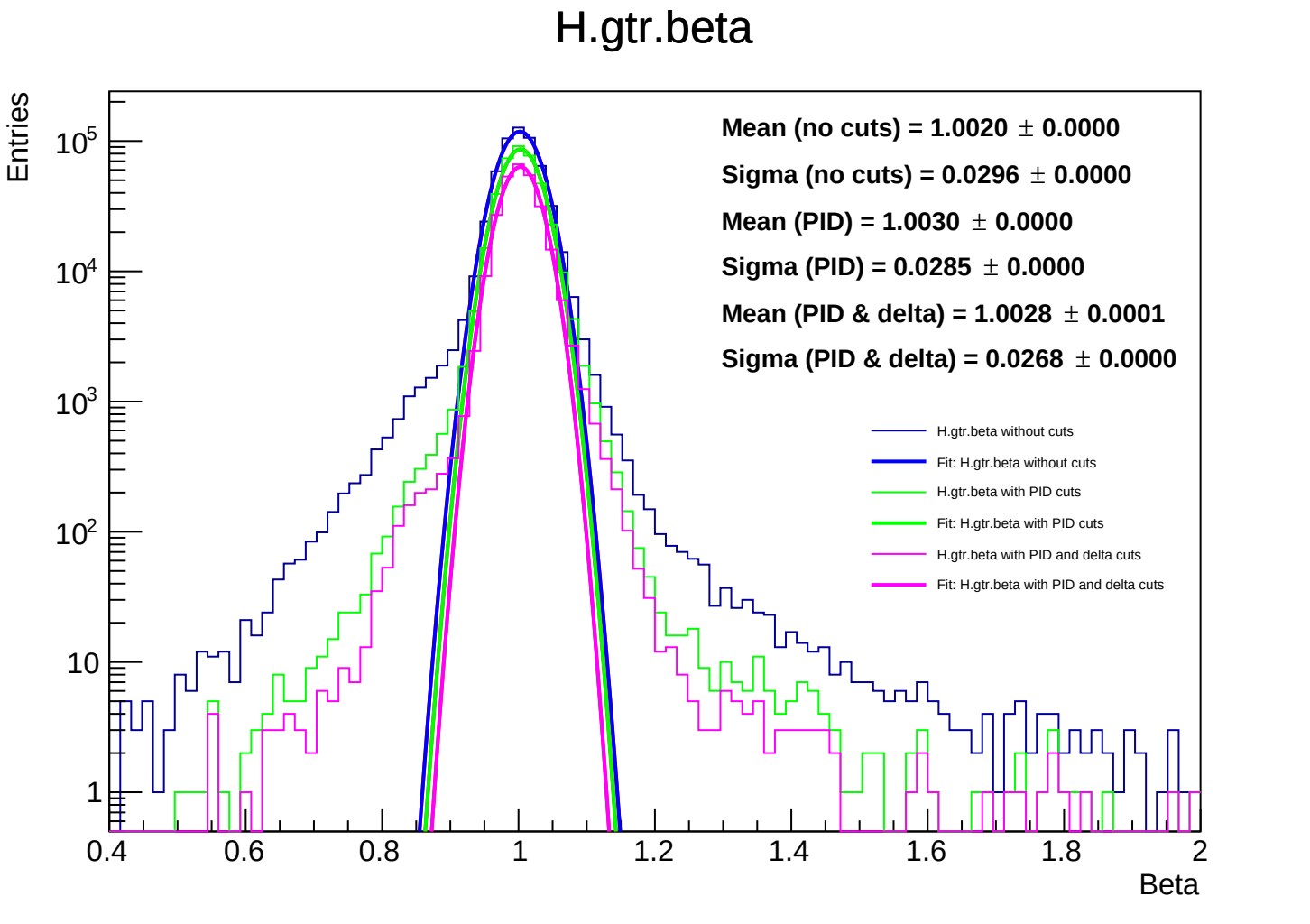
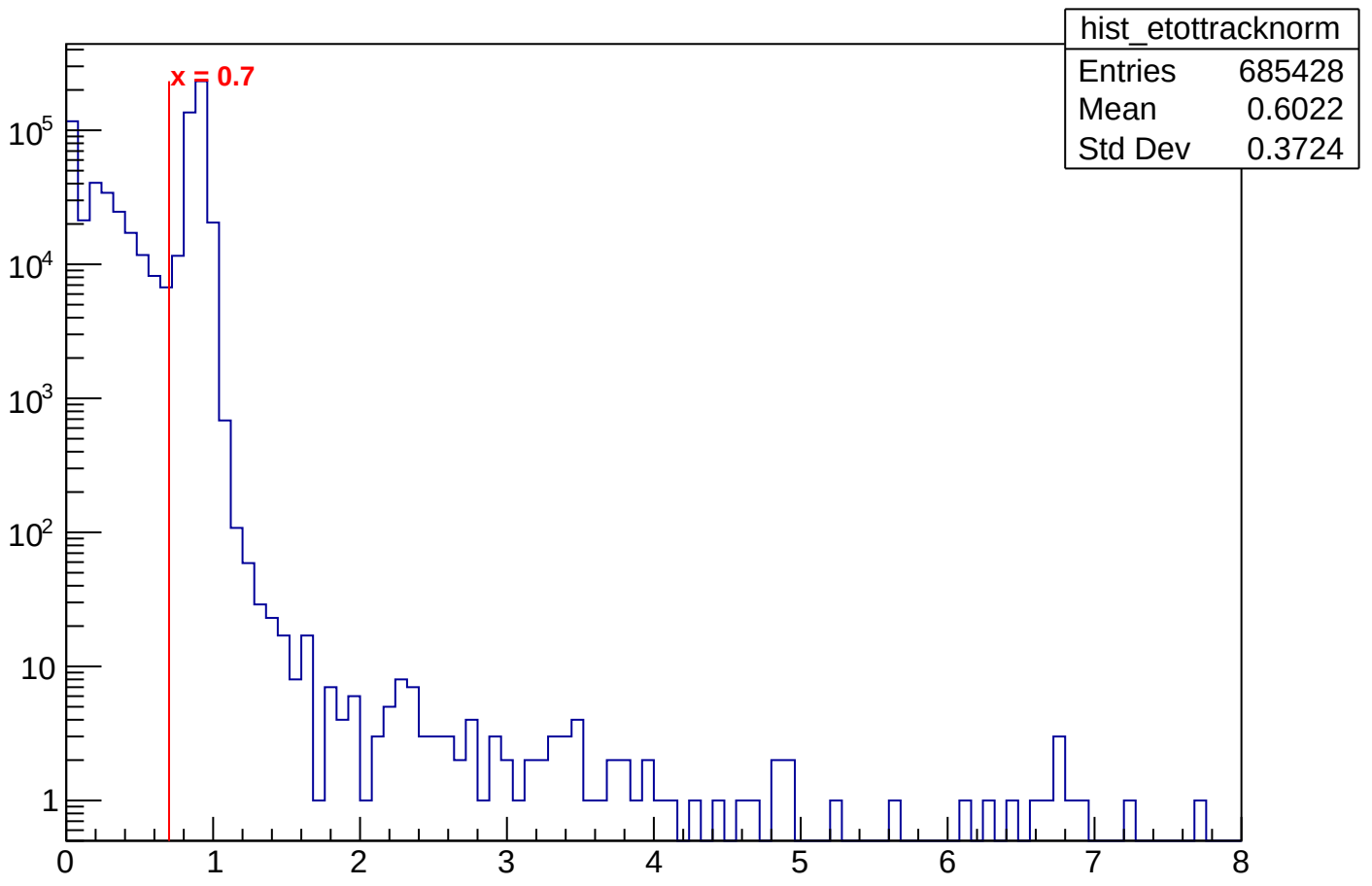
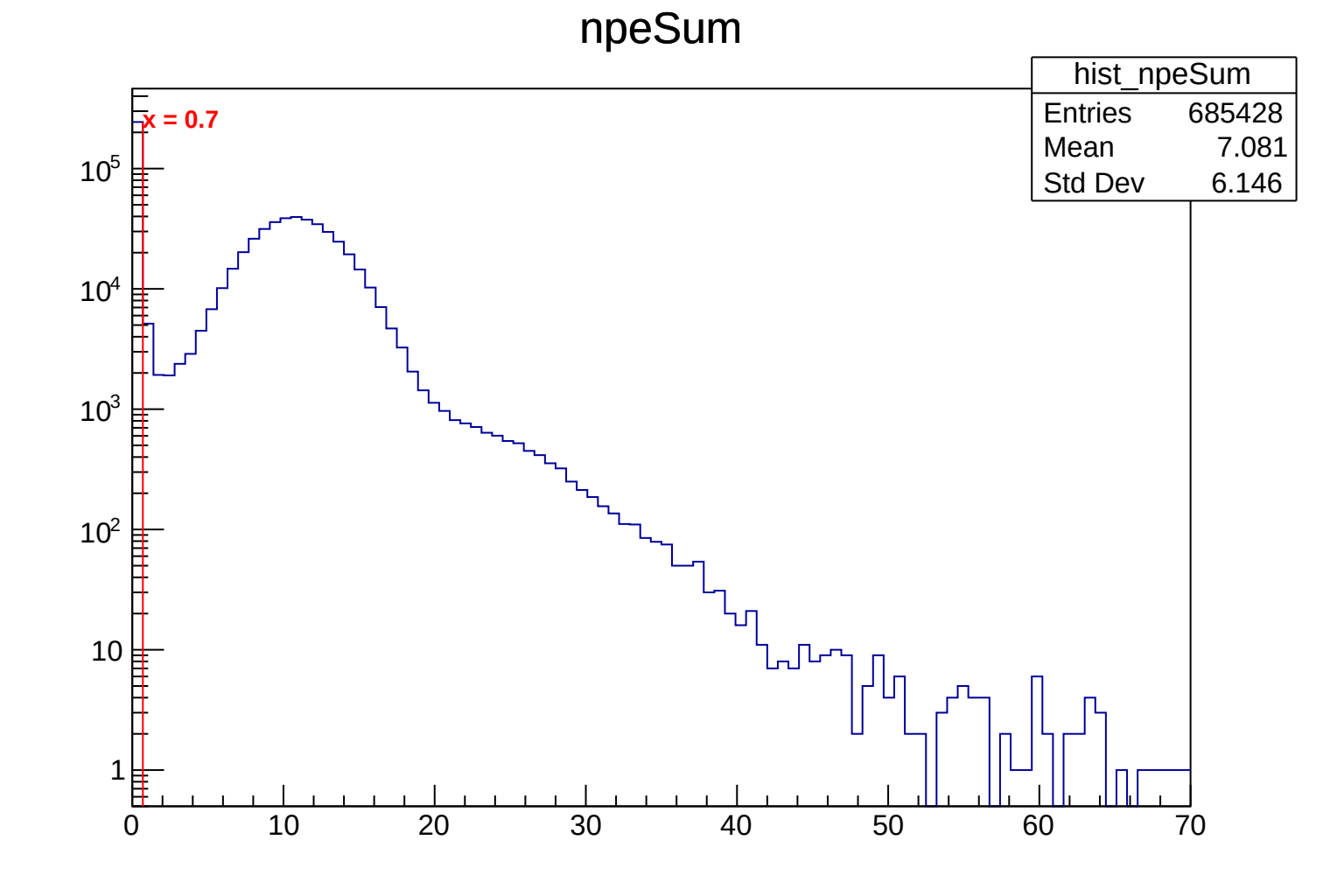
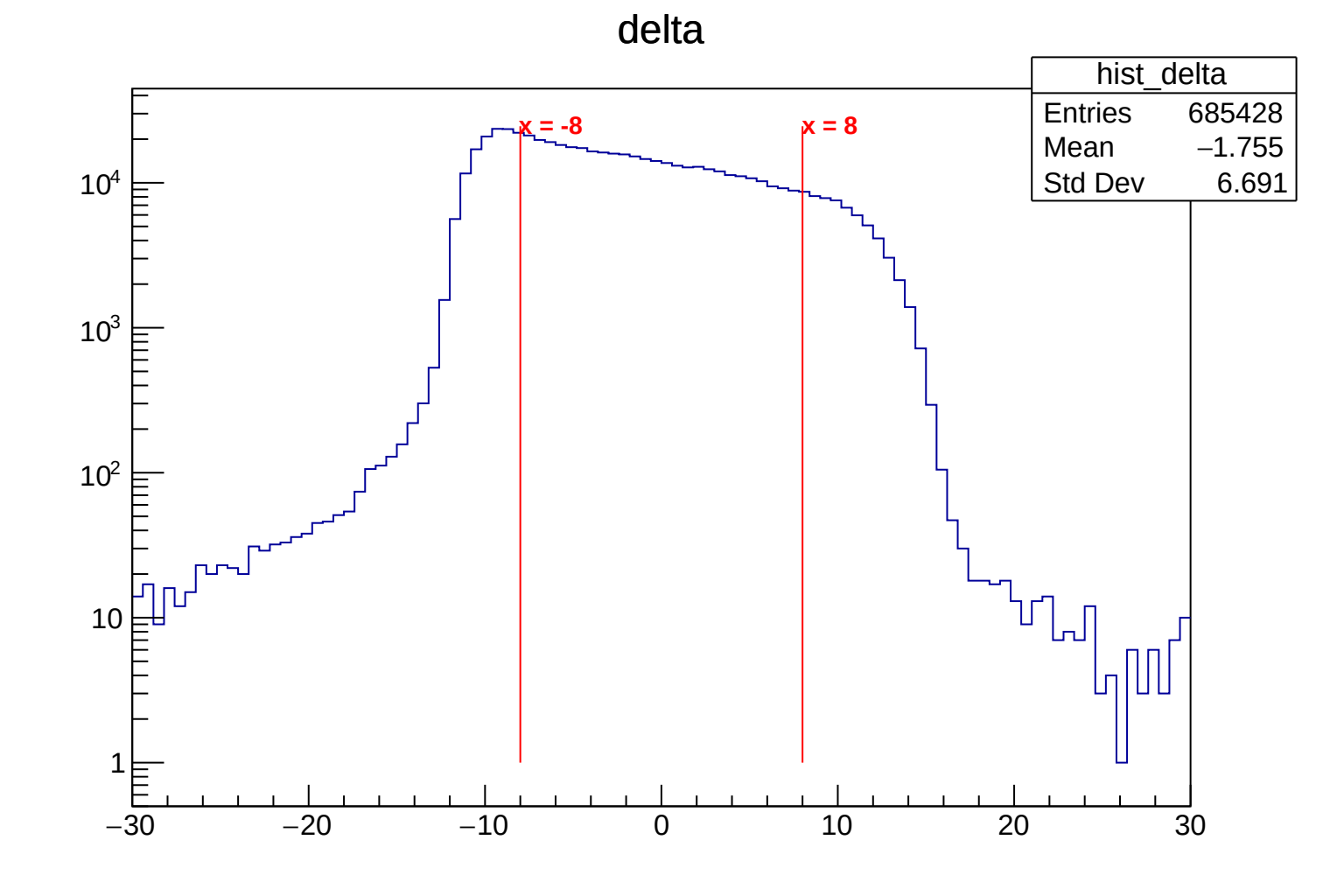
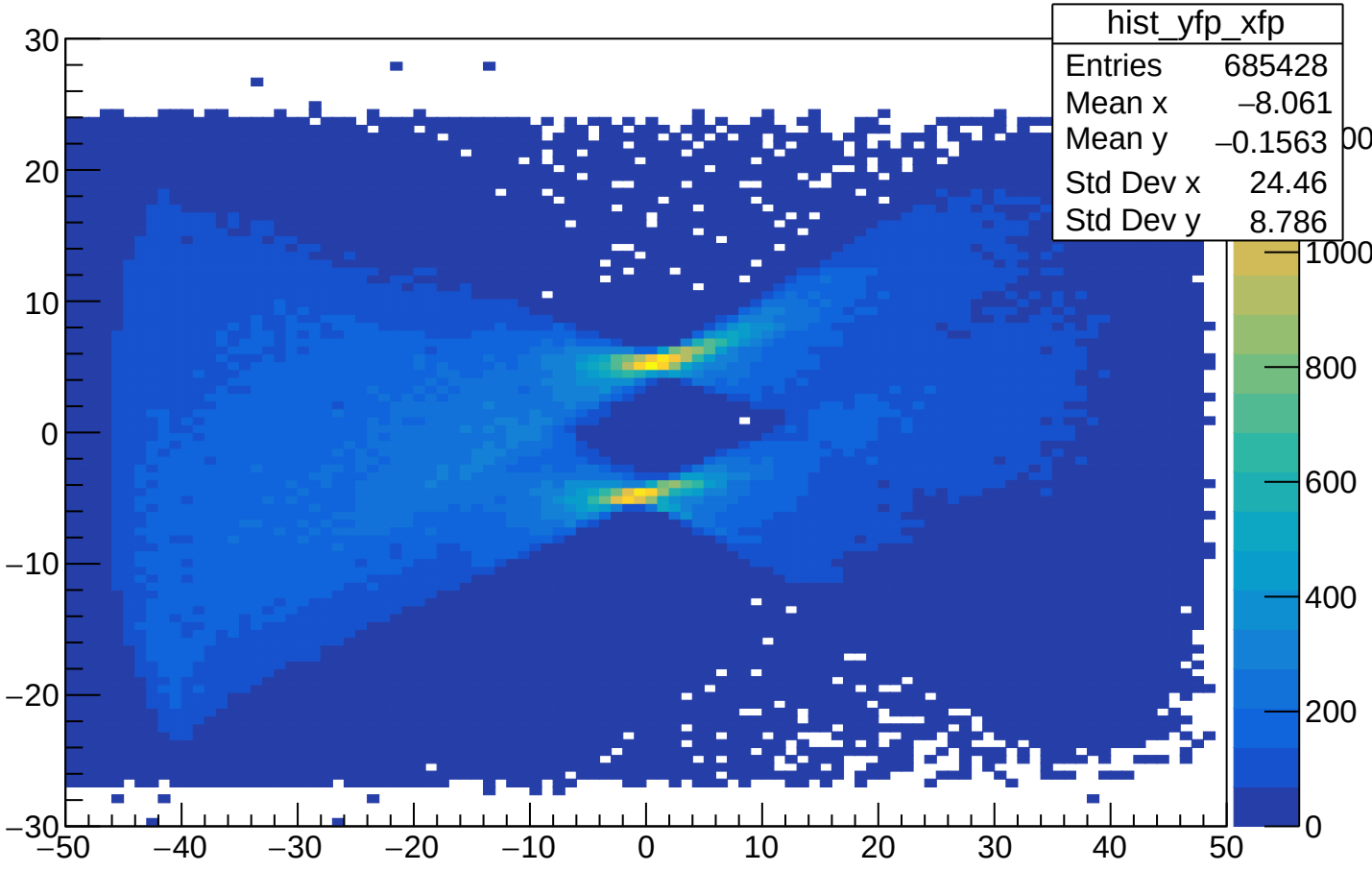
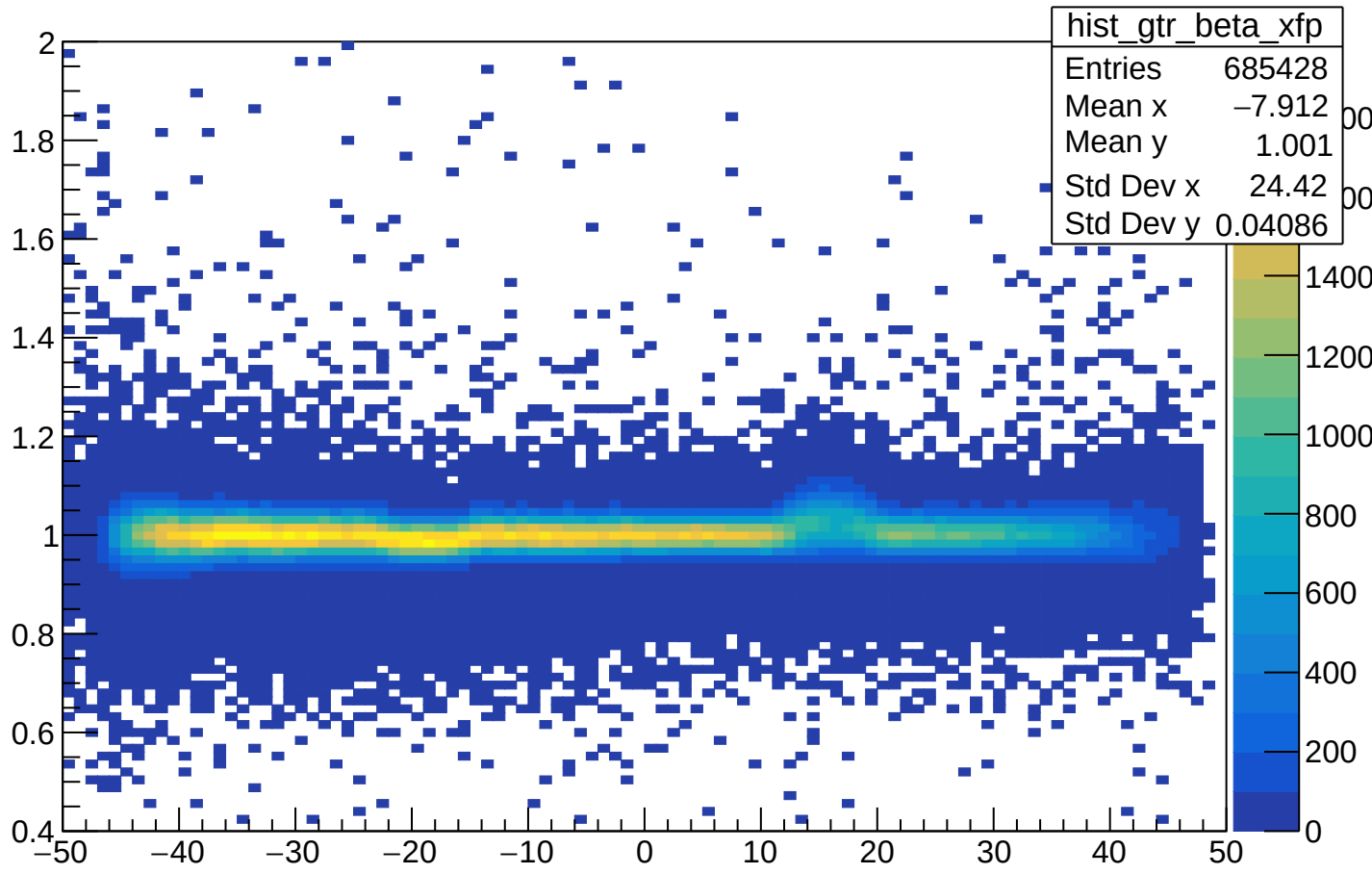

H.gtr.beta
Entries
Beta
Mean (no cuts) = 1.0020 ± 0.0000
Sigma (no cuts) = 0.0296 ± 0.0000
Mean (PID) = 1.0030 ± 0.0000
Sigma (PID) = 0.0285 ± 0.0000
Mean (PID & delta) = 1.0028 ± 0.0001
Sigma (PID & delta) = 0.0268 ± 0.0000
H.gtr.beta without cuts
Fit: H.gtr.beta without cuts
H.gtr.beta with PID cuts
Fit: H.gtr.beta with PID cuts
H.gtr.beta with PID and delta cuts
Fit: H.gtr.beta with PID and delta cuts

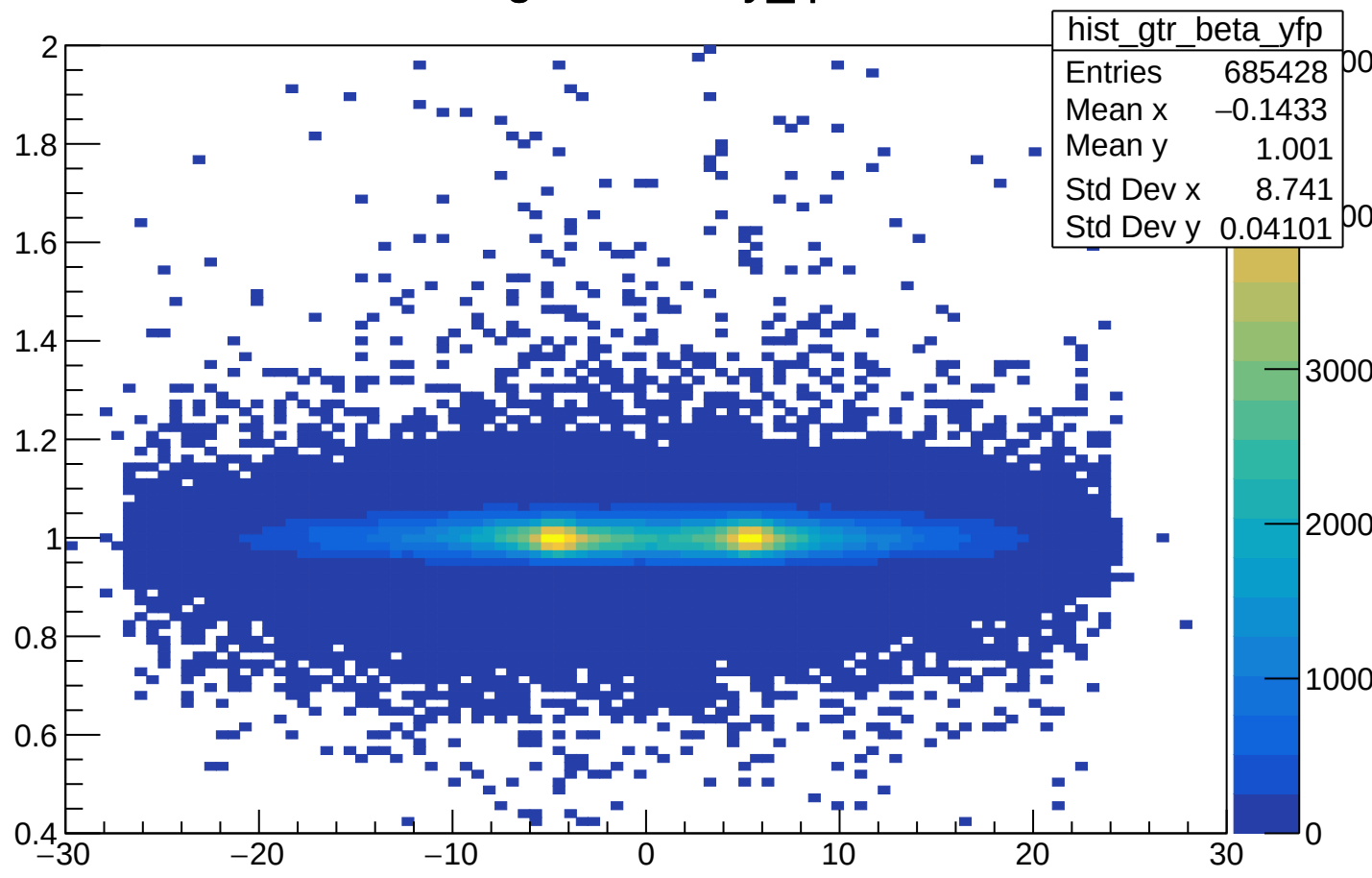

etottracknorm
hist_etottracknorm
Entries 685428
Mean 0.6022
Std Dev 0.3724
x = 0.7
$10^5$
$10^4$
$10^3$
$10^2$
10
1
0
1
2
3
4
5
6
7
8

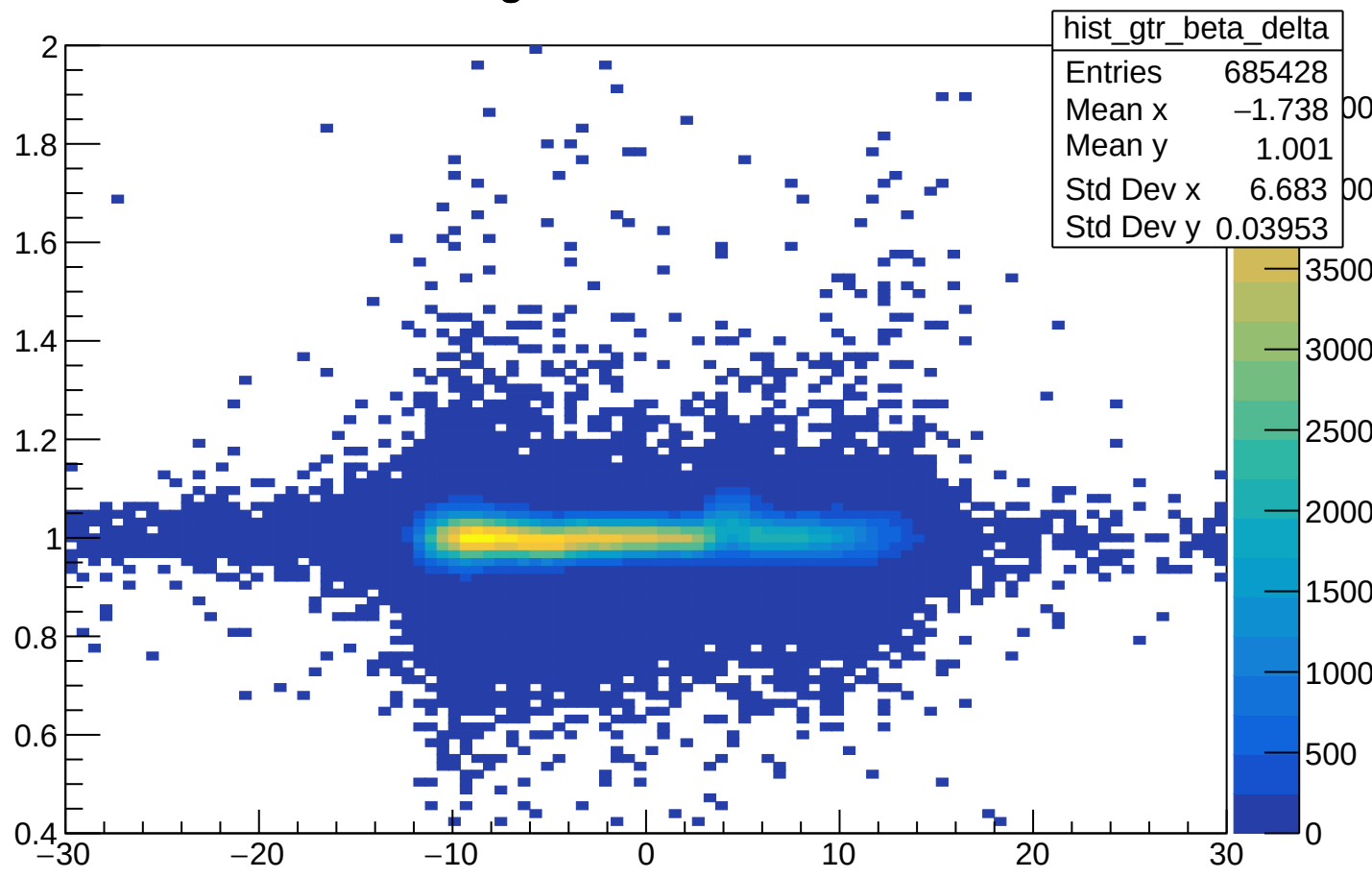

npeSum
hist_npeSum
Entries 685428
Mean 7.081
Std Dev 6.146
x = 0.7
$10^5$
$10^4$
$10^3$
$10^2$
10
1
0
10
20
30
40
50
60
70

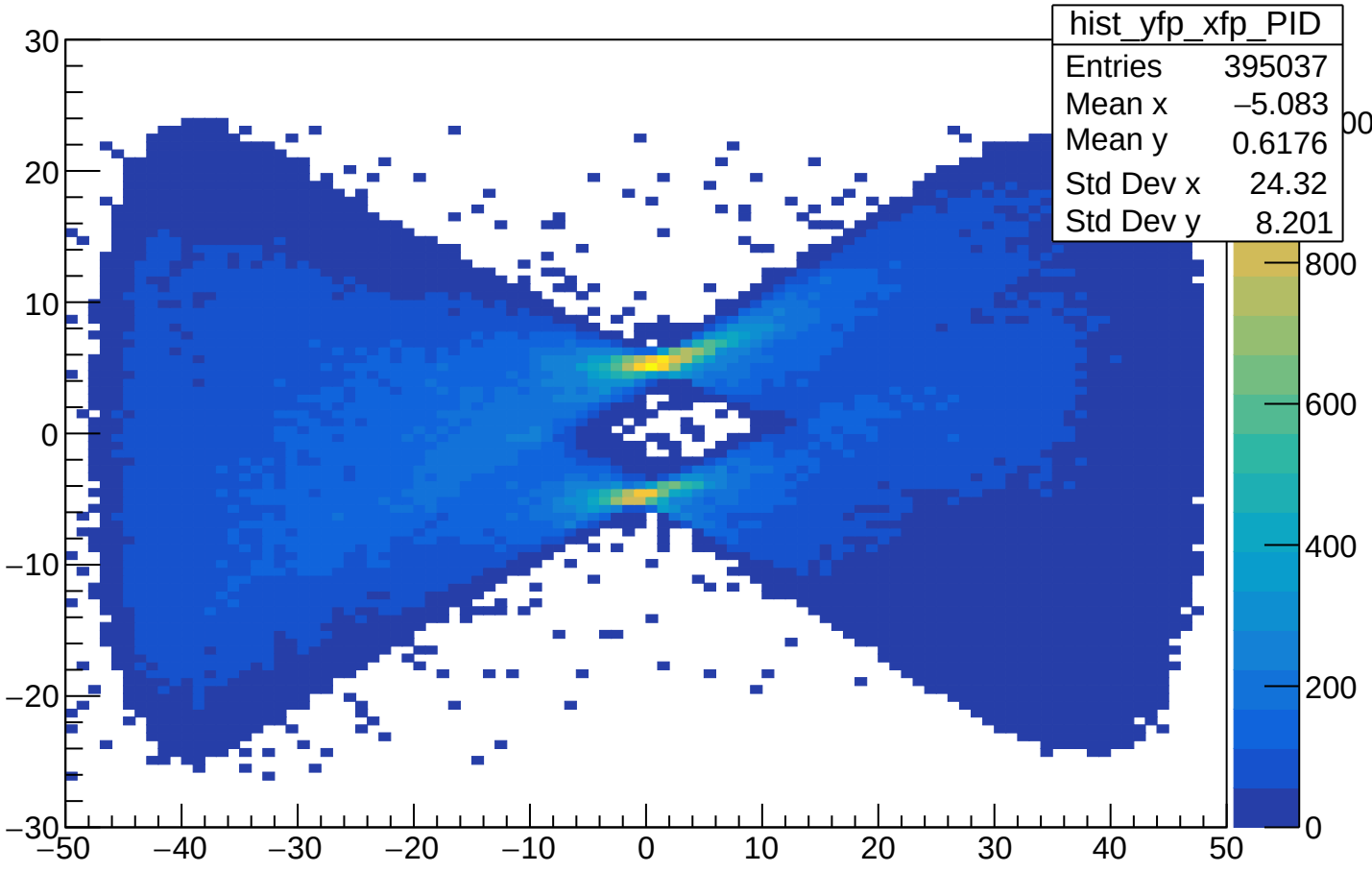

delta
hist_delta
Entries 685428
Mean −1.755
Std Dev 6.691
x = -8
x = 8
10^4
10^3
10^2
10
1
−30
−20
−10
0
10
20
30

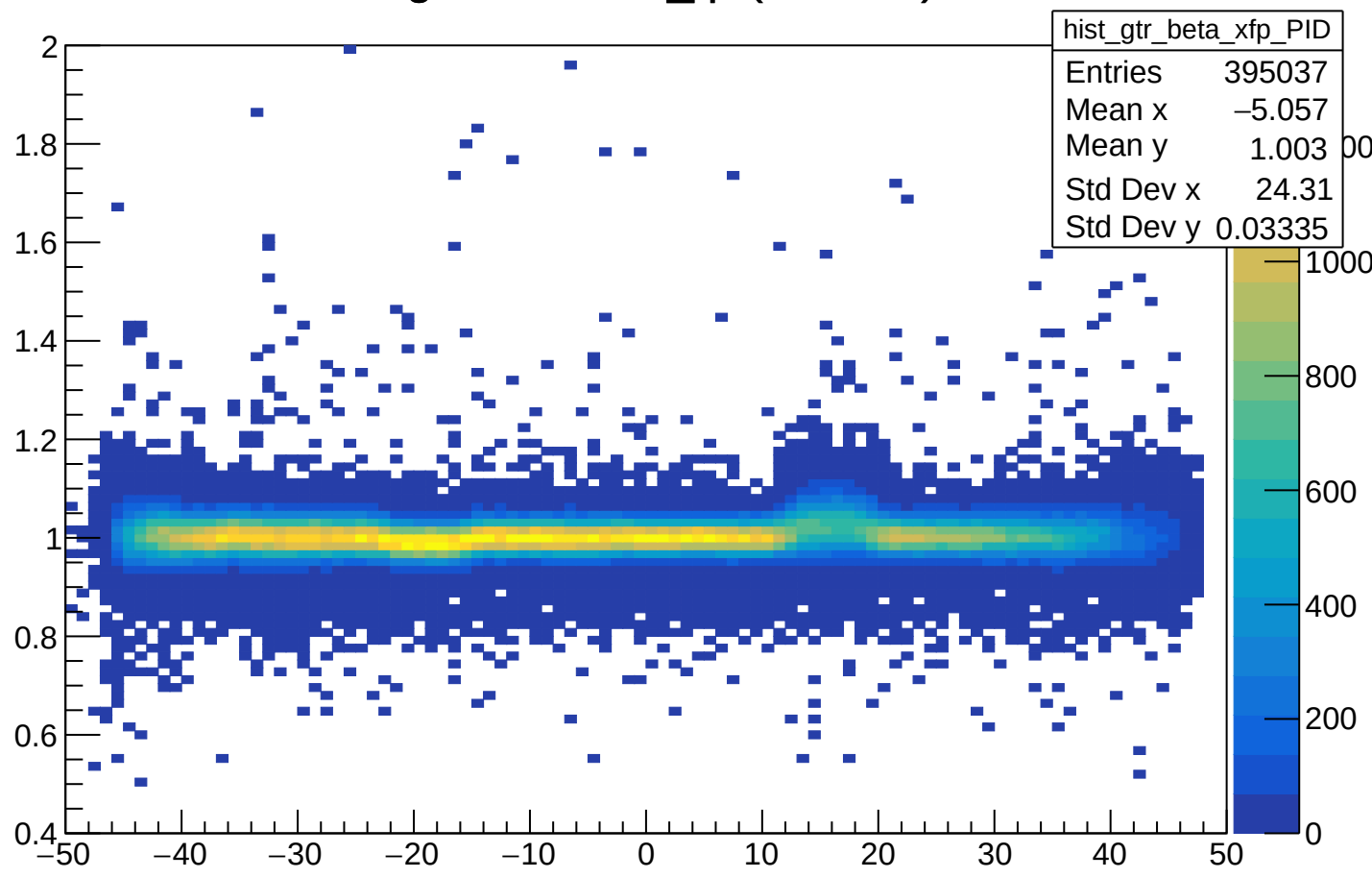

focal plane
hist_yfp_xfp
Entries 685428
Mean x −8.061
Mean y −0.1563
Std Dev x 24.46
Std Dev y 8.786
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
1000
800
600
400
200
0

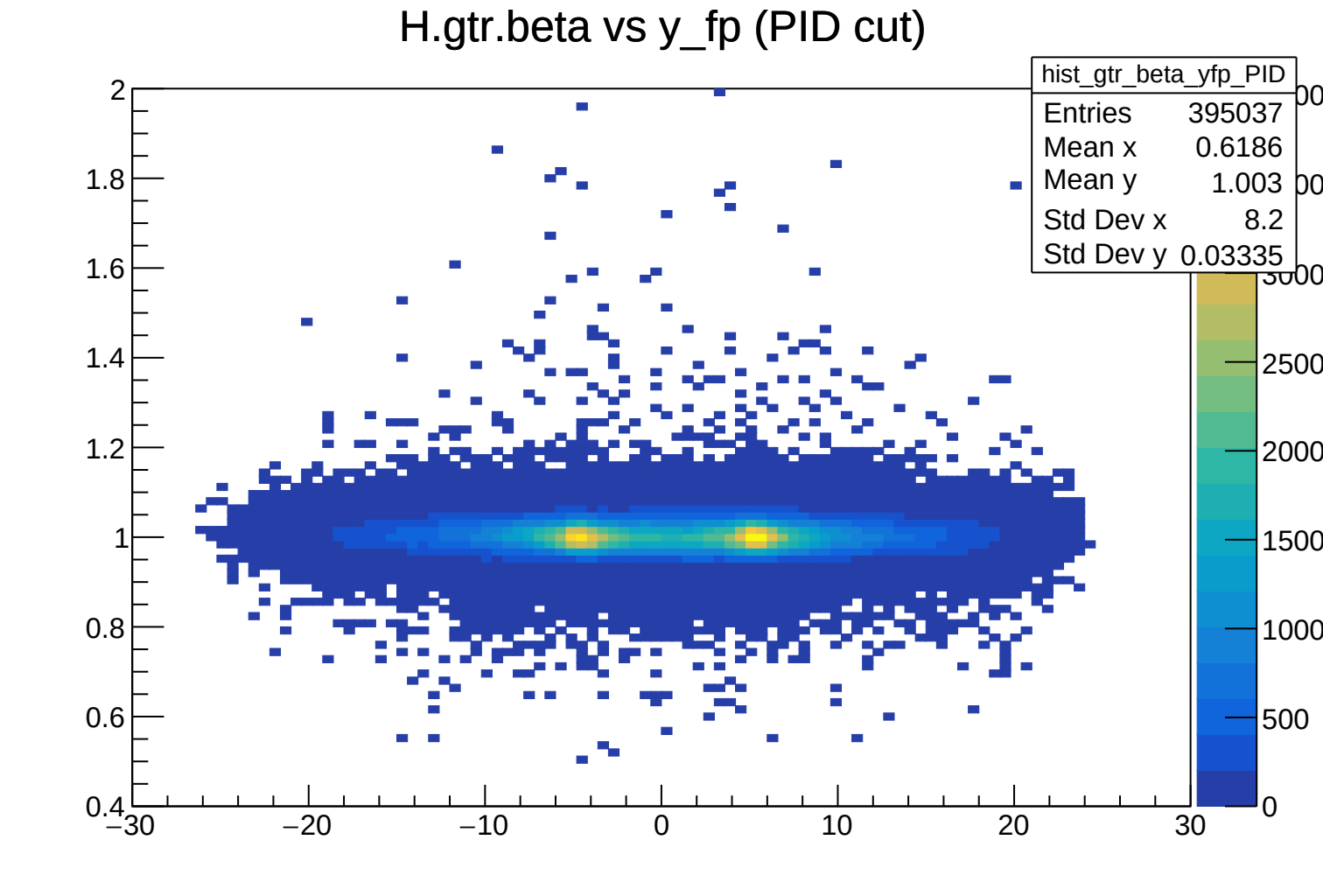

H.gtr.beta vs x_fp
hist_gtr_beta_xfp
Entries 685428
Mean x −7.912
Mean y 1.001
Std Dev x 24.42
Std Dev y 0.04086
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−50
−40
−30
−20
−10
0
10
20
30
40
50
1400
1200
1000
800
600
400
200
0

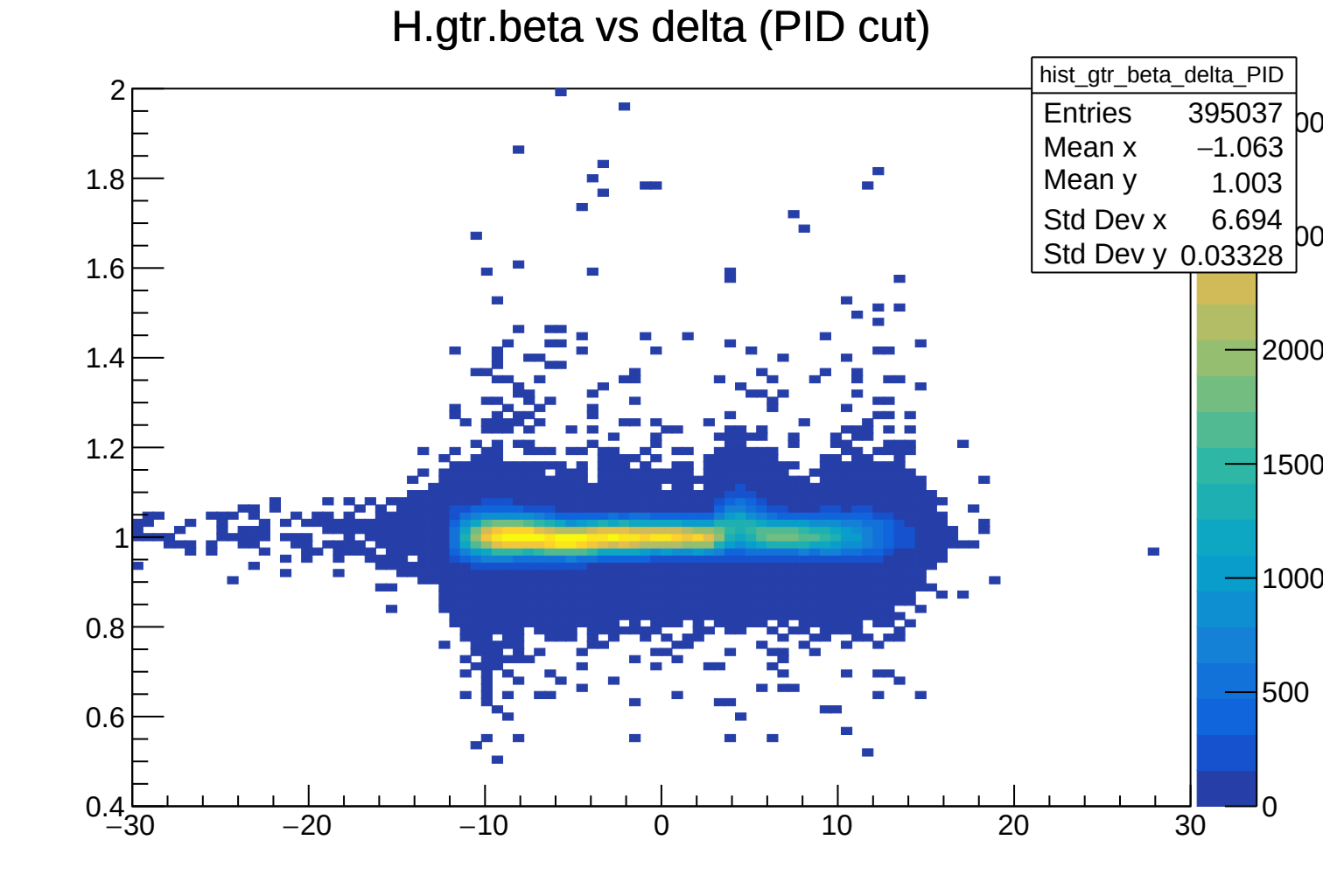

H.gtr.beta vs y_fp
hist_gtr_beta_yfp
Entries 685428
Mean x −0.1433
Mean y 1.001
Std Dev x 8.741
Std Dev y 0.04101
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
3000
2000
1000
0

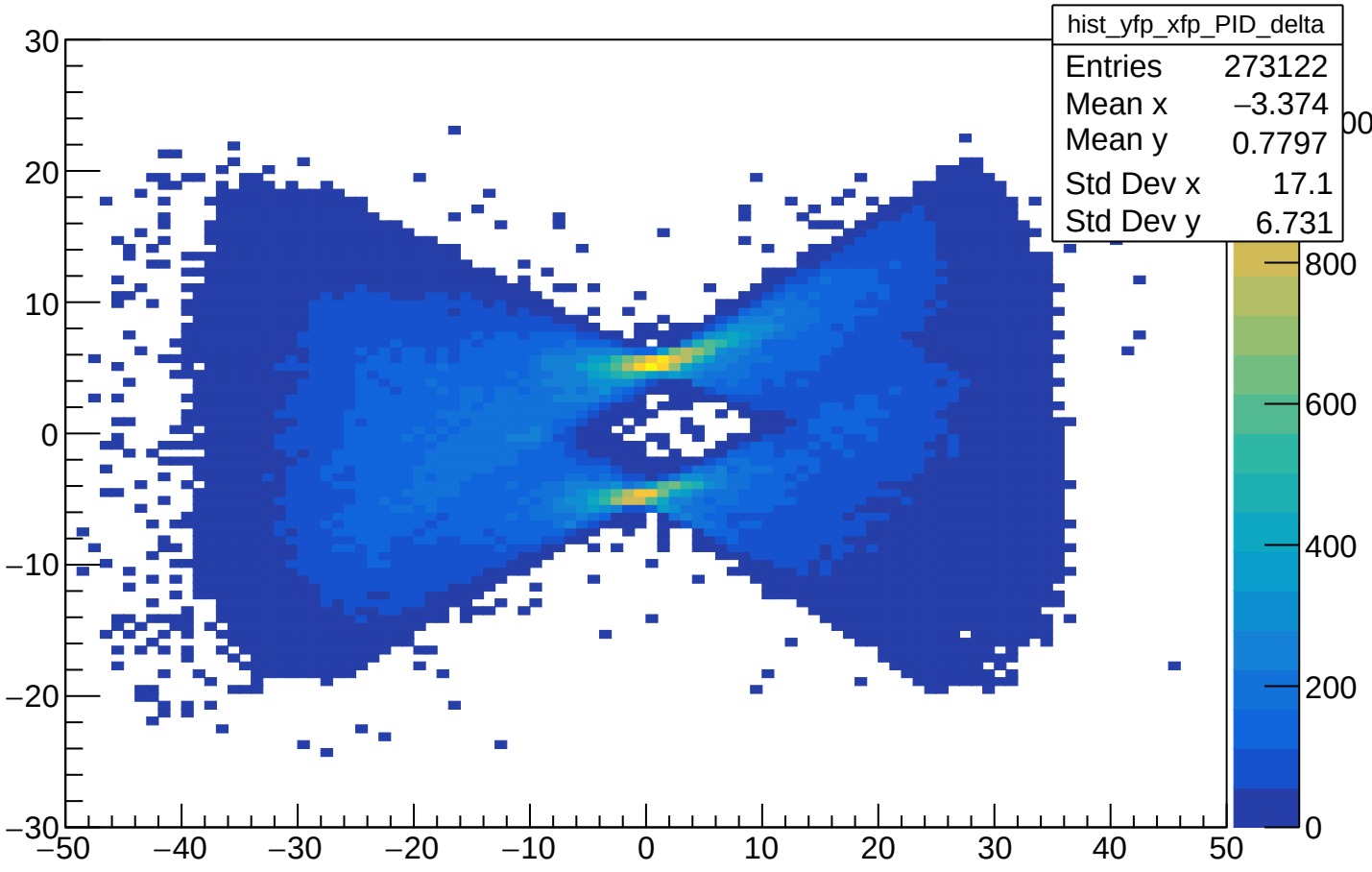

H.gtr.beta vs delta
hist_gtr_beta_delta
Entries 685428
Mean x −1.738
Mean y 1.001
Std Dev x 6.683
Std Dev y 0.03953
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
3500
3000
2500
2000
1500
1000
500
0

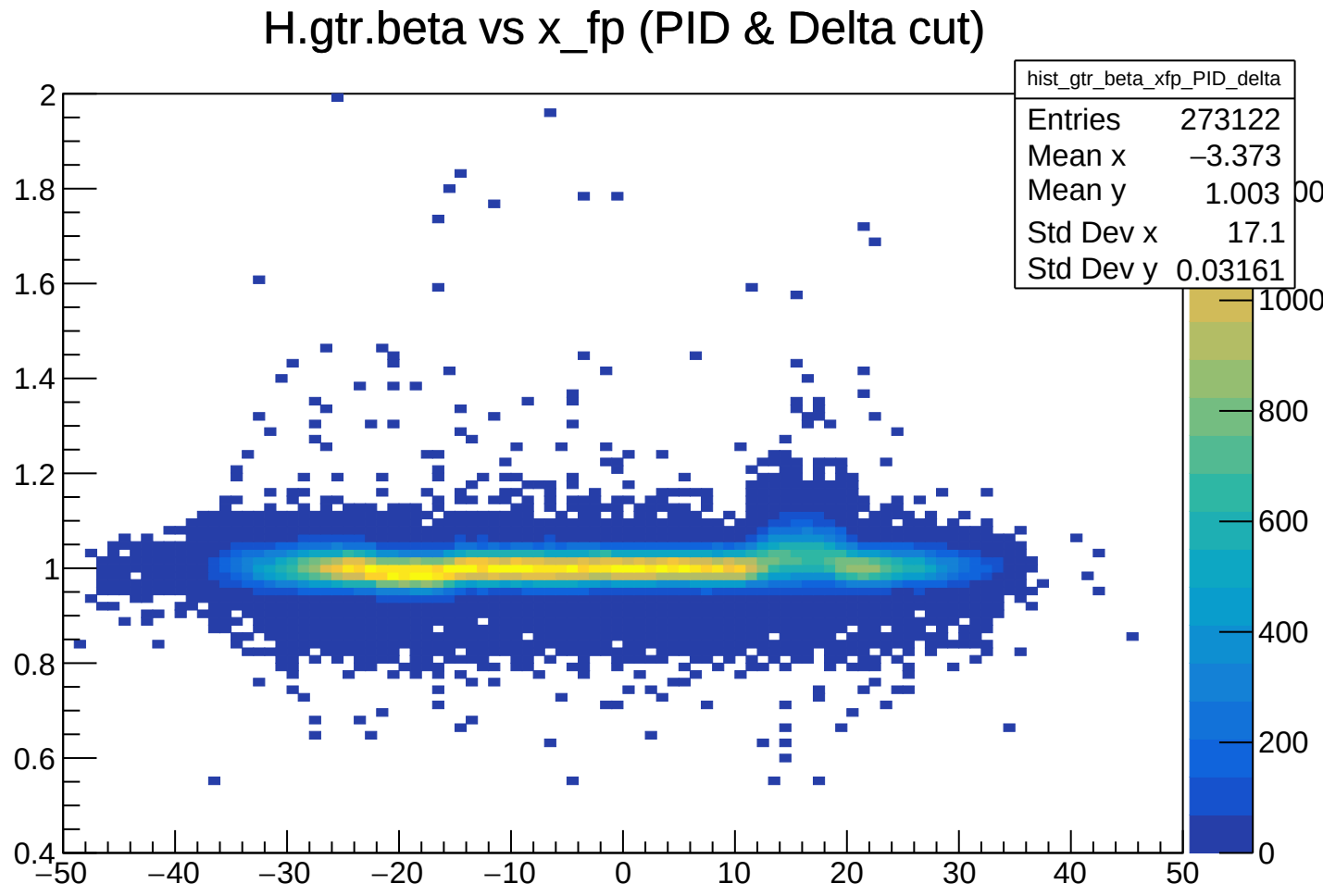

focal plane (PID cut)
hist_yfp_xfp_PID
Entries 395037
Mean x –5.083
Mean y 0.6176
Std Dev x 24.32
Std Dev y 8.201
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
800
600
400
200
0

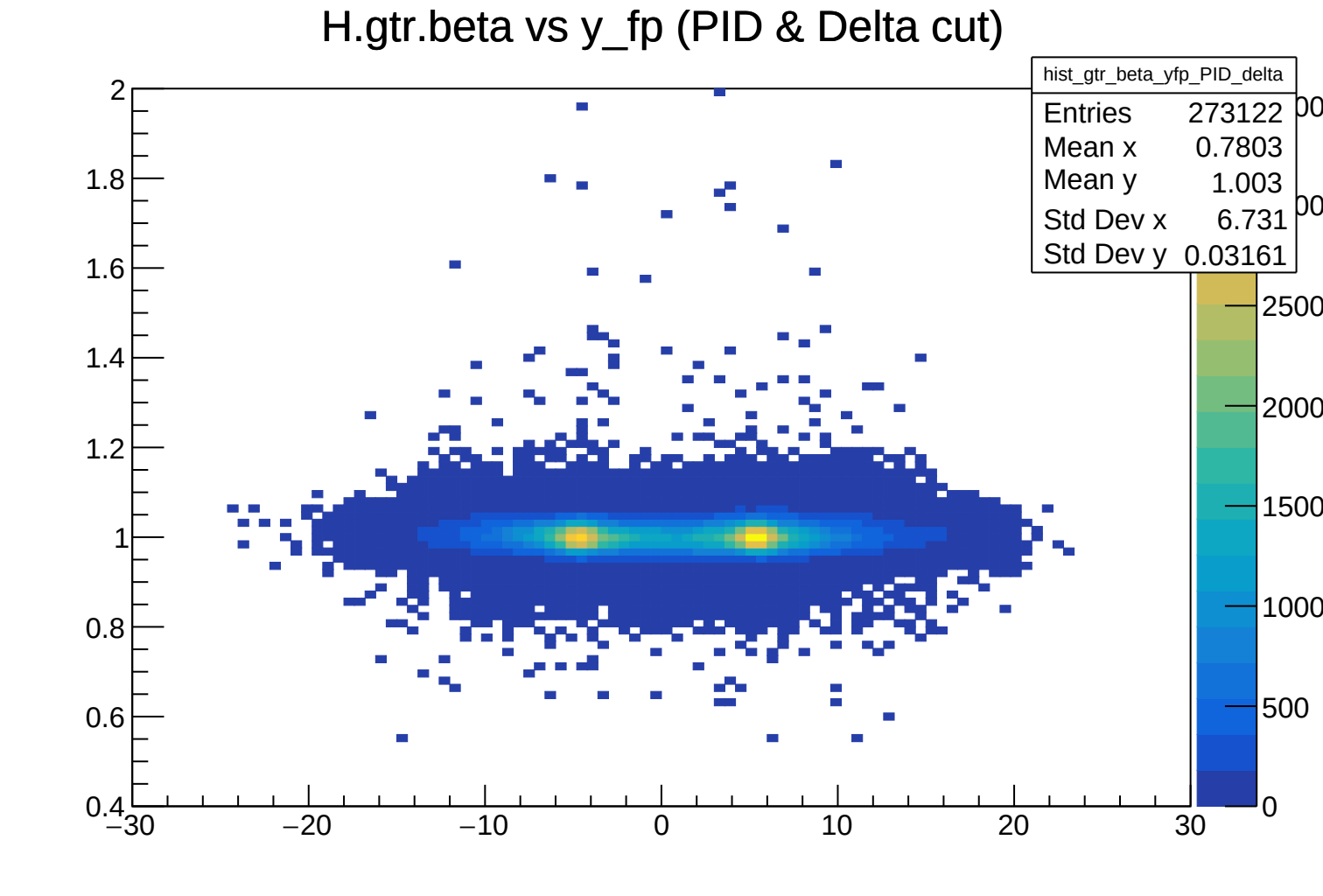

H.gtr.beta vs x_fp (PID cut)
hist_gtr_beta_xfp_PID
Entries 395037
Mean x –5.057
Mean y 1.003
Std Dev x 24.31
Std Dev y 0.03335
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
–50
–40
–30
–20
–10
0
10
20
30
40
50
1000
800
600
400
200
0

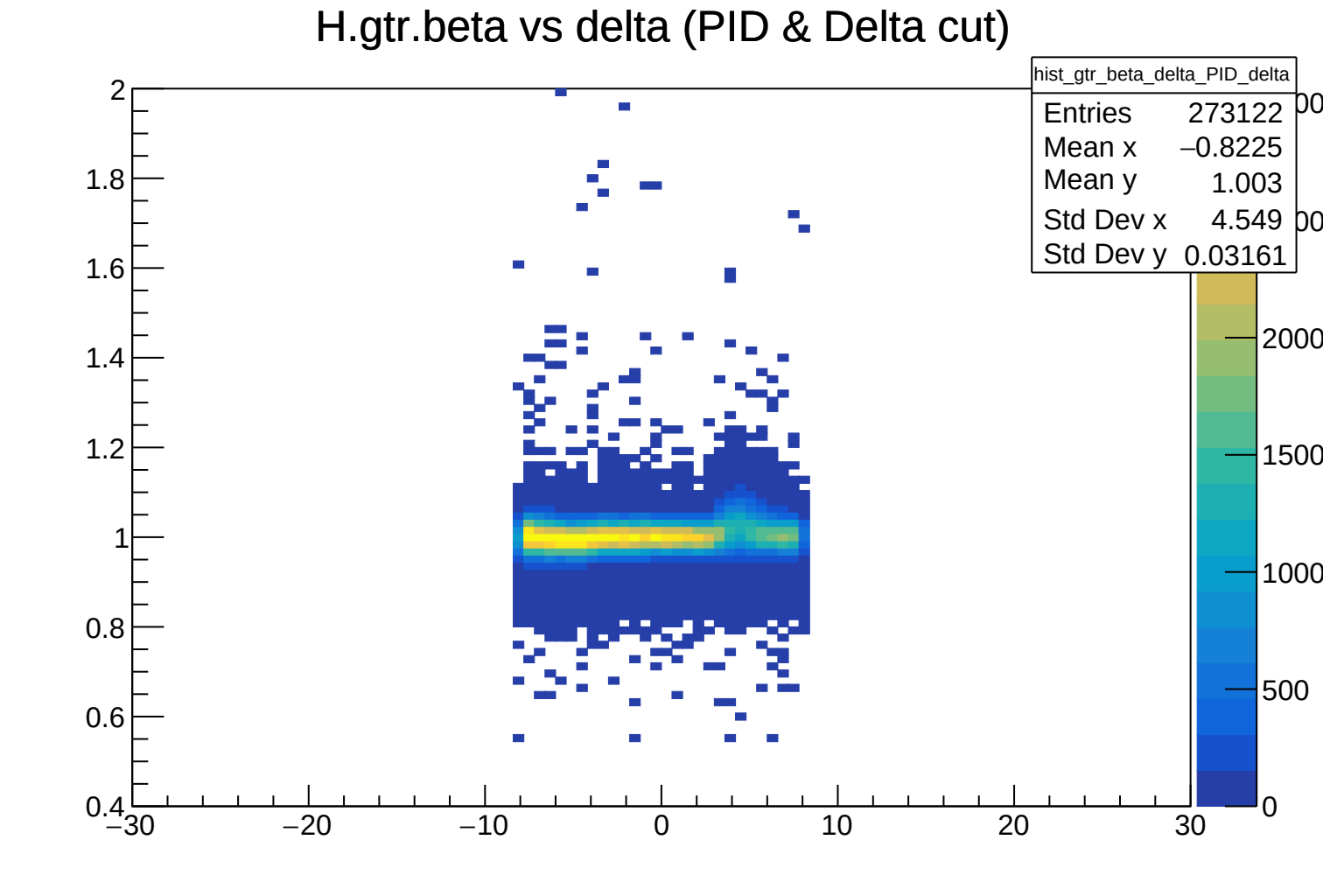

H.gtr.beta vs y_fp (PID cut)
hist_gtr_beta_yfp_PID
Entries 395037
Mean x 0.6186
Mean y 1.003
Std Dev x 8.2
Std Dev y 0.03335
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
3000
2500
2000
1500
1000
500
0


H.gtr.beta vs delta (PID cut)
hist_gtr_beta_delta_PID
Entries 395037
Mean x −1.063
Mean y 1.003
Std Dev x 6.694
Std Dev y 0.03328
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 273122
Mean x −3.374
Mean y 0.7797
Std Dev x 17.1
Std Dev y 6.731
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
800
600
400
200
0


H.gtr.beta vs x_fp (PID & Delta cut)
hist_gtr_beta_xfp_PID_delta
Entries 273122
Mean x −3.373
Mean y 1.003
Std Dev x 17.1
Std Dev y 0.03161
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
1000
800
600
400
200
0


H.gtr.beta vs y_fp (PID & Delta cut)
hist_gtr_beta_yfp_PID_delta
Entries 273122
Mean x 0.7803
Mean y 1.003
Std Dev x 6.731
Std Dev y 0.03161
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 (PID & Delta cut)
hist_gtr_beta_delta_PID_delta
Entries 273122
Mean x −0.8225
Mean y 1.003
Std Dev x 4.549
Std Dev y 0.03161
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