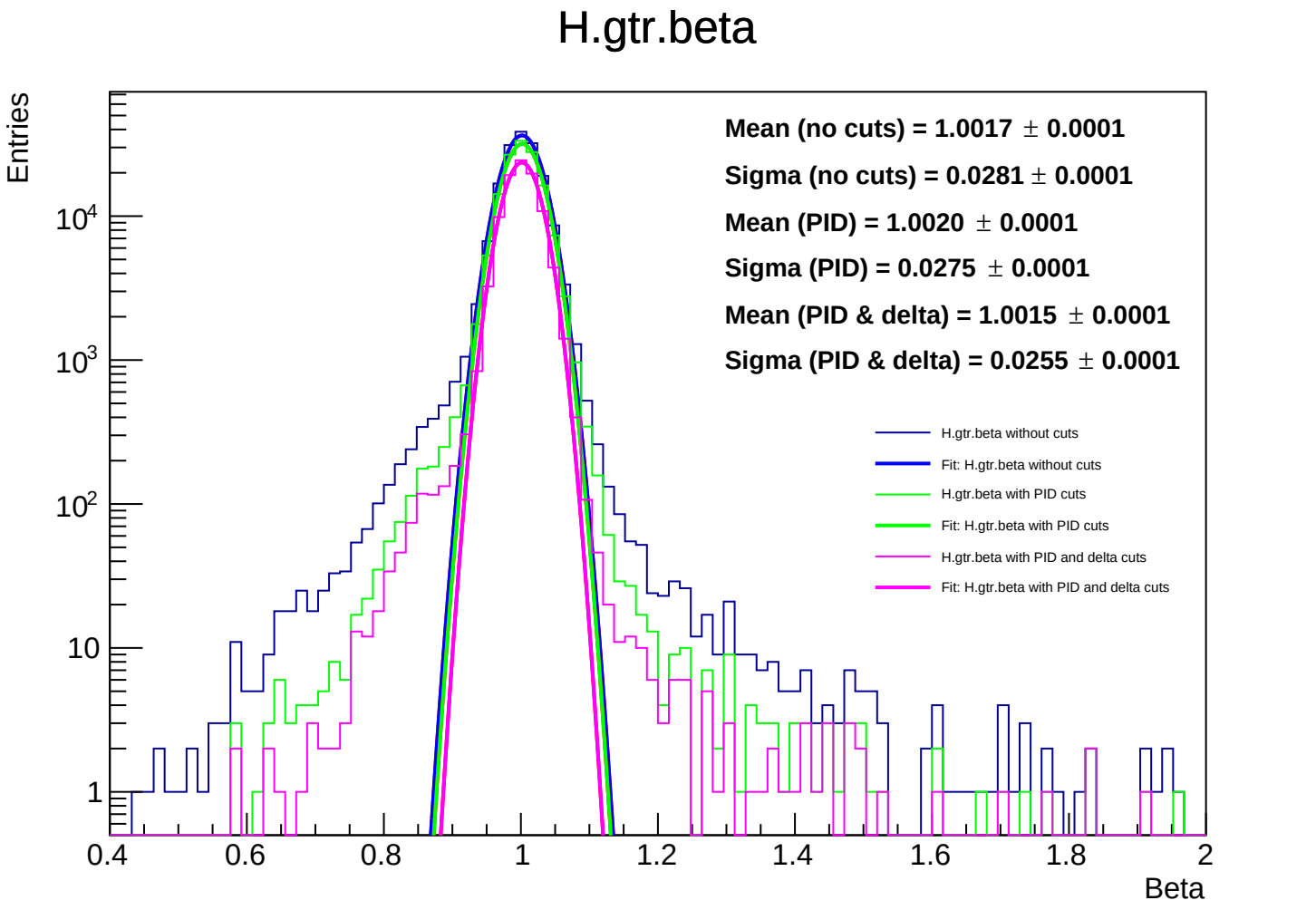
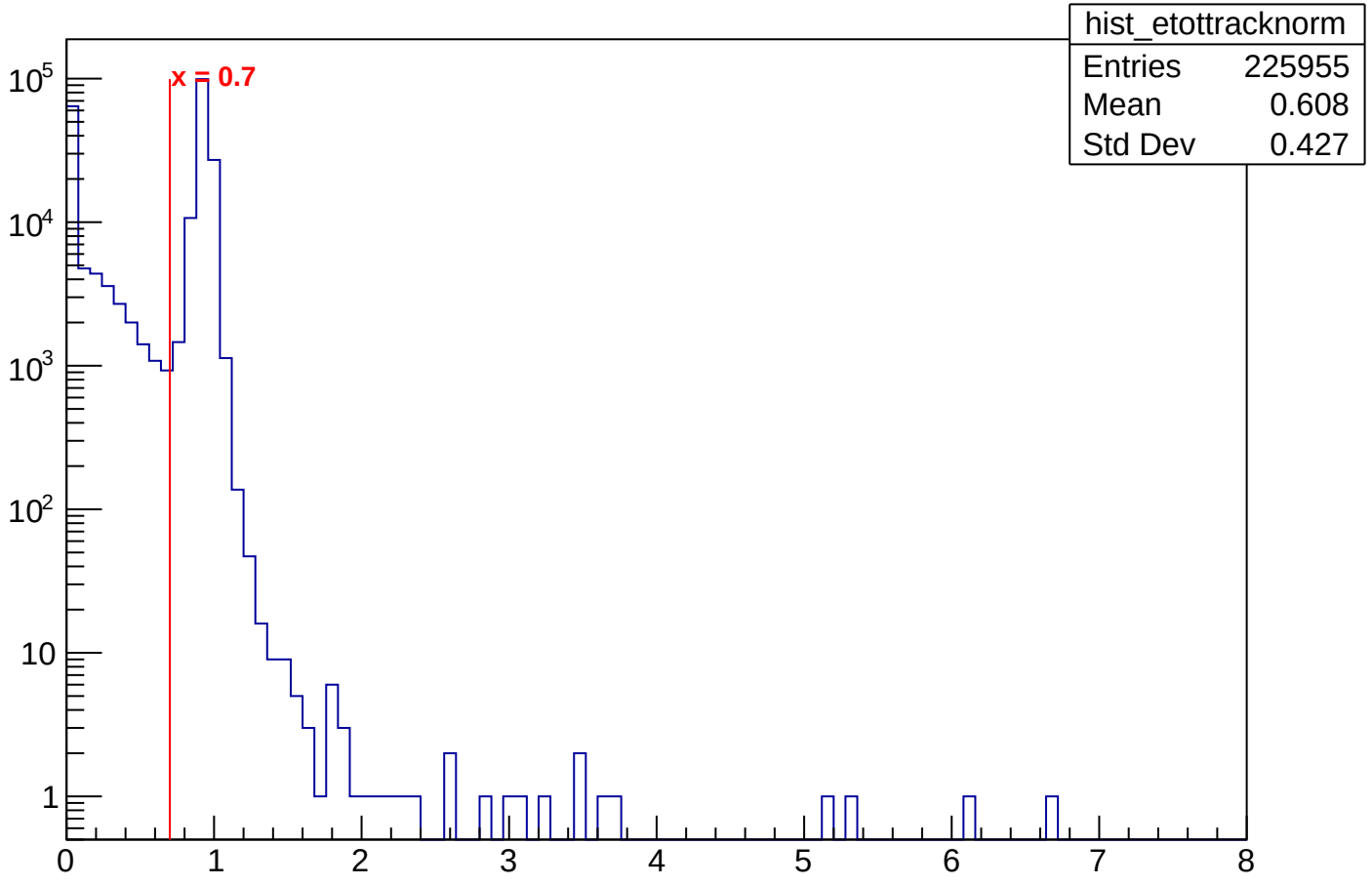
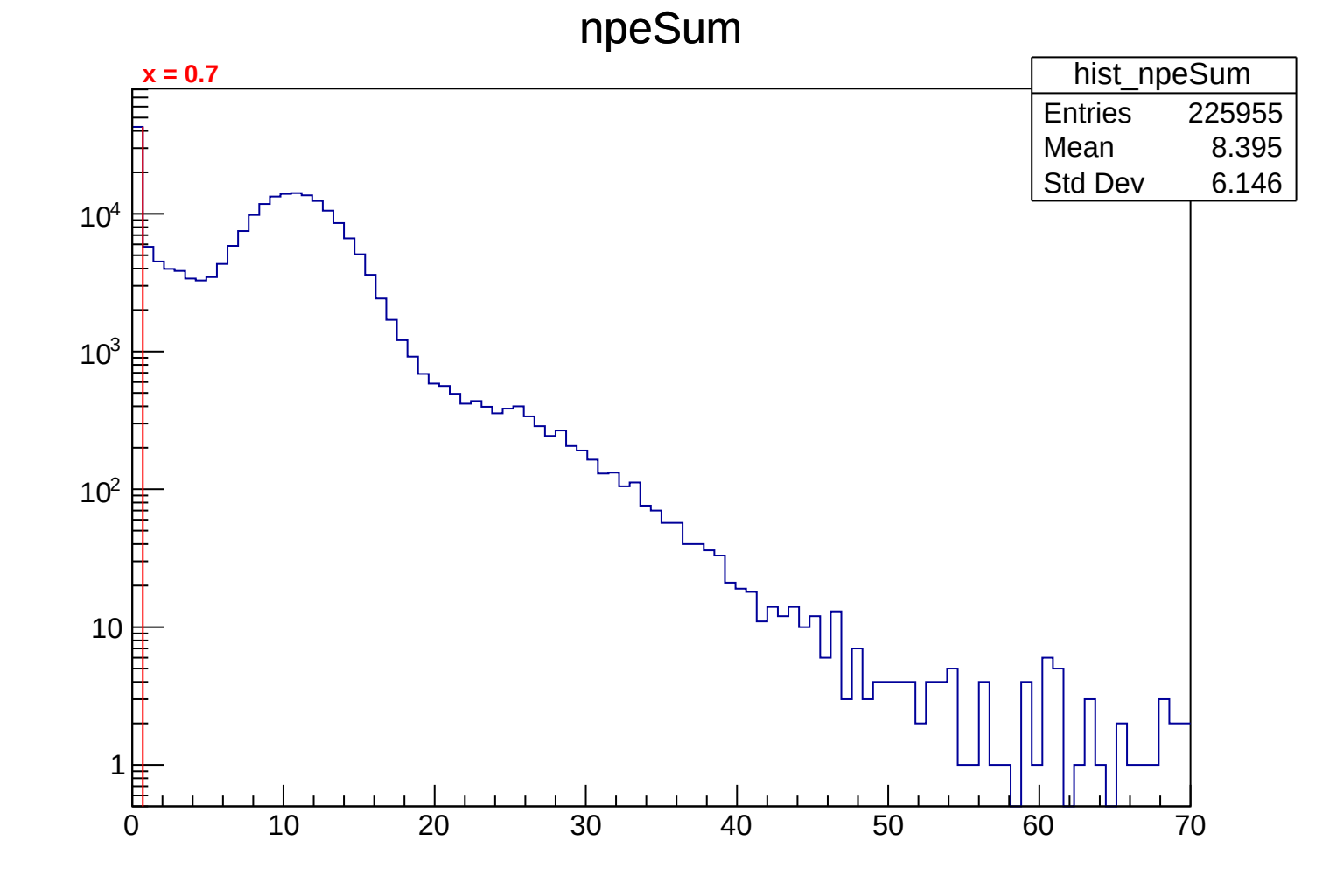
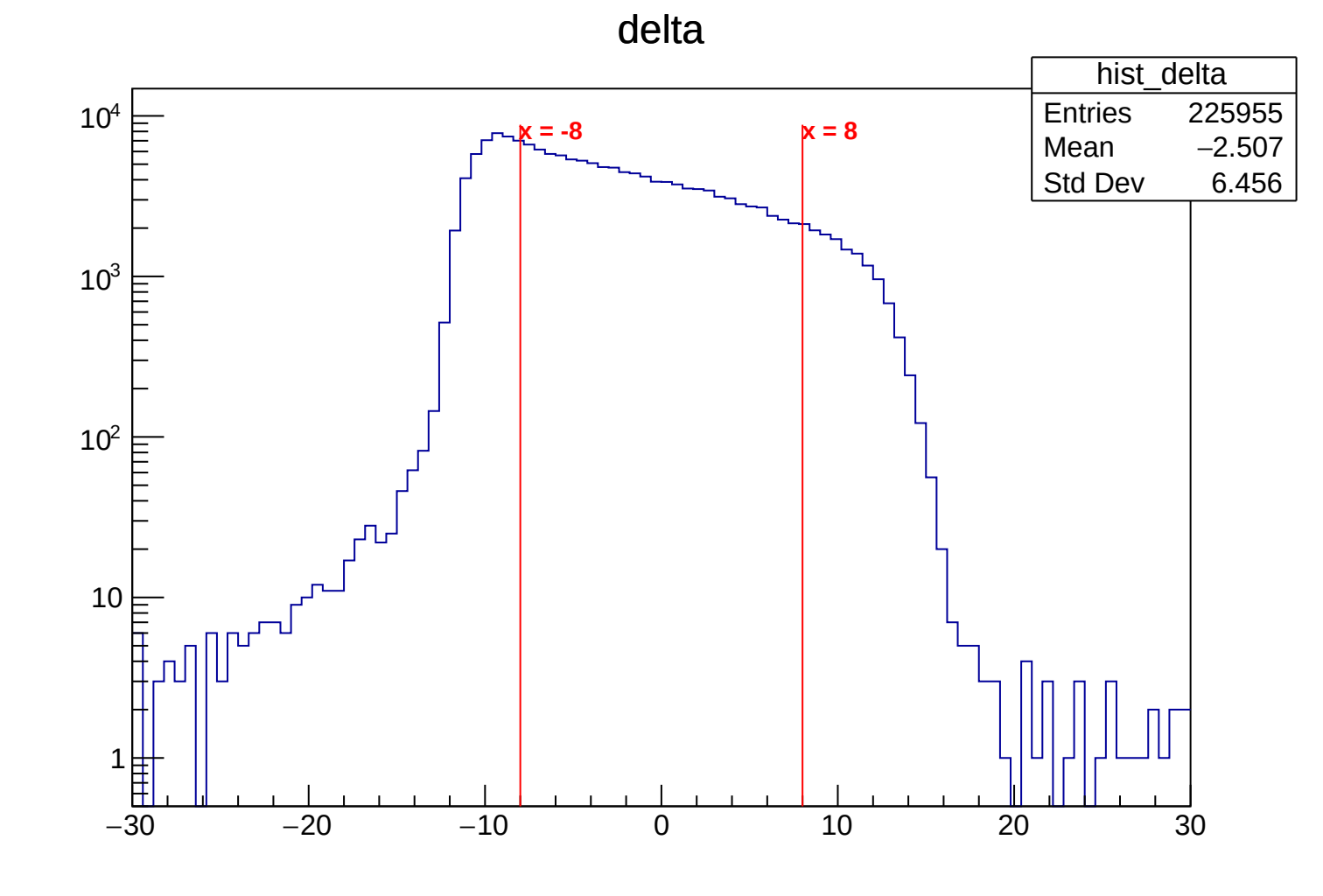
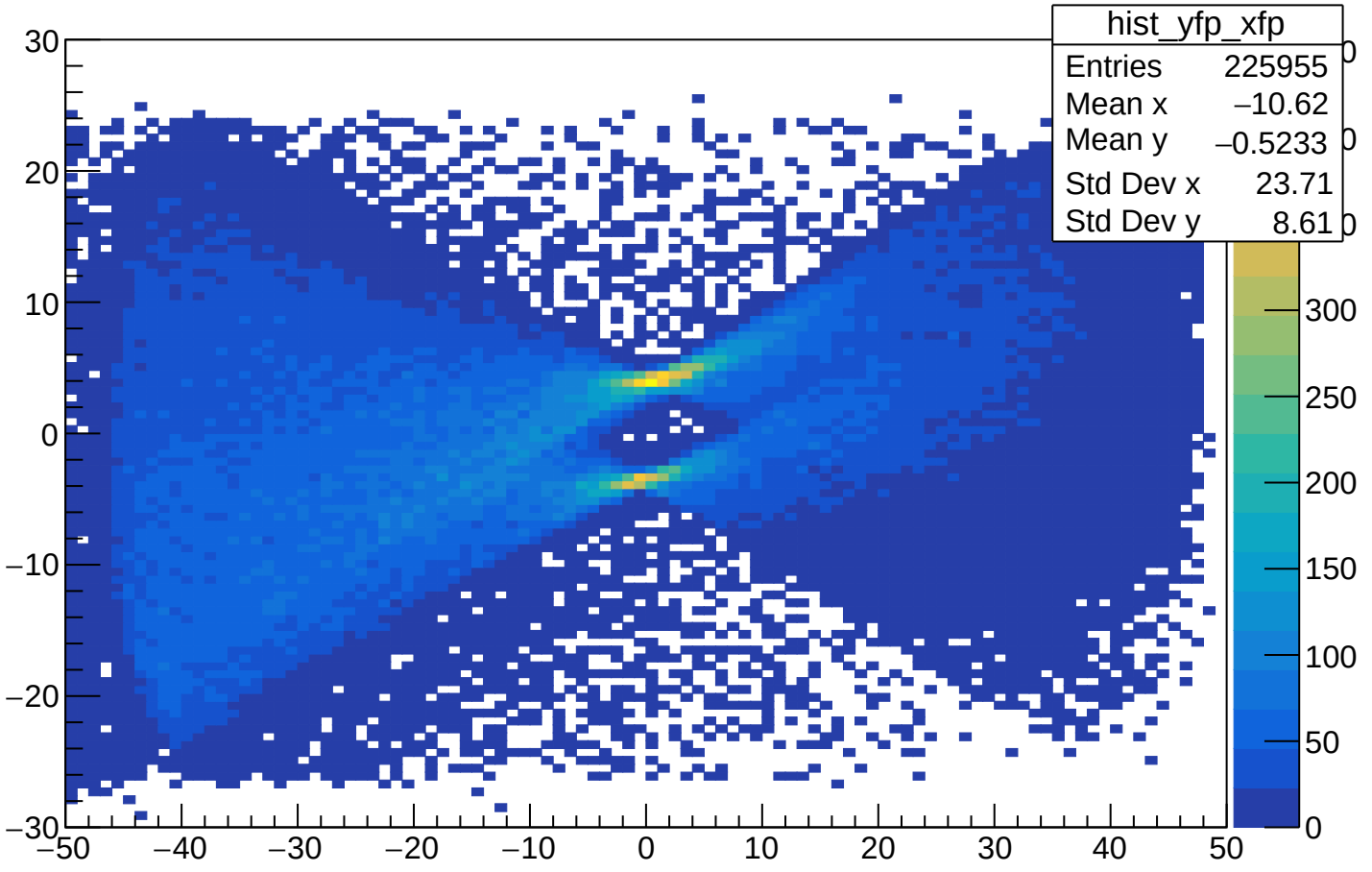
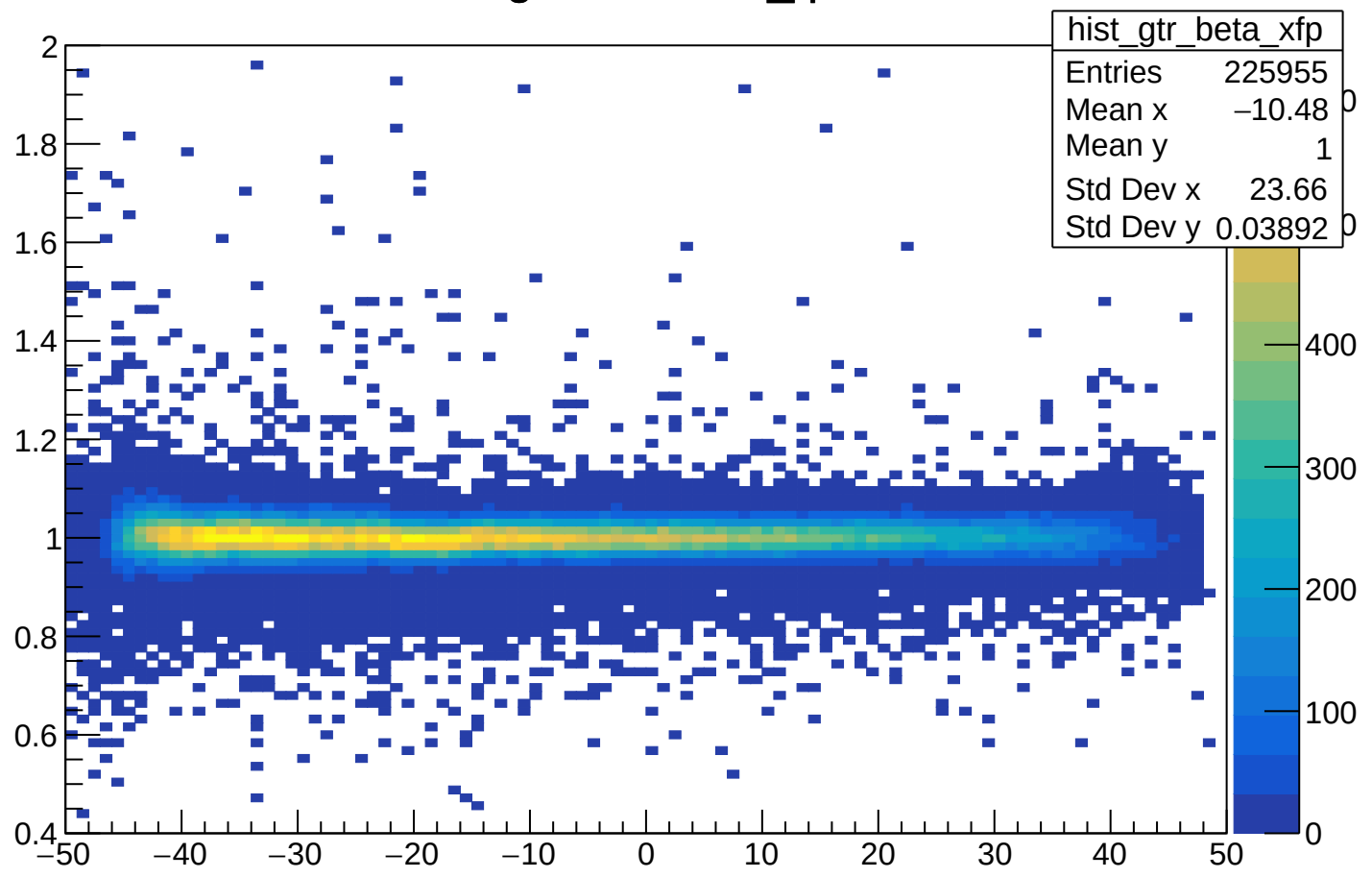

H.gtr.beta
Entries
Beta
Mean (no cuts) = 1.0017 ± 0.0001
Sigma (no cuts) = 0.0281 ± 0.0001
Mean (PID) = 1.0020 ± 0.0001
Sigma (PID) = 0.0275 ± 0.0001
Mean (PID & delta) = 1.0015 ± 0.0001
Sigma (PID & delta) = 0.0255 ± 0.0001
H.gtr.beta without cuts
Fit: H.gtr.beta without cuts
H.gtr.beta with PID cuts
Fit: H.gtr.beta with PID cuts
H.gtr.beta with PID and delta cuts
Fit: H.gtr.beta with PID and delta cuts
10^4
10^3
10^2
10
1
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2

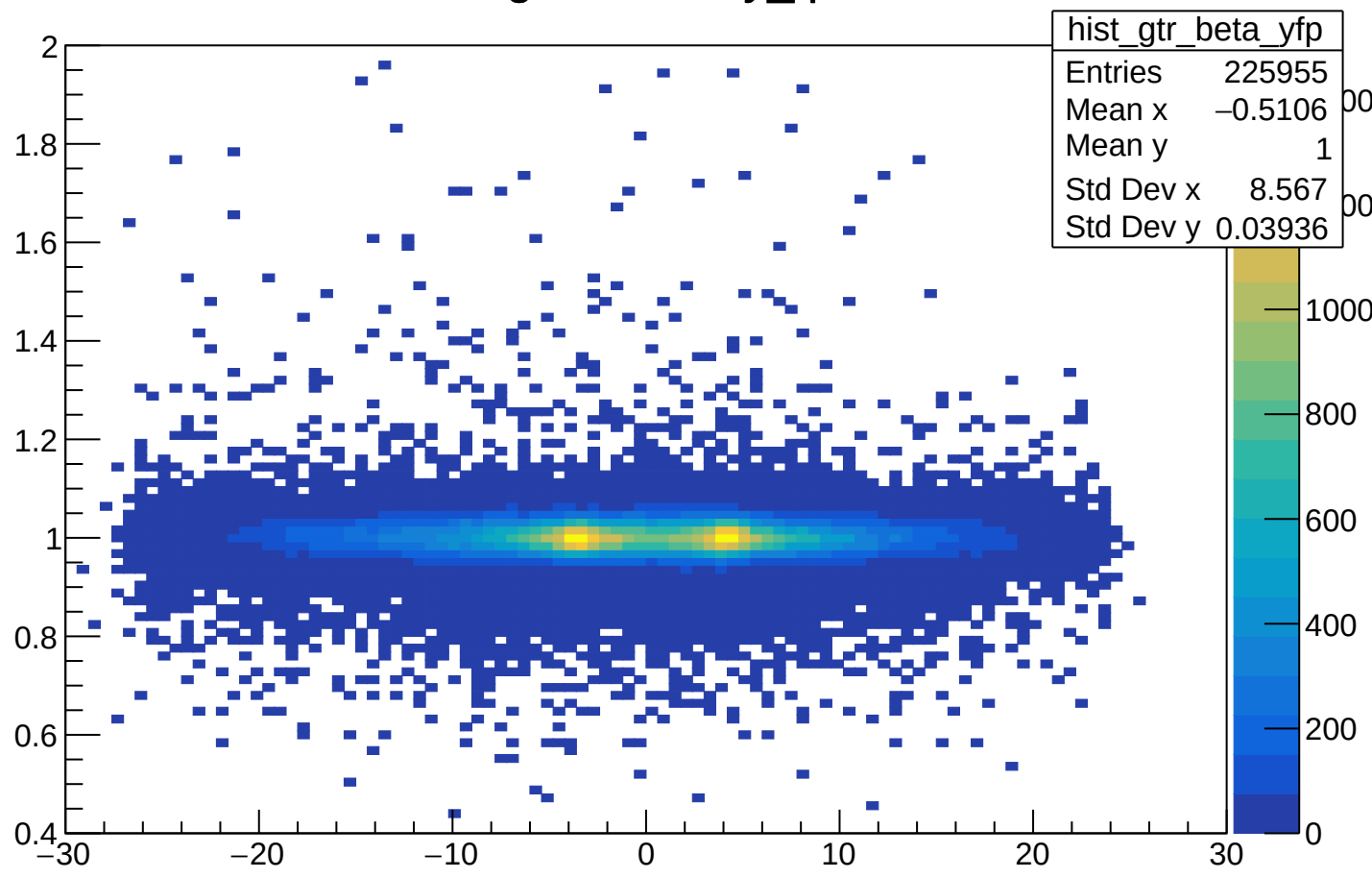

etottracknorm
hist_etottracknorm
Entries 225955
Mean 0.608
Std Dev 0.427
x = 0.7
10^5
10^4
10^3
10^2
10
1
0
1
2
3
4
5
6
7
8

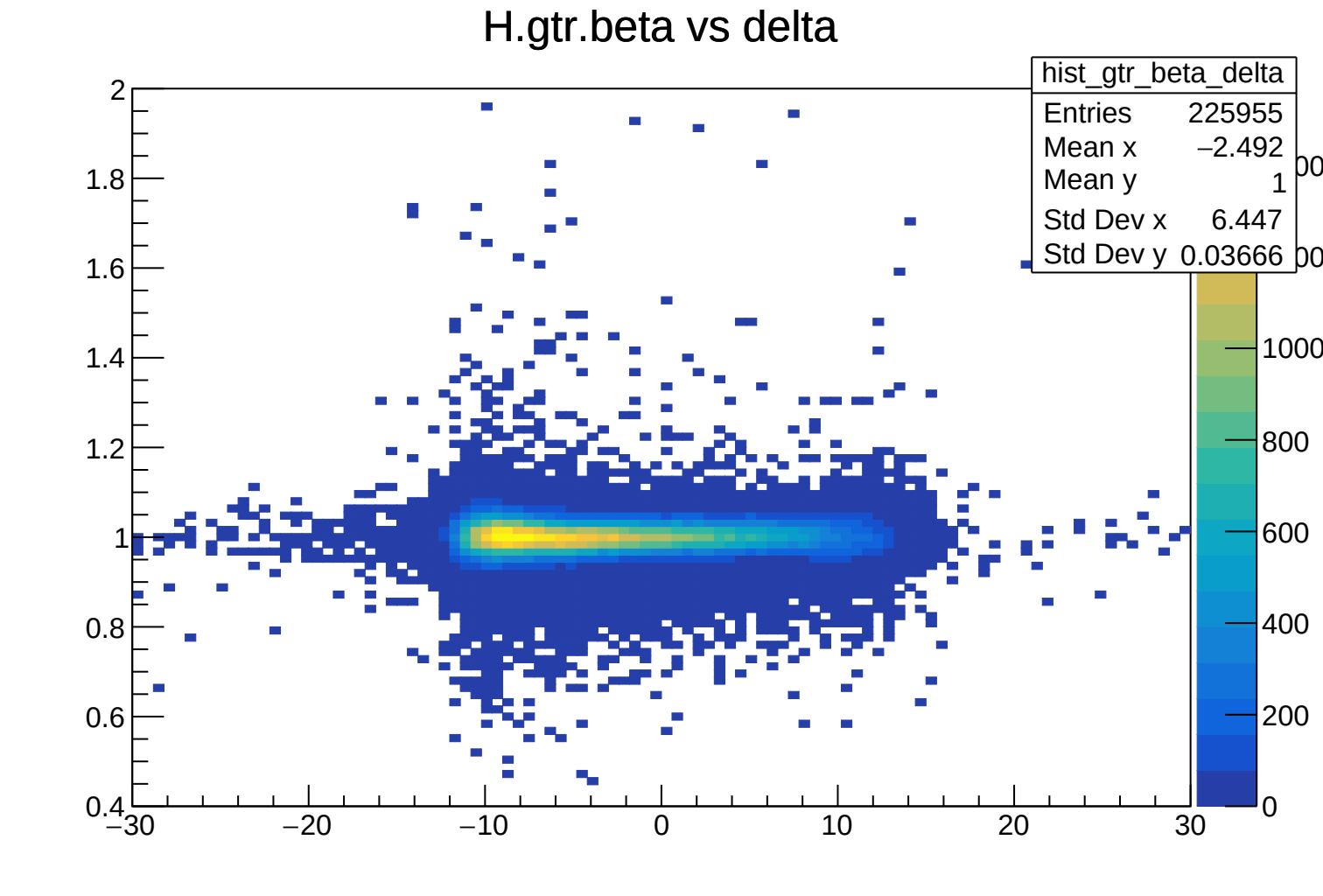

npeSum
x = 0.7
hist_npeSum
Entries 225955
Mean 8.395
Std Dev 6.146
10^4
10^3
10^2
10
1
0
10
20
30
40
50
60
70

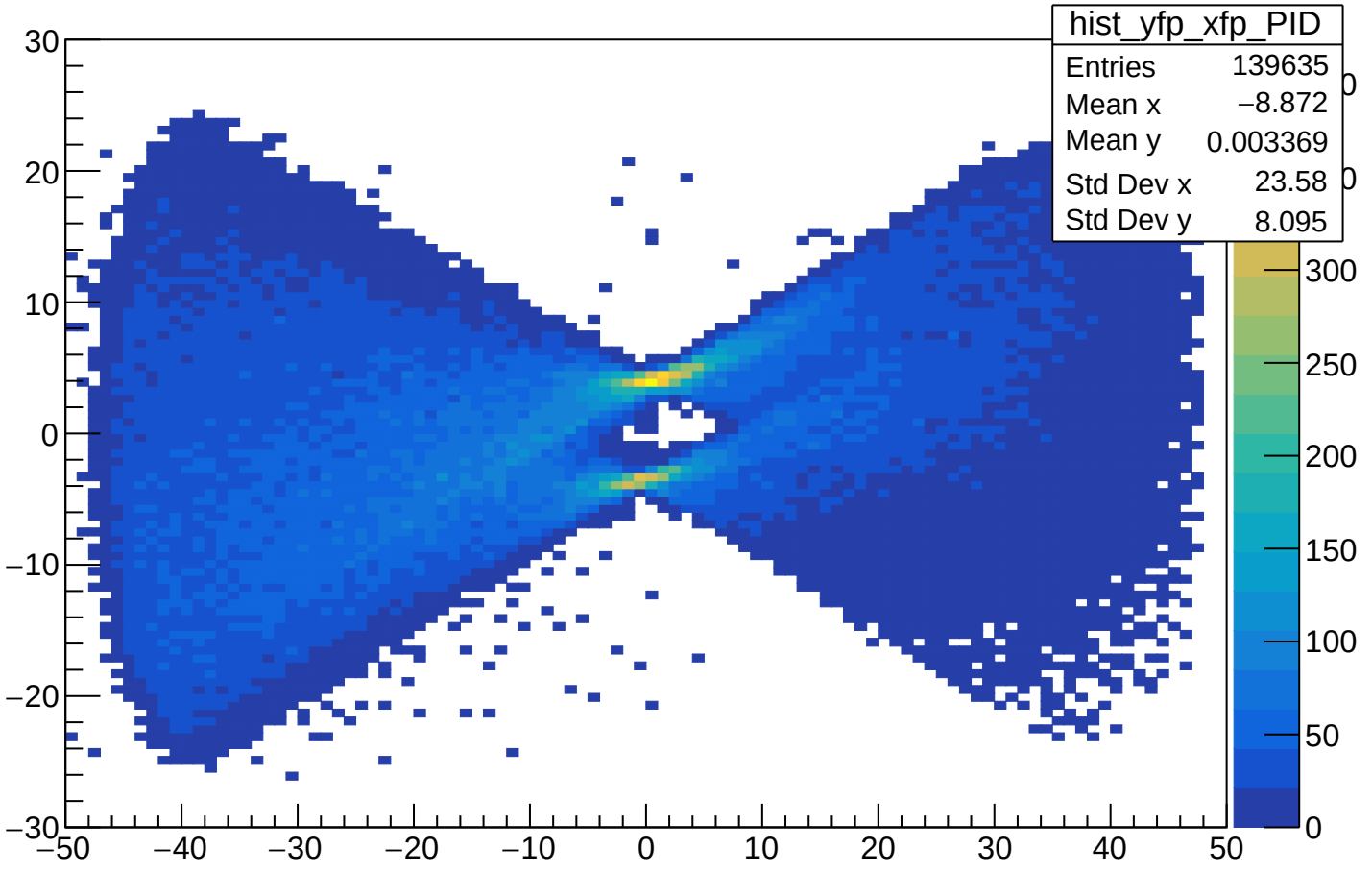

delta
hist_delta
Entries 225955
Mean −2.507
Std Dev 6.456
x = -8
x = 8
10^4
10^3
10^2
10
1
−30
−20
−10
0
10
20
30

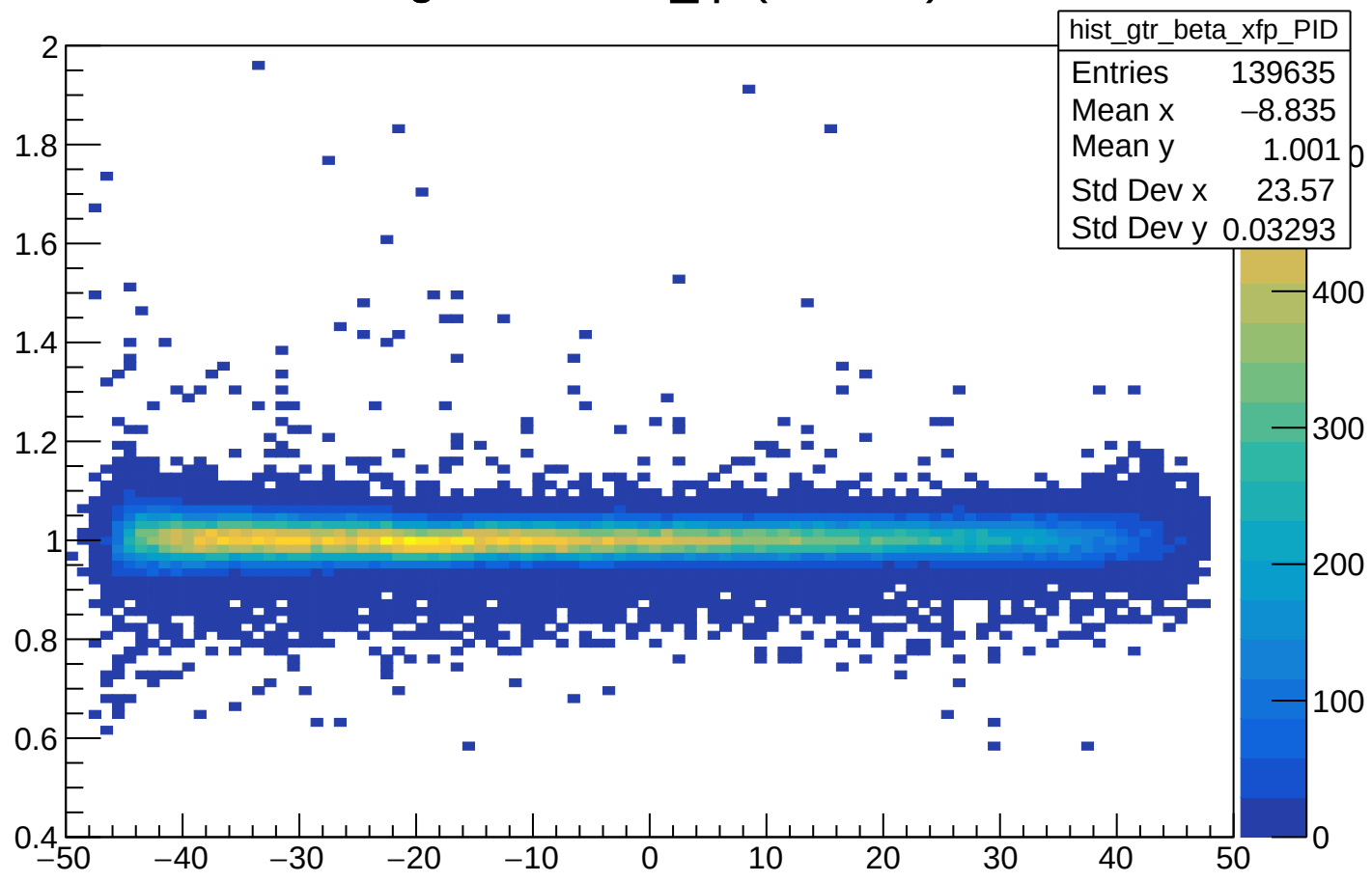

focal plane
hist_yfp_xfp
Entries 225955
Mean x −10.62
Mean y −0.5233
Std Dev x 23.71
Std Dev y 8.61
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
300
250
200
150
100
50
0

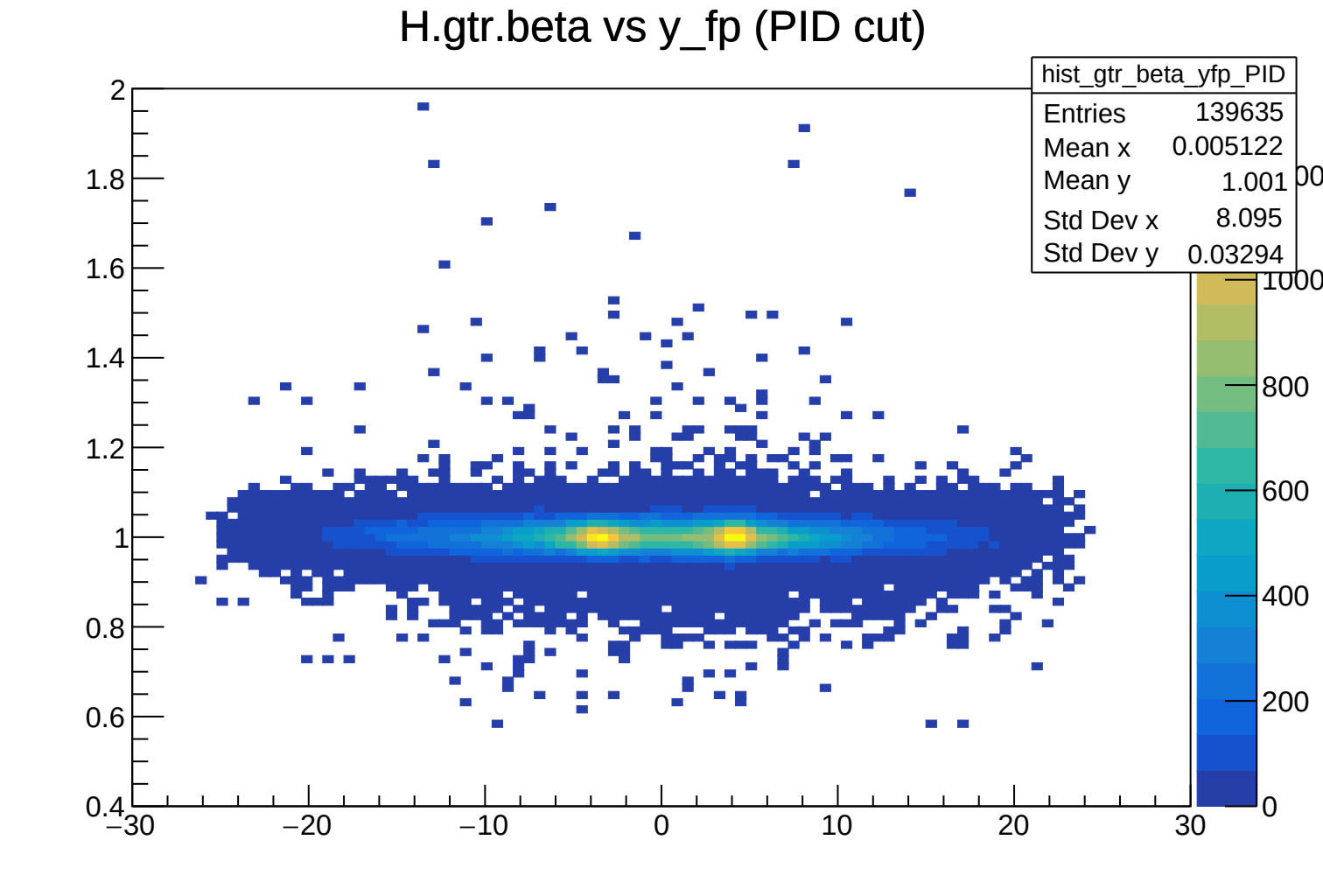

H.gtr.beta vs x_fp
hist_gtr_beta_xfp
Entries 225955
Mean x −10.48
Mean y 1
Std Dev x 23.66
Std Dev y 0.03892
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−50
−40
−30
−20
−10
0
10
20
30
40
50
400
300
200
100
0

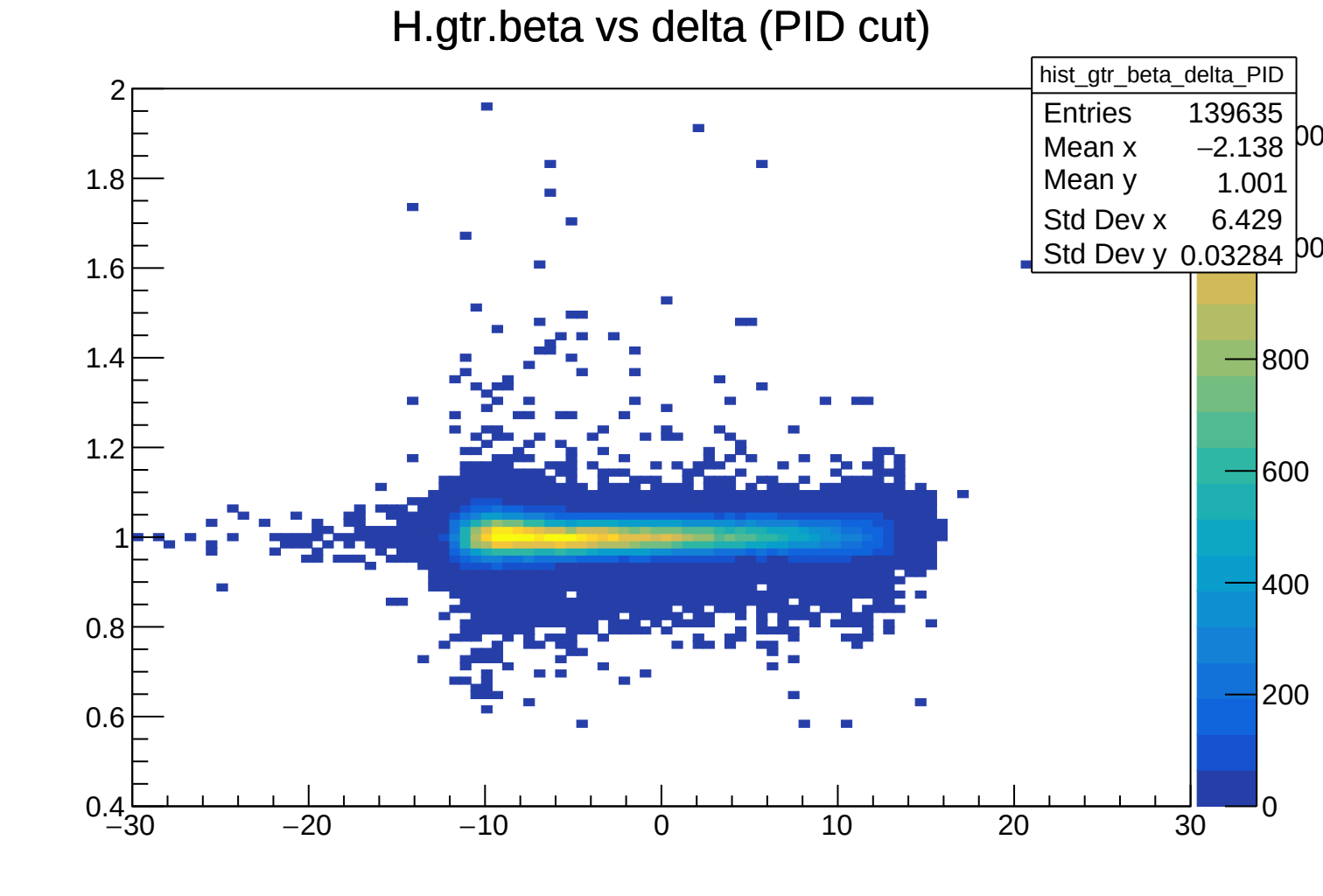

H.gtr.beta vs y_fp
hist_gtr_beta_yfp
Entries 225955
Mean x −0.5106
Mean y 1
Std Dev x 8.567
Std Dev y 0.03936
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
1000
800
600
400
200
0

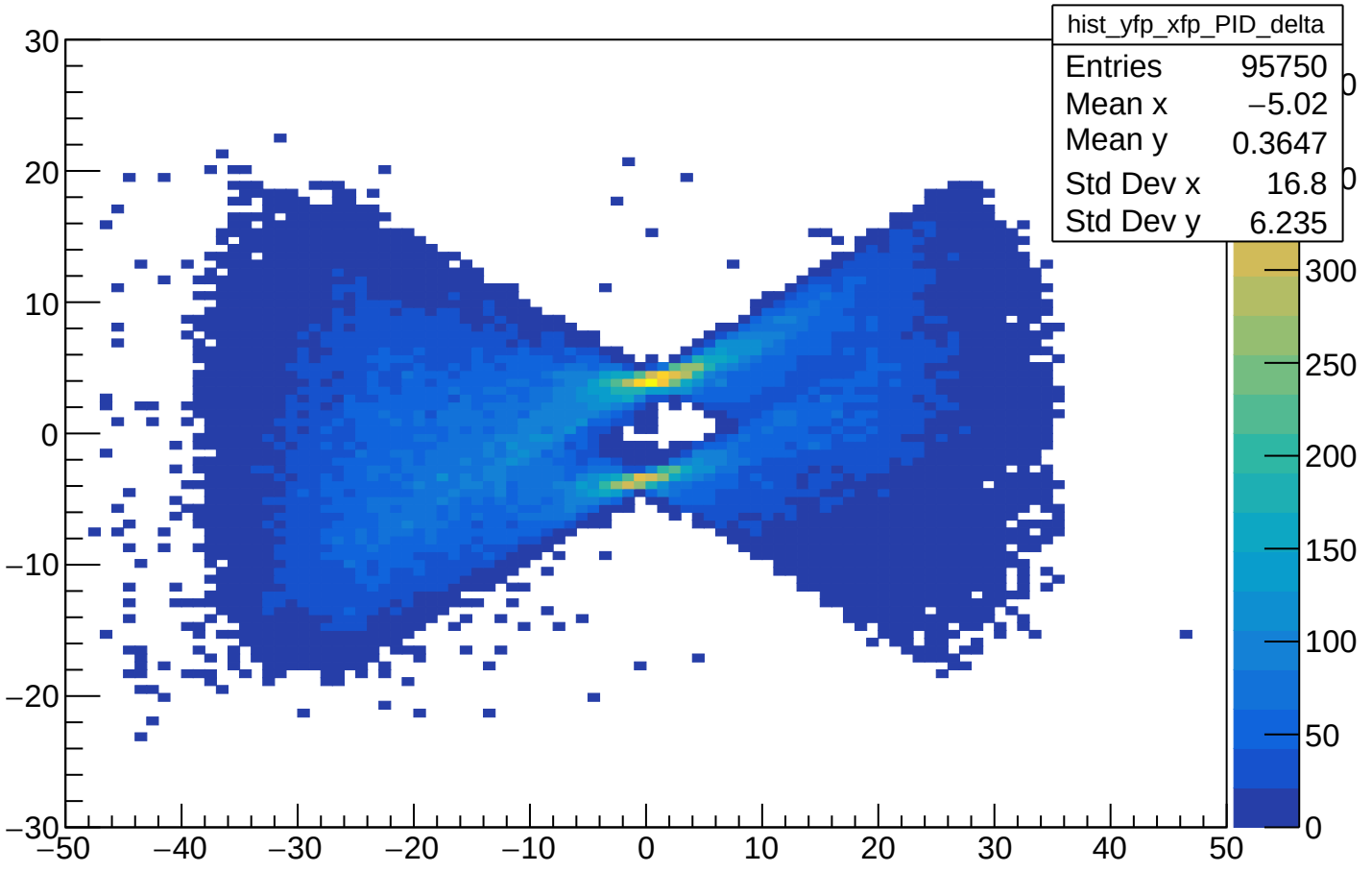

H.gtr.beta vs delta
hist_gtr_beta_delta
Entries 225955
Mean x −2.492
Mean y 1
Std Dev x 6.447
Std Dev y 0.03666
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
1000
800
600
400
200
0

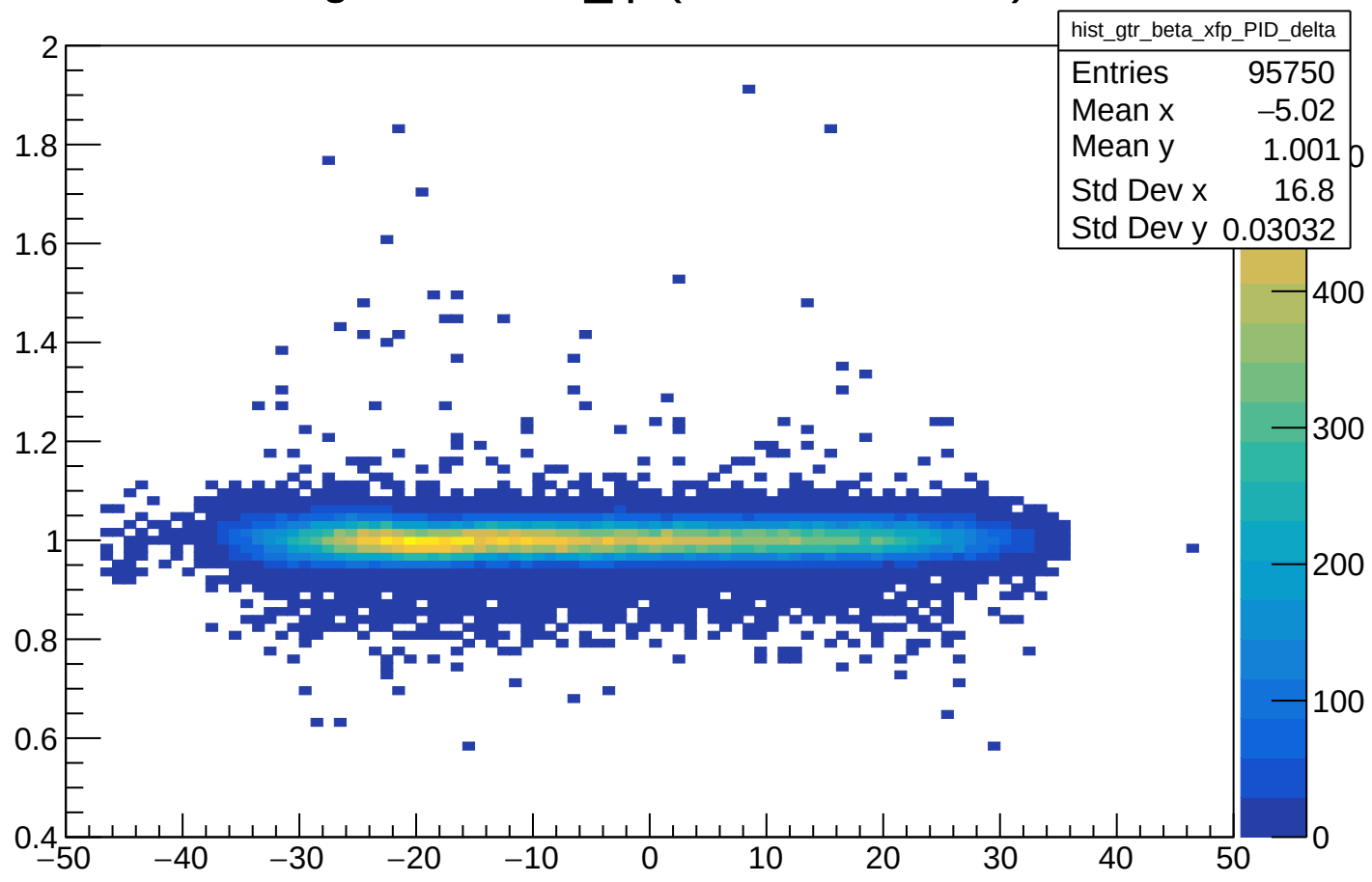

focal plane (PID cut)
hist_yfp_xfp_PID
Entries 139635
Mean x −8.872
Mean y 0.003369
Std Dev x 23.58
Std Dev y 8.095
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
300
250
200
150
100
50
0

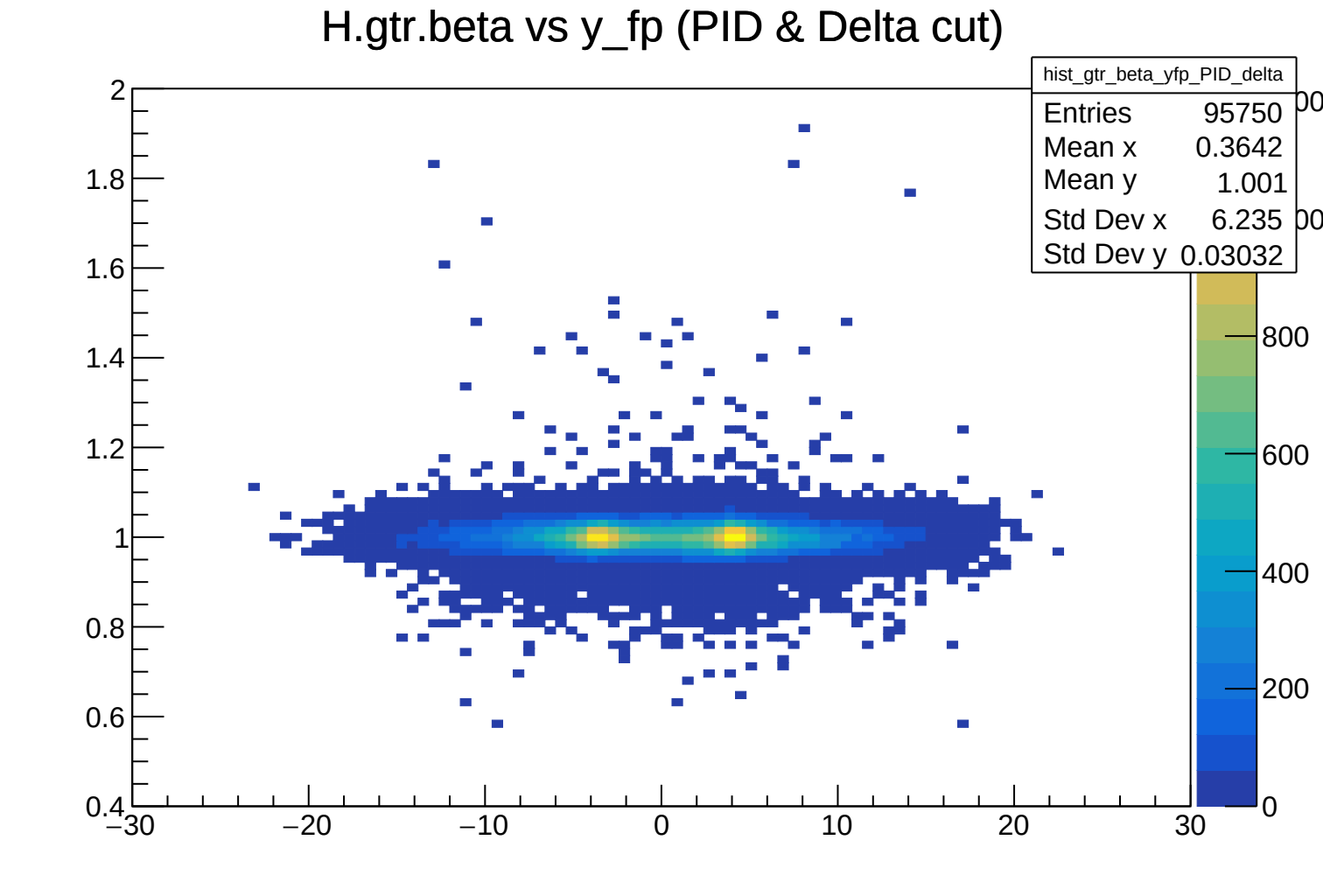

H.gtr.beta vs x_fp (PID cut)
hist_gtr_beta_xfp_PID
Entries 139635
Mean x −8.835
Mean y 1.001
Std Dev x 23.57
Std Dev y 0.03293
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−50
−40
−30
−20
−10
0
10
20
30
40
50
400
300
200
100
0

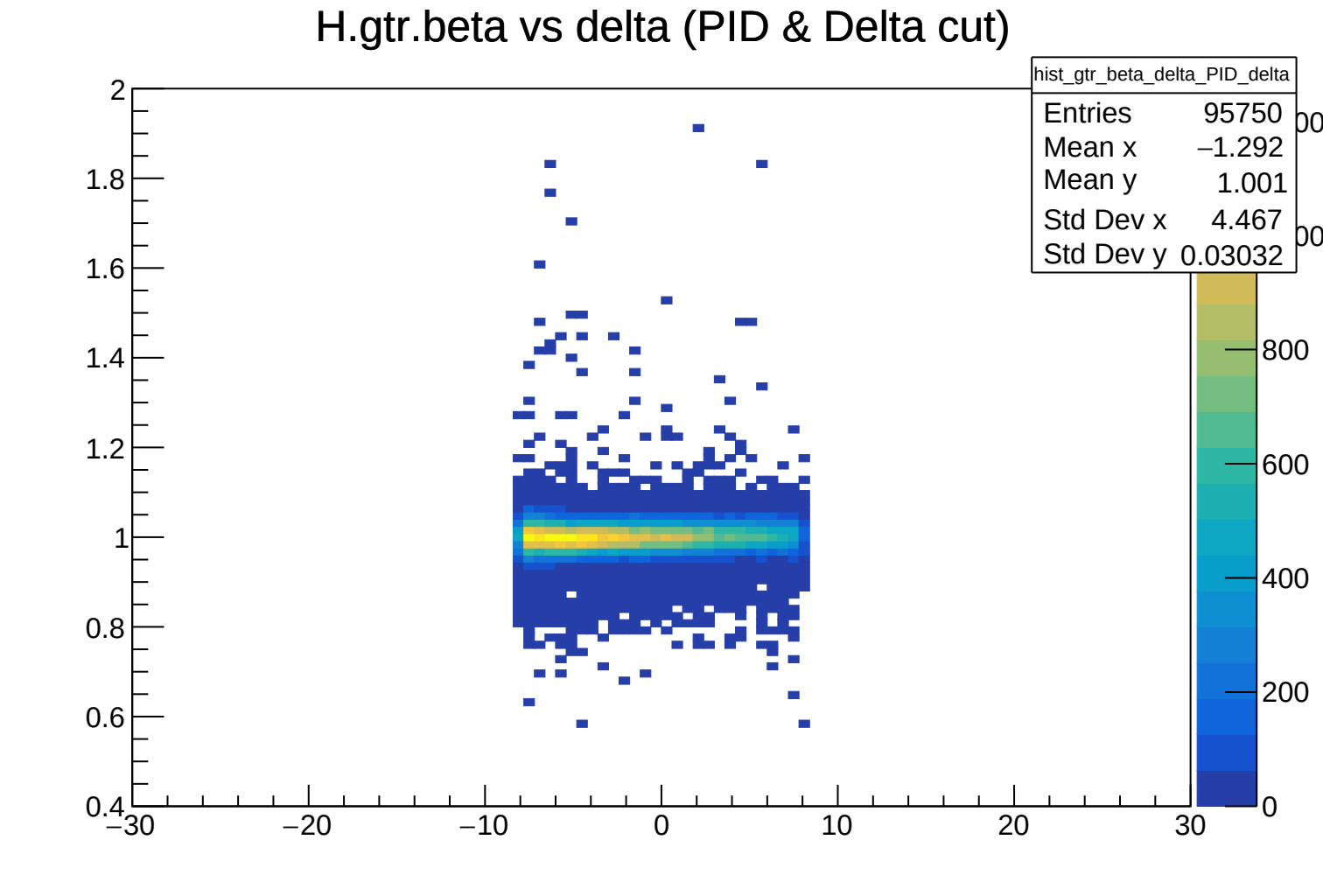

H.gtr.beta vs y_fp (PID cut)
hist_gtr_beta_yfp_PID
Entries 139635
Mean x 0.005122
Mean y 1.001
Std Dev x 8.095
Std Dev y 0.03294
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
1000
800
600
400
200
0


H.gtr.beta vs delta (PID cut)
hist_gtr_beta_delta_PID
Entries 139635
Mean x −2.138
Mean y 1.001
Std Dev x 6.429
Std Dev y 0.03284
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 95750
Mean x −5.02
Mean y 0.3647
Std Dev x 16.8
Std Dev y 6.235
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
300
250
200
150
100
50
0


H.gtr.beta vs x_fp (PID & Delta cut)
hist_gtr_beta_xfp_PID_delta
Entries 95750
Mean x −5.02
Mean y 1.001
Std Dev x 16.8
Std Dev y 0.03032
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 95750
Mean x 0.3642
Mean y 1.001
Std Dev x 6.235
Std Dev y 0.03032
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 95750
Mean x –1.292
Mean y 1.001
Std Dev x 4.467
Std Dev y 0.03032
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