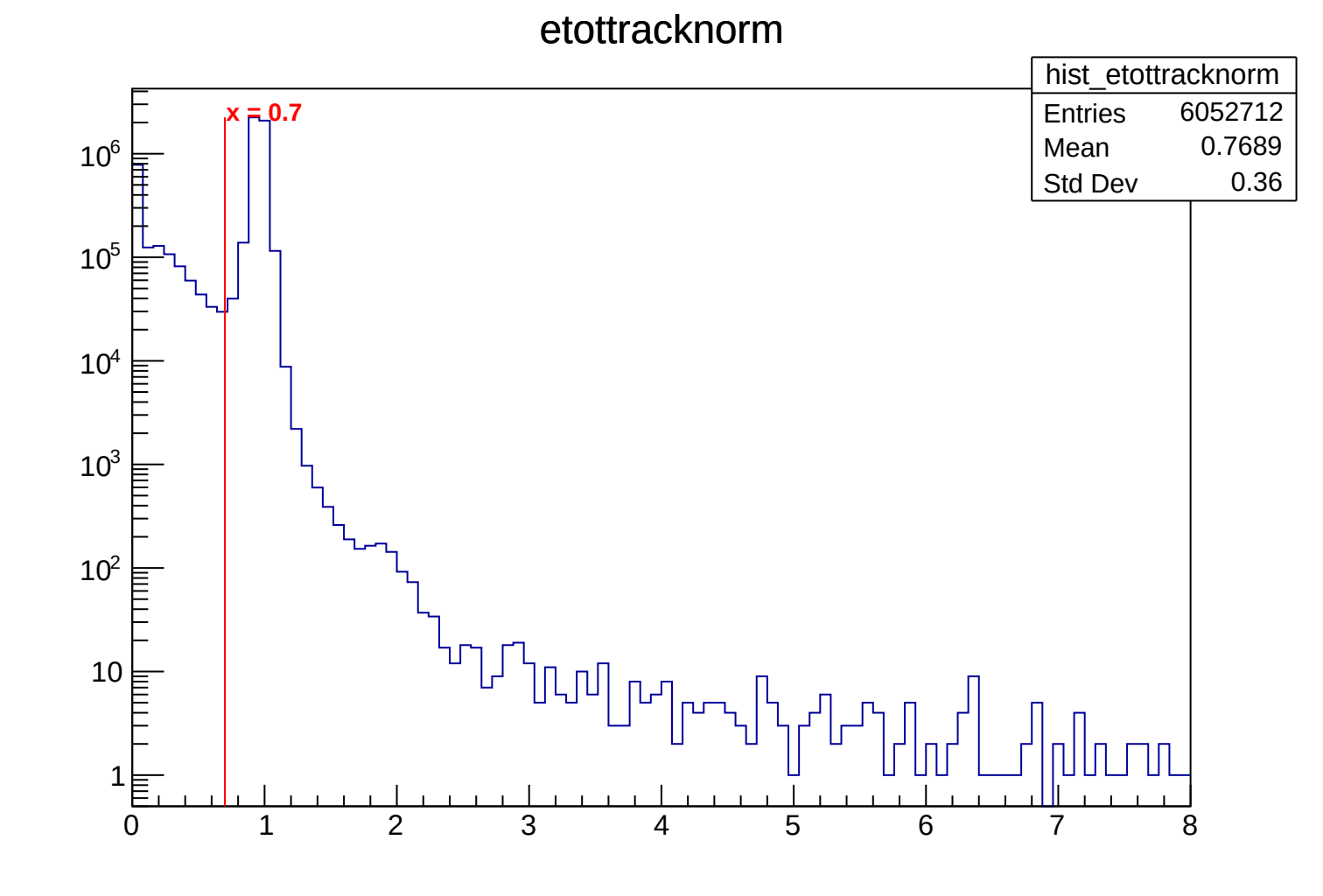
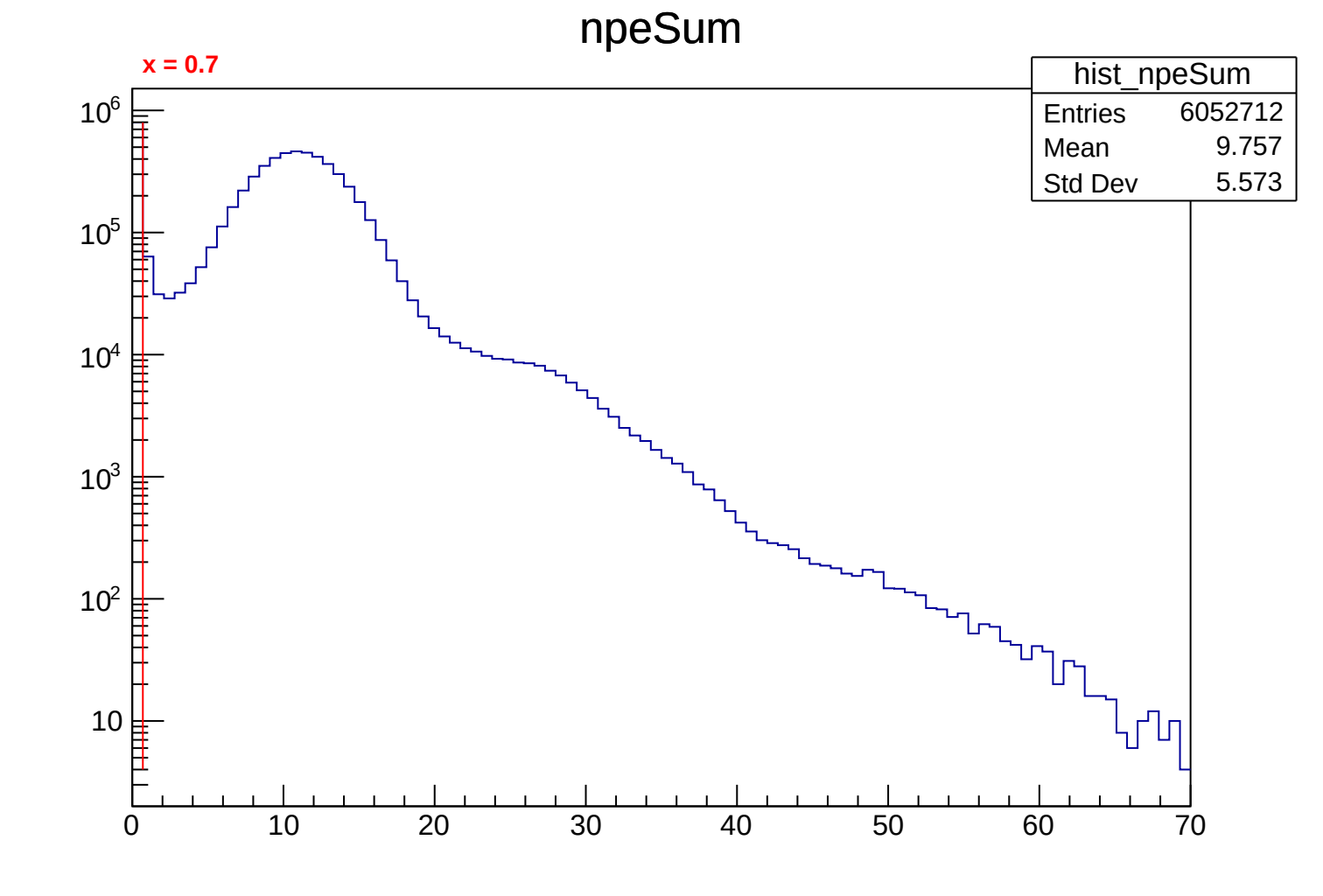
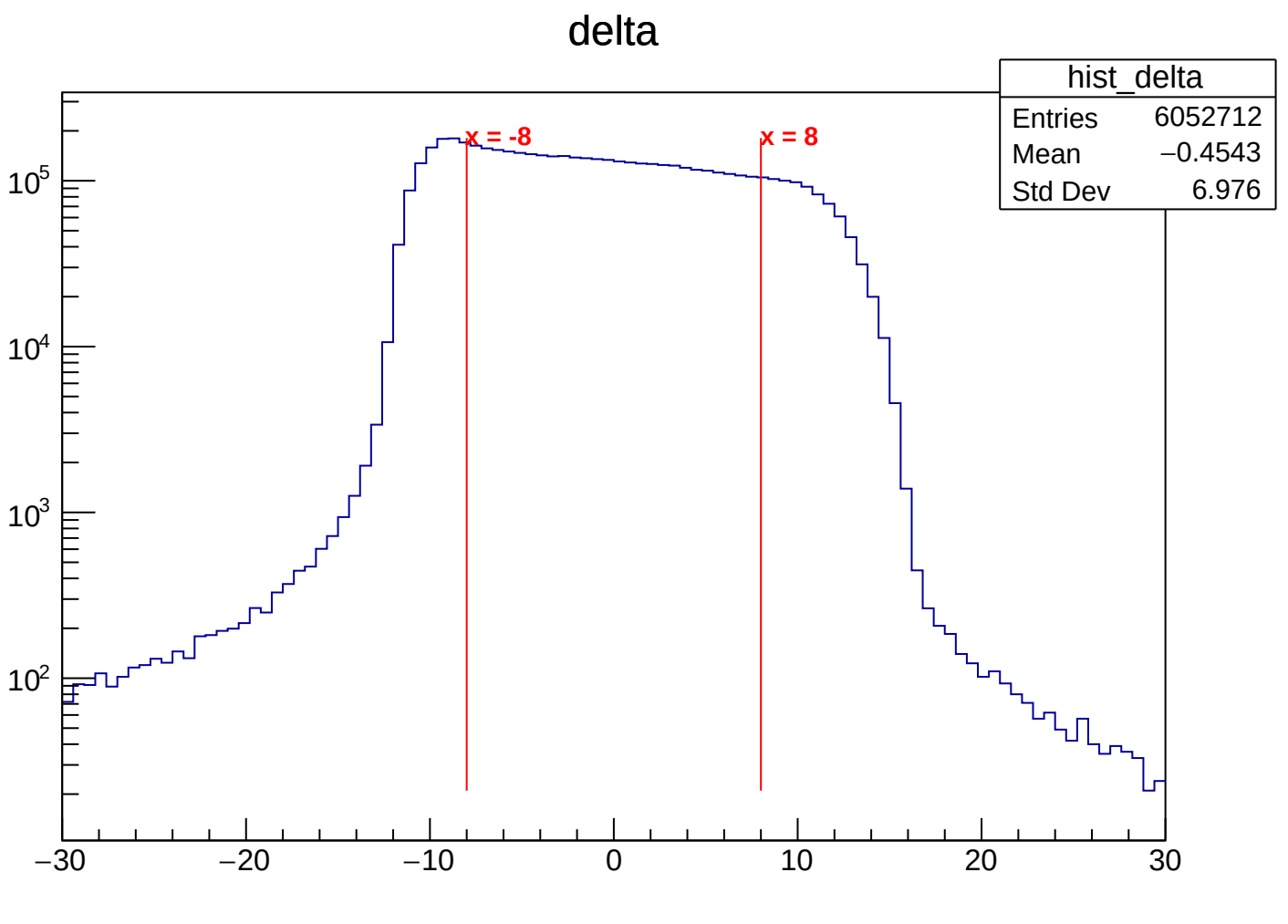
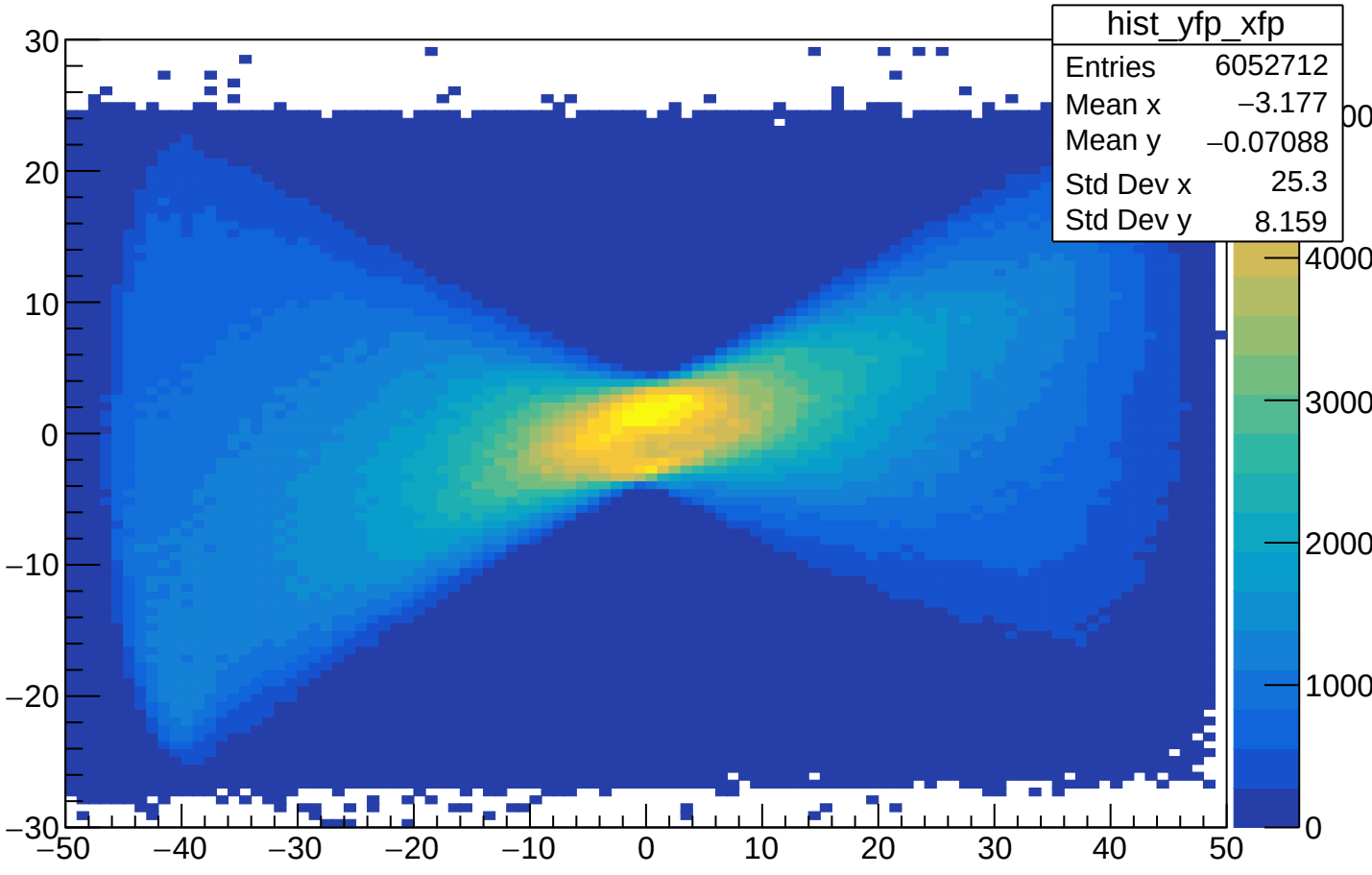
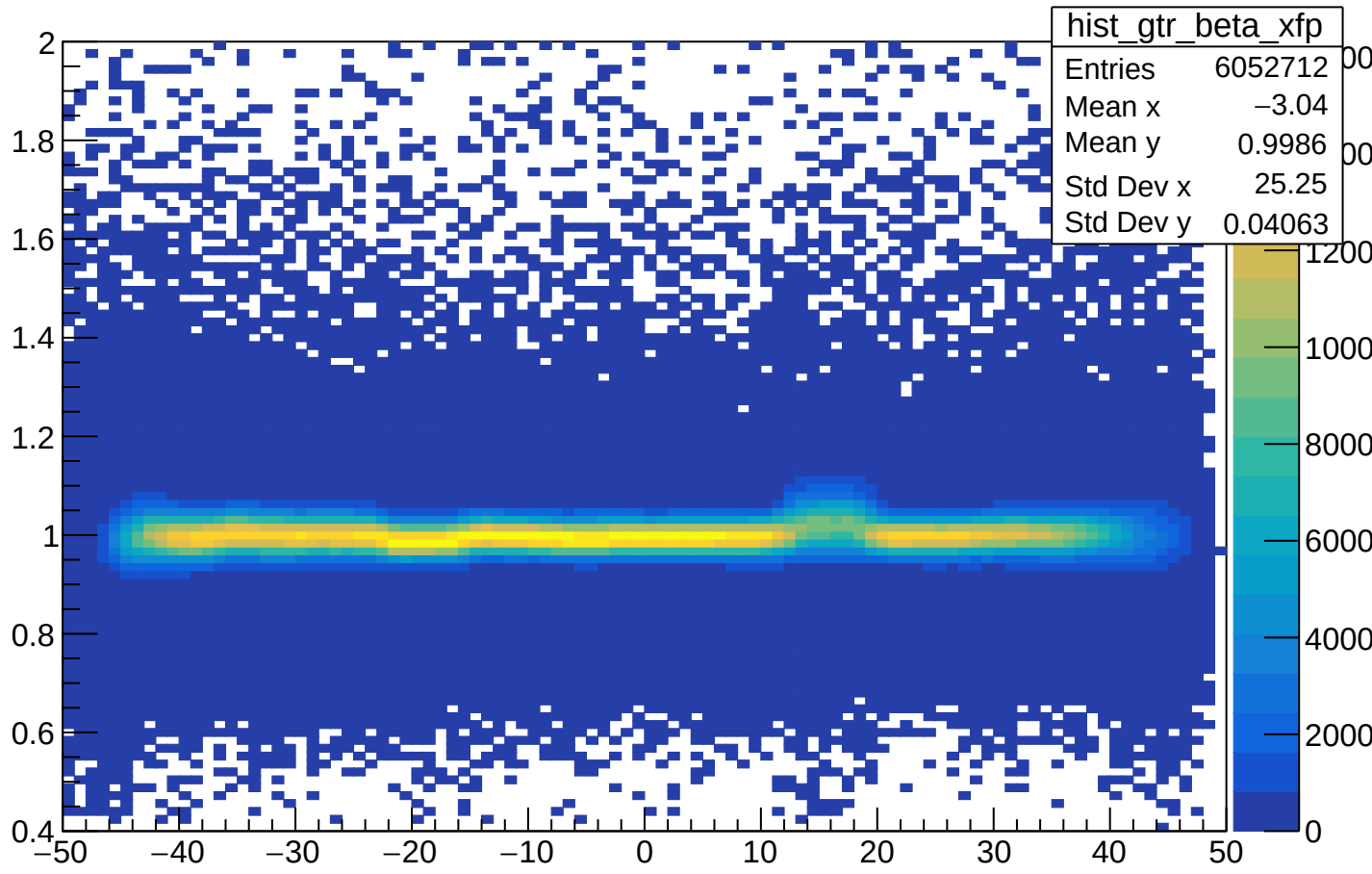

H.gtr.beta
Entries
Beta
Mean (no cuts) = 0.9992 ± 0.0000
Sigma (no cuts) = 0.0293 ± 0.0000
Mean (PID) = 0.9996 ± 0.0000
Sigma (PID) = 0.0287 ± 0.0000
Mean (PID & delta) = 0.9989 ± 0.0000
Sigma (PID & delta) = 0.0272 ± 0.0000
H.gtr.beta without cuts
Fit: H.gtr.beta without cuts
H.gtr.beta with PID cuts
Fit: H.gtr.beta with PID cuts
H.gtr.beta with PID and delta cuts
Fit: H.gtr.beta with PID and delta cuts

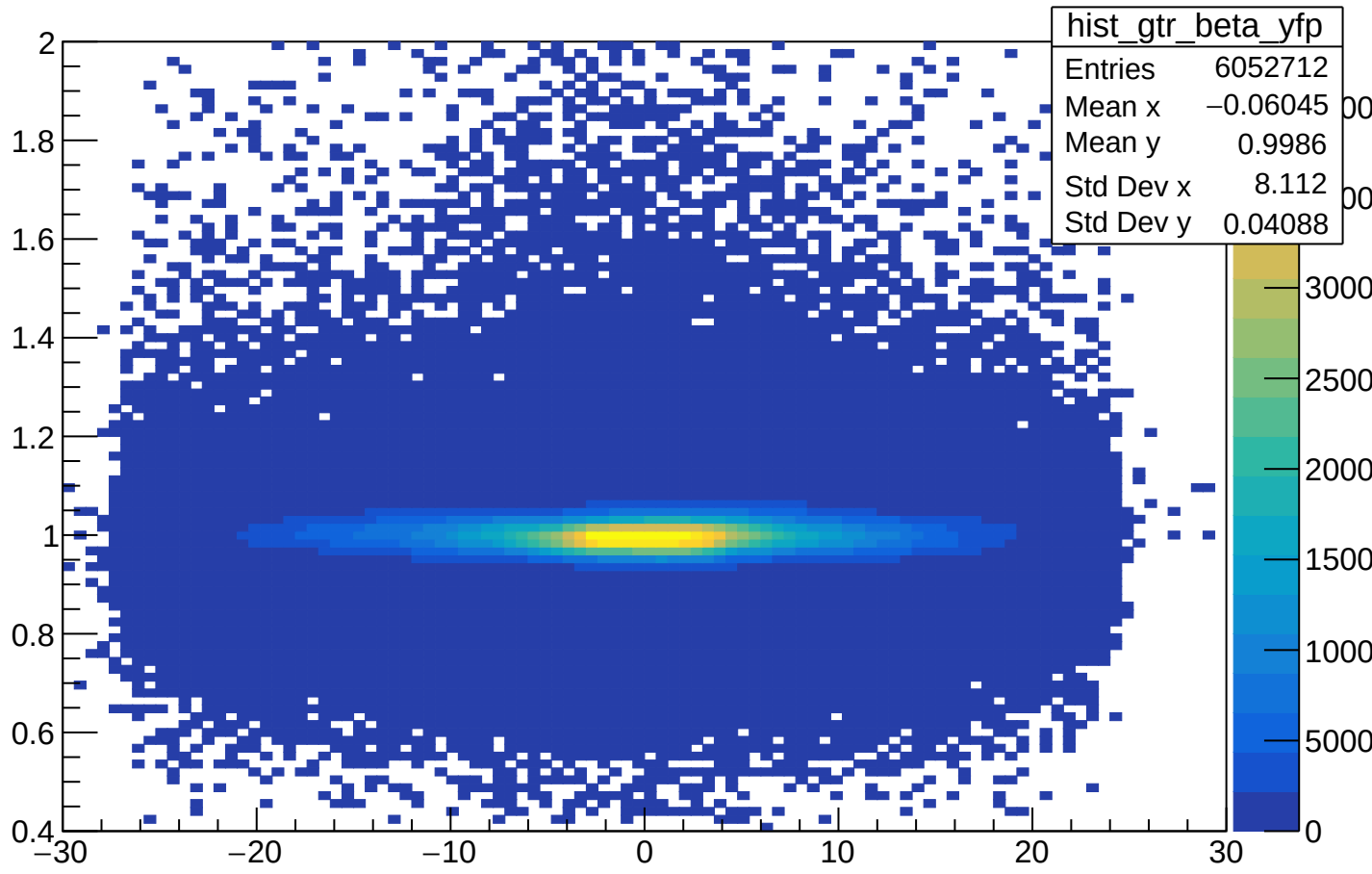

etottracknorm
hist_etottracknorm
Entries 6052712
Mean 0.7689
Std Dev 0.36
x = 0.7
10^6
10^5
10^4
10^3
10^2
10
1
0
1
2
3
4
5
6
7
8

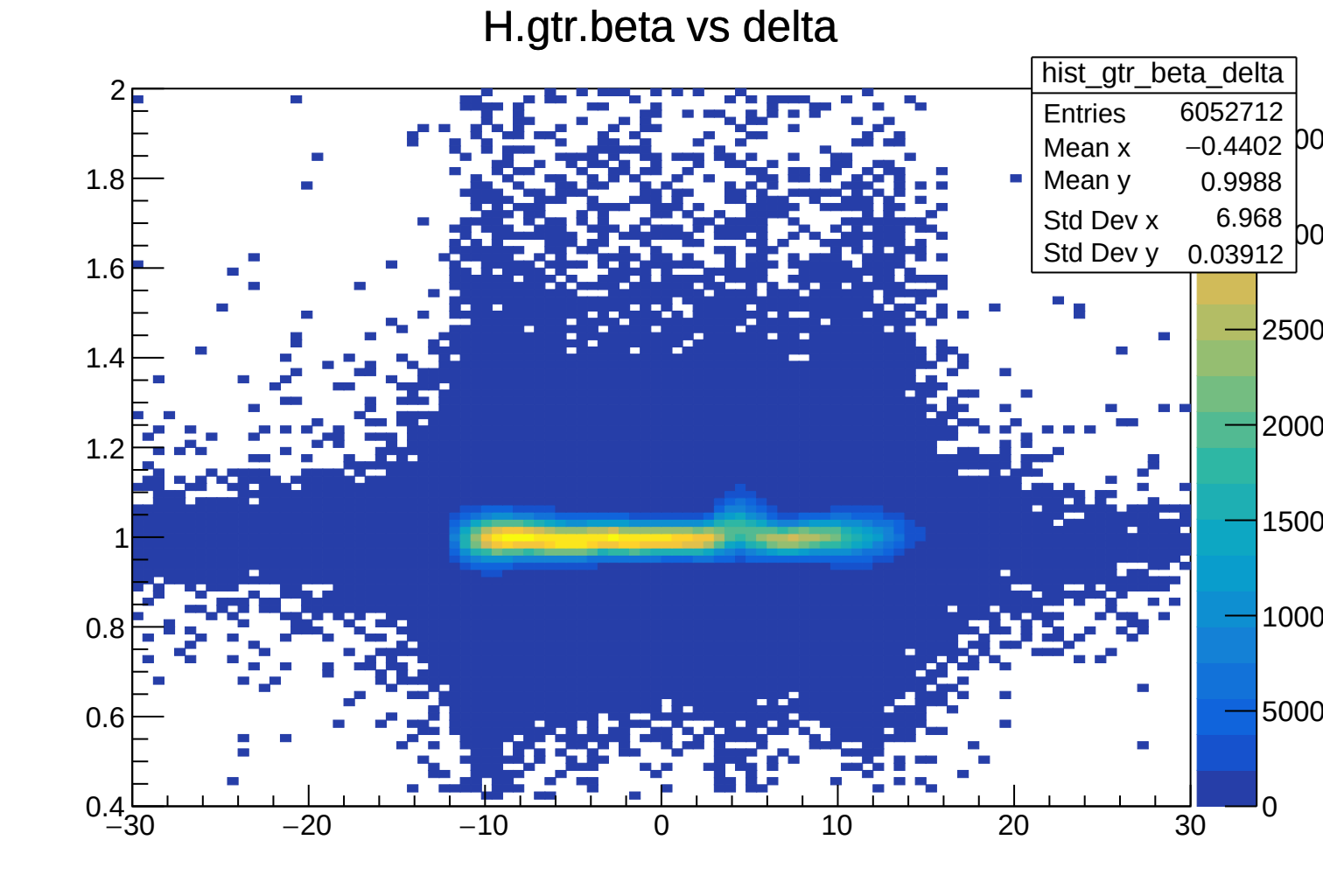

npeSum
x = 0.7
hist_npeSum
Entries 6052712
Mean 9.757
Std Dev 5.573
10^6
10^5
10^4
10^3
10^2
10
0
10
20
30
40
50
60
70

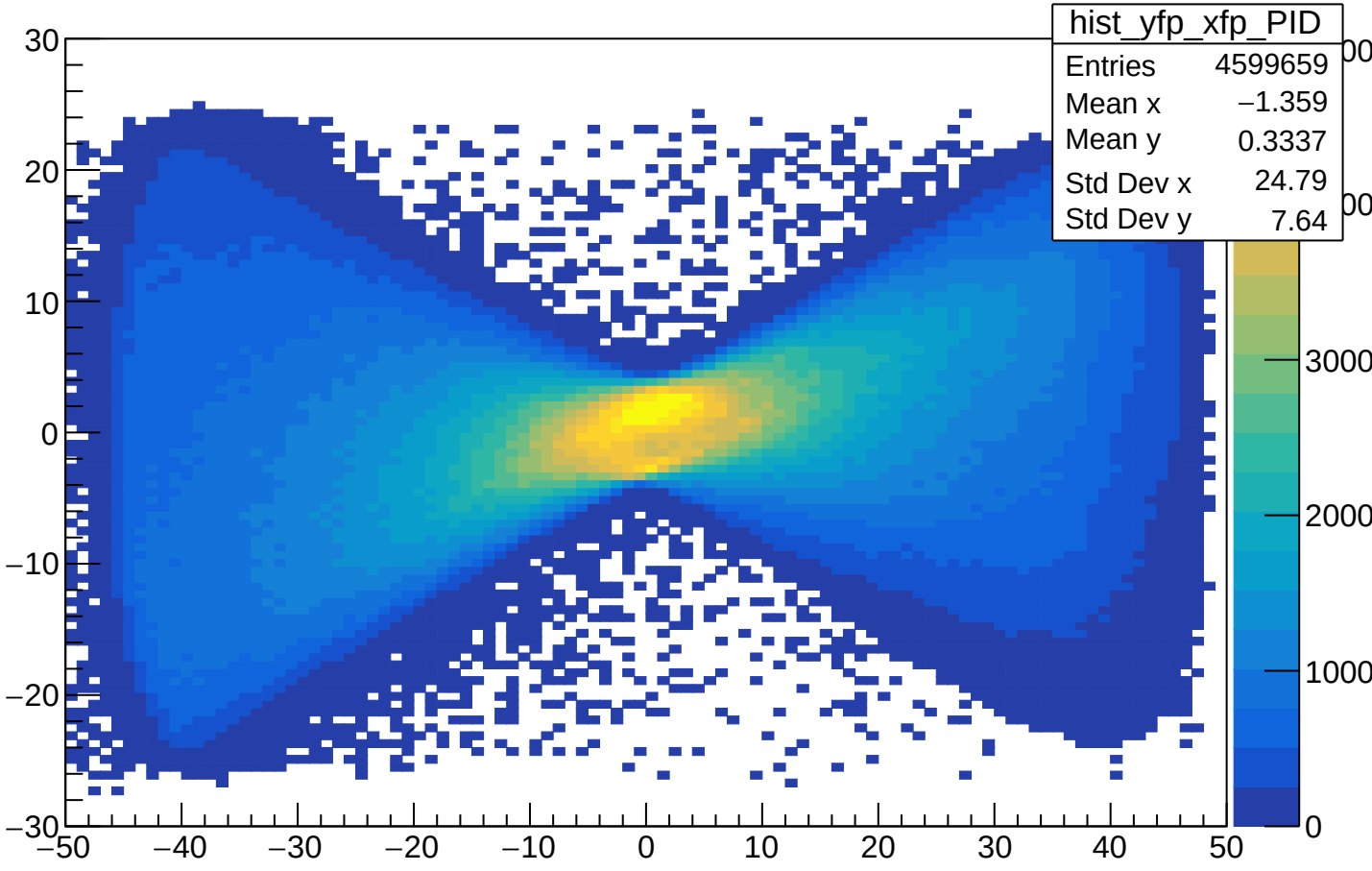

delta
hist_delta
Entries 6052712
Mean −0.4543
Std Dev 6.976
x = -8
x = 8
10^5
10^4
10^3
10^2
−30
−20
−10
0
10
20
30

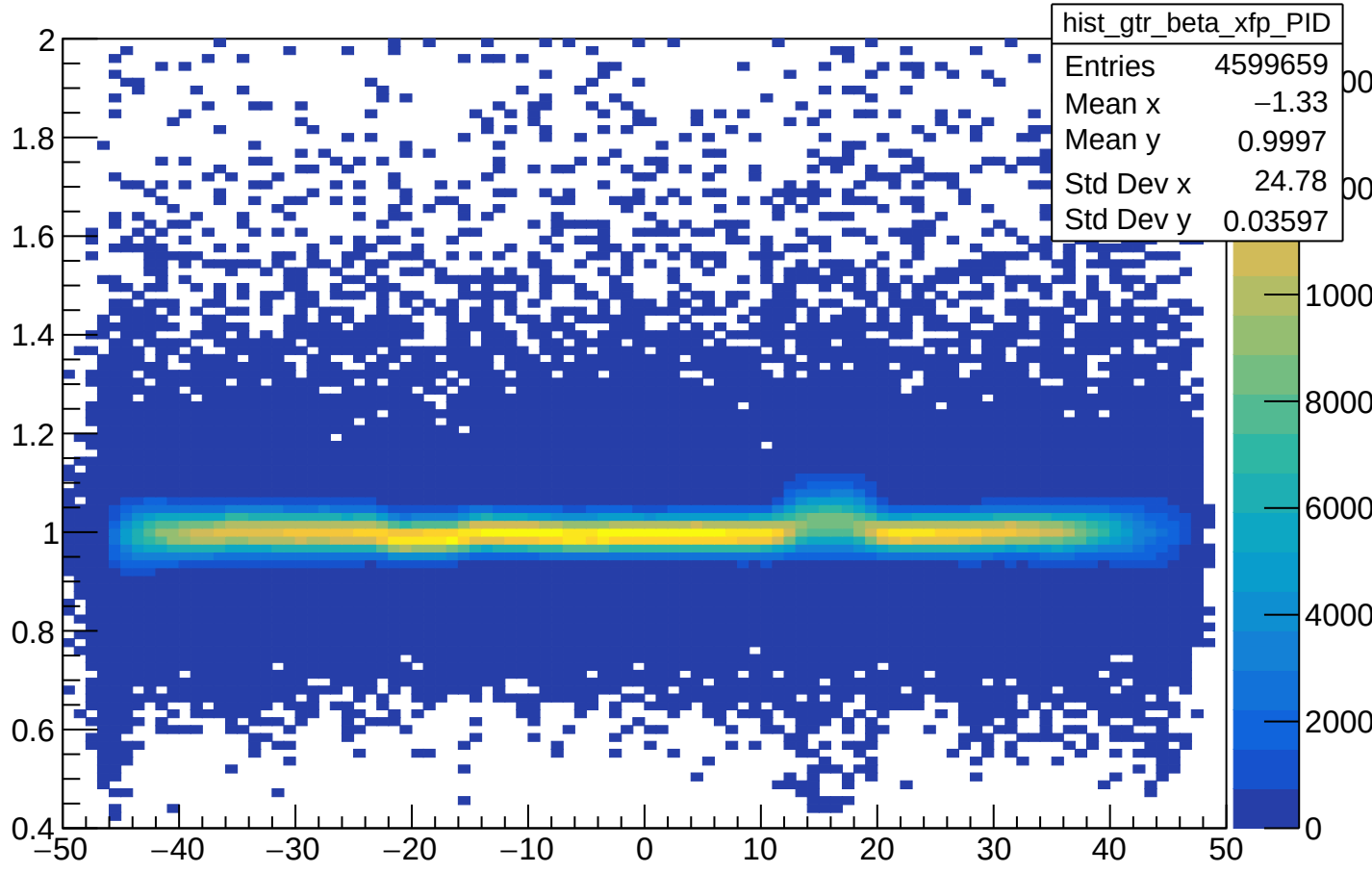

focal plane
hist_yfp_xfp
Entries 6052712
Mean x −3.177
Mean y −0.07088
Std Dev x 25.3
Std Dev y 8.159
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
4000
3000
2000
1000
0

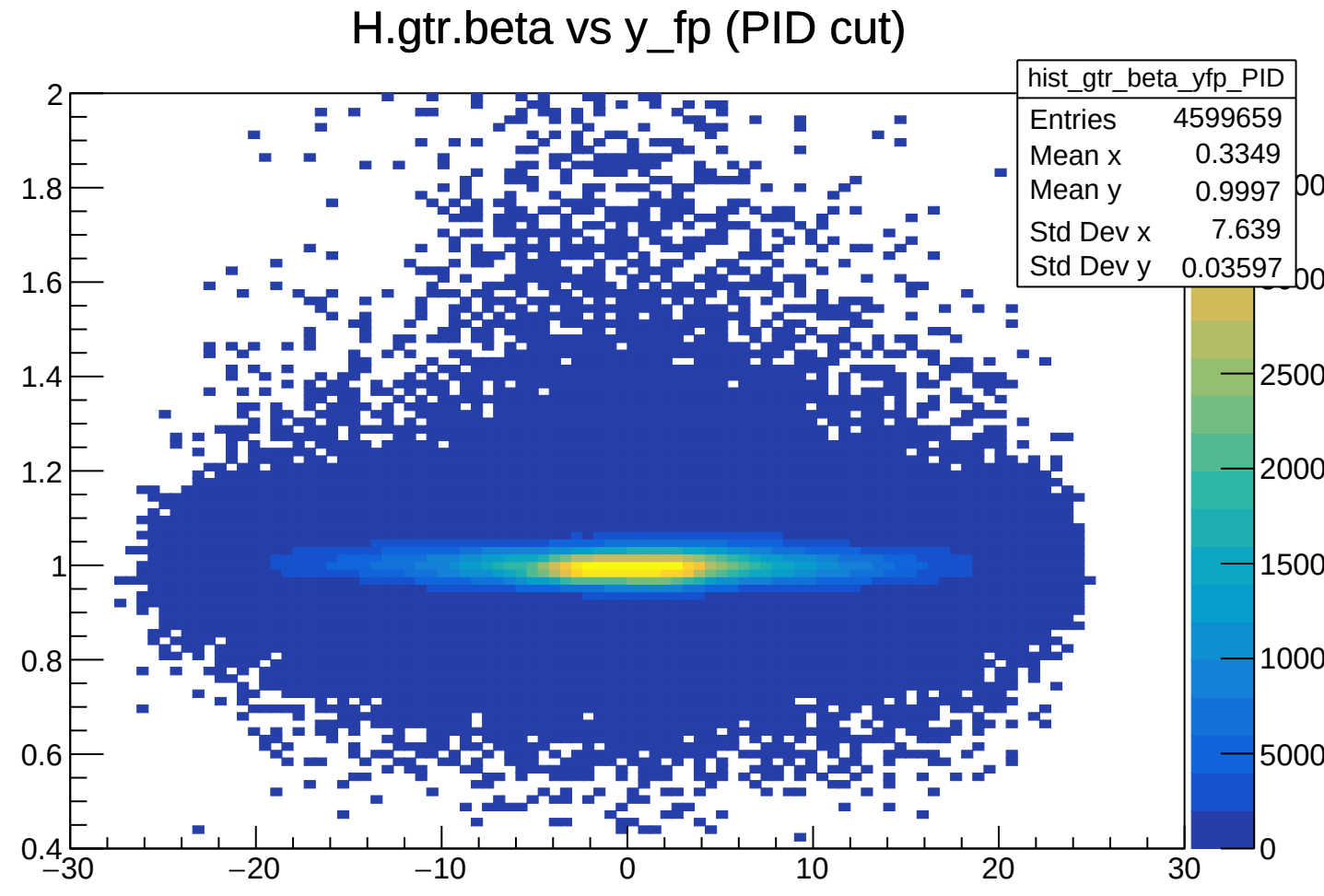

H.gtr.beta vs x_fp
hist_gtr_beta_xfp
Entries 6052712
Mean x −3.04
Mean y 0.9986
Std Dev x 25.25
Std Dev y 0.04063
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−50
−40
−30
−20
−10
0
10
20
30
40
50
1200
1000
8000
6000
4000
2000
0

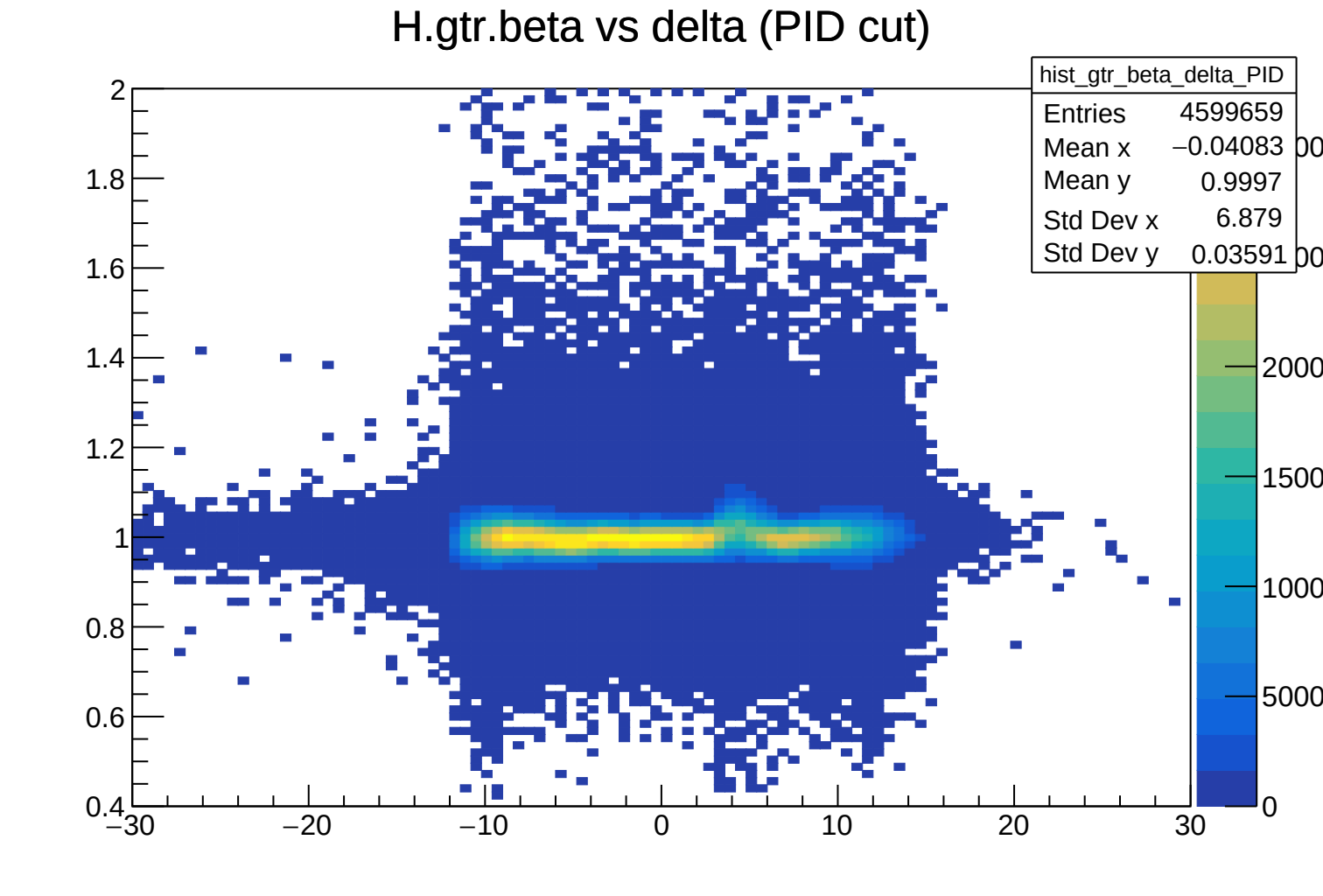

H.gtr.beta vs y_fp
hist_gtr_beta_yfp
Entries 6052712
Mean x −0.06045
Mean y 0.9986
Std Dev x 8.112
Std Dev y 0.04088
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
3000
2500
2000
1500
1000
5000
0

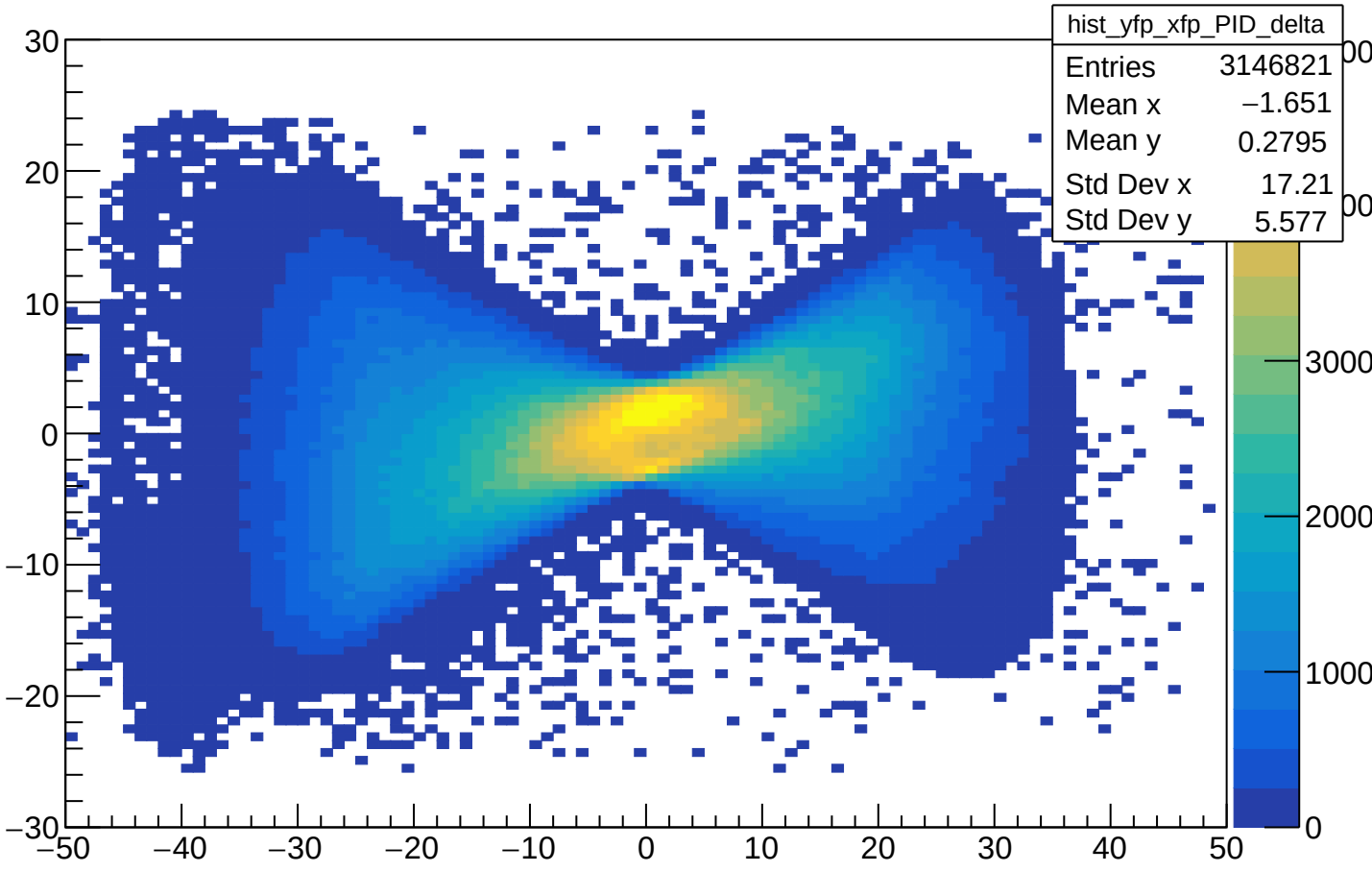

H.gtr.beta vs delta
hist_gtr_beta_delta
Entries 6052712
Mean x −0.4402
Mean y 0.9988
Std Dev x 6.968
Std Dev y 0.03912
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
2500
2000
1500
1000
5000
0

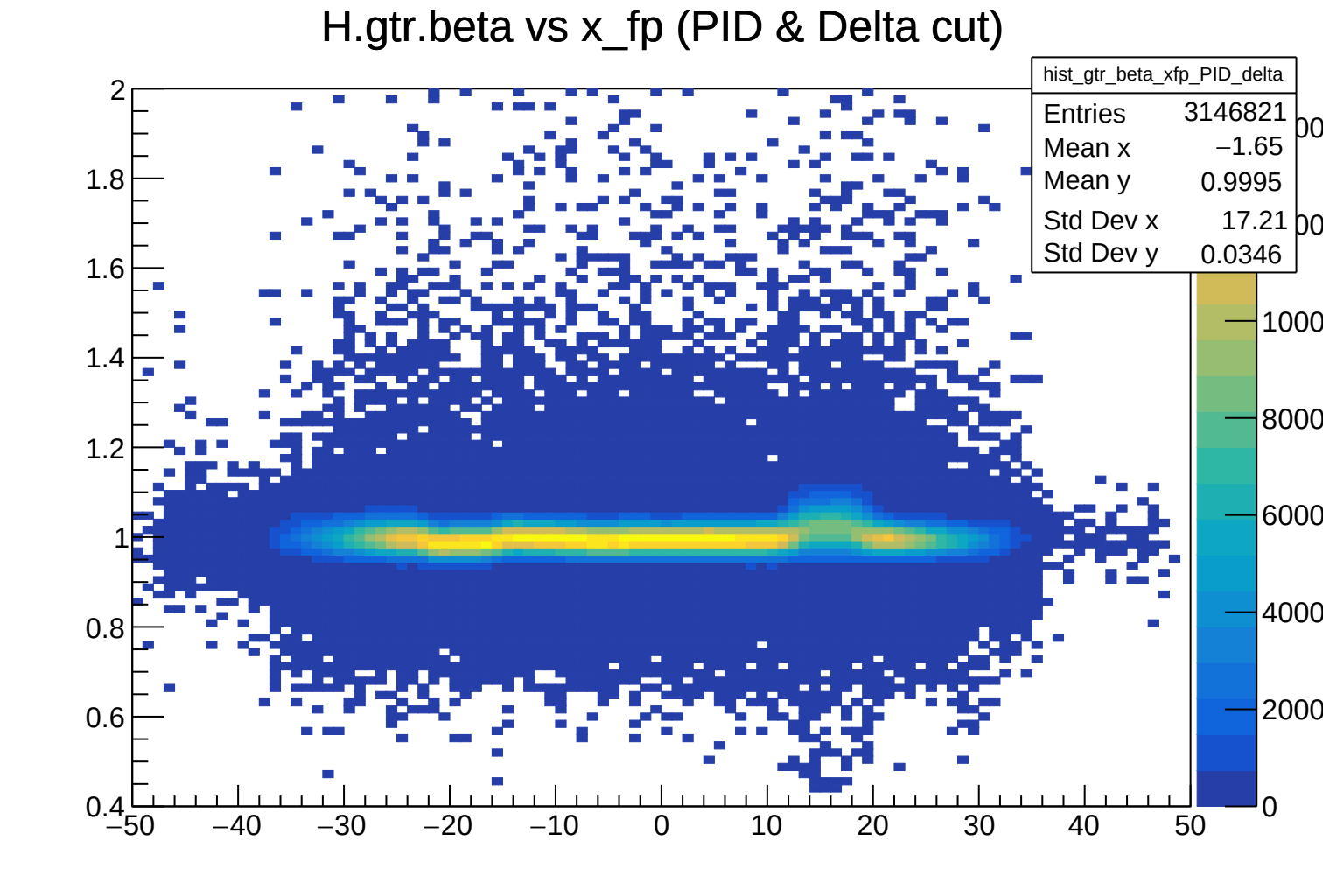

focal plane (PID cut)
hist_yfp_xfp_PID
Entries 4599659
Mean x −1.359
Mean y 0.3337
Std Dev x 24.79
Std Dev y 7.64
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
3000
2000
1000
0

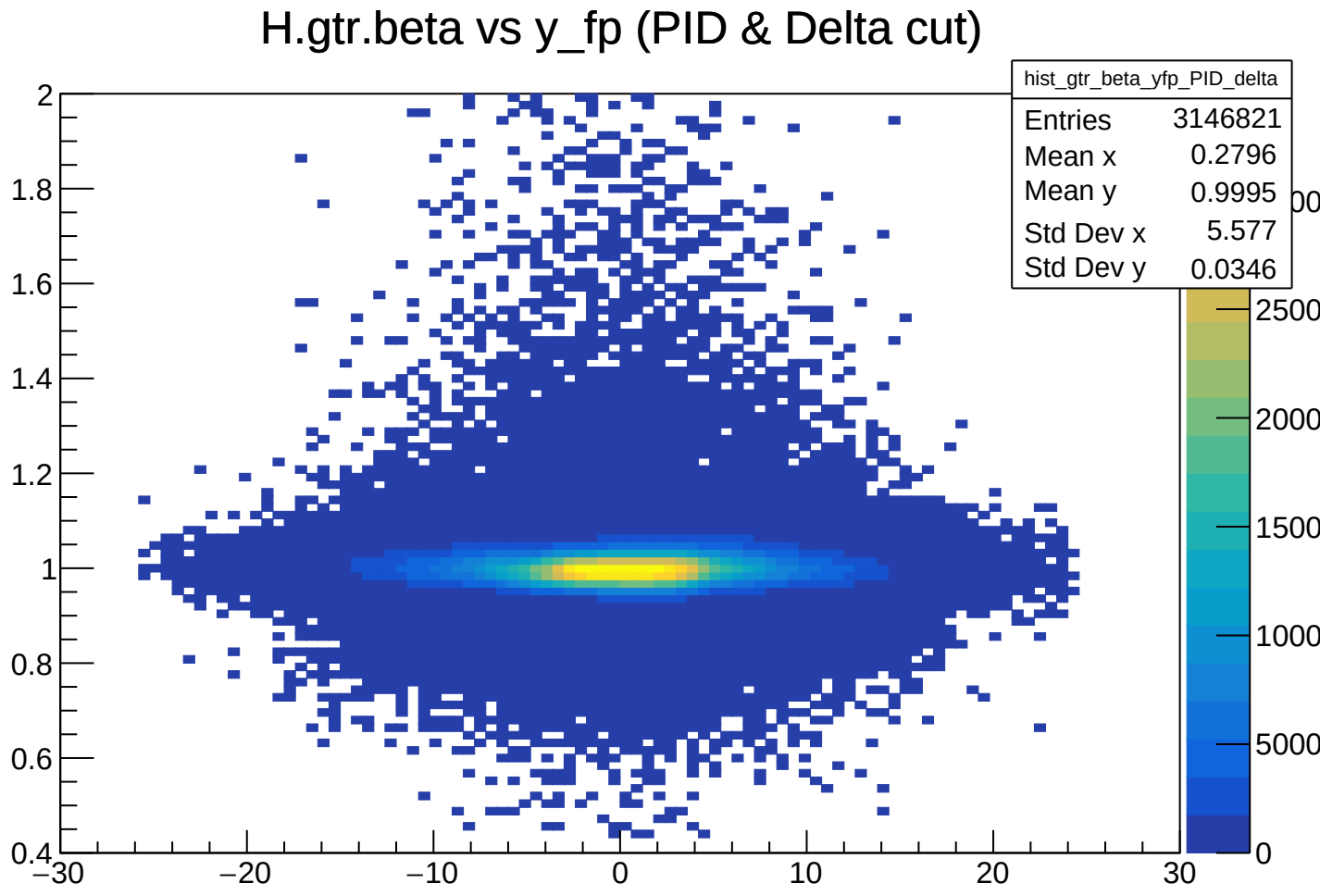

H.gtr.beta vs x_fp (PID cut)
hist_gtr_beta_xfp_PID
Entries 4599659
Mean x −1.33
Mean y 0.9997
Std Dev x 24.78
Std Dev y 0.03597
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−50
−40
−30
−20
−10
0
10
20
30
40
50
1000
8000
6000
4000
2000
0

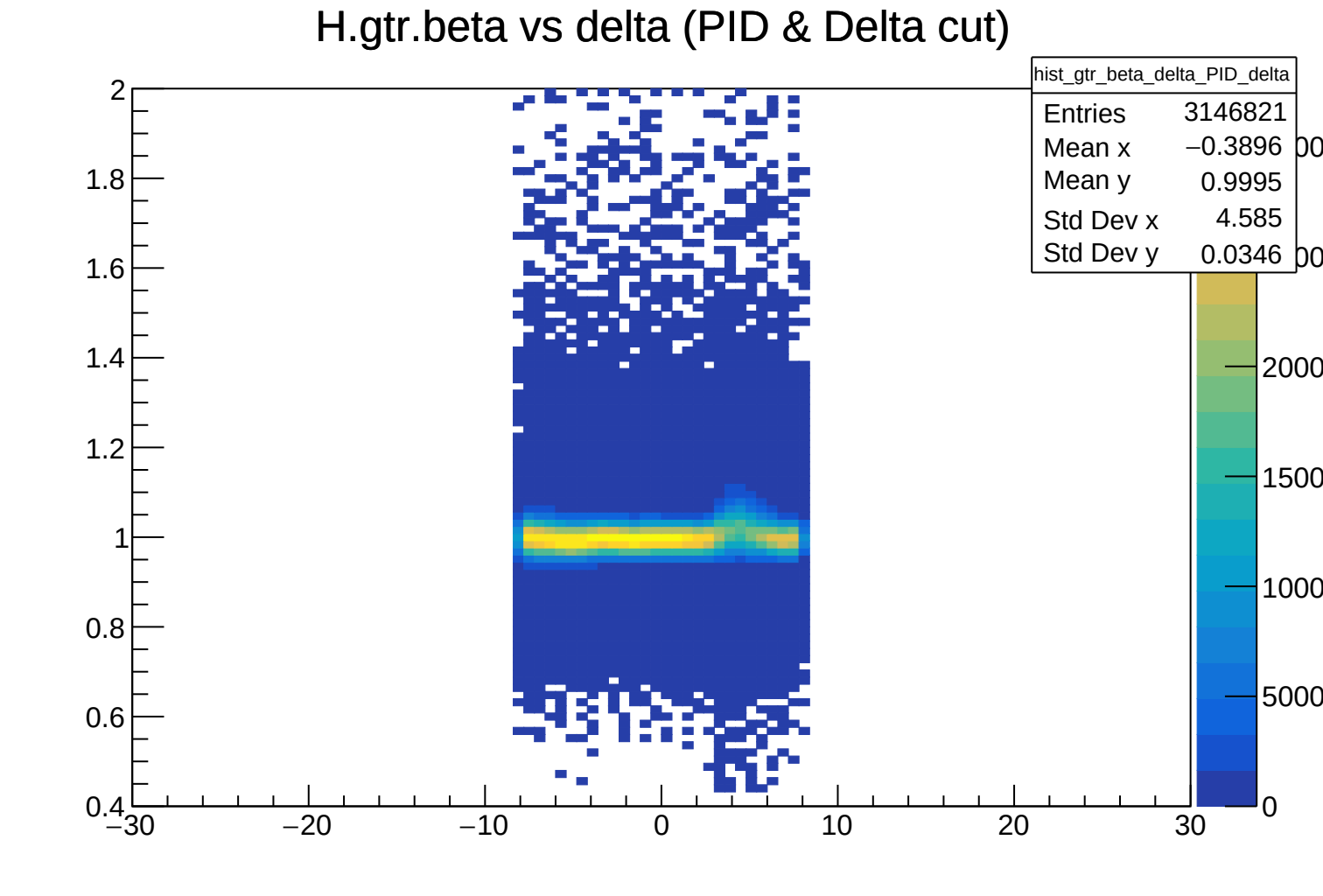

H.gtr.beta vs y_fp (PID cut)
hist_gtr_beta_yfp_PID
Entries 4599659
Mean x 0.3349
Mean y 0.9997
Std Dev x 7.639
Std Dev y 0.03597
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
2500
2000
1500
1000
5000
0


H.gtr.beta vs delta (PID cut)
hist_gtr_beta_delta_PID
Entries 4599659
Mean x −0.04083
Mean y 0.9997
Std Dev x 6.879
Std Dev y 0.03591
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 3146821
Mean x −1.651
Mean y 0.2795
Std Dev x 17.21
Std Dev y 5.577
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 3146821
Mean x −1.65
Mean y 0.9995
Std Dev x 17.21
Std Dev y 0.0346
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 3146821
Mean x 0.2796
Mean y 0.9995
Std Dev x 5.577
Std Dev y 0.0346
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 3146821
Mean x −0.3896
Mean y 0.9995
Std Dev x 4.585
Std Dev y 0.0346
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