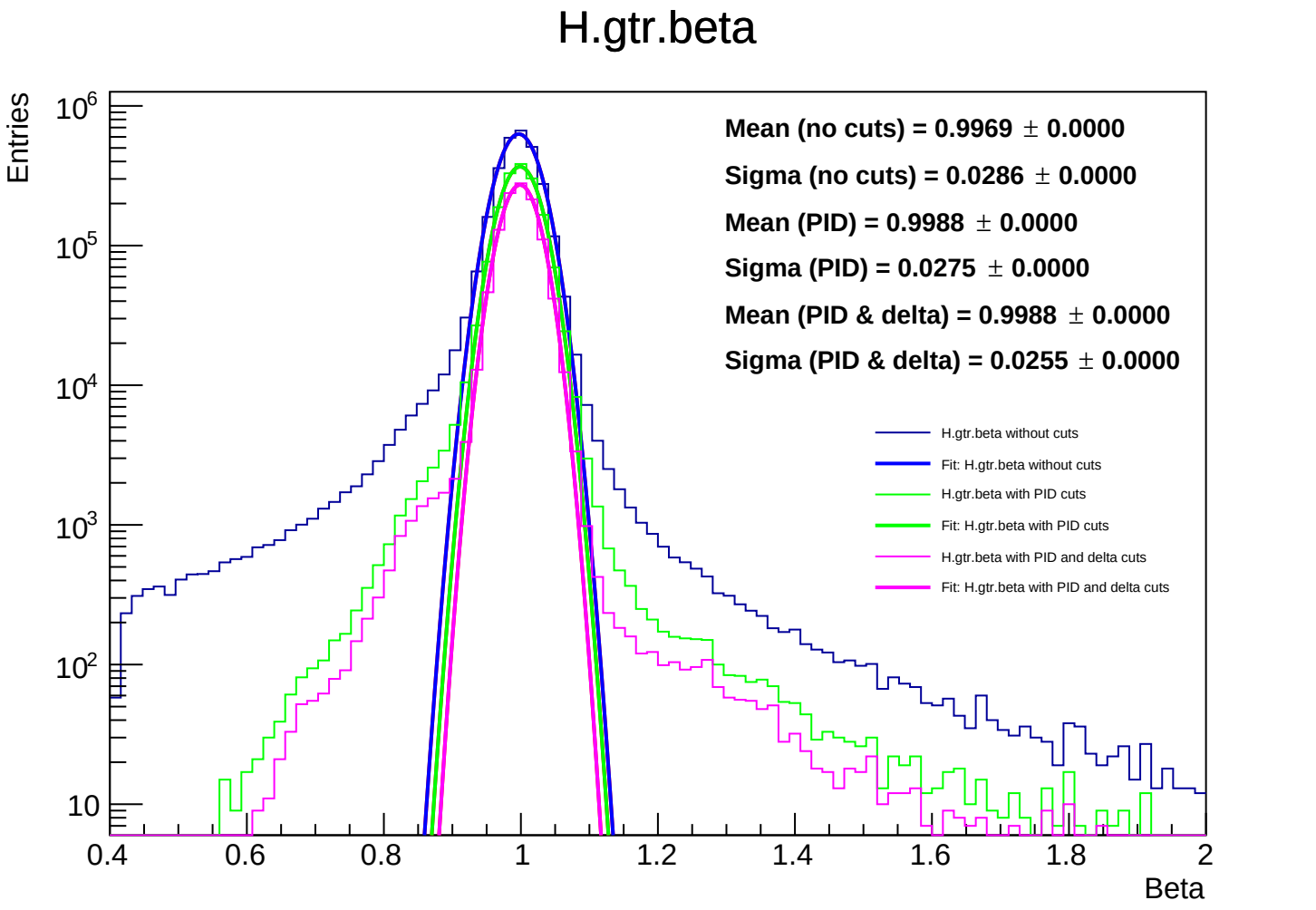
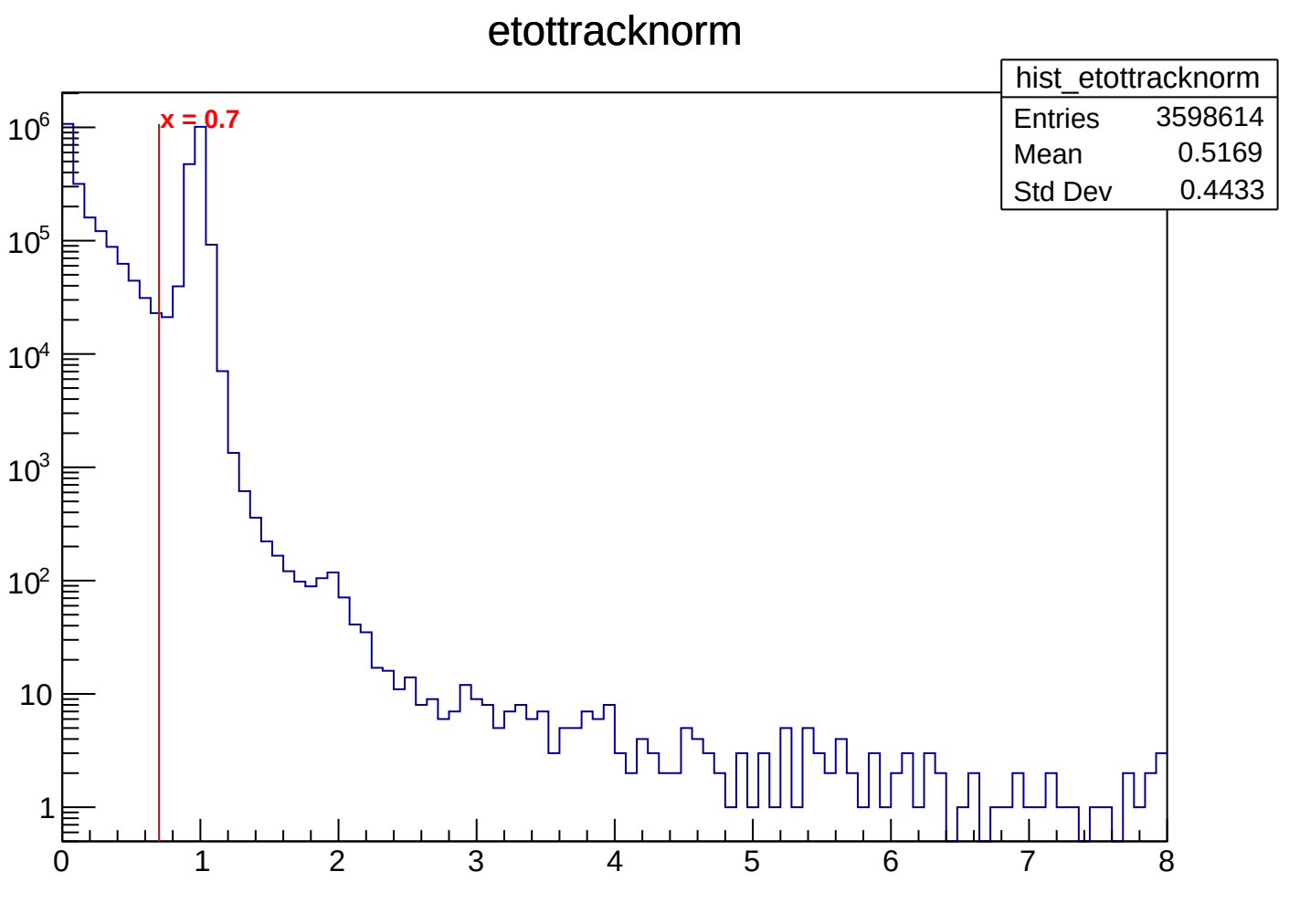
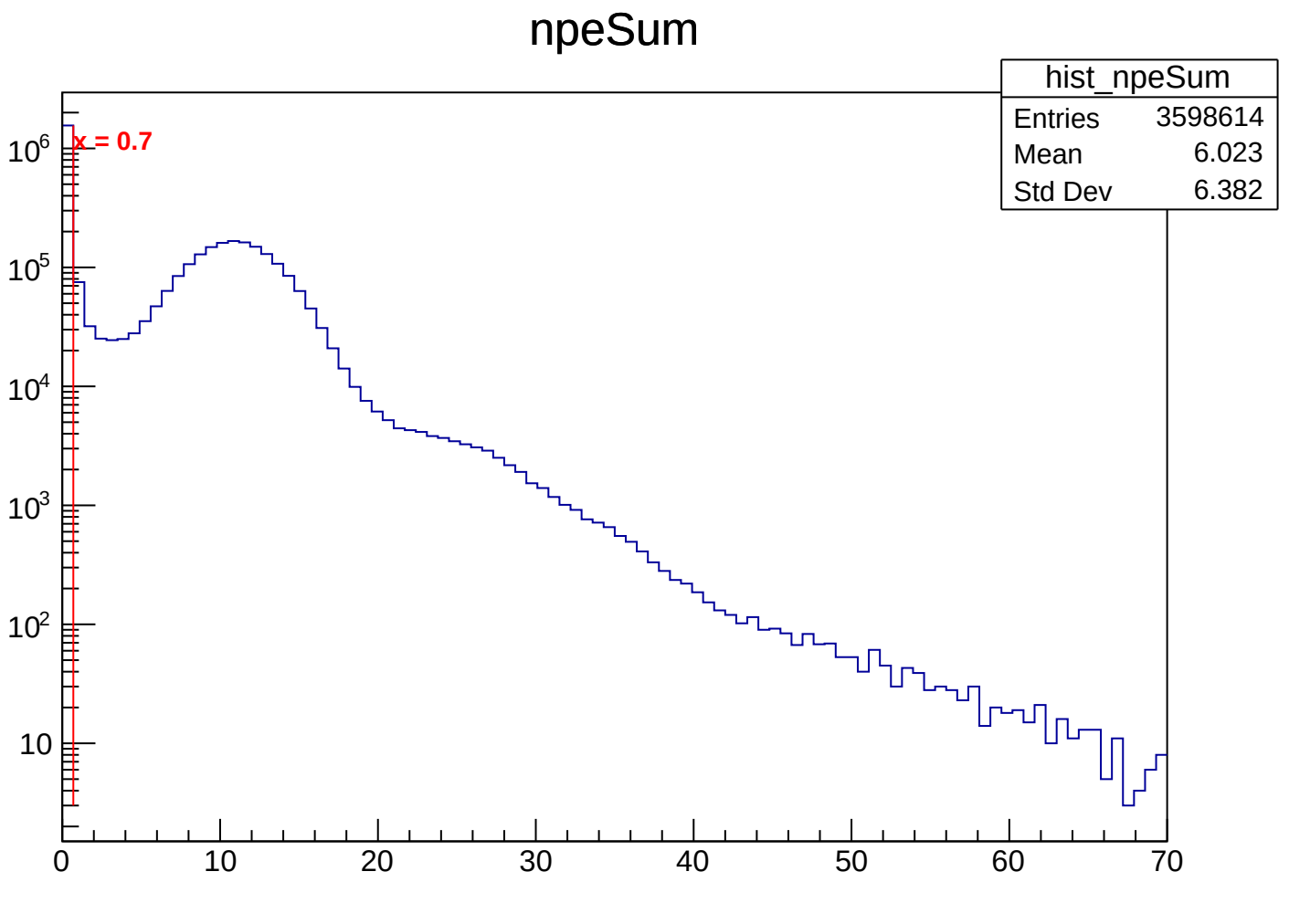
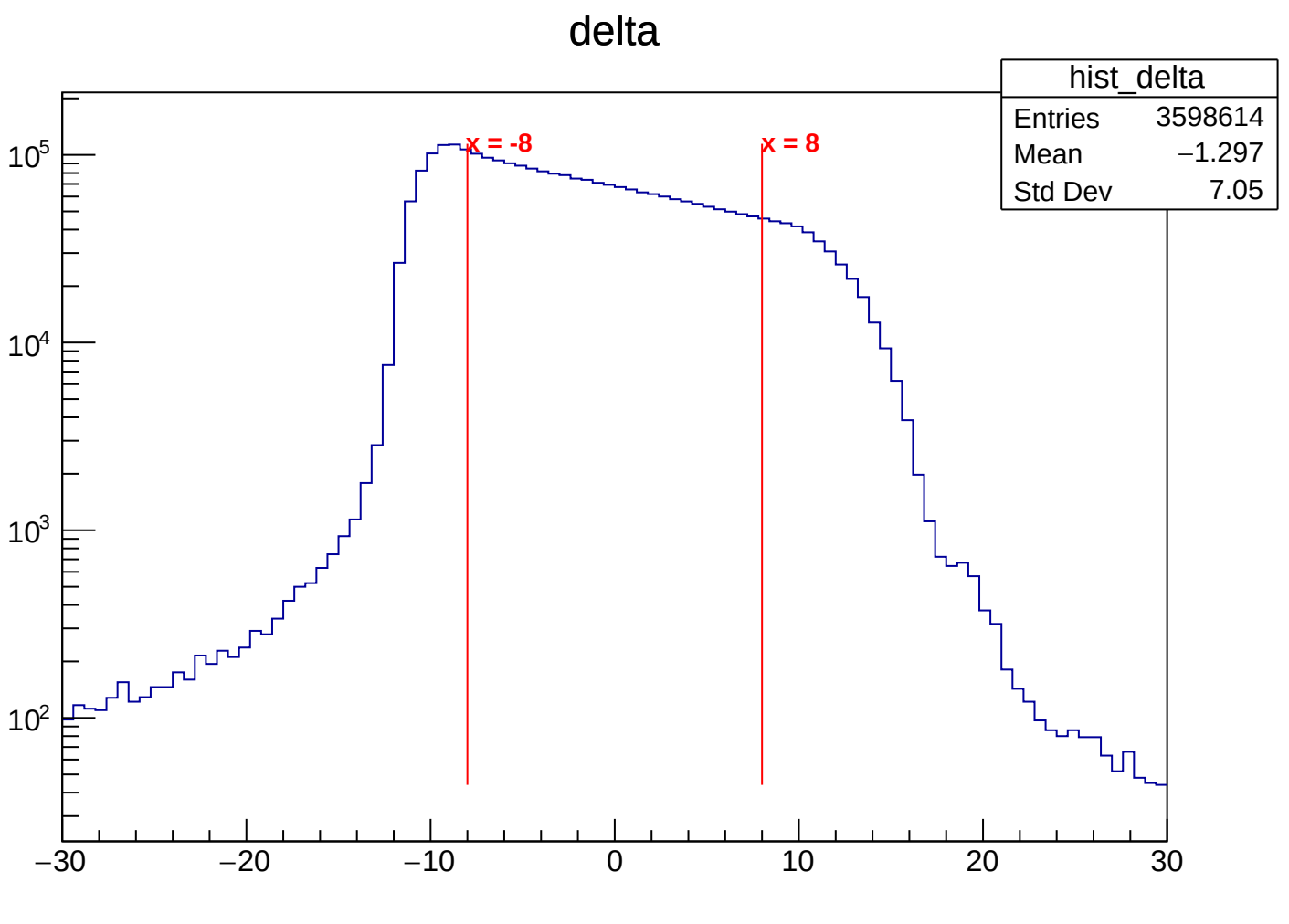
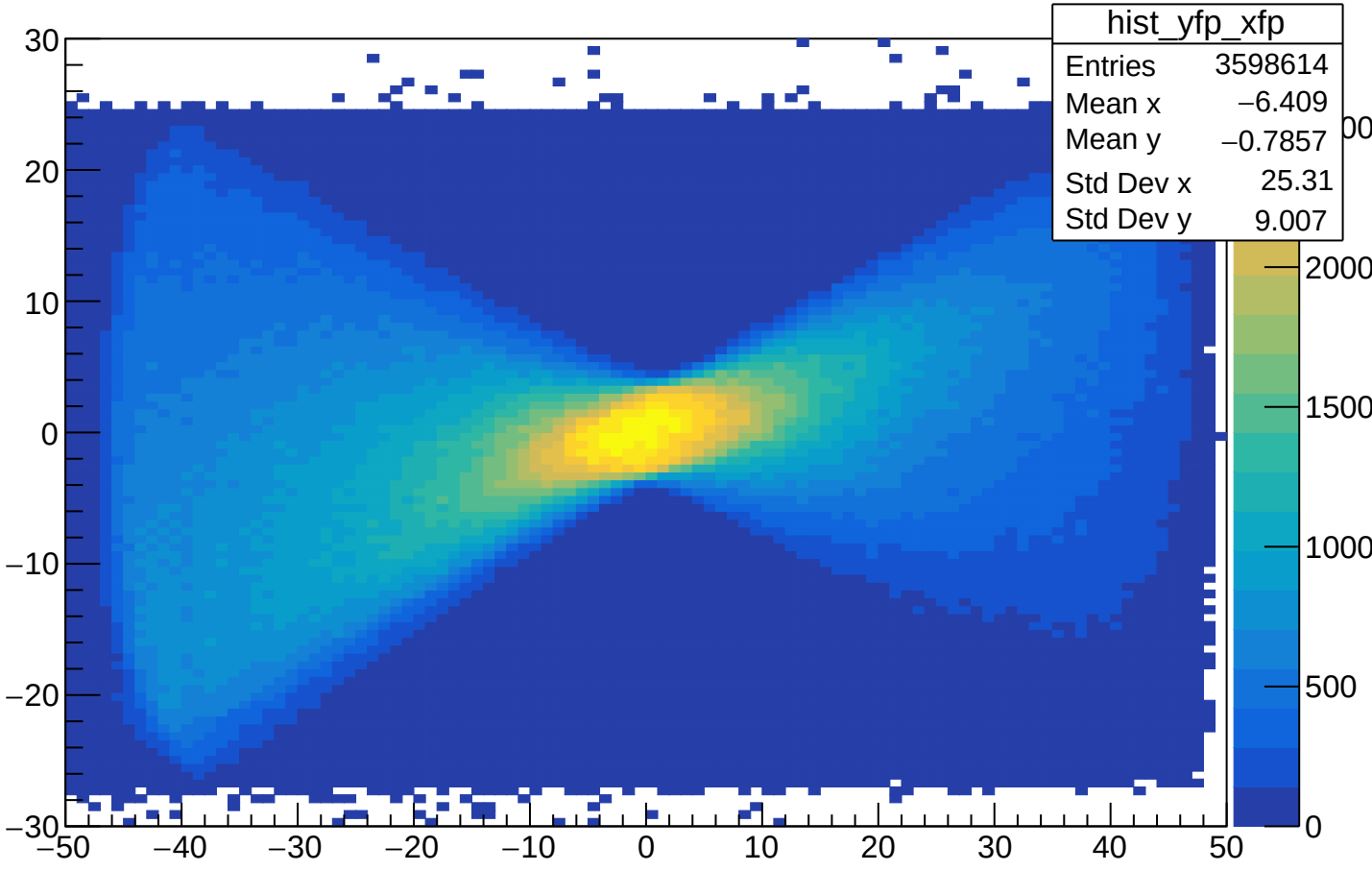
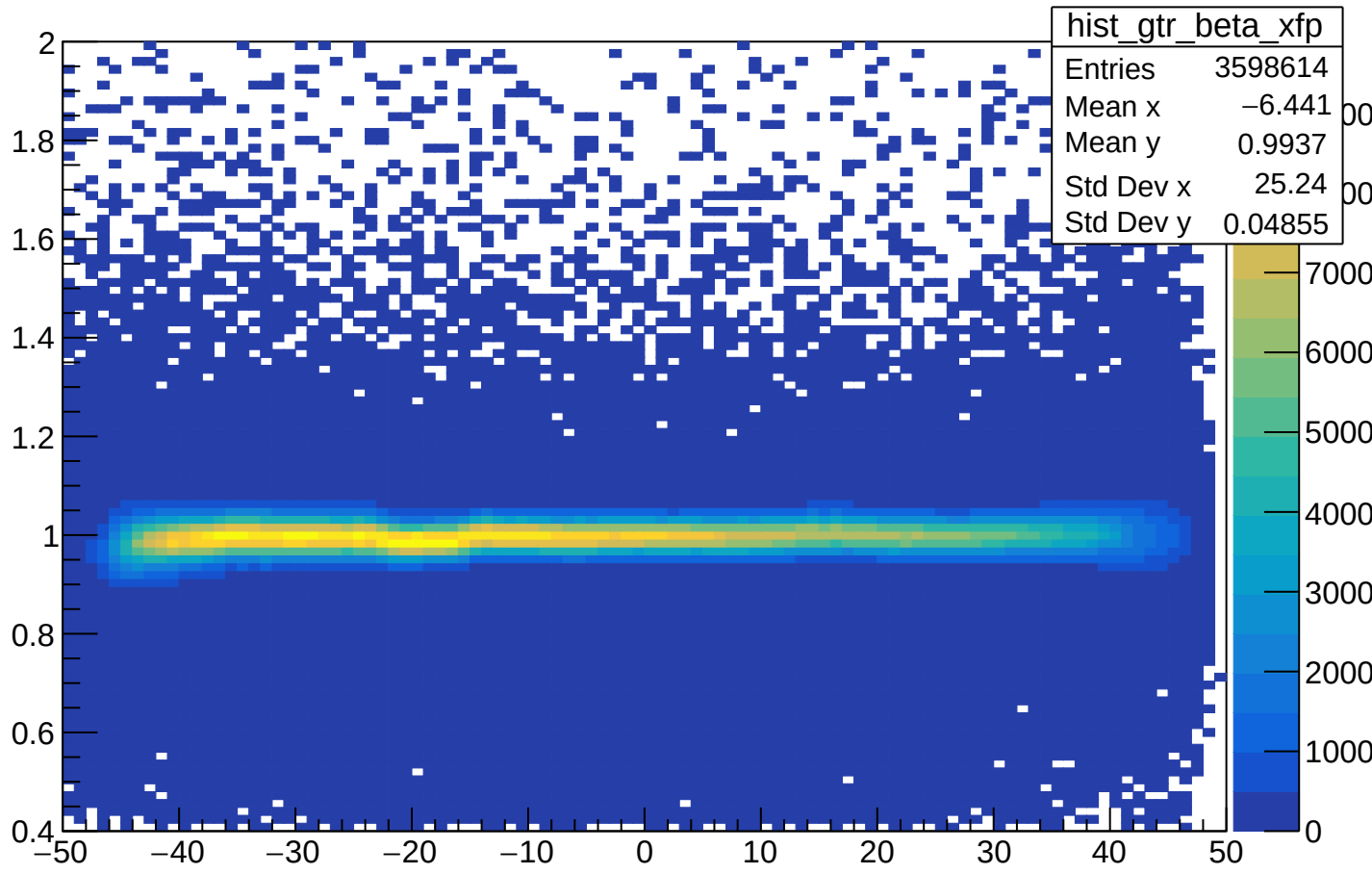

H.gtr.beta
Entries
Beta
Mean (no cuts) = 0.9969 ± 0.0000
Sigma (no cuts) = 0.0286 ± 0.0000
Mean (PID) = 0.9988 ± 0.0000
Sigma (PID) = 0.0275 ± 0.0000
Mean (PID & delta) = 0.9988 ± 0.0000
Sigma (PID & delta) = 0.0255 ± 0.0000
H.gtr.beta without cuts
Fit: H.gtr.beta without cuts
H.gtr.beta with PID cuts
Fit: H.gtr.beta with PID cuts
H.gtr.beta with PID and delta cuts
Fit: H.gtr.beta with PID and delta cuts

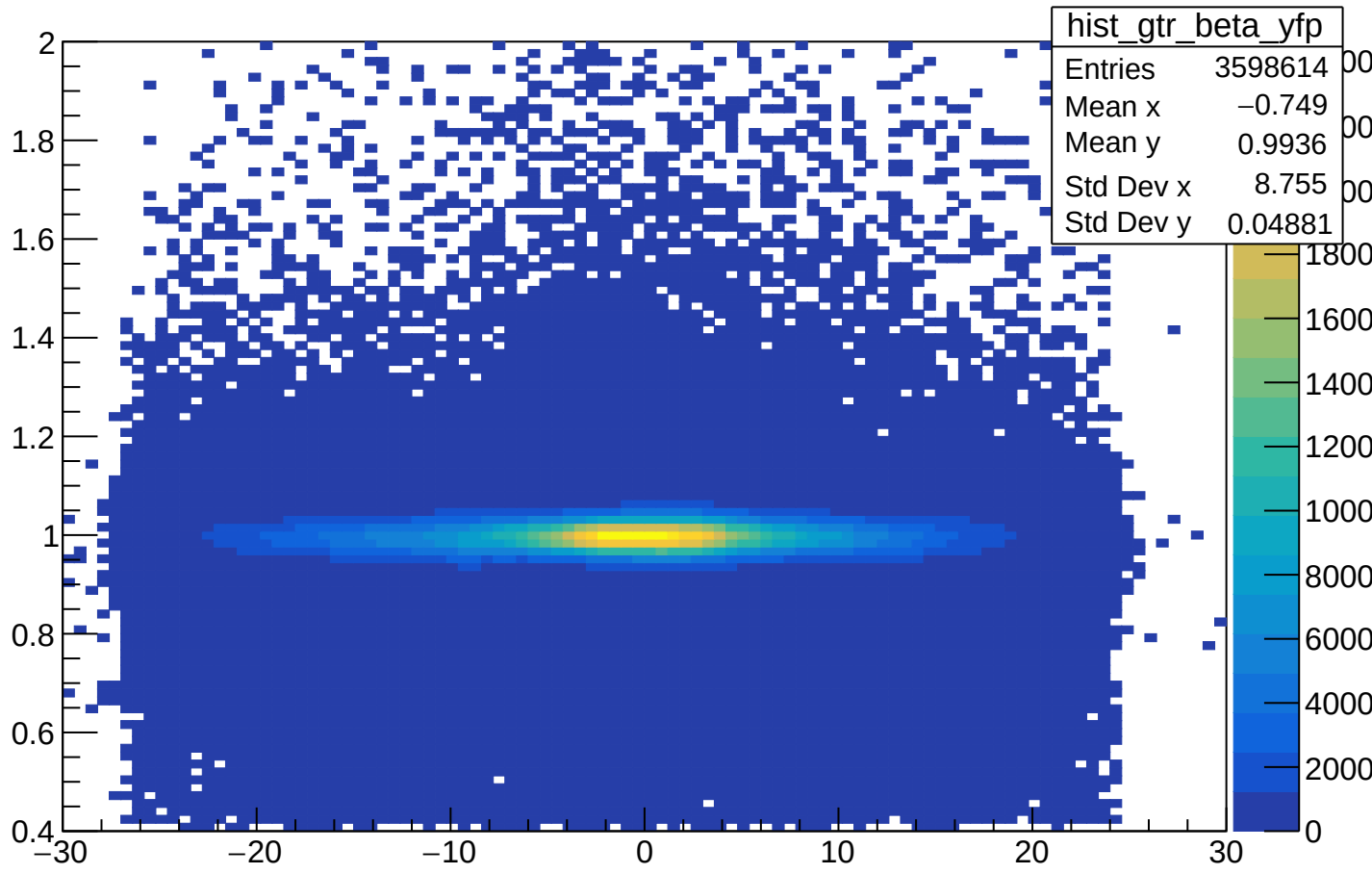

etottracknorm
hist_etottracknorm
Entries 3598614
Mean 0.5169
Std Dev 0.4433
x = 0.7
10^6
10^5
10^4
10^3
10^2
10
1
0
1
2
3
4
5
6
7
8

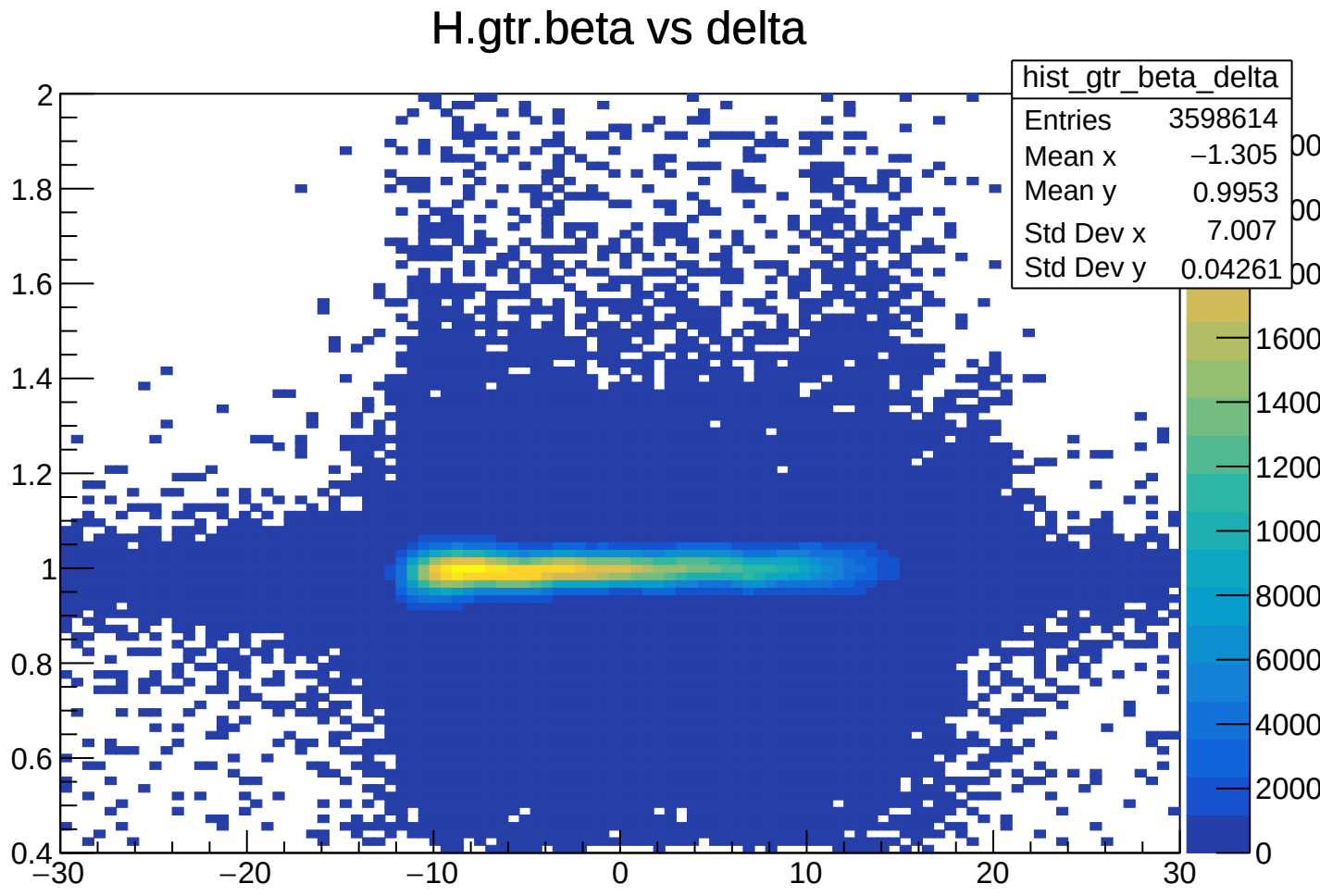

npeSum
hist_npeSum
Entries 3598614
Mean 6.023
Std Dev 6.382
x = 0.7
10^6
10^5
10^4
10^3
10^2
10
0
10
20
30
40
50
60
70

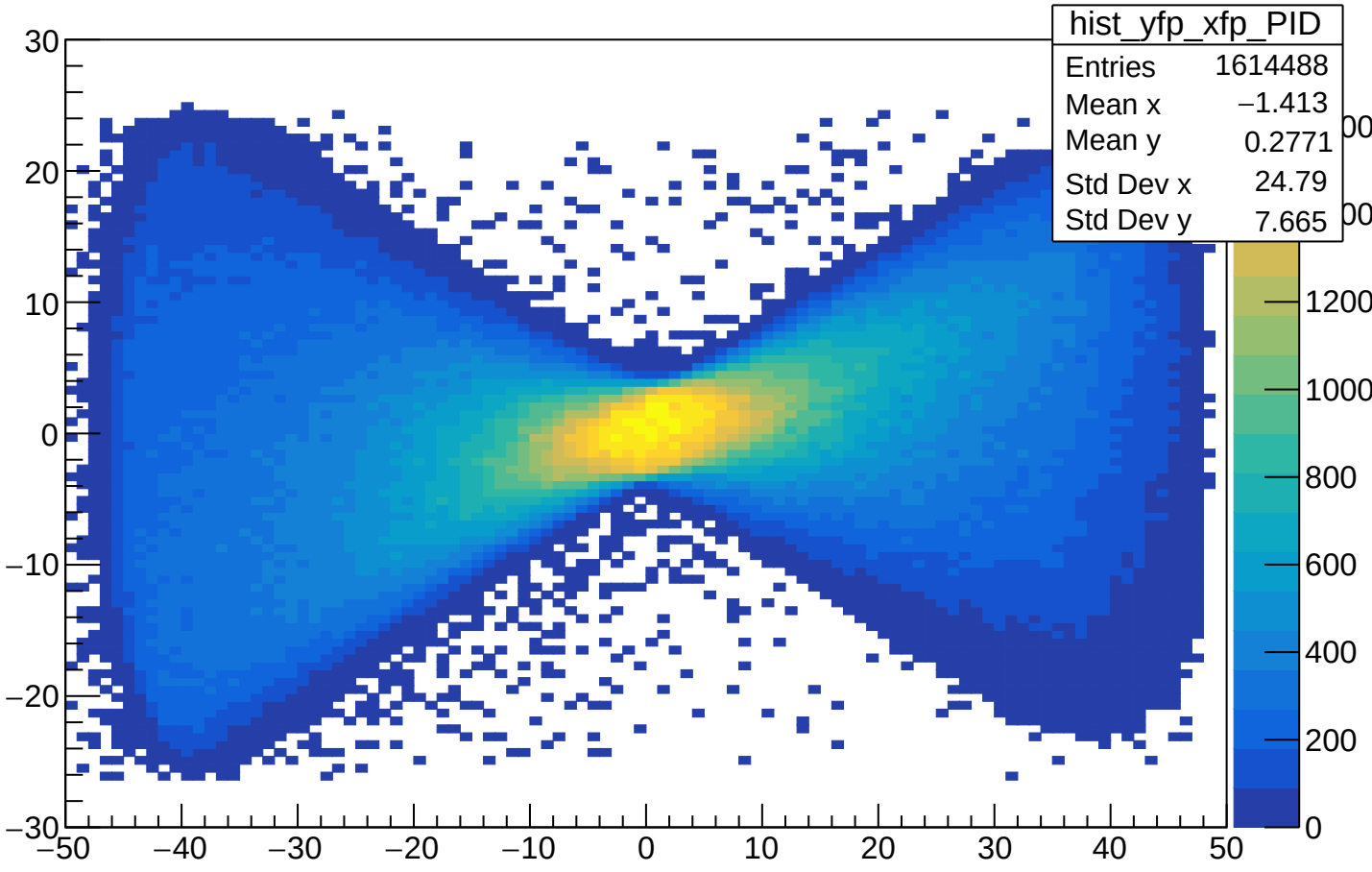

delta
hist_delta
Entries 3598614
Mean −1.297
Std Dev 7.05
x = -8
x = 8
10^5
10^4
10^3
10^2
−30
−20
−10
0
10
20
30

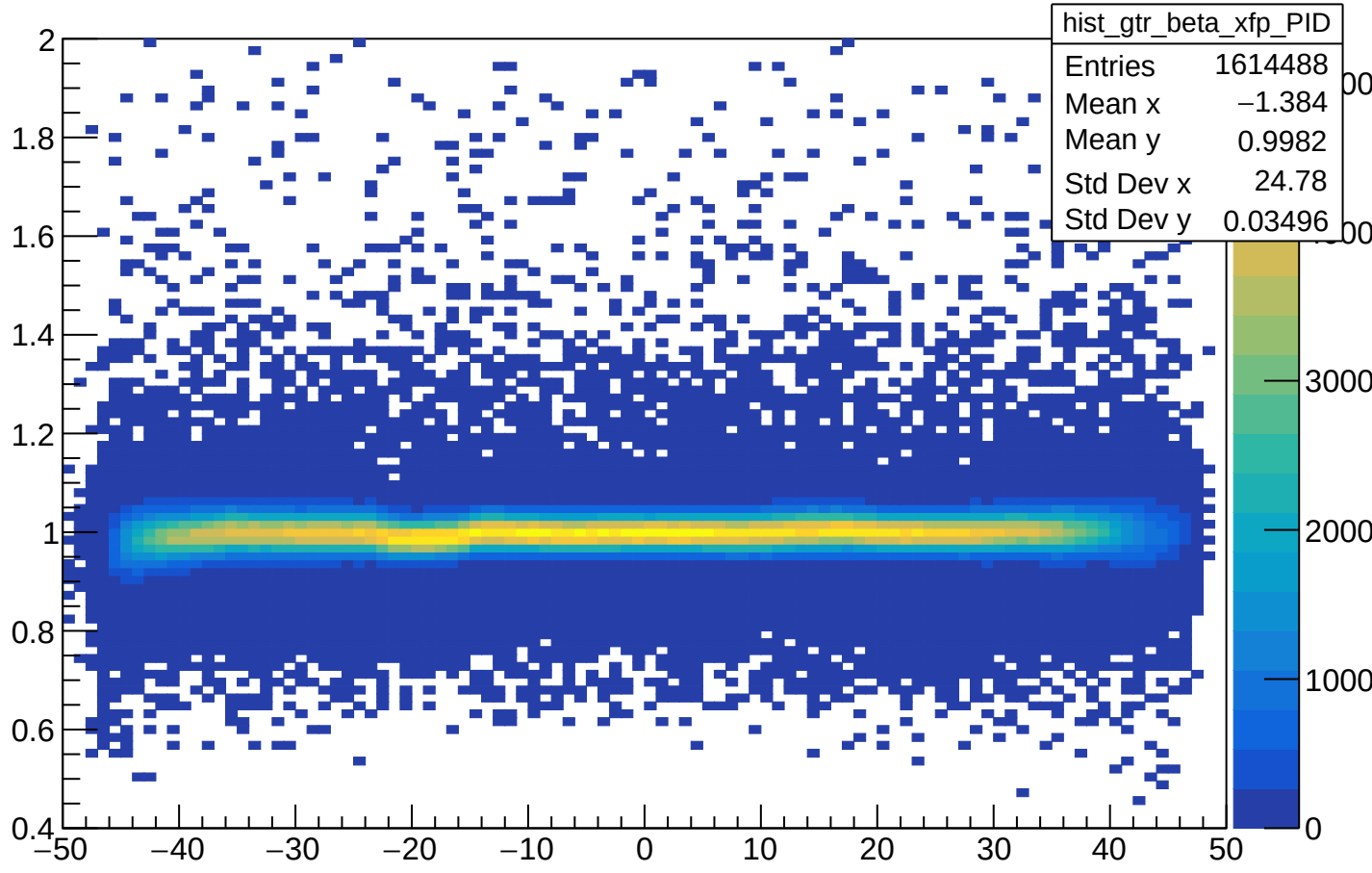

focal plane
hist_yfp_xfp
Entries 3598614
Mean x −6.409
Mean y −0.7857
Std Dev x 25.31
Std Dev y 9.007
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
2000
1500
1000
500
0

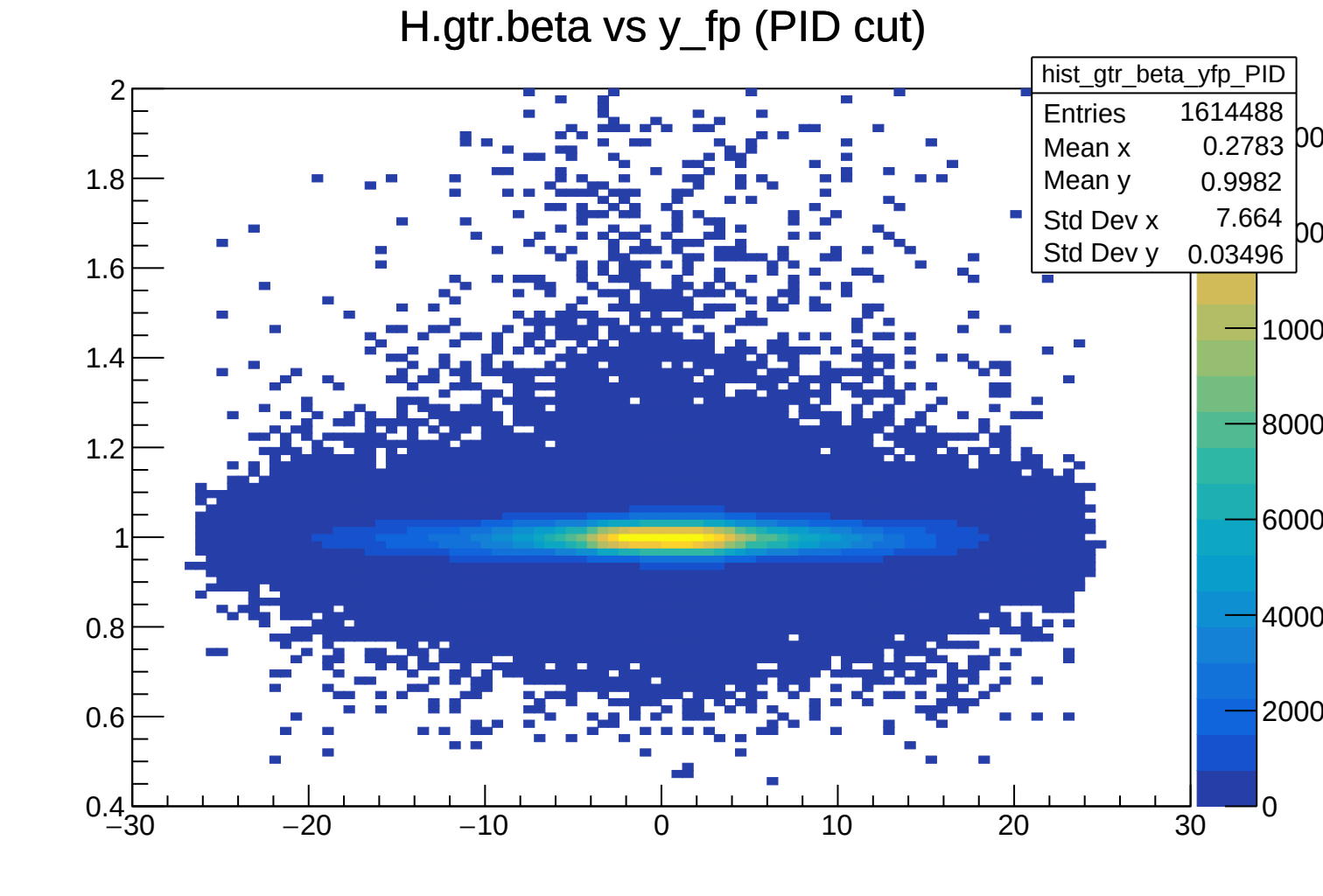

H.gtr.beta vs x_fp
hist_gtr_beta_xfp
Entries 3598614
Mean x −6.441
Mean y 0.9937
Std Dev x 25.24
Std Dev y 0.04855
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−50
−40
−30
−20
−10
0
10
20
30
40
50
7000
6000
5000
4000
3000
2000
1000
0

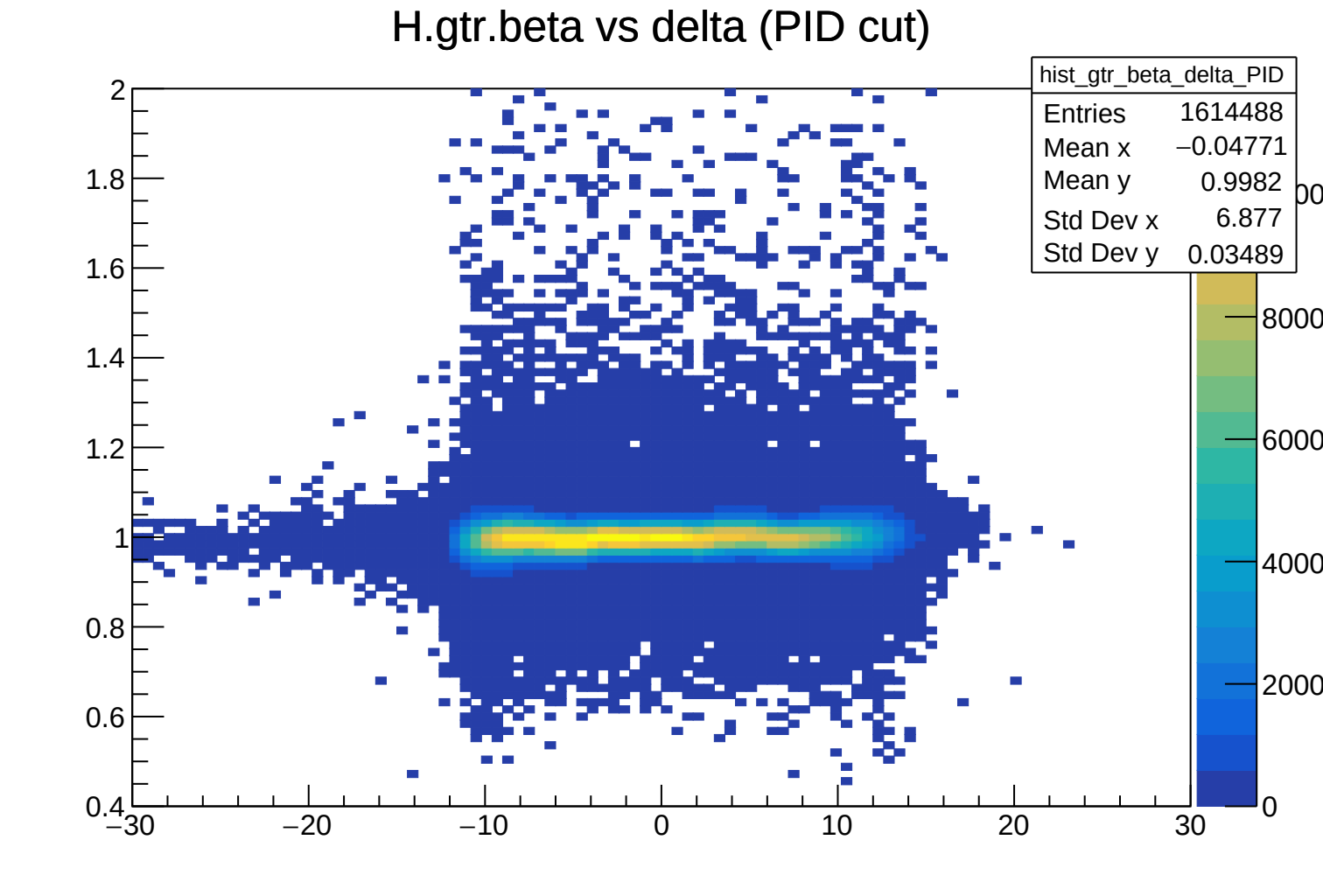

H.gtr.beta vs y_fp
hist_gtr_beta_yfp
Entries 3598614
Mean x −0.749
Mean y 0.9936
Std Dev x 8.755
Std Dev y 0.04881
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
1800
1600
1400
1200
1000
8000
6000
4000
2000
0

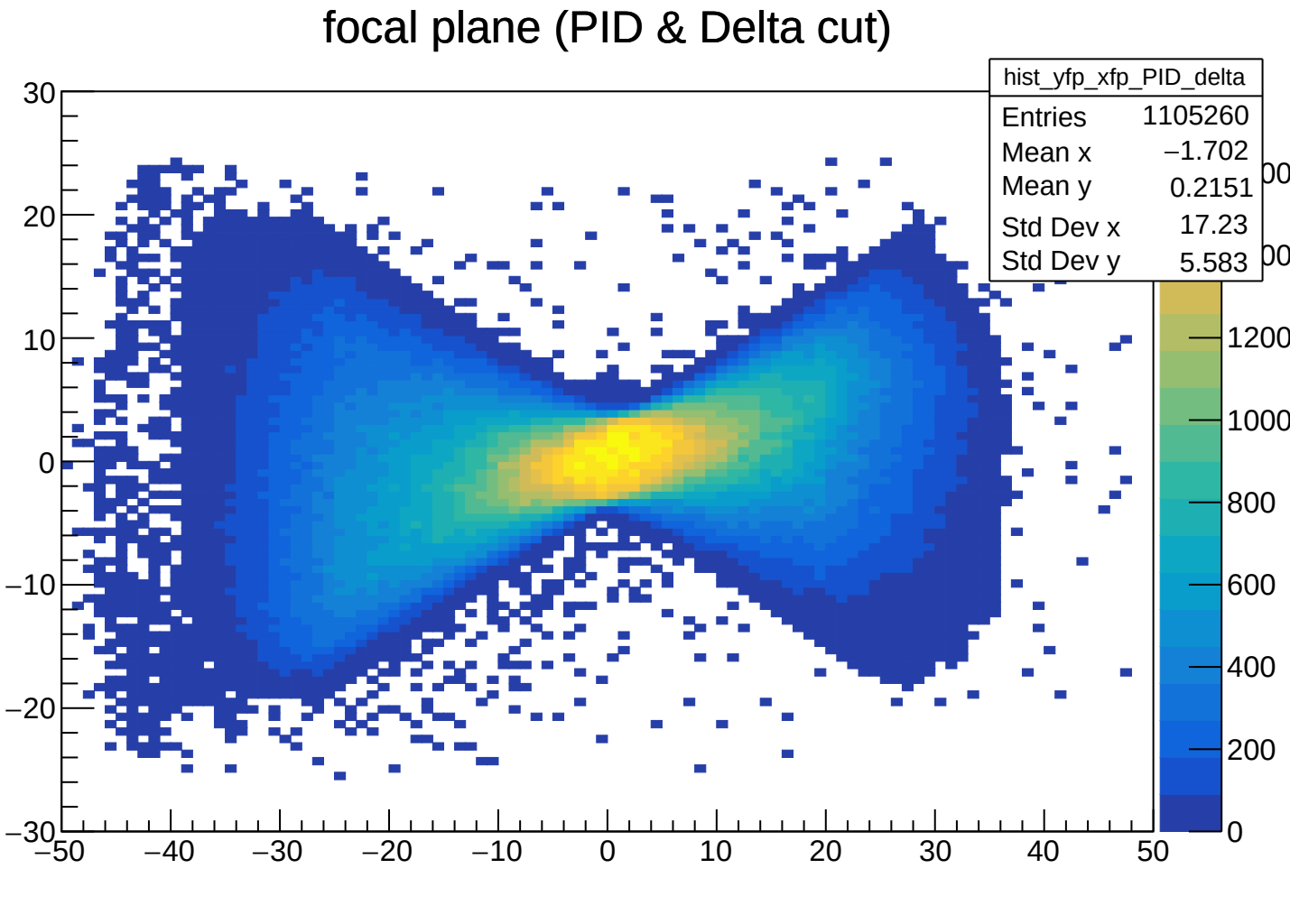

H.gtr.beta vs delta
hist_gtr_beta_delta
Entries 3598614
Mean x −1.305
Mean y 0.9953
Std Dev x 7.007
Std Dev y 0.04261
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
1600
1400
1200
1000
8000
6000
4000
2000
0

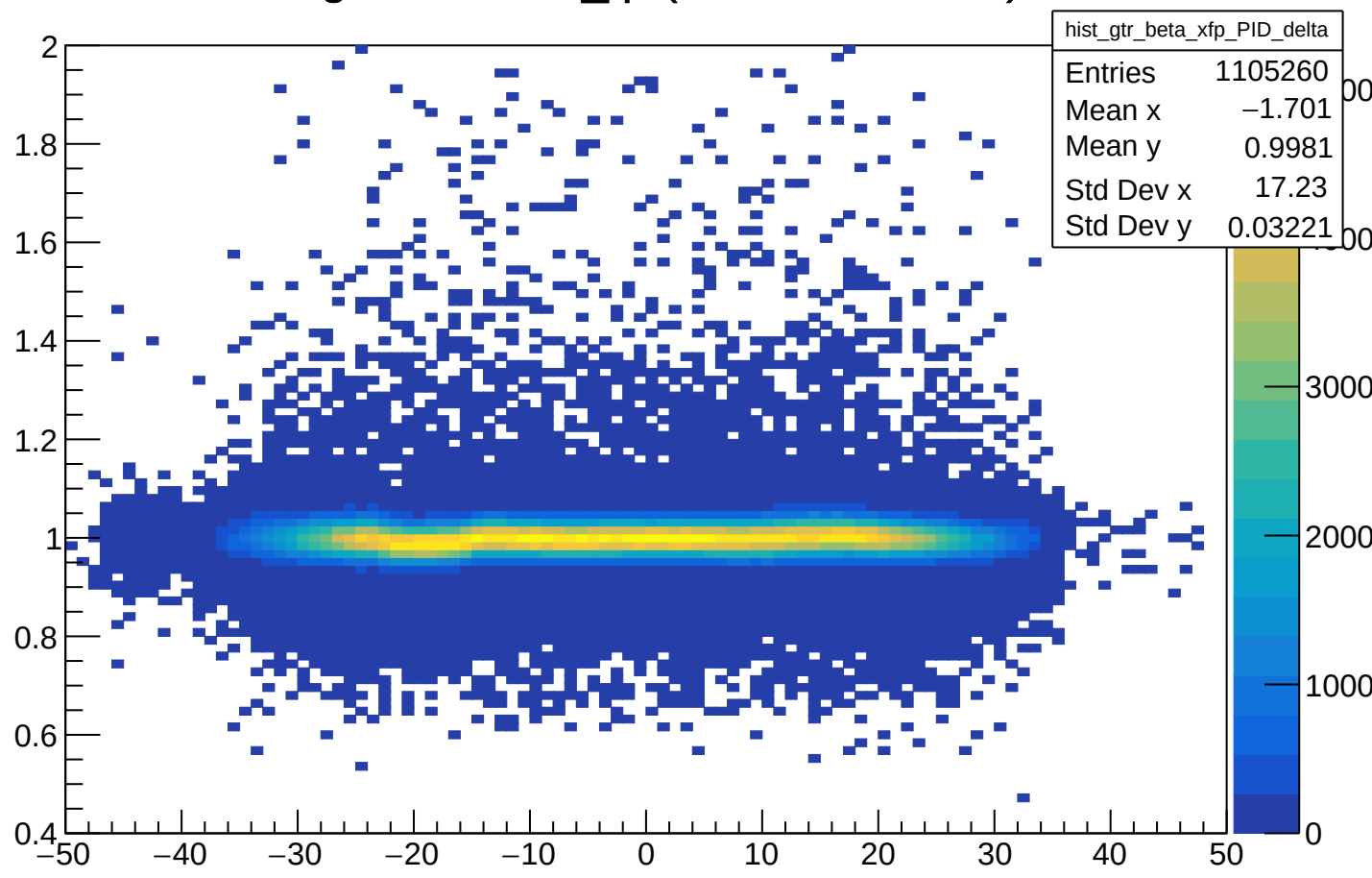

focal plane (PID cut)
hist_yfp_xfp_PID
Entries 1614488
Mean x −1.413
Mean y 0.2771
Std Dev x 24.79
Std Dev y 7.665
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
1200
1000
800
600
400
200
0

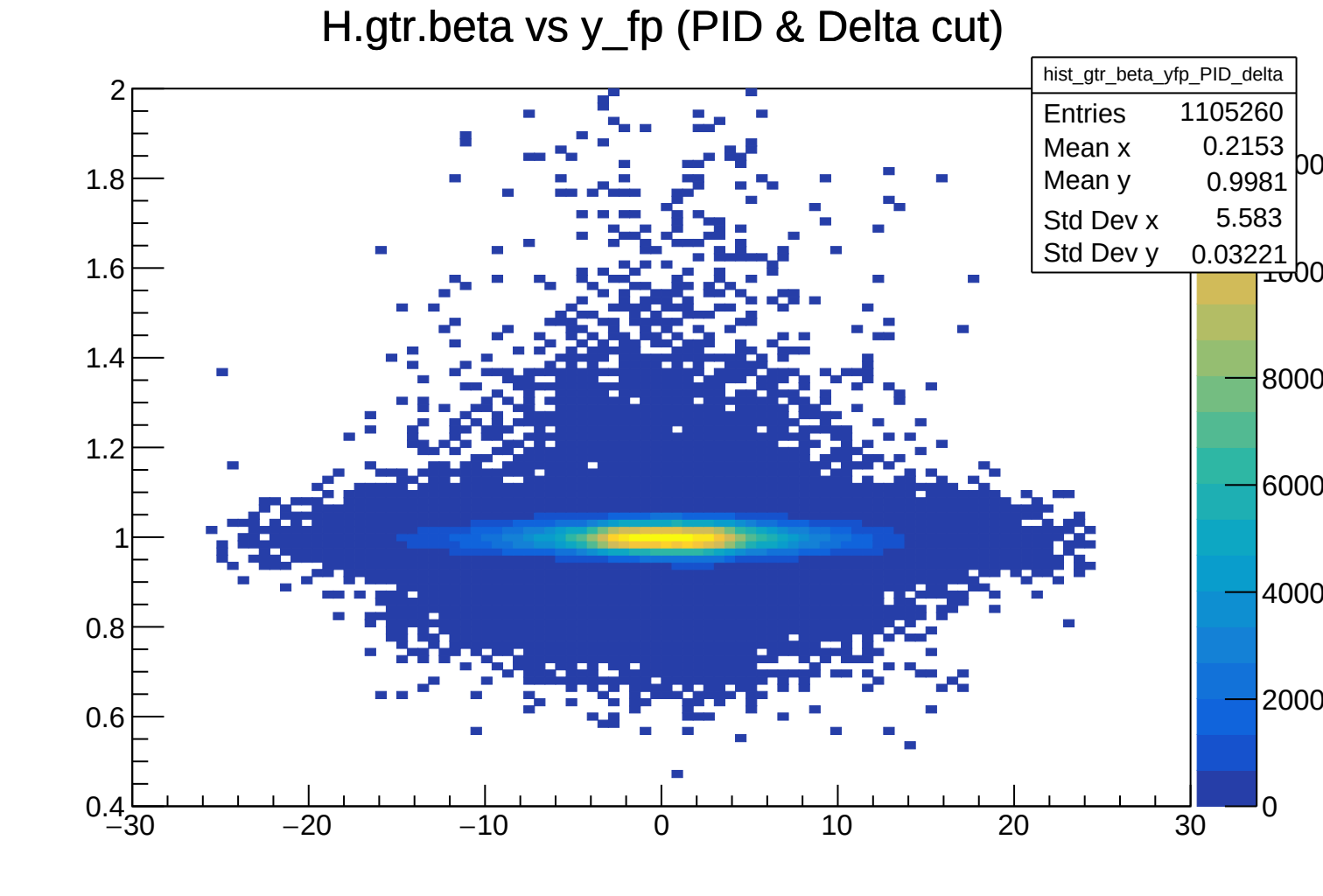

H.gtr.beta vs x_fp (PID cut)
hist_gtr_beta_xfp_PID
Entries 1614488
Mean x −1.384
Mean y 0.9982
Std Dev x 24.78
Std Dev y 0.03496
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−50
−40
−30
−20
−10
0
10
20
30
40
50
3000
2000
1000
0

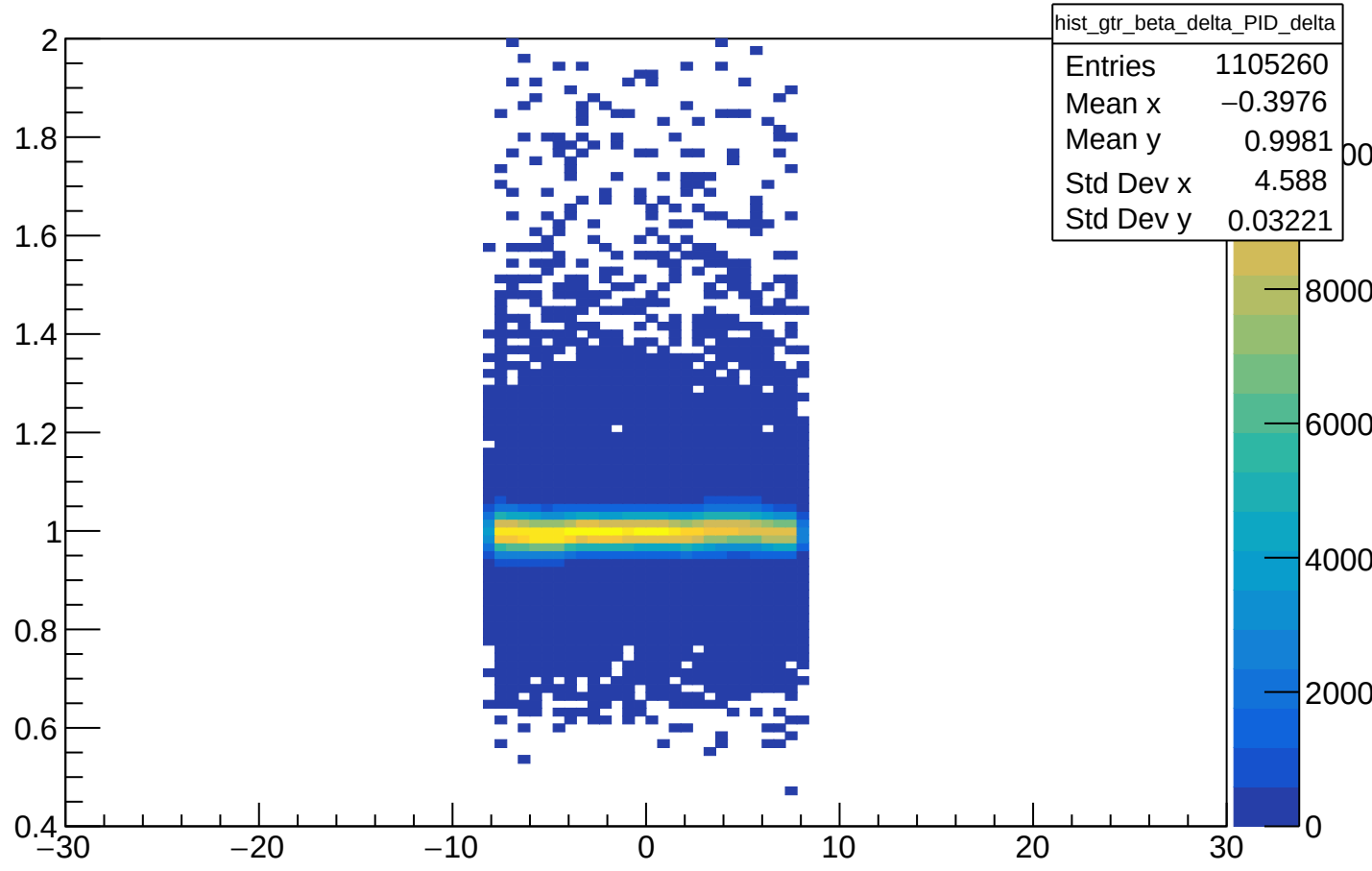

H.gtr.beta vs y_fp (PID cut)
hist_gtr_beta_yfp_PID
Entries 1614488
Mean x 0.2783
Mean y 0.9982
Std Dev x 7.664
Std Dev y 0.03496
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
1000
8000
6000
4000
2000
0


H.gtr.beta vs delta (PID cut)
hist_gtr_beta_delta_PID
Entries 1614488
Mean x −0.04771
Mean y 0.9982
Std Dev x 6.877
Std Dev y 0.03489
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
8000
6000
4000
2000
0


focal plane (PID & Delta cut)
hist_yfp_xfp_PID_delta
Entries 1105260
Mean x −1.702
Mean y 0.2151
Std Dev x 17.23
Std Dev y 5.583
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 1105260
Mean x −1.701
Mean y 0.9981
Std Dev x 17.23
Std Dev y 0.03221
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
3000
2000
1000
0


H.gtr.beta vs y_fp (PID & Delta cut)
hist_gtr_beta_yfp_PID_delta
Entries 1105260
Mean x 0.2153
Mean y 0.9981
Std Dev x 5.583
Std Dev y 0.03221
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
8000
6000
4000
2000
0


H.gtr.beta vs delta (PID & Delta cut)
hist_gtr_beta_delta_PID_delta
Entries 1105260
Mean x −0.3976
Mean y 0.9981
Std Dev x 4.588
Std Dev y 0.03221
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
8000
6000
4000
2000
0