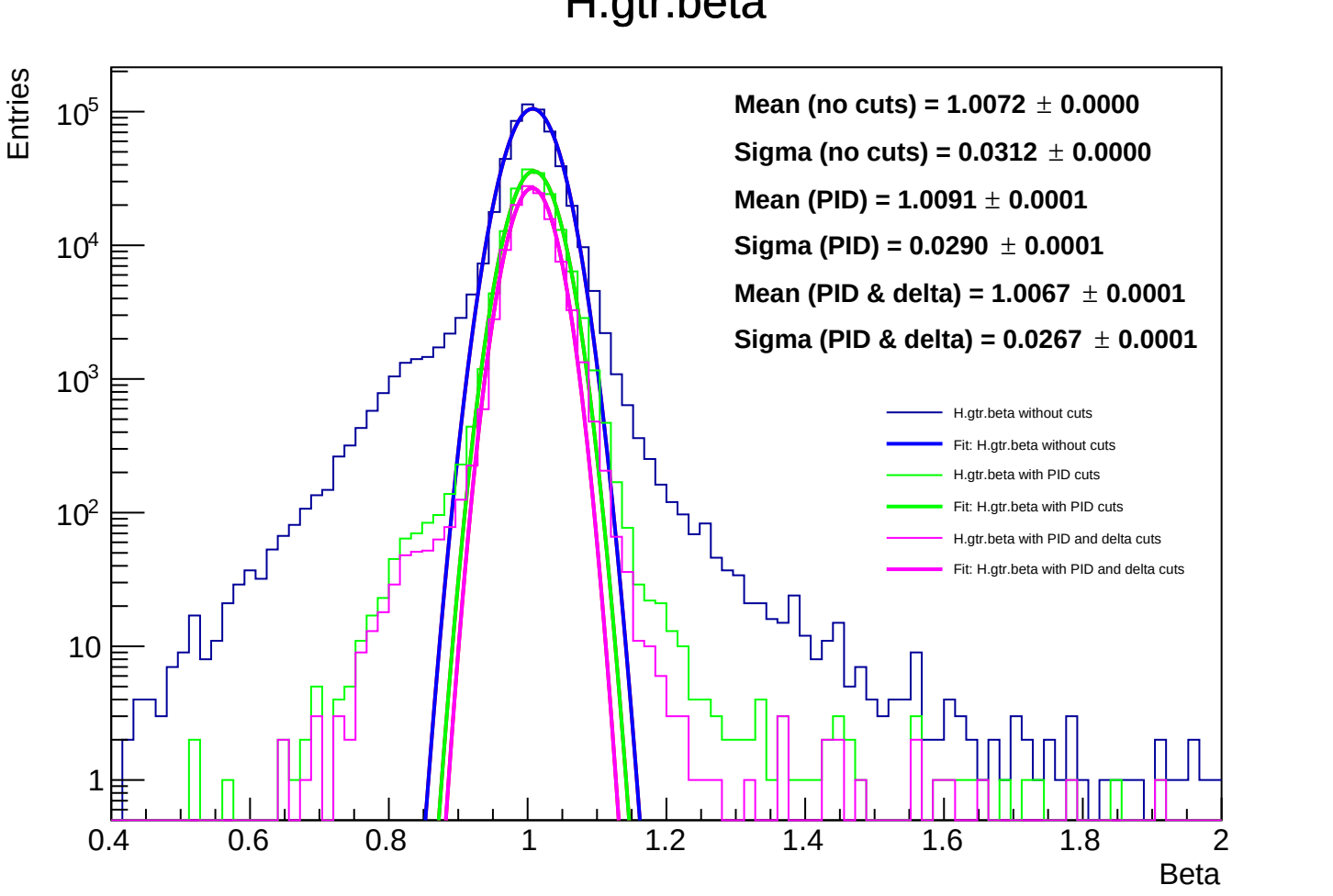
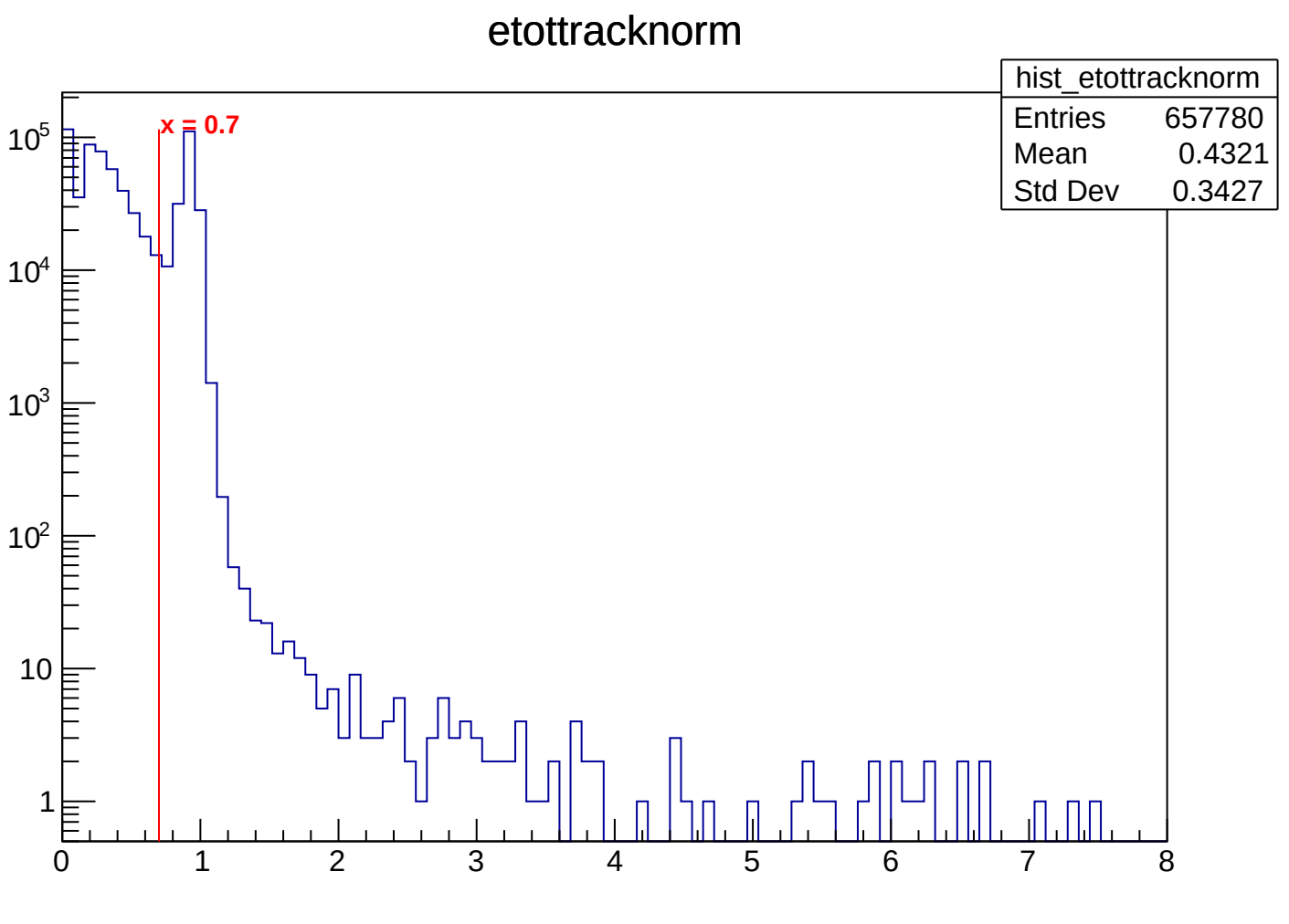
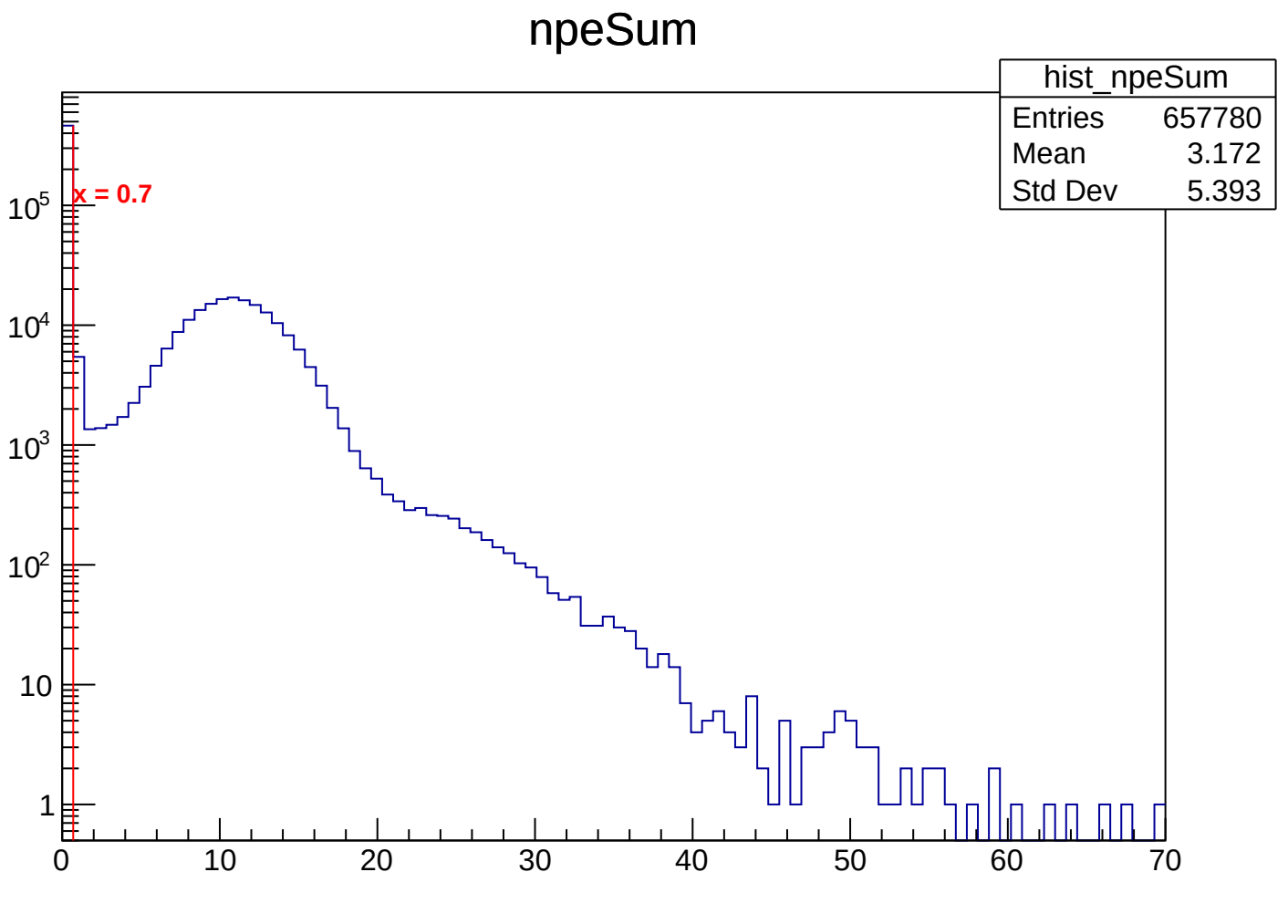
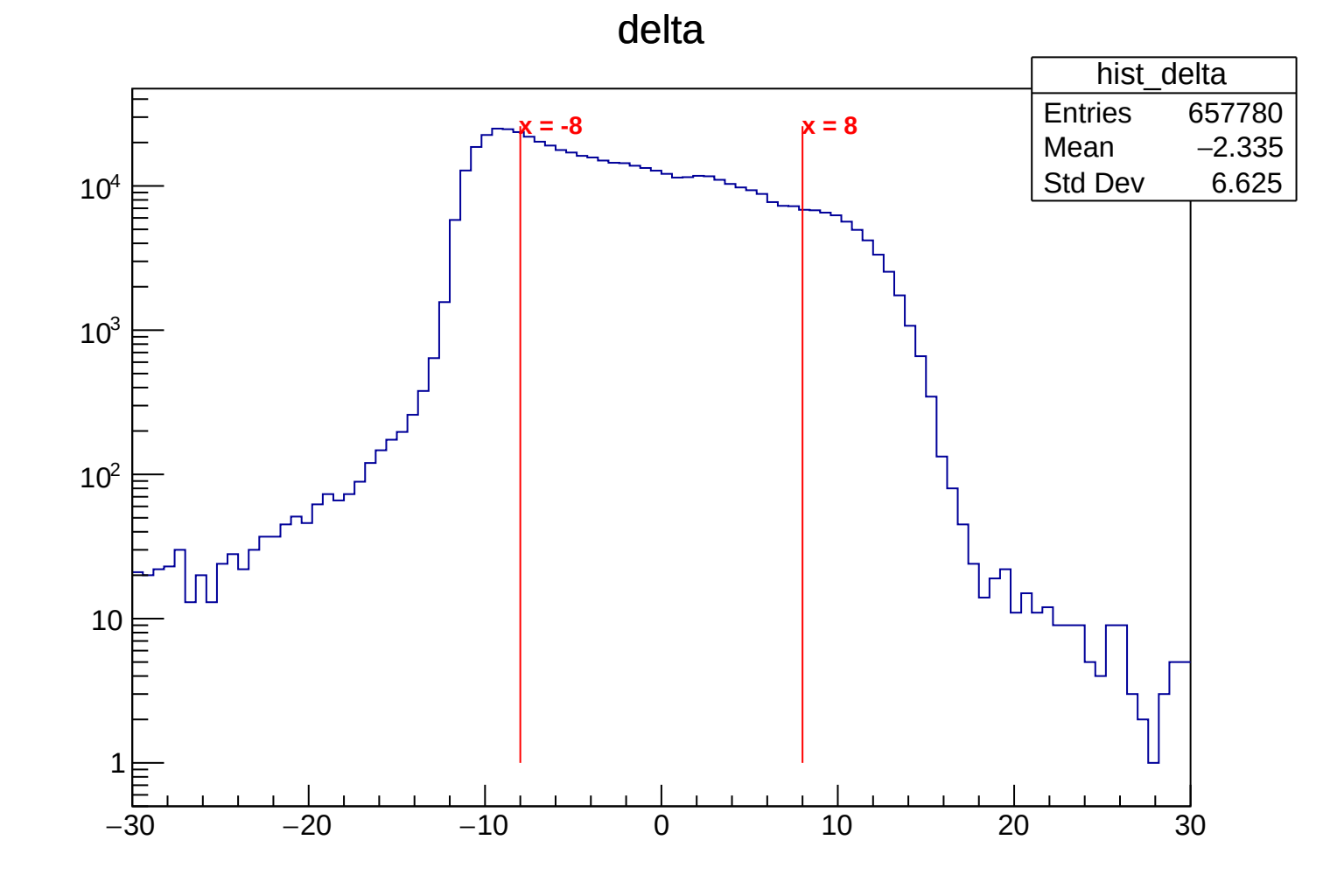
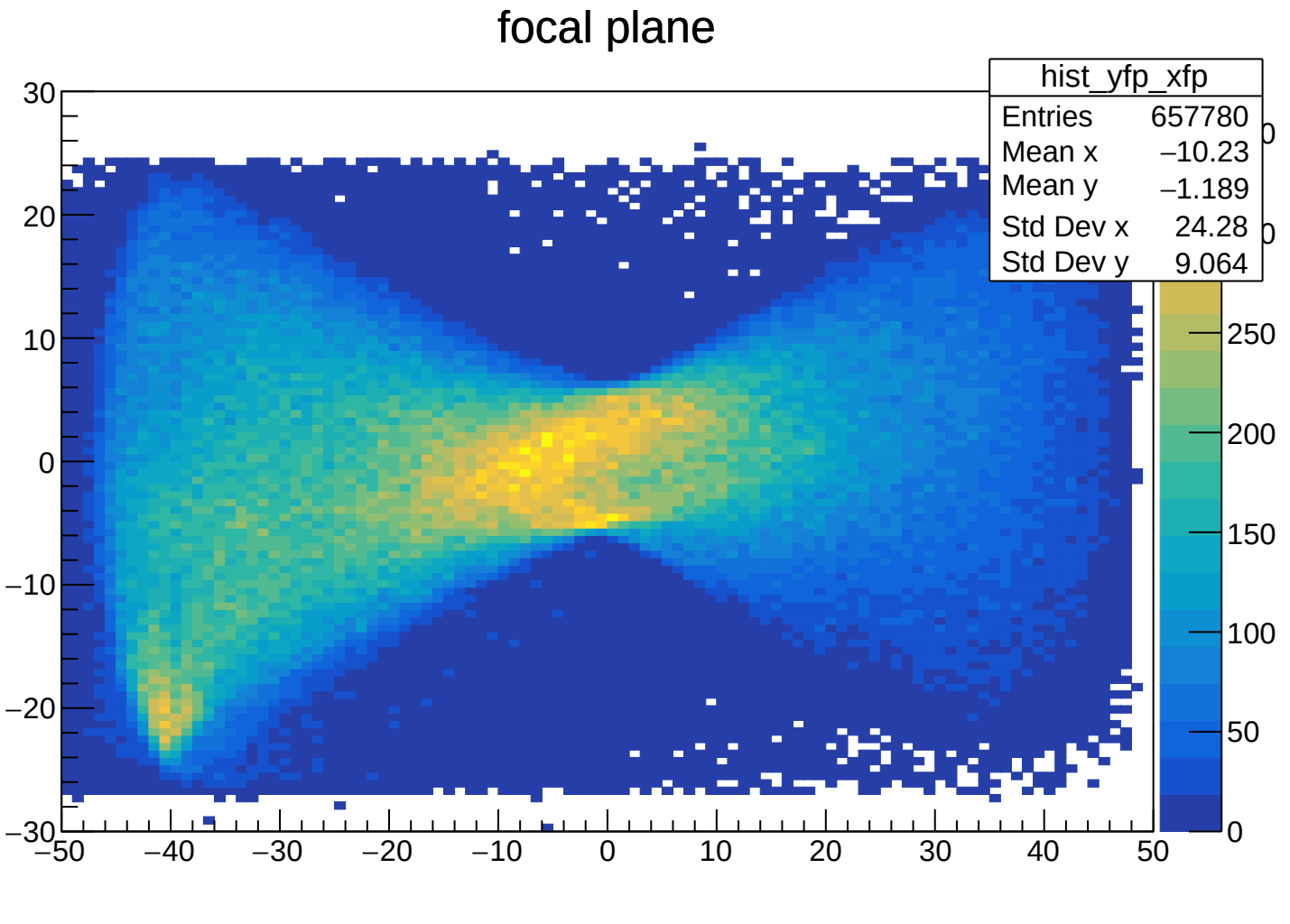
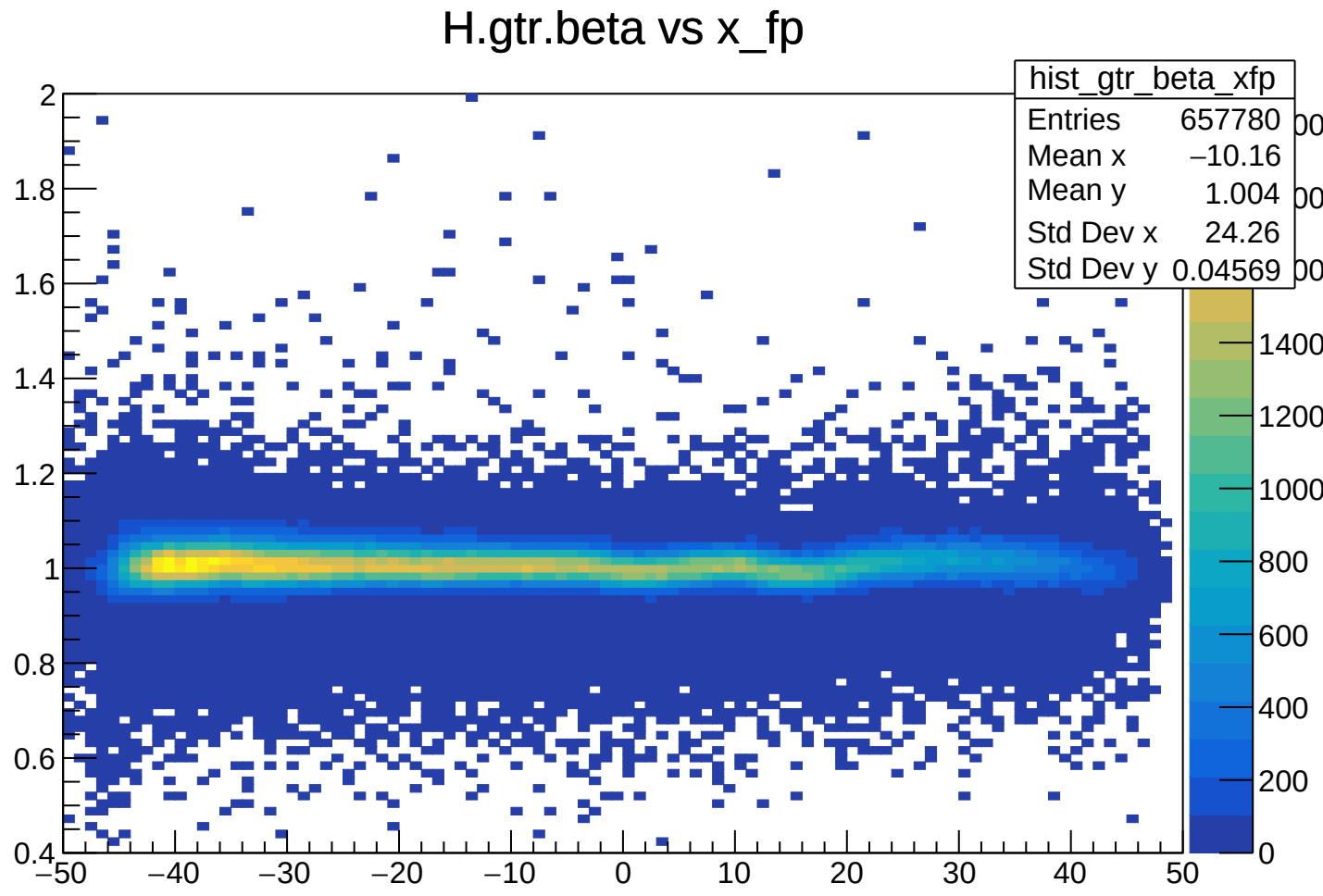

H.gtr.beta
Entries
Beta
Mean (no cuts) = 1.0072 ± 0.0000
Sigma (no cuts) = 0.0312 ± 0.0000
Mean (PID) = 1.0091 ± 0.0001
Sigma (PID) = 0.0290 ± 0.0001
Mean (PID & delta) = 1.0067 ± 0.0001
Sigma (PID & delta) = 0.0267 ± 0.0001
H.gtr.beta without cuts
Fit: H.gtr.beta without cuts
H.gtr.beta with PID cuts
Fit: H.gtr.beta with PID cuts
H.gtr.beta with PID and delta cuts
Fit: H.gtr.beta with PID and delta cuts

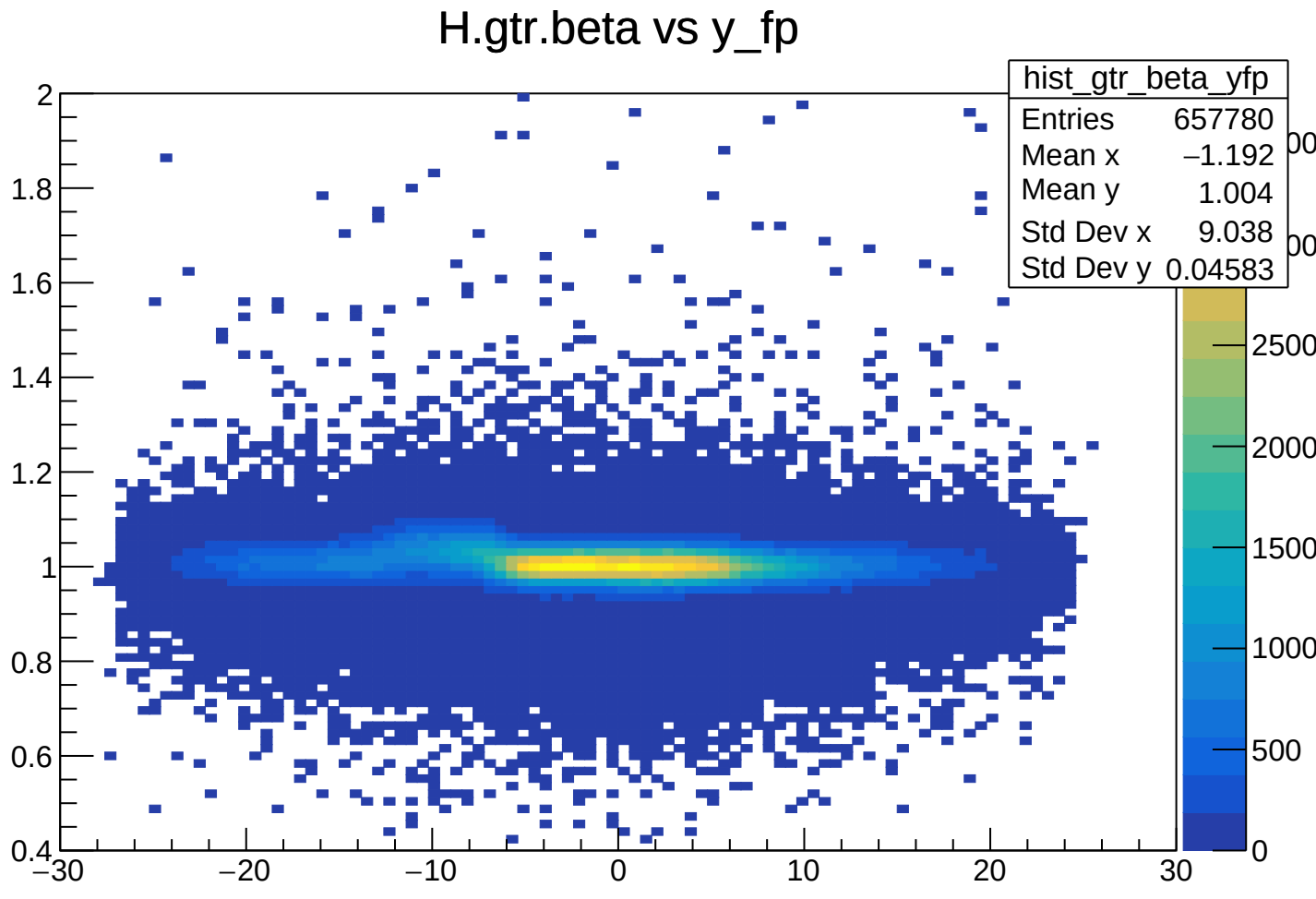

etottracknorm
hist_etottracknorm
Entries 657780
Mean 0.4321
Std Dev 0.3427
x = 0.7
10^5
10^4
10^3
10^2
10
1
0
1
2
3
4
5
6
7
8

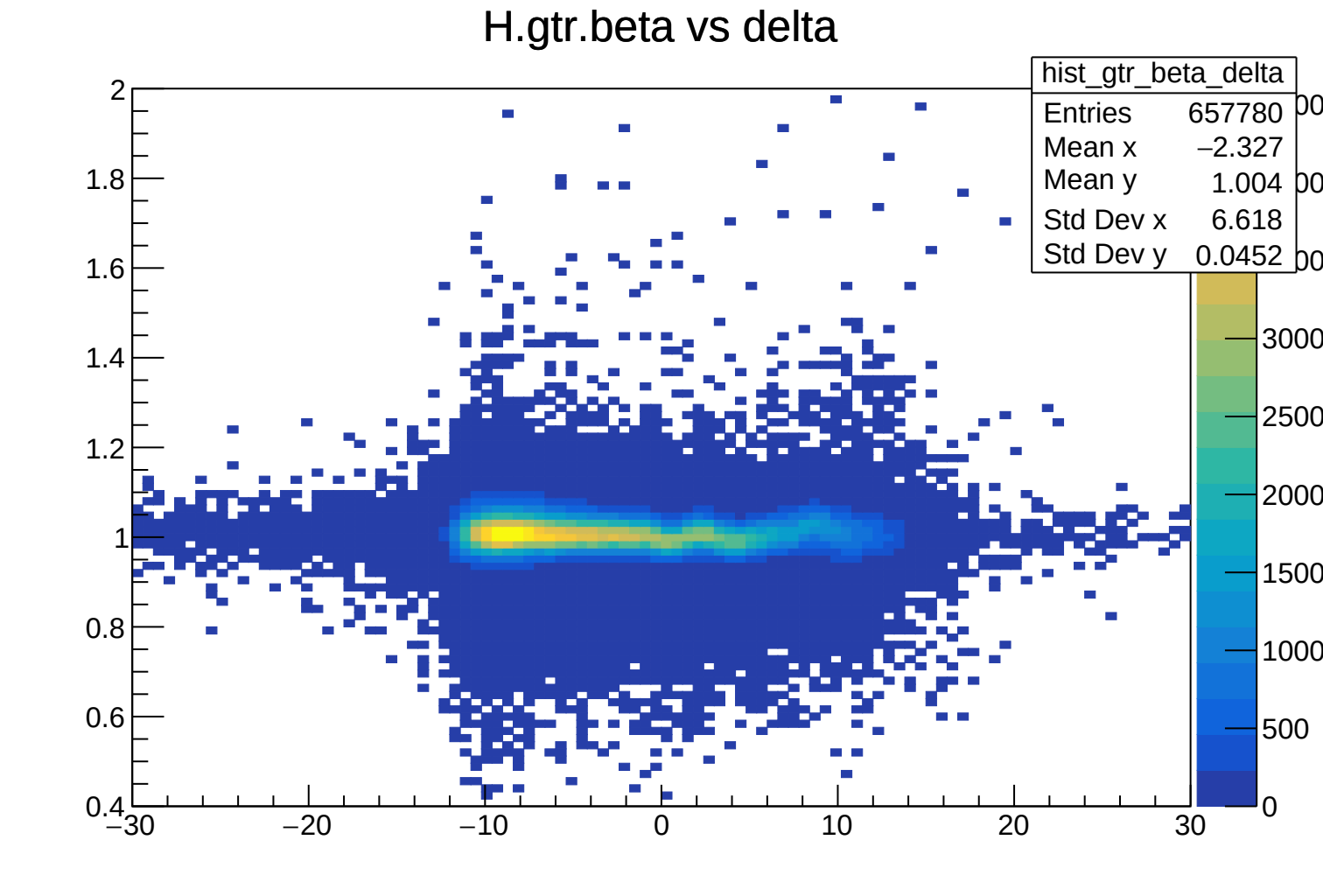

npeSum
hist_npeSum
Entries 657780
Mean 3.172
Std Dev 5.393
x = 0.7
10^5
10^4
10^3
10^2
10
1
0
10
20
30
40
50
60
70

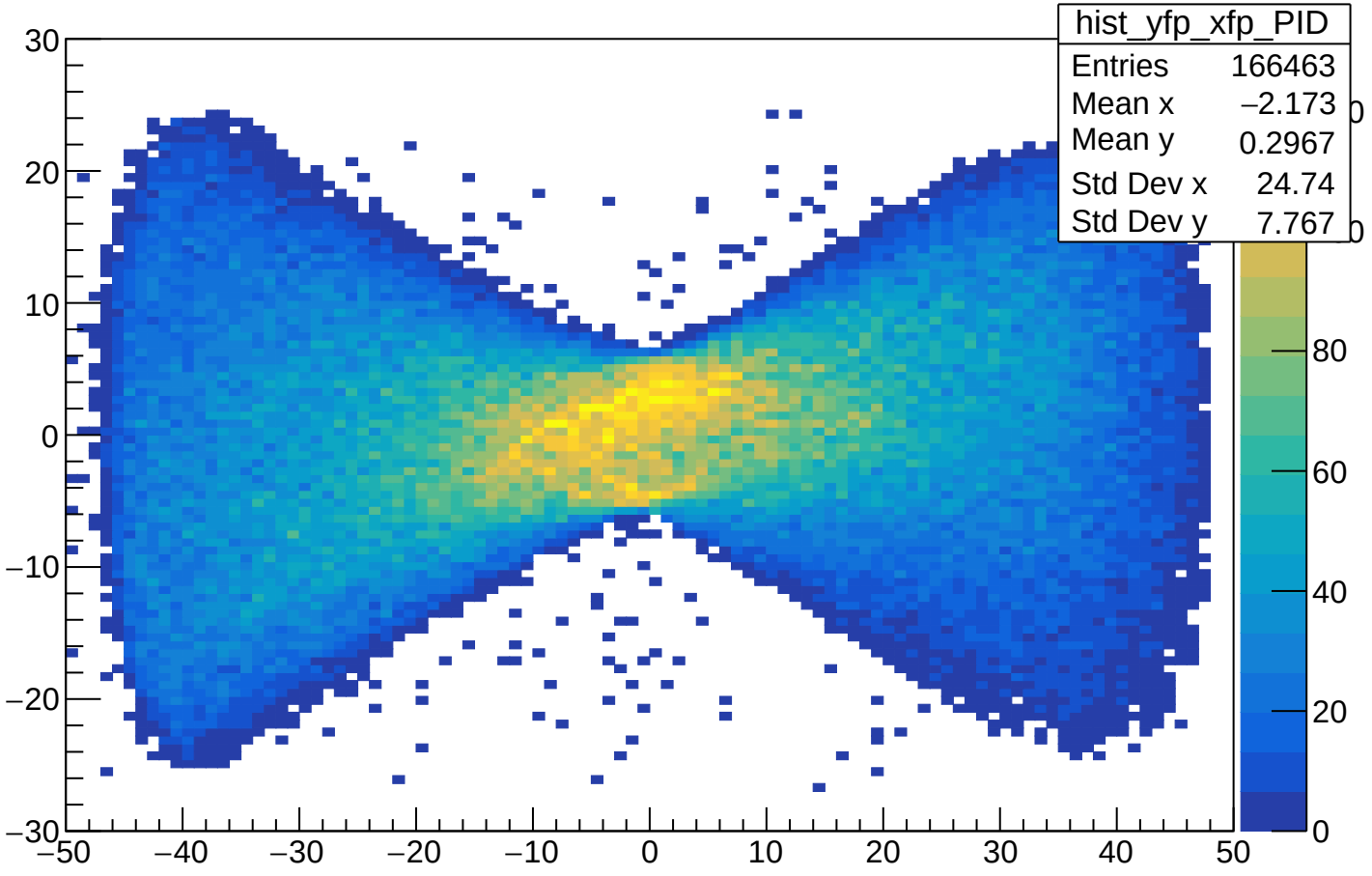

delta
hist_delta
Entries 657780
Mean −2.335
Std Dev 6.625
x = -8
x = 8
10^4
10^3
10^2
10
1
−30
−20
−10
0
10
20
30

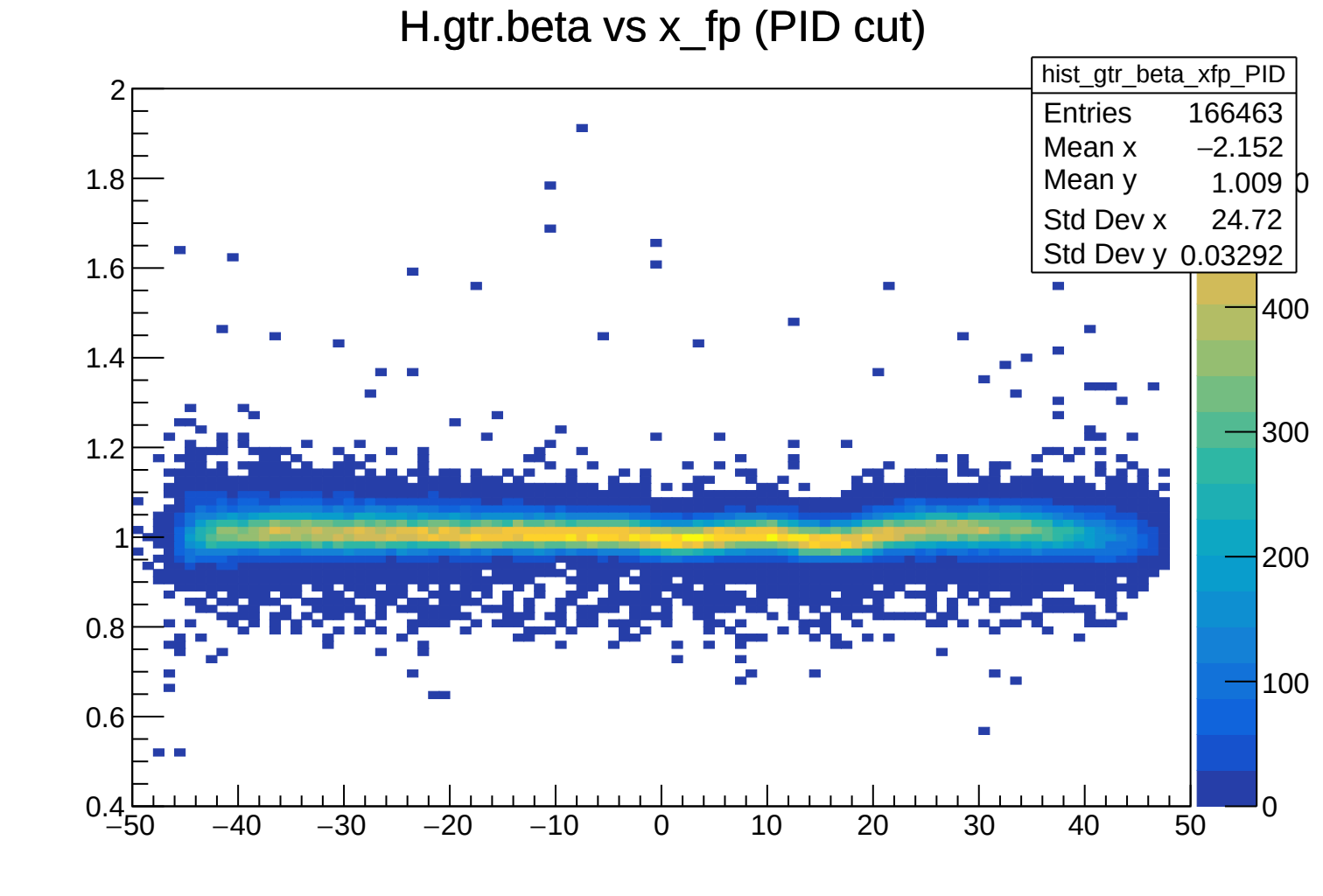

focal plane
hist_yfp_xfp
Entries 657780
Mean x −10.23
Mean y −1.189
Std Dev x 24.28
Std Dev y 9.064
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
250
200
150
100
50
0

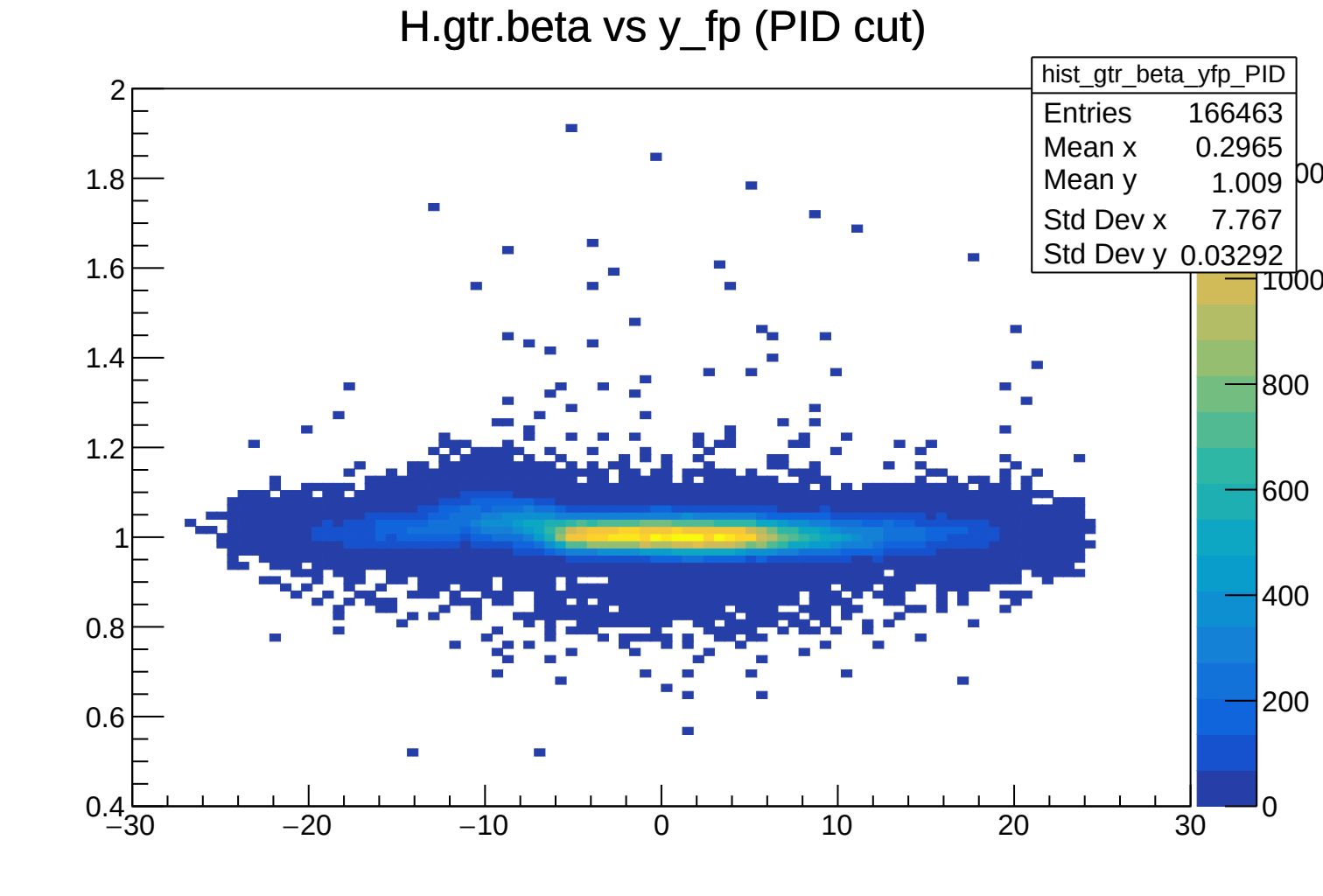

H.gtr.beta vs x_fp
hist_gtr_beta_xfp
Entries 657780
Mean x −10.16
Mean y 1.004
Std Dev x 24.26
Std Dev y 0.04569
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−50
−40
−30
−20
−10
0
10
20
30
40
50
1400
1200
1000
800
600
400
200
0

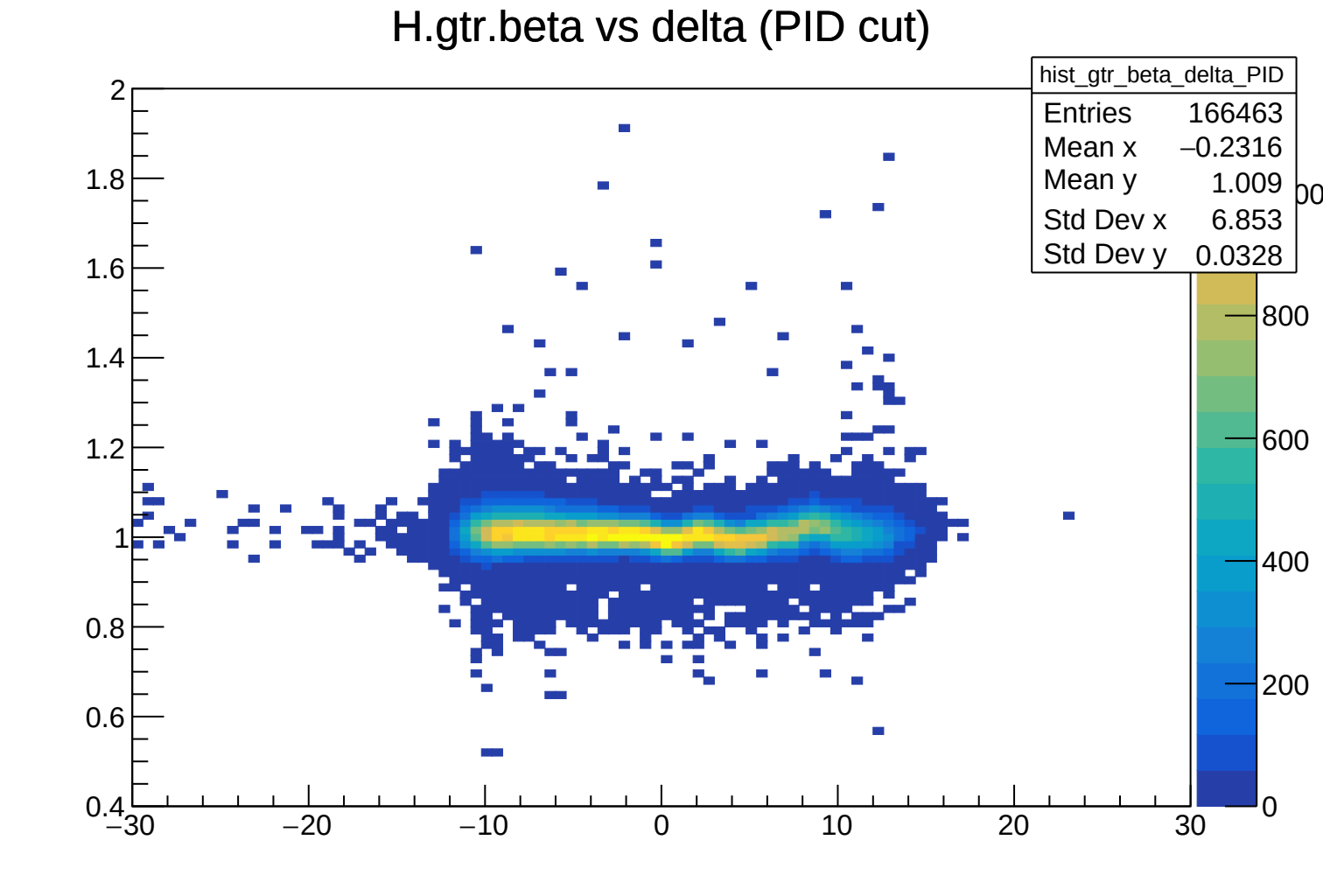

H.gtr.beta vs y_fp
hist_gtr_beta_yfp
Entries 657780
Mean x −1.192
Mean y 1.004
Std Dev x 9.038
Std Dev y 0.04583
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
2500
2000
1500
1000
500
0

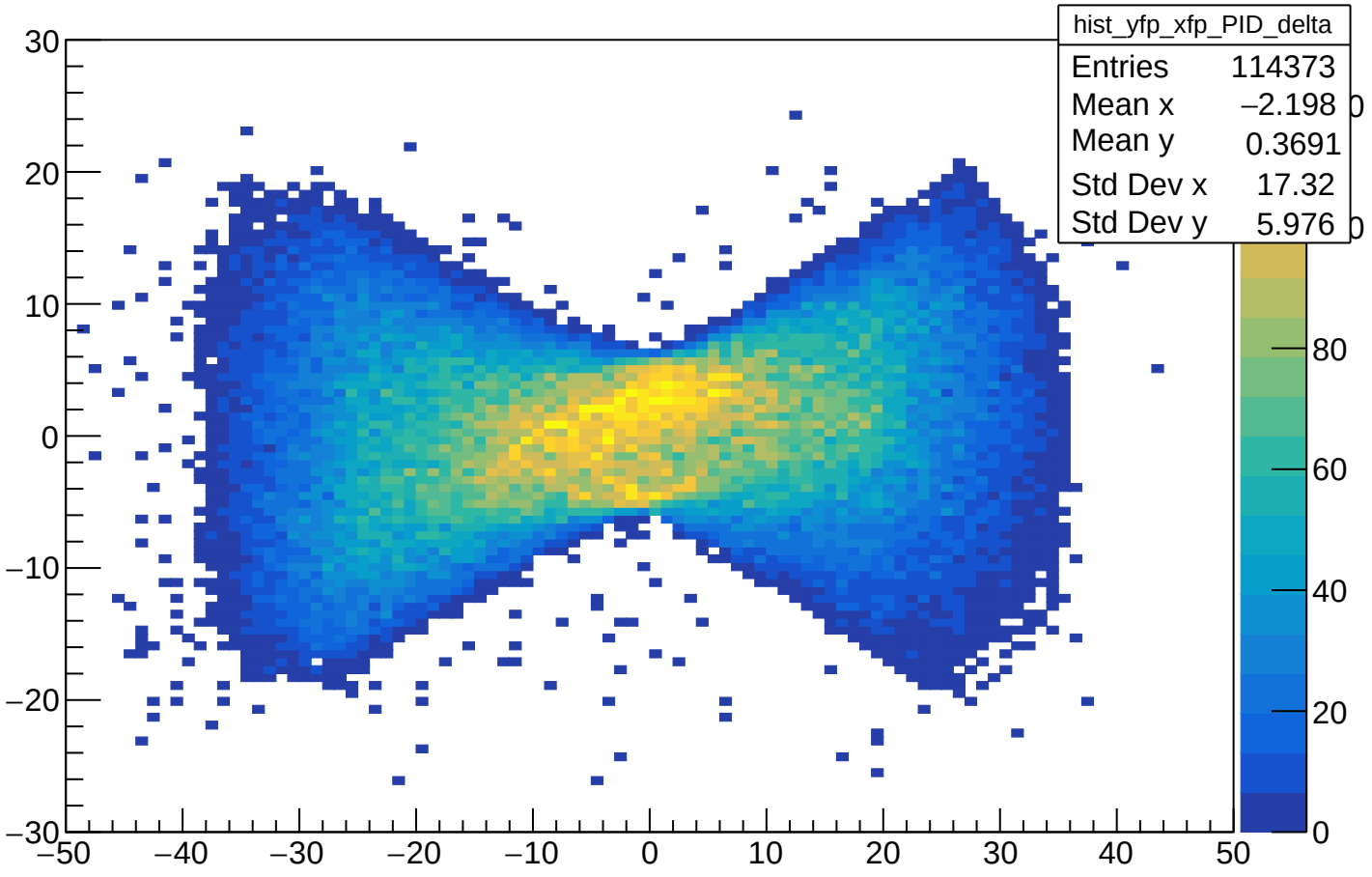

H.gtr.beta vs delta
hist_gtr_beta_delta
Entries 657780
Mean x −2.327
Mean y 1.004
Std Dev x 6.618
Std Dev y 0.0452
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
3000
2500
2000
1500
1000
500
0

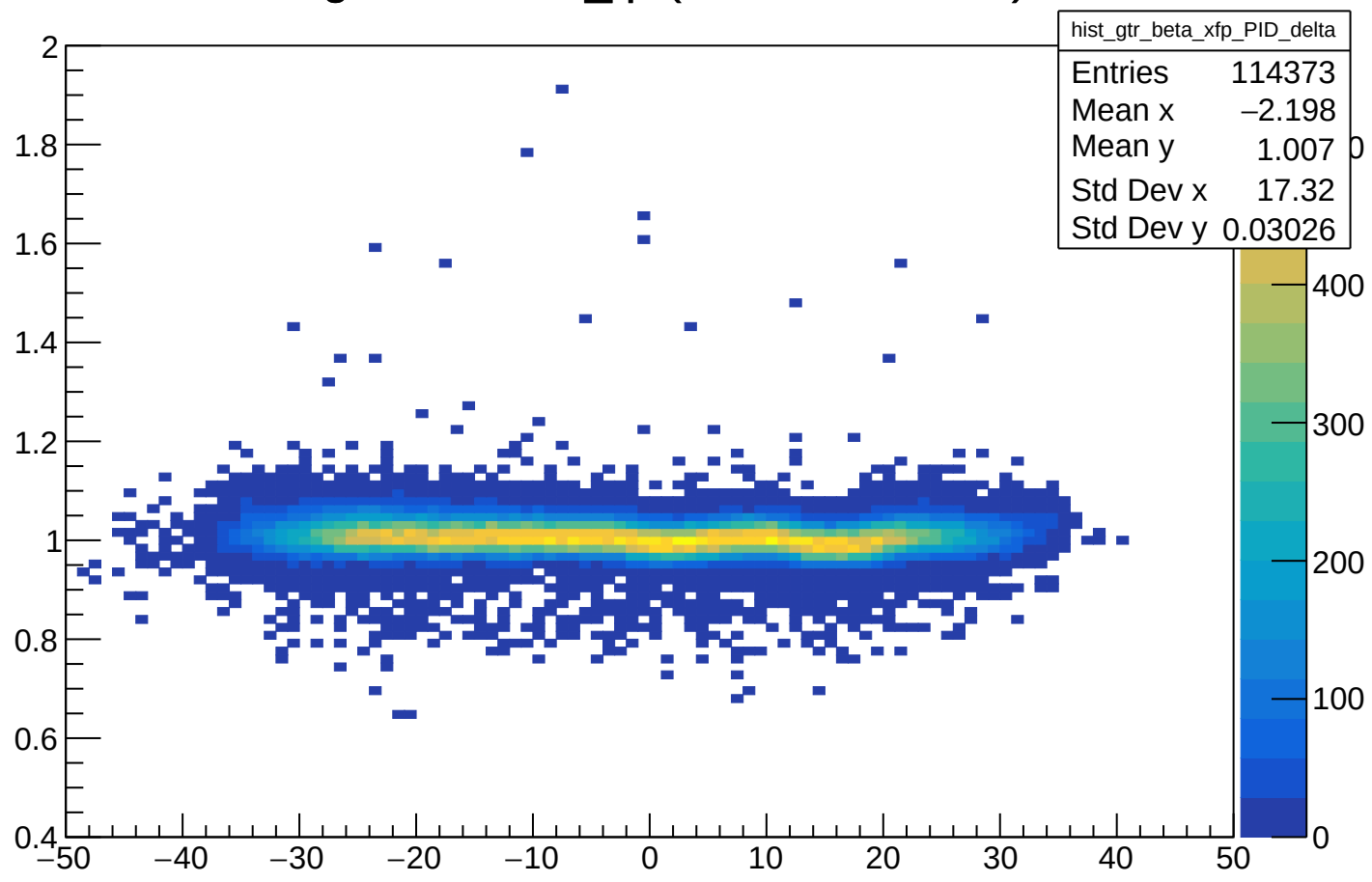

focal plane (PID cut)
hist_yfp_xfp_PID
Entries 166463
Mean x −2.173
Mean y 0.2967
Std Dev x 24.74
Std Dev y 7.767
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
80
60
40
20
0

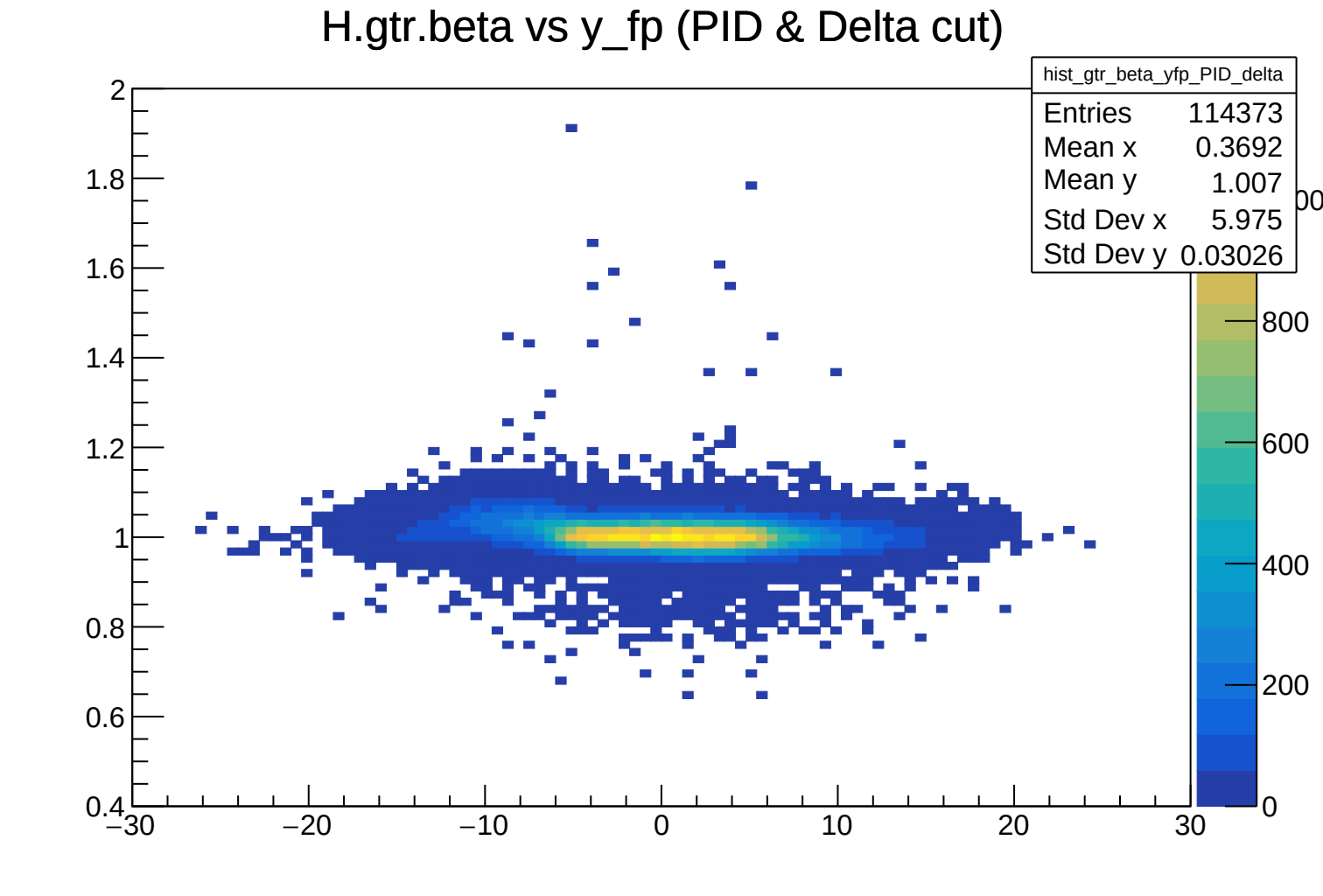

H.gtr.beta vs x_fp (PID cut)
hist_gtr_beta_xfp_PID
Entries 166463
Mean x −2.152
Mean y 1.009
Std Dev x 24.72
Std Dev y 0.03292
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−50
−40
−30
−20
−10
0
10
20
30
40
50
400
300
200
100
0

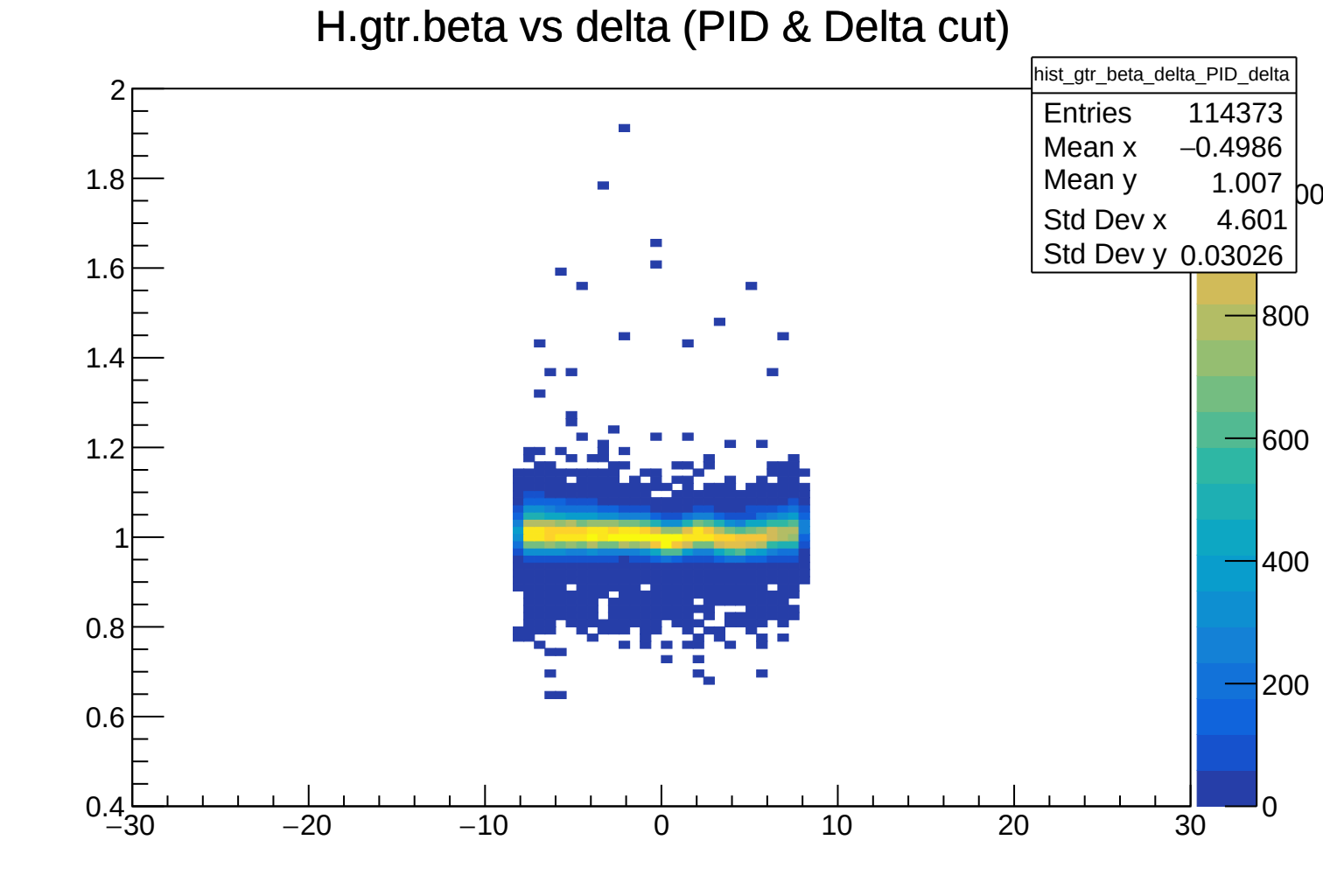

H.gtr.beta vs y_fp (PID cut)
hist_gtr_beta_yfp_PID
Entries 166463
Mean x 0.2965
Mean y 1.009
Std Dev x 7.767
Std Dev y 0.03292
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
1000
800
600
400
200
0


H.gtr.beta vs delta (PID cut)
hist_gtr_beta_delta_PID
Entries 166463
Mean x −0.2316
Mean y 1.009
Std Dev x 6.853
Std Dev y 0.0328
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
800
600
400
200
0


focal plane (PID & Delta cut)
hist_yfp_xfp_PID_delta
Entries 114373
Mean x −2.198
Mean y 0.3691
Std Dev x 17.32
Std Dev y 5.976
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
80
60
40
20
0


H.gtr.beta vs x_fp (PID & Delta cut)
hist_gtr_beta_xfp_PID_delta
Entries 114373
Mean x −2.198
Mean y 1.007
Std Dev x 17.32
Std Dev y 0.03026
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
400
300
200
100
0


H.gtr.beta vs y_fp (PID & Delta cut)
hist_gtr_beta_yfp_PID_delta
Entries 114373
Mean x 0.3692
Mean y 1.007
Std Dev x 5.975
Std Dev y 0.03026
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
800
600
400
200
0


H.gtr.beta vs delta (PID & Delta cut)
hist_gtr_beta_delta_PID_delta
Entries 114373
Mean x −0.4986
Mean y 1.007
Std Dev x 4.601
Std Dev y 0.03026
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
800
600
400
200
0