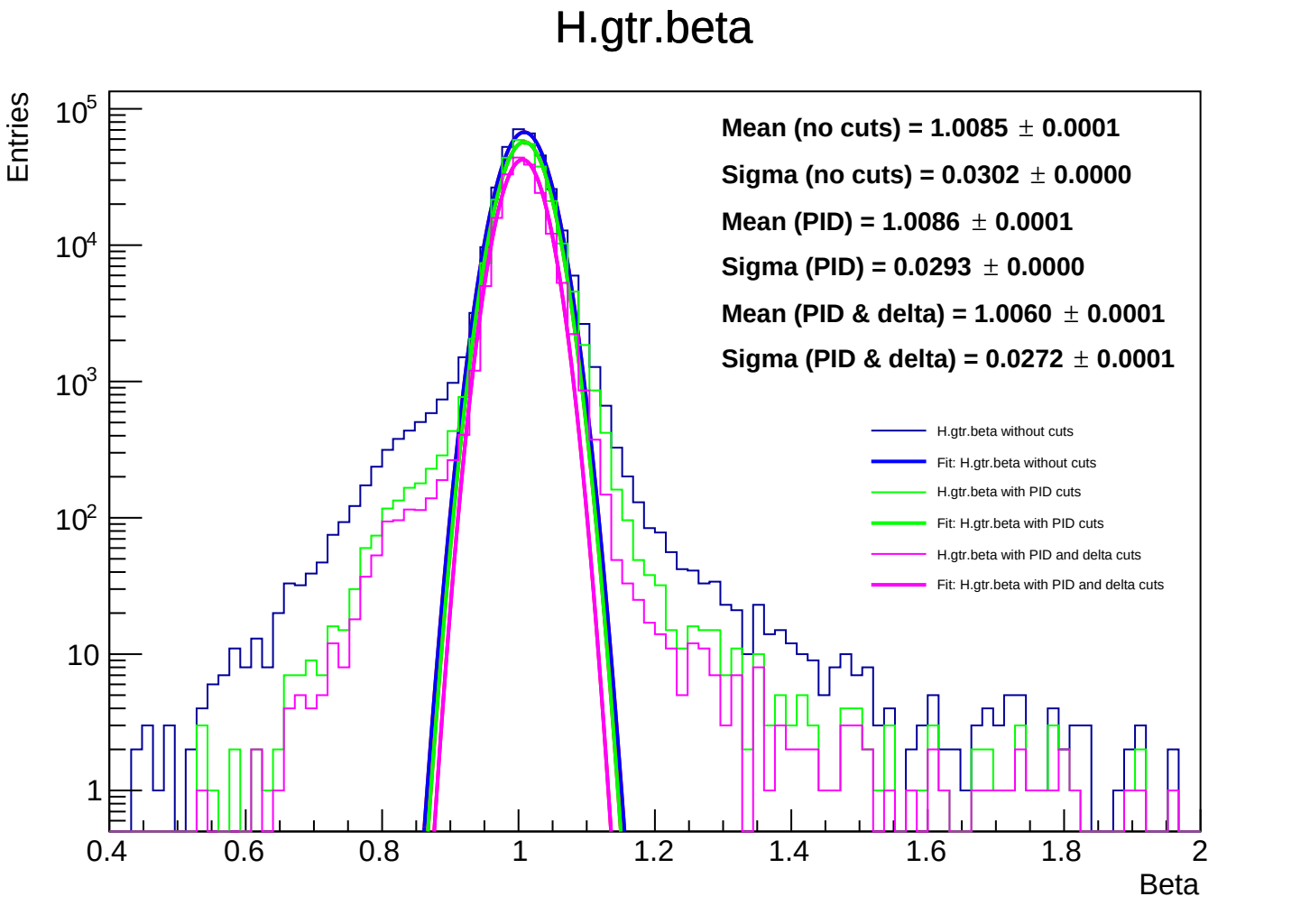
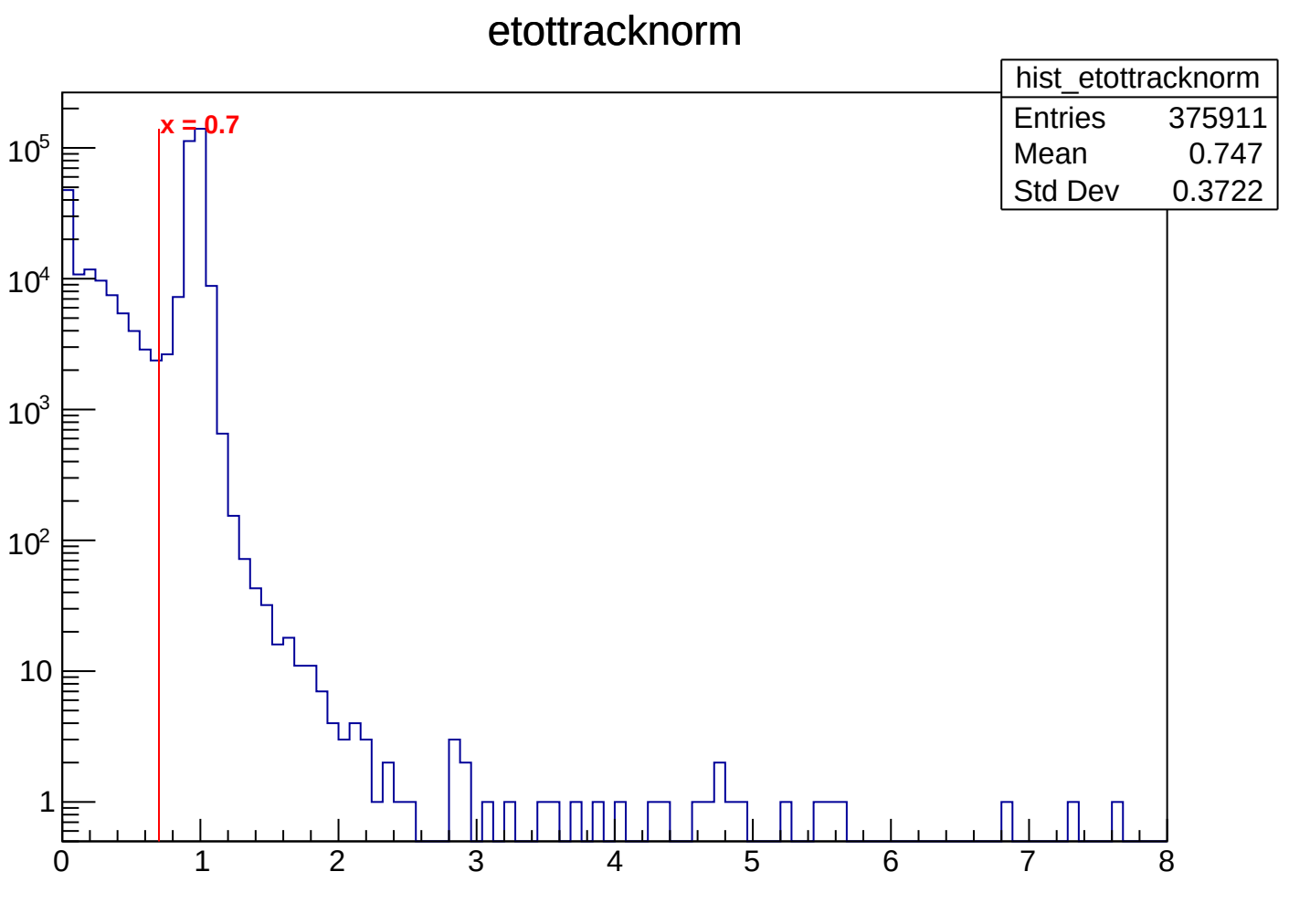
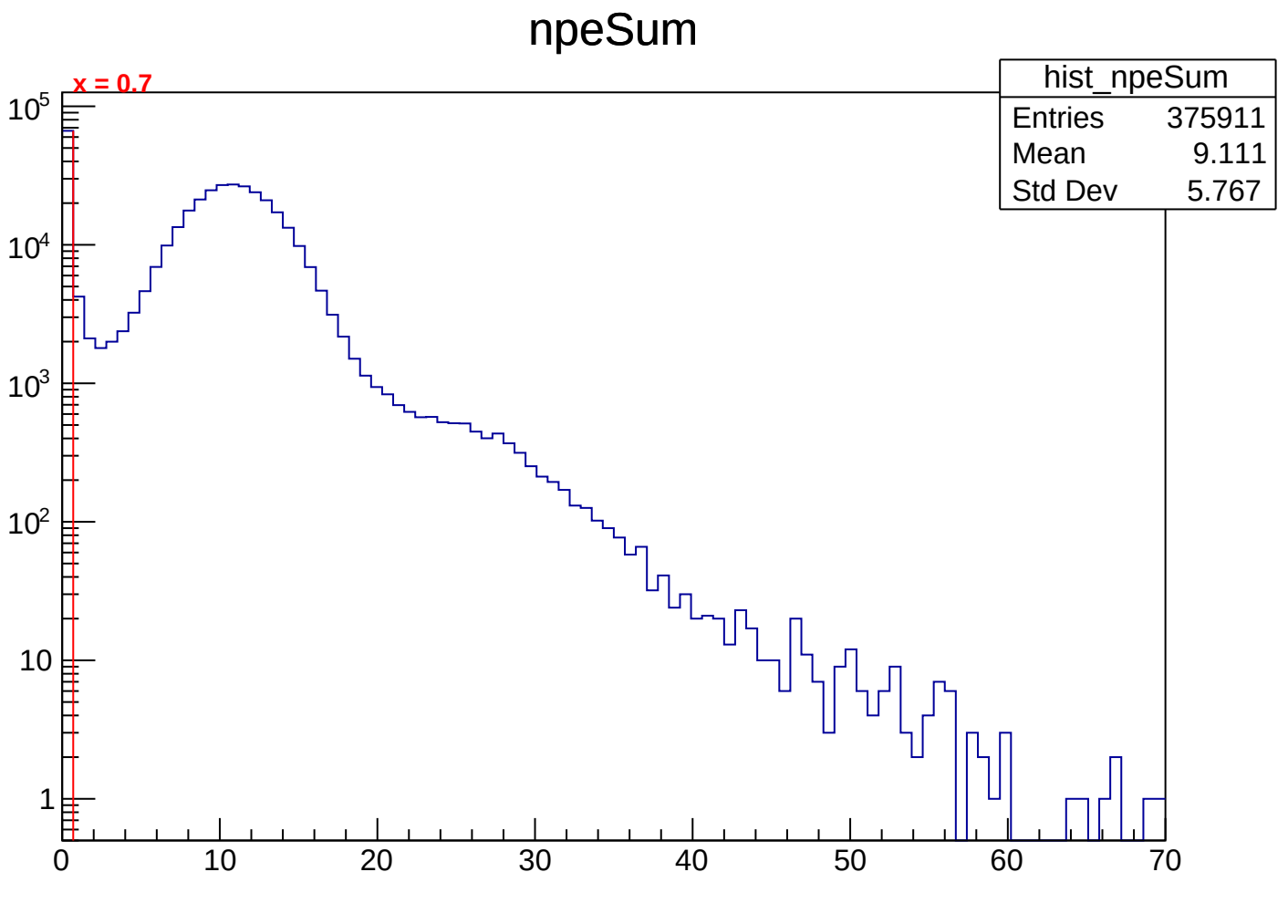
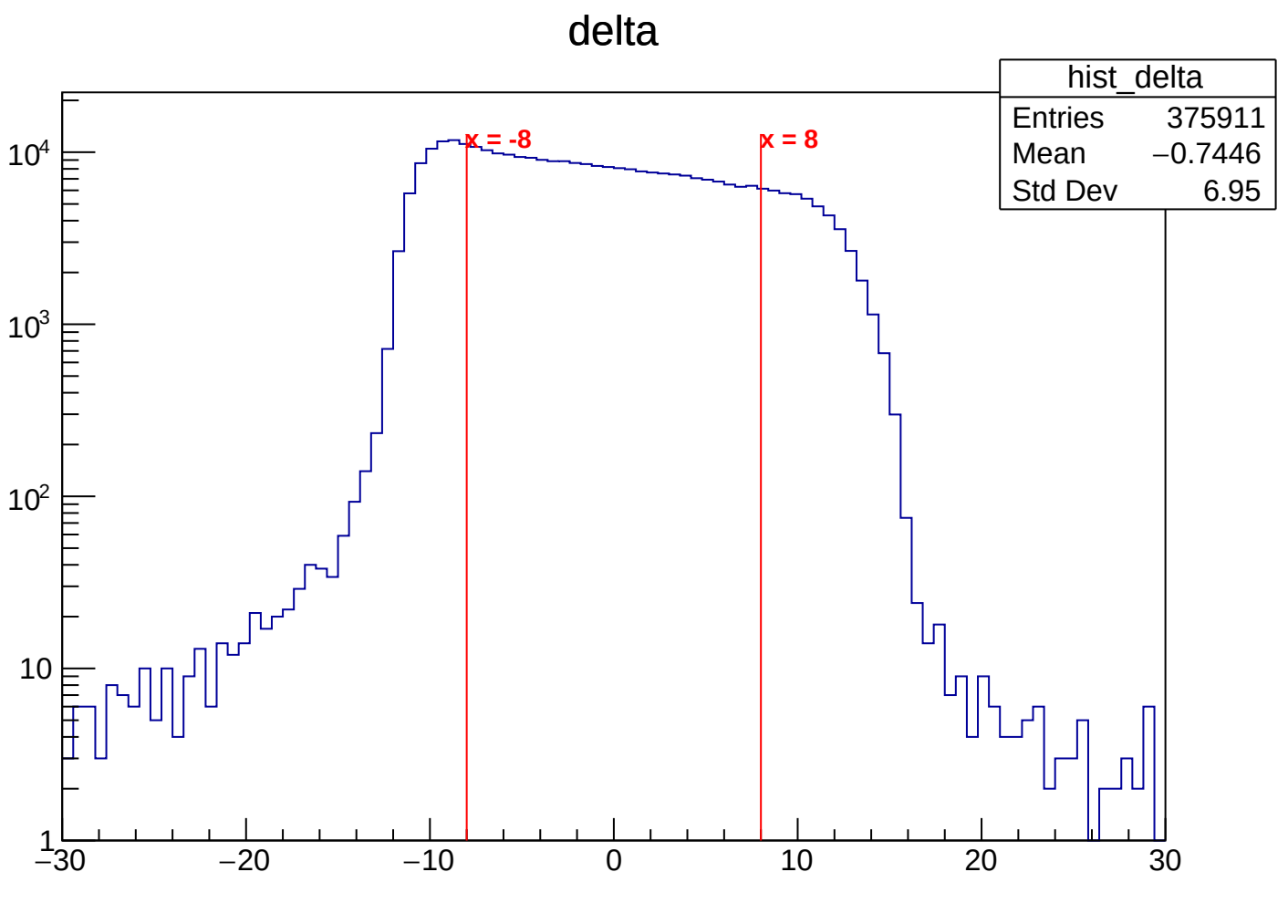
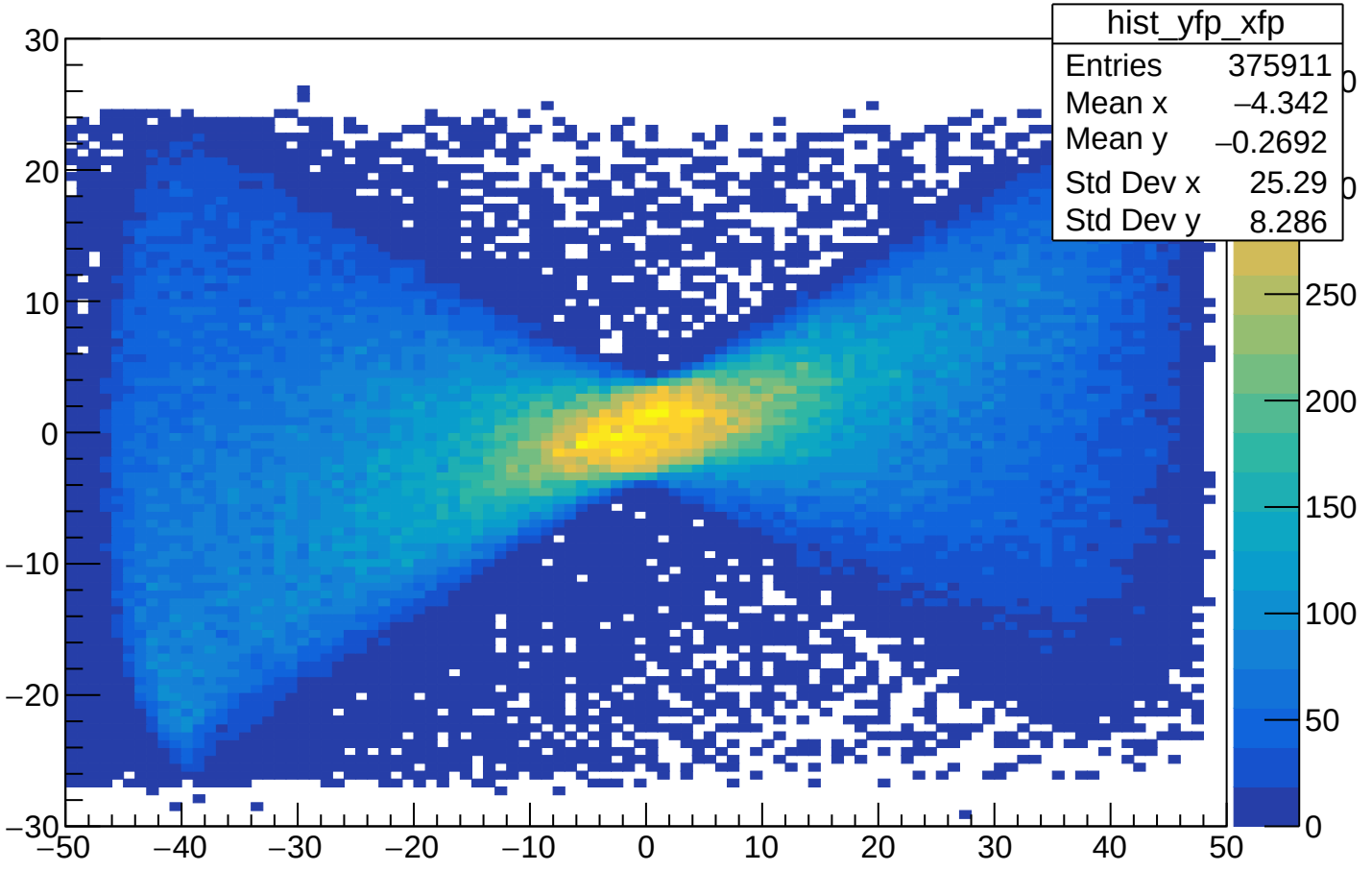
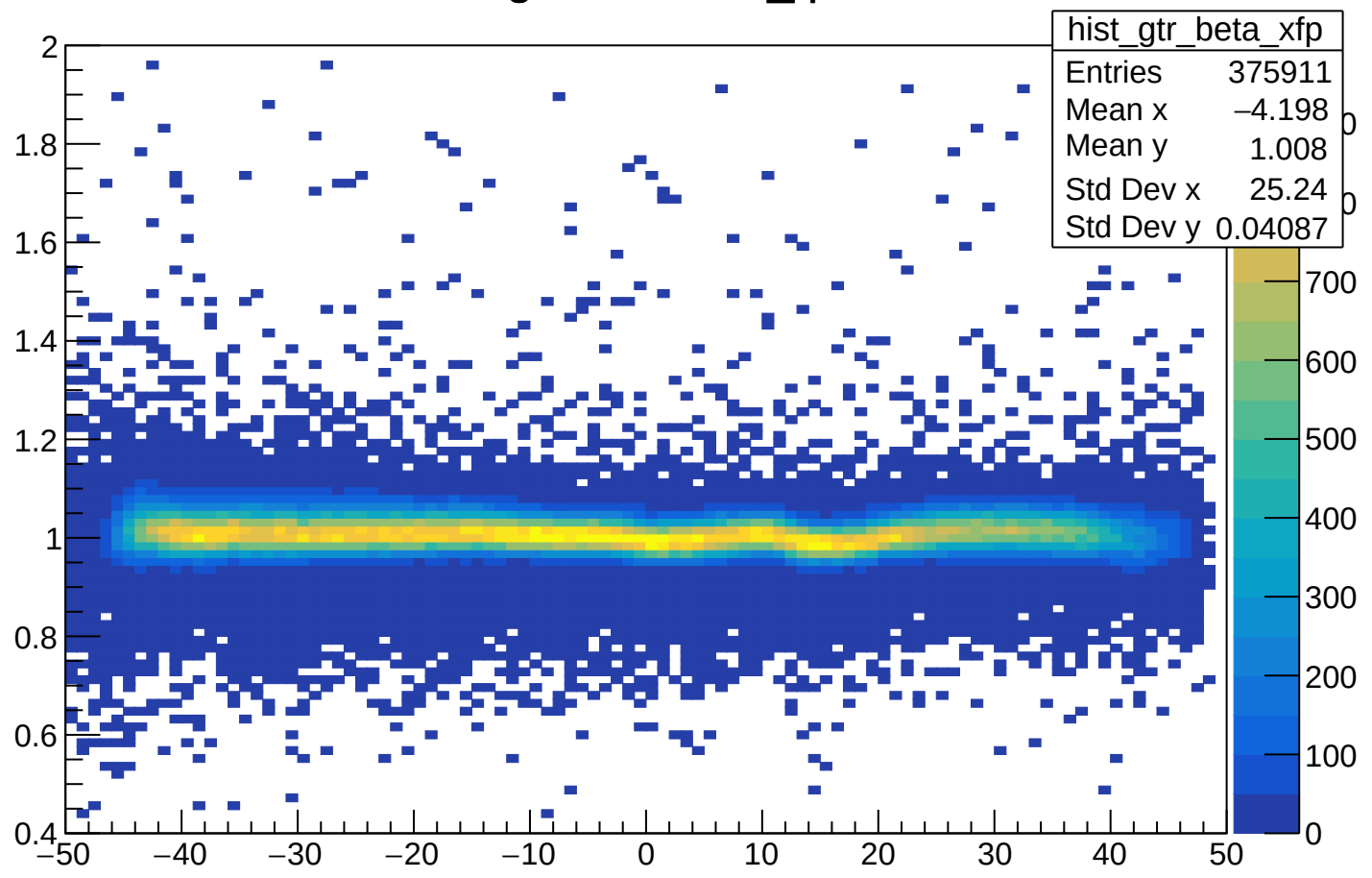

H.gtr.beta
Entries
Beta
Mean (no cuts) = 1.0085 ± 0.0001
Sigma (no cuts) = 0.0302 ± 0.0000
Mean (PID) = 1.0086 ± 0.0001
Sigma (PID) = 0.0293 ± 0.0000
Mean (PID & delta) = 1.0060 ± 0.0001
Sigma (PID & delta) = 0.0272 ± 0.0001
H.gtr.beta without cuts
Fit: H.gtr.beta without cuts
H.gtr.beta with PID cuts
Fit: H.gtr.beta with PID cuts
H.gtr.beta with PID and delta cuts
Fit: H.gtr.beta with PID and delta cuts

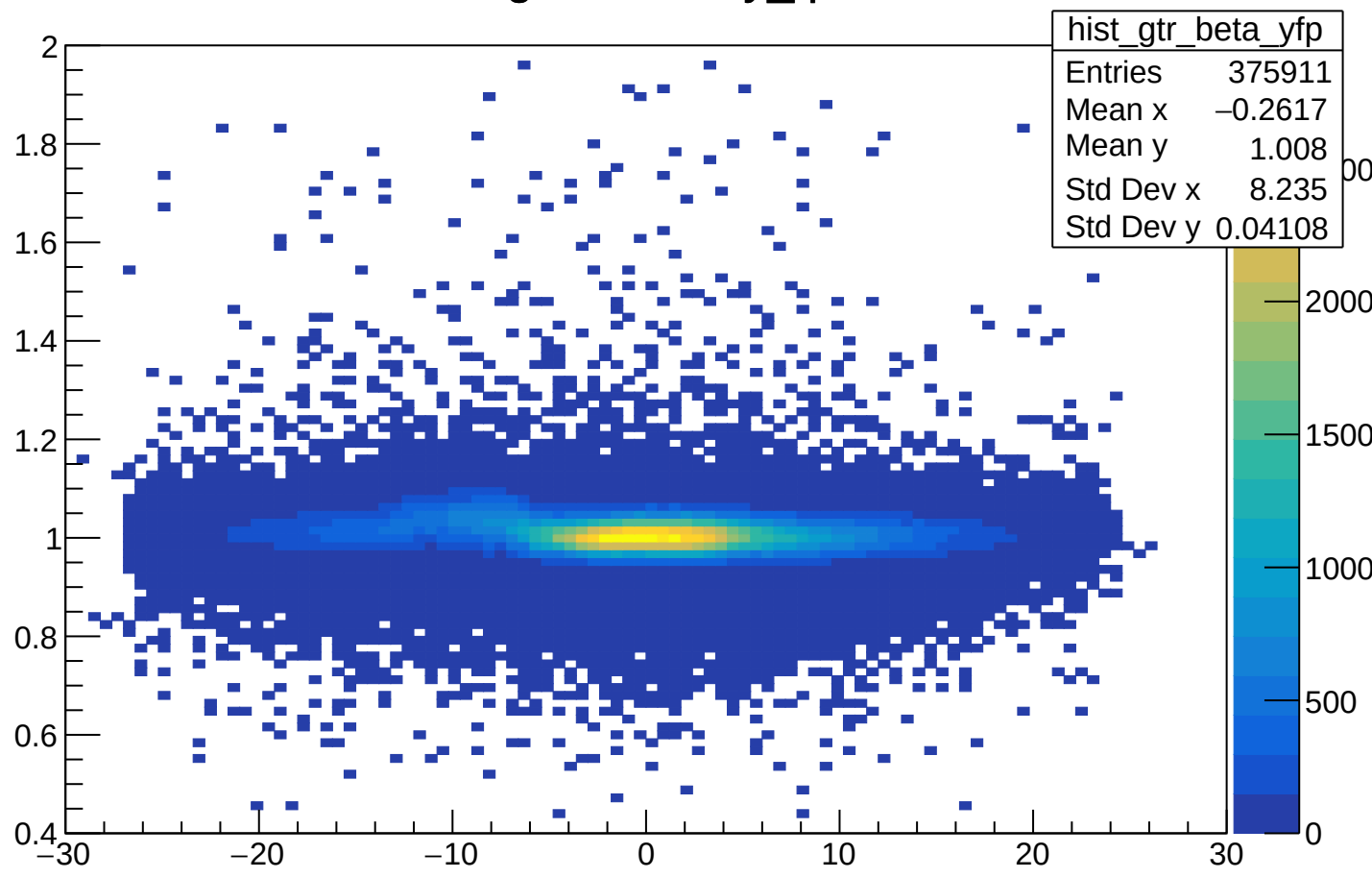

etottracknorm
hist_etottracknorm
Entries 375911
Mean 0.747
Std Dev 0.3722
x = 0.7
$10^5$
$10^4$
$10^3$
$10^2$
10
1
0
1
2
3
4
5
6
7
8

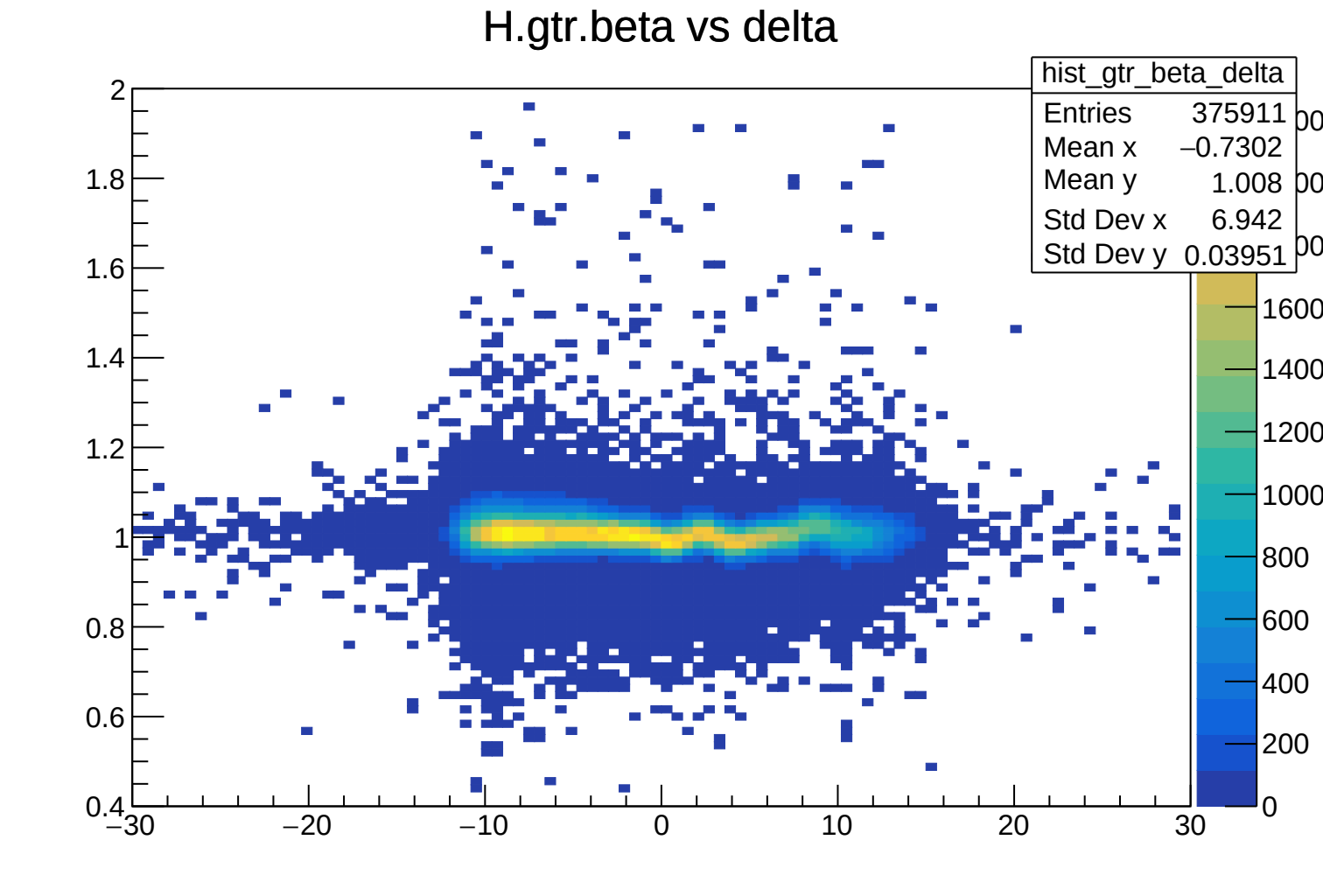

npeSum
x = 0.7
hist_npeSum
Entries 375911
Mean 9.111
Std Dev 5.767
$10^5$
$10^4$
$10^3$
$10^2$
10
1
0
10
20
30
40
50
60
70

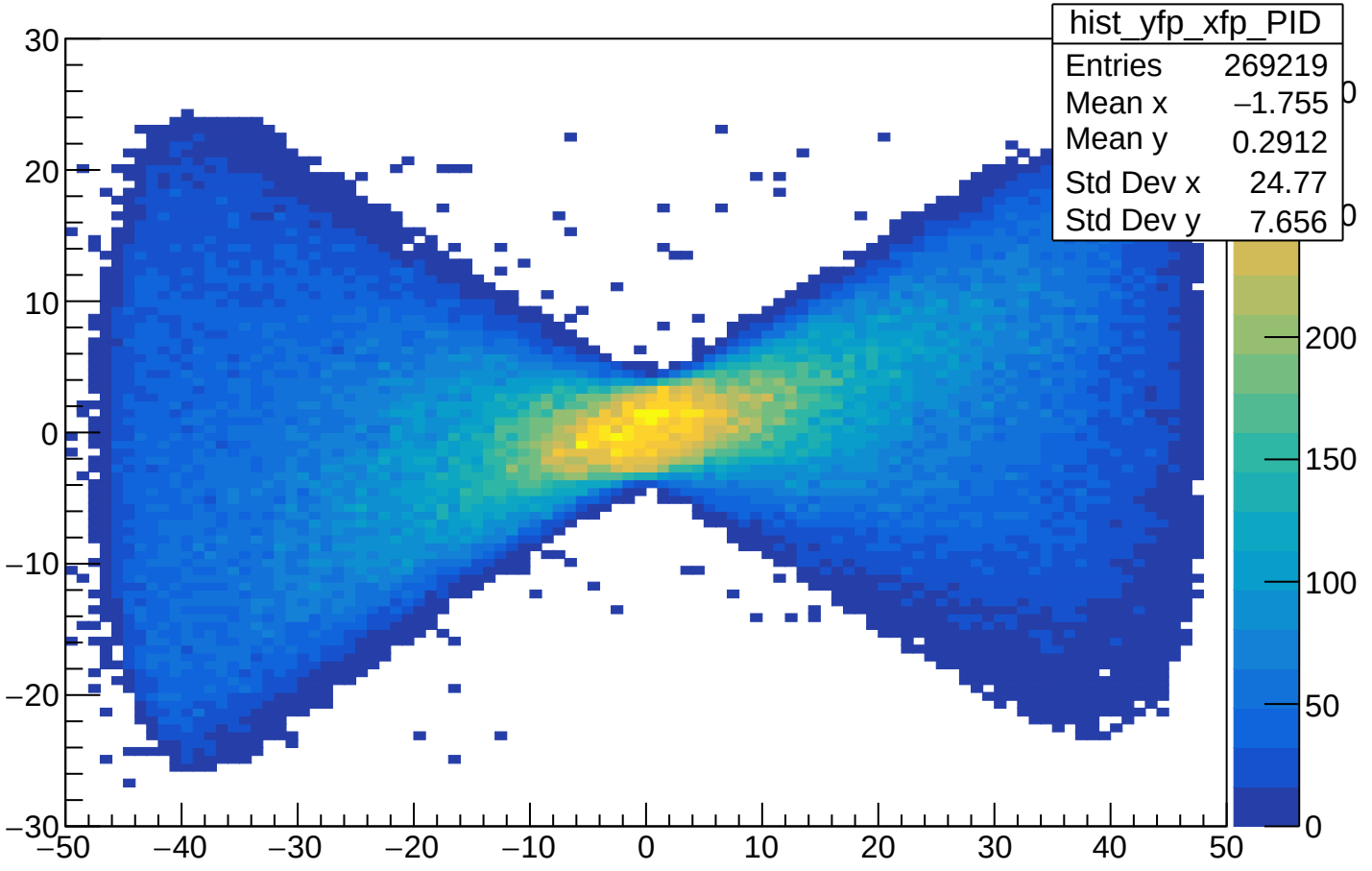

delta
hist_delta
Entries 375911
Mean −0.7446
Std Dev 6.95
x = -8
x = 8
10^4
10^3
10^2
10
1
−30
−20
−10
0
10
20
30

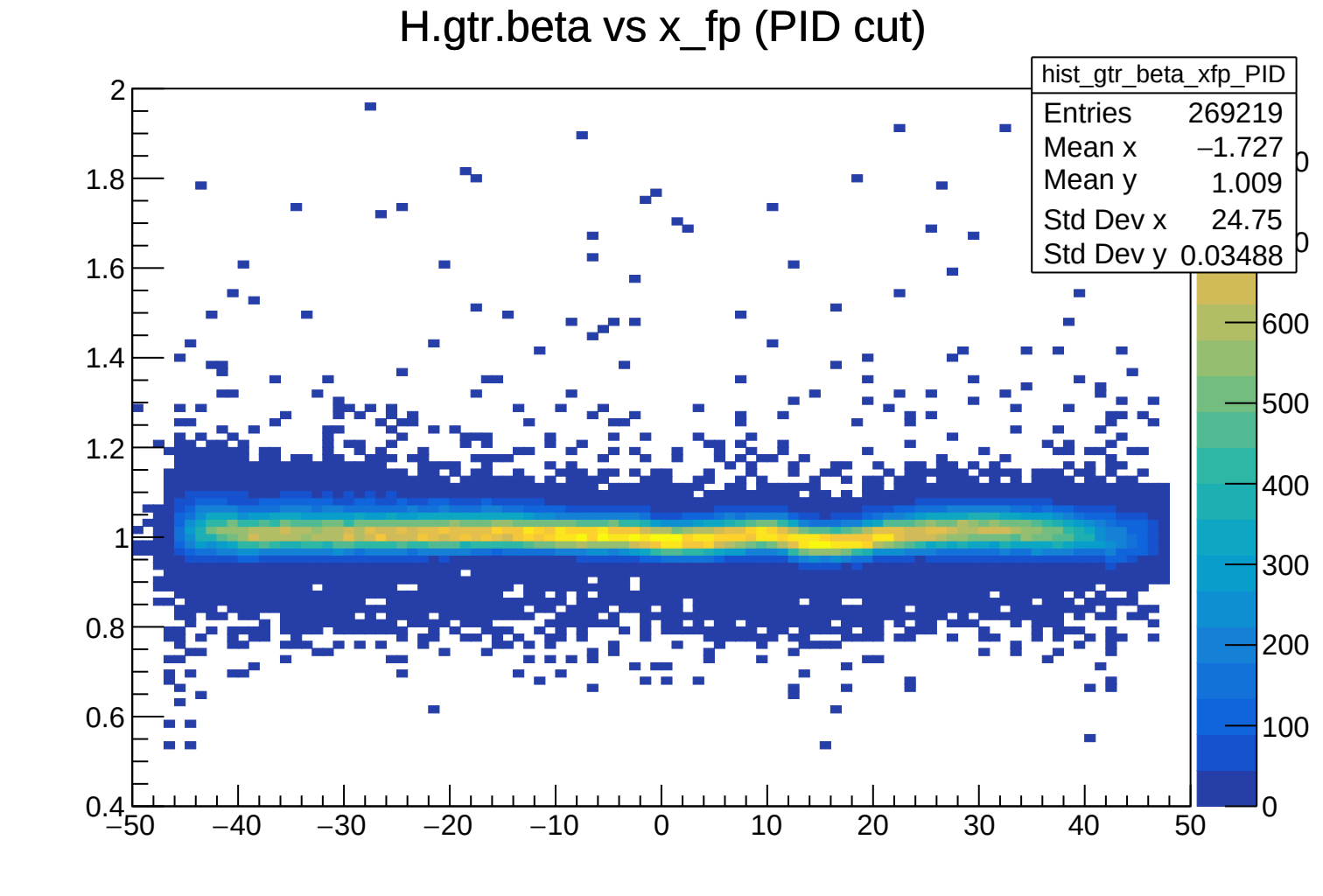

focal plane
hist_yfp_xfp
Entries 375911
Mean x –4.342
Mean y –0.2692
Std Dev x 25.29
Std Dev y 8.286
30
20
10
0
–10
–20
–30
–50
–40
–30
–20
–10
0
10
20
30
40
50
250
200
150
100
50
0

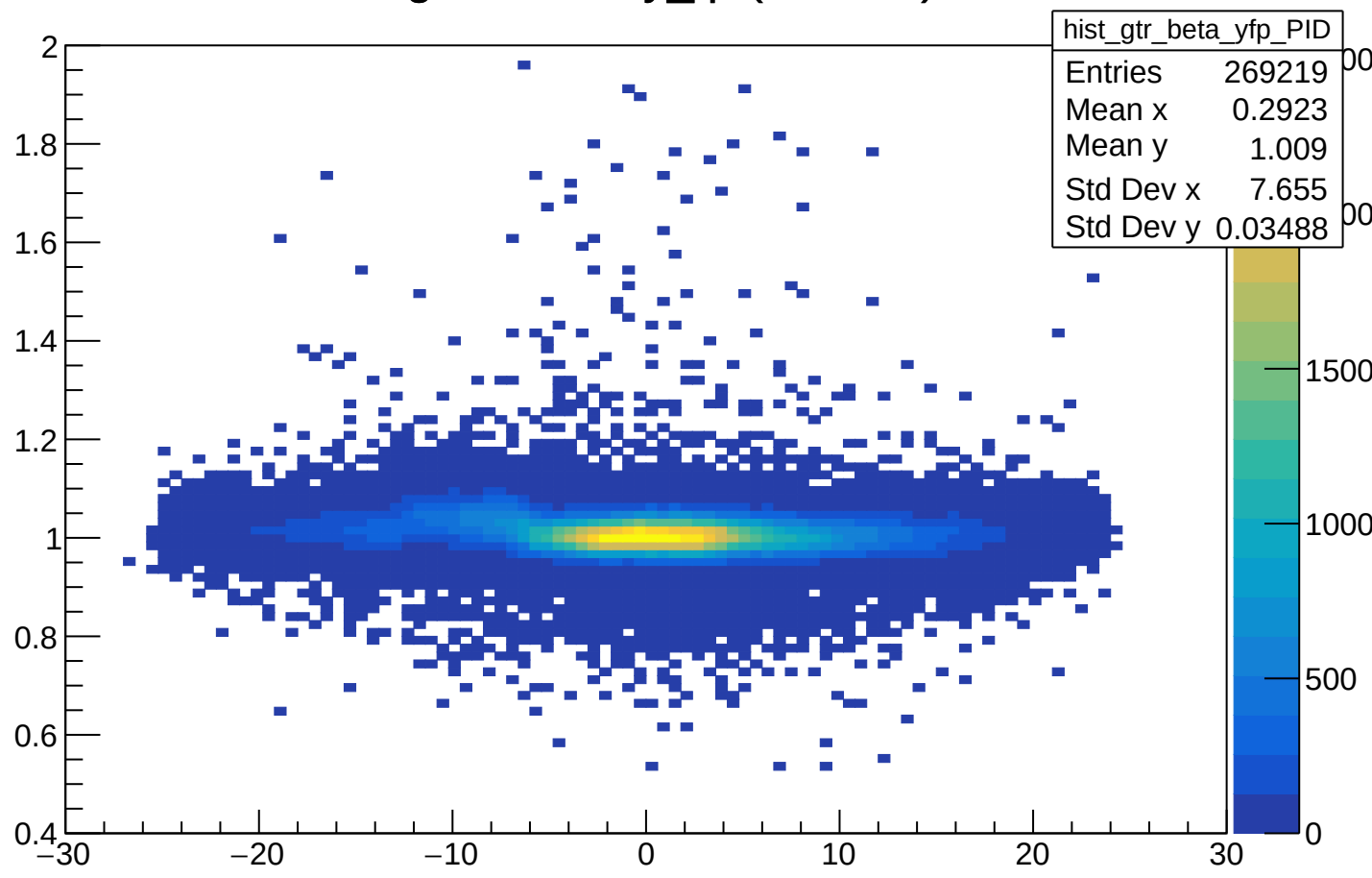

H.gtr.beta vs x_fp
hist_gtr_beta_xfp
Entries 375911
Mean x –4.198
Mean y 1.008
Std Dev x 25.24
Std Dev y 0.04087
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
–50
–40
–30
–20
–10
0
10
20
30
40
50
700
600
500
400
300
200
100
0

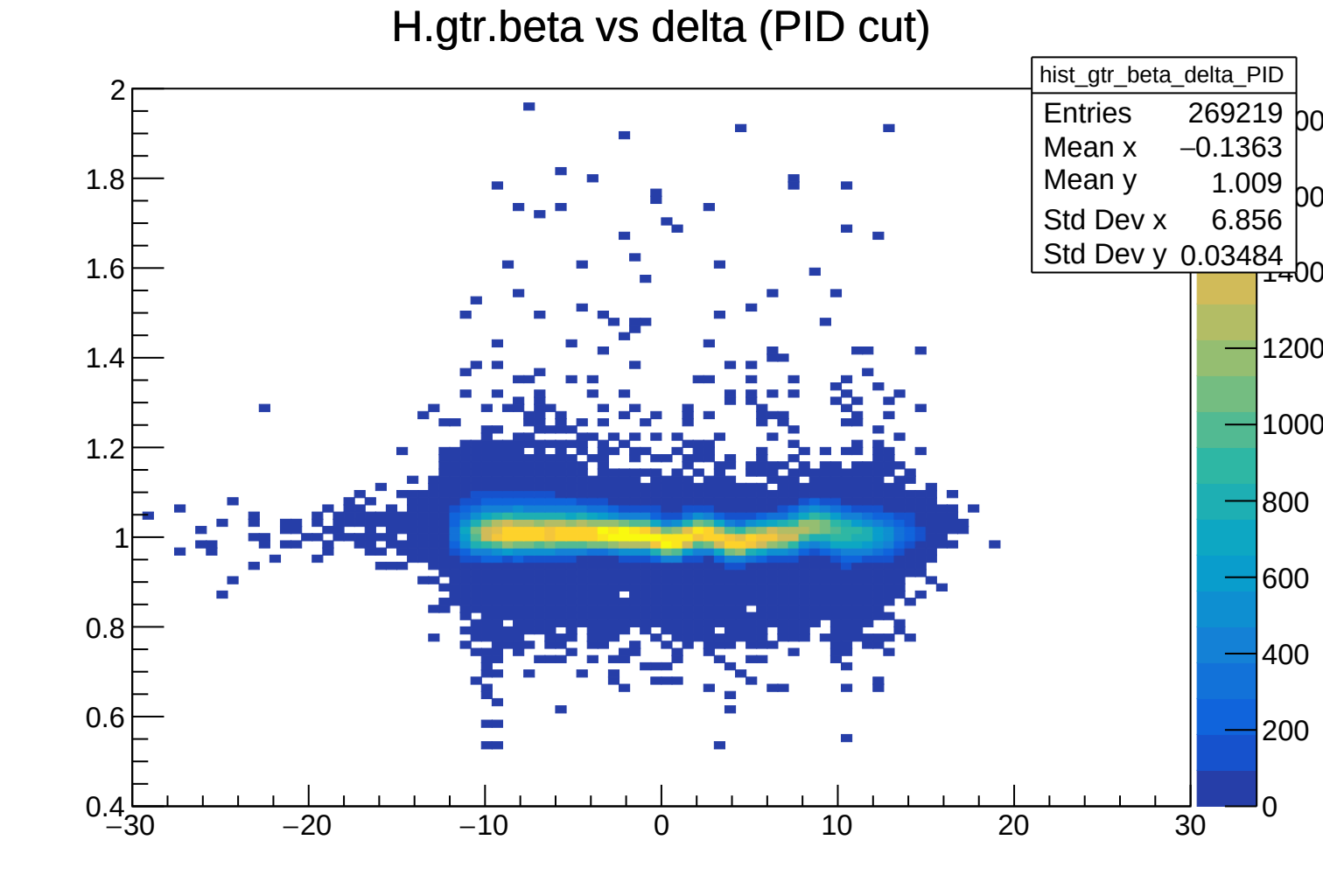

H.gtr.beta vs y_fp
hist_gtr_beta_yfp
Entries 375911
Mean x −0.2617
Mean y 1.008
Std Dev x 8.235
Std Dev y 0.04108
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
2000
1500
1000
500
0

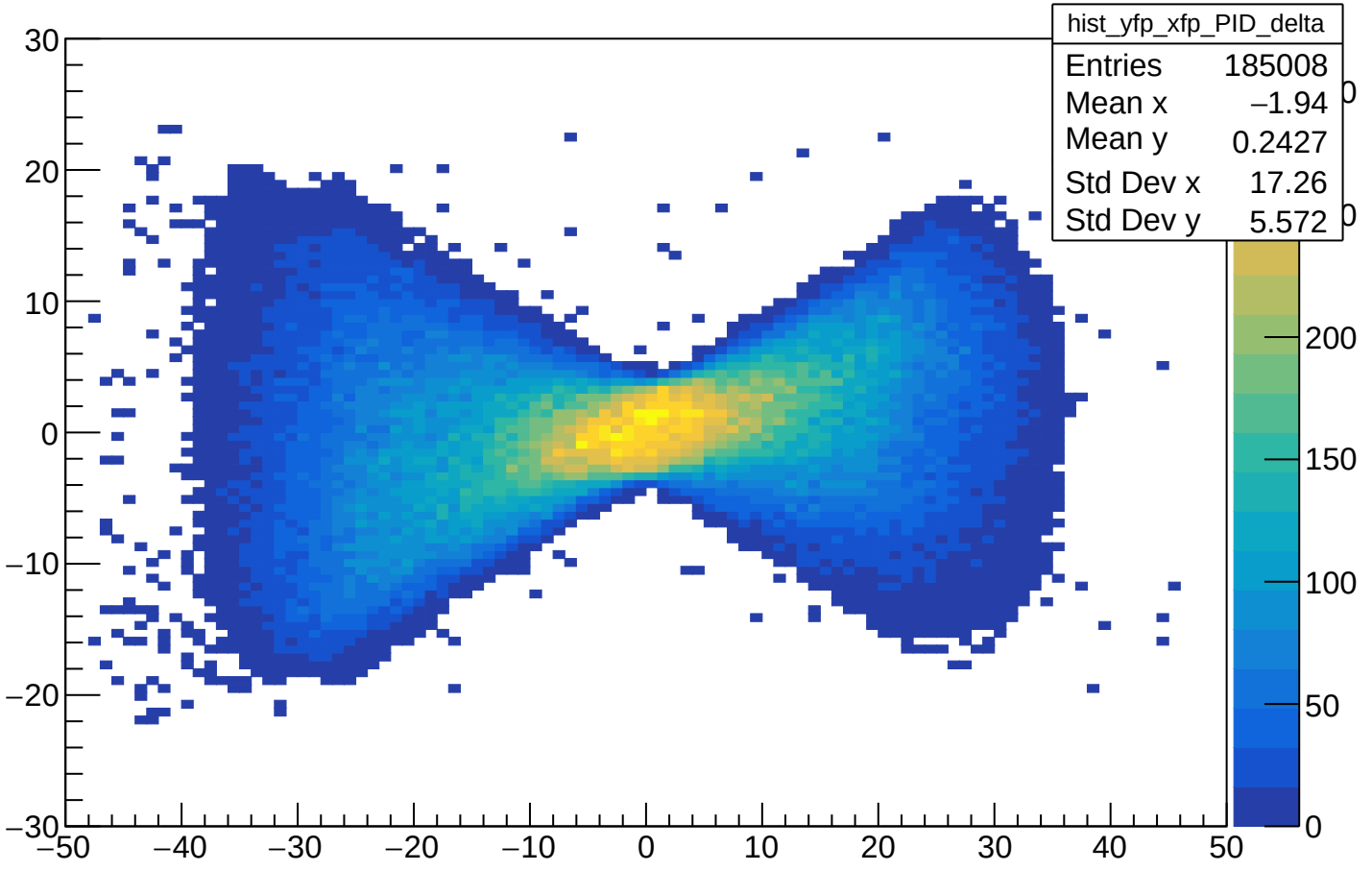

H.gtr.beta vs delta
hist_gtr_beta_delta
Entries 375911
Mean x −0.7302
Mean y 1.008
Std Dev x 6.942
Std Dev y 0.03951
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
1600
1400
1200
1000
800
600
400
200
0

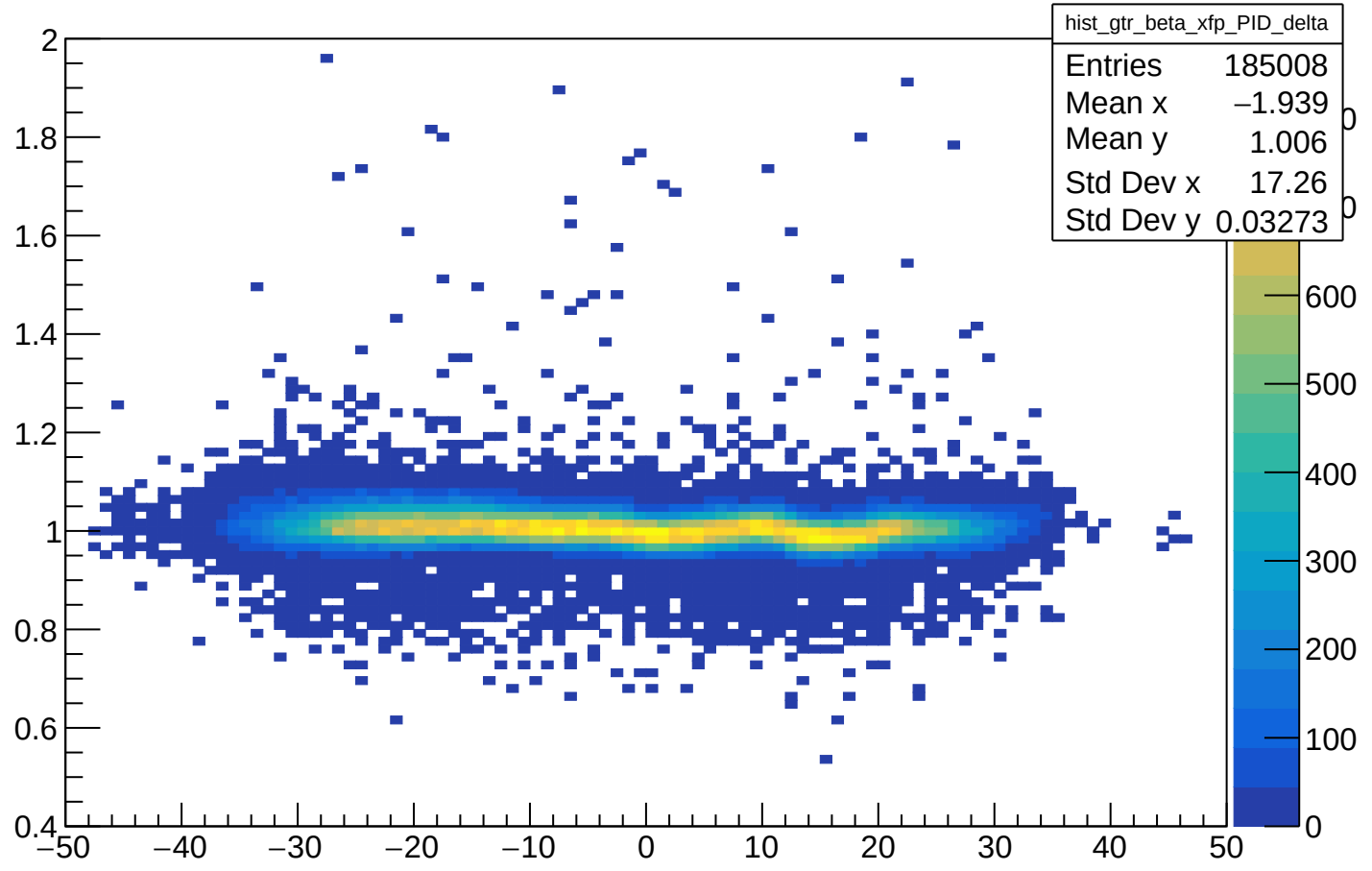

focal plane (PID cut)
hist_yfp_xfp_PID
Entries 269219
Mean x −1.755
Mean y 0.2912
Std Dev x 24.77
Std Dev y 7.656
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
200
150
100
50
0

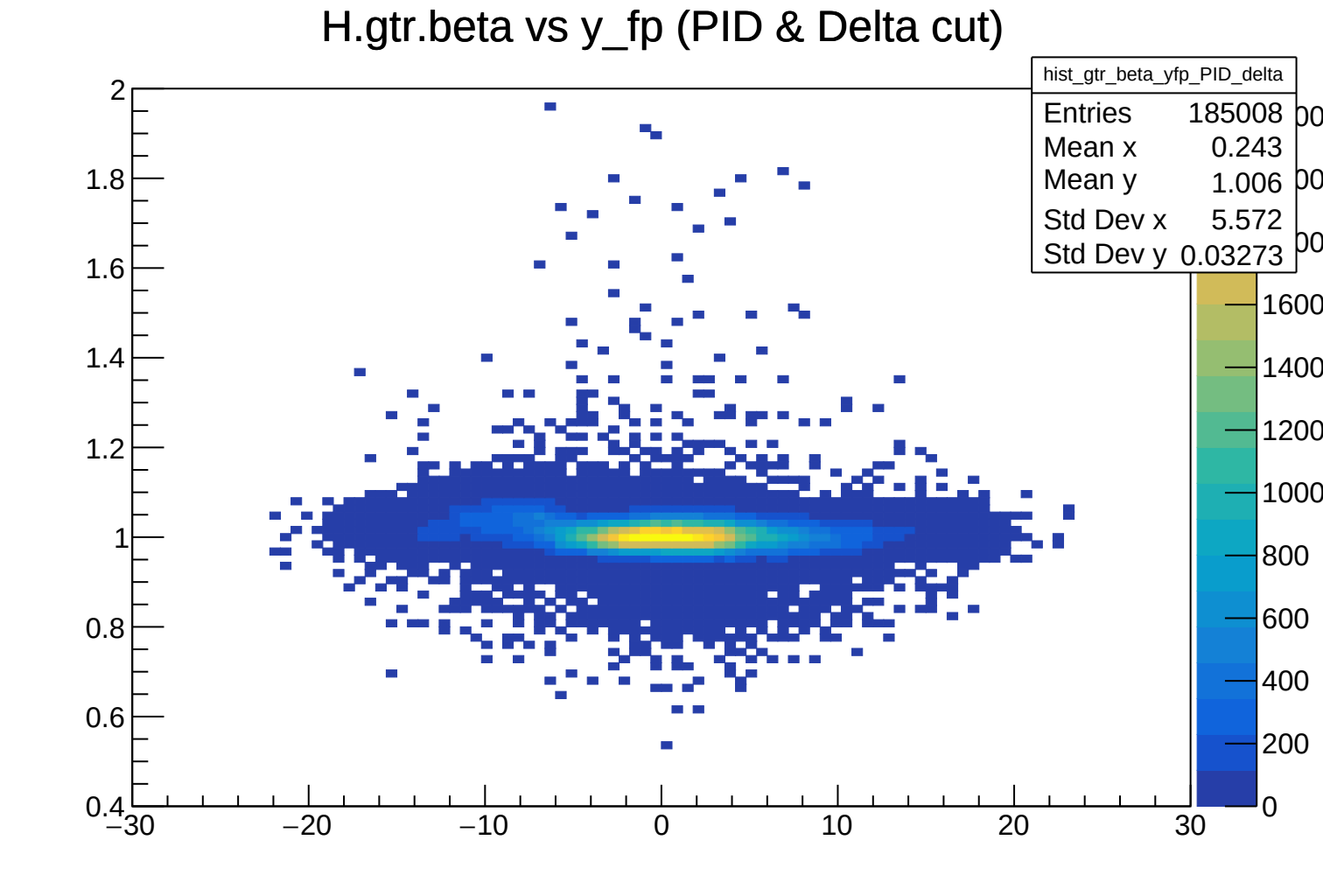

H.gtr.beta vs x_fp (PID cut)
hist_gtr_beta_xfp_PID
Entries 269219
Mean x −1.727
Mean y 1.009
Std Dev x 24.75
Std Dev y 0.03488
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−50
−40
−30
−20
−10
0
10
20
30
40
50
600
500
400
300
200
100
0

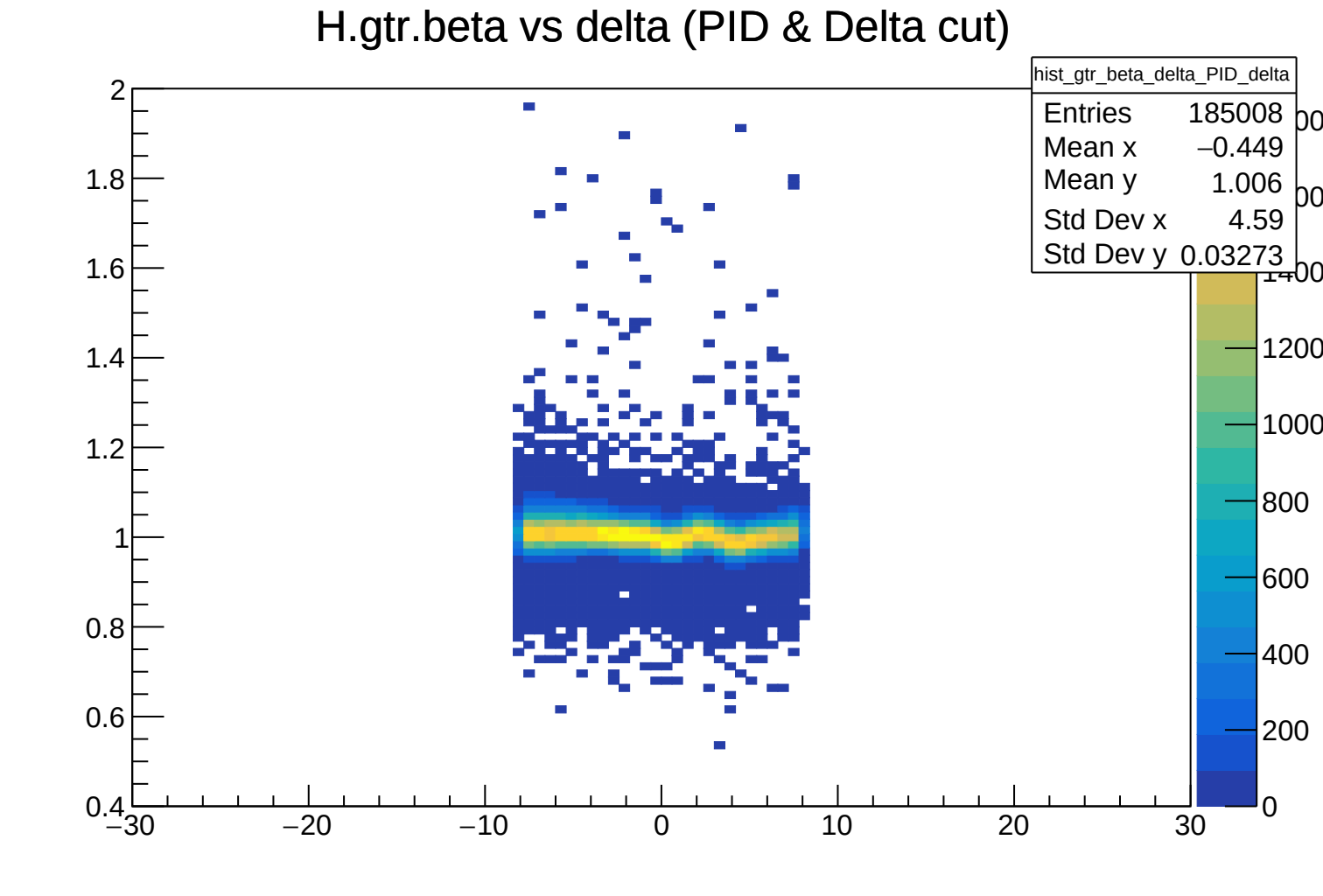

H.gtr.beta vs y_fp (PID cut)
hist_gtr_beta_yfp_PID
Entries 269219
Mean x 0.2923
Mean y 1.009
Std Dev x 7.655
Std Dev y 0.03488
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
1500
1000
500
0


H.gtr.beta vs delta (PID cut)
hist_gtr_beta_delta_PID
Entries 269219
Mean x −0.1363
Mean y 1.009
Std Dev x 6.856
Std Dev y 0.03484
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
1200
1000
800
600
400
200
0


focal plane (PID & Delta cut)
hist_yfp_xfp_PID_delta
Entries 185008
Mean x −1.94
Mean y 0.2427
Std Dev x 17.26
Std Dev y 5.572
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 (PID & Delta cut)
hist_gtr_beta_xfp_PID_delta
Entries 185008
Mean x −1.939
Mean y 1.006
Std Dev x 17.26
Std Dev y 0.03273
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
600
500
400
300
200
100
0


H.gtr.beta vs y_fp (PID & Delta cut)
hist_gtr_beta_yfp_PID_delta
Entries 185008
Mean x 0.243
Mean y 1.006
Std Dev x 5.572
Std Dev y 0.03273
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 185008
Mean x –0.449
Mean y 1.006
Std Dev x 4.59
Std Dev y 0.03273
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
–30
–20
–10
0
10
20
30
1200
1000
800
600
400
200
0