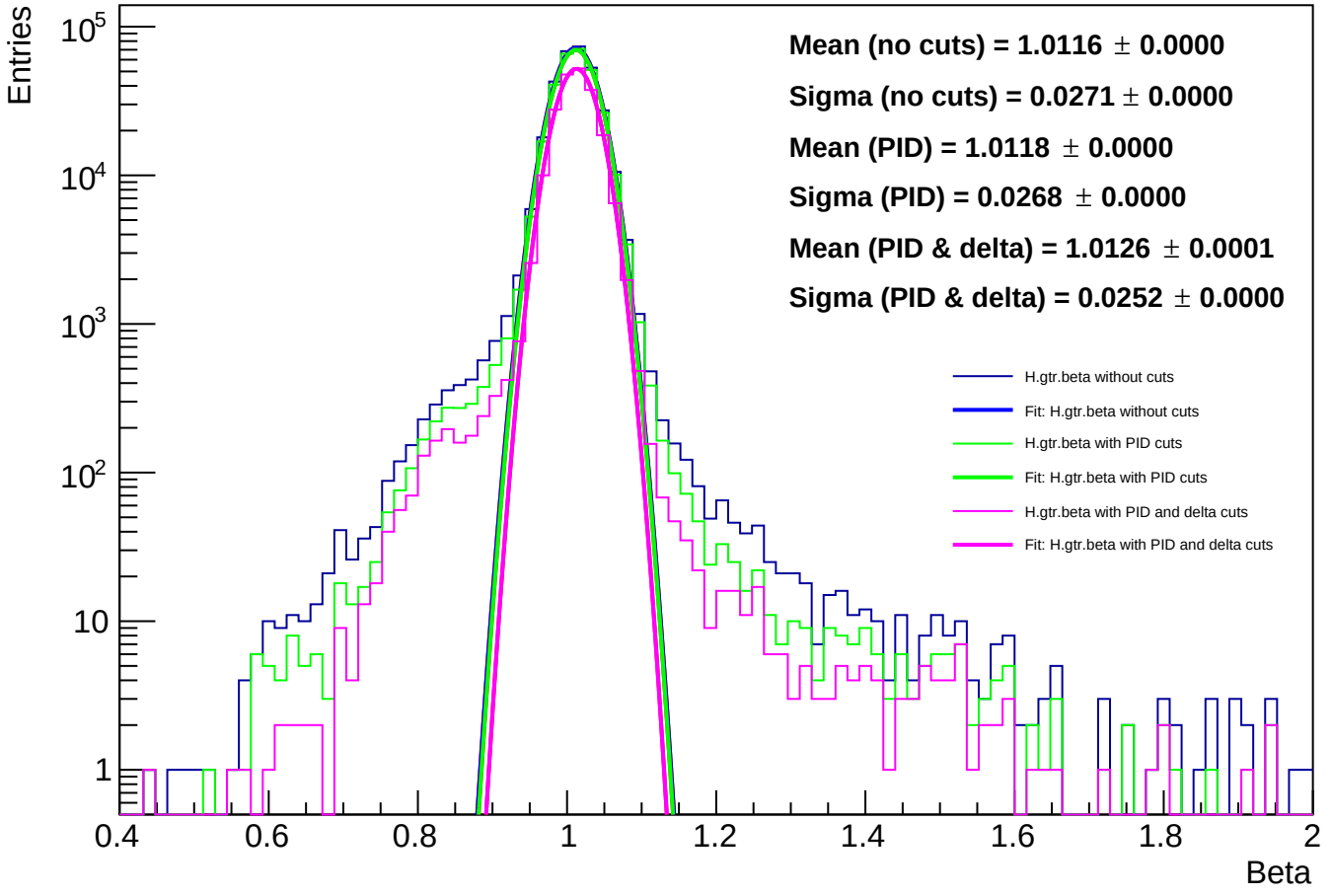
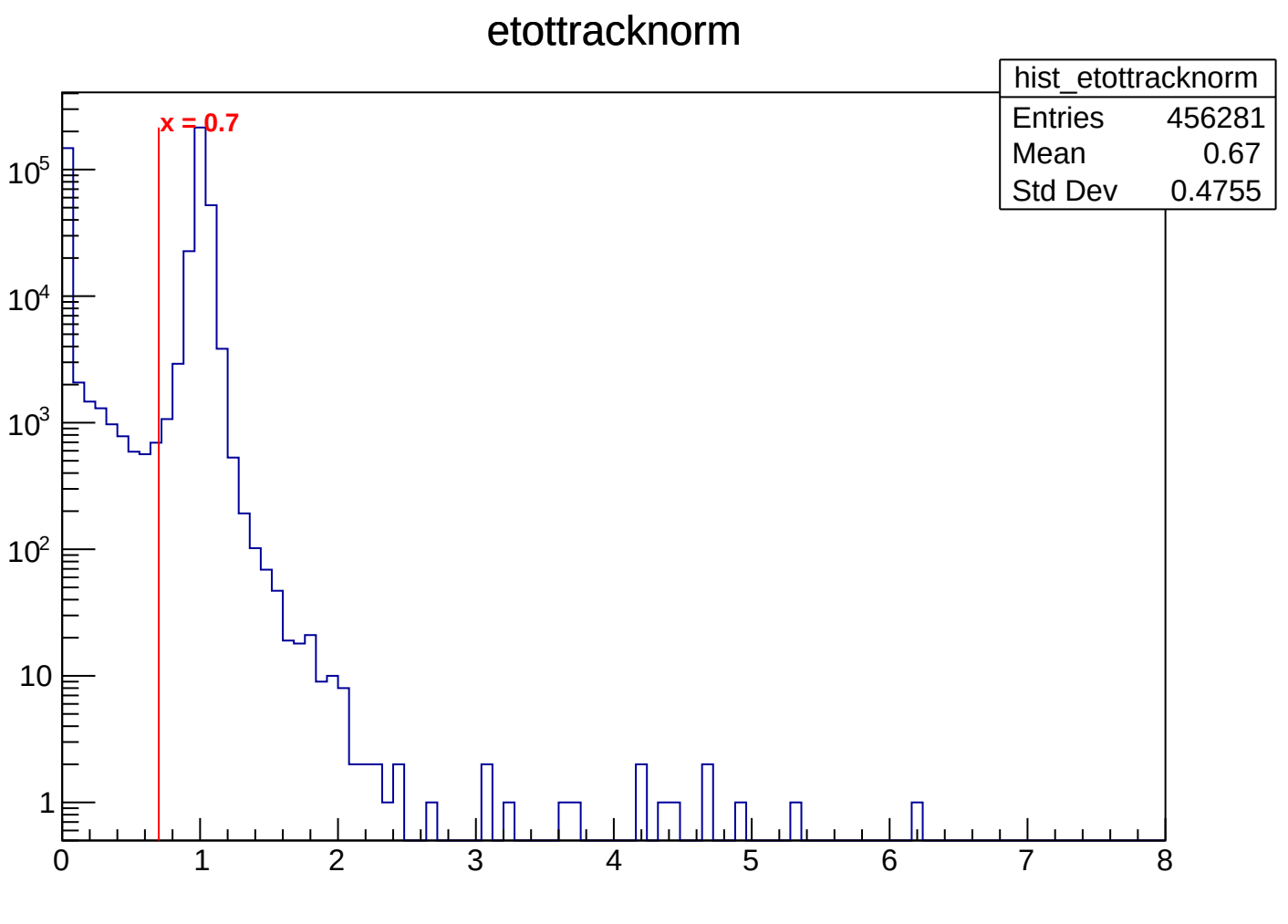
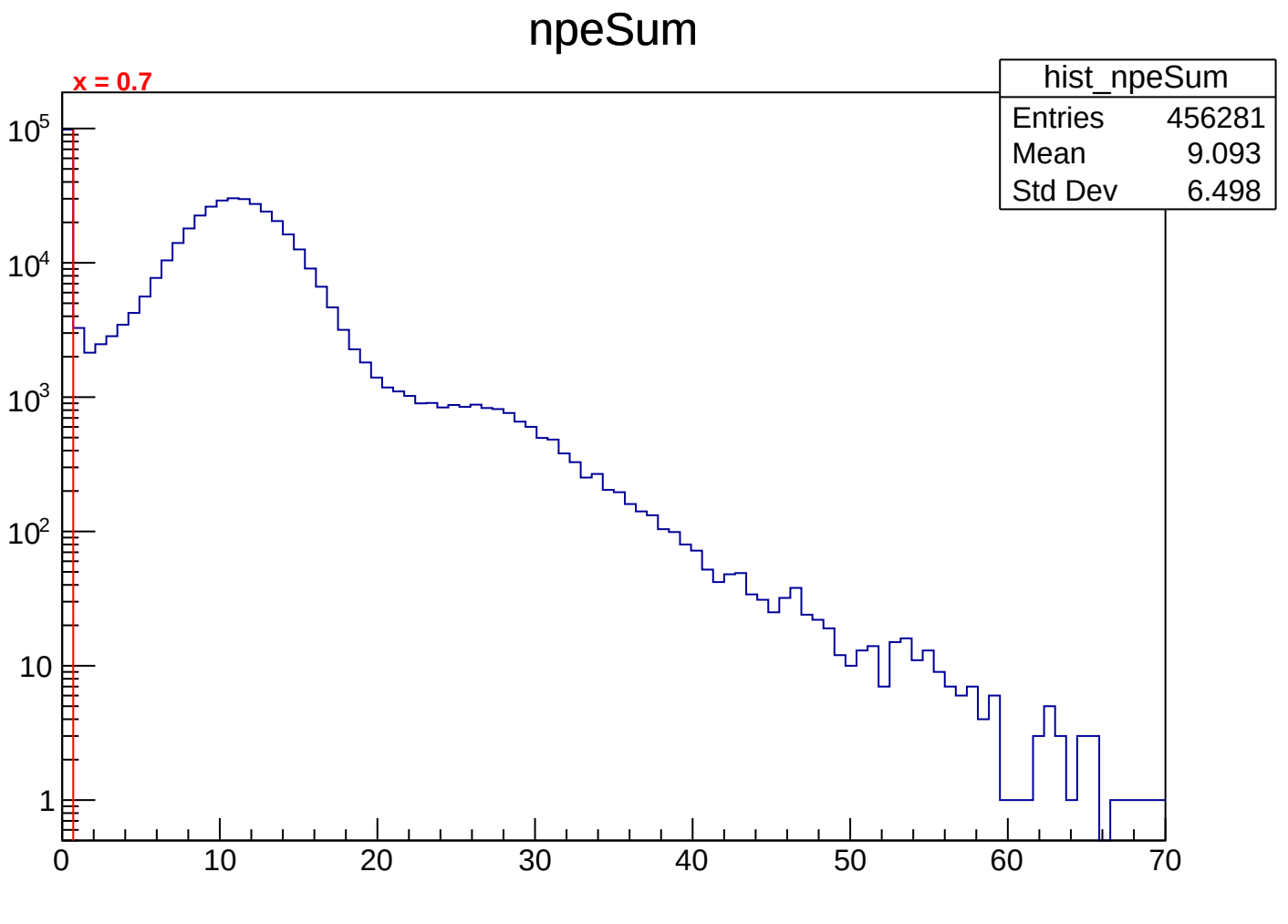
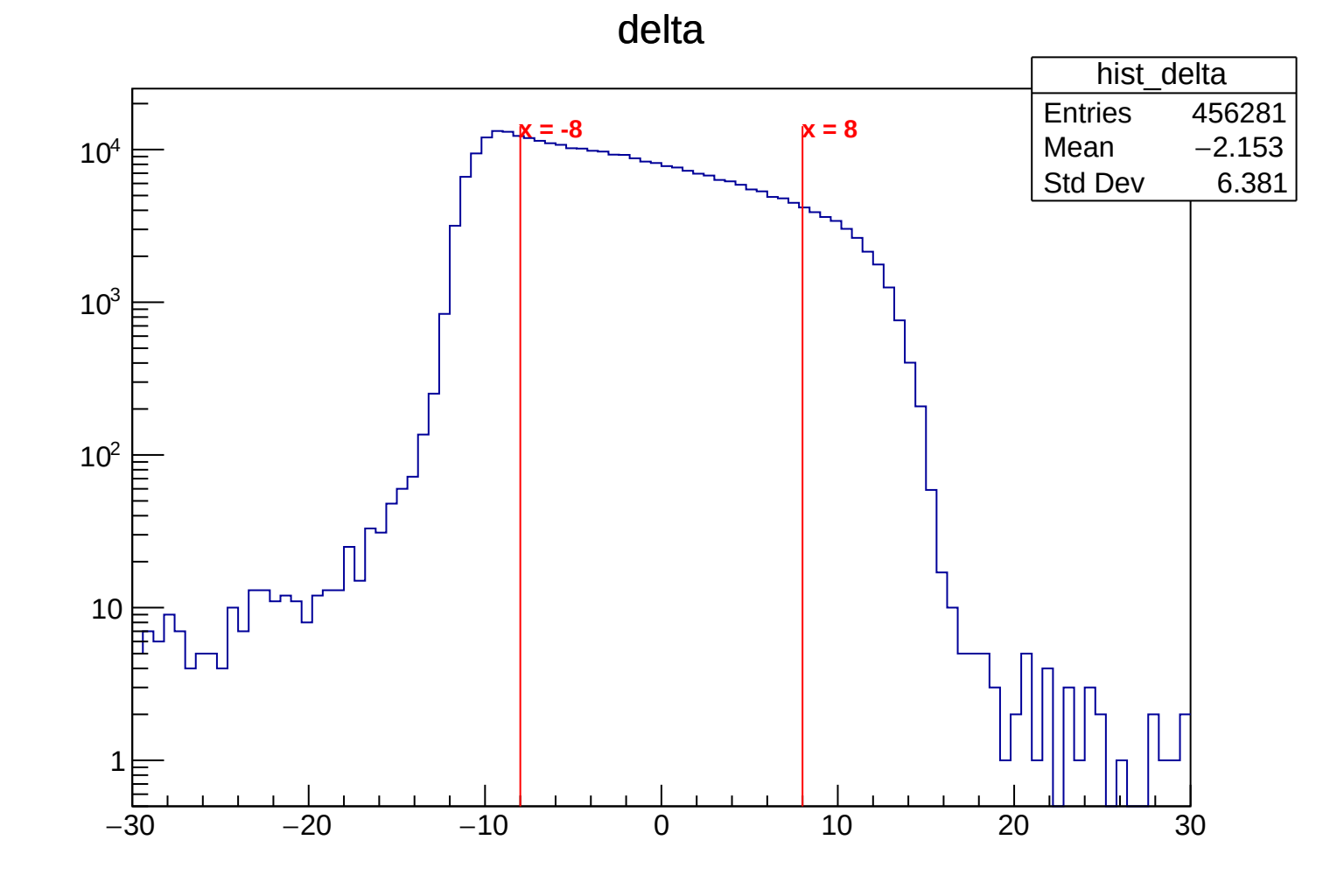
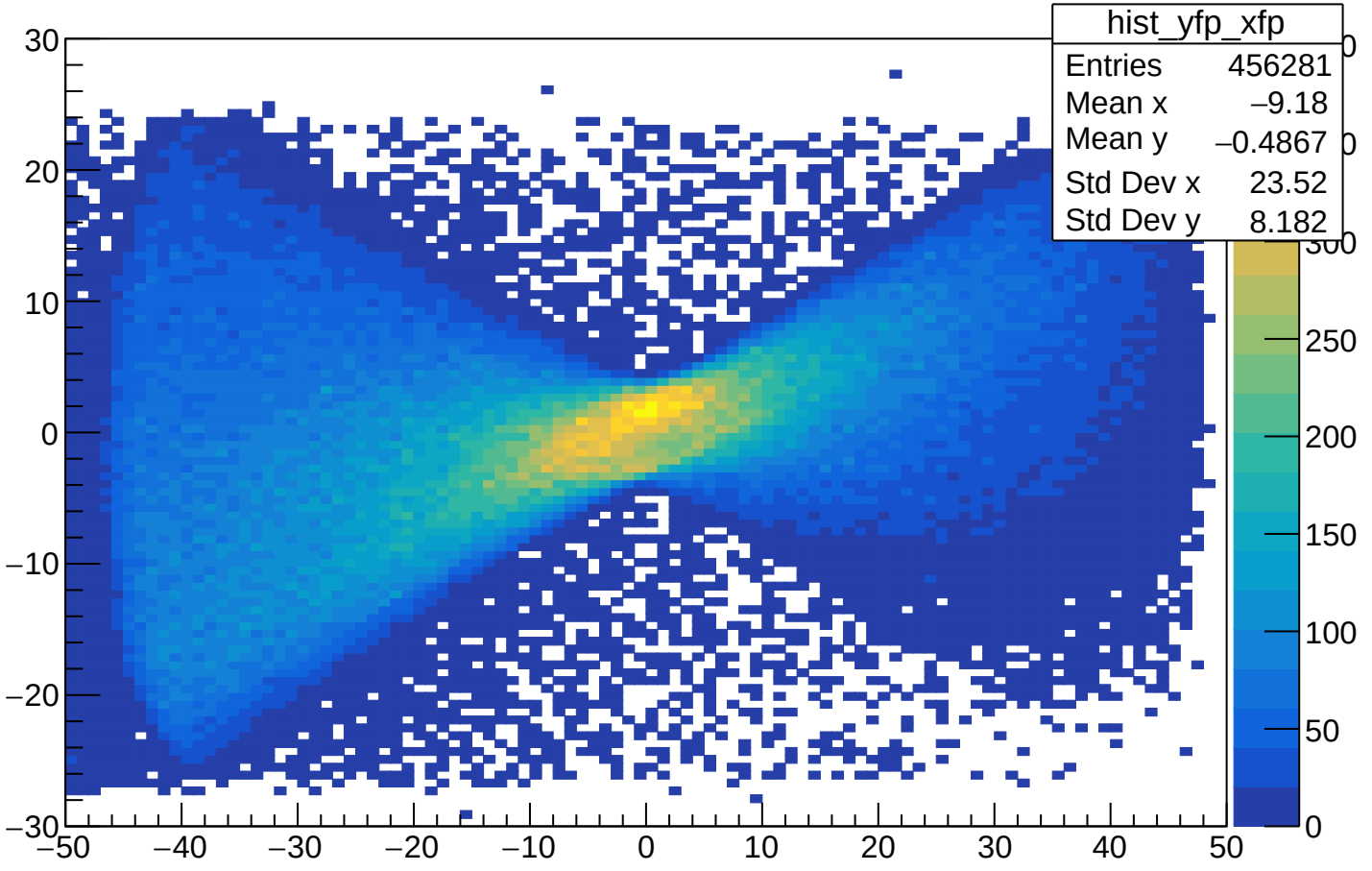
H.gtr.beta

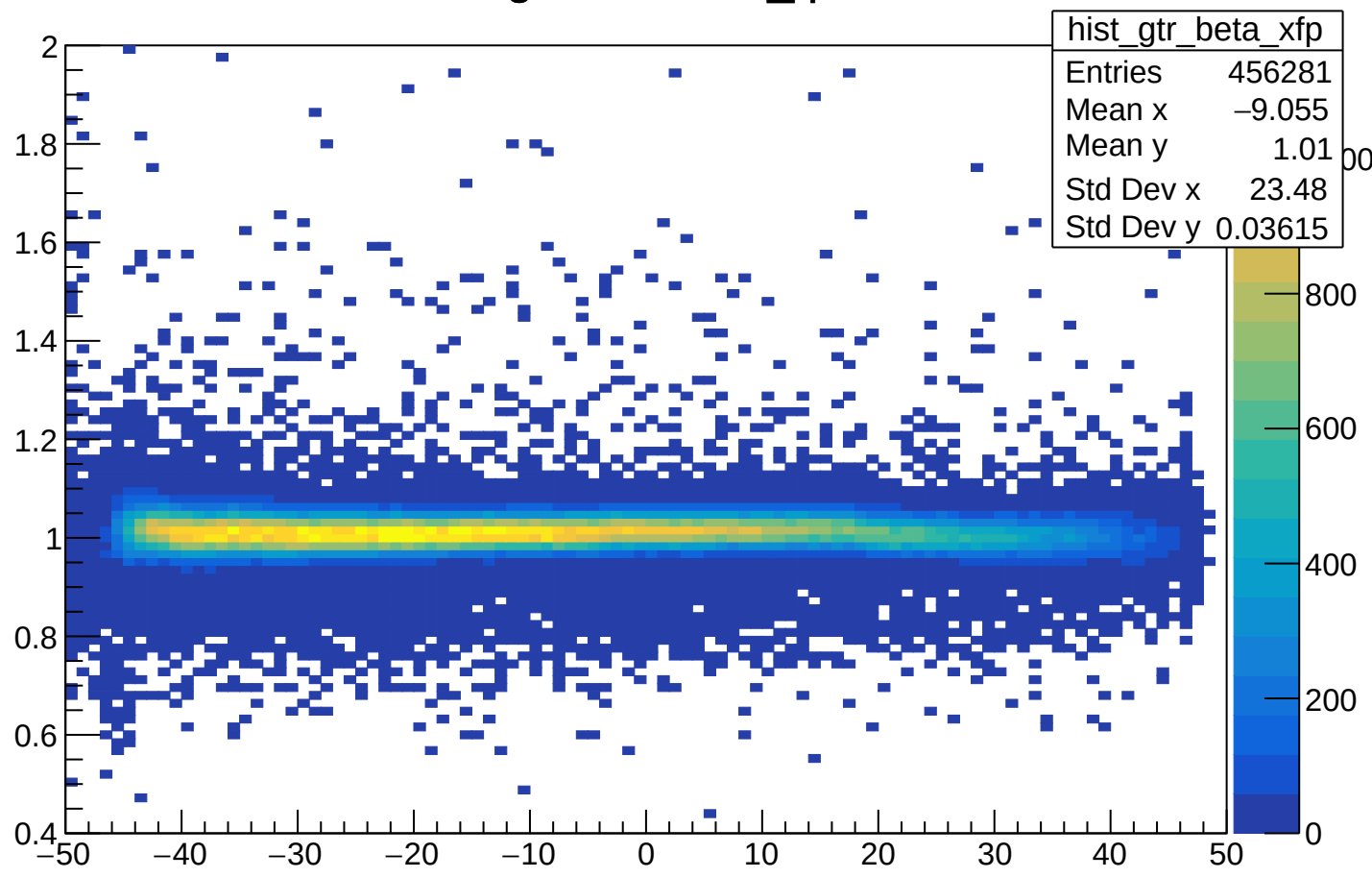

Entries
Beta
Mean (no cuts) = 1.0116 ± 0.0000
Sigma (no cuts) = 0.0271 ± 0.0000
Mean (PID) = 1.0118 ± 0.0000
Sigma (PID) = 0.0268 ± 0.0000
Mean (PID & delta) = 1.0126 ± 0.0001
Sigma (PID & delta) = 0.0252 ± 0.0000
H.gtr.beta without cuts
Fit: H.gtr.beta without cuts
H.gtr.beta with PID cuts
Fit: H.gtr.beta with PID cuts
H.gtr.beta with PID and delta cuts
Fit: H.gtr.beta with PID and delta cuts

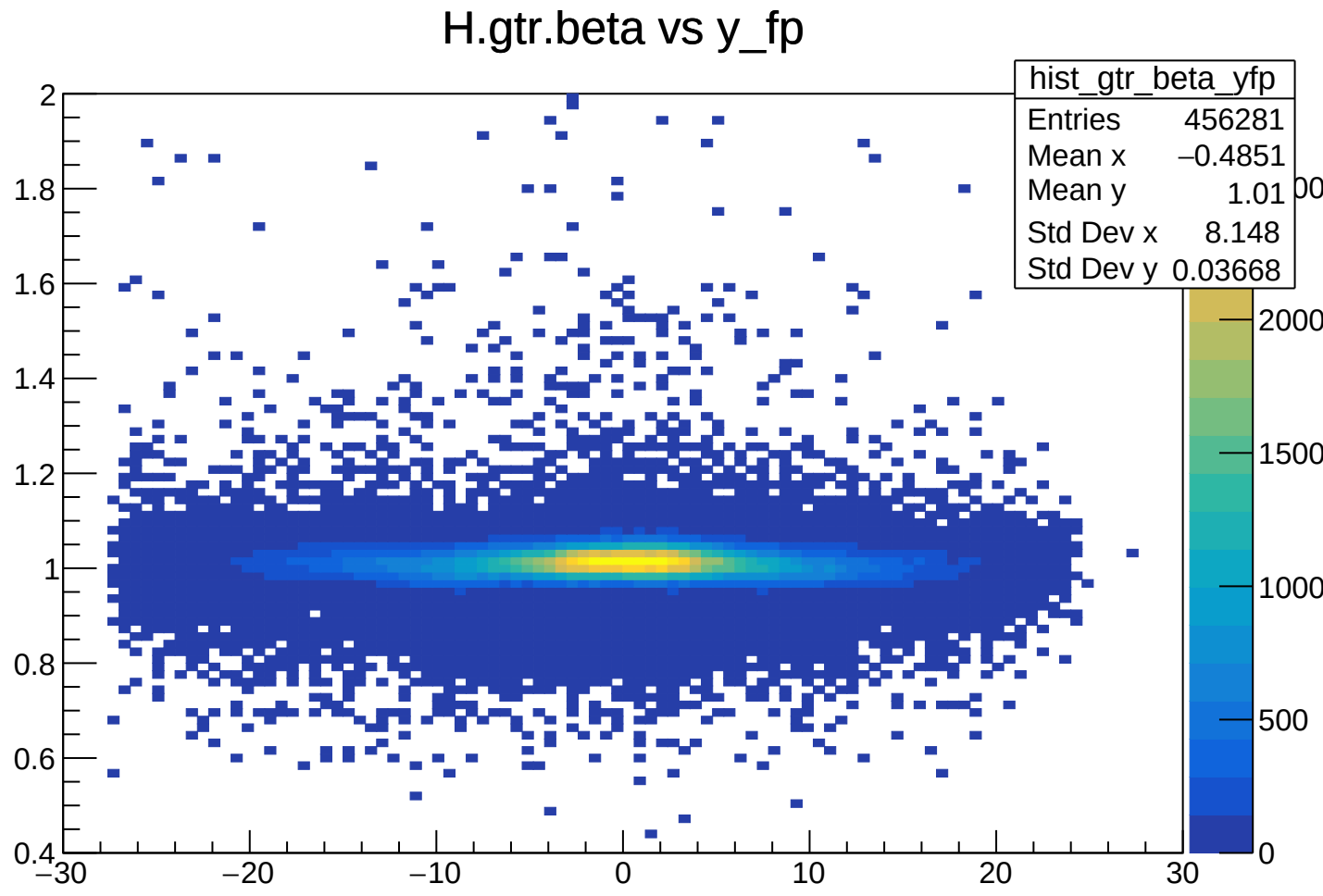

etottracknorm
hist_etottracknorm
Entries 456281
Mean 0.67
Std Dev 0.4755
x = 0.7
10^5
10^4
10^3
10^2
10
1
0
1
2
3
4
5
6
7
8

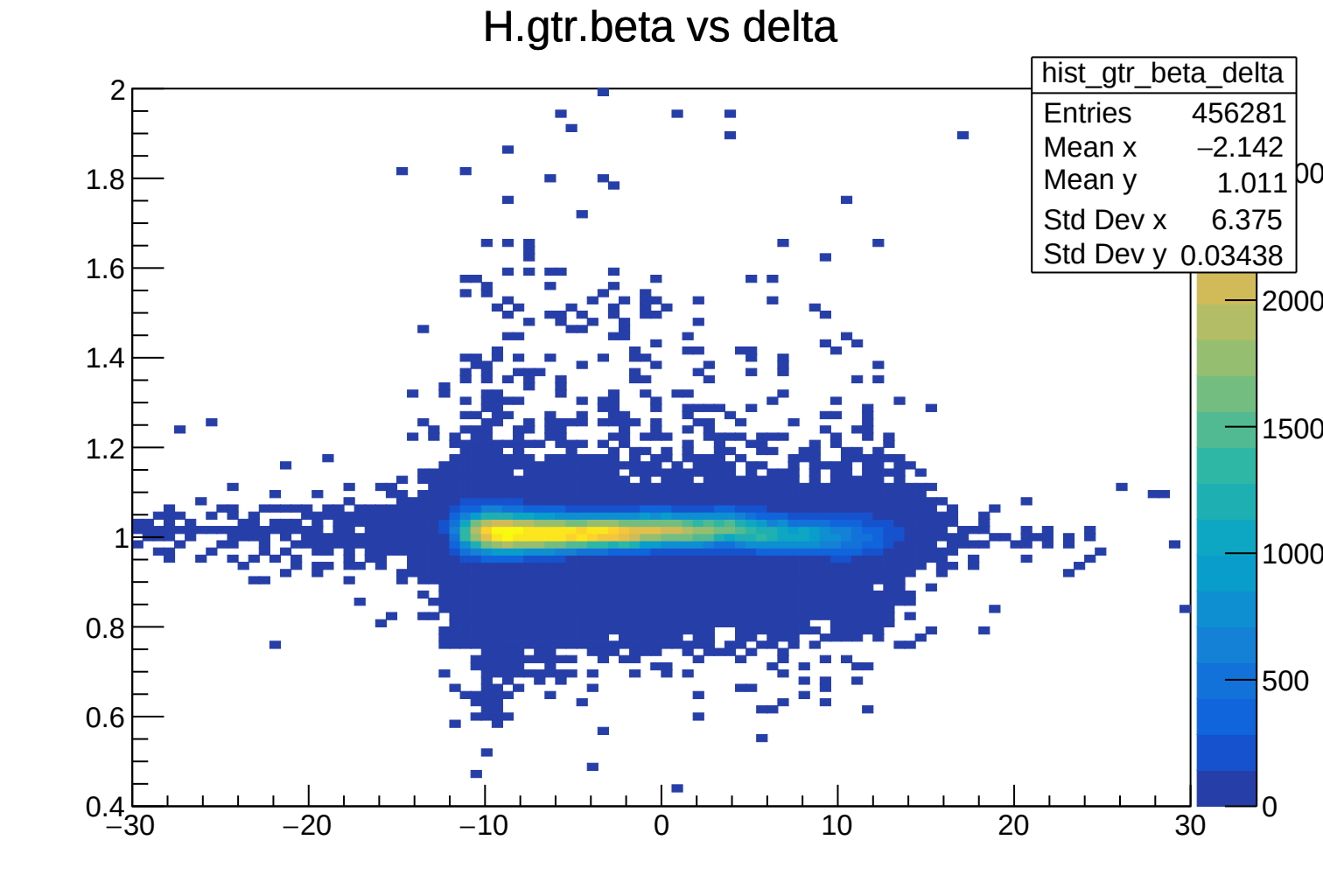

npeSum
x = 0.7
hist_npeSum
Entries 456281
Mean 9.093
Std Dev 6.498
10^5
10^4
10^3
10^2
10
1
0
10
20
30
40
50
60
70

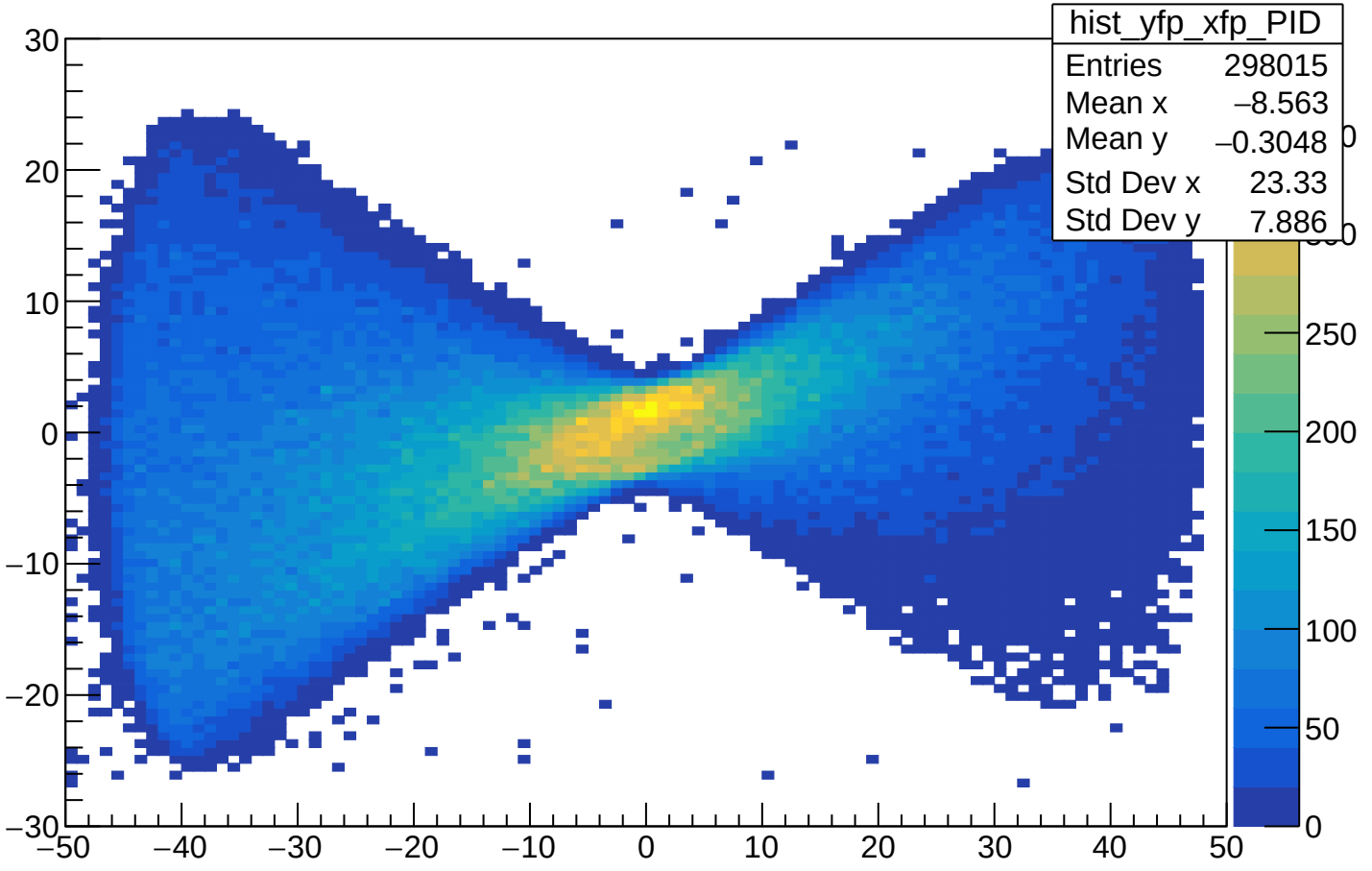

delta
hist_delta
Entries 456281
Mean −2.153
Std Dev 6.381
x = -8
x = 8
10^4
10^3
10^2
10
1
−30
−20
−10
0
10
20
30

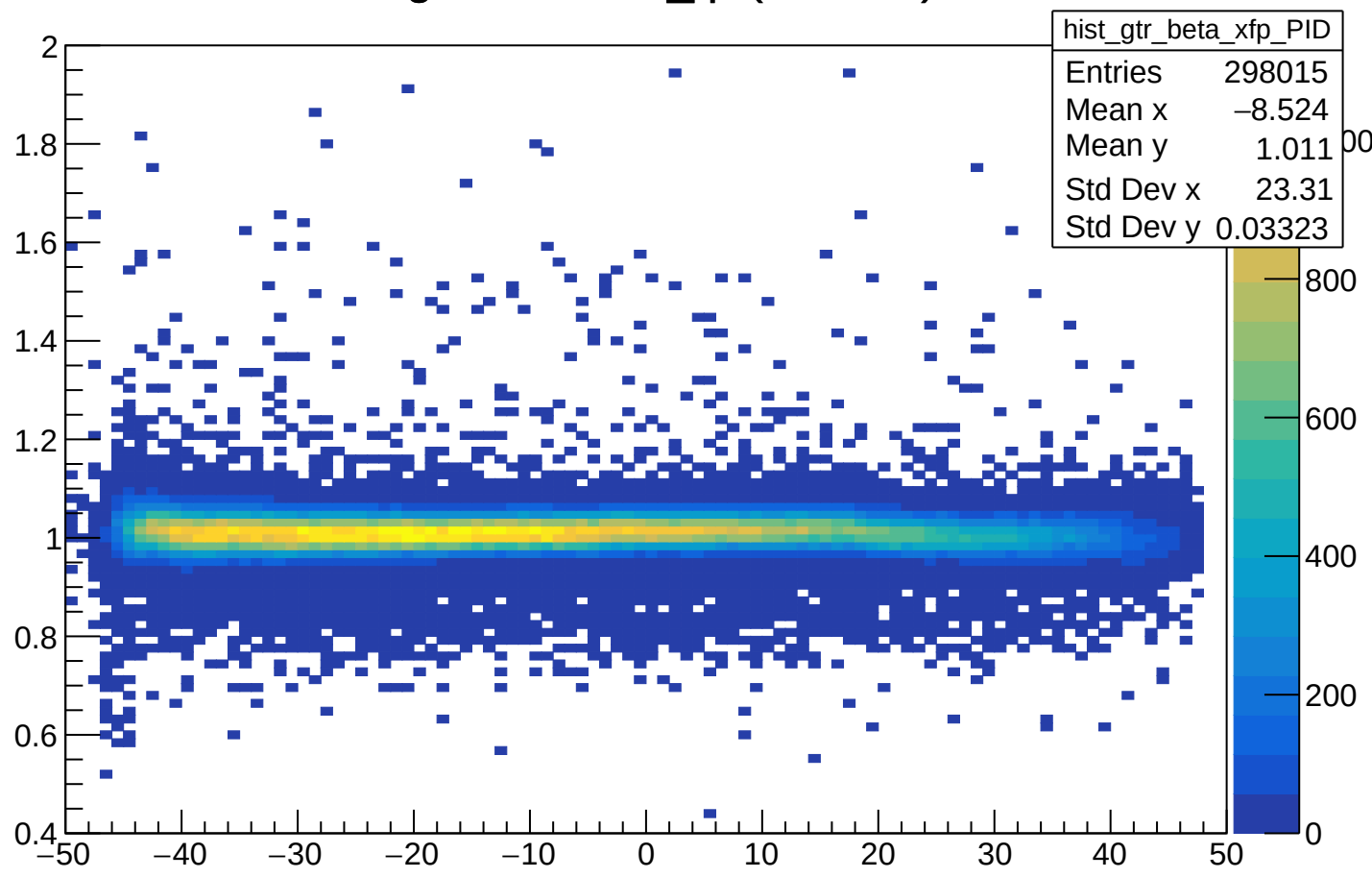

focal plane
hist_yfp_xfp
Entries 456281
Mean x −9.18
Mean y −0.4867
Std Dev x 23.52
Std Dev y 8.182
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
250
200
150
100
50
0

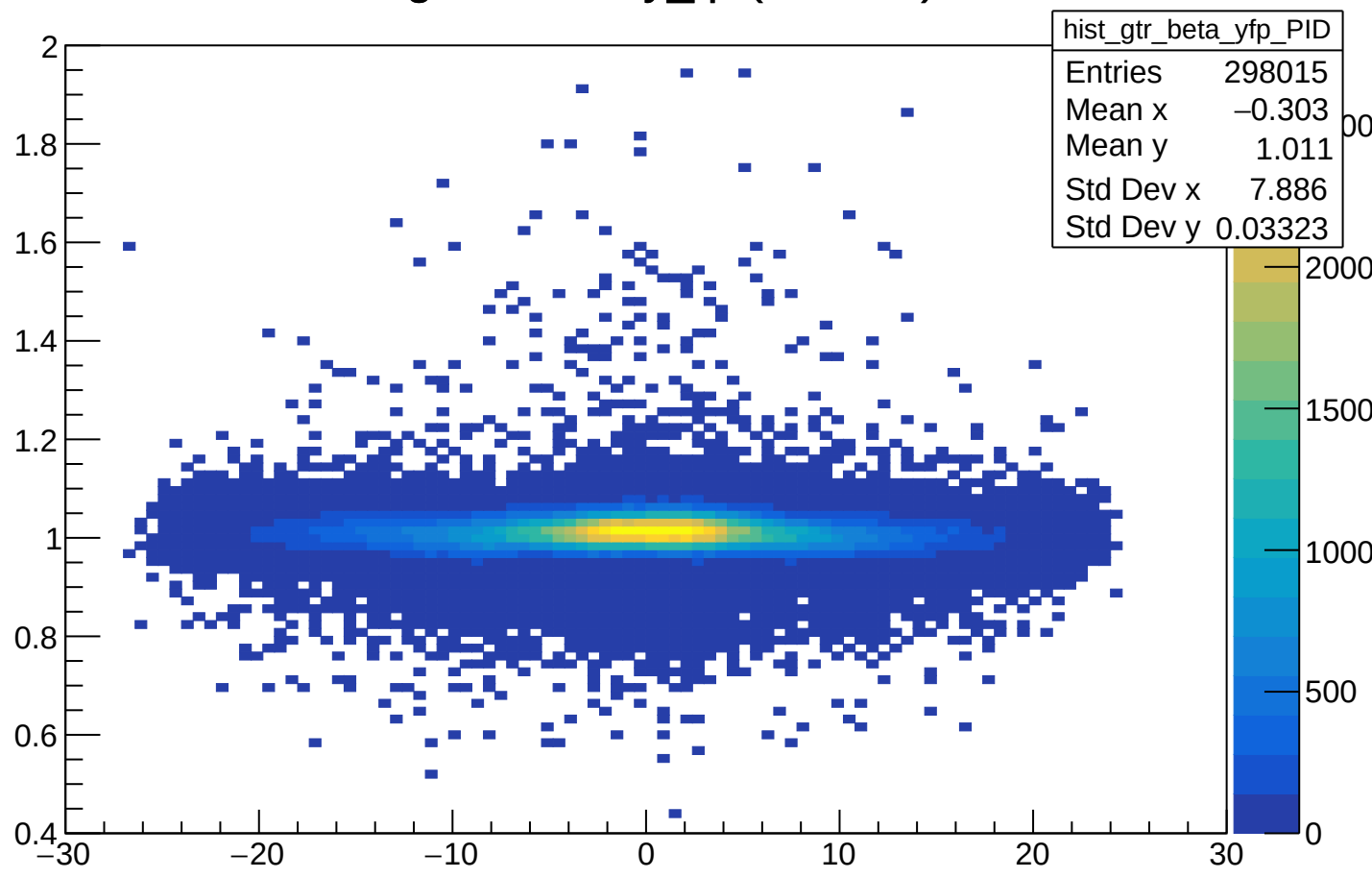

H.gtr.beta vs x_fp
hist_gtr_beta_xfp
Entries 456281
Mean x −9.055
Mean y 1.01
Std Dev x 23.48
Std Dev y 0.03615
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−50
−40
−30
−20
−10
0
10
20
30
40
50
800
600
400
200
0

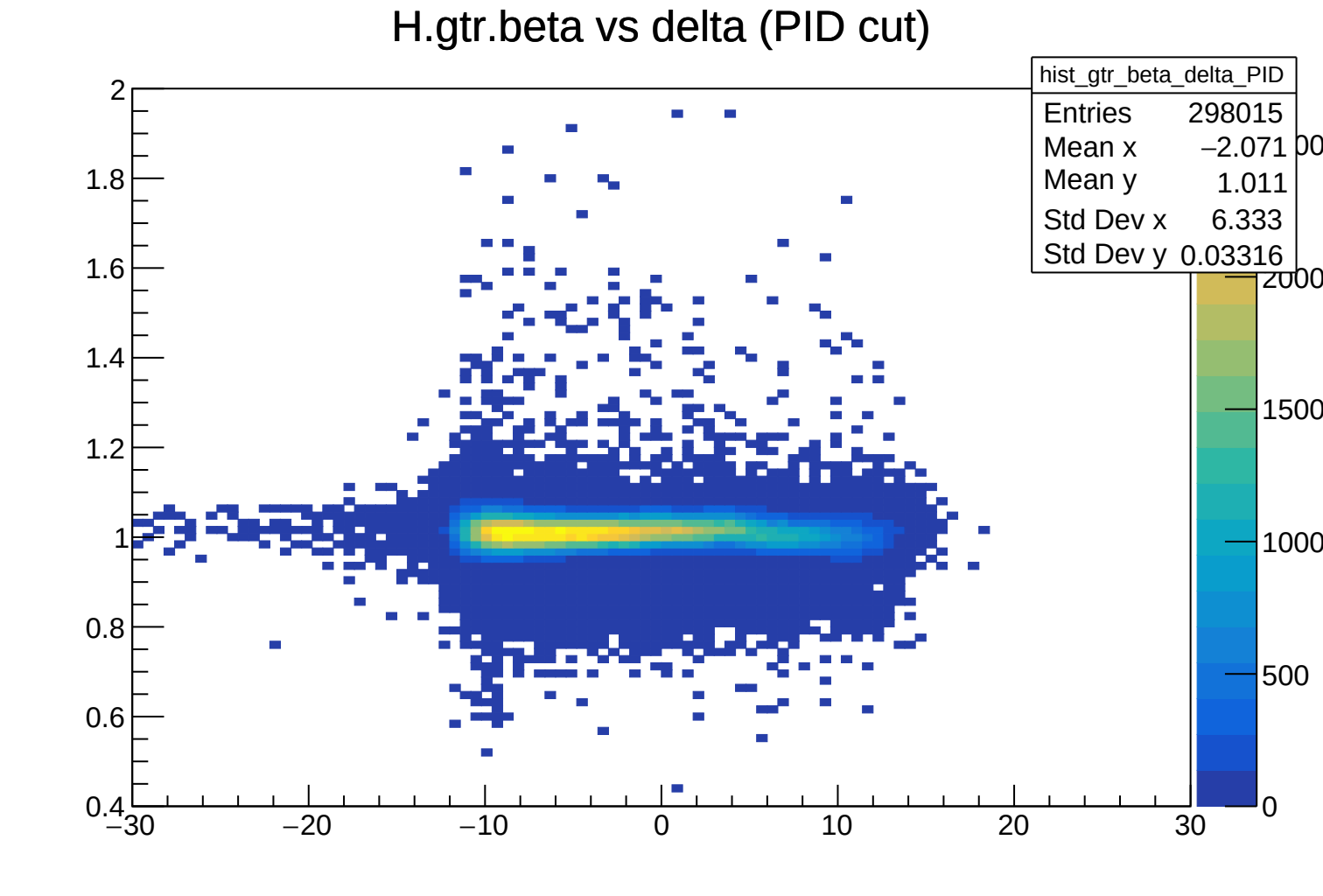

H.gtr.beta vs y_fp
hist_gtr_beta_yfp
Entries 456281
Mean x −0.4851
Mean y 1.01
Std Dev x 8.148
Std Dev y 0.03668
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
2000
1500
1000
500
0

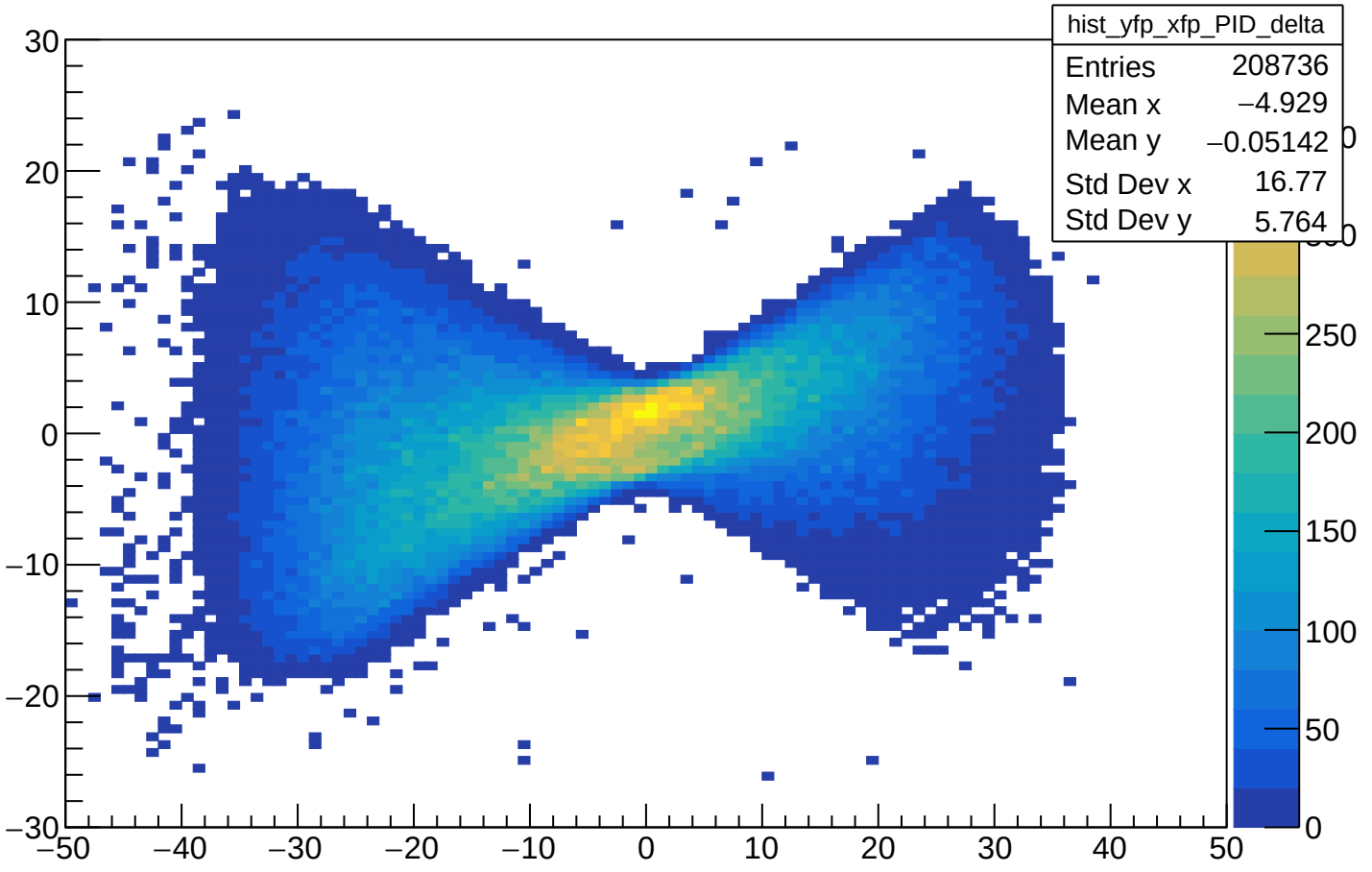

H.gtr.beta vs delta
hist_gtr_beta_delta
Entries 456281
Mean x −2.142
Mean y 1.011
Std Dev x 6.375
Std Dev y 0.03438
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
2000
1500
1000
500
0

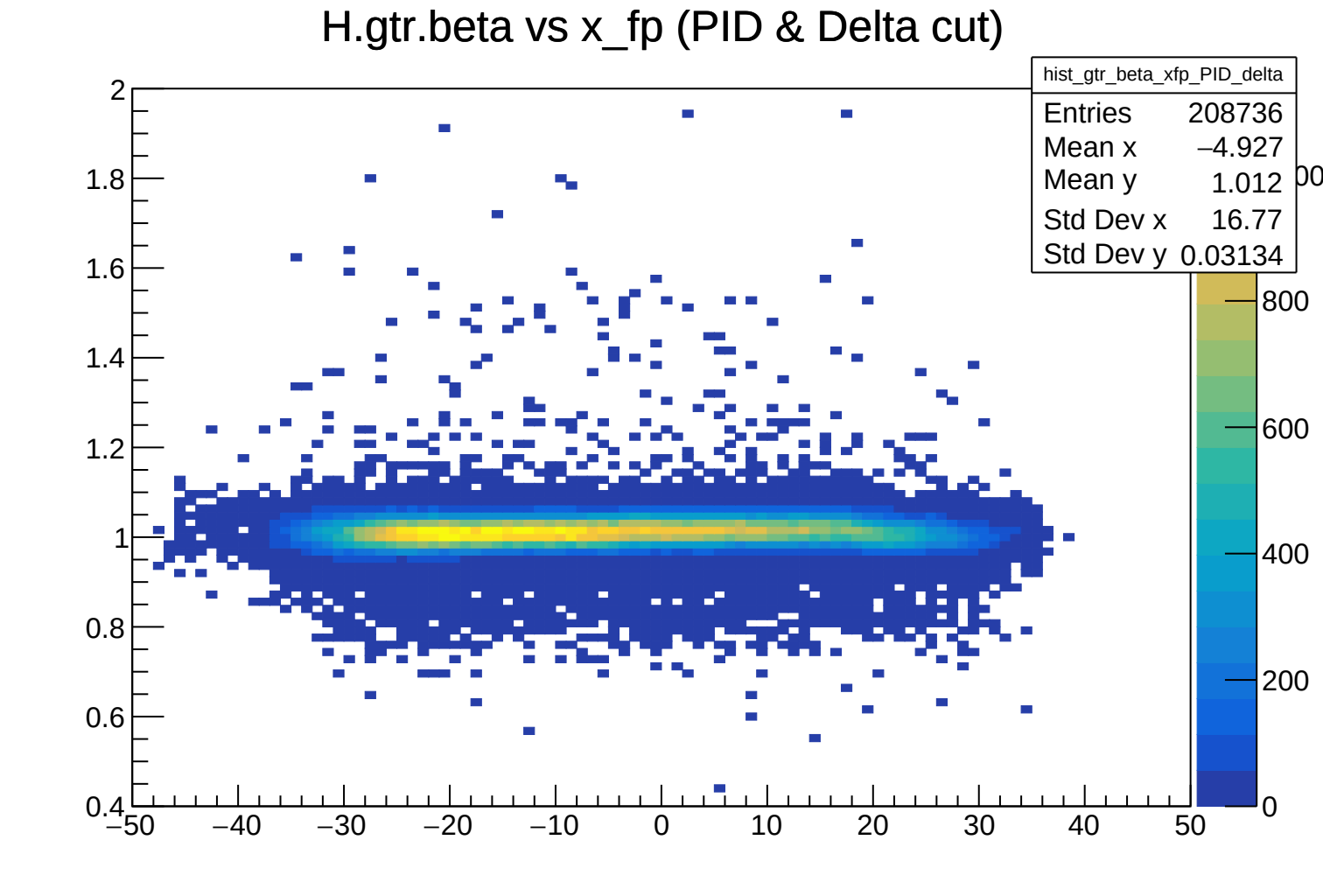

focal plane (PID cut)
hist_yfp_xfp_PID
Entries 298015
Mean x −8.563
Mean y −0.3048
Std Dev x 23.33
Std Dev y 7.886
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
250
200
150
100
50
0

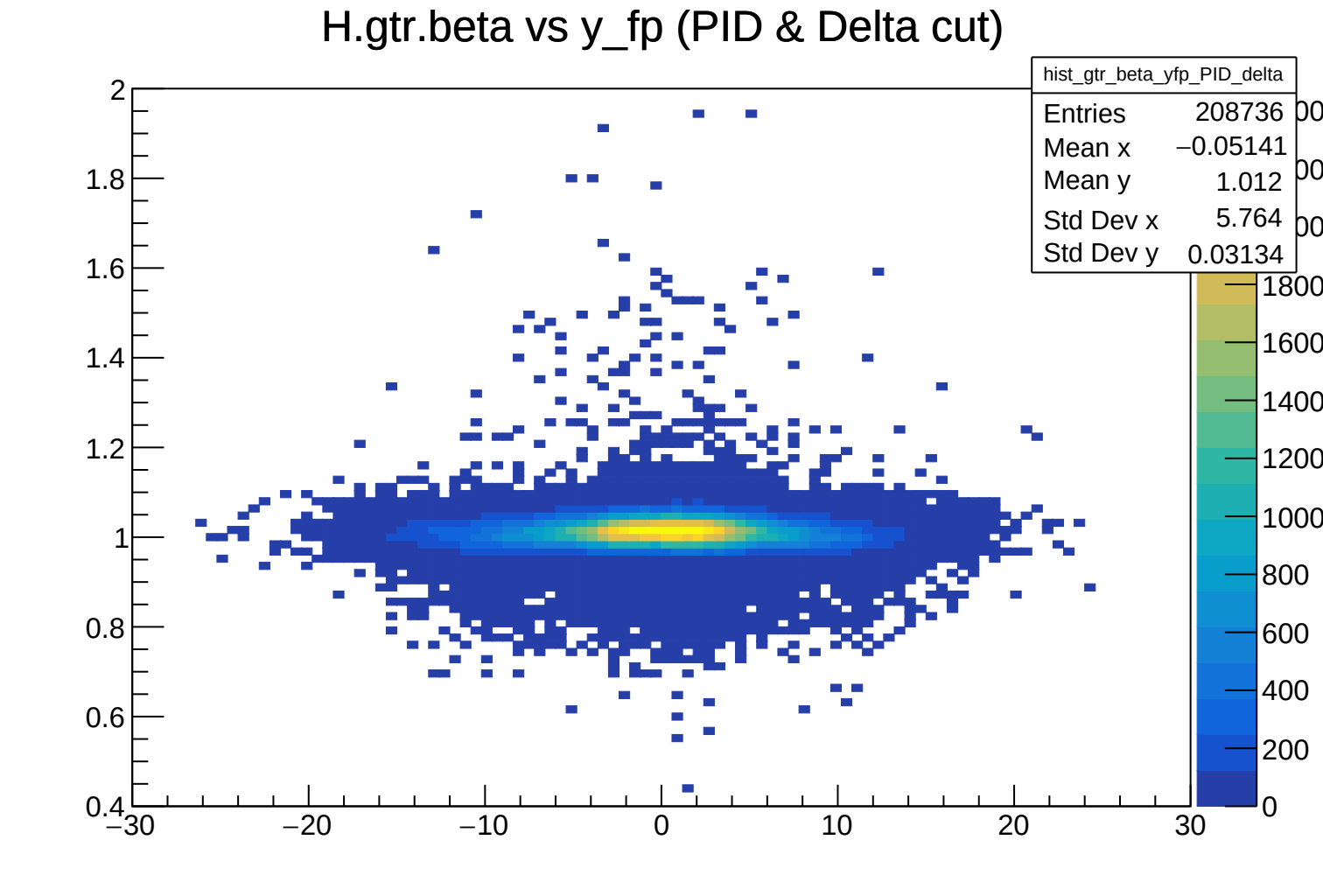

H.gtr.beta vs x_fp (PID cut)
hist_gtr_beta_xfp_PID
Entries 298015
Mean x −8.524
Mean y 1.011
Std Dev x 23.31
Std Dev y 0.03323
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−50
−40
−30
−20
−10
0
10
20
30
40
50
800
600
400
200
0

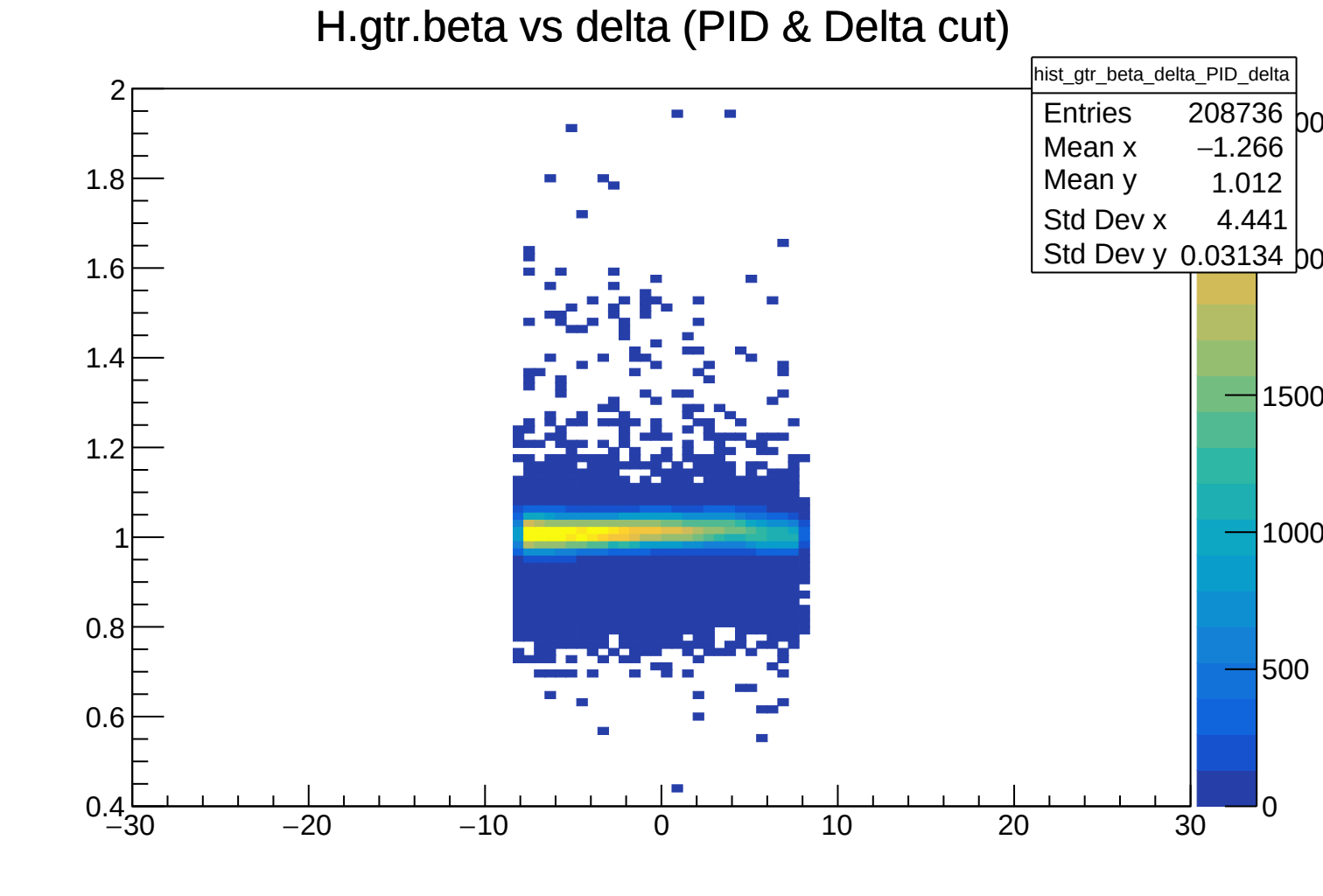

H.gtr.beta vs y_fp (PID cut)
hist_gtr_beta_yfp_PID
Entries 298015
Mean x −0.303
Mean y 1.011
Std Dev x 7.886
Std Dev y 0.03323
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
2000
1500
1000
500
0


H.gtr.beta vs delta (PID cut)
hist_gtr_beta_delta_PID
Entries 298015
Mean x −2.071
Mean y 1.011
Std Dev x 6.333
Std Dev y 0.03316
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 & Delta cut)
hist_yfp_xfp_PID_delta
Entries 208736
Mean x −4.929
Mean y −0.05142
Std Dev x 16.77
Std Dev y 5.764
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
250
200
150
100
50
0


H.gtr.beta vs x_fp (PID & Delta cut)
hist_gtr_beta_xfp_PID_delta
Entries 208736
Mean x –4.927
Mean y 1.012
Std Dev x 16.77
Std Dev y 0.03134
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
800
600
400
200
0


H.gtr.beta vs y_fp (PID & Delta cut)
hist_gtr_beta_yfp_PID_delta
Entries 208736
Mean x −0.05141
Mean y 1.012
Std Dev x 5.764
Std Dev y 0.03134
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
800
600
400
200
0


H.gtr.beta vs delta (PID & Delta cut)
hist_gtr_beta_delta_PID_delta
Entries 208736
Mean x −1.266
Mean y 1.012
Std Dev x 4.441
Std Dev y 0.03134
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
1500
1000
500
0