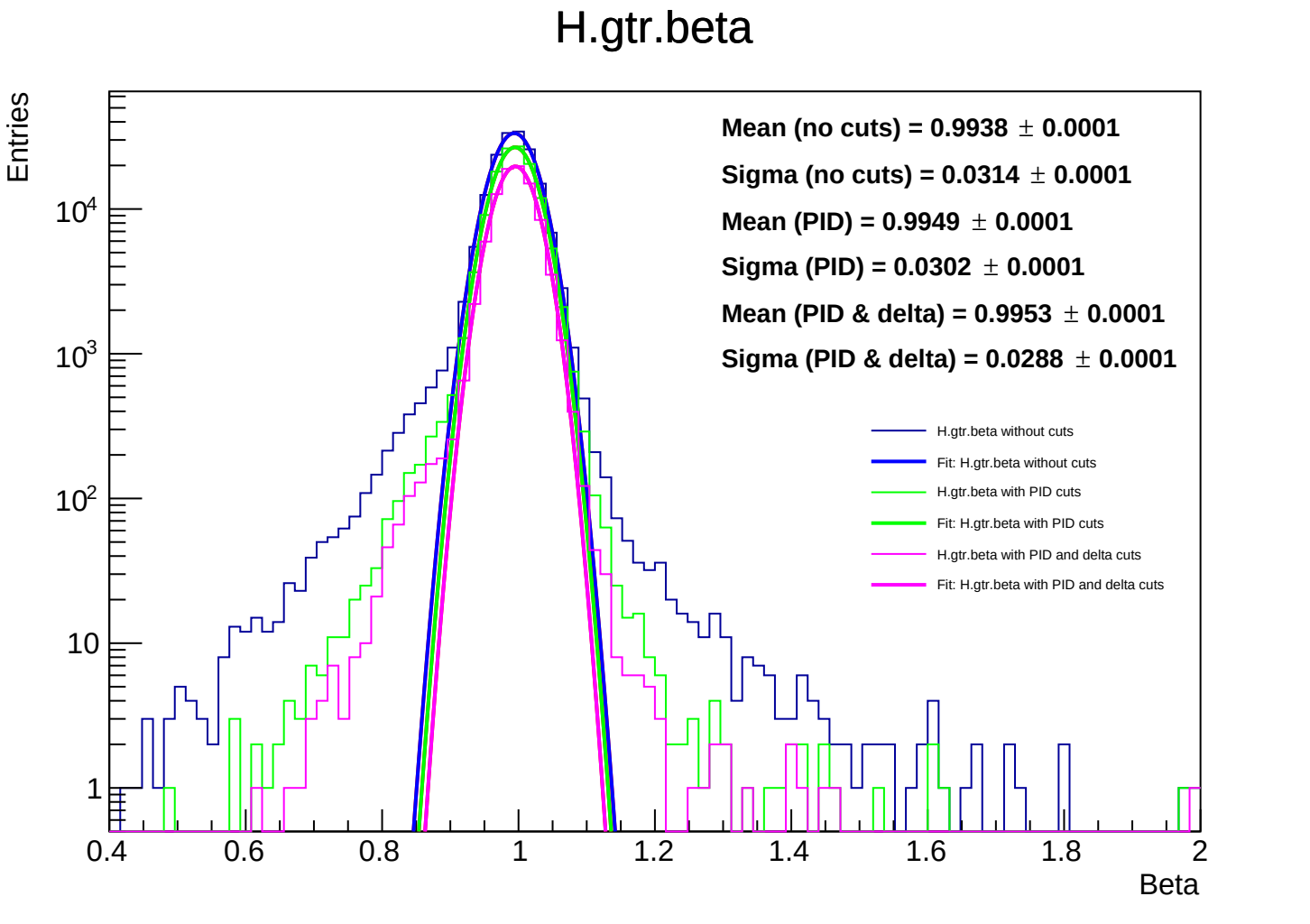
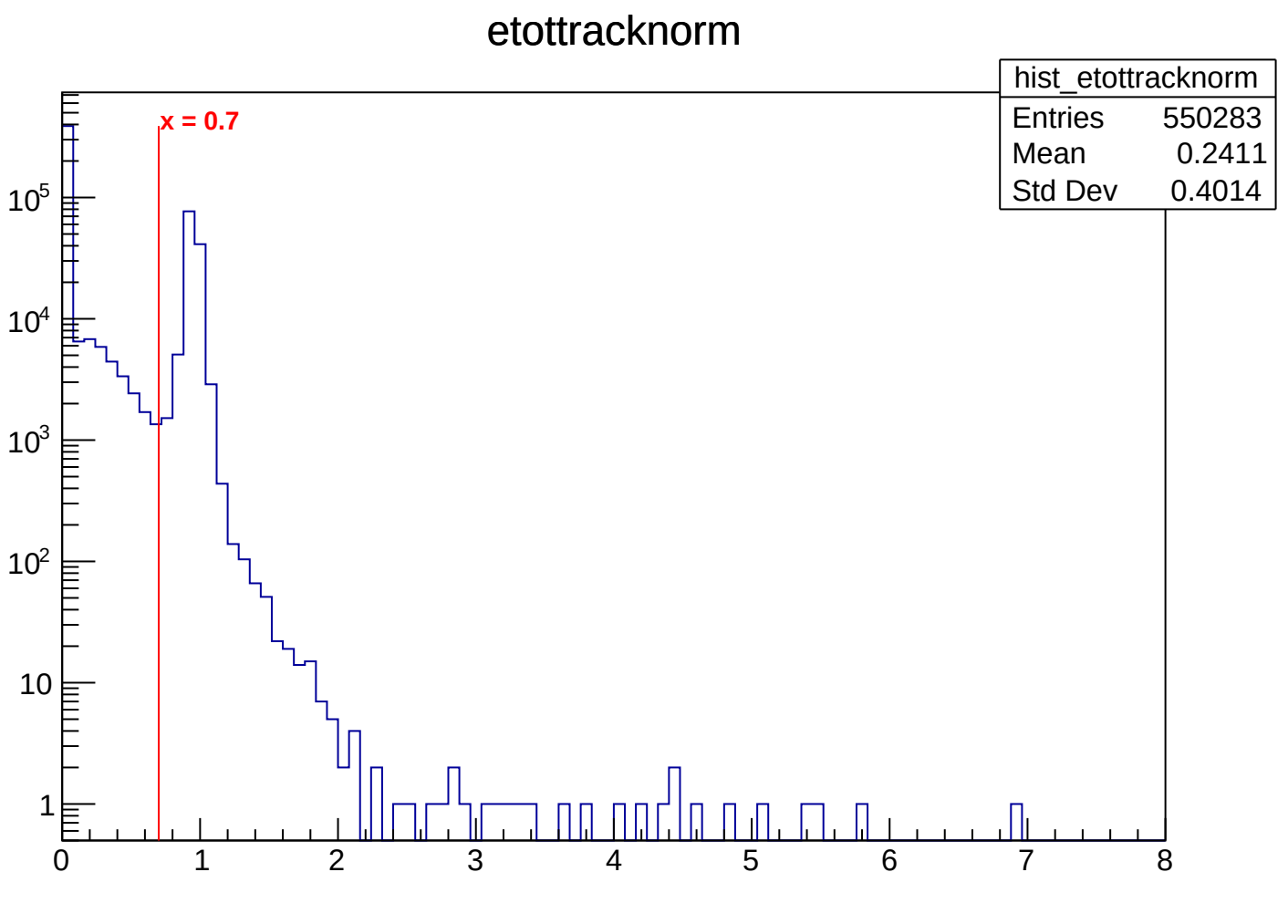
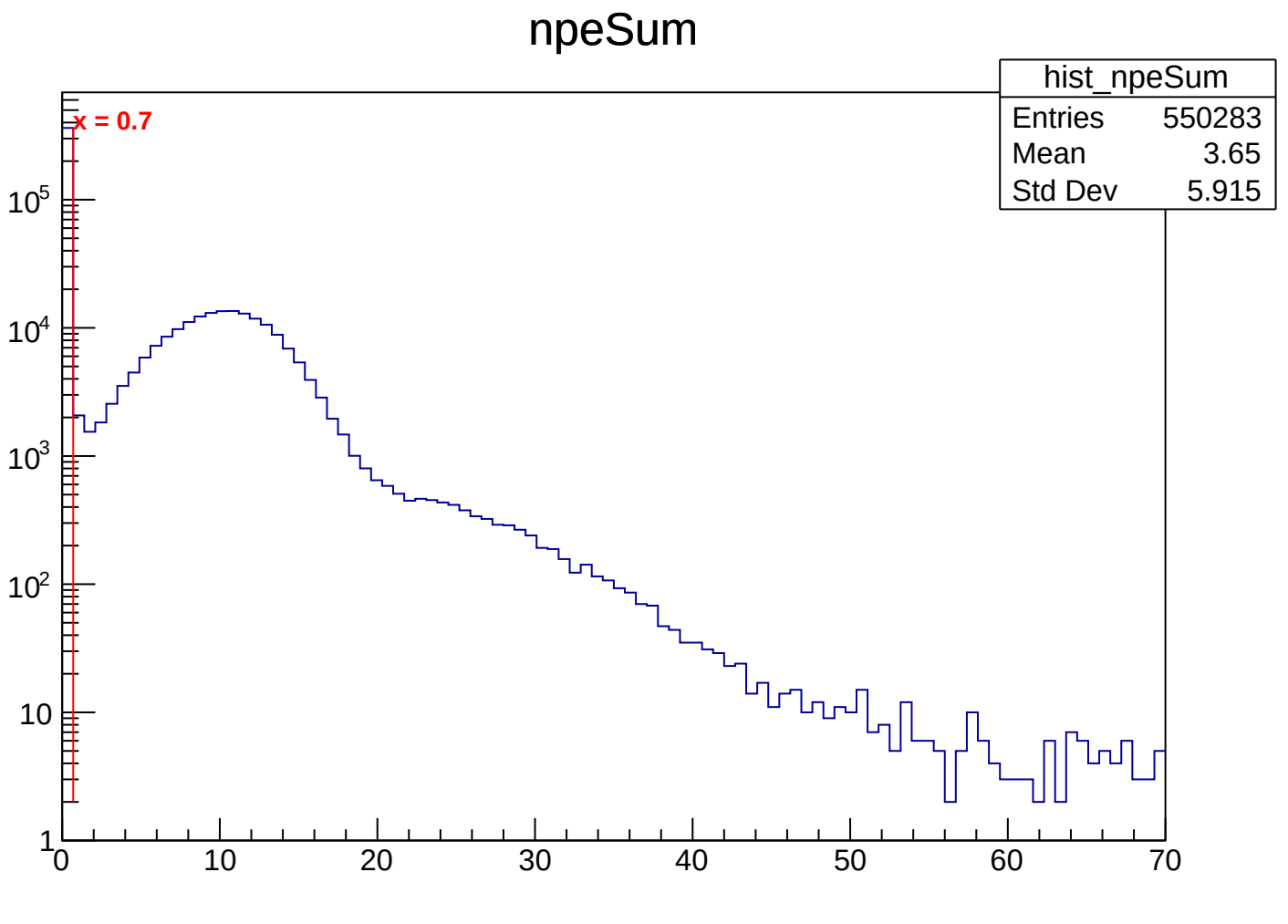
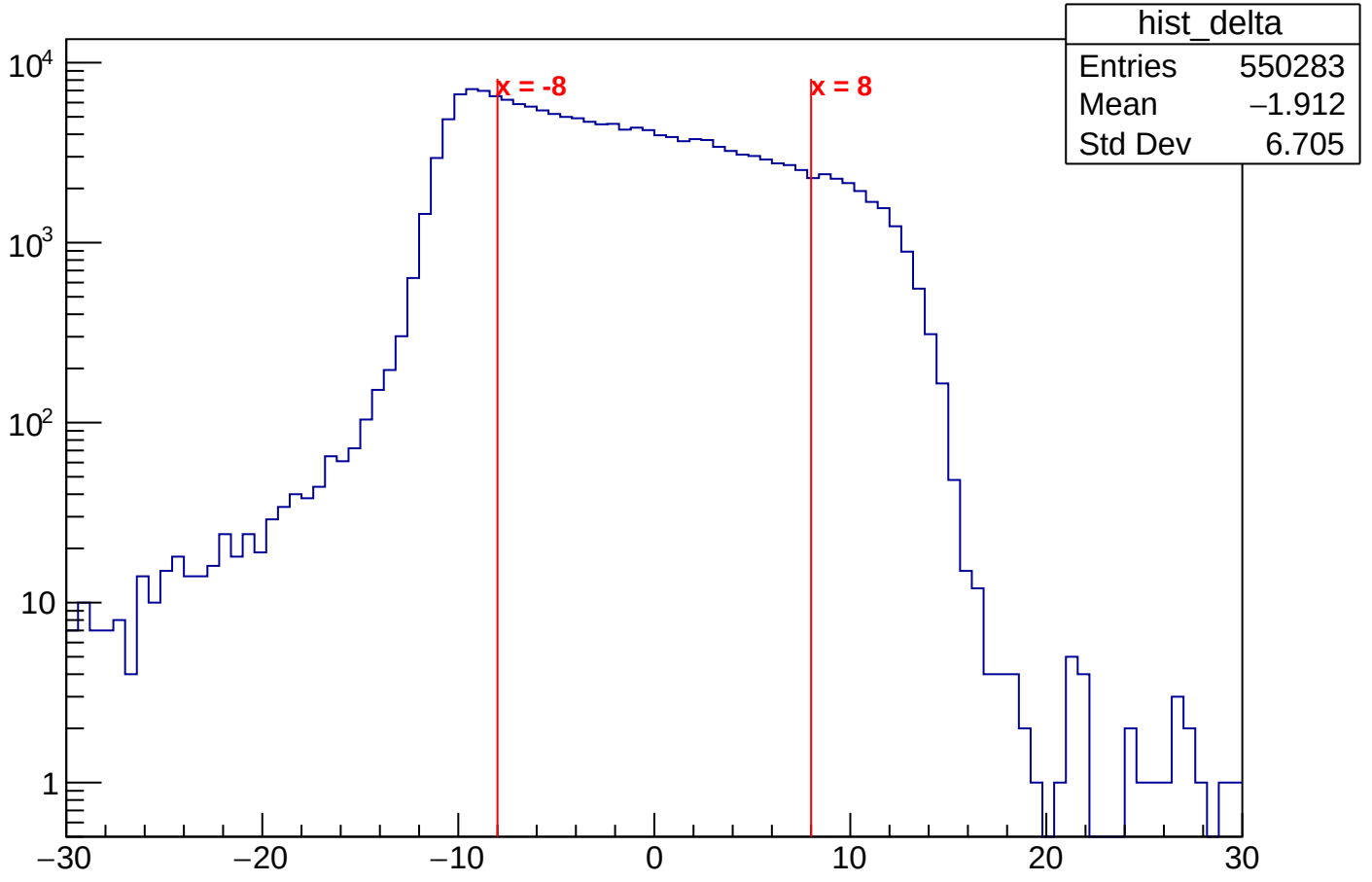
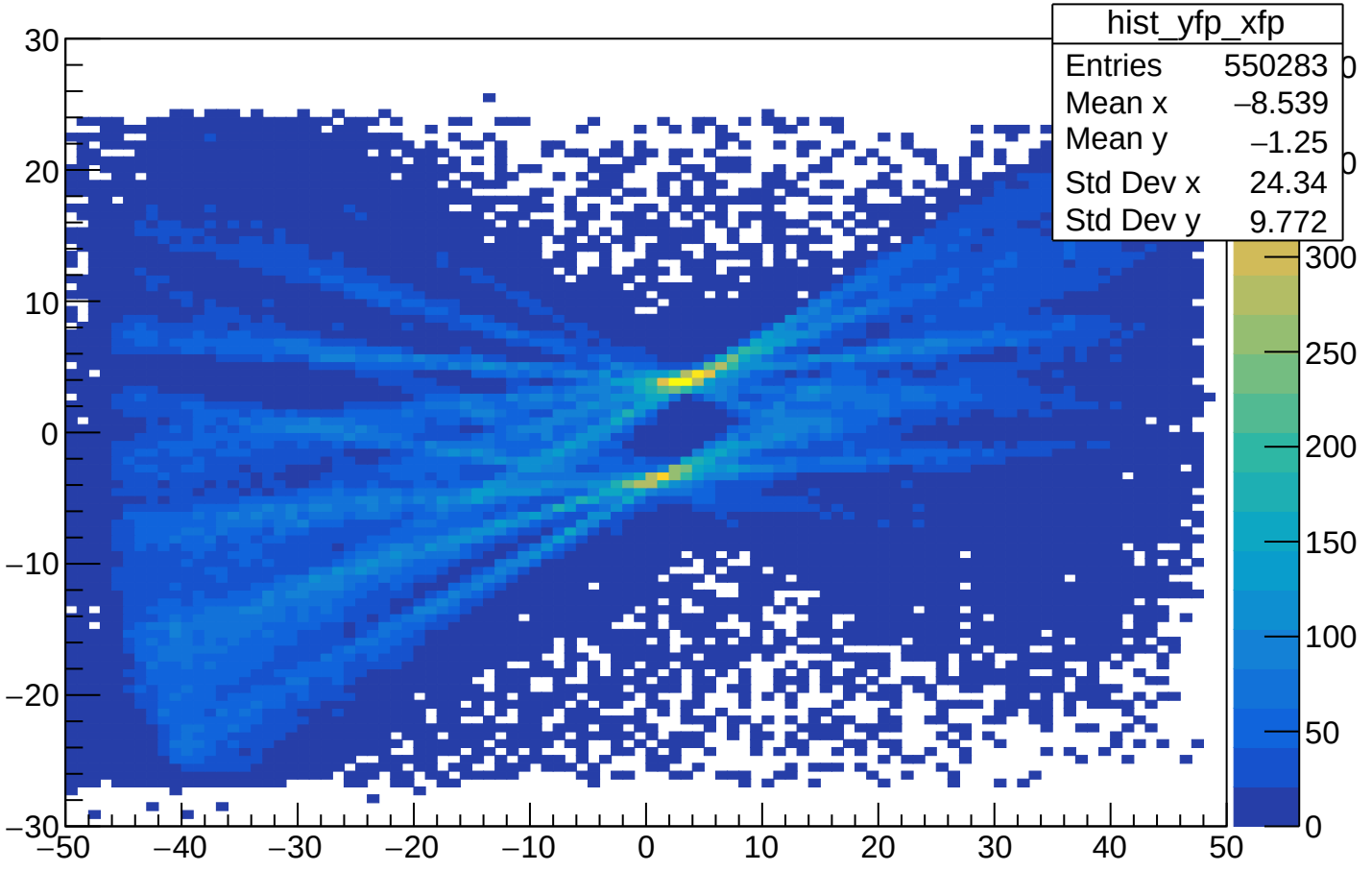
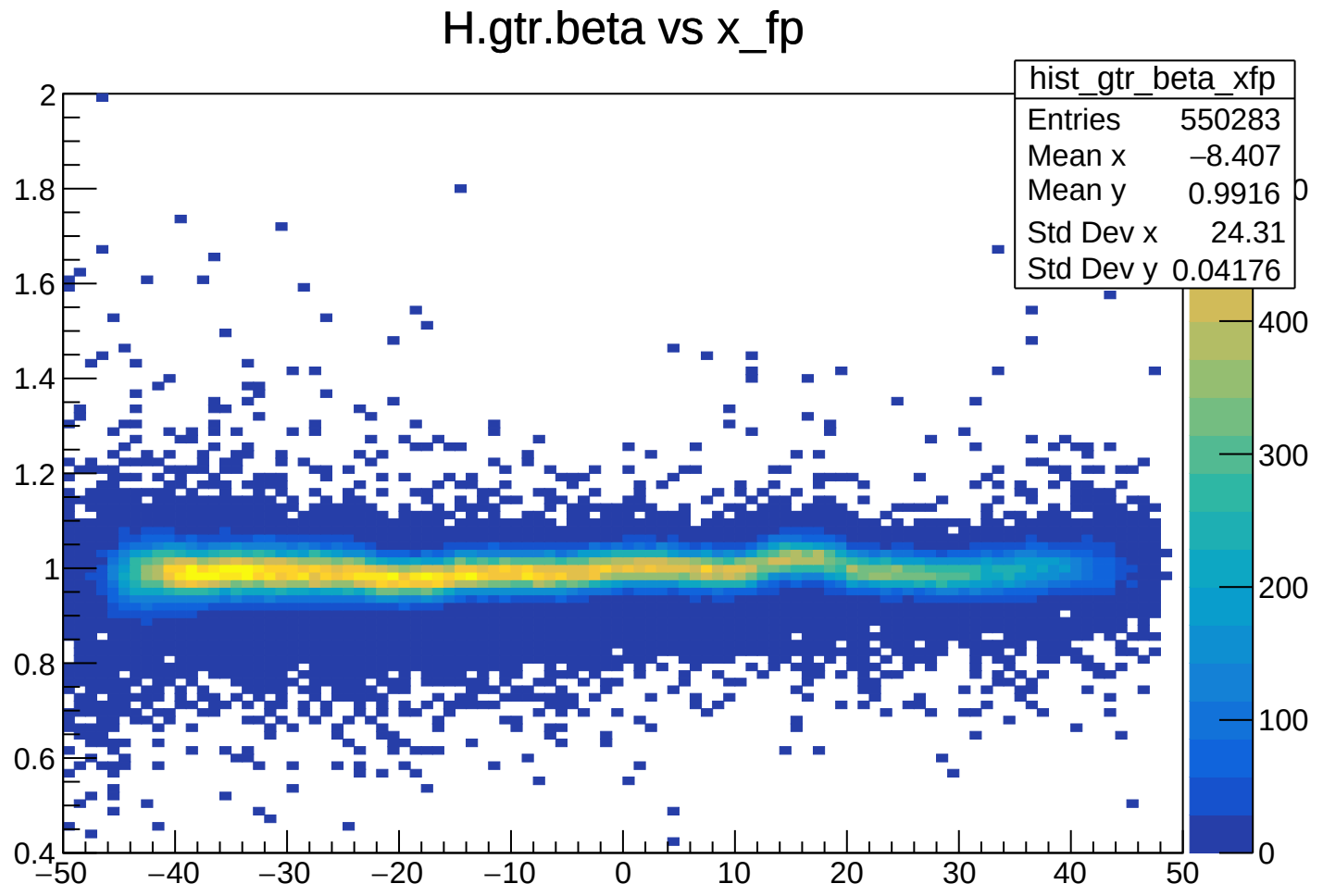

H.gtr.beta
Entries
Beta
Mean (no cuts) = 0.9938 ± 0.0001
Sigma (no cuts) = 0.0314 ± 0.0001
Mean (PID) = 0.9949 ± 0.0001
Sigma (PID) = 0.0302 ± 0.0001
Mean (PID & delta) = 0.9953 ± 0.0001
Sigma (PID & delta) = 0.0288 ± 0.0001
H.gtr.beta without cuts
Fit: H.gtr.beta without cuts
H.gtr.beta with PID cuts
Fit: H.gtr.beta with PID cuts
H.gtr.beta with PID and delta cuts
Fit: H.gtr.beta with PID and delta cuts

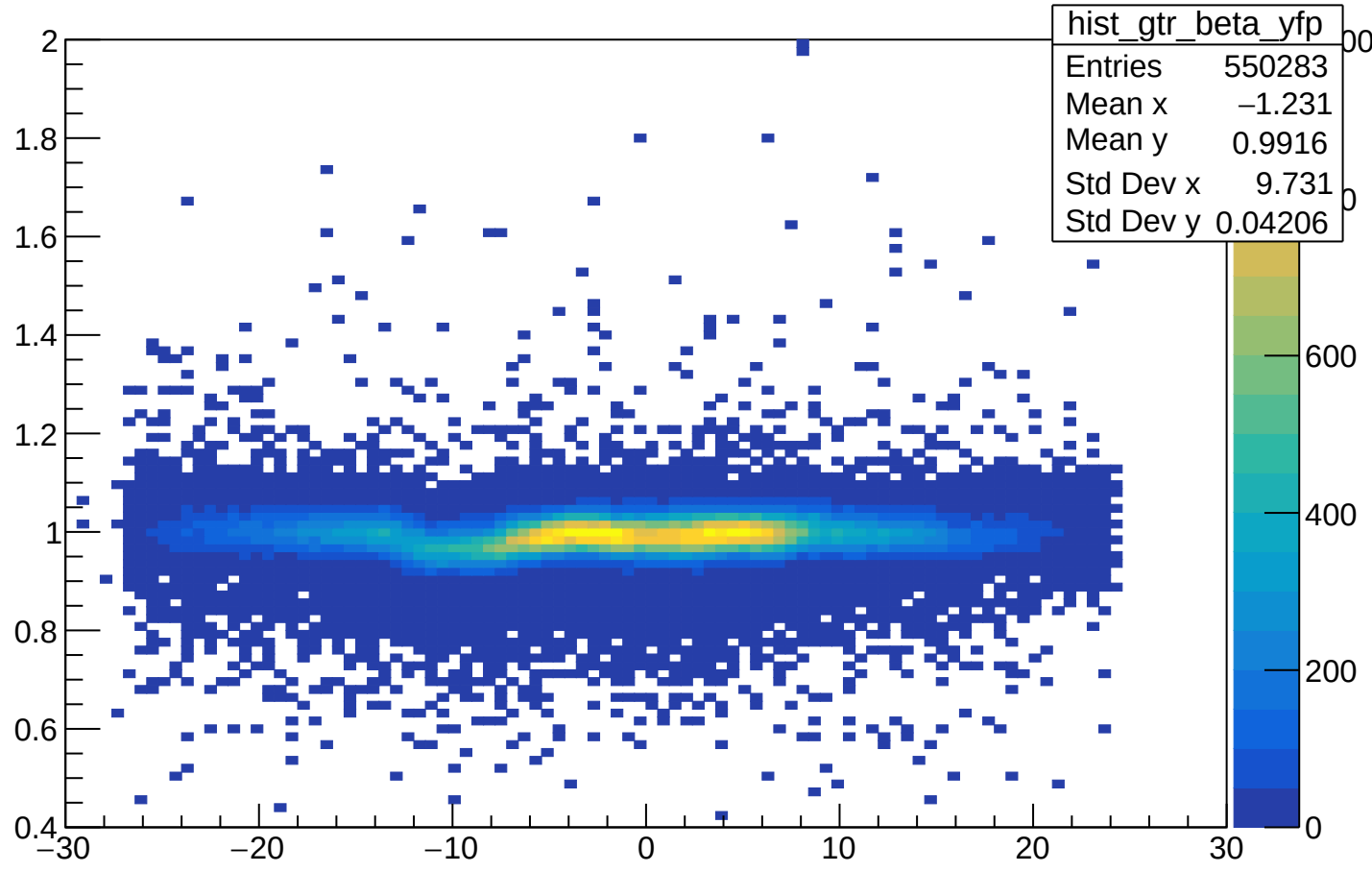

etottracknorm
hist_etottracknorm
Entries 550283
Mean 0.2411
Std Dev 0.4014
x = 0.7
10^5
10^4
10^3
10^2
10
1
0
1
2
3
4
5
6
7
8

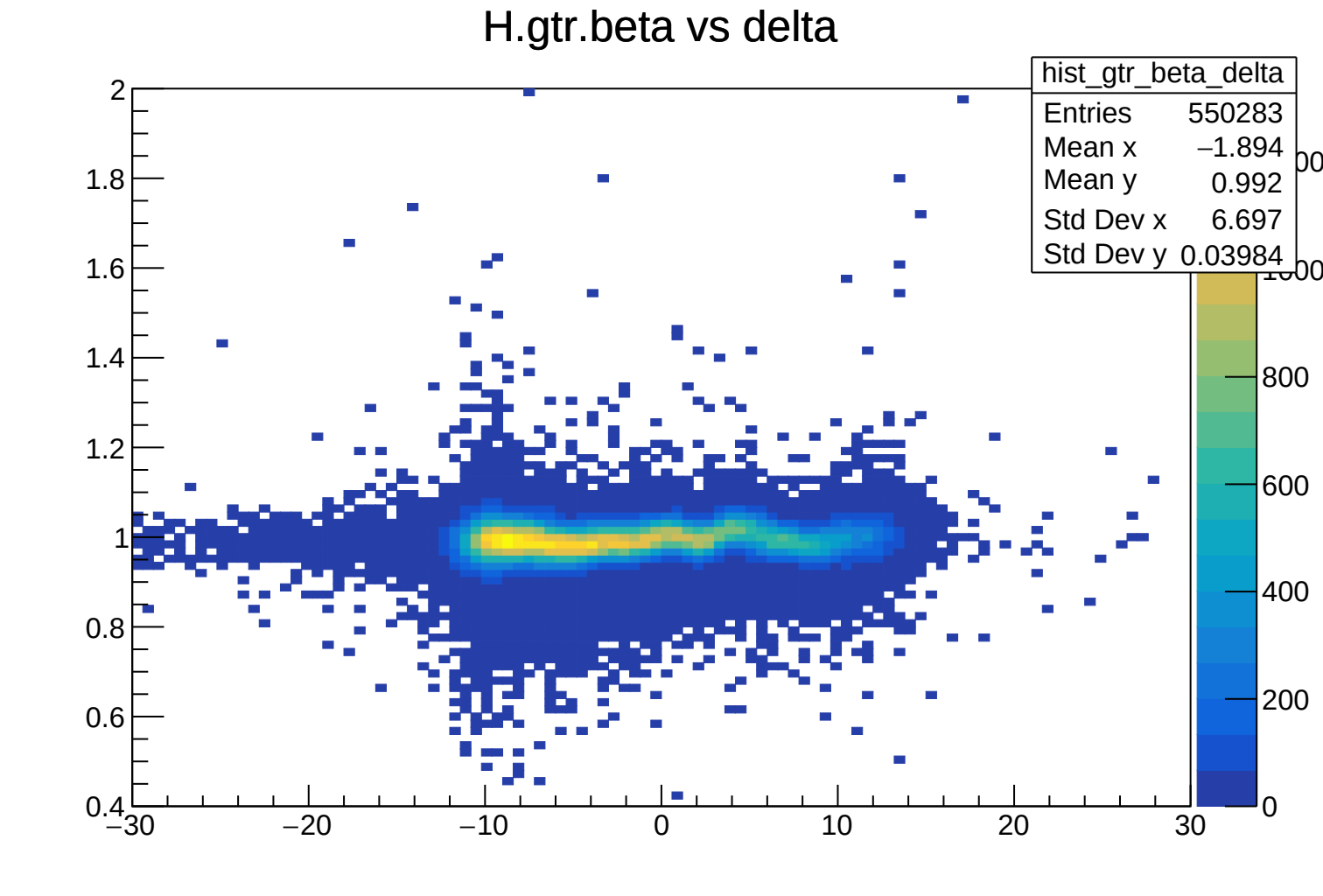

npeSum
hist_npeSum
Entries 550283
Mean 3.65
Std Dev 5.915
x = 0.7
10^5
10^4
10^3
10^2
10
1
0
10
20
30
40
50
60
70

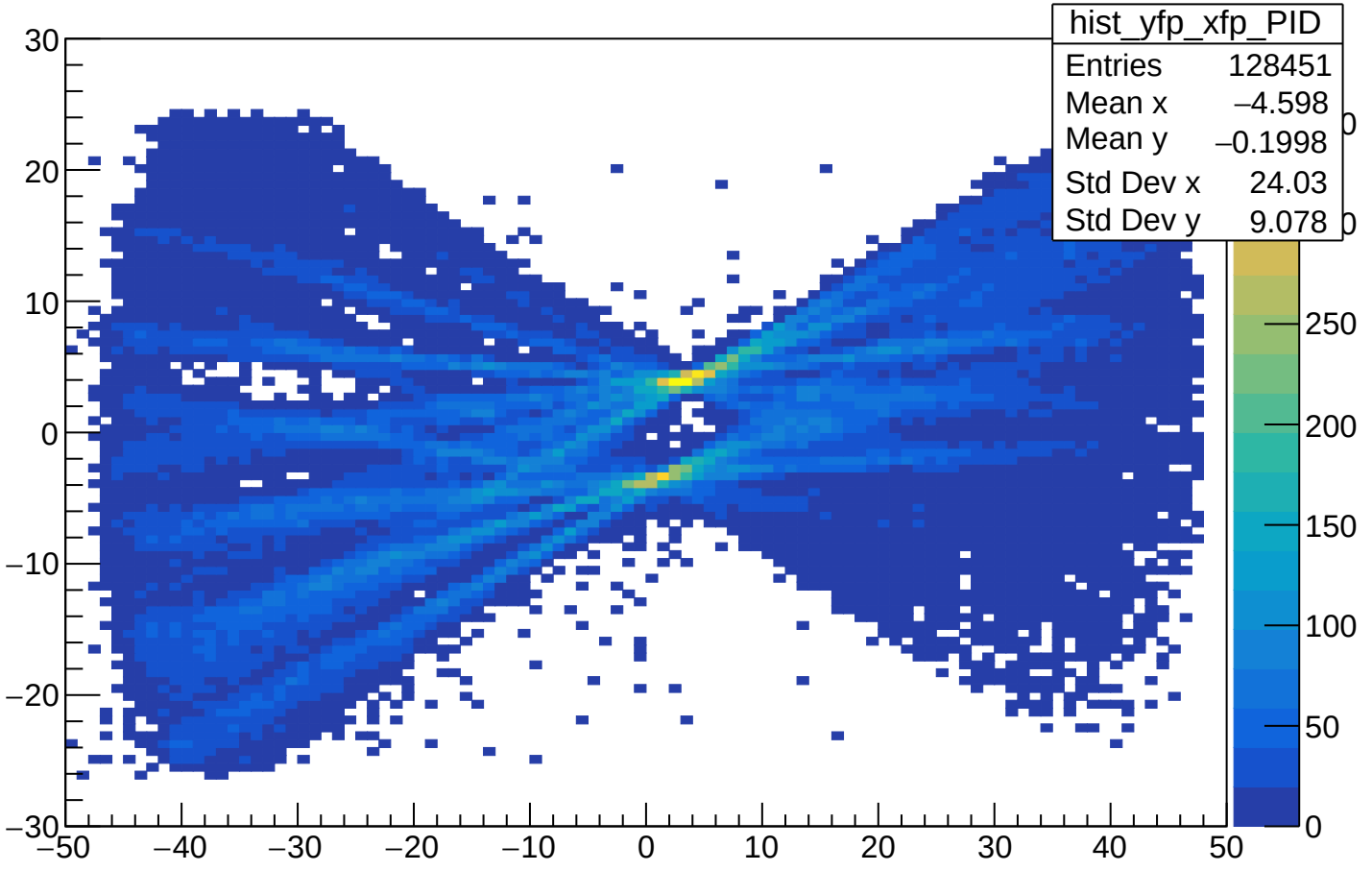

delta
hist_delta
Entries 550283
Mean −1.912
Std Dev 6.705
x = -8
x = 8
10^4
10^3
10^2
10
1
−30
−20
−10
0
10
20
30

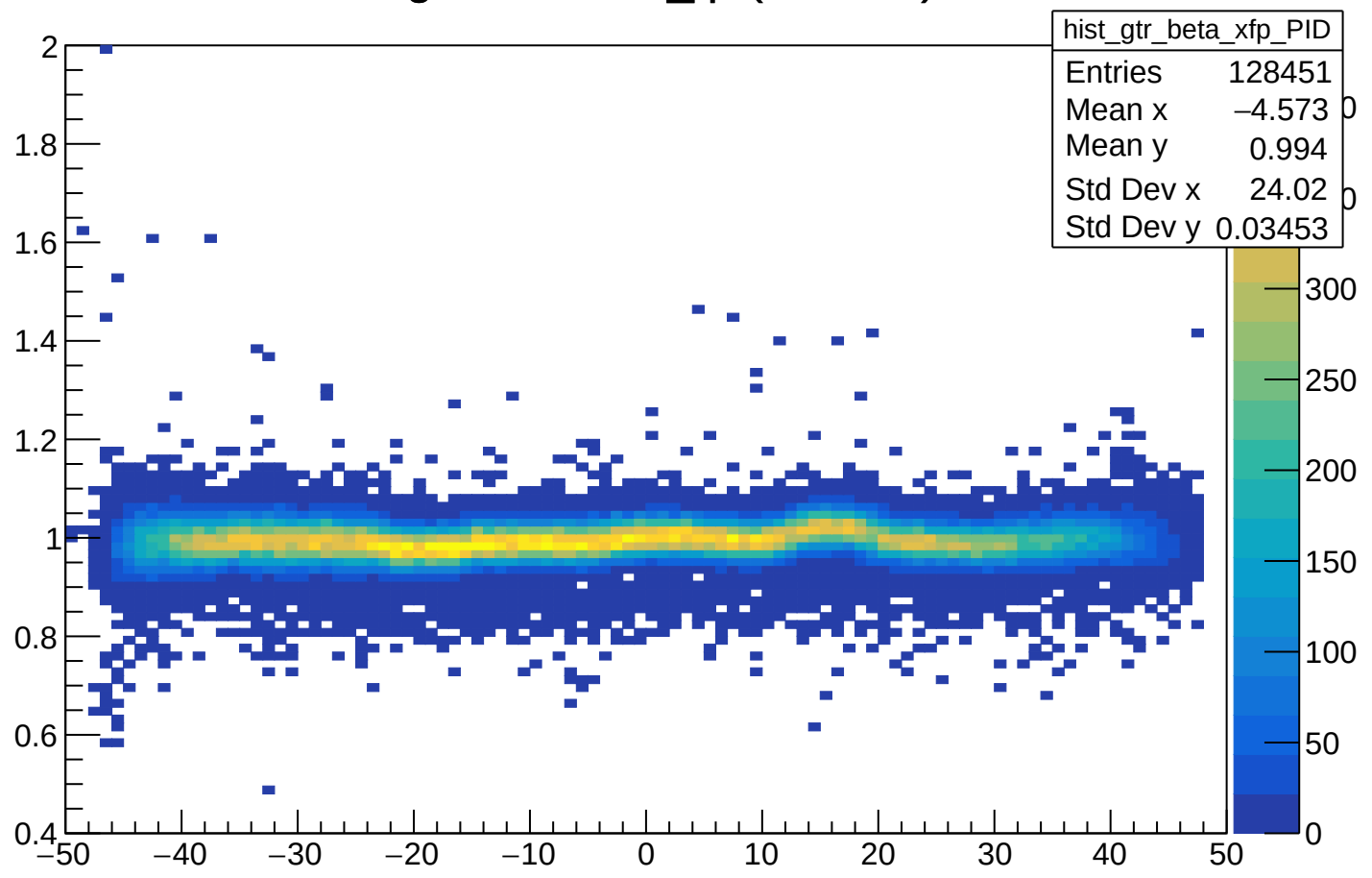

focal plane
hist_yfp_xfp
Entries 550283
Mean x −8.539
Mean y −1.25
Std Dev x 24.34
Std Dev y 9.772
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
300
250
200
150
100
50
0

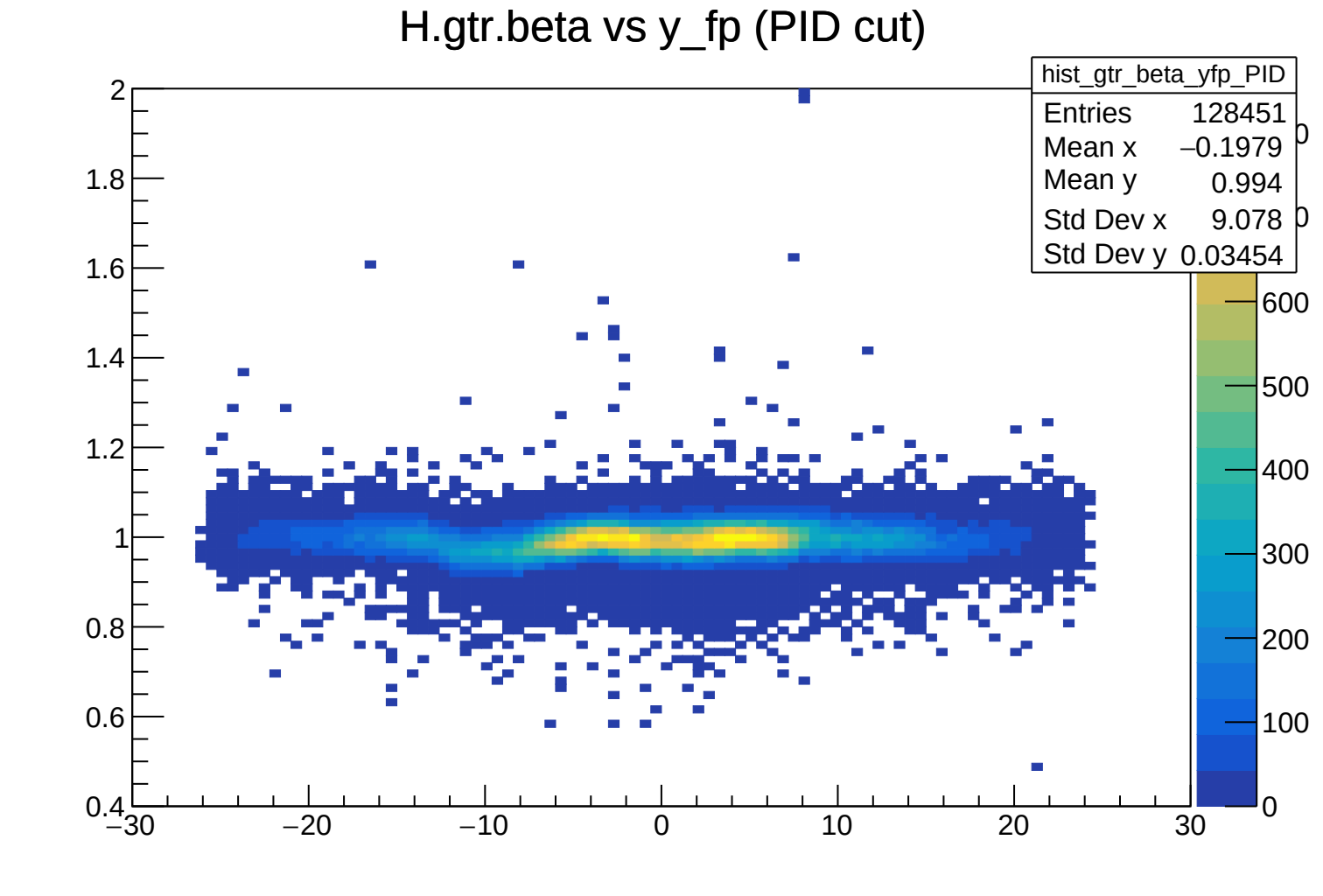

H.gtr.beta vs x_fp
hist_gtr_beta_xfp
Entries 550283
Mean x −8.407
Mean y 0.9916
Std Dev x 24.31
Std Dev y 0.04176
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−50
−40
−30
−20
−10
0
10
20
30
40
50
400
300
200
100
0

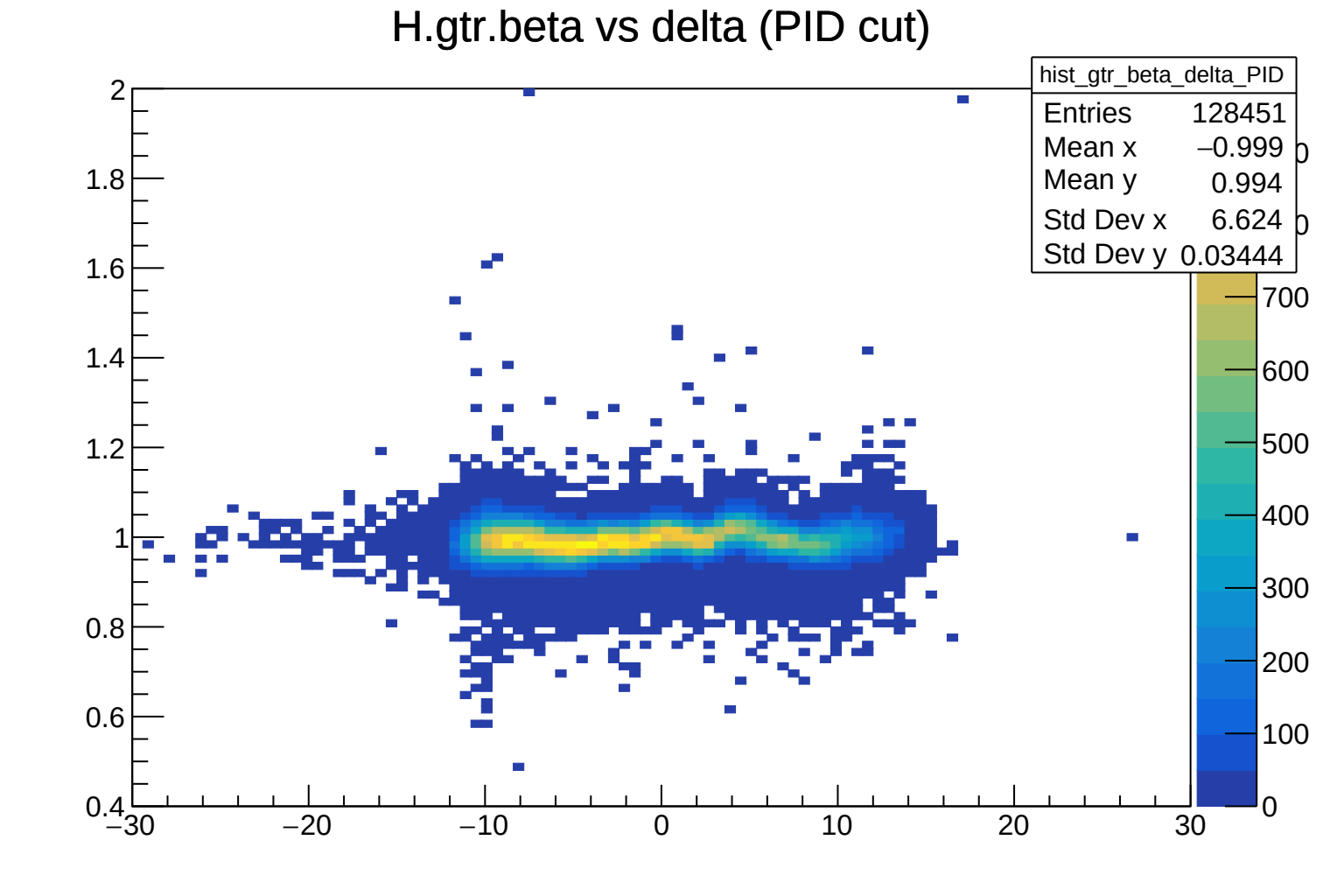

H.gtr.beta vs y_fp
hist_gtr_beta_yfp
Entries 550283
Mean x −1.231
Mean y 0.9916
Std Dev x 9.731
Std Dev y 0.04206
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
600
400
200
0

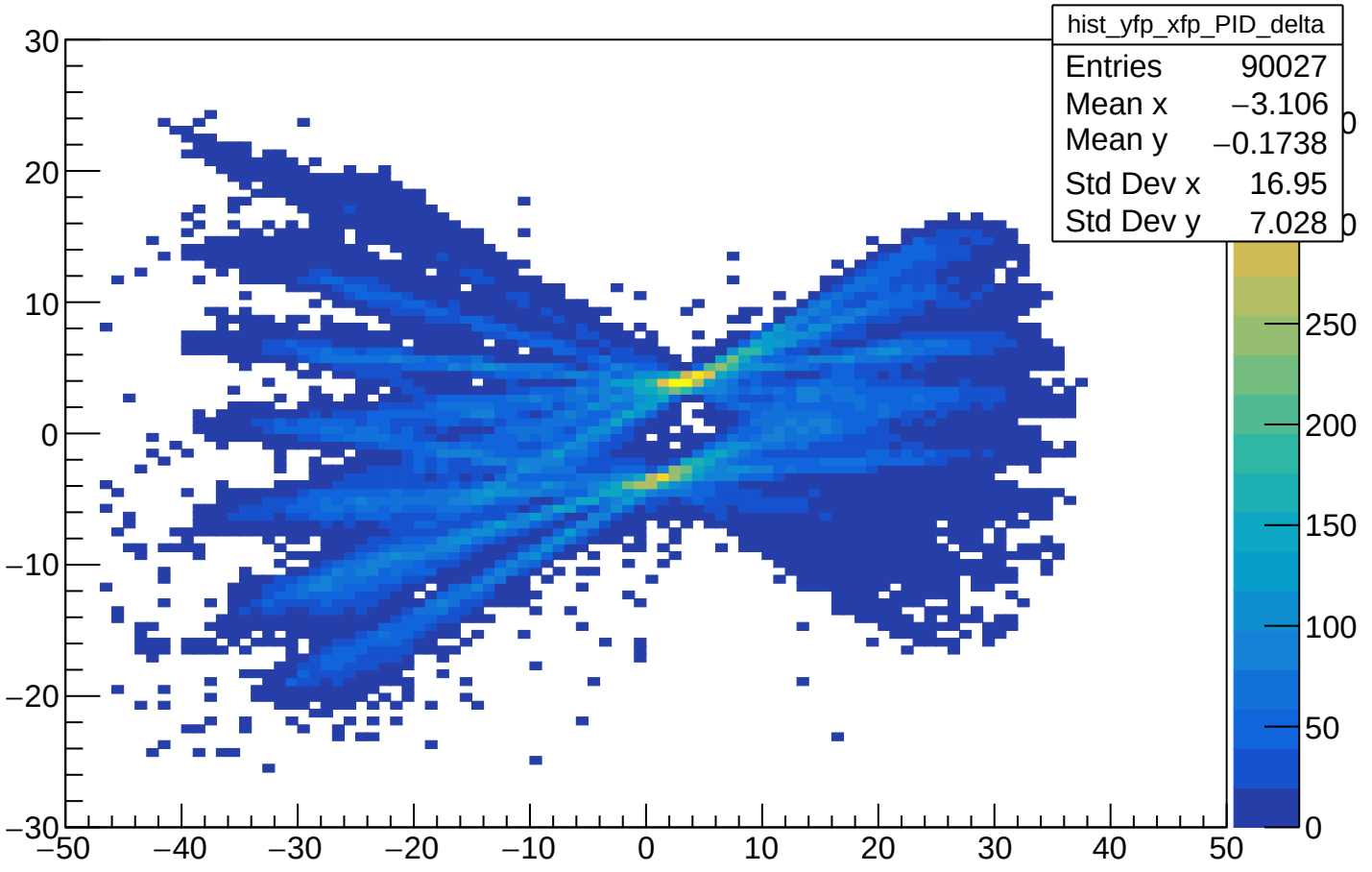

H.gtr.beta vs delta
hist_gtr_beta_delta
Entries 550283
Mean x −1.894
Mean y 0.992
Std Dev x 6.697
Std Dev y 0.03984
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
800
600
400
200
0

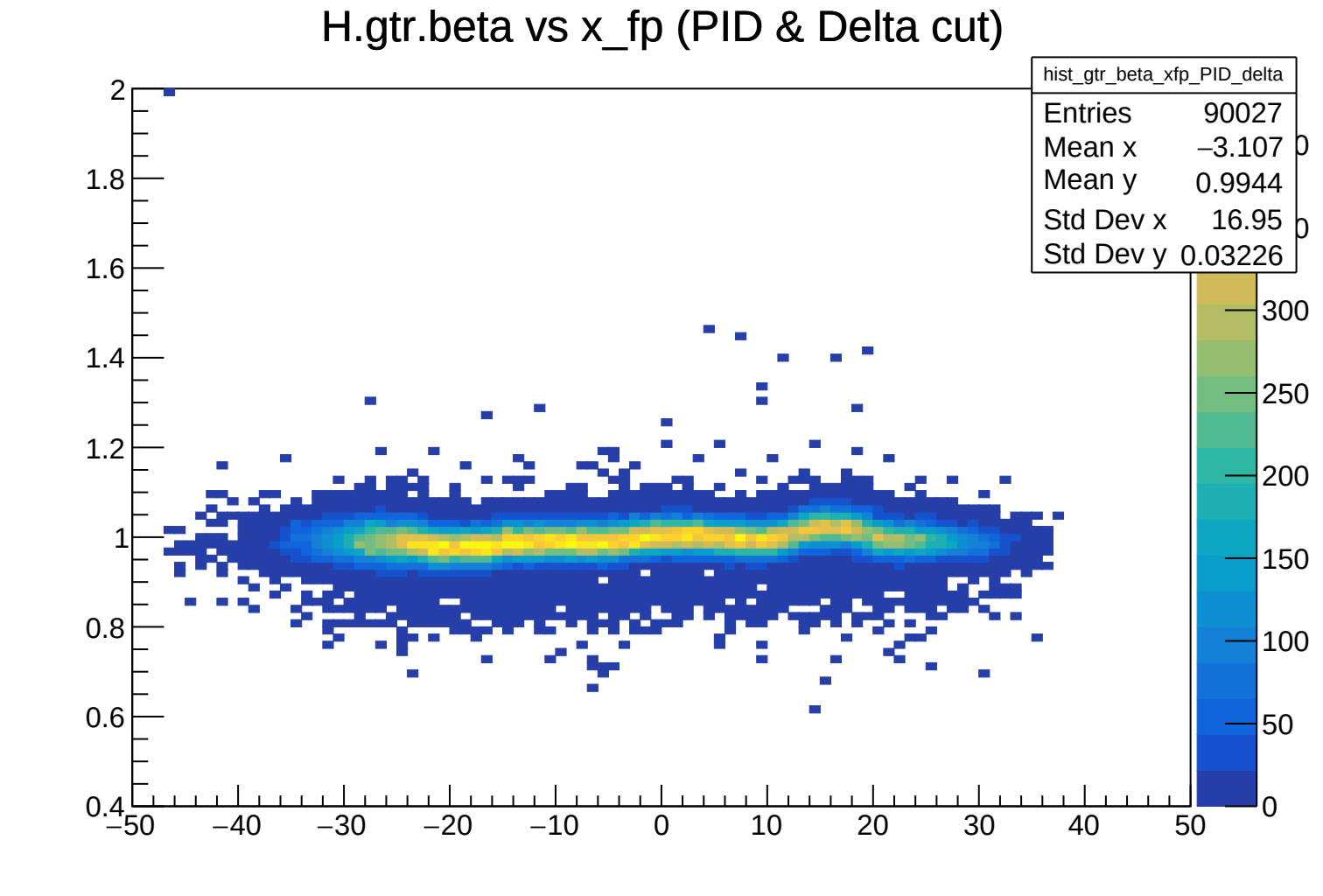

focal plane (PID cut)
hist_yfp_xfp_PID
Entries 128451
Mean x –4.598
Mean y –0.1998
Std Dev x 24.03
Std Dev y 9.078
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
250
200
150
100
50
0

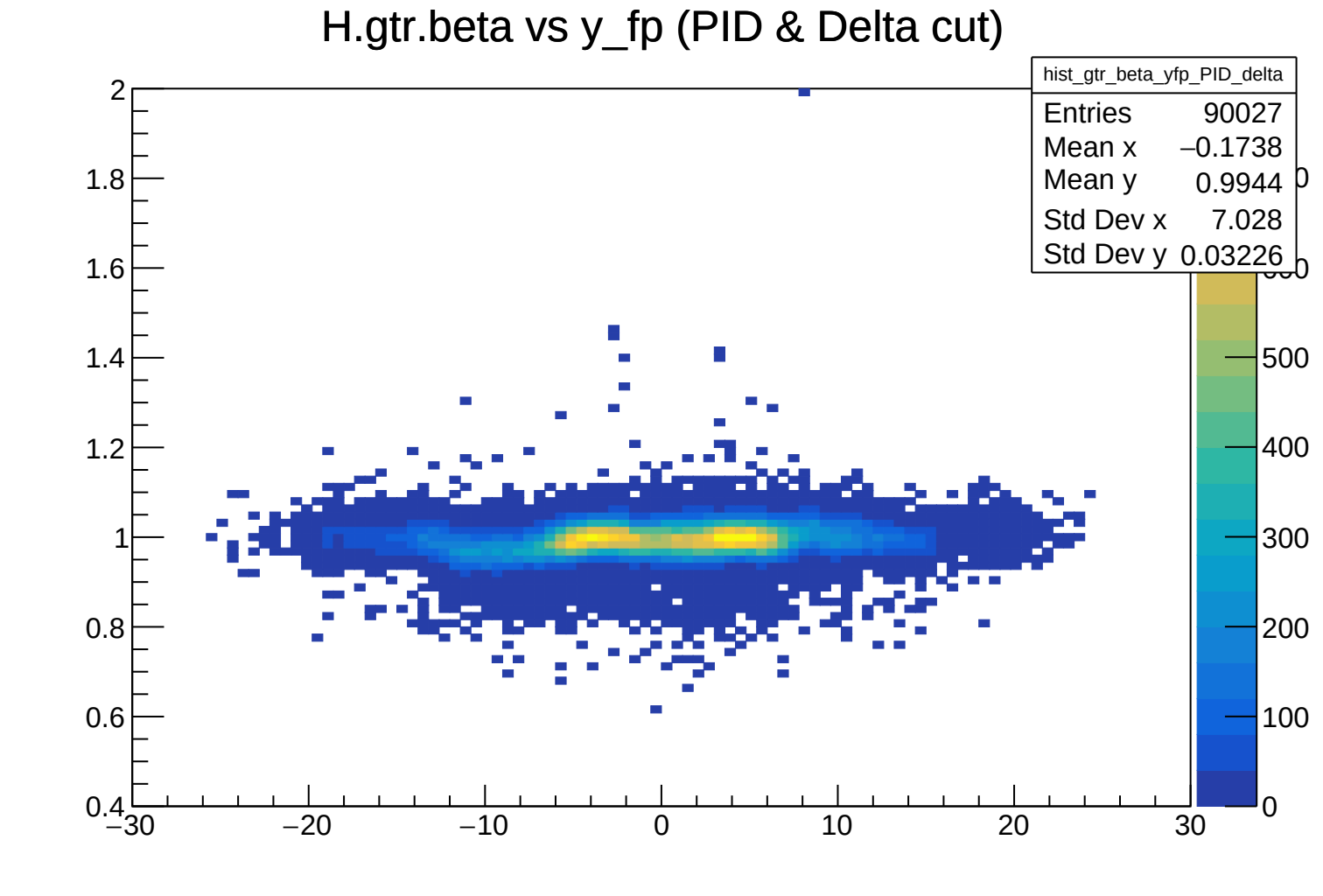

H.gtr.beta vs x_fp (PID cut)
hist_gtr_beta_xfp_PID
Entries 128451
Mean x −4.573
Mean y 0.994
Std Dev x 24.02
Std Dev y 0.03453
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−50
−40
−30
−20
−10
0
10
20
30
40
50
300
250
200
150
100
50
0

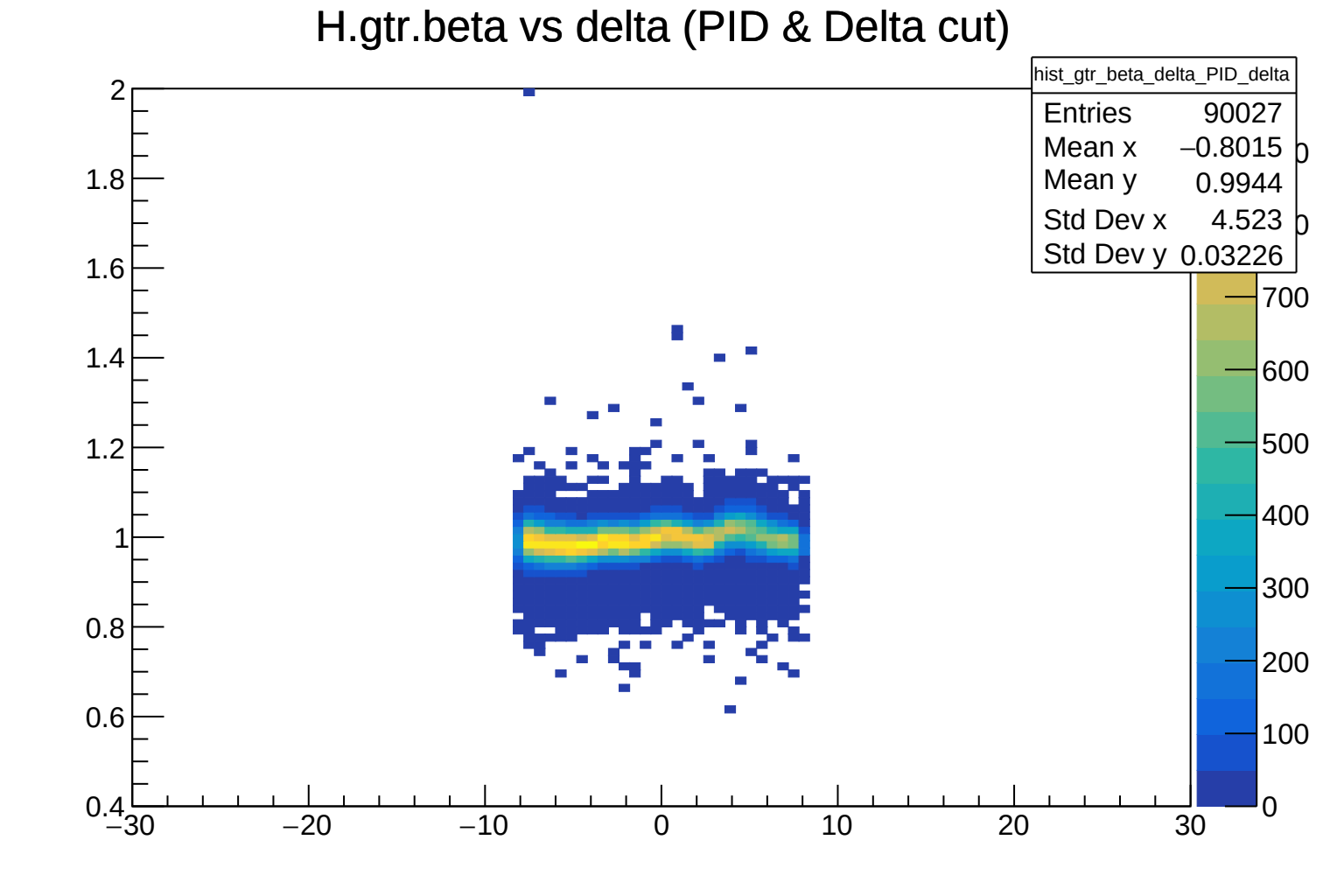

H.gtr.beta vs y_fp (PID cut)
hist_gtr_beta_yfp_PID
Entries 128451
Mean x –0.1979
Mean y 0.994
Std Dev x 9.078
Std Dev y 0.03454
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
–30
–20
–10
0
10
20
30
600
500
400
300
200
100
0


H.gtr.beta vs delta (PID cut)
hist_gtr_beta_delta_PID
Entries 128451
Mean x −0.999
Mean y 0.994
Std Dev x 6.624
Std Dev y 0.03444
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
700
600
500
400
300
200
100
0


focal plane (PID & Delta cut)
hist_yfp_xfp_PID_delta
Entries 90027
Mean x −3.106
Mean y −0.1738
Std Dev x 16.95
Std Dev y 7.028
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 90027
Mean x −3.107
Mean y 0.9944
Std Dev x 16.95
Std Dev y 0.03226
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
300
250
200
150
100
50
0


H.gtr.beta vs y_fp (PID & Delta cut)
hist_gtr_beta_yfp_PID_delta
Entries 90027
Mean x −0.1738
Mean y 0.9944
Std Dev x 7.028
Std Dev y 0.03226
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
500
400
300
200
100
0


H.gtr.beta vs delta (PID & Delta cut)
hist_gtr_beta_delta_PID_delta
Entries 90027
Mean x −0.8015
Mean y 0.9944
Std Dev x 4.523
Std Dev y 0.03226
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
700
600
500
400
300
200
100
0