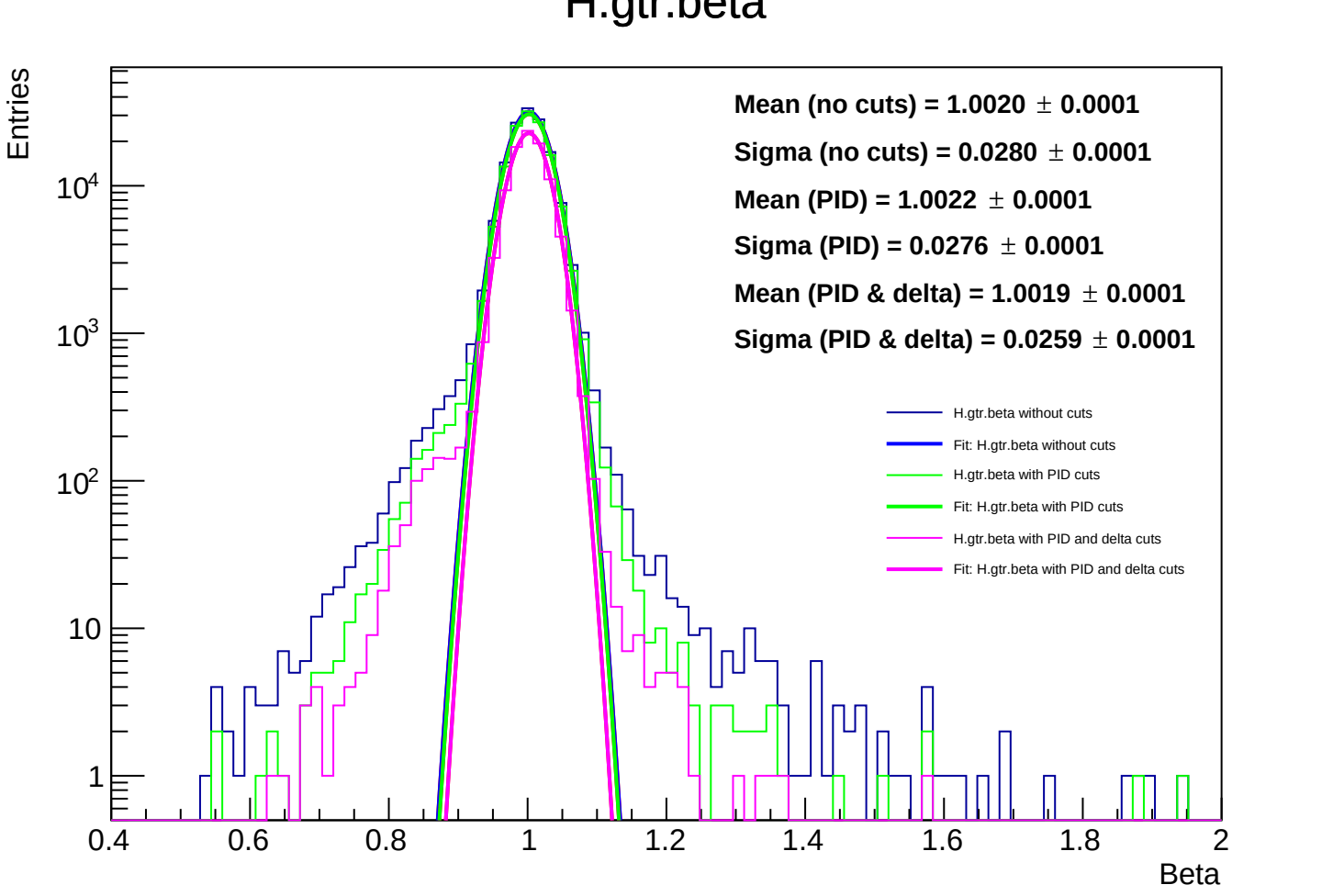
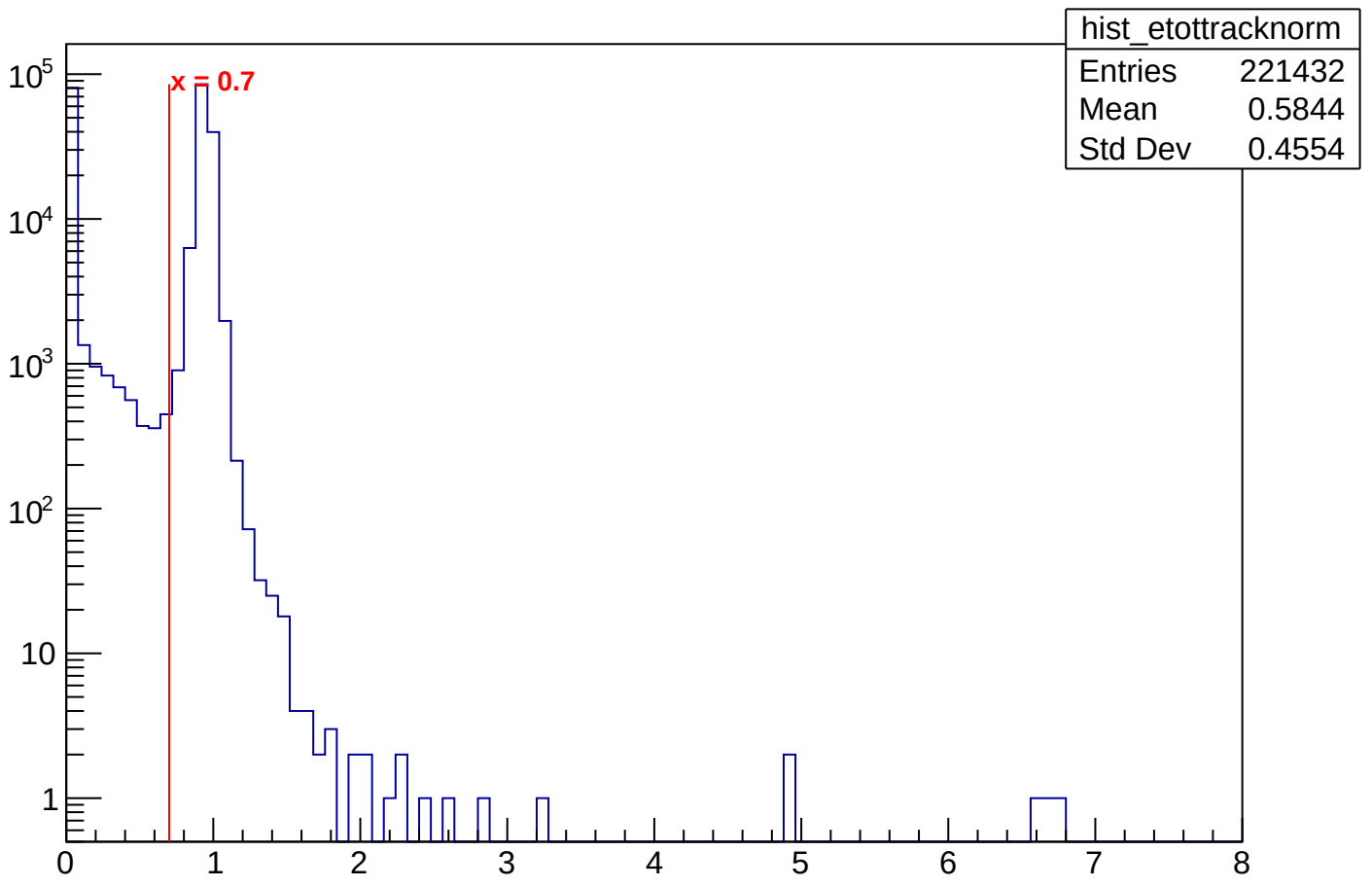
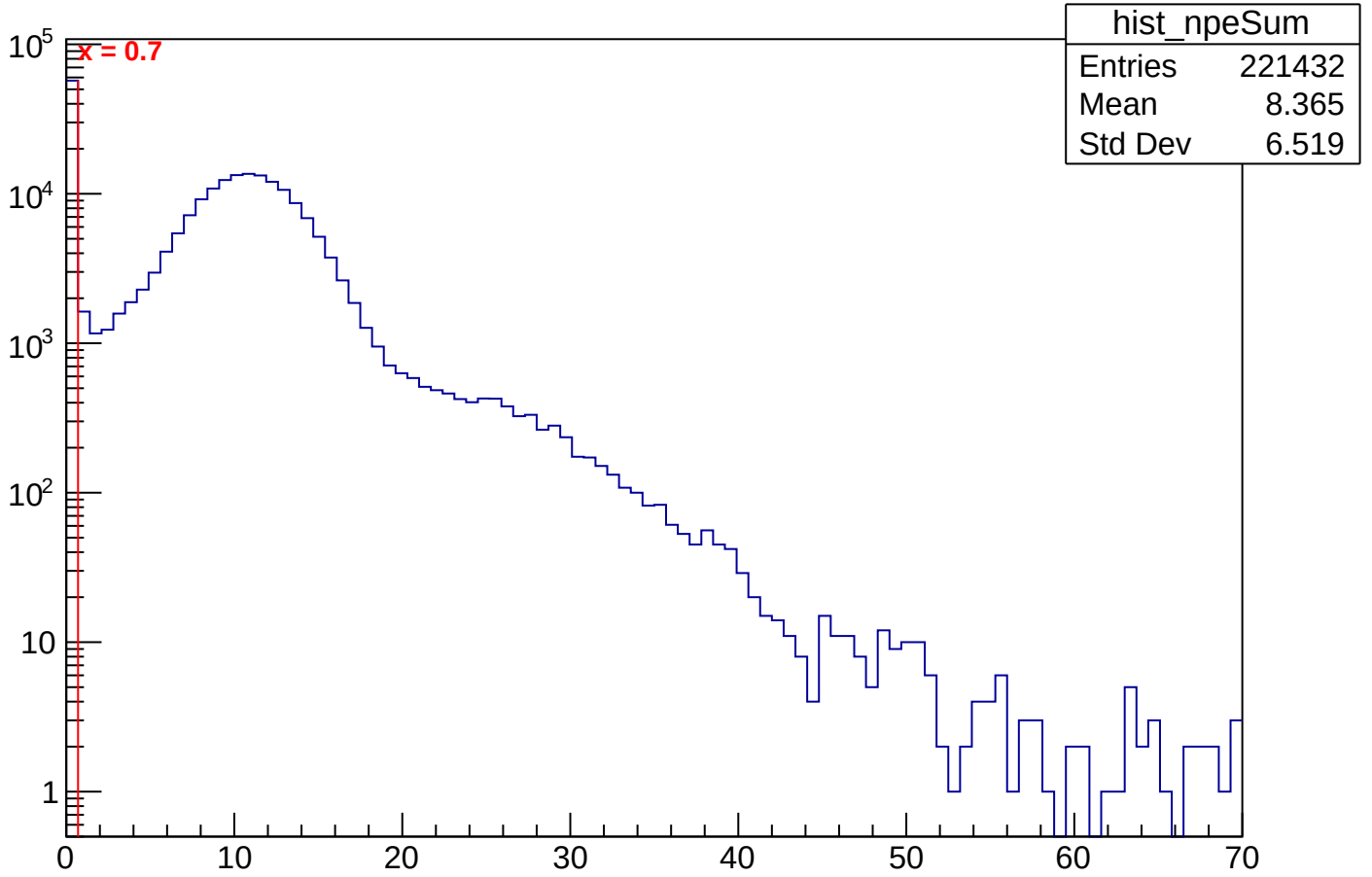
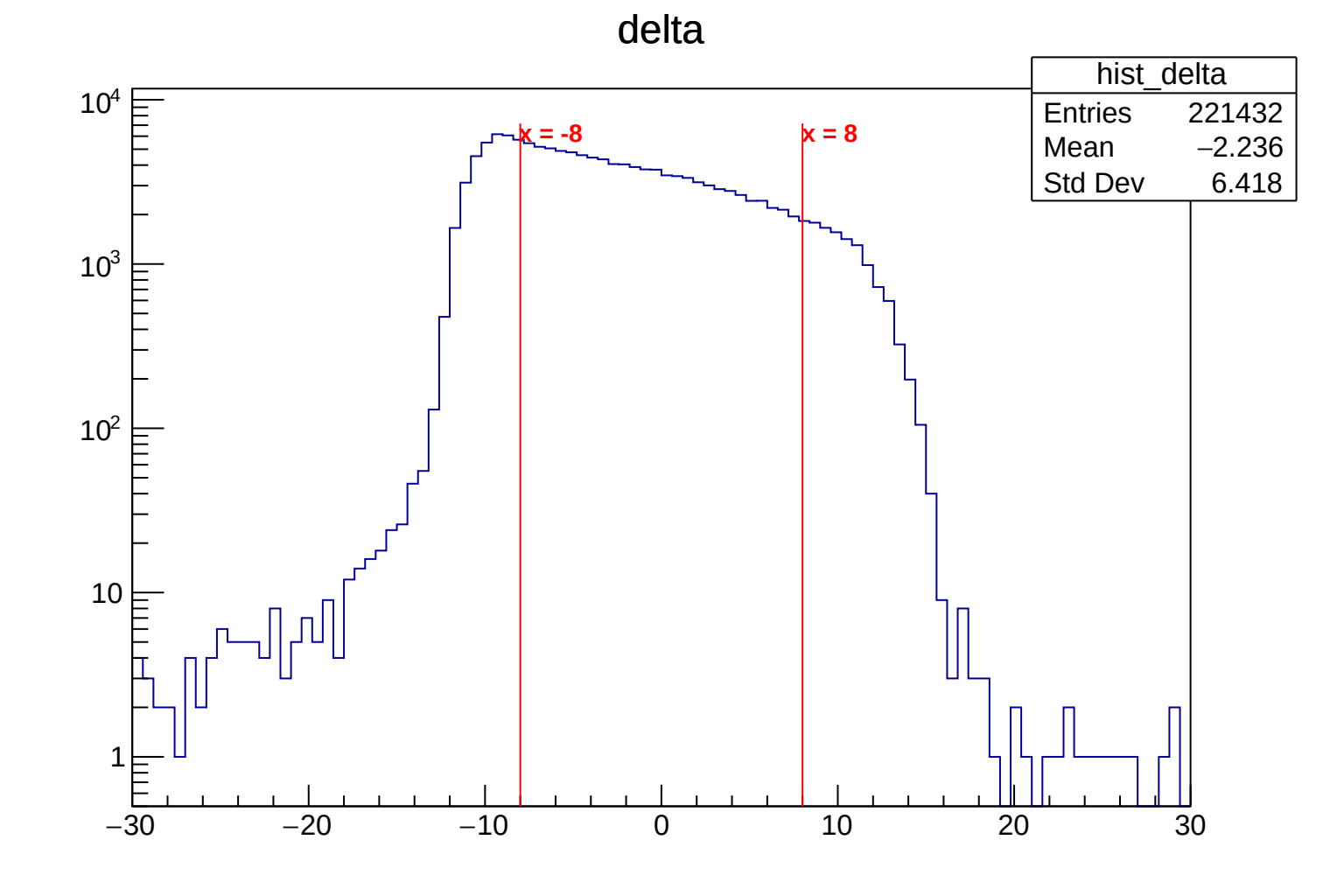
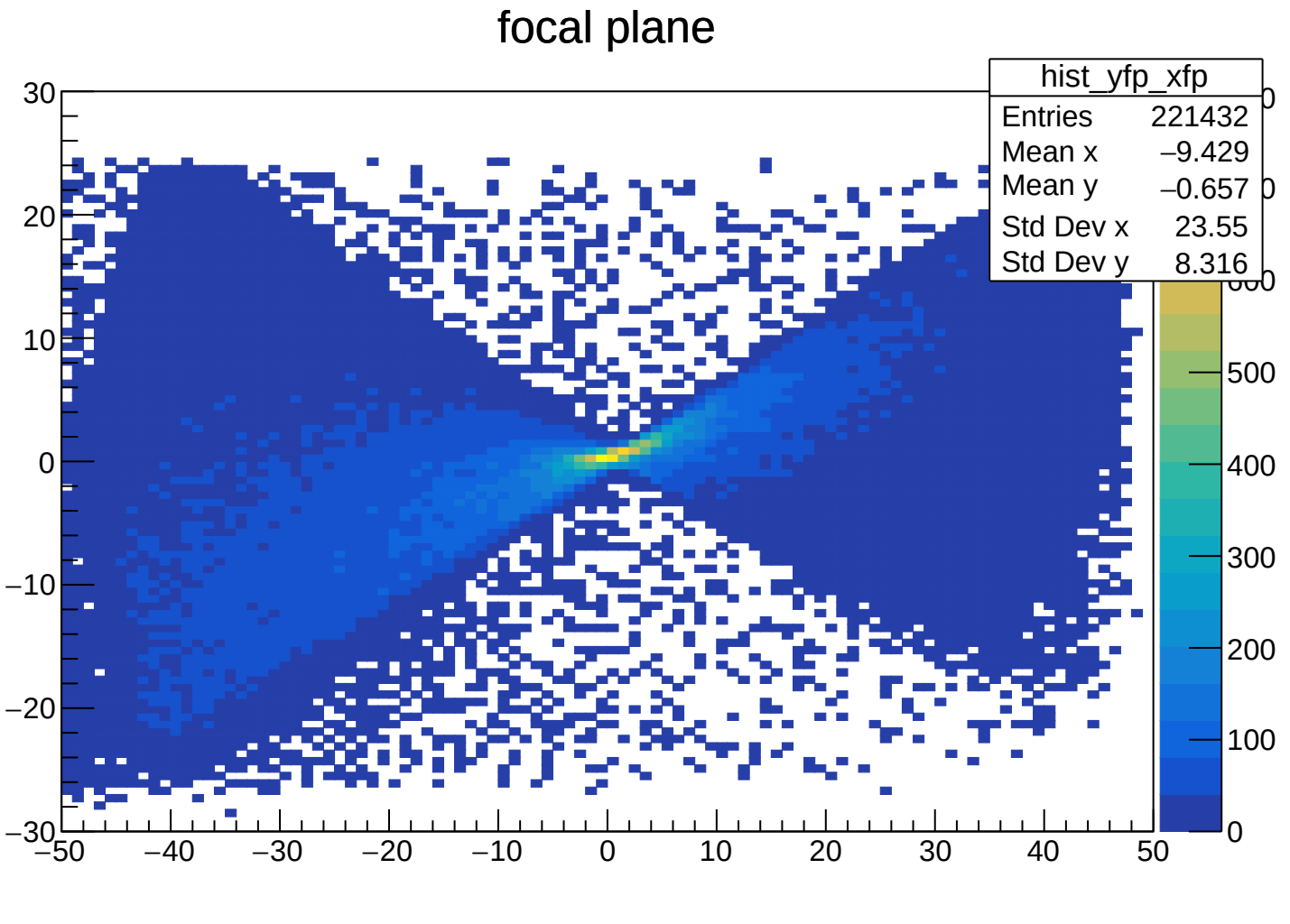
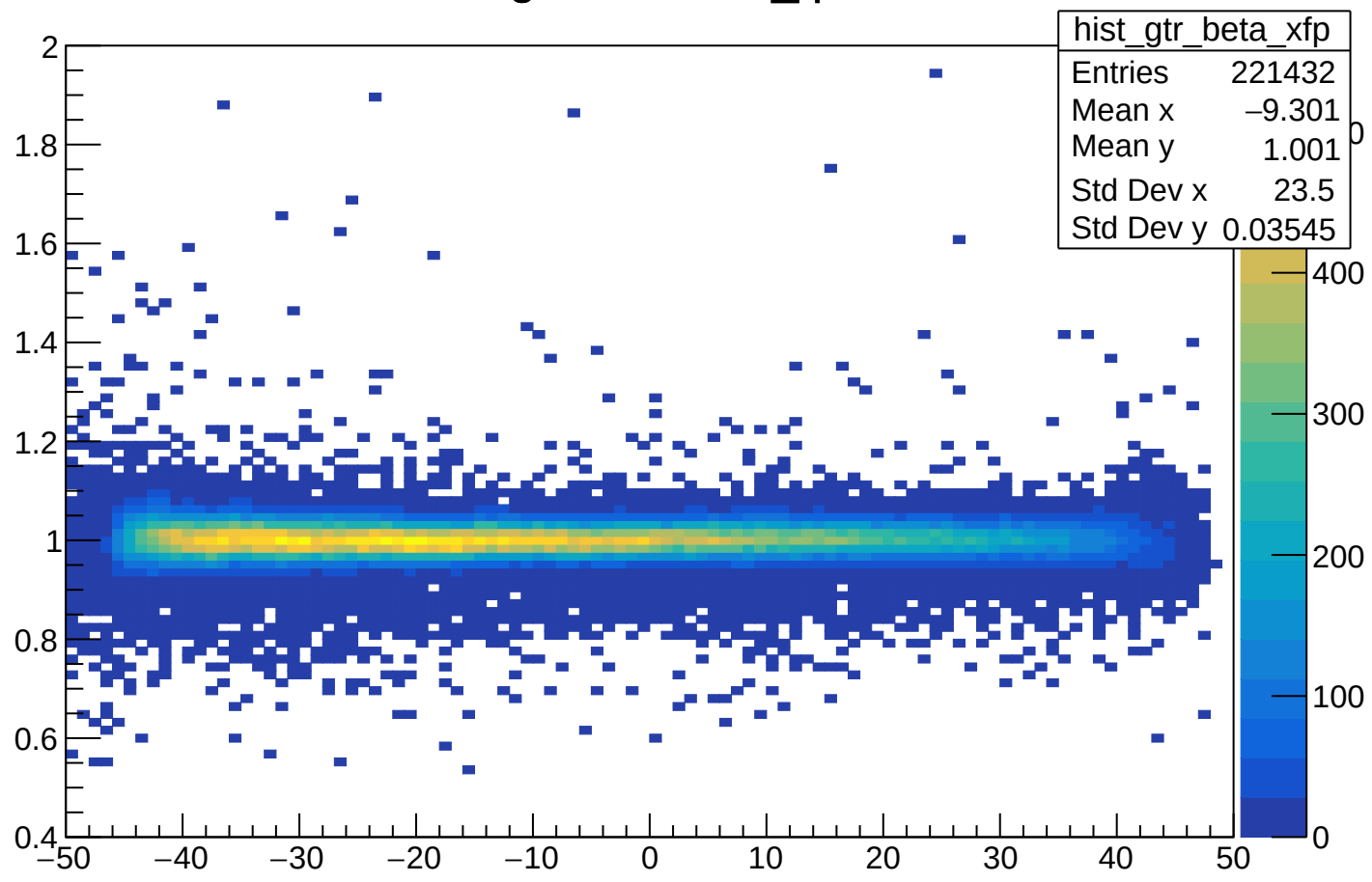

H.gtr.beta
Entries
Beta
Mean (no cuts) = 1.0020 ± 0.0001
Sigma (no cuts) = 0.0280 ± 0.0001
Mean (PID) = 1.0022 ± 0.0001
Sigma (PID) = 0.0276 ± 0.0001
Mean (PID & delta) = 1.0019 ± 0.0001
Sigma (PID & delta) = 0.0259 ± 0.0001
H.gtr.beta without cuts
Fit: H.gtr.beta without cuts
H.gtr.beta with PID cuts
Fit: H.gtr.beta with PID cuts
H.gtr.beta with PID and delta cuts
Fit: H.gtr.beta with PID and delta cuts

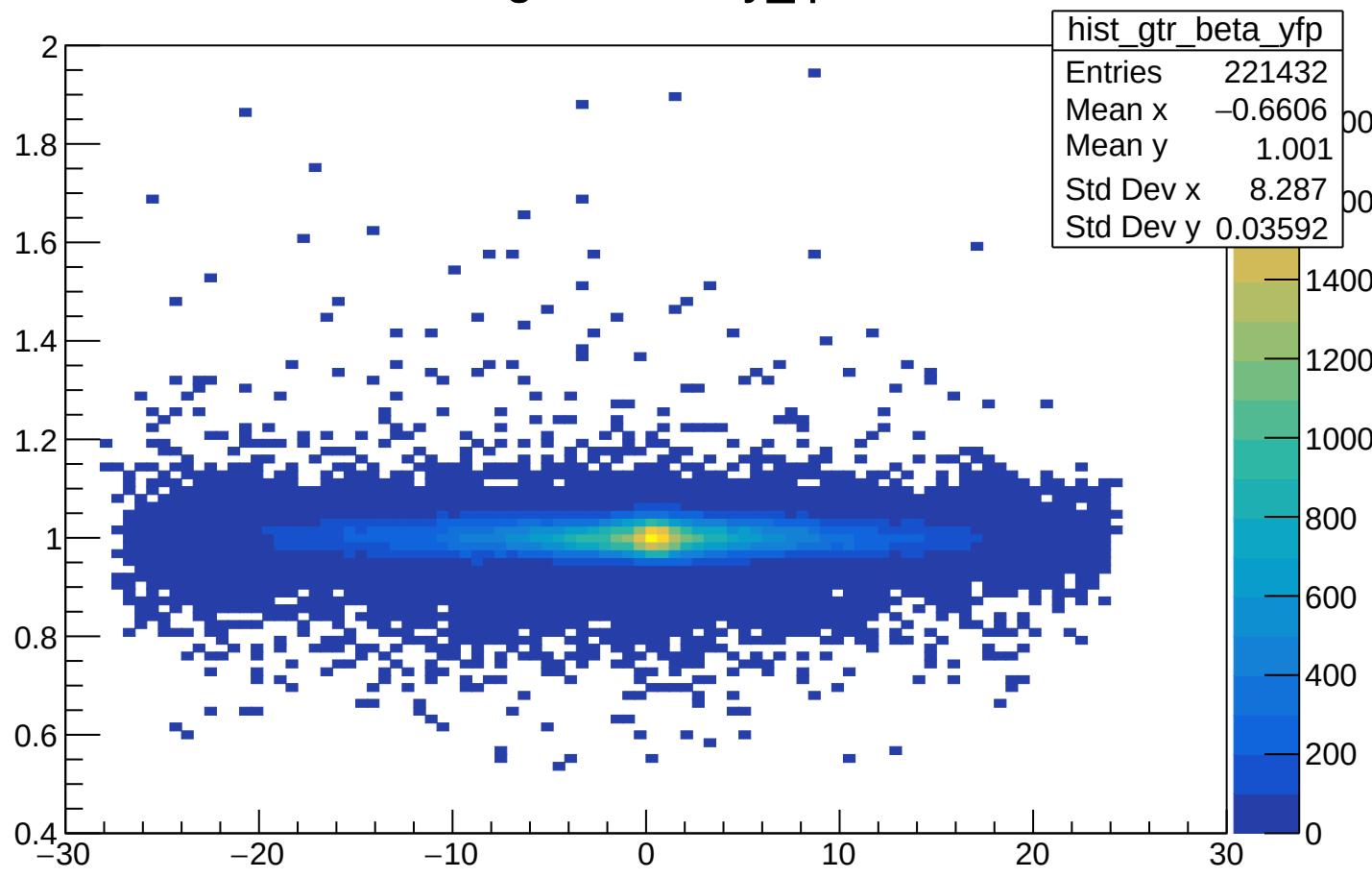

etottracknorm
hist_etottracknorm
Entries 221432
Mean 0.5844
Std Dev 0.4554
x = 0.7
10^5
10^4
10^3
10^2
10
1
0
1
2
3
4
5
6
7
8

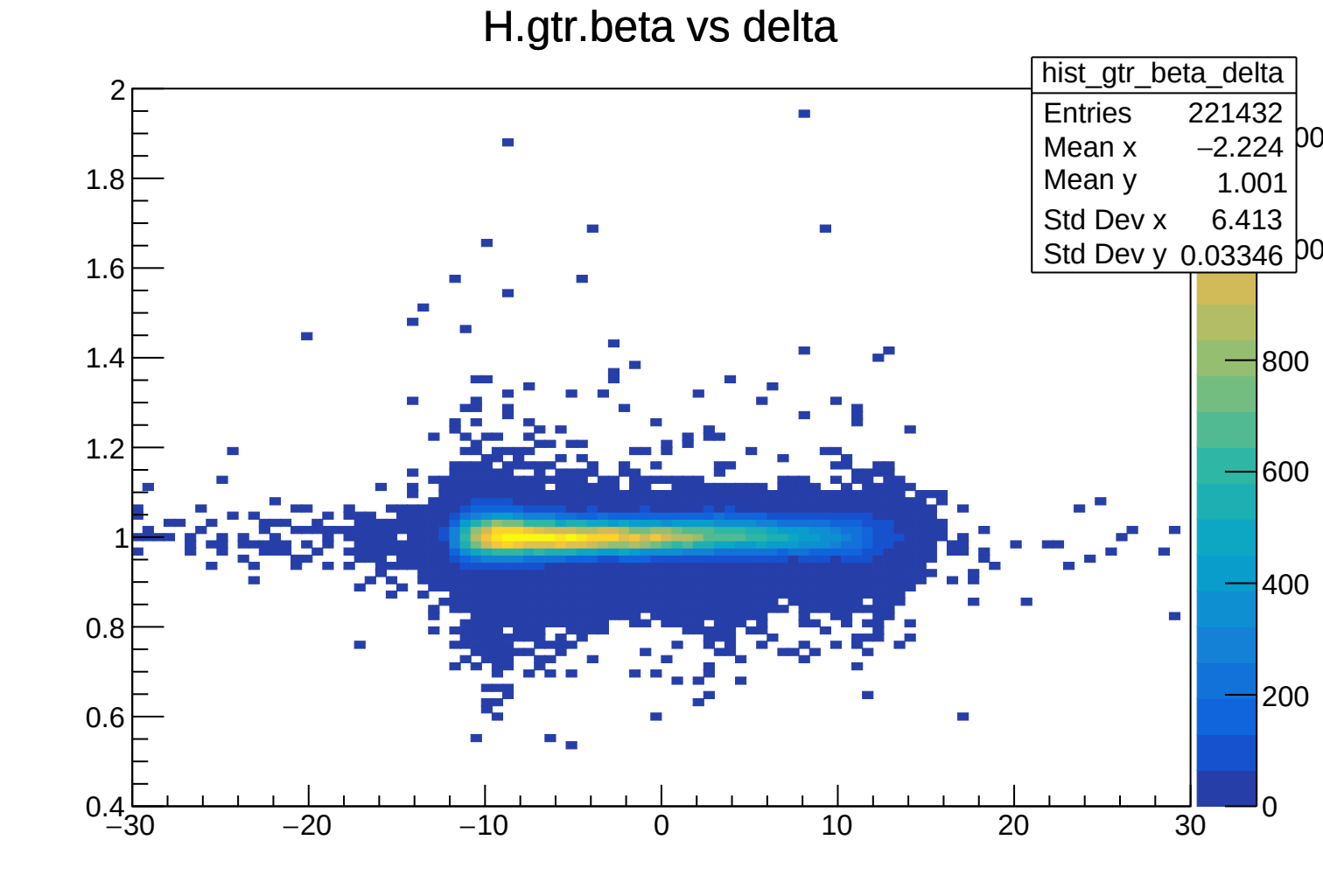

npeSum
hist_npeSum
Entries 221432
Mean 8.365
Std Dev 6.519
x = 0.7
10^5
10^4
10^3
10^2
10
1
0
10
20
30
40
50
60
70

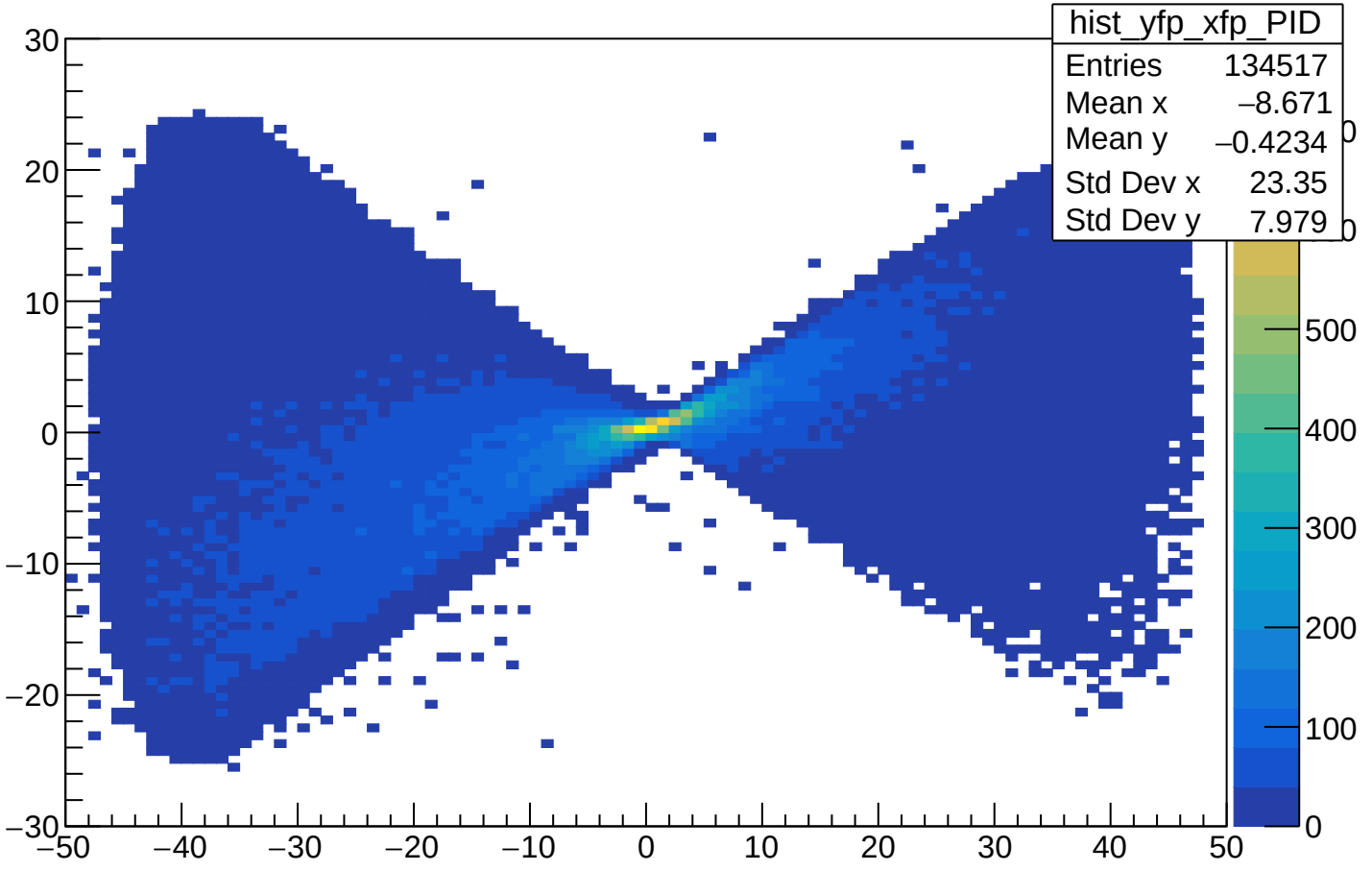

delta
hist_delta
Entries 221432
Mean −2.236
Std Dev 6.418
x = -8
x = 8
10^4
10^3
10^2
10
1
−30
−20
−10
0
10
20
30

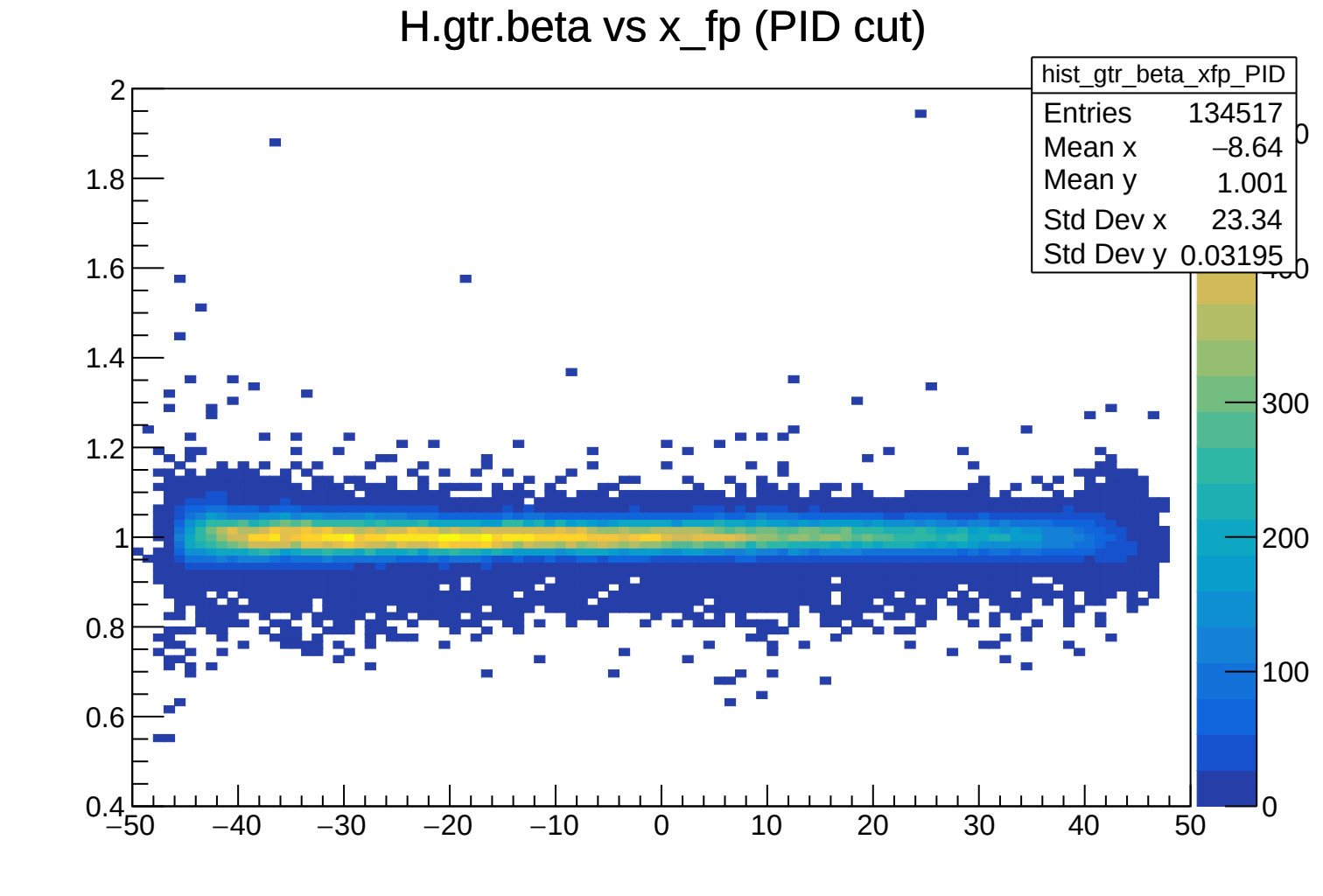

focal plane
hist_yfp_xfp
Entries 221432
Mean x −9.429
Mean y −0.657
Std Dev x 23.55
Std Dev y 8.316
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
500
400
300
200
100
0

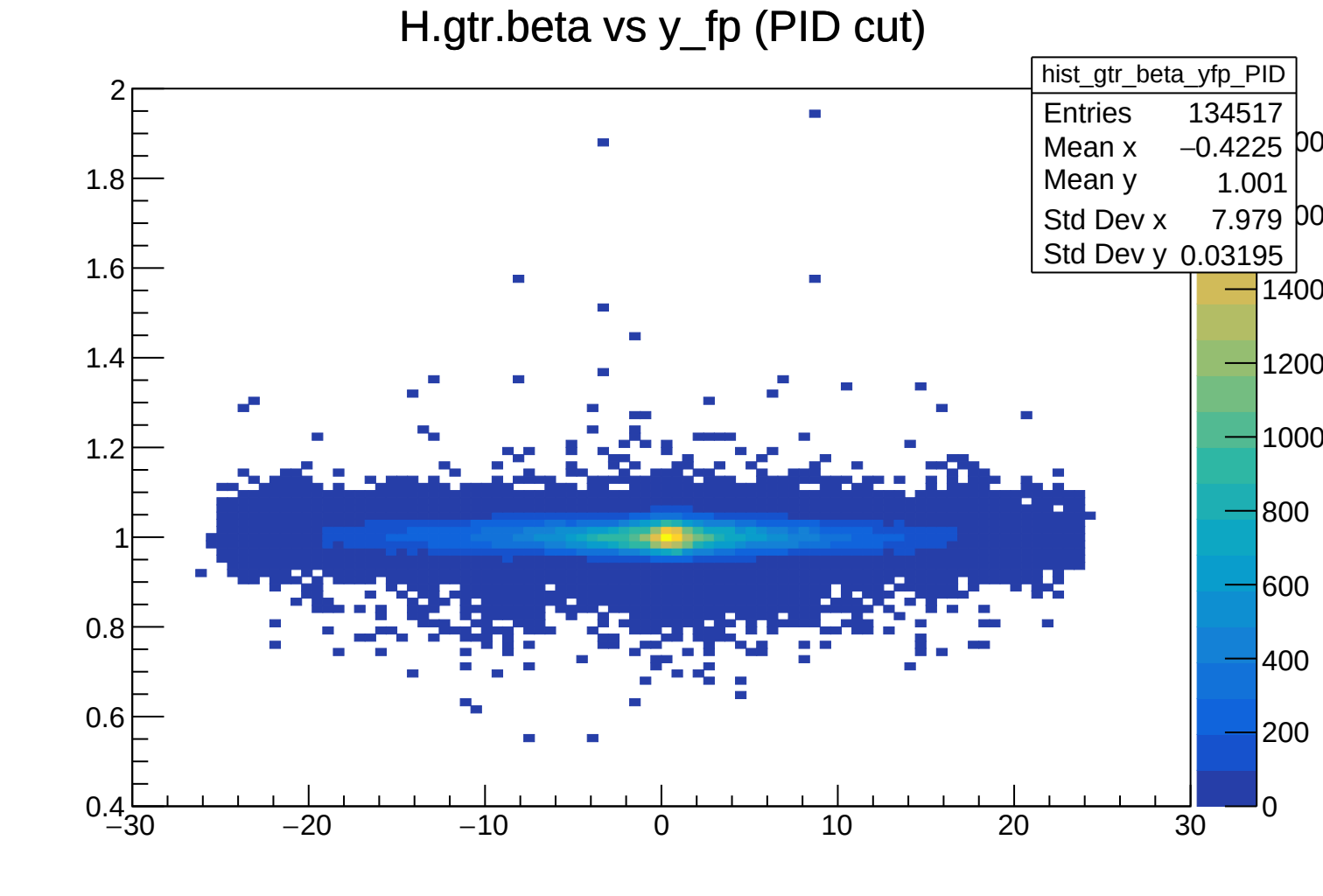

H.gtr.beta vs x_fp
hist_gtr_beta_xfp
Entries 221432
Mean x −9.301
Mean y 1.001
Std Dev x 23.5
Std Dev y 0.03545
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−50
−40
−30
−20
−10
0
10
20
30
40
50
400
300
200
100
0

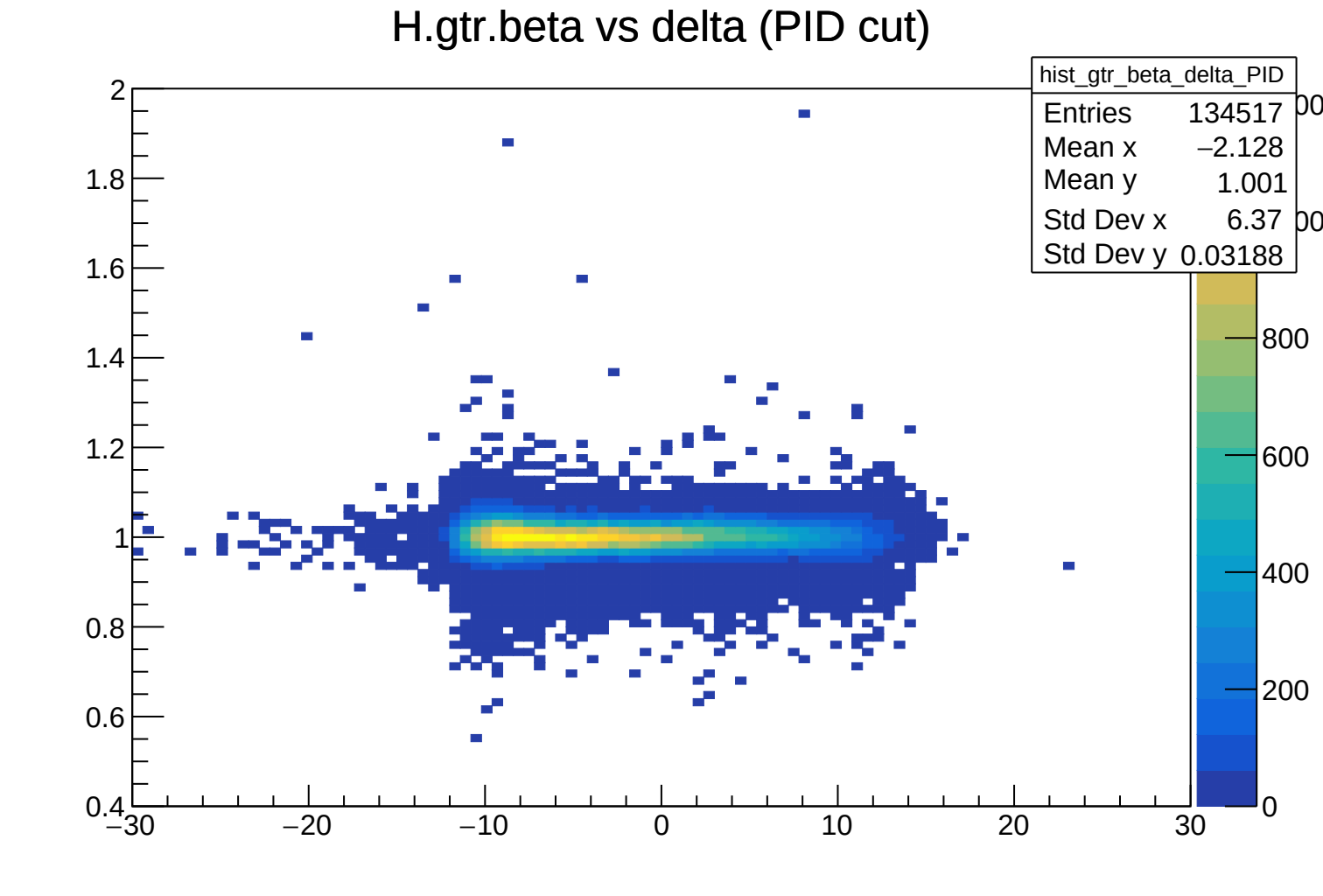

H.gtr.beta vs y_fp
hist_gtr_beta_yfp
Entries 221432
Mean x −0.6606
Mean y 1.001
Std Dev x 8.287
Std Dev y 0.03592
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
1400
1200
1000
800
600
400
200
0

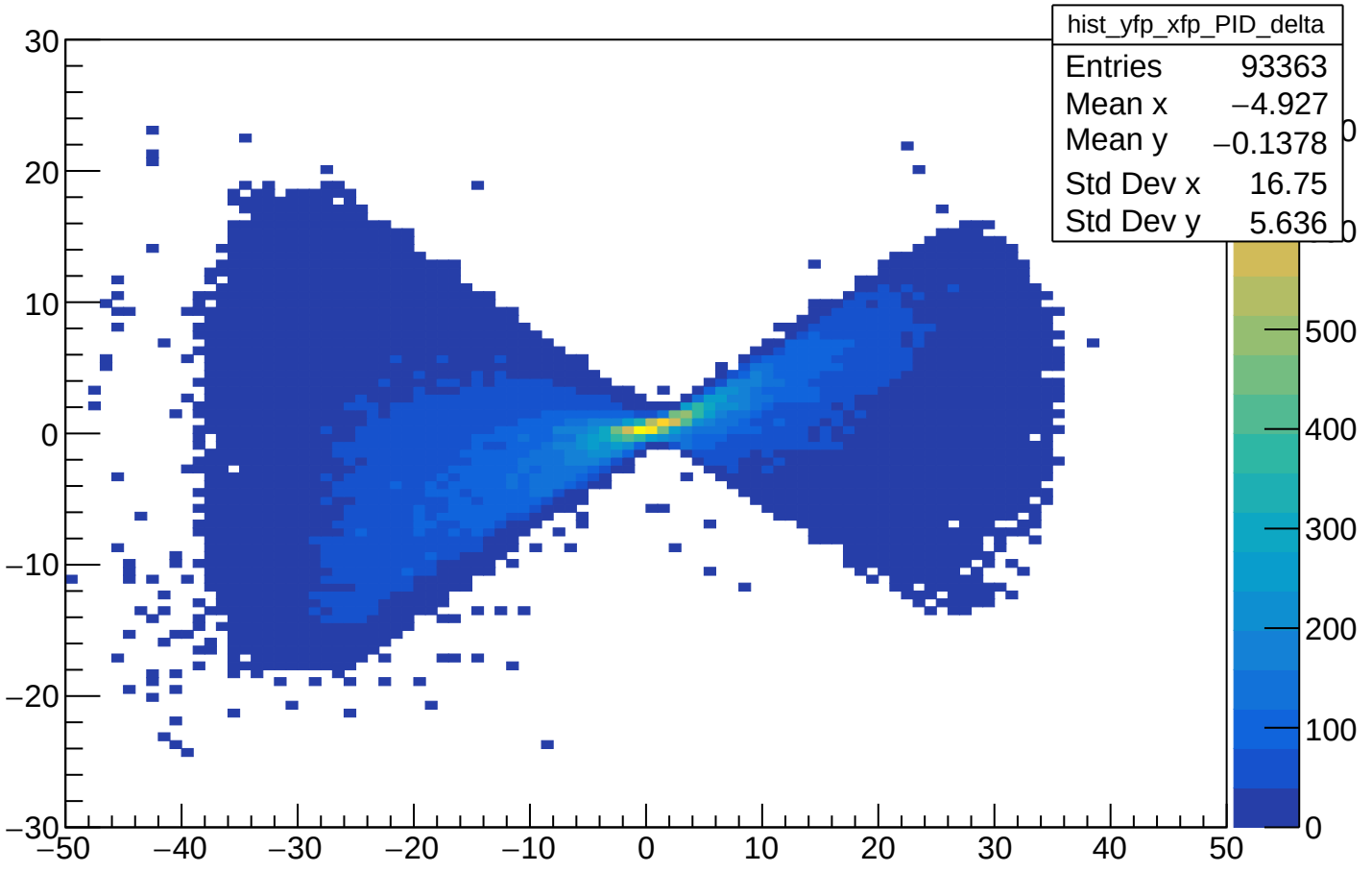

H.gtr.beta vs delta
hist_gtr_beta_delta
Entries 221432
Mean x −2.224
Mean y 1.001
Std Dev x 6.413
Std Dev y 0.03346
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
800
600
400
200
0

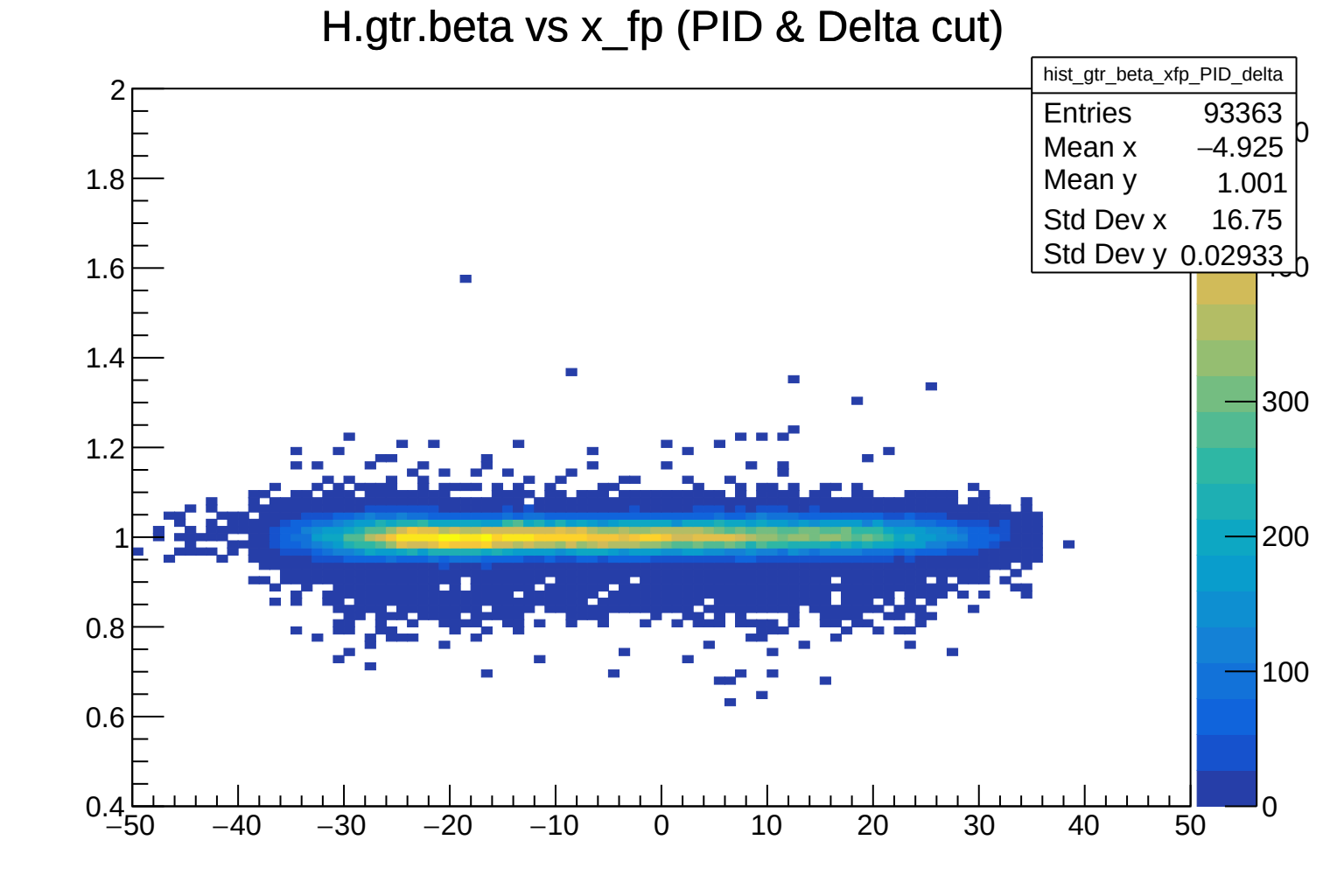

focal plane (PID cut)
hist_yfp_xfp_PID
Entries 134517
Mean x −8.671
Mean y −0.4234
Std Dev x 23.35
Std Dev y 7.979
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
500
400
300
200
100
0

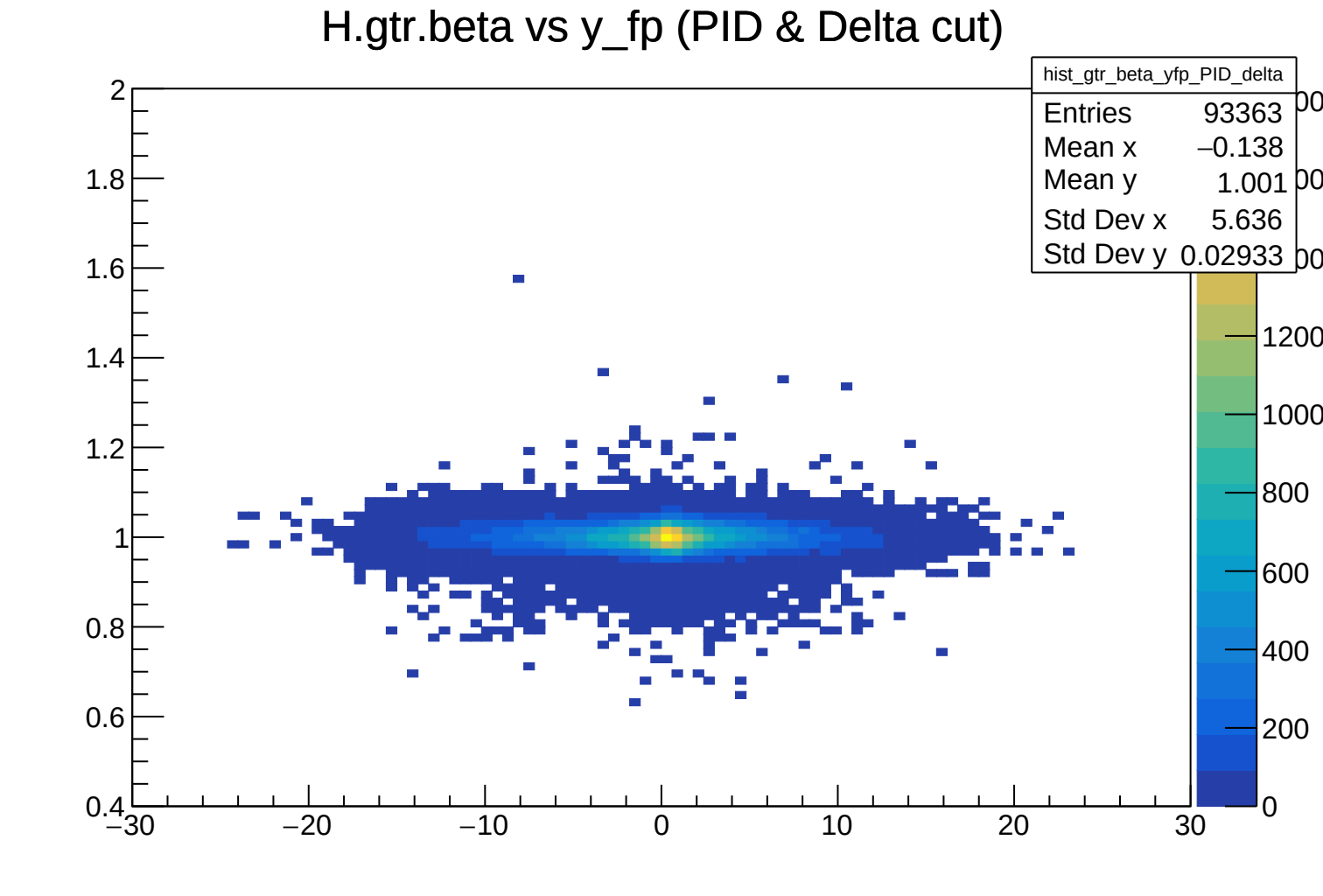

H.gtr.beta vs x_fp (PID cut)
hist_gtr_beta_xfp_PID
Entries 134517
Mean x −8.64
Mean y 1.001
Std Dev x 23.34
Std Dev y 0.03195
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−50
−40
−30
−20
−10
0
10
20
30
40
50
300
200
100
0

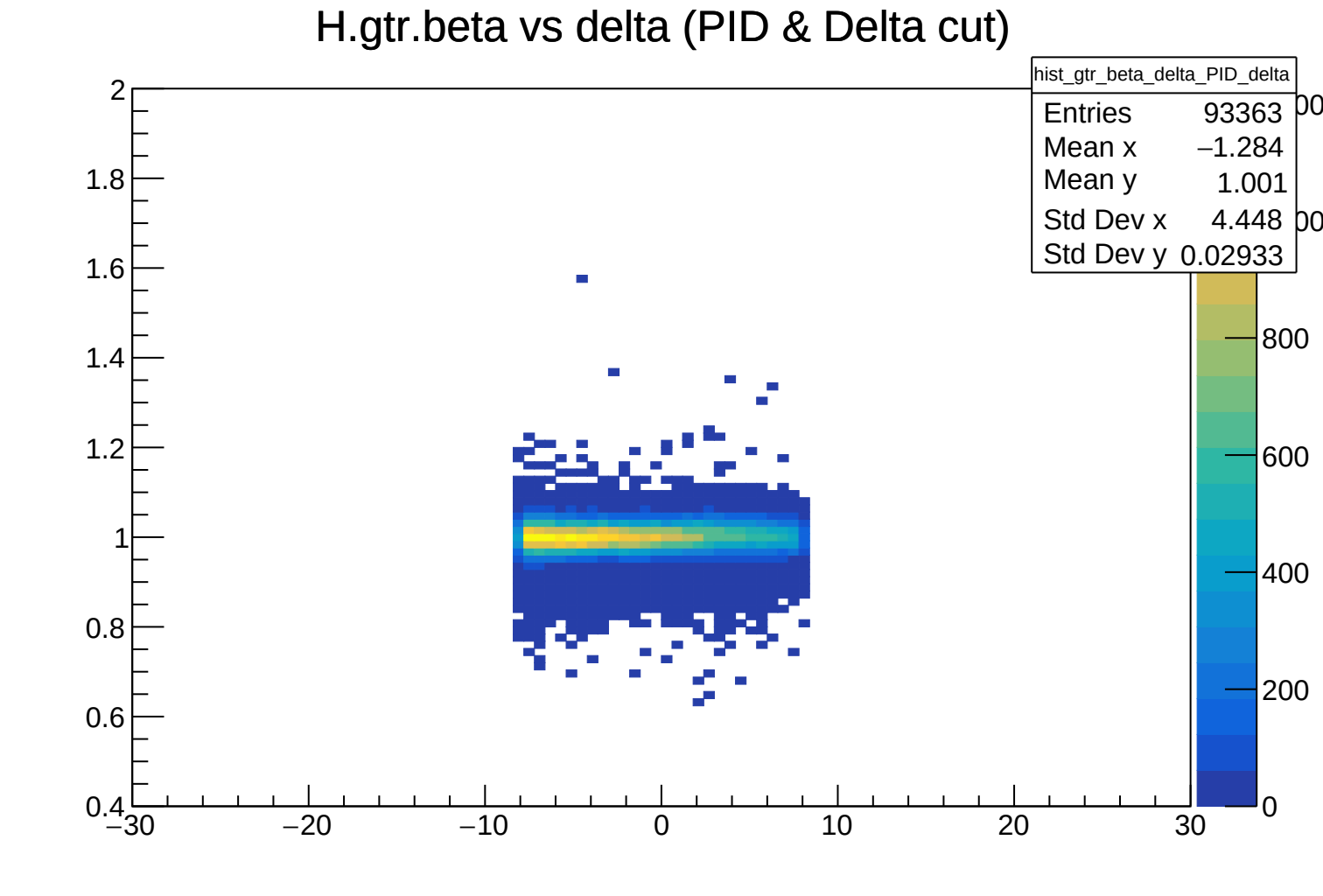

H.gtr.beta vs y_fp (PID cut)
hist_gtr_beta_yfp_PID
Entries 134517
Mean x −0.4225
Mean y 1.001
Std Dev x 7.979
Std Dev y 0.03195
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
1400
1200
1000
800
600
400
200
0


H.gtr.beta vs delta (PID cut)
hist_gtr_beta_delta_PID
Entries 134517
Mean x −2.128
Mean y 1.001
Std Dev x 6.37
Std Dev y 0.03188
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 & Delta cut)
hist_yfp_xfp_PID_delta
Entries 93363
Mean x −4.927
Mean y −0.1378
Std Dev x 16.75
Std Dev y 5.636
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
500
400
300
200
100
0


H.gtr.beta vs x_fp (PID & Delta cut)
hist_gtr_beta_xfp_PID_delta
Entries 93363
Mean x –4.925
Mean y 1.001
Std Dev x 16.75
Std Dev y 0.02933
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
200
100
0


H.gtr.beta vs y_fp (PID & Delta cut)
hist_gtr_beta_yfp_PID_delta
Entries 93363
Mean x −0.138
Mean y 1.001
Std Dev x 5.636
Std Dev y 0.02933
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


H.gtr.beta vs delta (PID & Delta cut)
hist_gtr_beta_delta_PID_delta
Entries 93363
Mean x −1.284
Mean y 1.001
Std Dev x 4.448
Std Dev y 0.02933
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