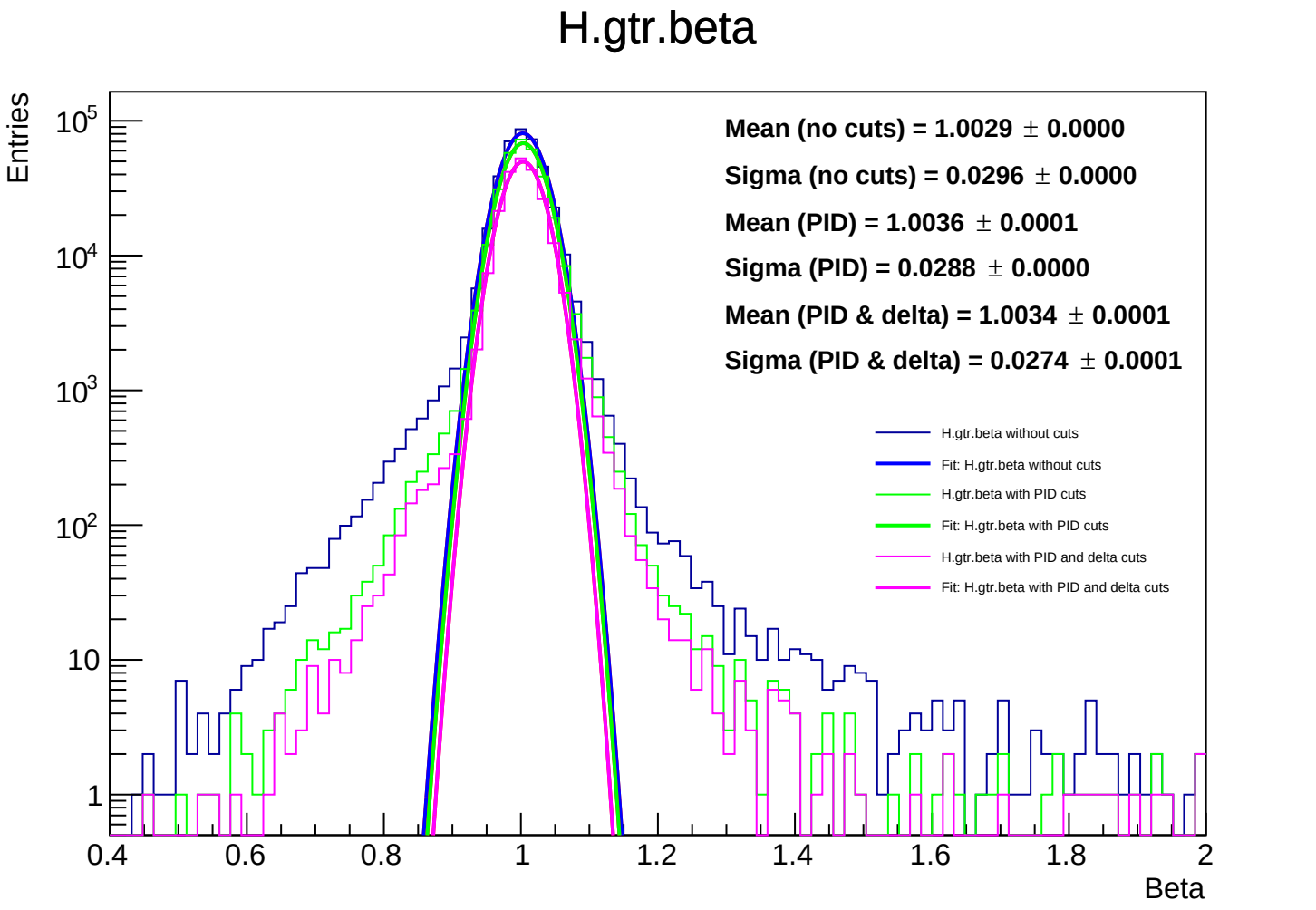
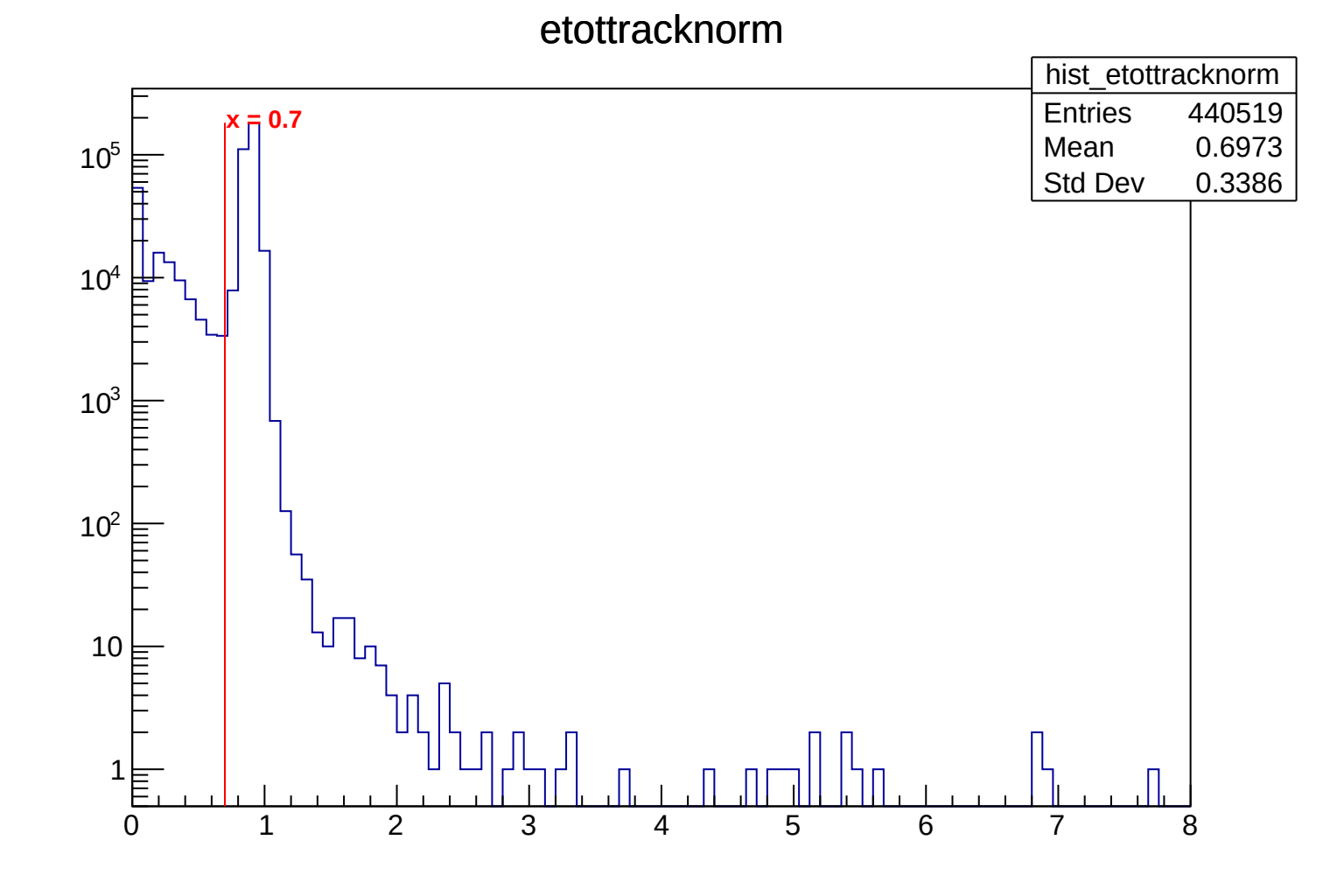
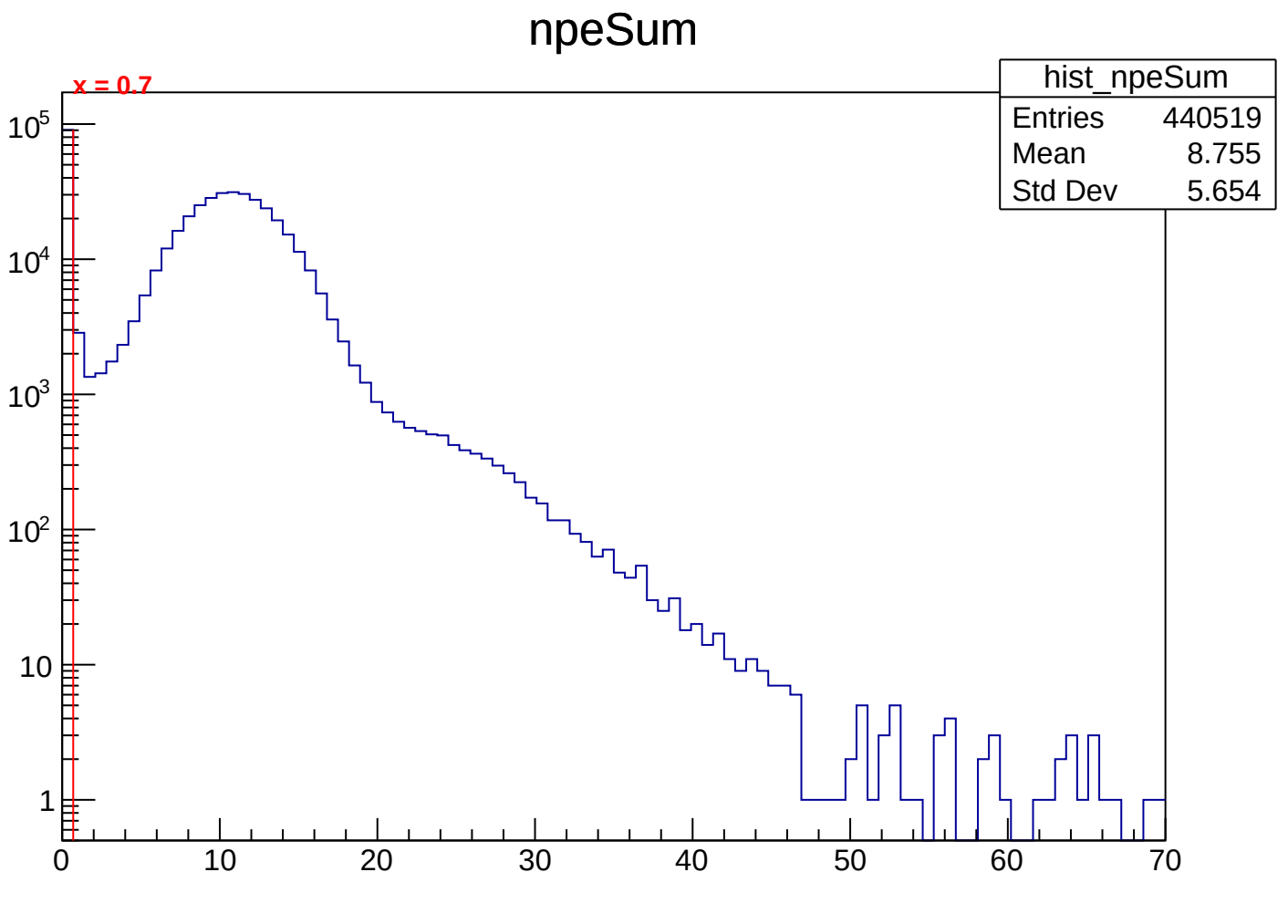
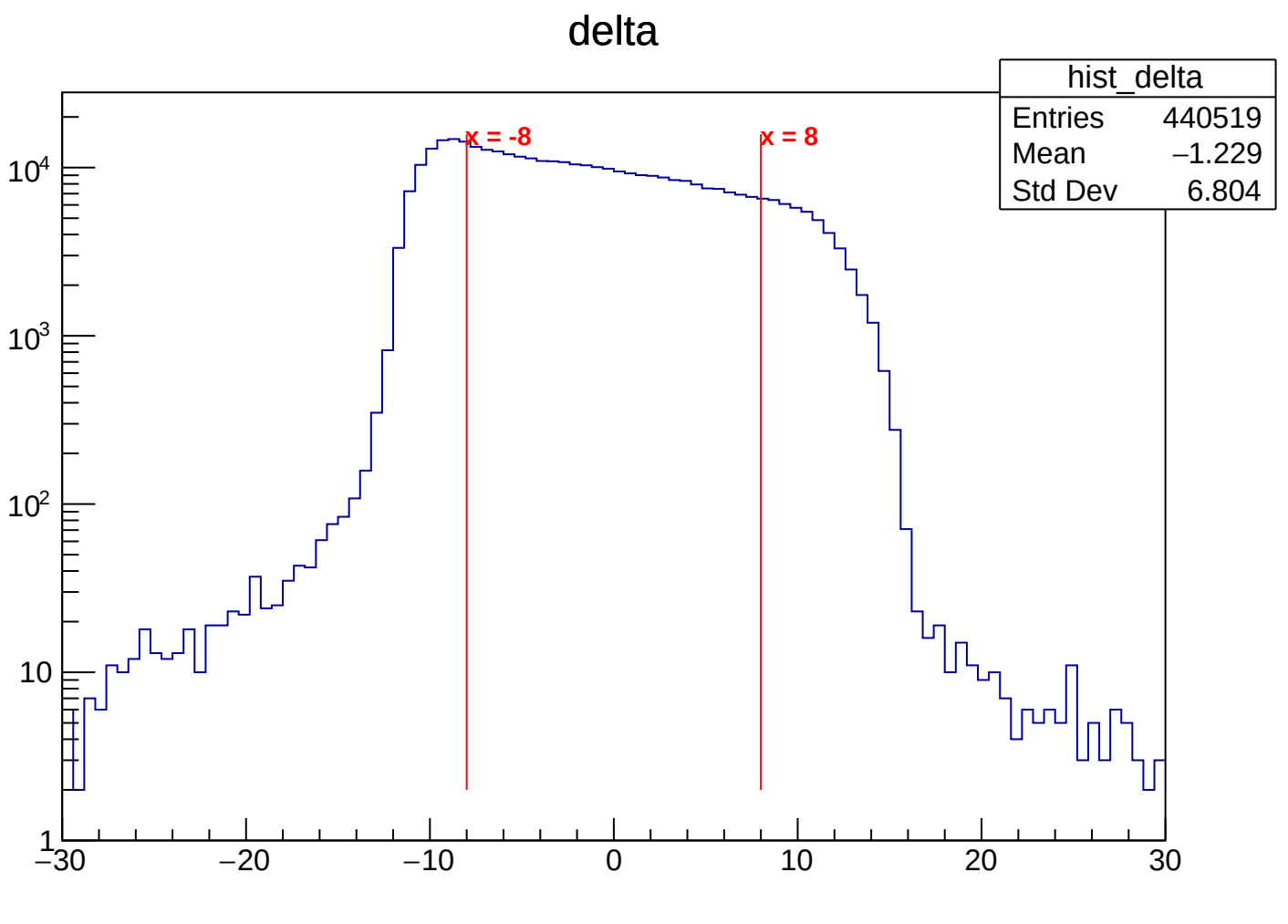
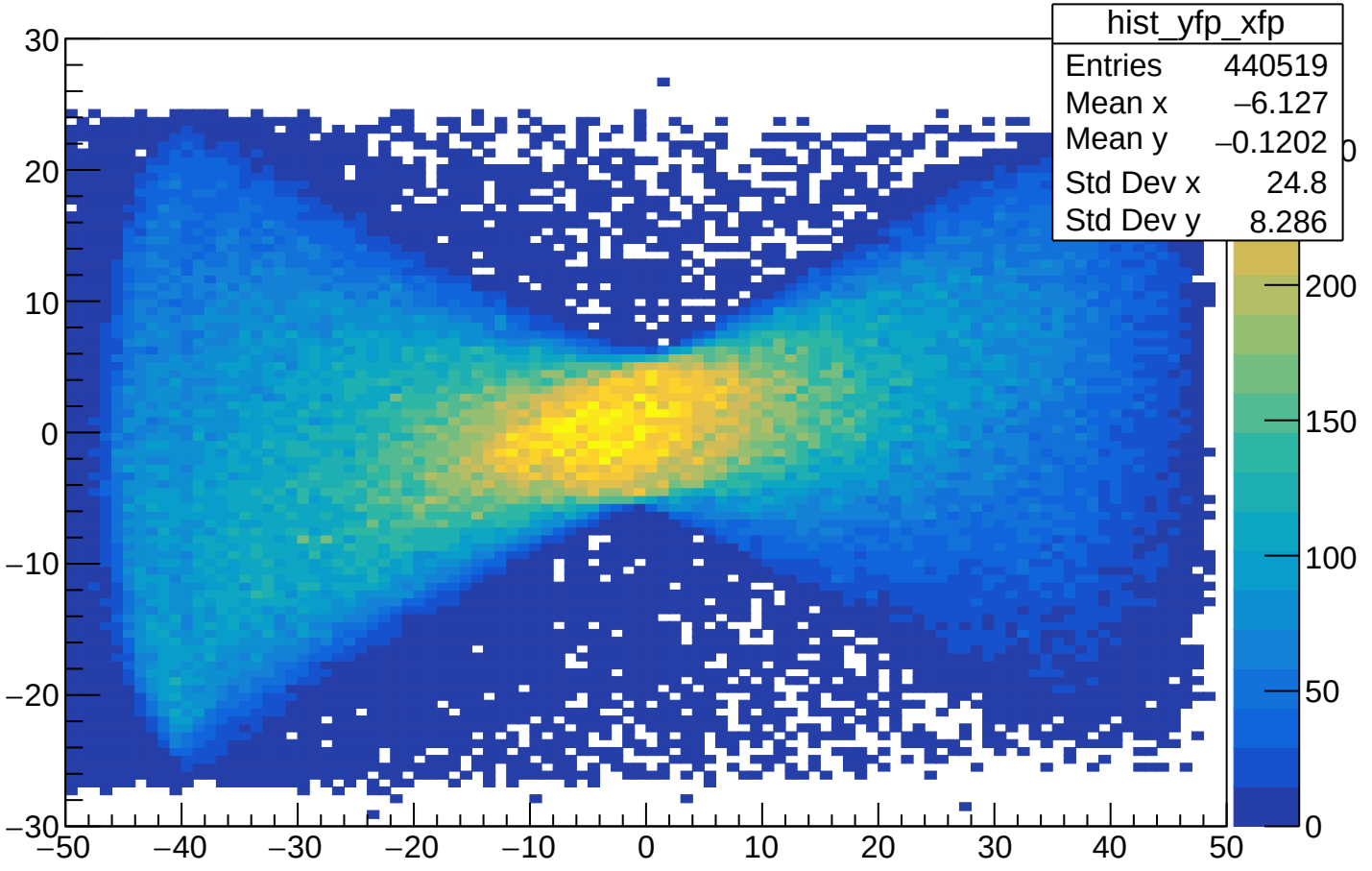
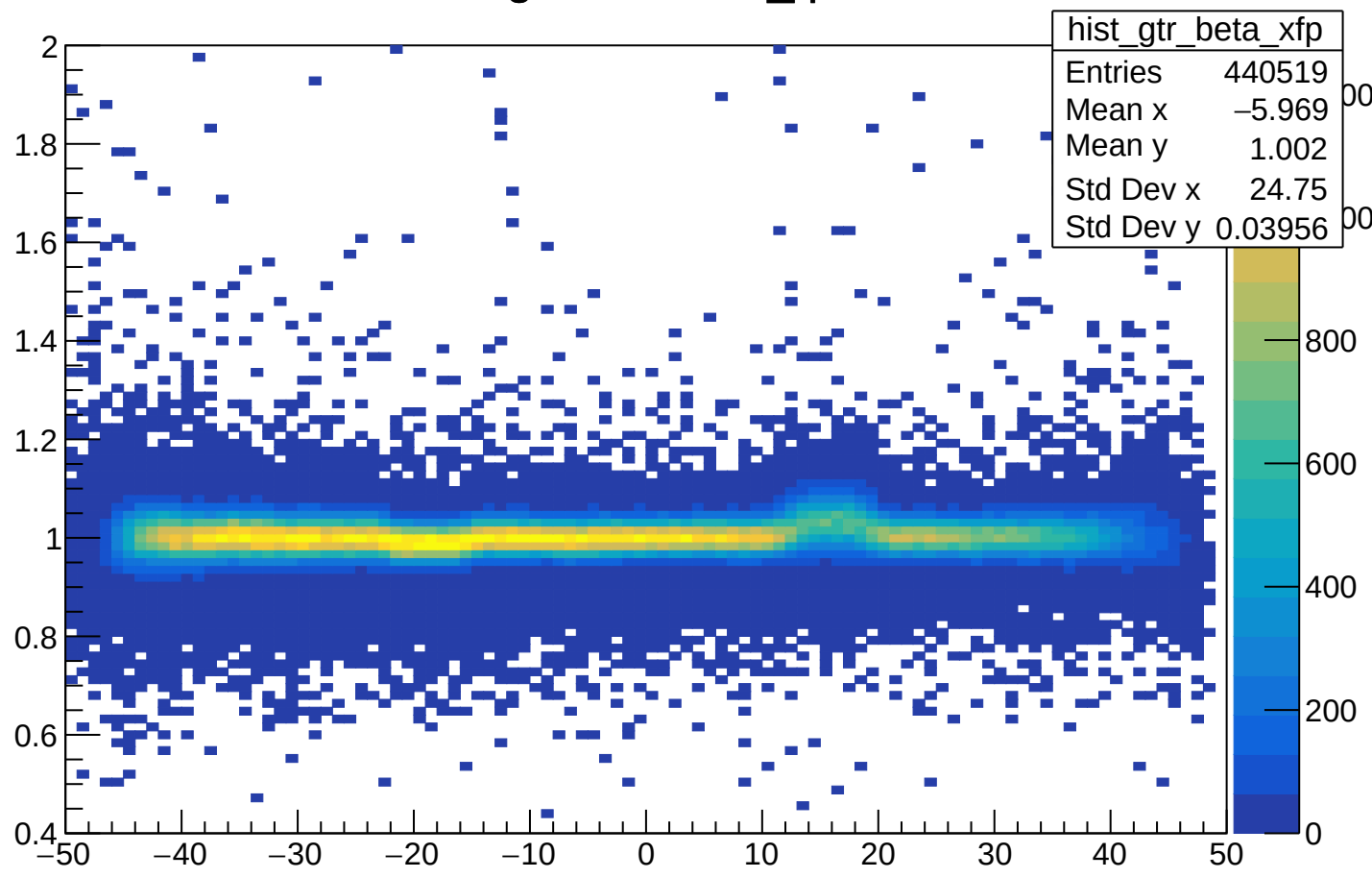

H.gtr.beta
Entries
Beta
Mean (no cuts) = 1.0029 ± 0.0000
Sigma (no cuts) = 0.0296 ± 0.0000
Mean (PID) = 1.0036 ± 0.0001
Sigma (PID) = 0.0288 ± 0.0000
Mean (PID & delta) = 1.0034 ± 0.0001
Sigma (PID & delta) = 0.0274 ± 0.0001
H.gtr.beta without cuts
Fit: H.gtr.beta without cuts
H.gtr.beta with PID cuts
Fit: H.gtr.beta with PID cuts
H.gtr.beta with PID and delta cuts
Fit: H.gtr.beta with PID and delta cuts

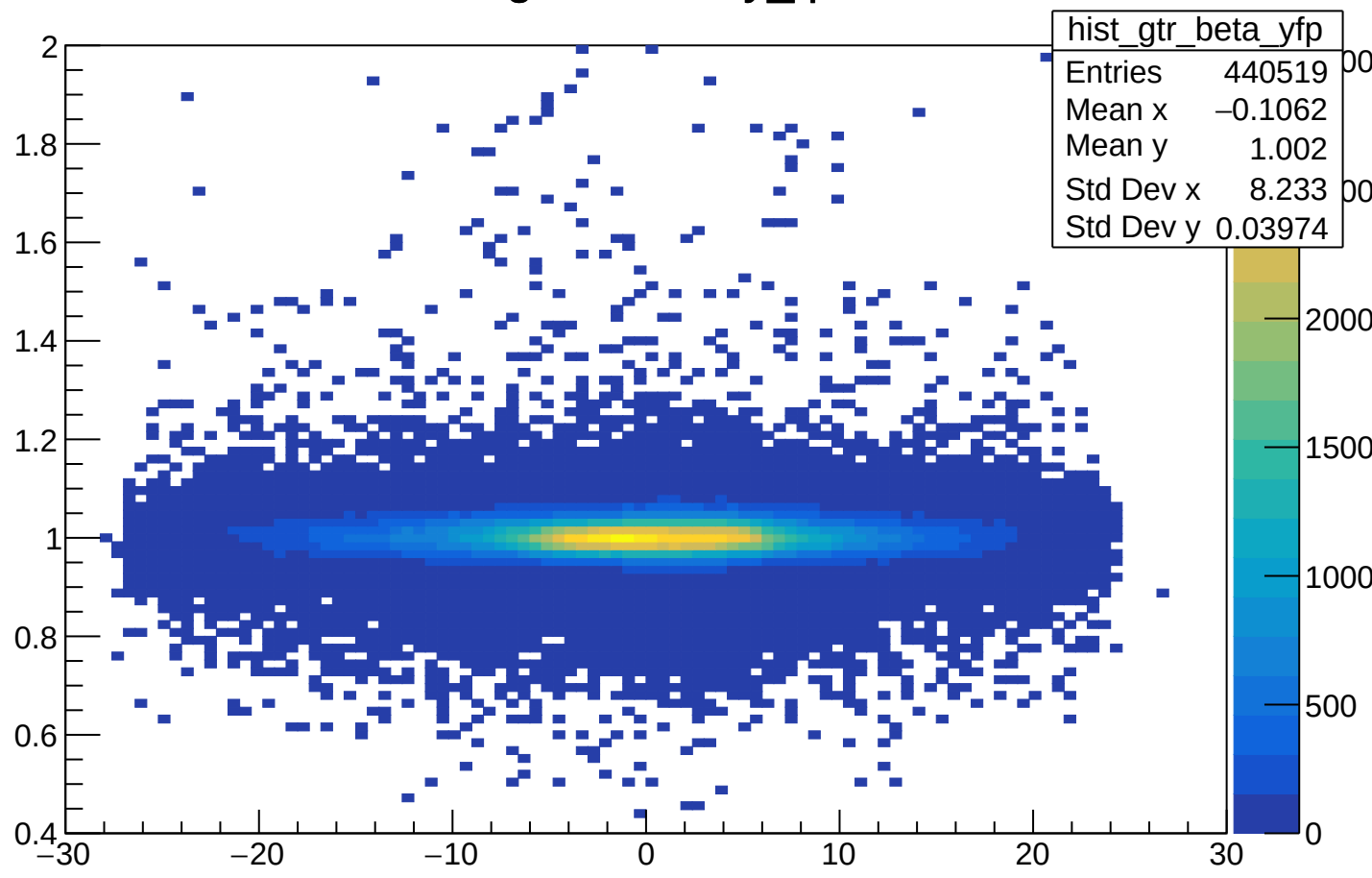

etottracknorm
hist_etottracknorm
Entries 440519
Mean 0.6973
Std Dev 0.3386
x = 0.7
10^5
10^4
10^3
10^2
10
1
0
1
2
3
4
5
6
7
8

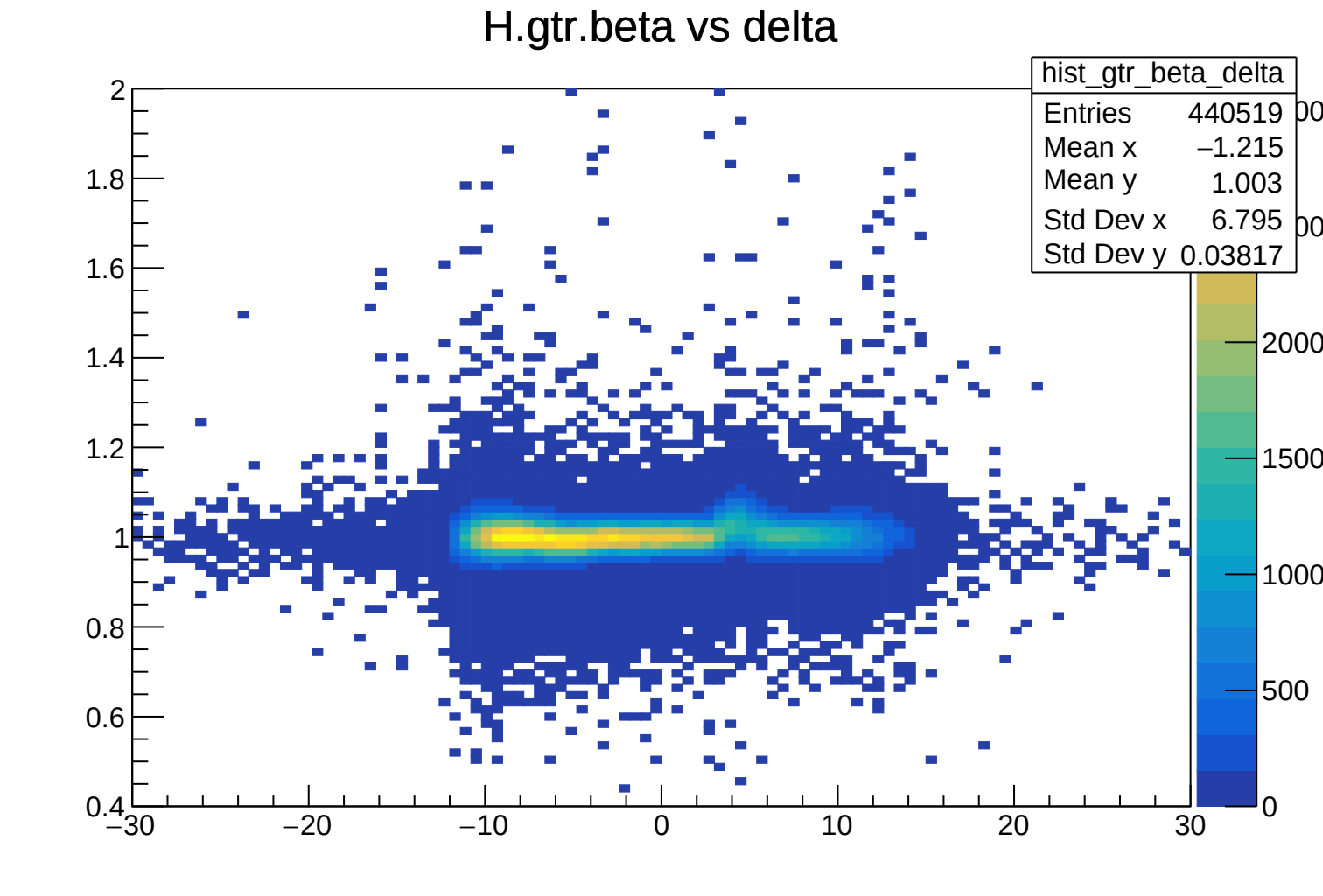

npeSum
x = 0.7
hist_npeSum
Entries 440519
Mean 8.755
Std Dev 5.654
10^5
10^4
10^3
10^2
10
1
0
10
20
30
40
50
60
70

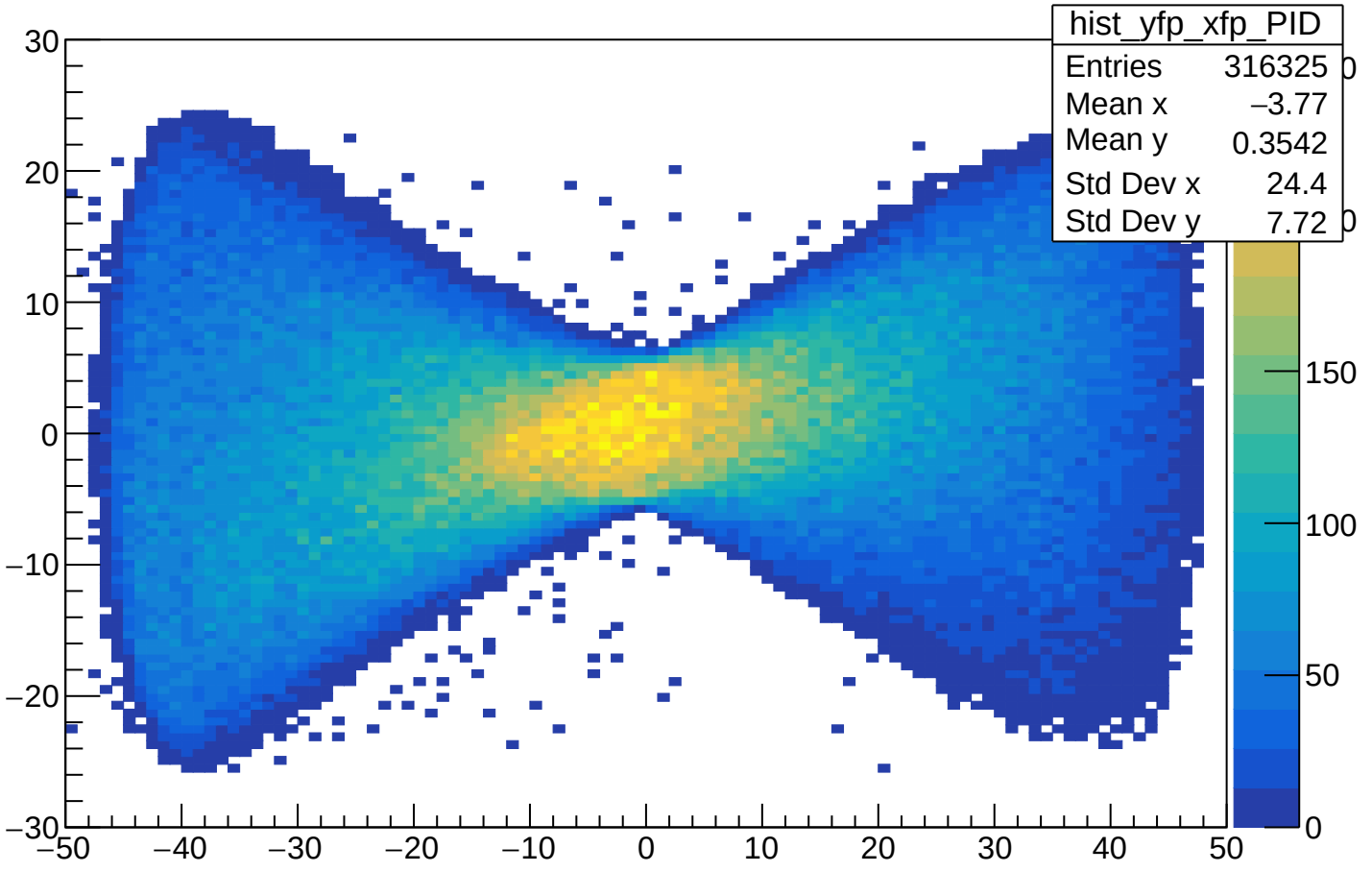

delta
hist_delta
Entries 440519
Mean −1.229
Std Dev 6.804
x = -8
x = 8
10^4
10^3
10^2
10
1
−30
−20
−10
0
10
20
30

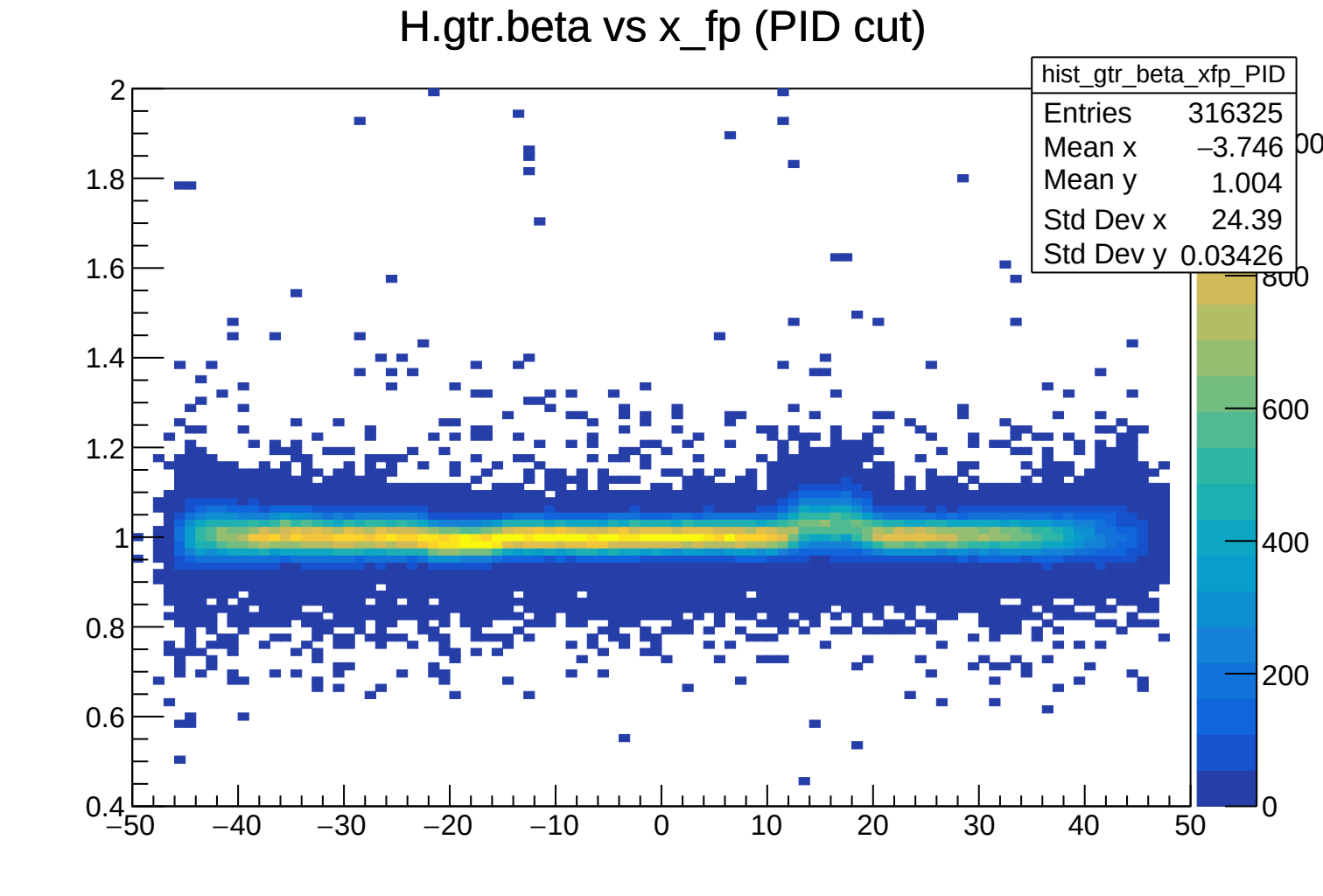

focal plane
hist_yfp_xfp
Entries 440519
Mean x −6.127
Mean y −0.1202
Std Dev x 24.8
Std Dev y 8.286
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
200
150
100
50
0

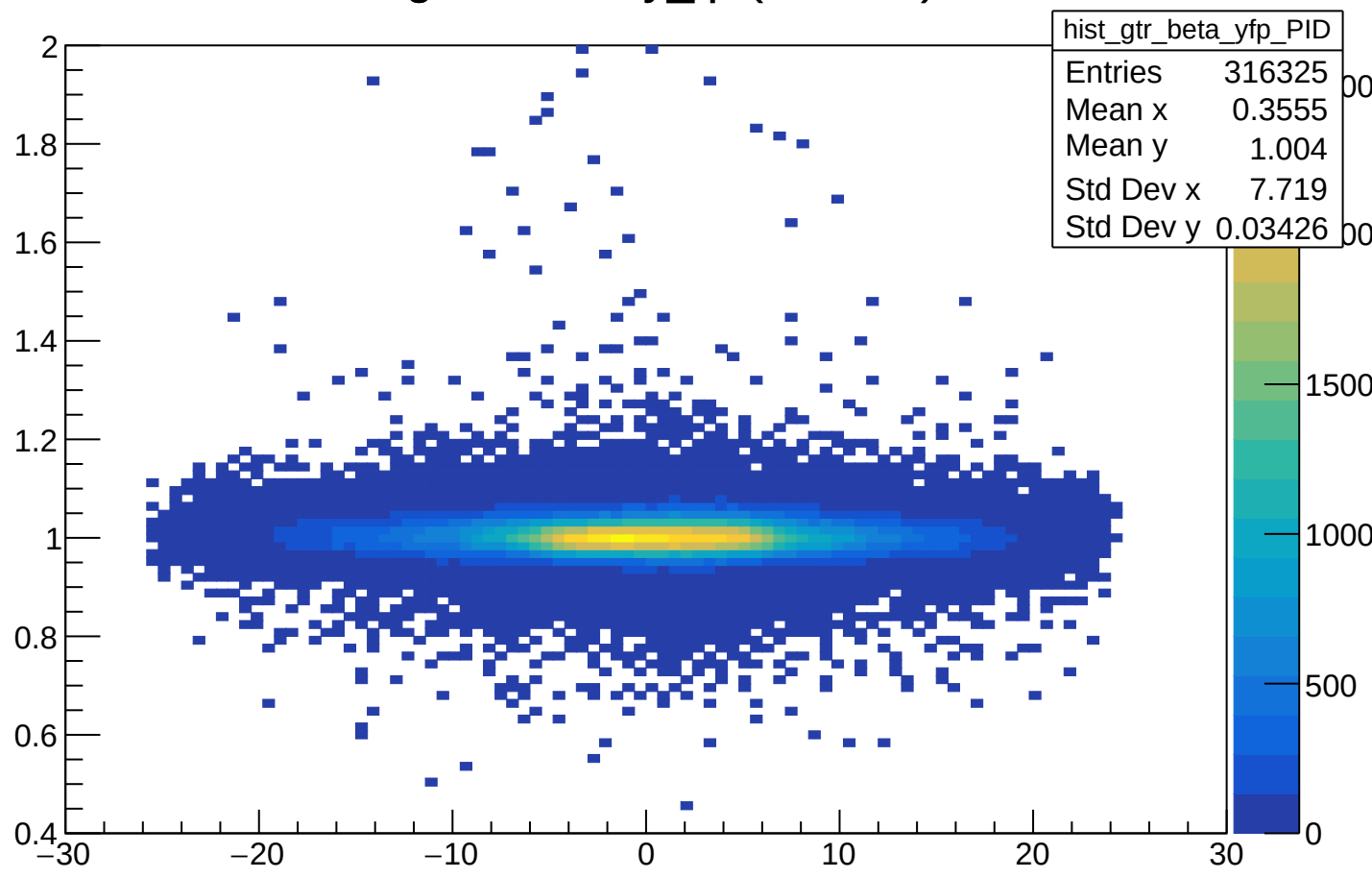

H.gtr.beta vs x_fp
hist_gtr_beta_xfp
Entries 440519
Mean x –5.969
Mean y 1.002
Std Dev x 24.75
Std Dev y 0.03956
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
–50
–40
–30
–20
–10
0
10
20
30
40
50
800
600
400
200
0

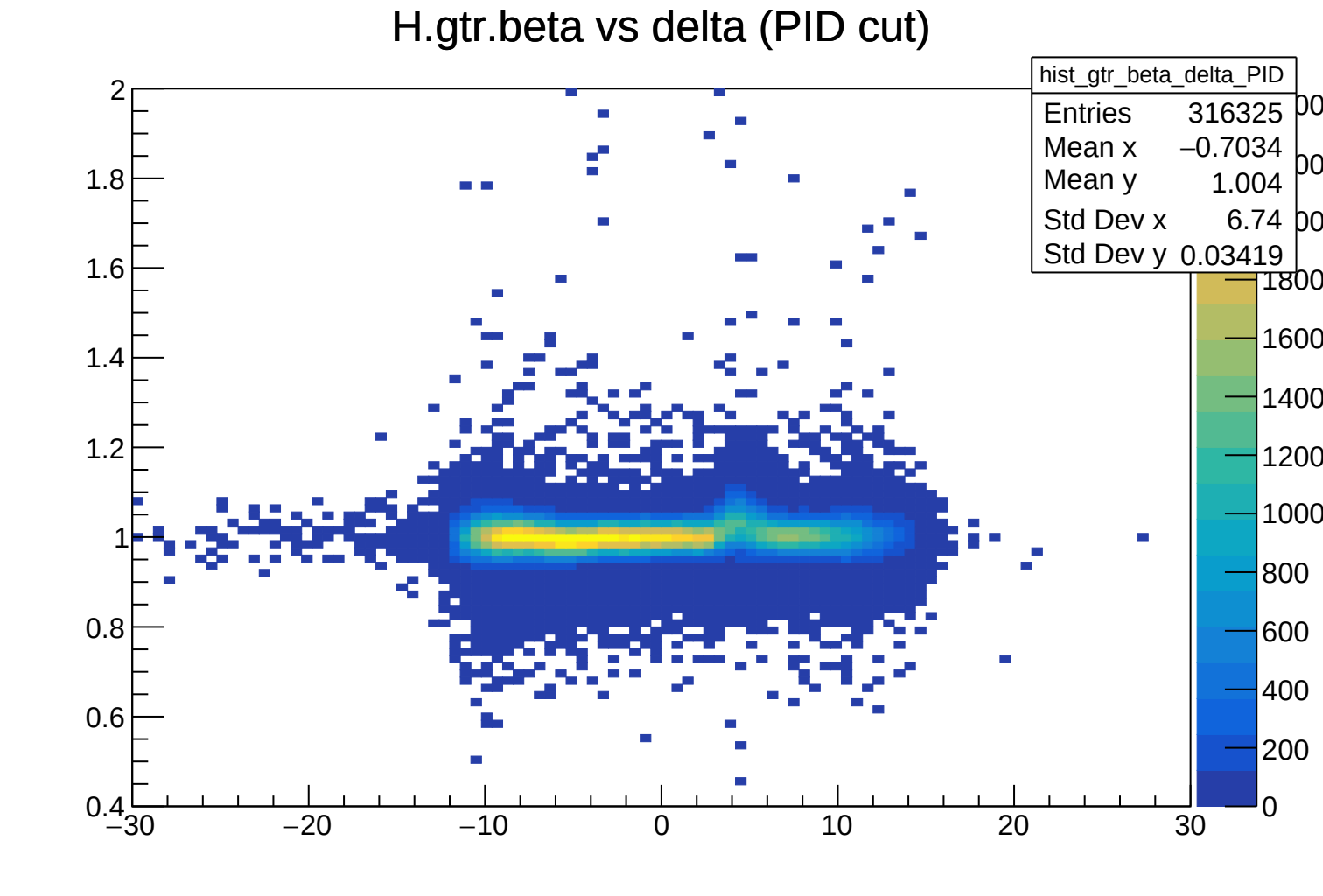

H.gtr.beta vs y_fp
hist_gtr_beta_yfp
Entries 440519
Mean x −0.1062
Mean y 1.002
Std Dev x 8.233
Std Dev y 0.03974
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
2000
1500
1000
500
0

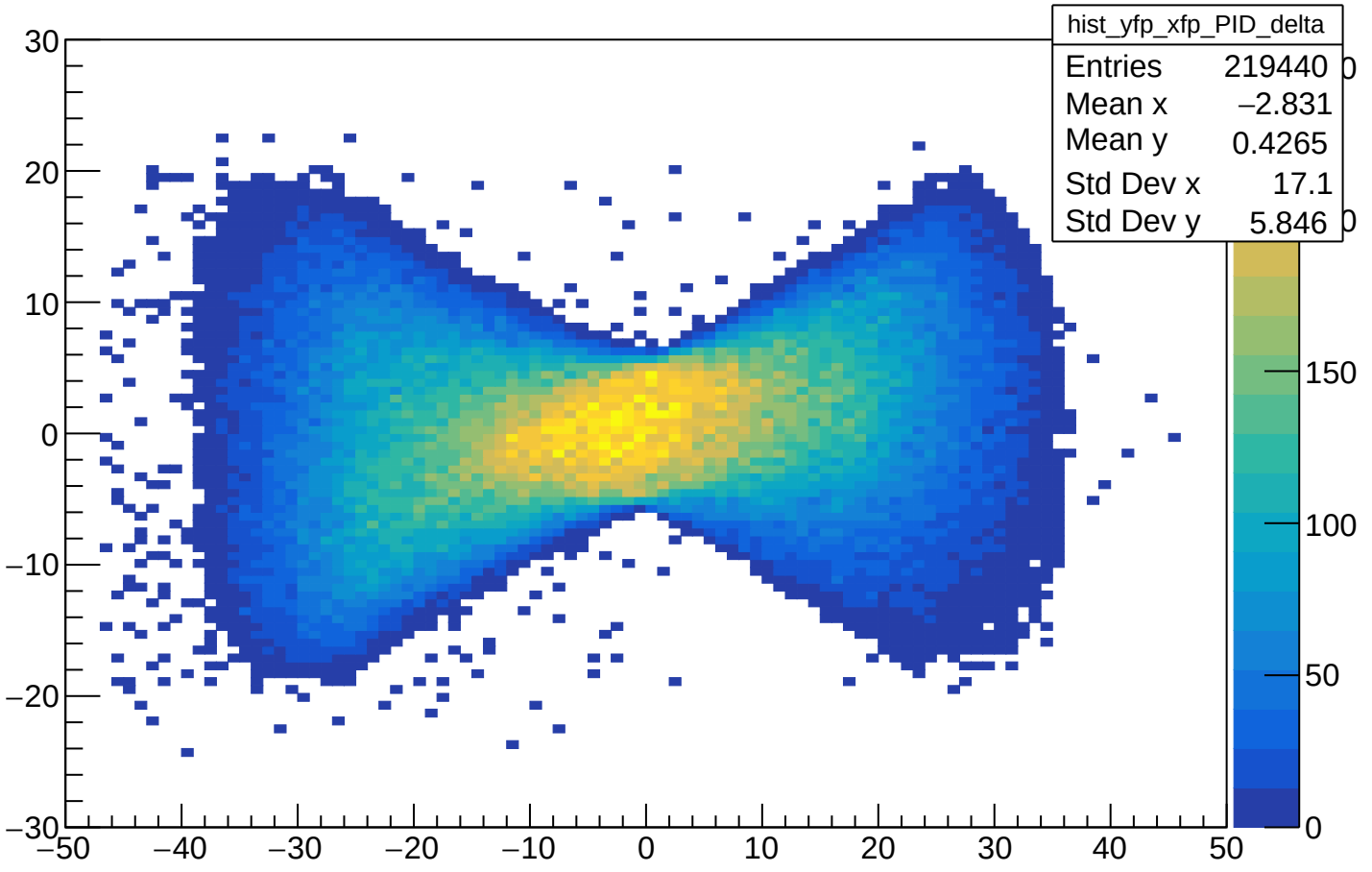

H.gtr.beta vs delta
hist_gtr_beta_delta
Entries 440519
Mean x −1.215
Mean y 1.003
Std Dev x 6.795
Std Dev y 0.03817
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
2000
1500
1000
500
0

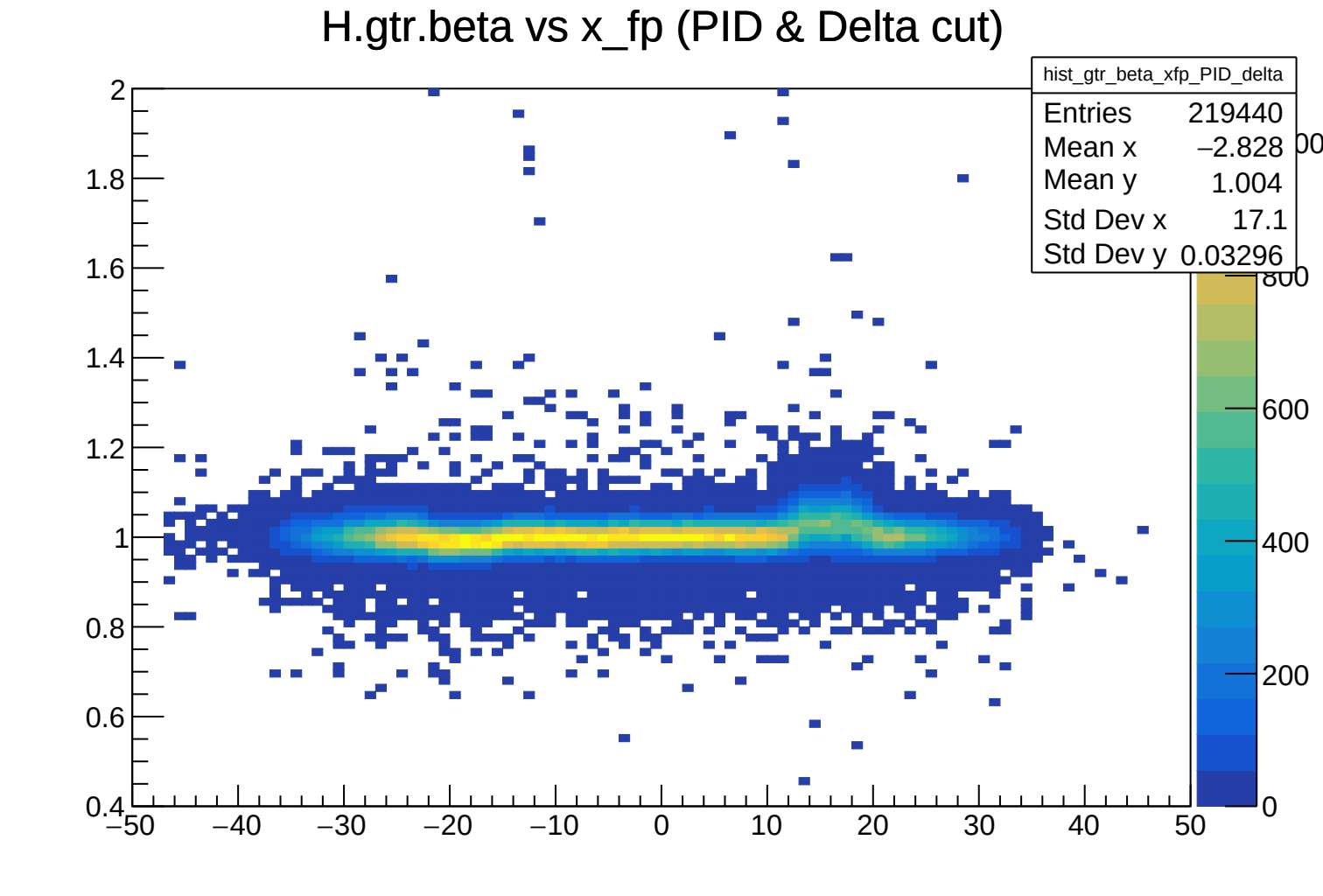

focal plane (PID cut)
hist_yfp_xfp_PID
Entries 316325
Mean x −3.77
Mean y 0.3542
Std Dev x 24.4
Std Dev y 7.72
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
150
100
50
0

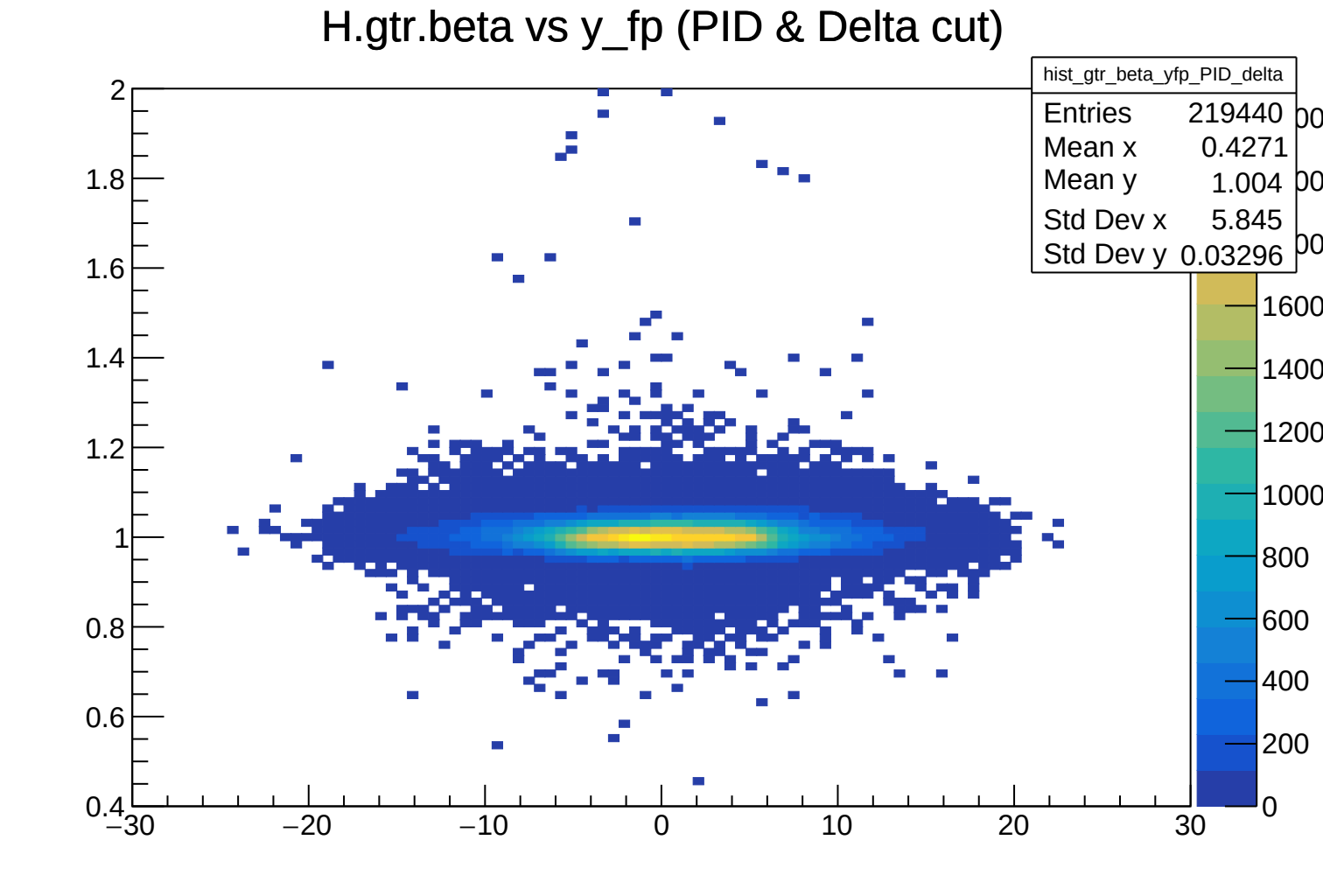

H.gtr.beta vs x_fp (PID cut)
hist_gtr_beta_xfp_PID
Entries 316325
Mean x −3.746
Mean y 1.004
Std Dev x 24.39
Std Dev y 0.03426
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−50
−40
−30
−20
−10
0
10
20
30
40
50
800
600
400
200
0

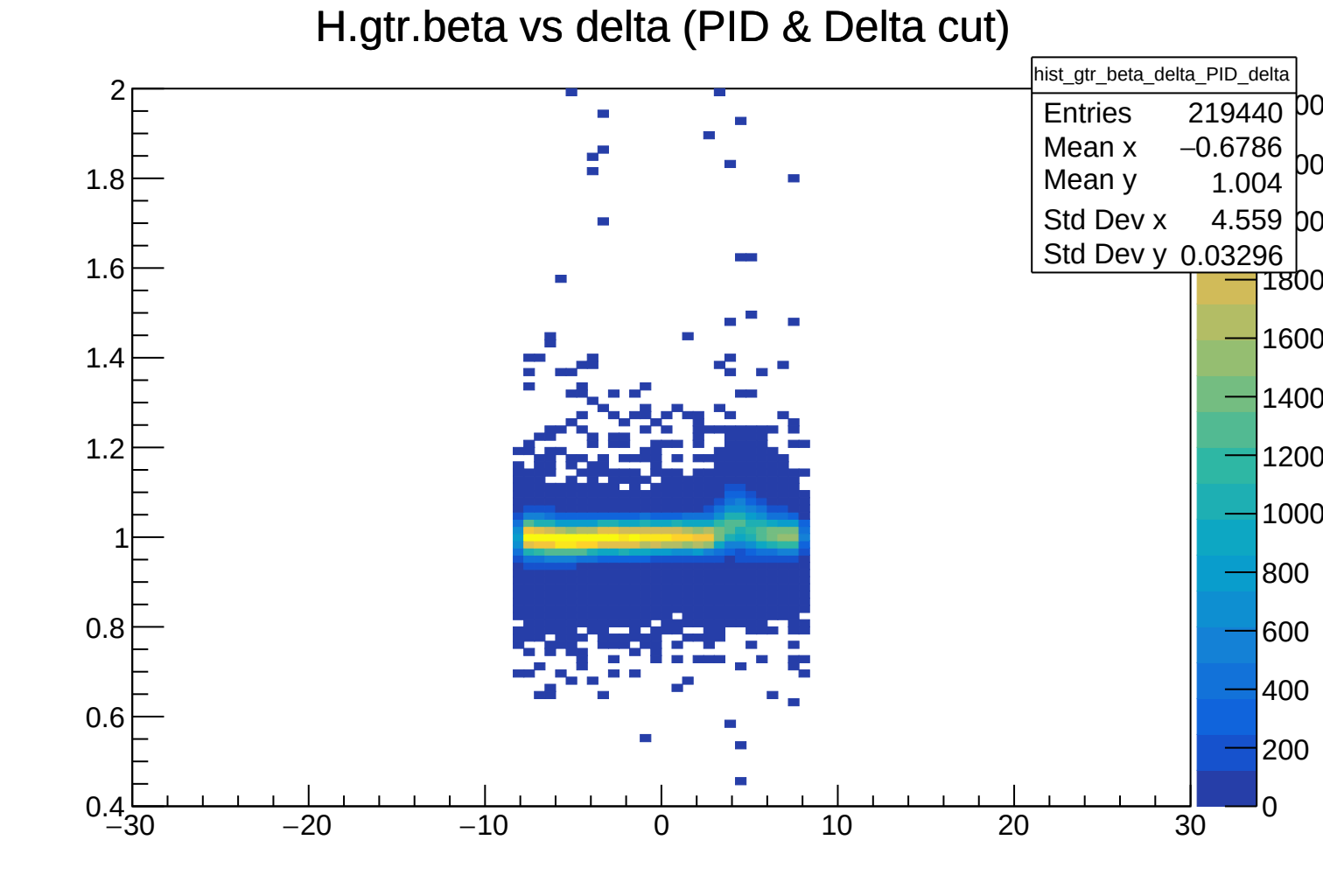

H.gtr.beta vs y_fp (PID cut)
hist_gtr_beta_yfp_PID
Entries 316325
Mean x 0.3555
Mean y 1.004
Std Dev x 7.719
Std Dev y 0.03426
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
1500
1000
500
0


H.gtr.beta vs delta (PID cut)
hist_gtr_beta_delta_PID
Entries 316325
Mean x −0.7034
Mean y 1.004
Std Dev x 6.74
Std Dev y 0.03419
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


focal plane (PID & Delta cut)
hist_yfp_xfp_PID_delta
Entries 219440
Mean x −2.831
Mean y 0.4265
Std Dev x 17.1
Std Dev y 5.846
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
150
100
50
0


H.gtr.beta vs x_fp (PID & Delta cut)
hist_gtr_beta_xfp_PID_delta
Entries 219440
Mean x −2.828
Mean y 1.004
Std Dev x 17.1
Std Dev y 0.03296
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 219440
Mean x 0.4271
Mean y 1.004
Std Dev x 5.845
Std Dev y 0.03296
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


H.gtr.beta vs delta (PID & Delta cut)
hist_gtr_beta_delta_PID_delta
Entries 219440
Mean x −0.6786
Mean y 1.004
Std Dev x 4.559
Std Dev y 0.03296
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