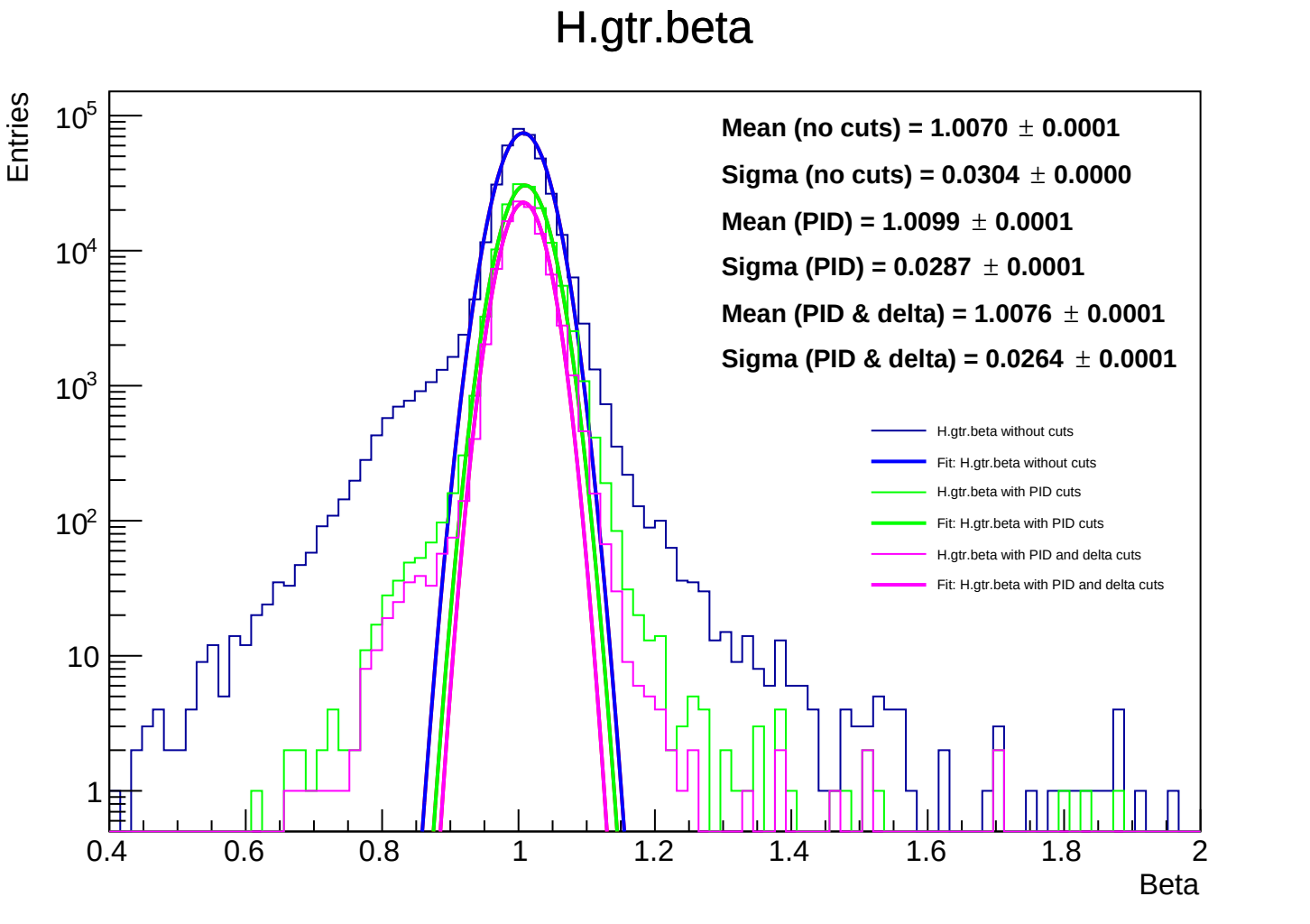
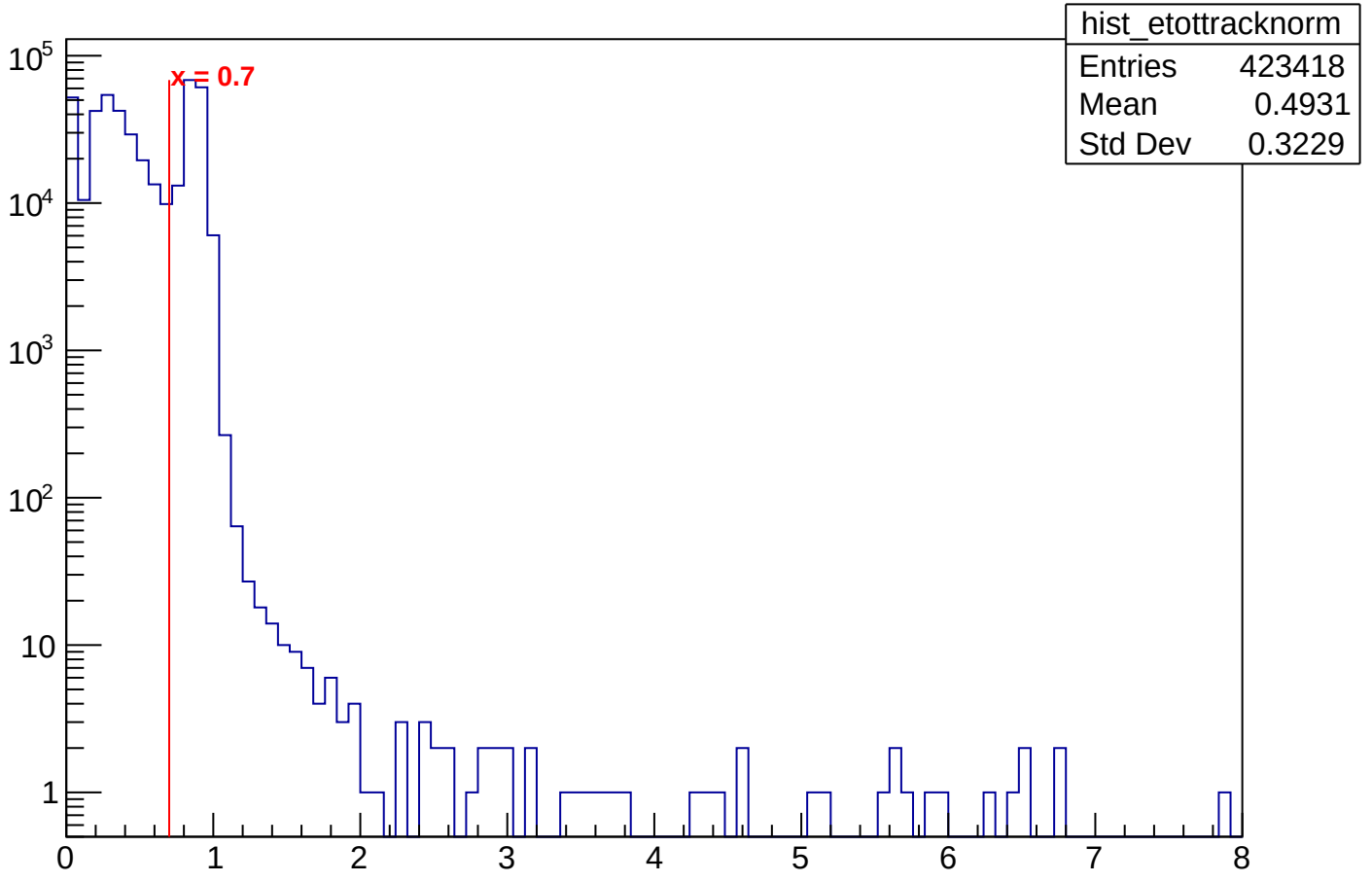
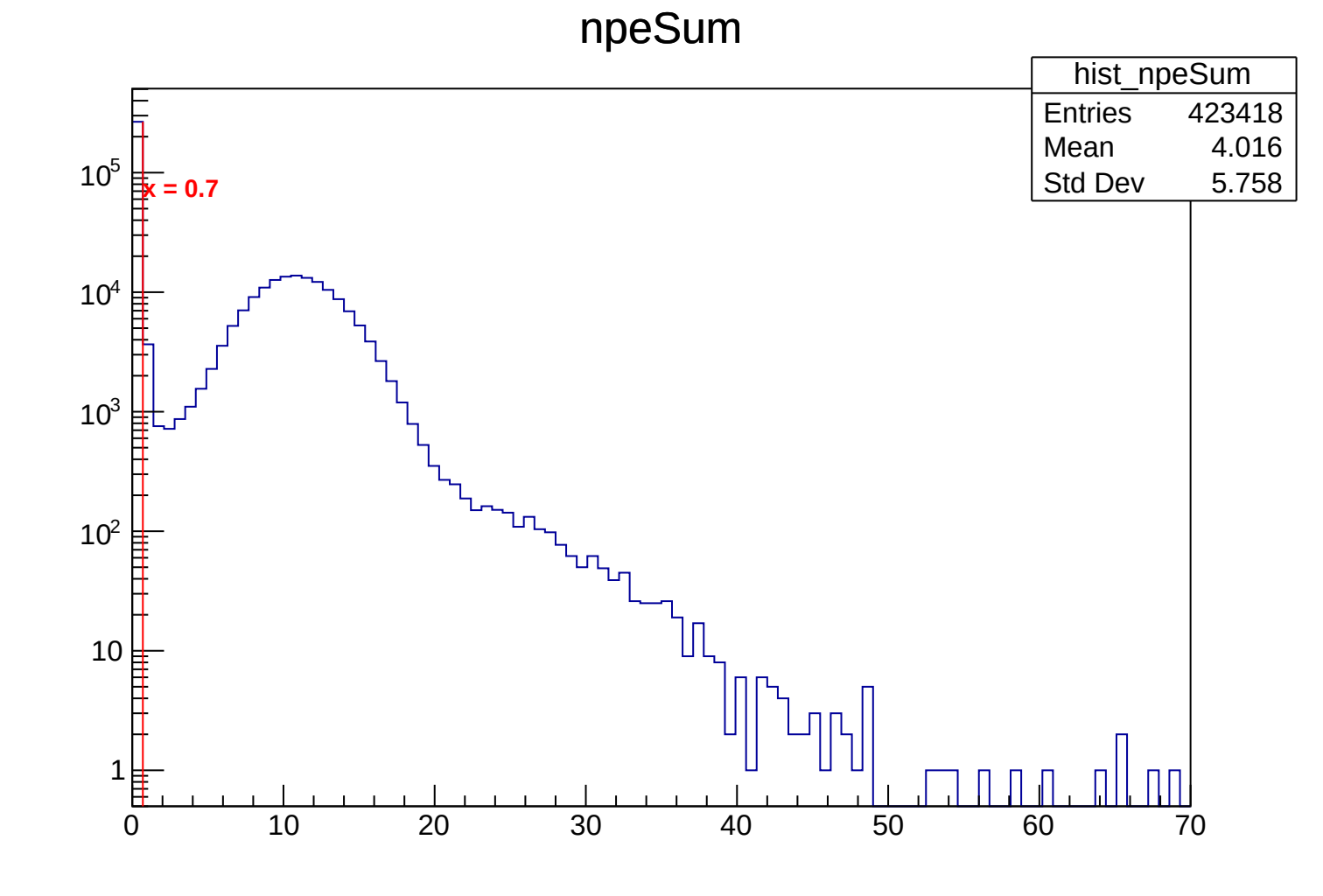
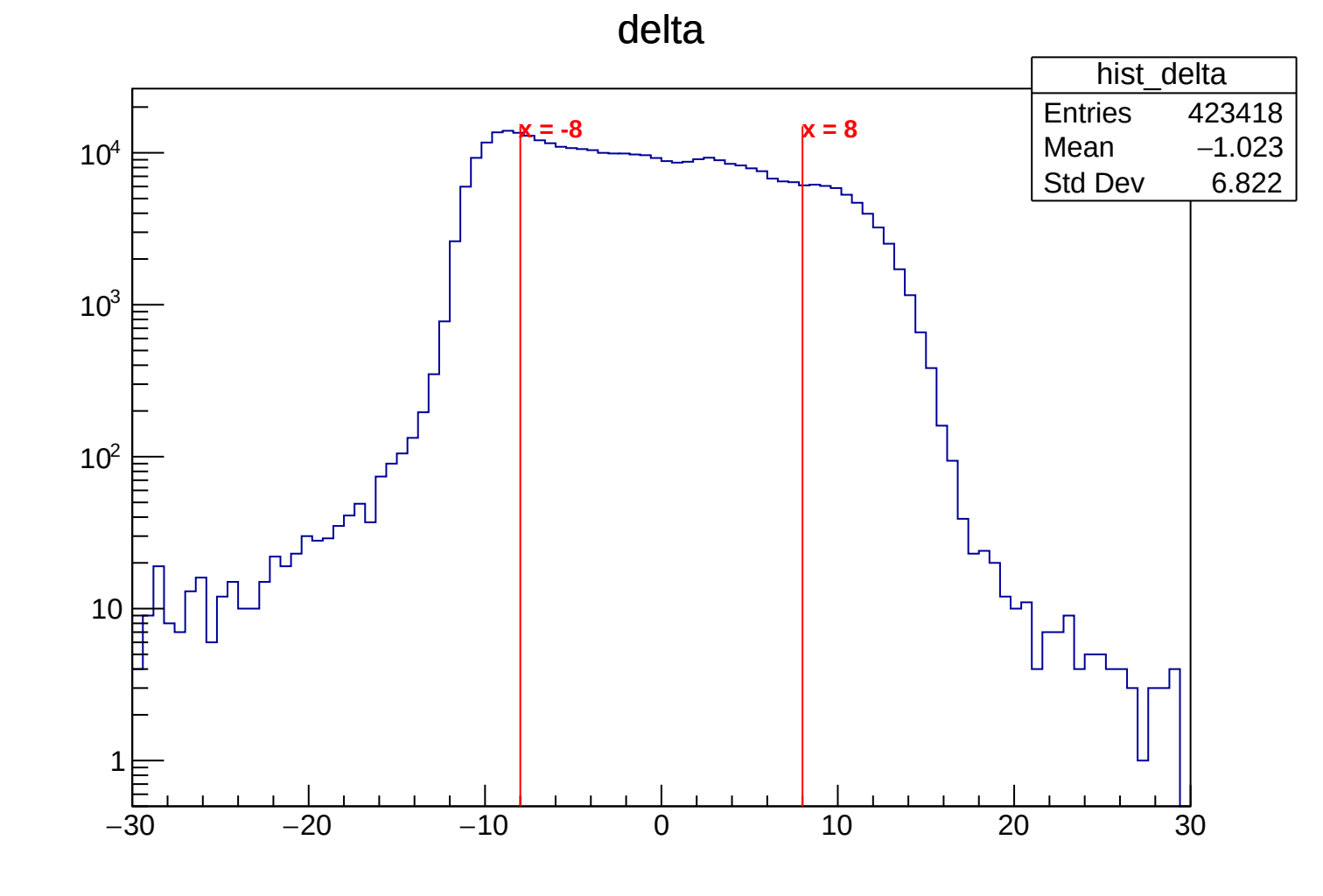
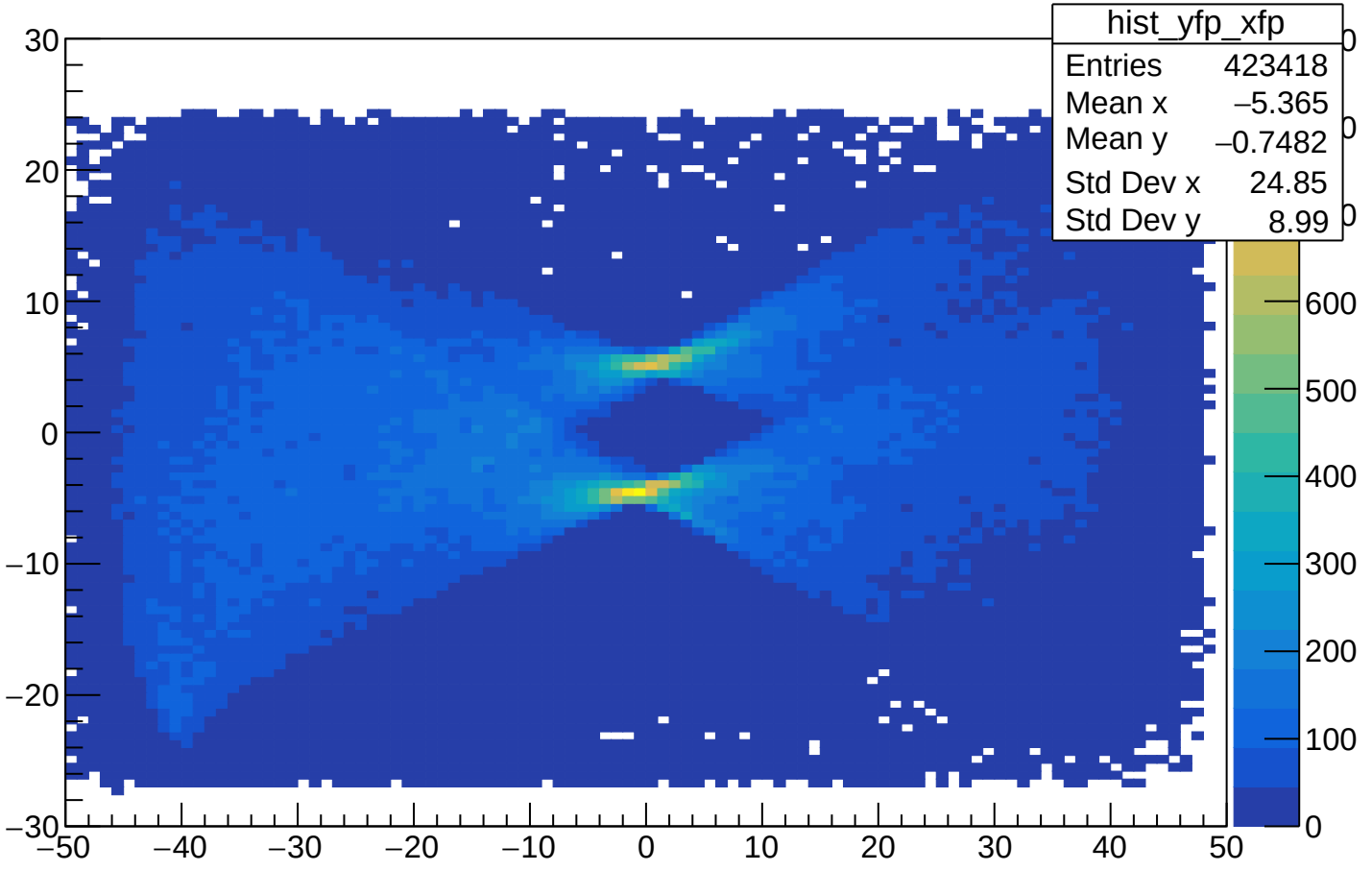
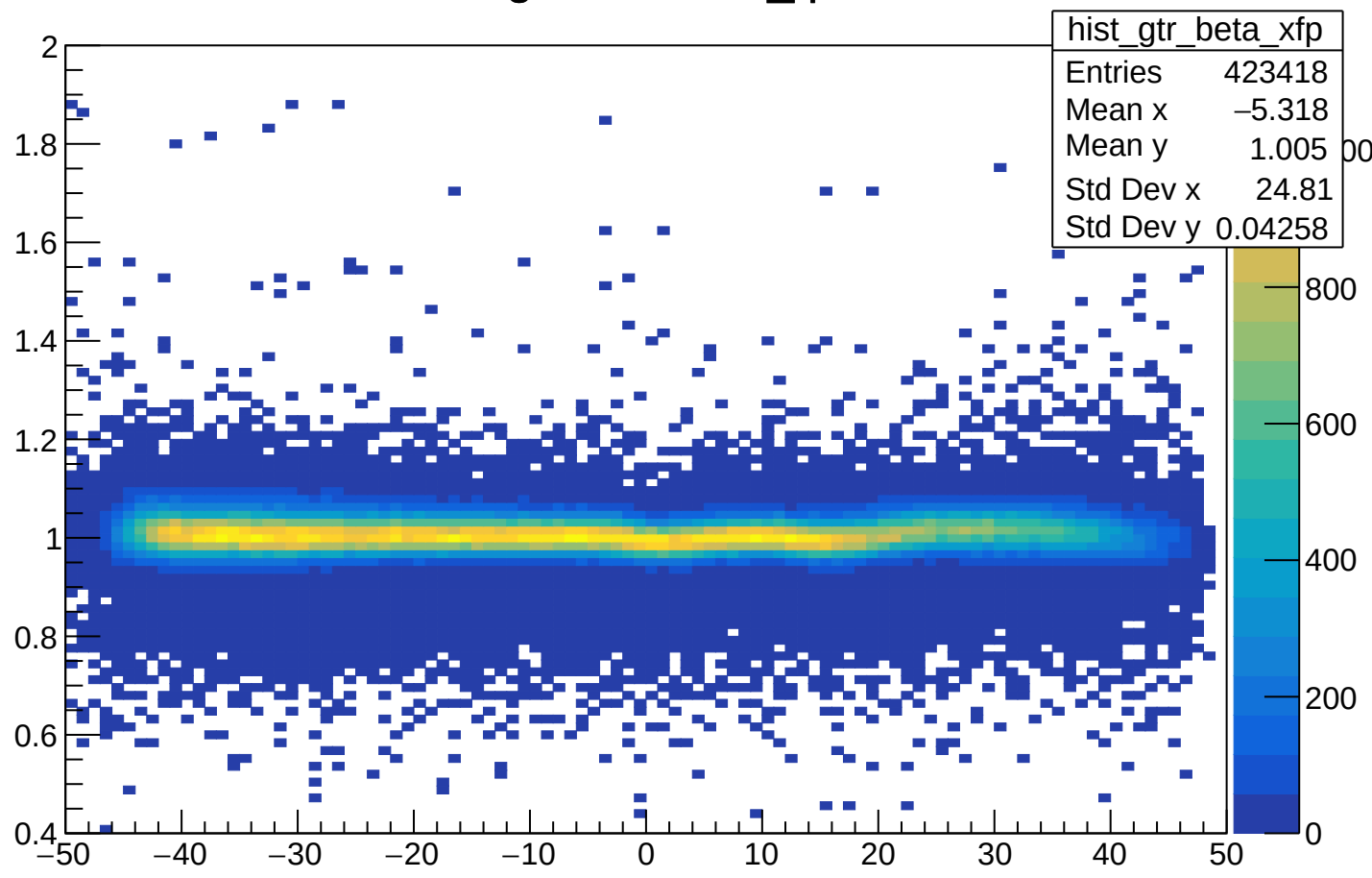

H.gtr.beta
Entries
Beta
Mean (no cuts) = 1.0070 ± 0.0001
Sigma (no cuts) = 0.0304 ± 0.0000
Mean (PID) = 1.0099 ± 0.0001
Sigma (PID) = 0.0287 ± 0.0001
Mean (PID & delta) = 1.0076 ± 0.0001
Sigma (PID & delta) = 0.0264 ± 0.0001
H.gtr.beta without cuts
Fit: H.gtr.beta without cuts
H.gtr.beta with PID cuts
Fit: H.gtr.beta with PID cuts
H.gtr.beta with PID and delta cuts
Fit: H.gtr.beta with PID and delta cuts

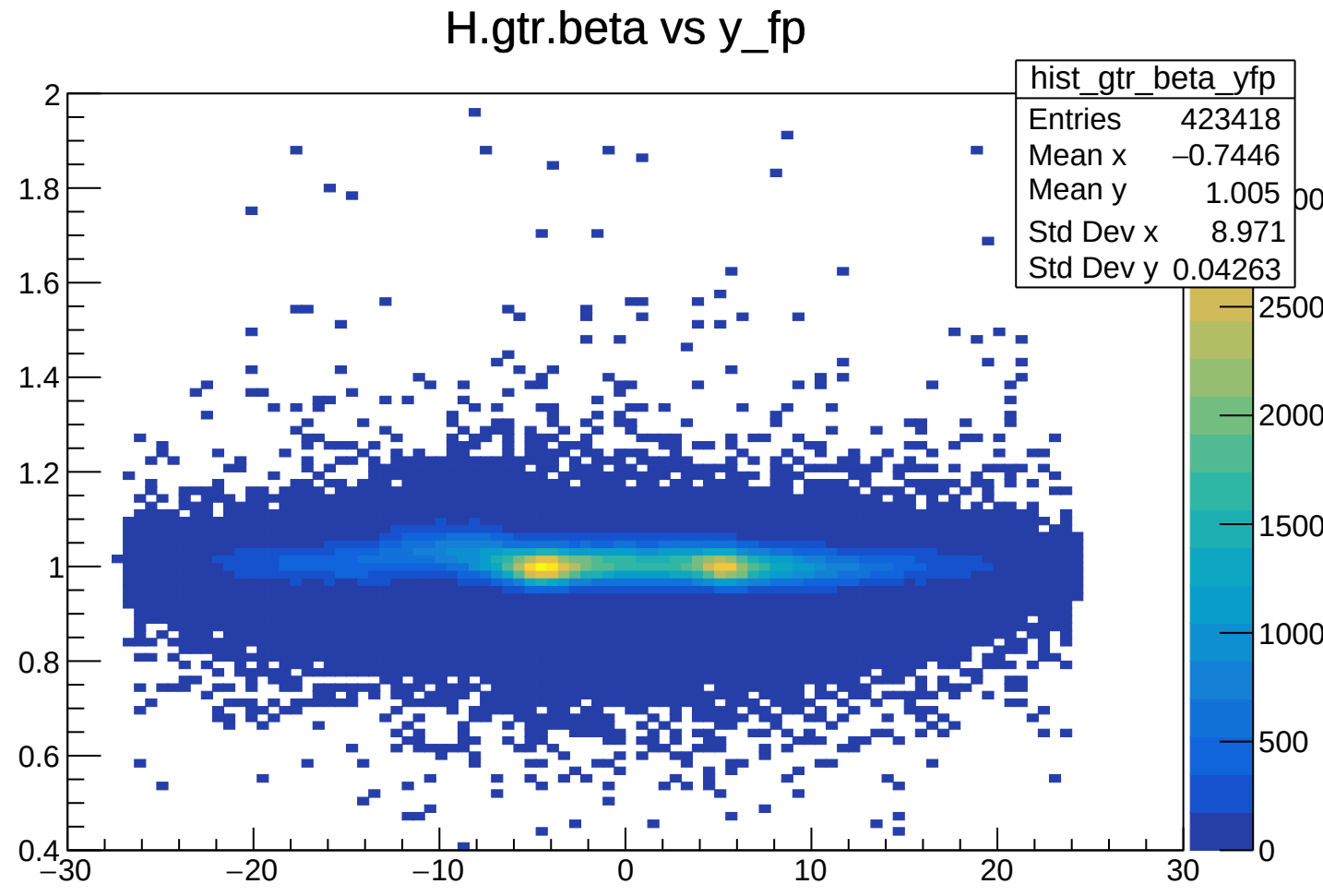

etottracknorm
hist_etottracknorm
Entries 423418
Mean 0.4931
Std Dev 0.3229
x = 0.7
10^5
10^4
10^3
10^2
10
1
0
1
2
3
4
5
6
7
8

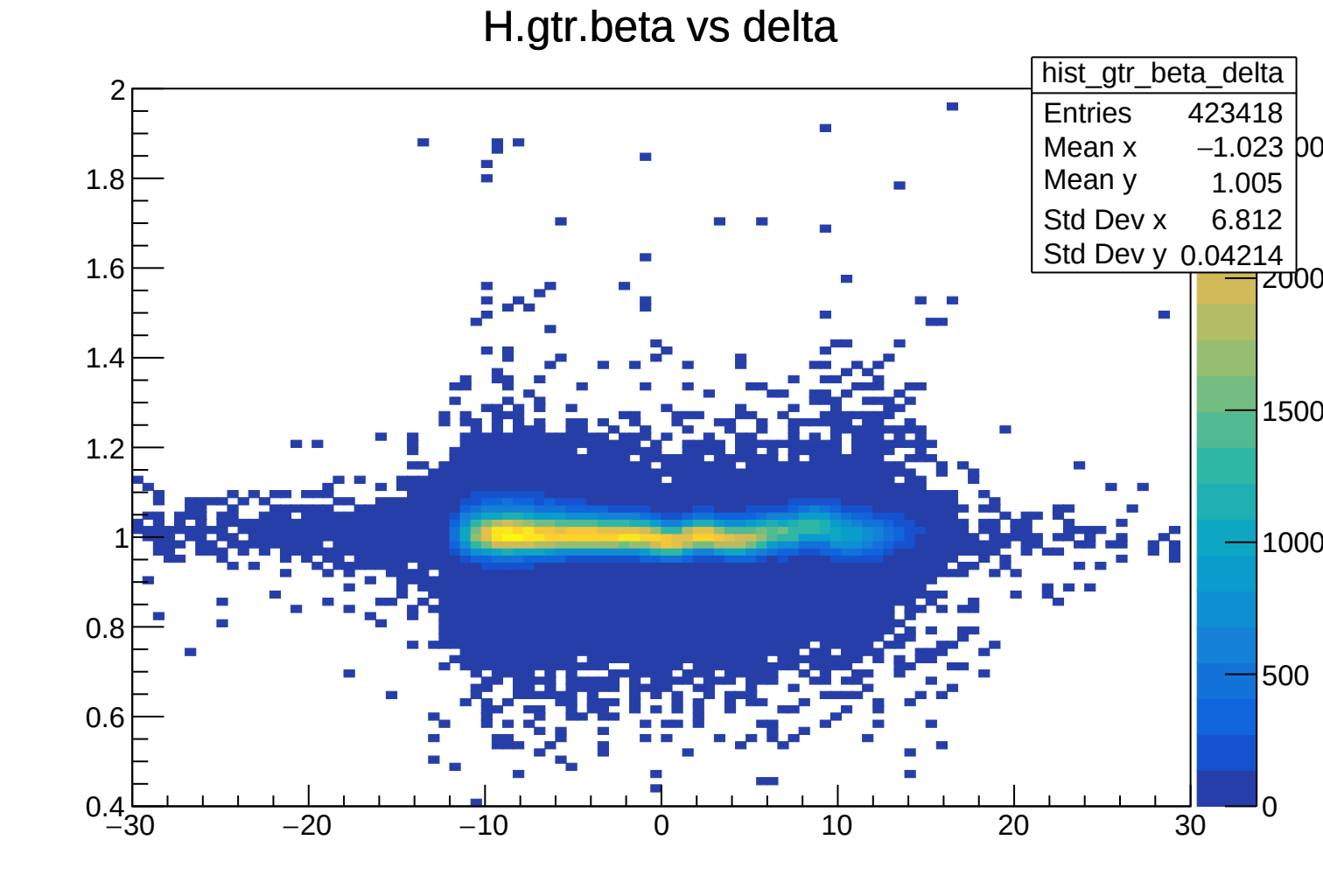

npeSum
hist_npeSum
Entries 423418
Mean 4.016
Std Dev 5.758
x = 0.7
10^5
10^4
10^3
10^2
10
1
0
10
20
30
40
50
60
70

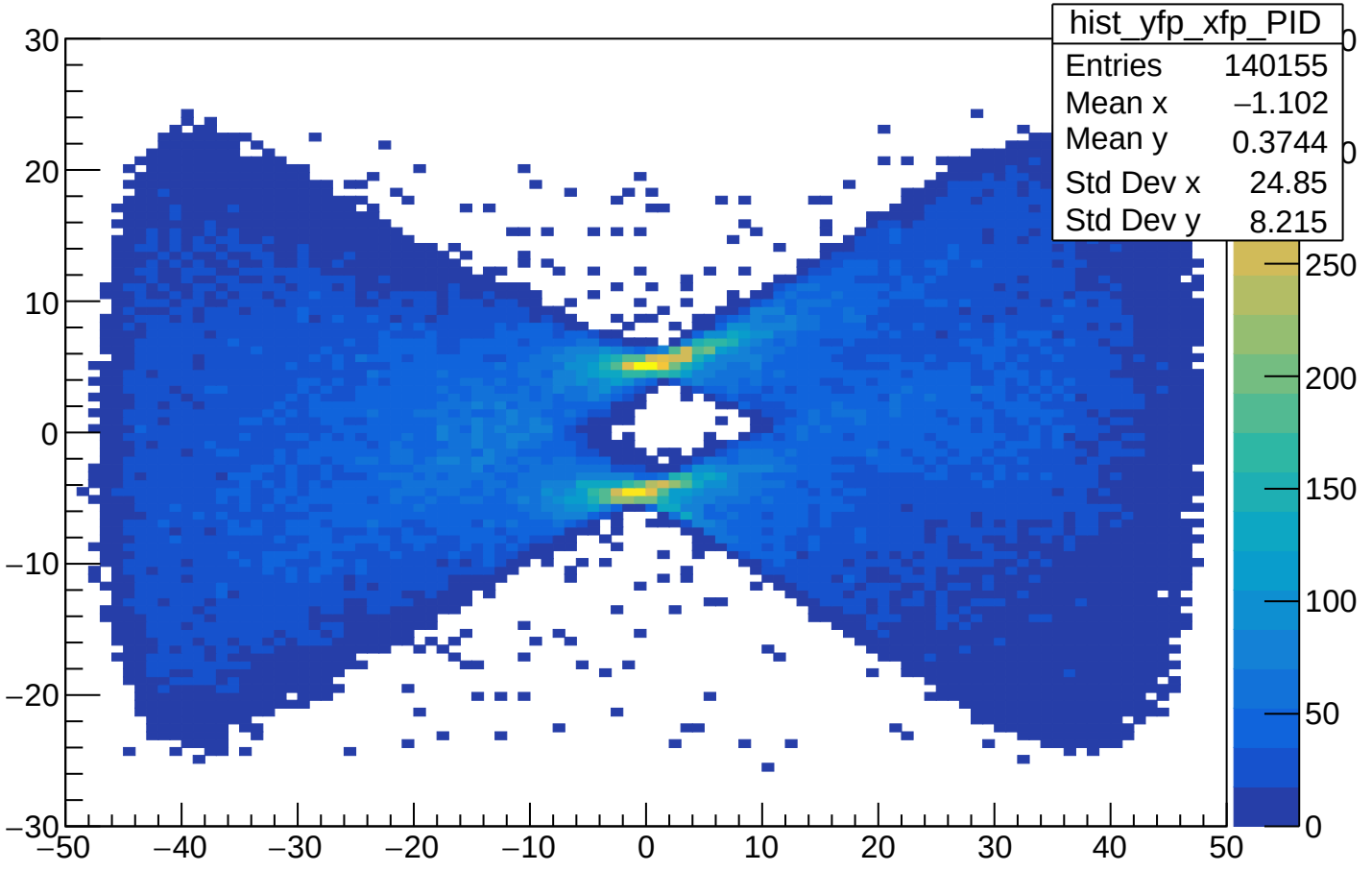

delta
hist_delta
Entries 423418
Mean –1.023
Std Dev 6.822
x = -8
x = 8
10^4
10^3
10^2
10
1
−30
−20
−10
0
10
20
30

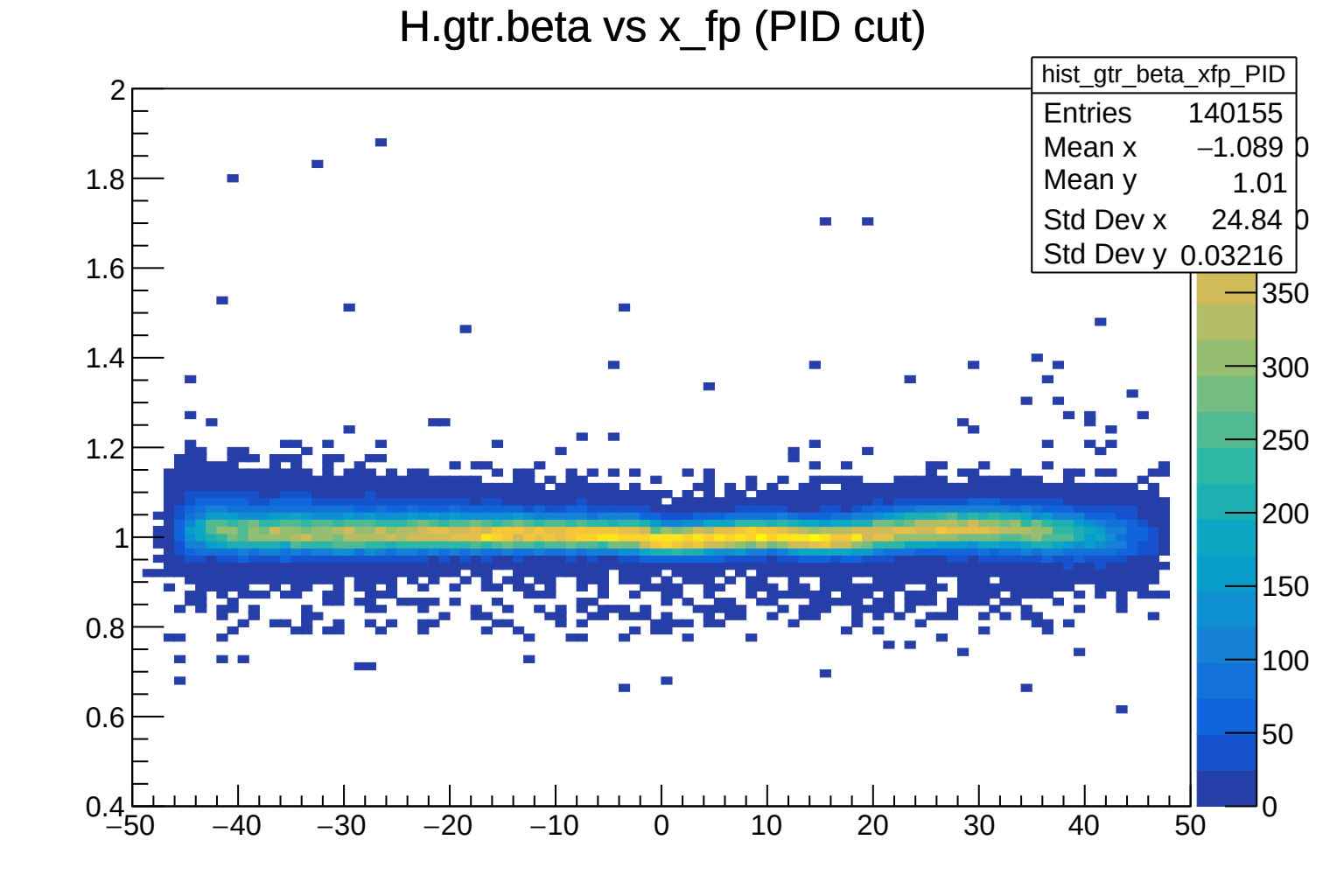

focal plane
hist_yfp_xfp
Entries 423418
Mean x −5.365
Mean y −0.7482
Std Dev x 24.85
Std Dev y 8.99
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
600
500
400
300
200
100
0

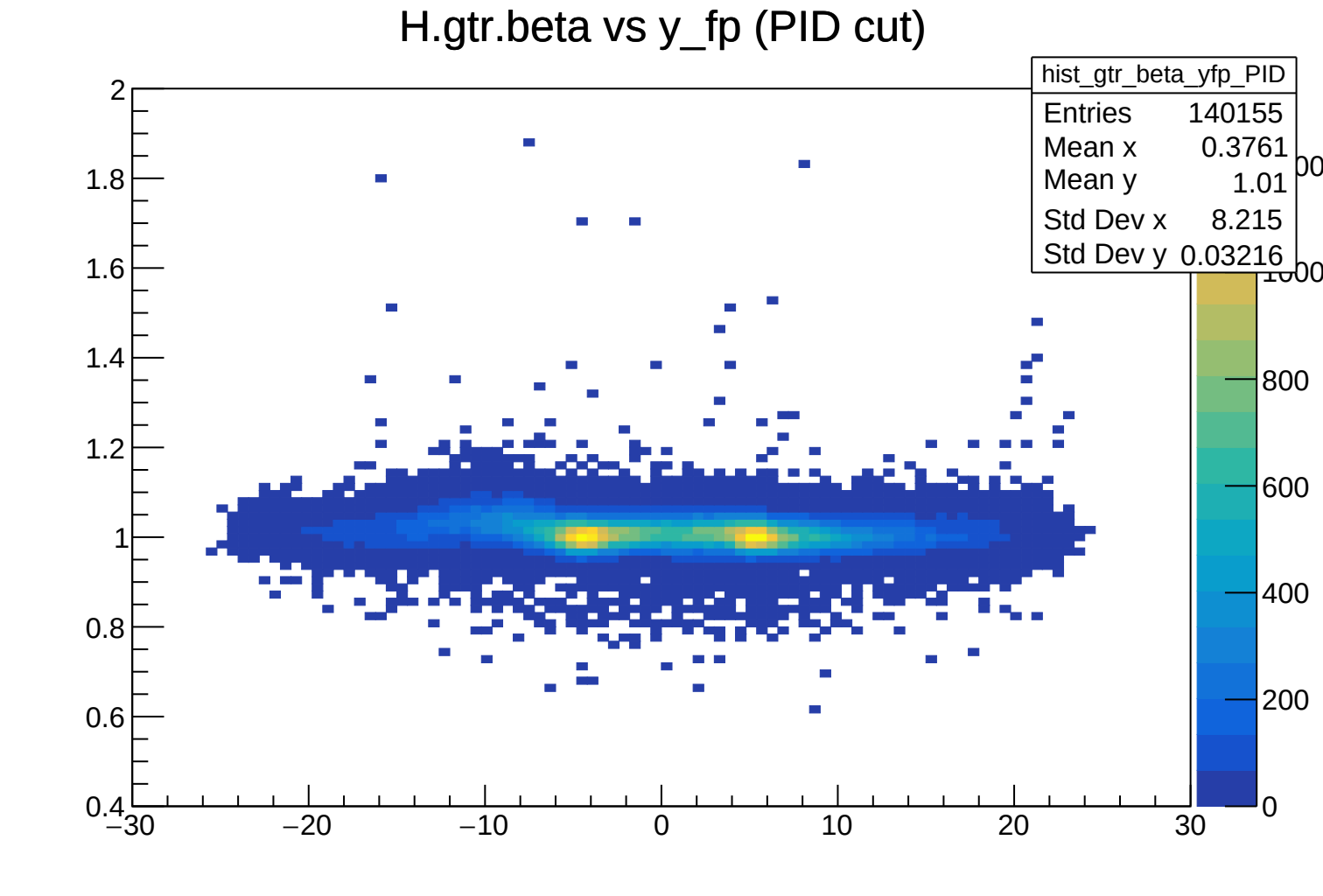

H.gtr.beta vs x_fp
hist_gtr_beta_xfp
Entries 423418
Mean x –5.318
Mean y 1.005
Std Dev x 24.81
Std Dev y 0.04258
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
–50
–40
–30
–20
–10
0
10
20
30
40
50
800
600
400
200
0

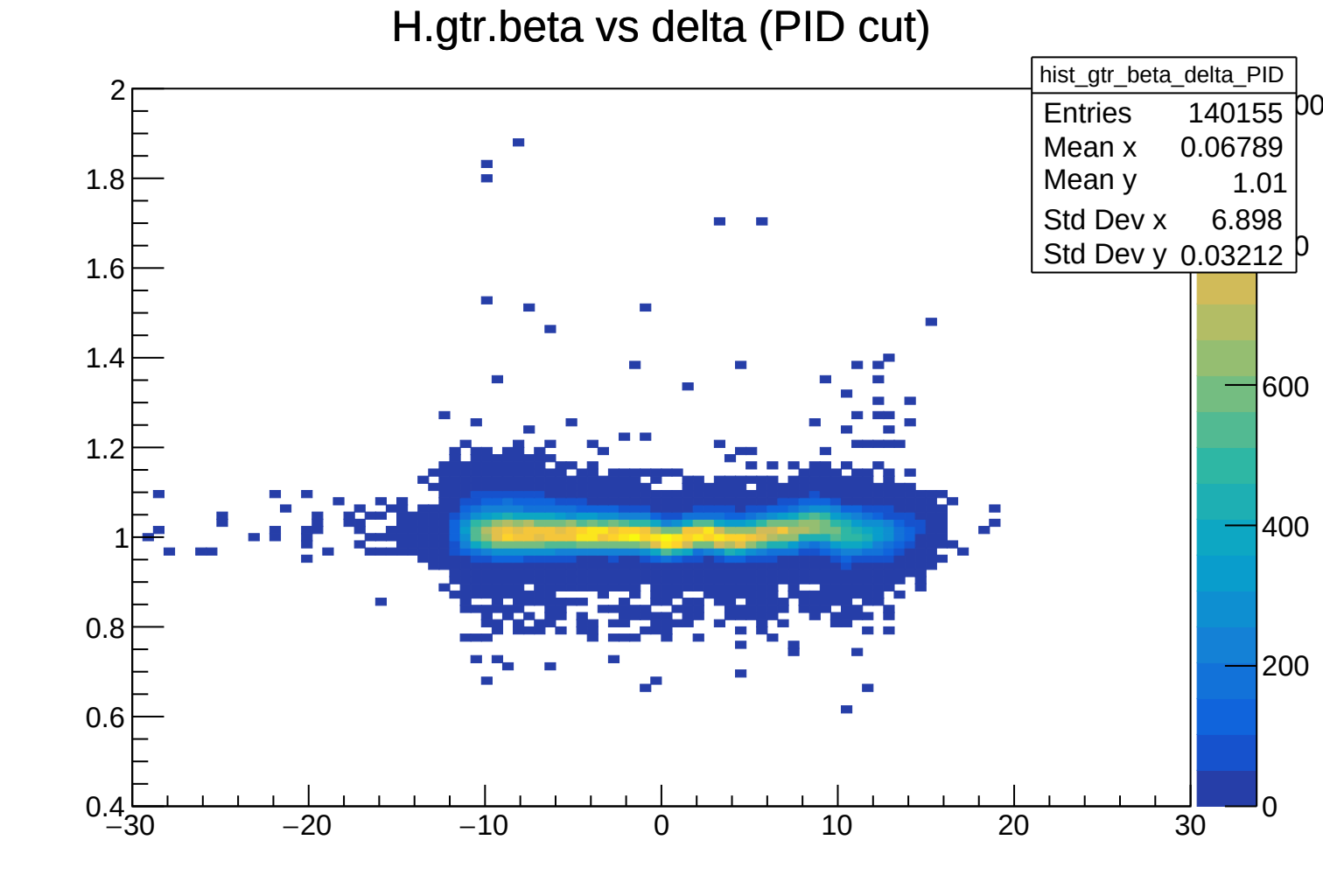

H.gtr.beta vs y_fp
hist_gtr_beta_yfp
Entries 423418
Mean x −0.7446
Mean y 1.005
Std Dev x 8.971
Std Dev y 0.04263
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
2500
2000
1500
1000
500
0

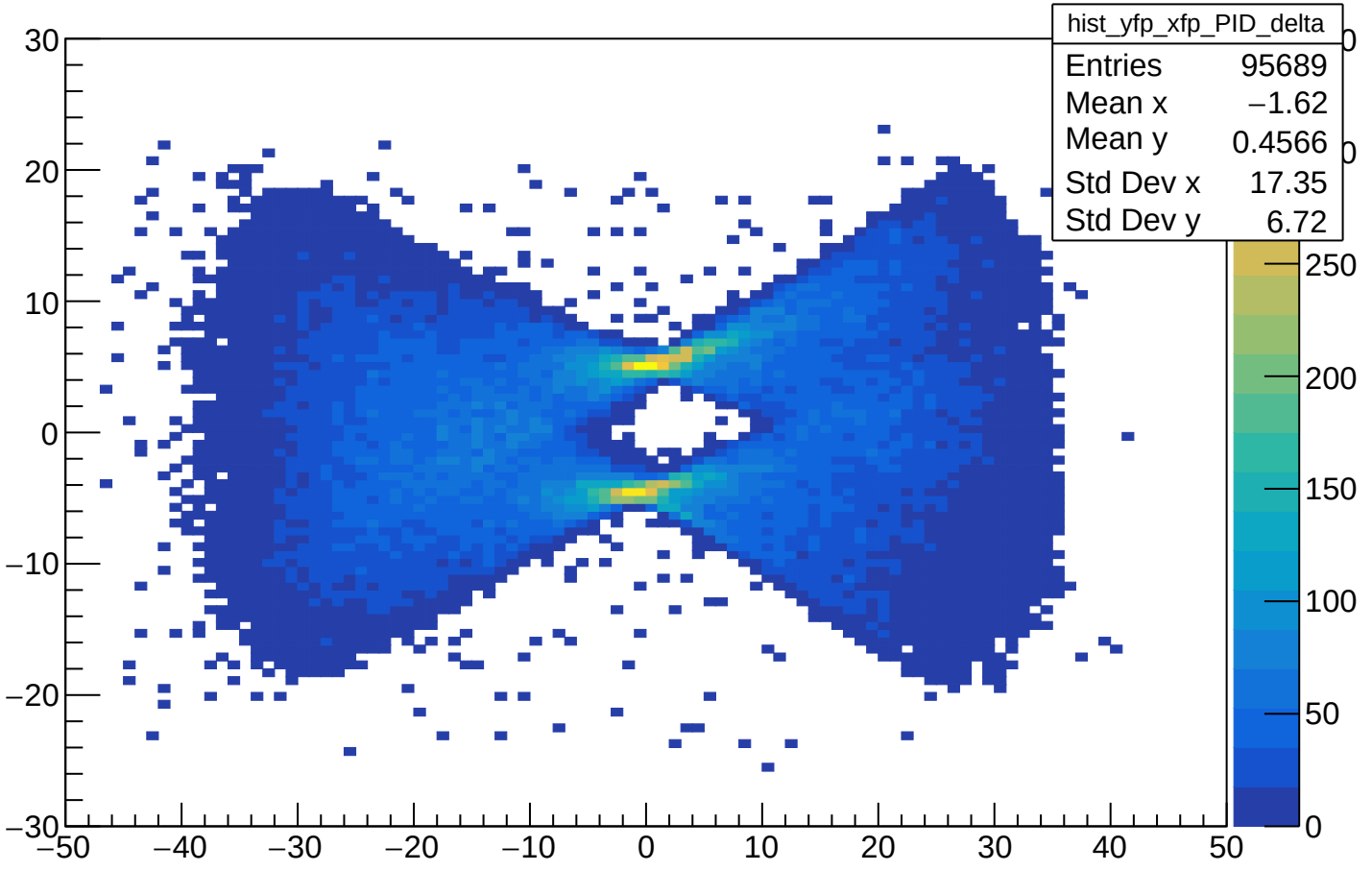

H.gtr.beta vs delta
hist_gtr_beta_delta
Entries 423418
Mean x −1.023
Mean y 1.005
Std Dev x 6.812
Std Dev y 0.04214
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
2000
1500
1000
500
0

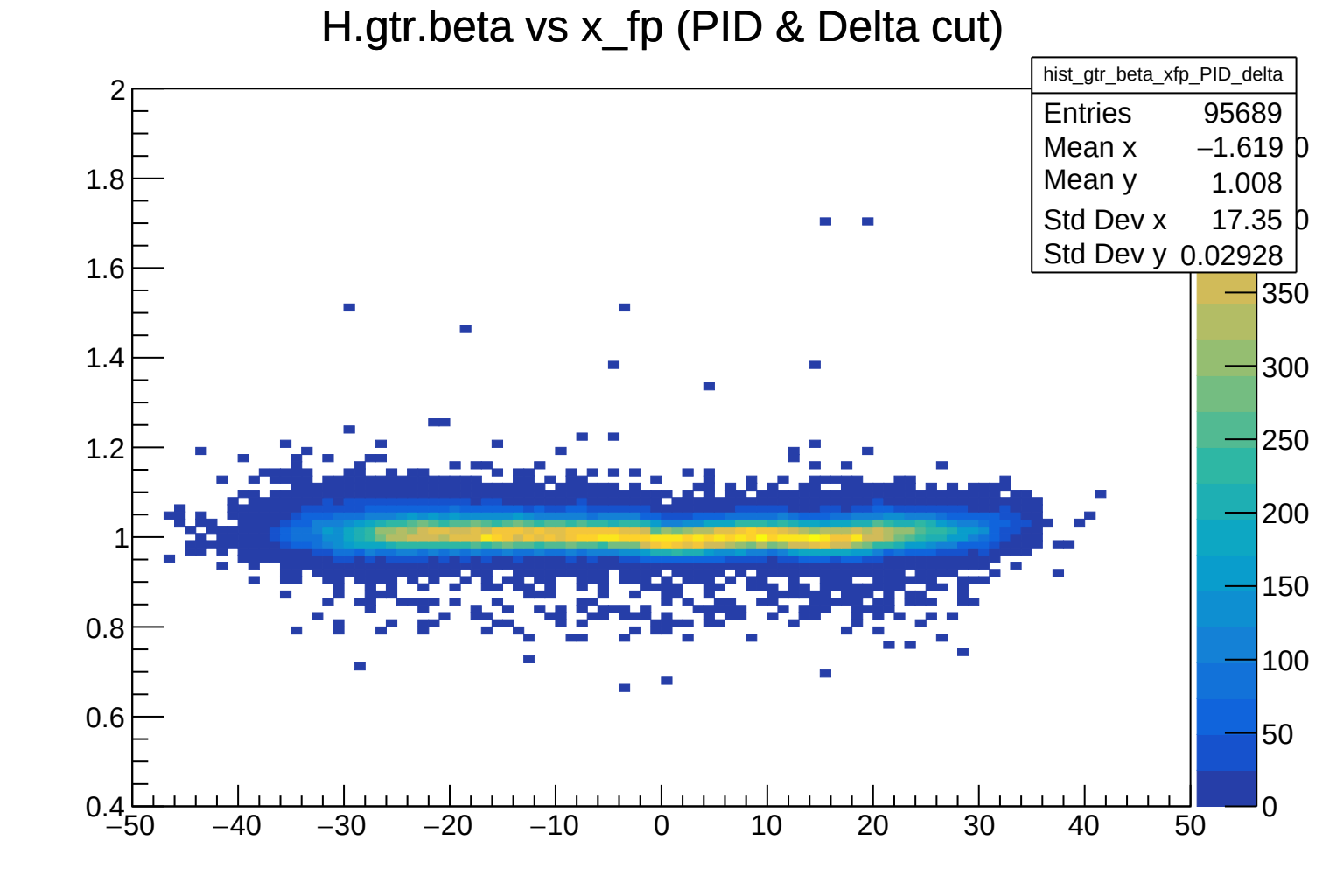

focal plane (PID cut)
hist_yfp_xfp_PID
Entries 140155
Mean x −1.102
Mean y 0.3744
Std Dev x 24.85
Std Dev y 8.215
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
250
200
150
100
50
0

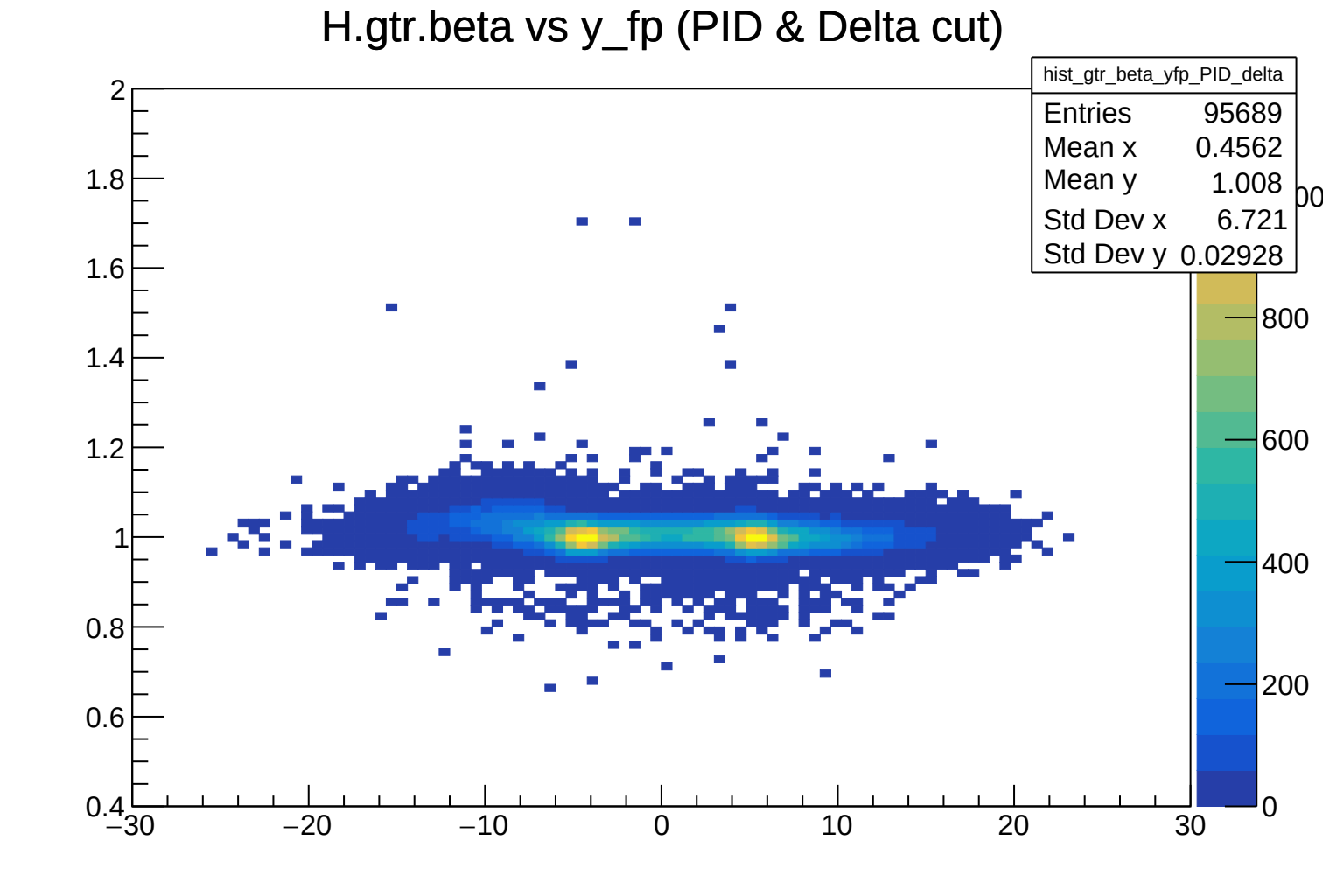

H.gtr.beta vs x_fp (PID cut)
hist_gtr_beta_xfp_PID
Entries 140155
Mean x −1.089
Mean y 1.01
Std Dev x 24.84
Std Dev y 0.03216
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−50
−40
−30
−20
−10
0
10
20
30
40
50
350
300
250
200
150
100
50
0

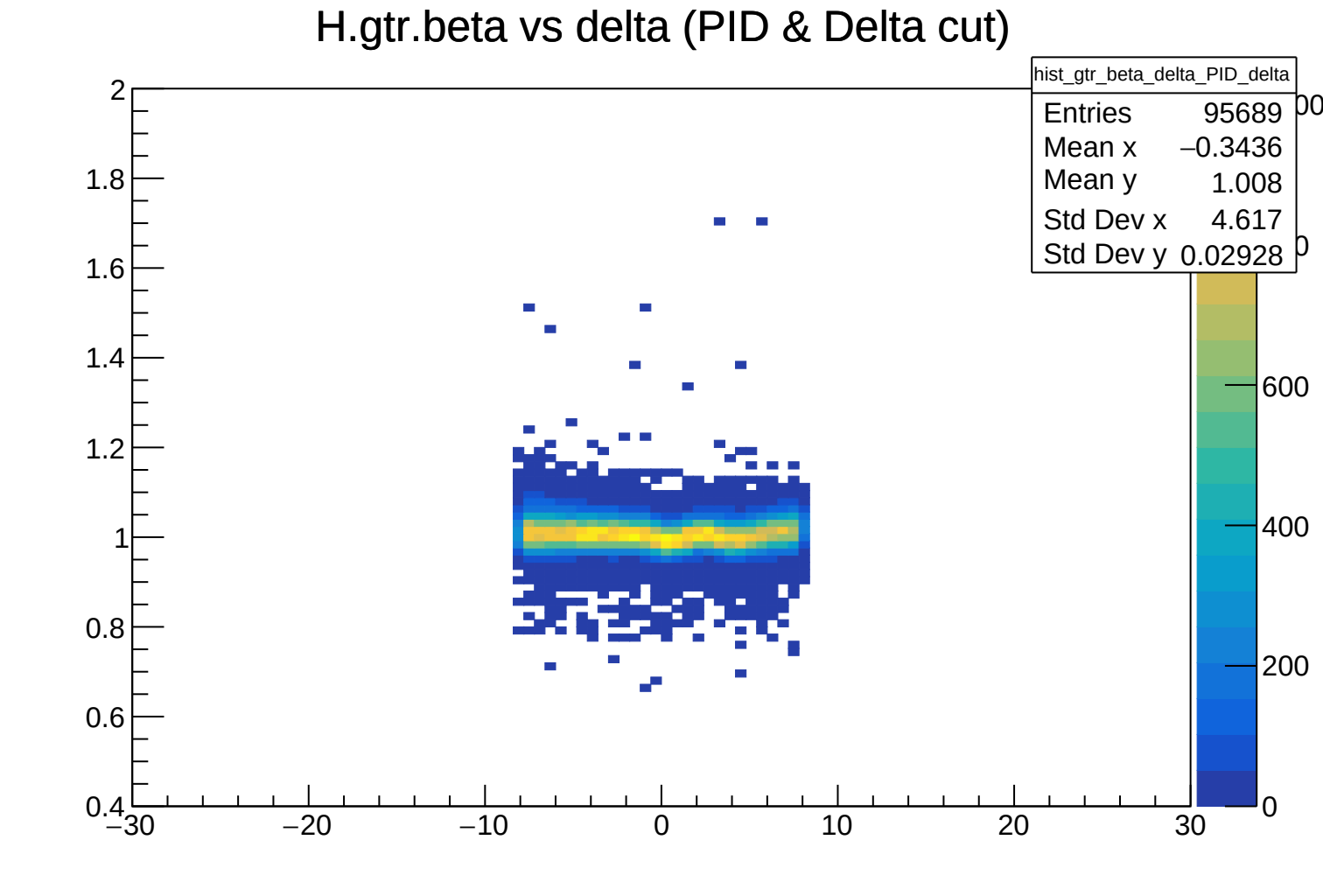

H.gtr.beta vs y_fp (PID cut)
hist_gtr_beta_yfp_PID
Entries 140155
Mean x 0.3761
Mean y 1.01
Std Dev x 8.215
Std Dev y 0.03216
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
800
600
400
200
0


H.gtr.beta vs delta (PID cut)
hist_gtr_beta_delta_PID
Entries 140155
Mean x 0.06789
Mean y 1.01
Std Dev x 6.898
Std Dev y 0.03212
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


focal plane (PID & Delta cut)
hist_yfp_xfp_PID_delta
Entries 95689
Mean x −1.62
Mean y 0.4566
Std Dev x 17.35
Std Dev y 6.72
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 95689
Mean x −1.619
Mean y 1.008
Std Dev x 17.35
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
350
300
250
200
150
100
50
0


H.gtr.beta vs y_fp (PID & Delta cut)
hist_gtr_beta_yfp_PID_delta
Entries 95689
Mean x 0.4562
Mean y 1.008
Std Dev x 6.721
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
800
600
400
200
0


H.gtr.beta vs delta (PID & Delta cut)
hist_gtr_beta_delta_PID_delta
Entries 95689
Mean x −0.3436
Mean y 1.008
Std Dev x 4.617
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
600
400
200
0