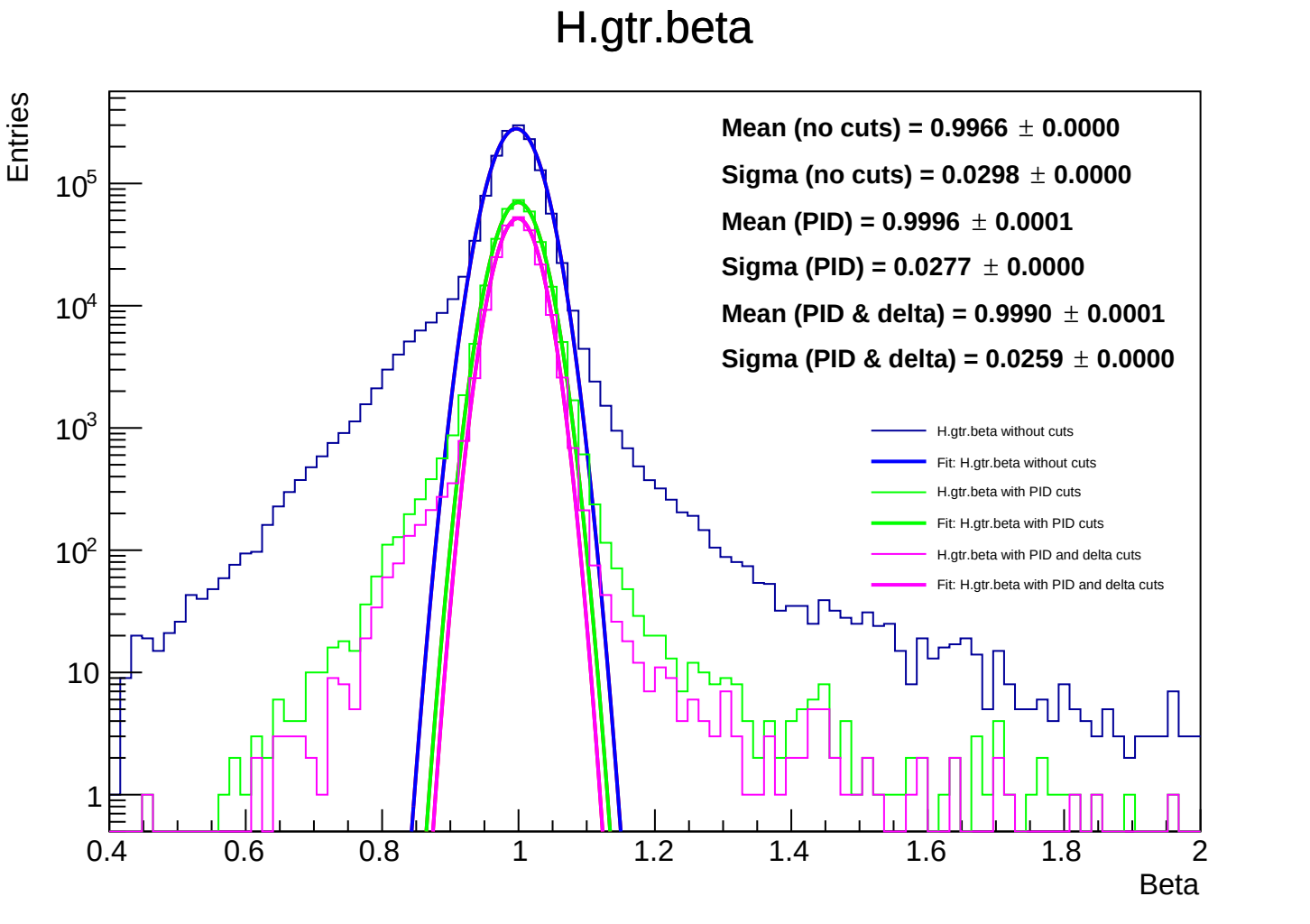
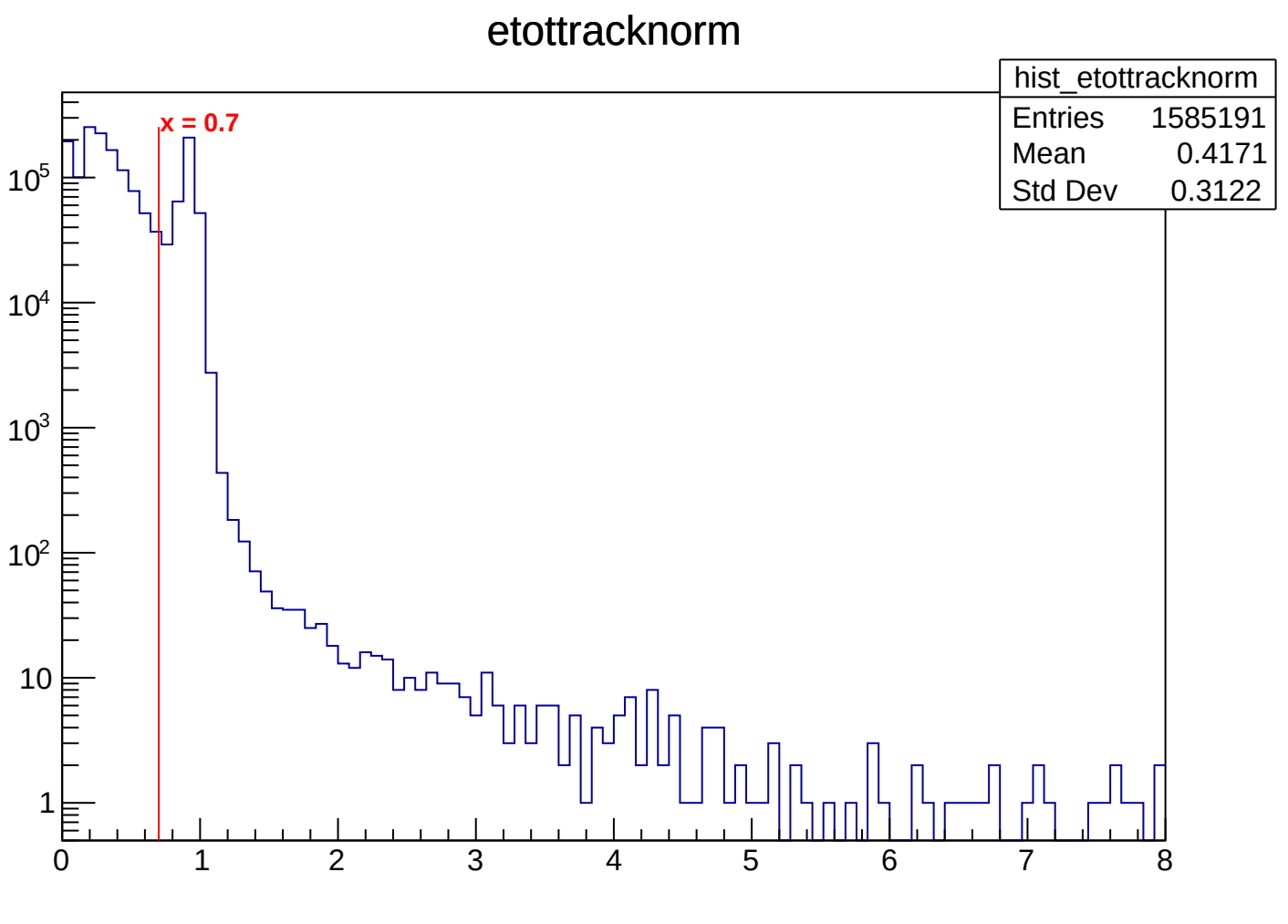
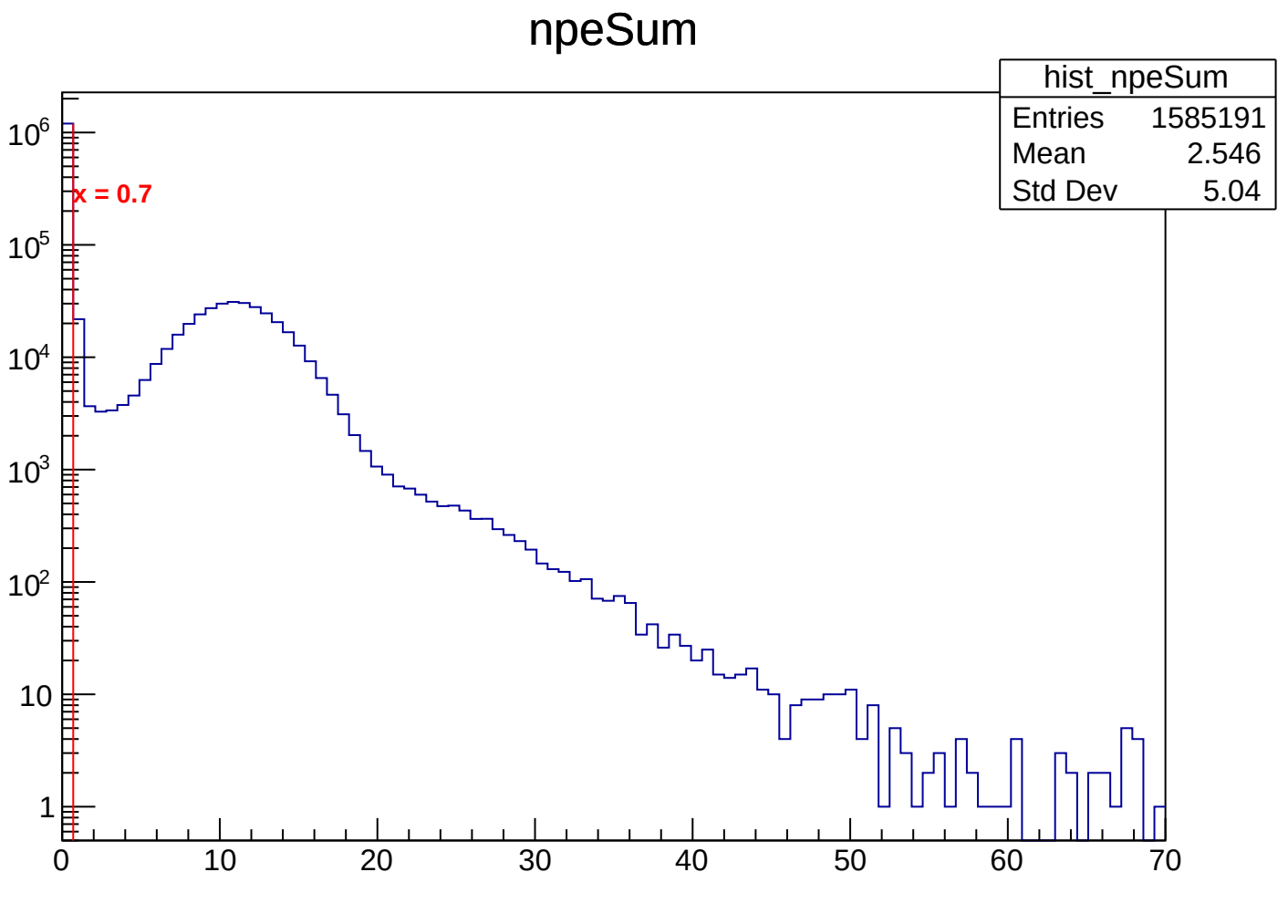
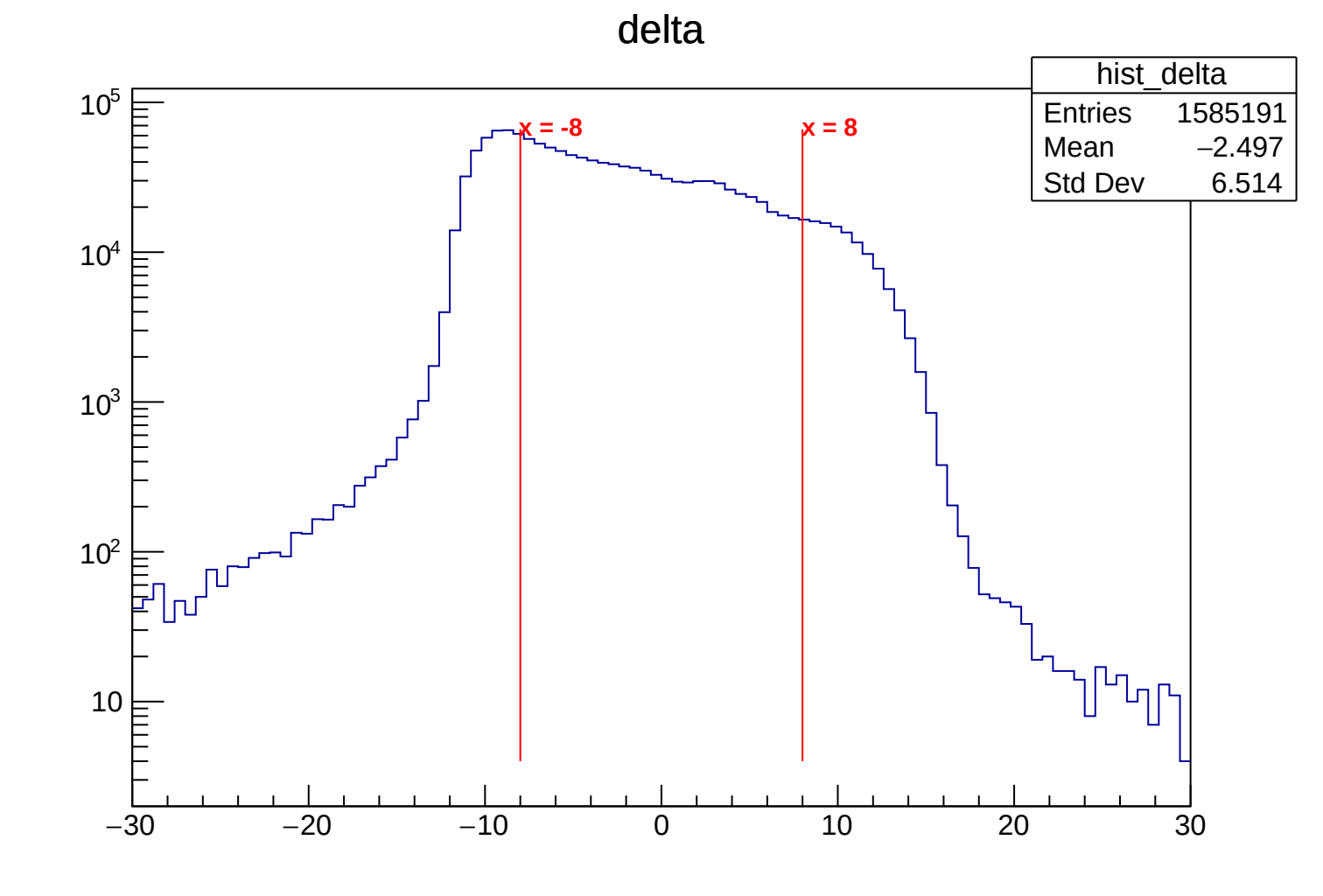
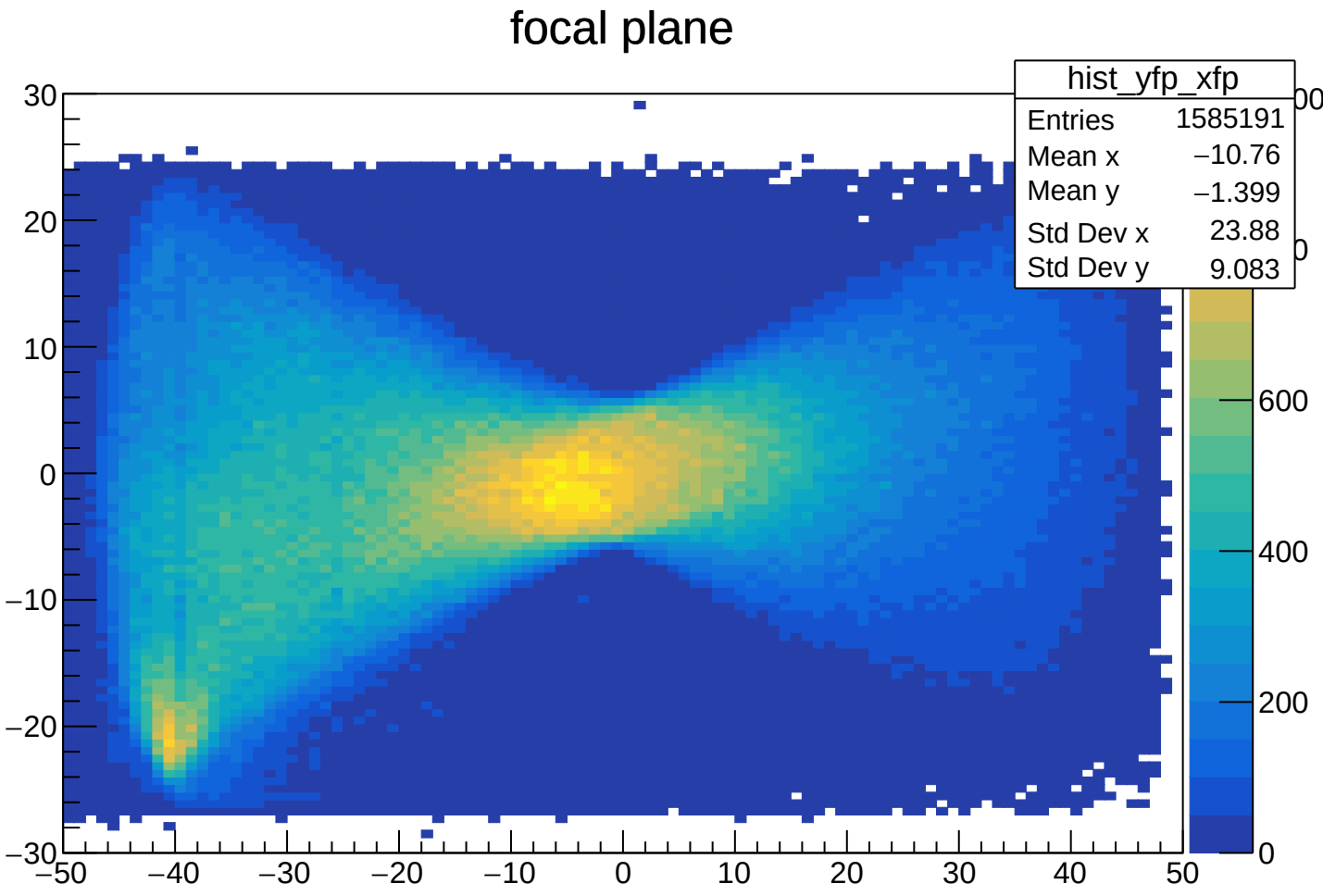
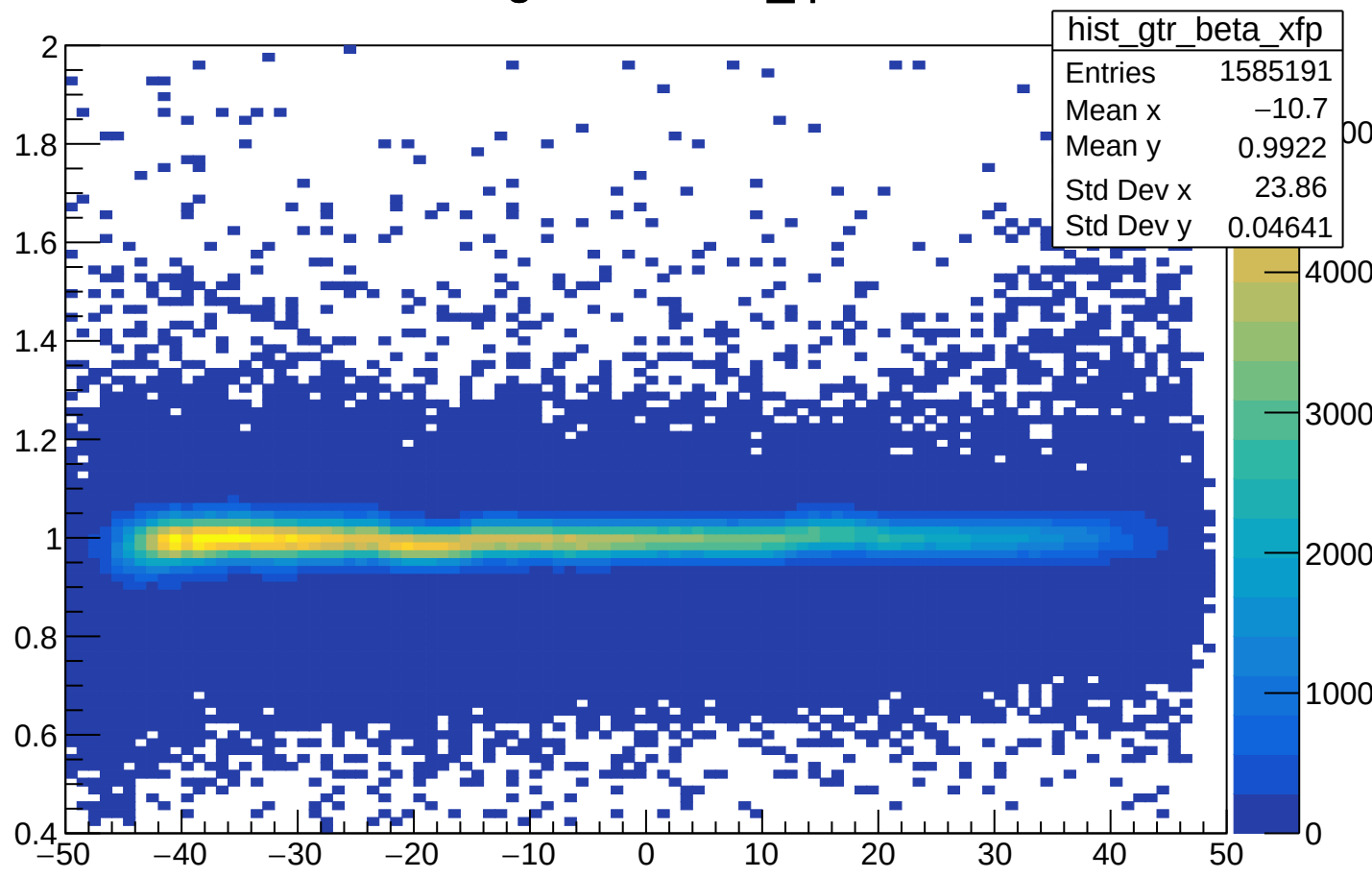

H.gtr.beta
Entries
Beta
Mean (no cuts) = 0.9966 ± 0.0000
Sigma (no cuts) = 0.0298 ± 0.0000
Mean (PID) = 0.9996 ± 0.0001
Sigma (PID) = 0.0277 ± 0.0000
Mean (PID & delta) = 0.9990 ± 0.0001
Sigma (PID & delta) = 0.0259 ± 0.0000
H.gtr.beta without cuts
Fit: H.gtr.beta without cuts
H.gtr.beta with PID cuts
Fit: H.gtr.beta with PID cuts
H.gtr.beta with PID and delta cuts
Fit: H.gtr.beta with PID and delta cuts

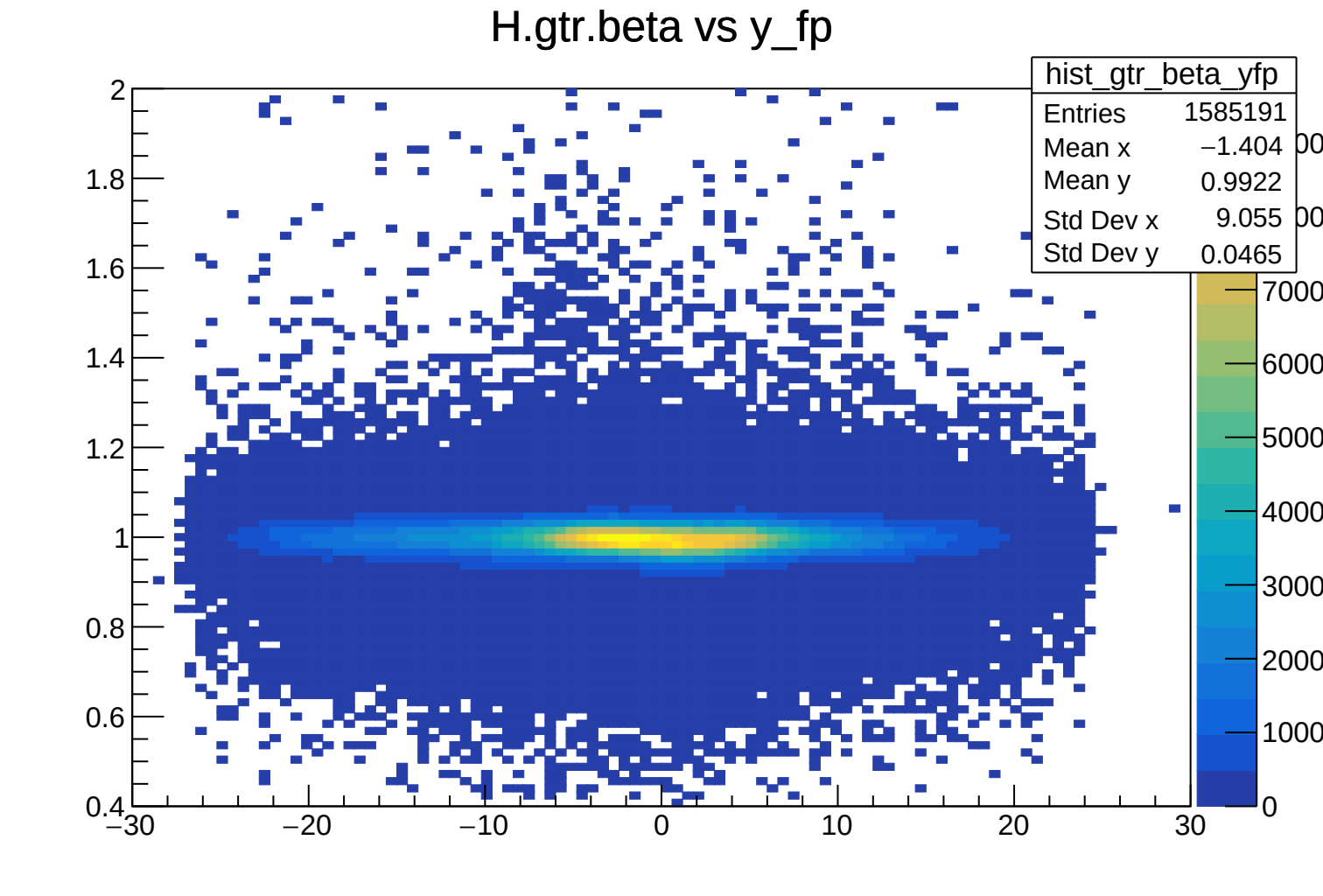

etottracknorm
hist_etottracknorm
Entries 1585191
Mean 0.4171
Std Dev 0.3122
x = 0.7
10^5
10^4
10^3
10^2
10
1
0
1
2
3
4
5
6
7
8

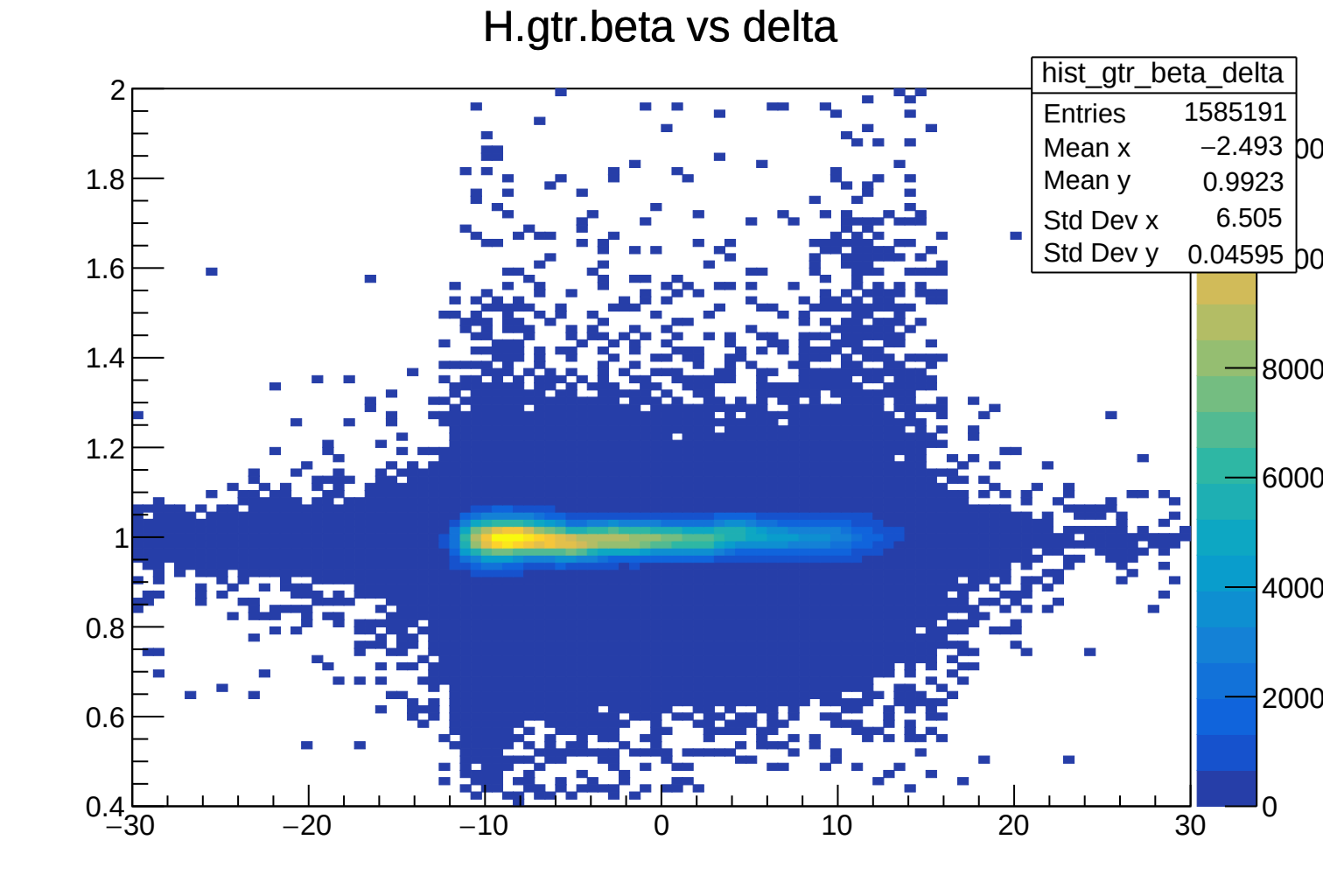

npeSum
hist_npeSum
Entries 1585191
Mean 2.546
Std Dev 5.04
x = 0.7
10^6
10^5
10^4
10^3
10^2
10
1
0
10
20
30
40
50
60
70

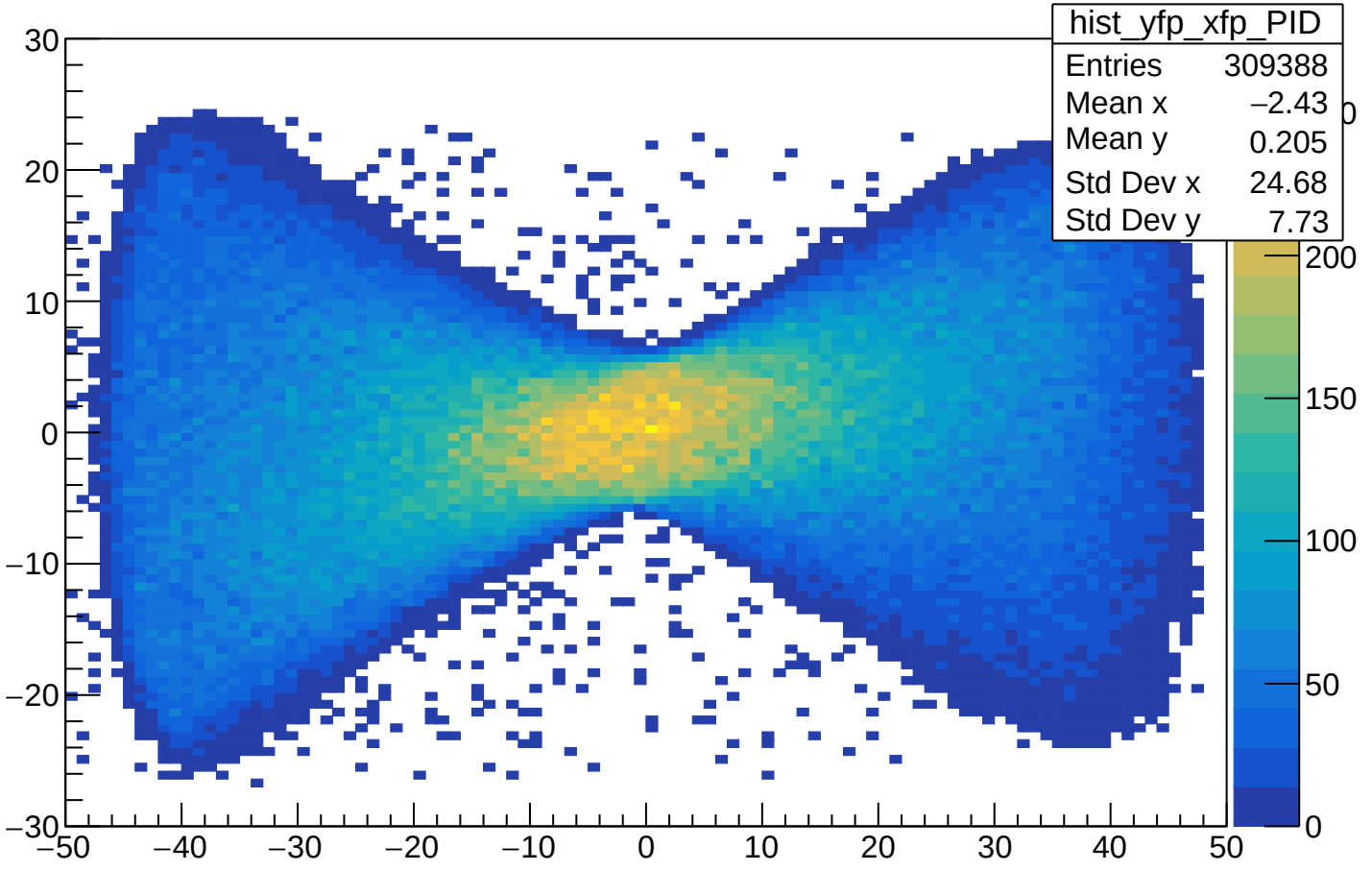

delta
hist_delta
Entries 1585191
Mean −2.497
Std Dev 6.514
x = -8
x = 8
10^5
10^4
10^3
10^2
10
−30
−20
−10
0
10
20
30

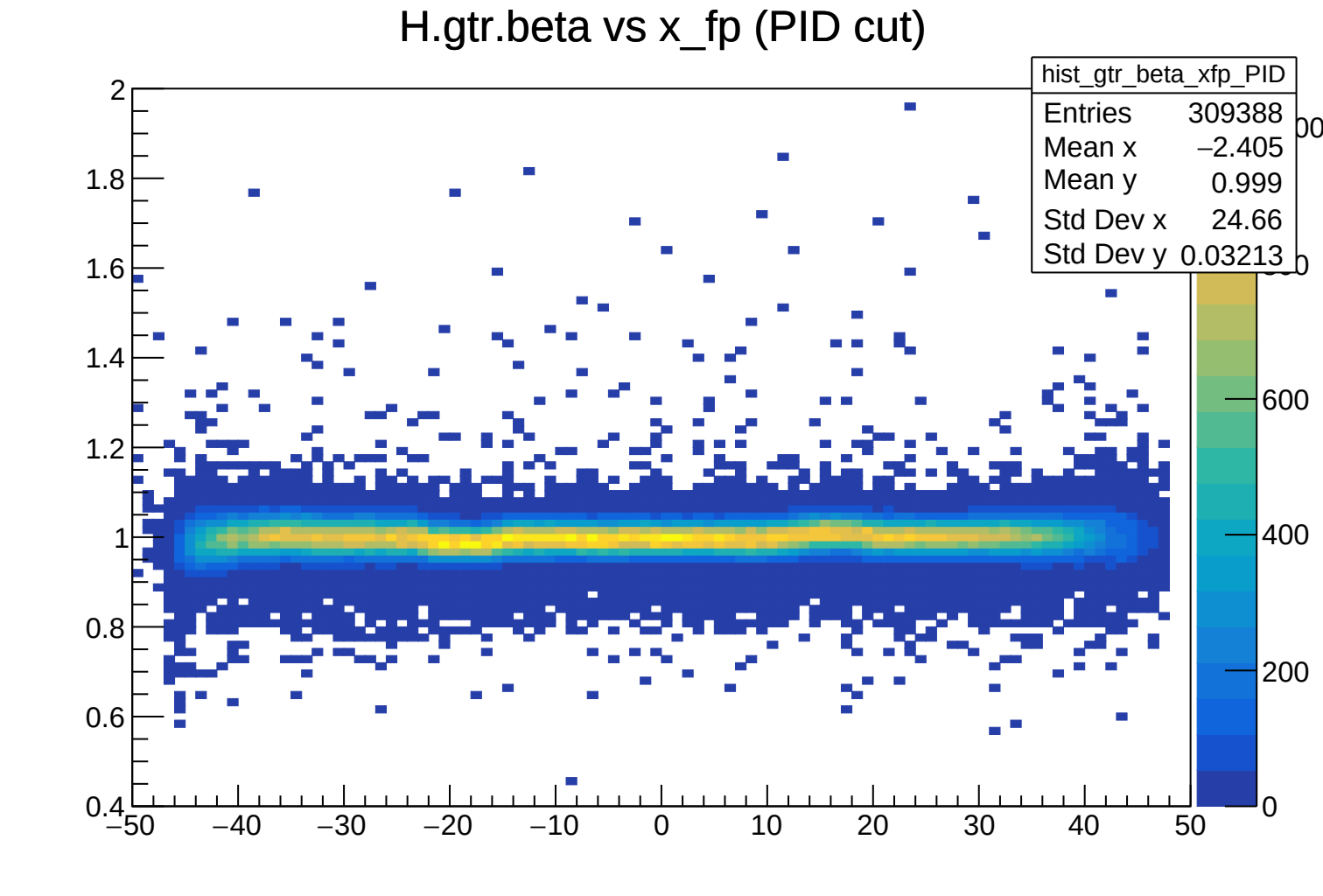

focal plane
hist_yfp_xfp
Entries 1585191
Mean x −10.76
Mean y −1.399
Std Dev x 23.88
Std Dev y 9.083
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
600
400
200
0

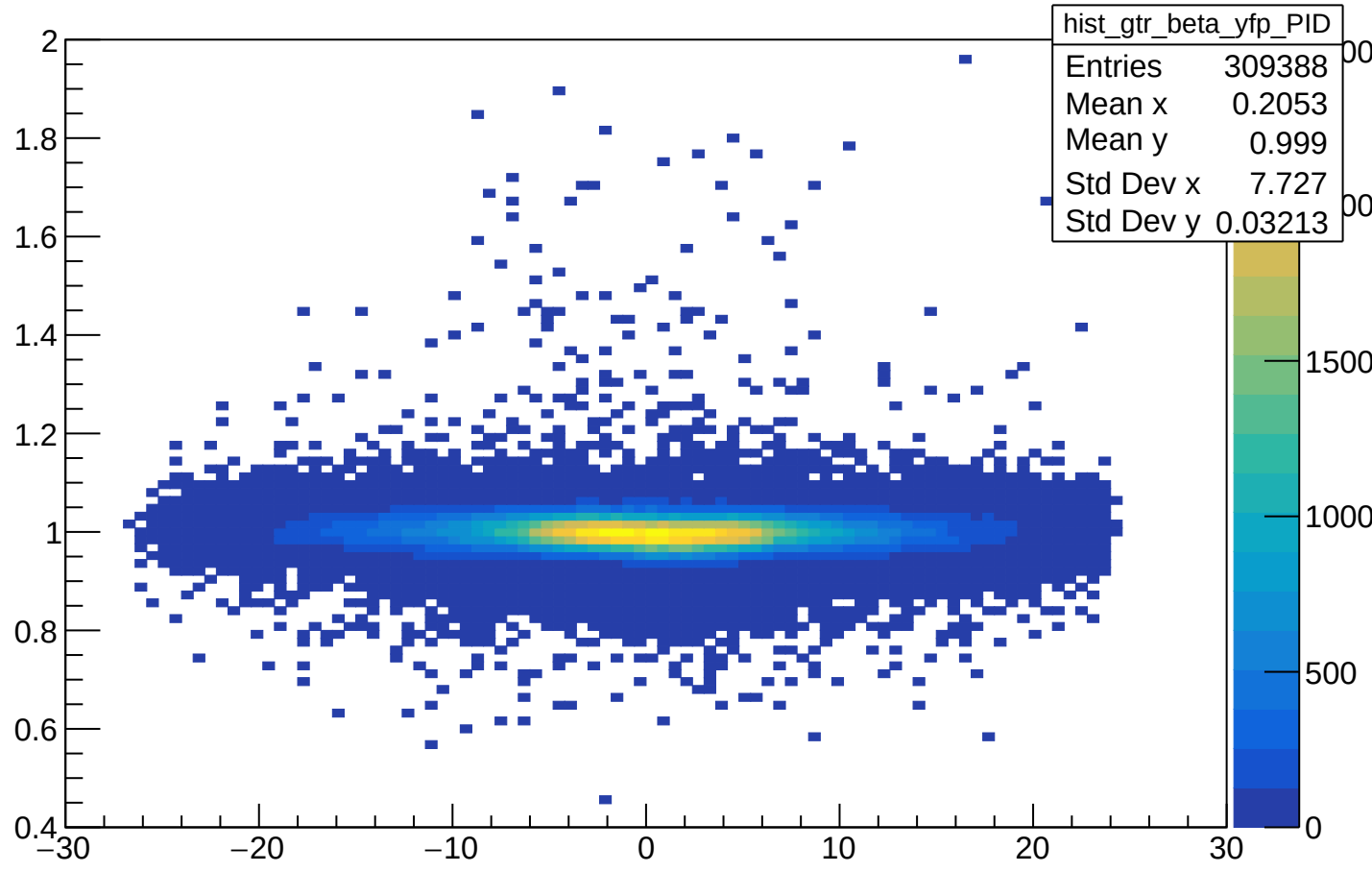

H.gtr.beta vs x_fp
hist_gtr_beta_xfp
Entries 1585191
Mean x −10.7
Mean y 0.9922
Std Dev x 23.86
Std Dev y 0.04641
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−50
−40
−30
−20
−10
0
10
20
30
40
50
4000
3000
2000
1000
0

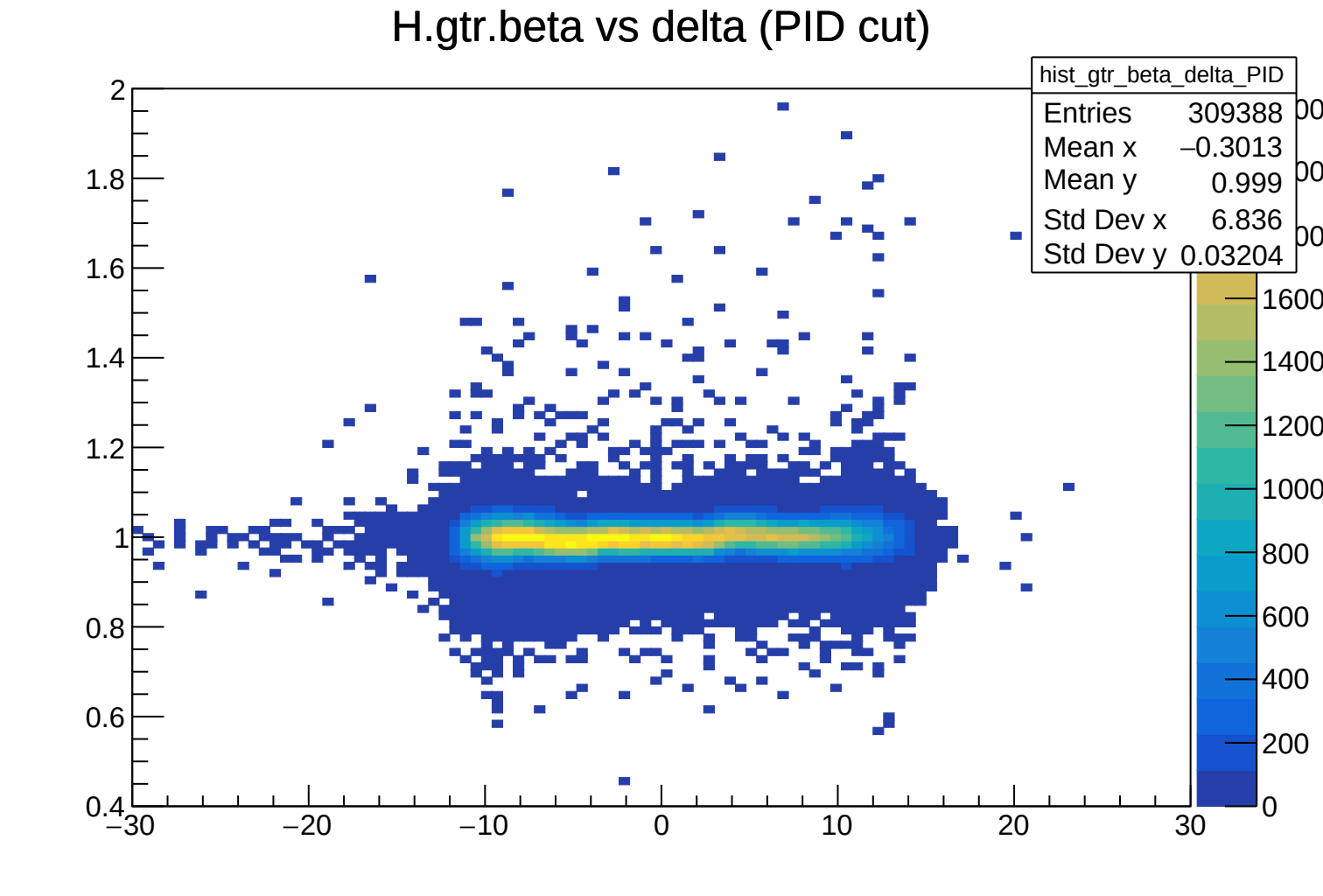

H.gtr.beta vs y_fp
hist_gtr_beta_yfp
Entries 1585191
Mean x −1.404
Mean y 0.9922
Std Dev x 9.055
Std Dev y 0.0465
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
7000
6000
5000
4000
3000
2000
1000
0

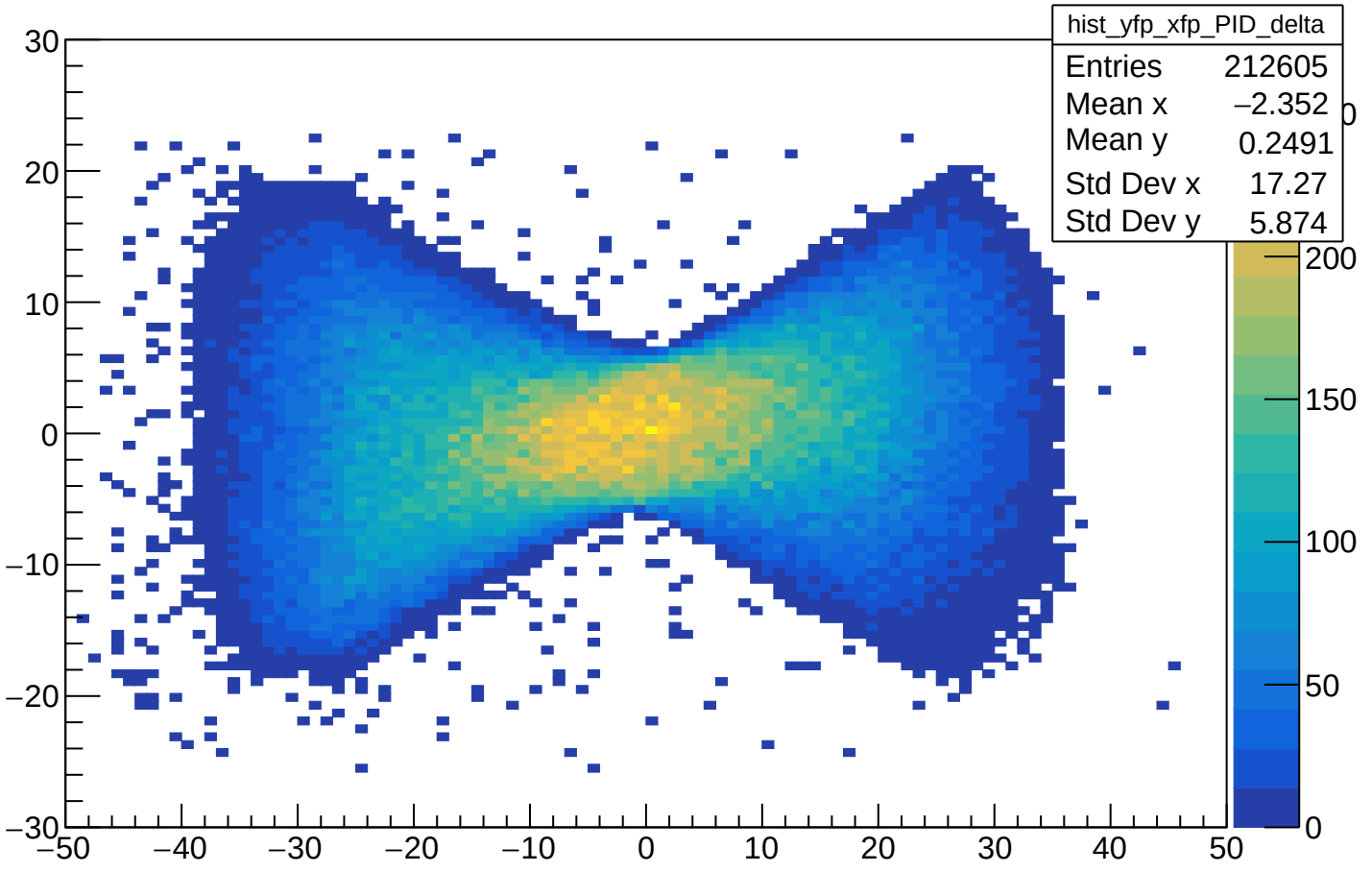

H.gtr.beta vs delta
hist_gtr_beta_delta
Entries 1585191
Mean x −2.493
Mean y 0.9923
Std Dev x 6.505
Std Dev y 0.04595
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
8000
6000
4000
2000
0

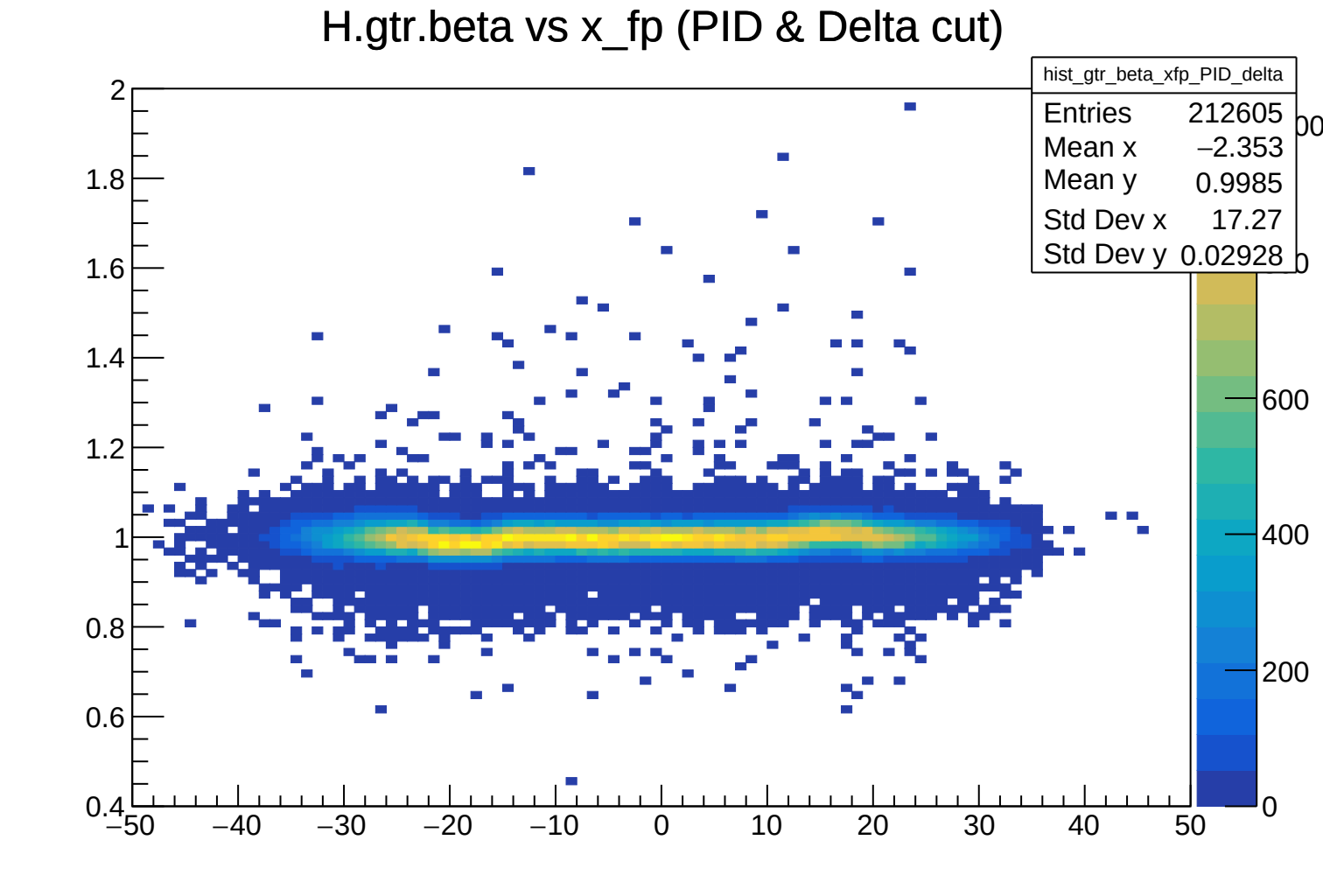

focal plane (PID cut)
hist_yfp_xfp_PID
Entries 309388
Mean x −2.43
Mean y 0.205
Std Dev x 24.68
Std Dev y 7.73
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
200
150
100
50
0

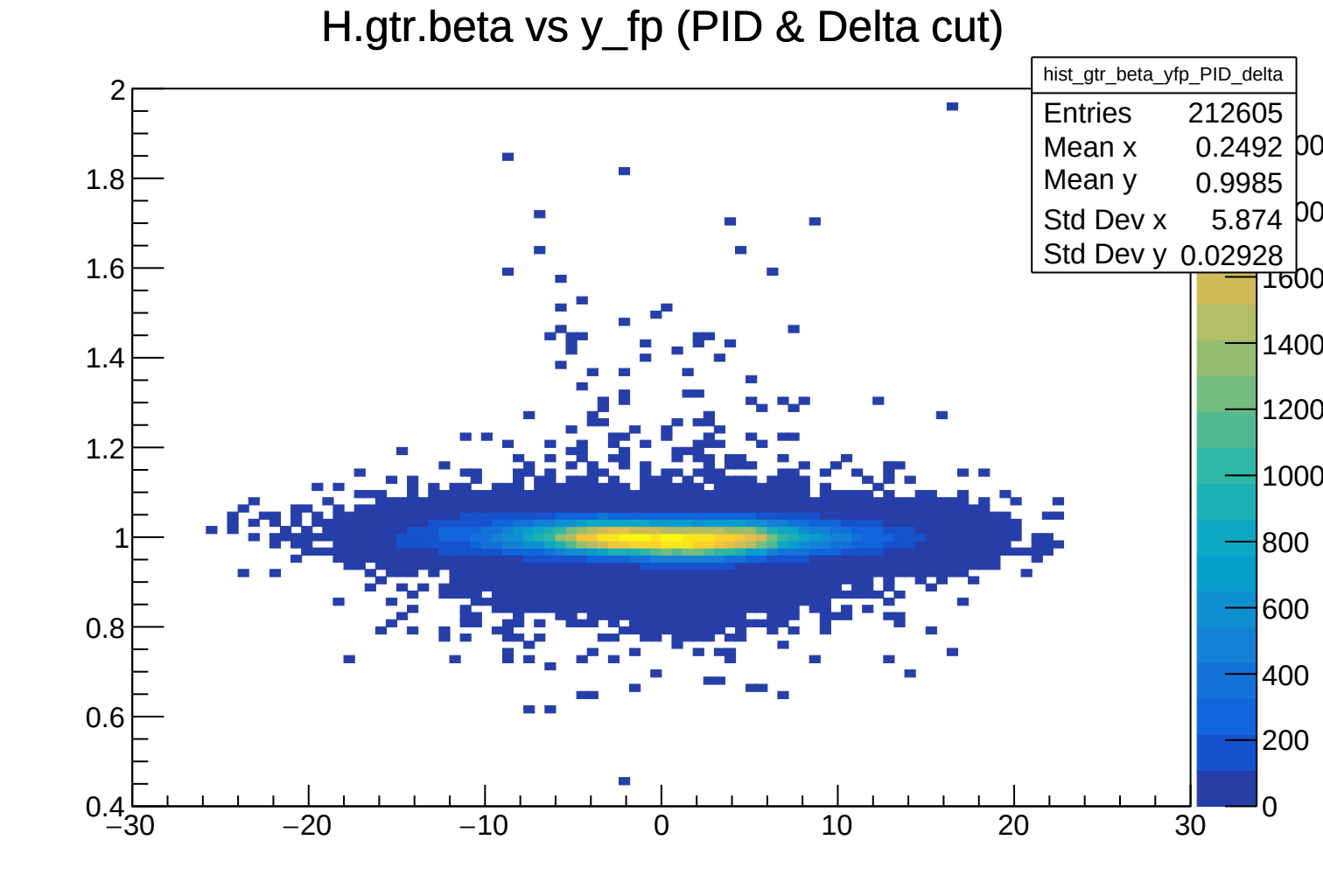

H.gtr.beta vs x_fp (PID cut)
hist_gtr_beta_xfp_PID
Entries 309388
Mean x −2.405
Mean y 0.999
Std Dev x 24.66
Std Dev y 0.03213
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−50
−40
−30
−20
−10
0
10
20
30
40
50
600
400
200
0

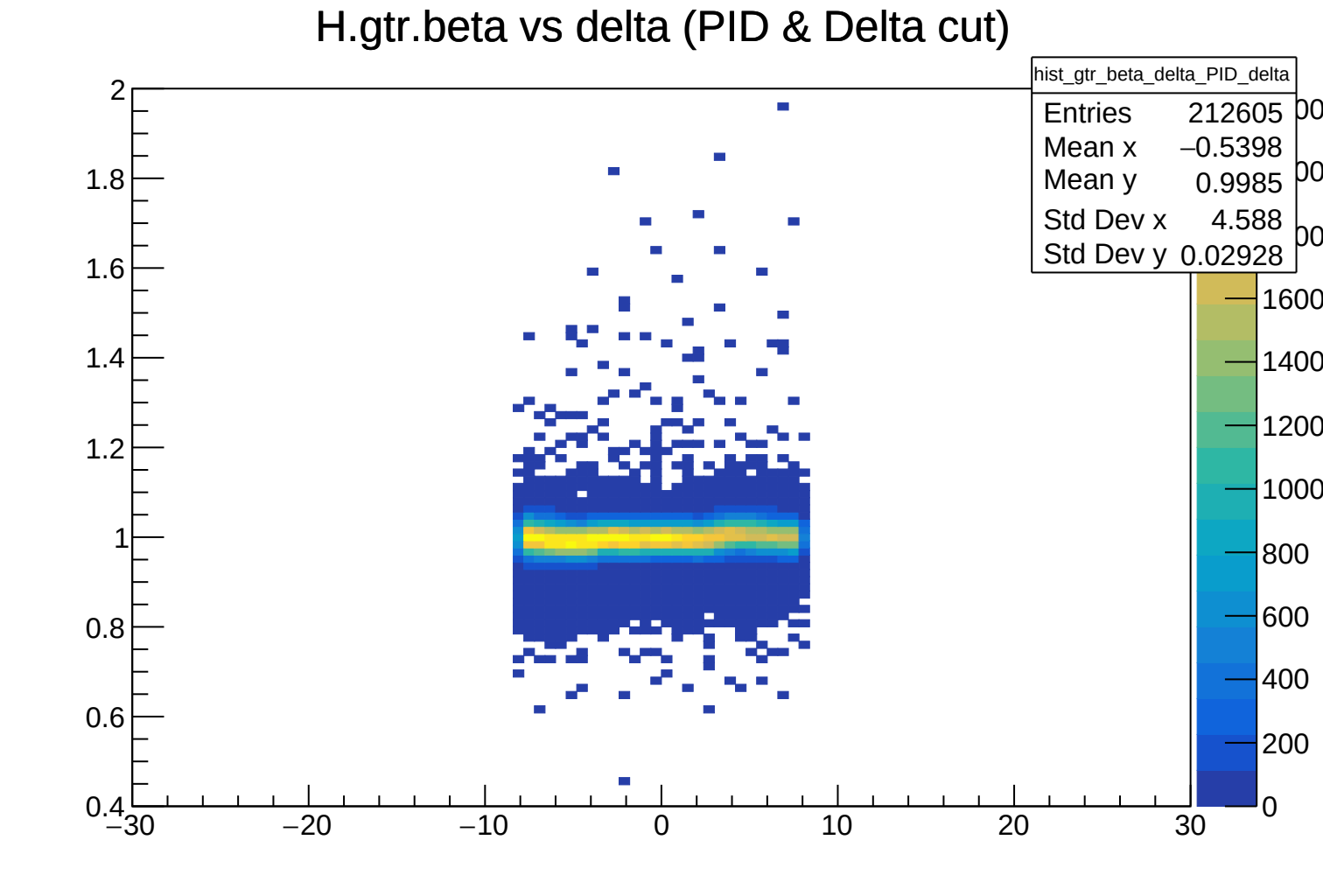

H.gtr.beta vs y_fp (PID cut)
hist_gtr_beta_yfp_PID
Entries 309388
Mean x 0.2053
Mean y 0.999
Std Dev x 7.727
Std Dev y 0.03213
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
1500
1000
500
0


H.gtr.beta vs delta (PID cut)
hist_gtr_beta_delta_PID
Entries 309388
Mean x −0.3013
Mean y 0.999
Std Dev x 6.836
Std Dev y 0.03204
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 & Delta cut)
hist_yfp_xfp_PID_delta
Entries 212605
Mean x −2.352
Mean y 0.2491
Std Dev x 17.27
Std Dev y 5.874
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 212605
Mean x −2.353
Mean y 0.9985
Std Dev x 17.27
Std Dev y 0.02928
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
400
200
0


H.gtr.beta vs y_fp (PID & Delta cut)
hist_gtr_beta_yfp_PID_delta
Entries 212605
Mean x 0.2492
Mean y 0.9985
Std Dev x 5.874
Std Dev y 0.02928
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 212605
Mean x −0.5398
Mean y 0.9985
Std Dev x 4.588
Std Dev y 0.02928
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