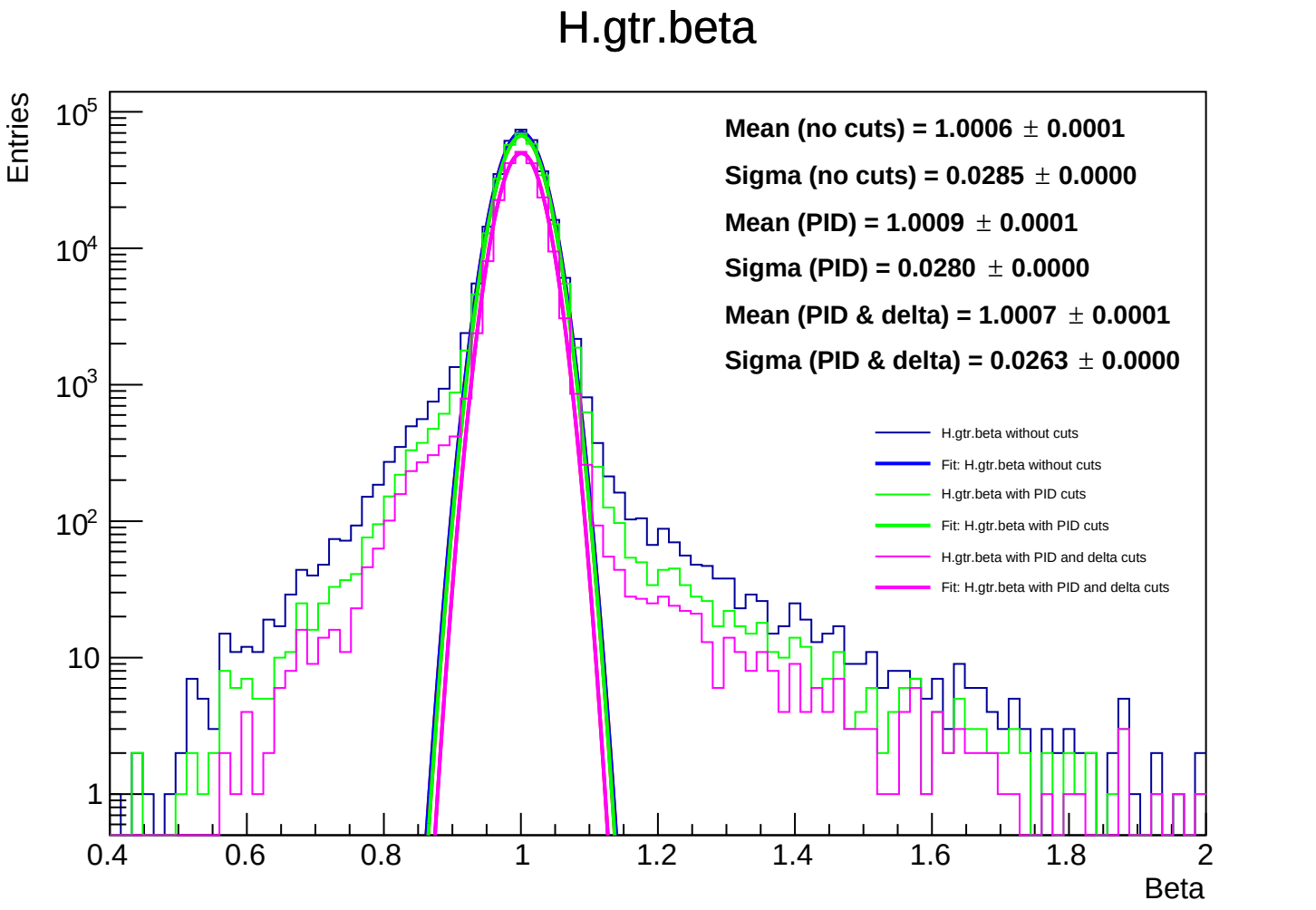
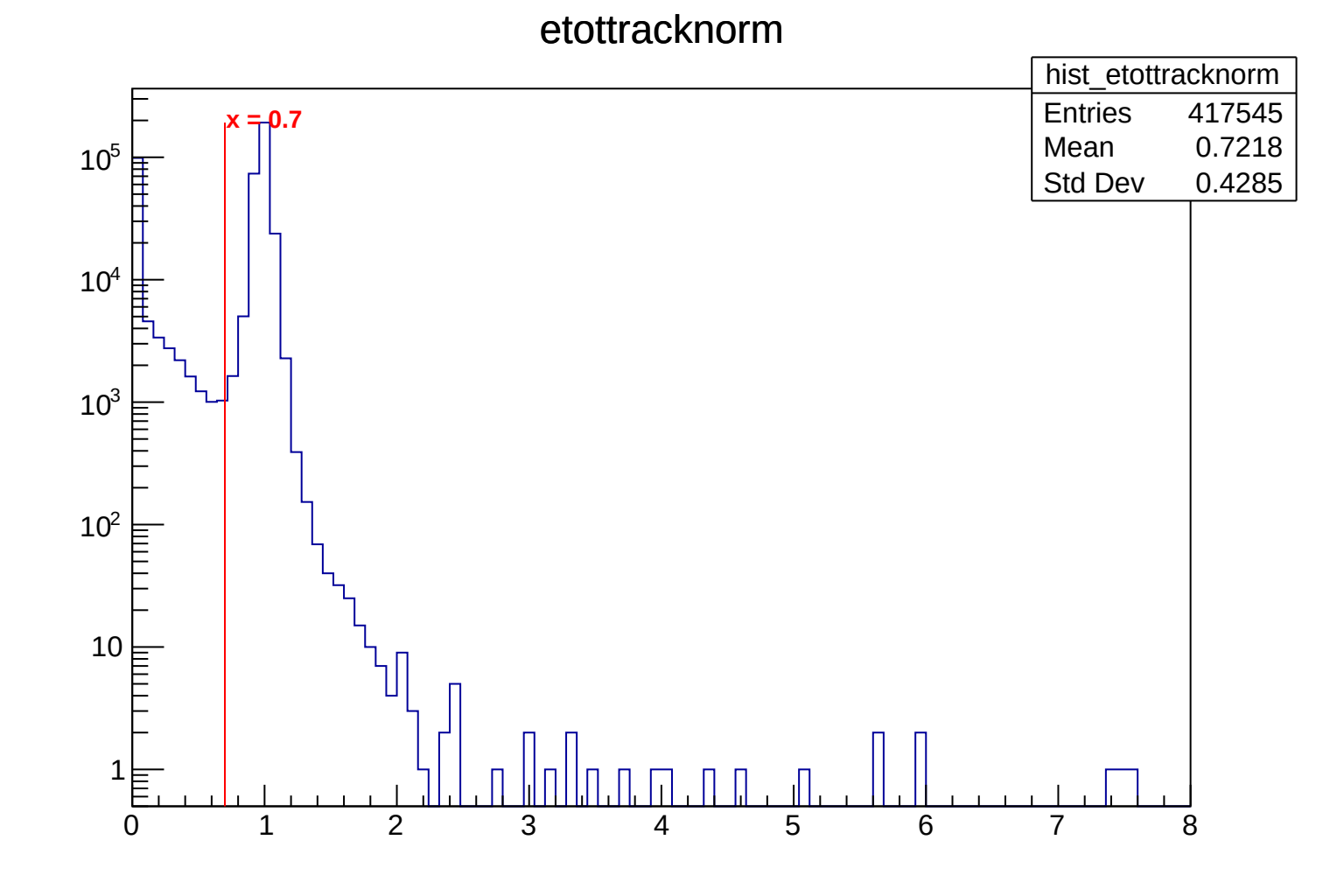
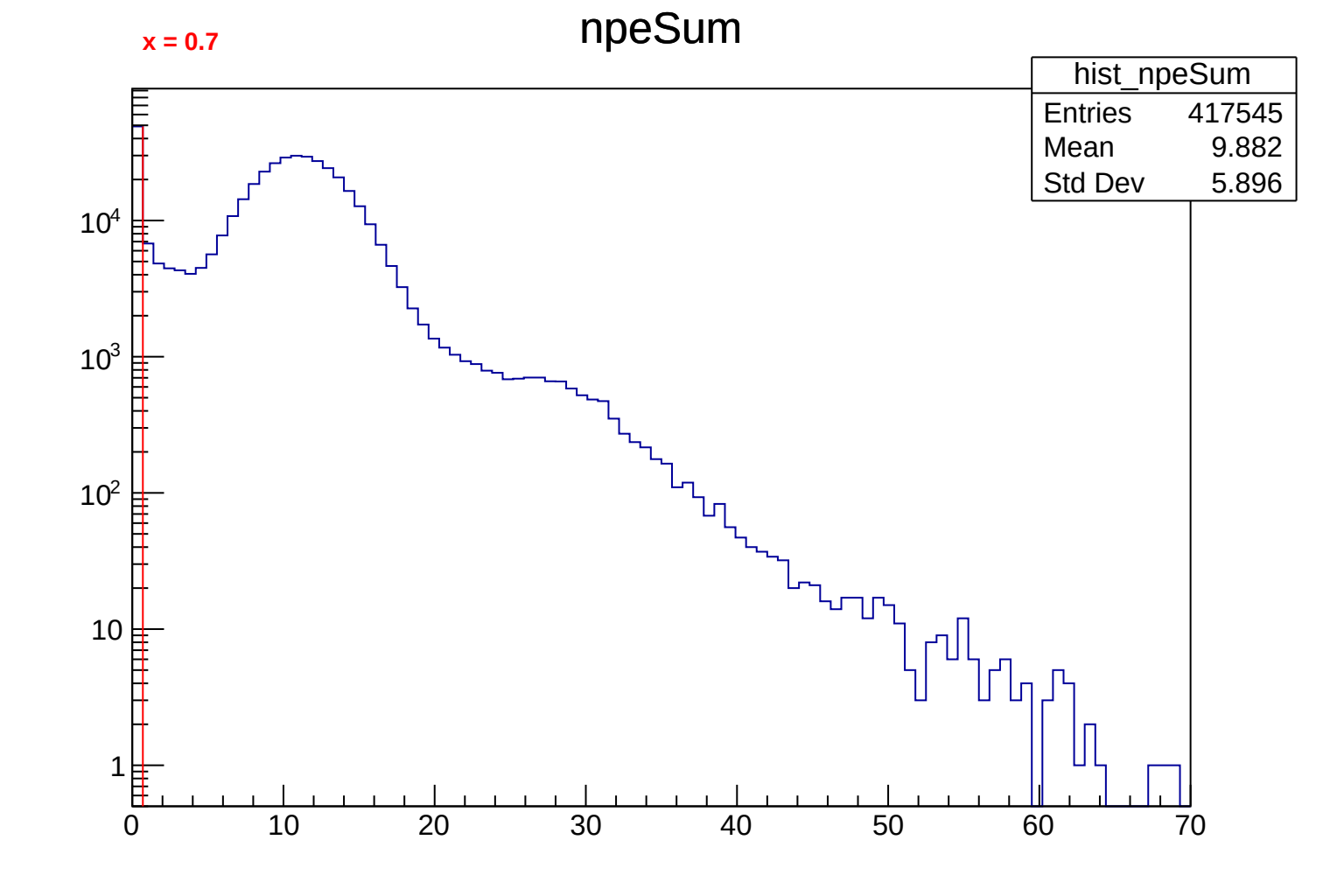
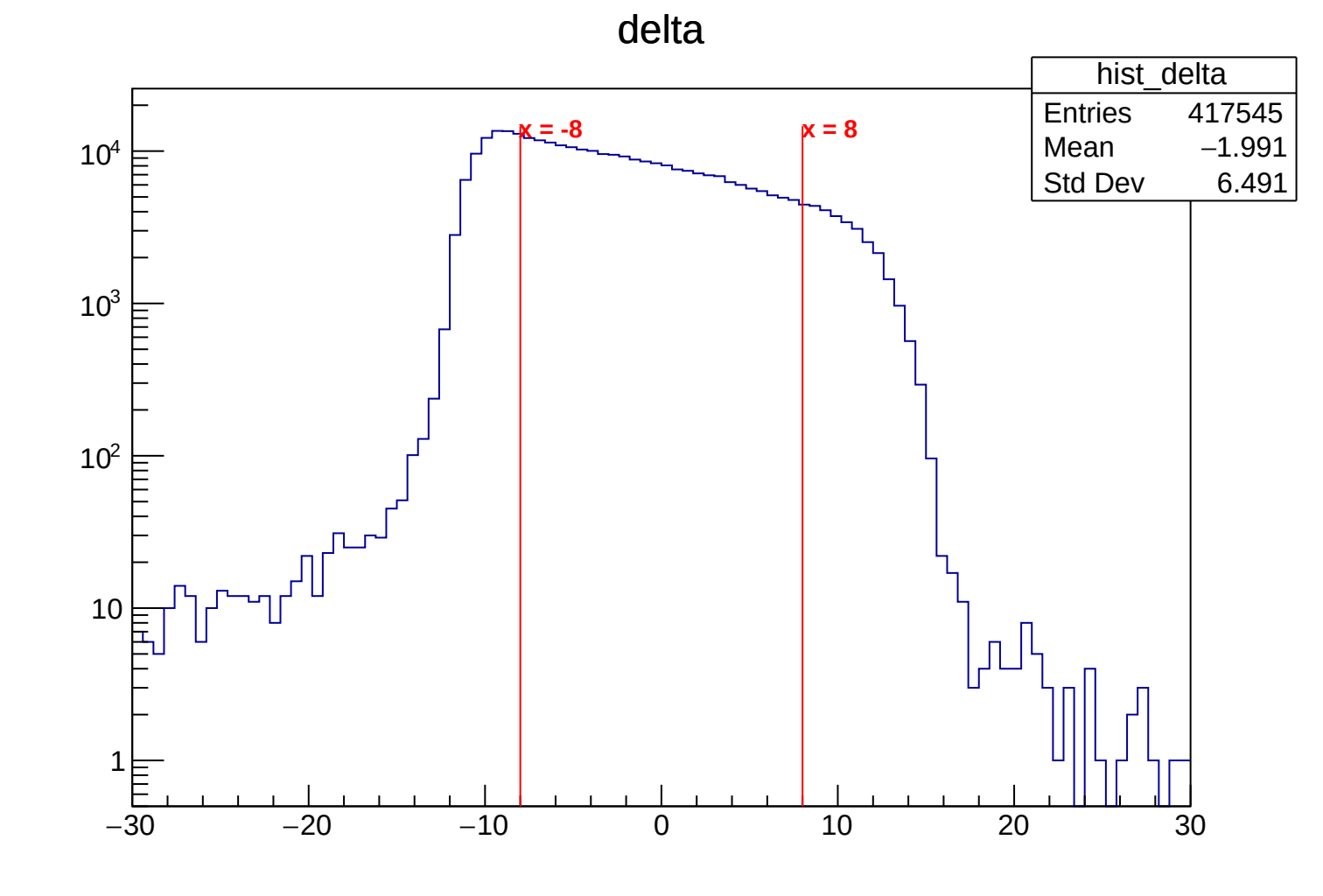
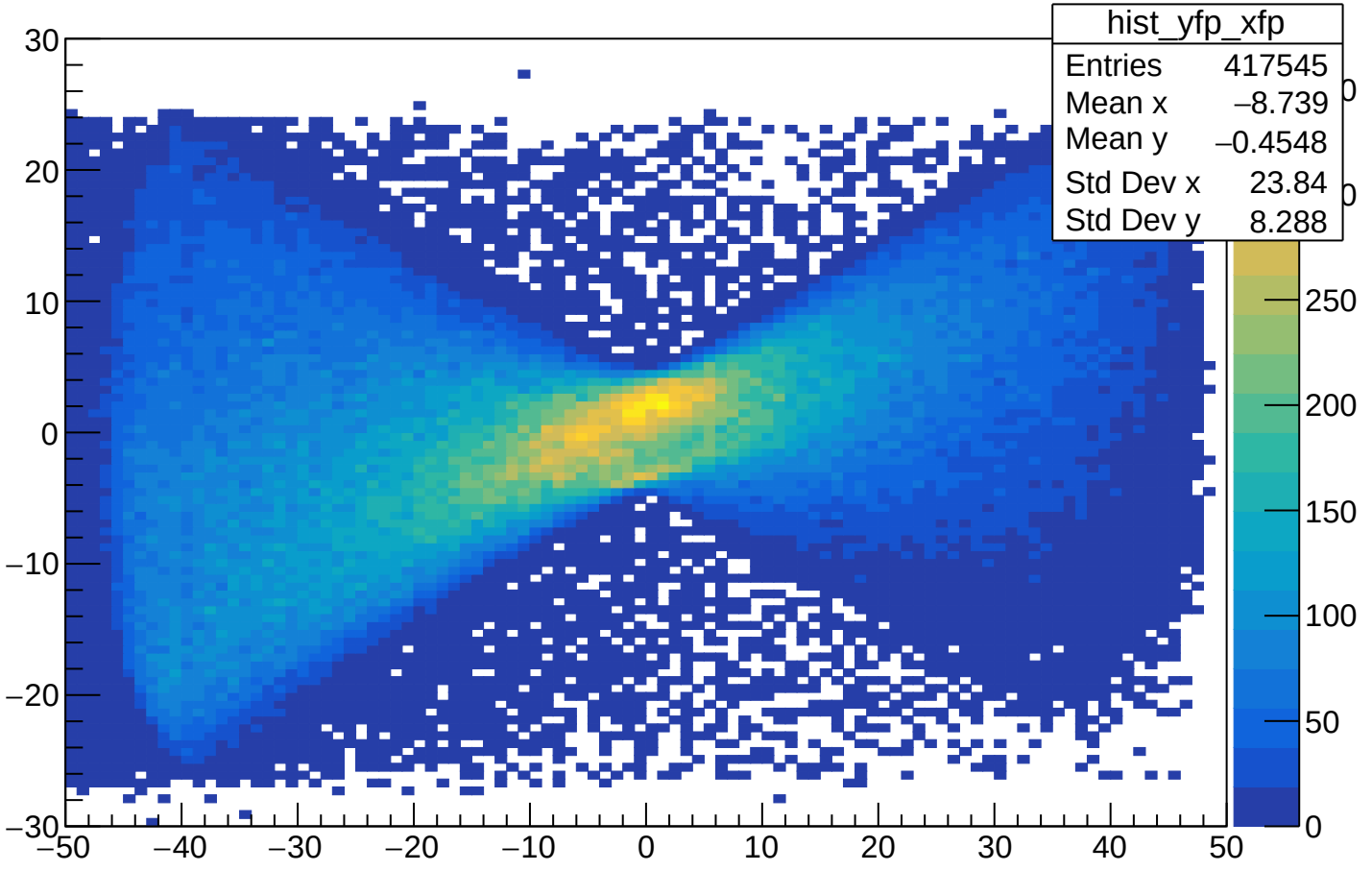
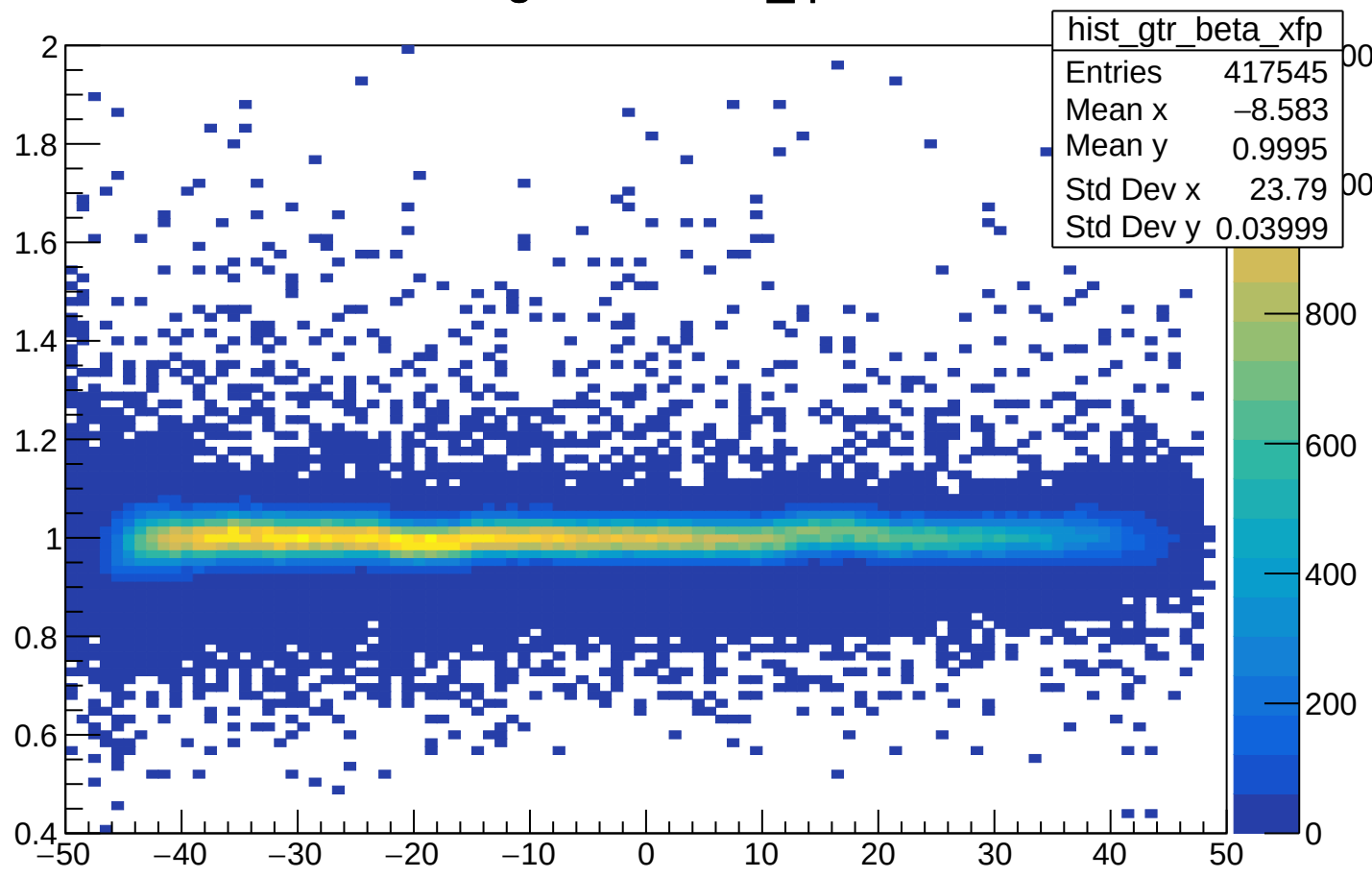

H.gtr.beta
Entries
Beta
Mean (no cuts) = 1.0006 ± 0.0001
Sigma (no cuts) = 0.0285 ± 0.0000
Mean (PID) = 1.0009 ± 0.0001
Sigma (PID) = 0.0280 ± 0.0000
Mean (PID & delta) = 1.0007 ± 0.0001
Sigma (PID & delta) = 0.0263 ± 0.0000
H.gtr.beta without cuts
Fit: H.gtr.beta without cuts
H.gtr.beta with PID cuts
Fit: H.gtr.beta with PID cuts
H.gtr.beta with PID and delta cuts
Fit: H.gtr.beta with PID and delta cuts

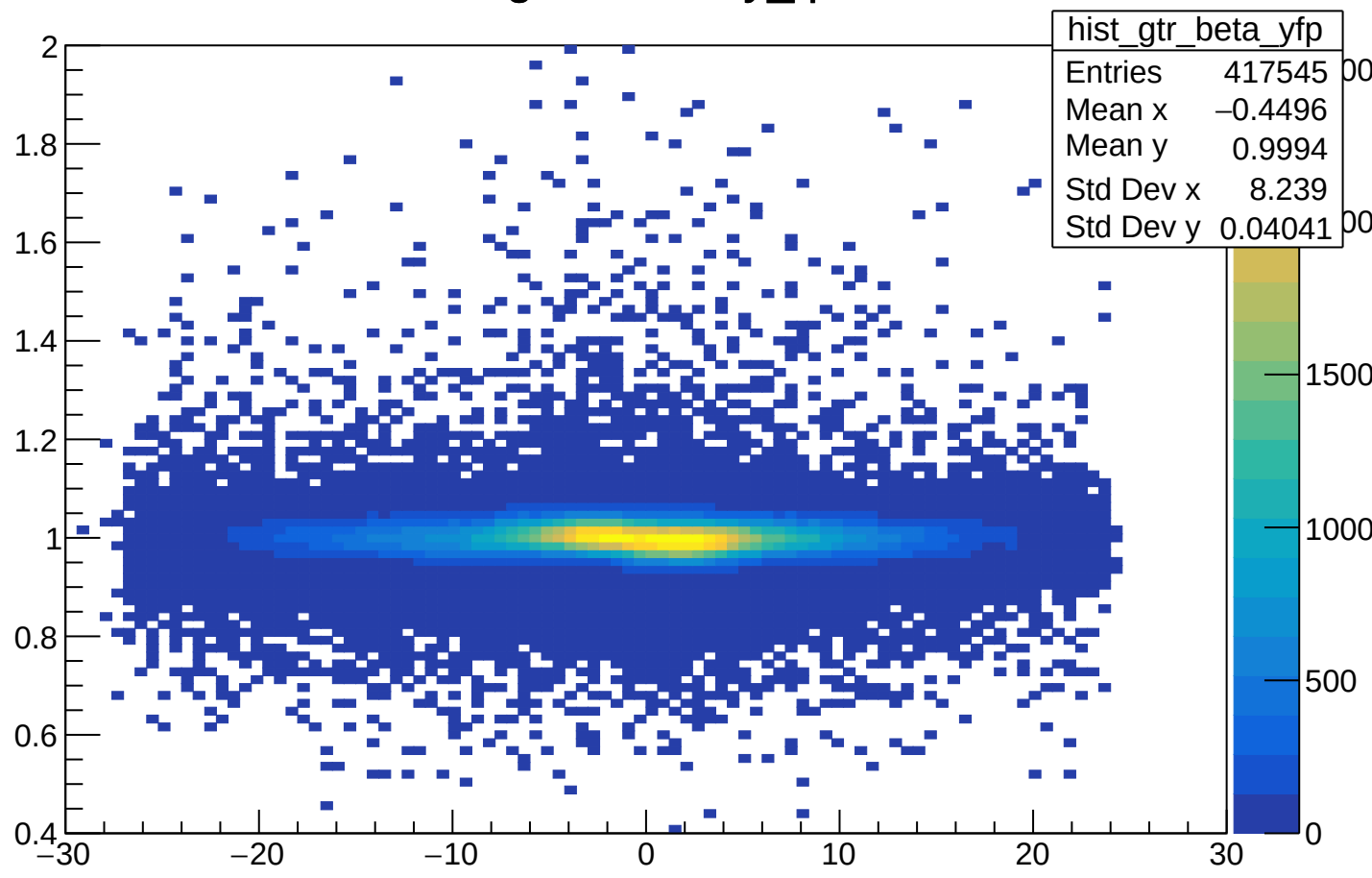

etottracknorm
hist_etottracknorm
Entries 417545
Mean 0.7218
Std Dev 0.4285
x = 0.7
10^5
10^4
10^3
10^2
10
1
0
1
2
3
4
5
6
7
8

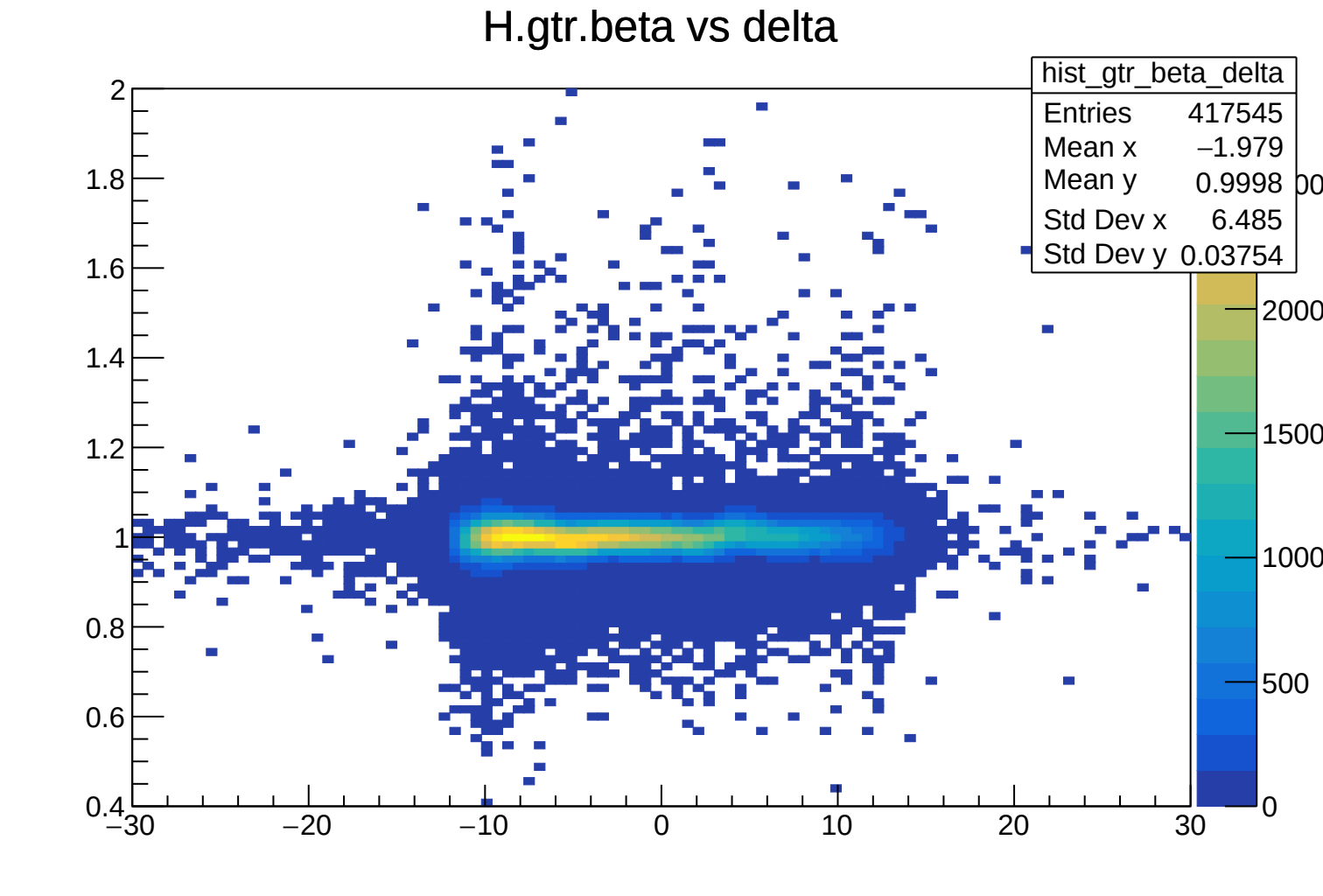

npeSum
x = 0.7
hist_npeSum
Entries 417545
Mean 9.882
Std Dev 5.896
10^4
10^3
10^2
10
1
0
10
20
30
40
50
60
70

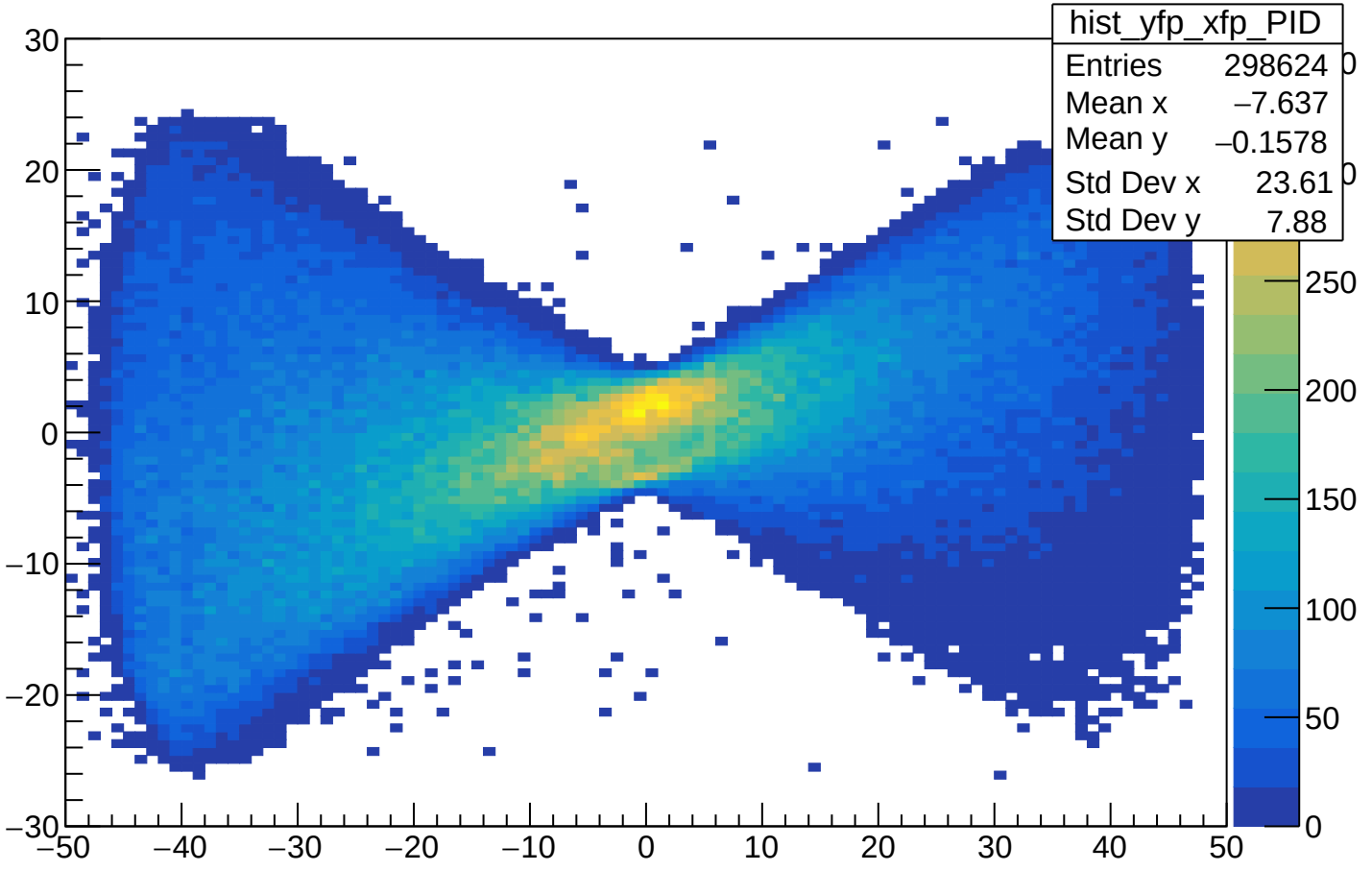

delta
hist_delta
Entries 417545
Mean −1.991
Std Dev 6.491
x = -8
x = 8
10^4
10^3
10^2
10
1
−30
−20
−10
0
10
20
30

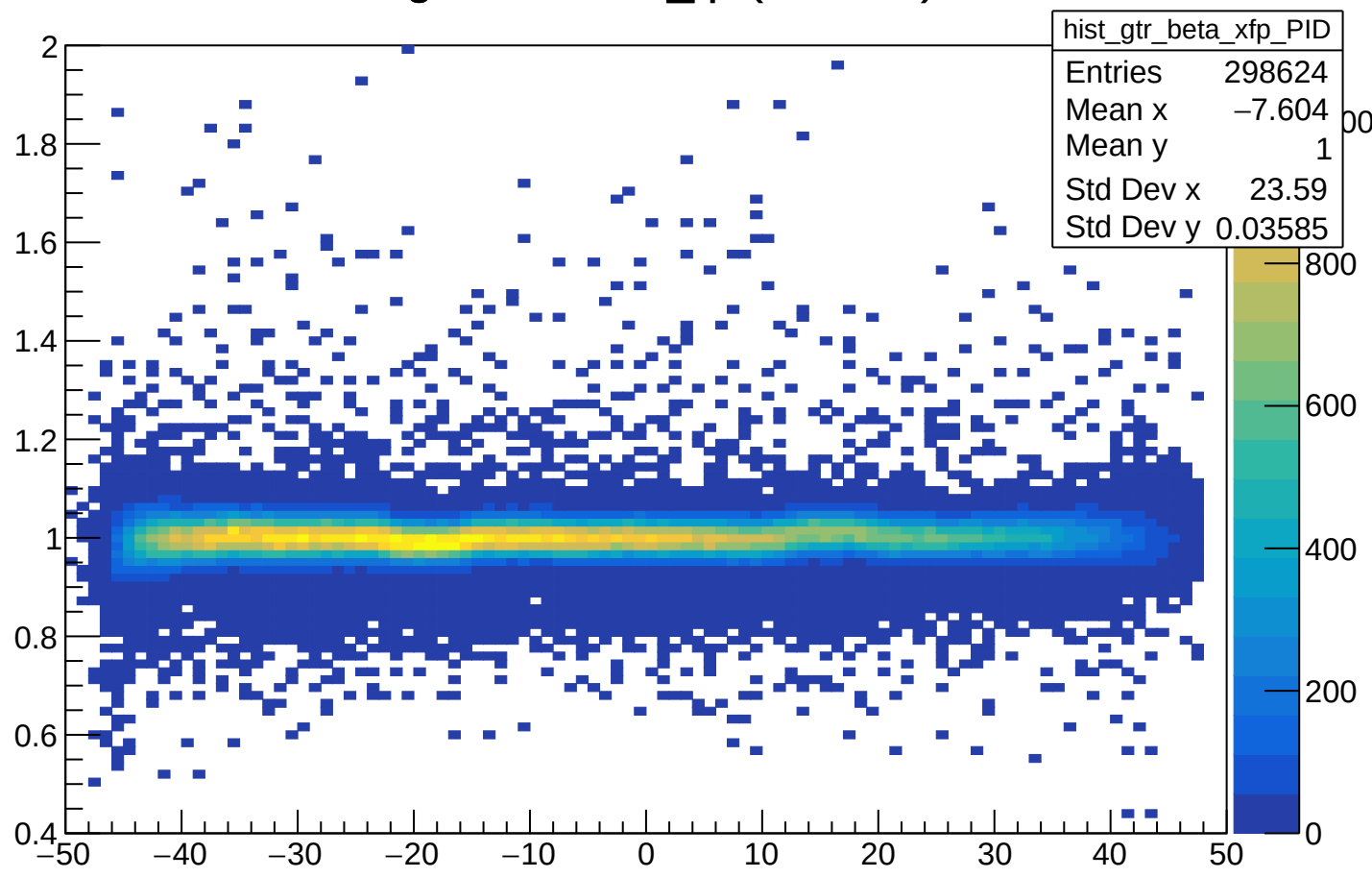

focal plane
hist_yfp_xfp
Entries 417545
Mean x −8.739
Mean y −0.4548
Std Dev x 23.84
Std Dev y 8.288
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
250
200
150
100
50
0

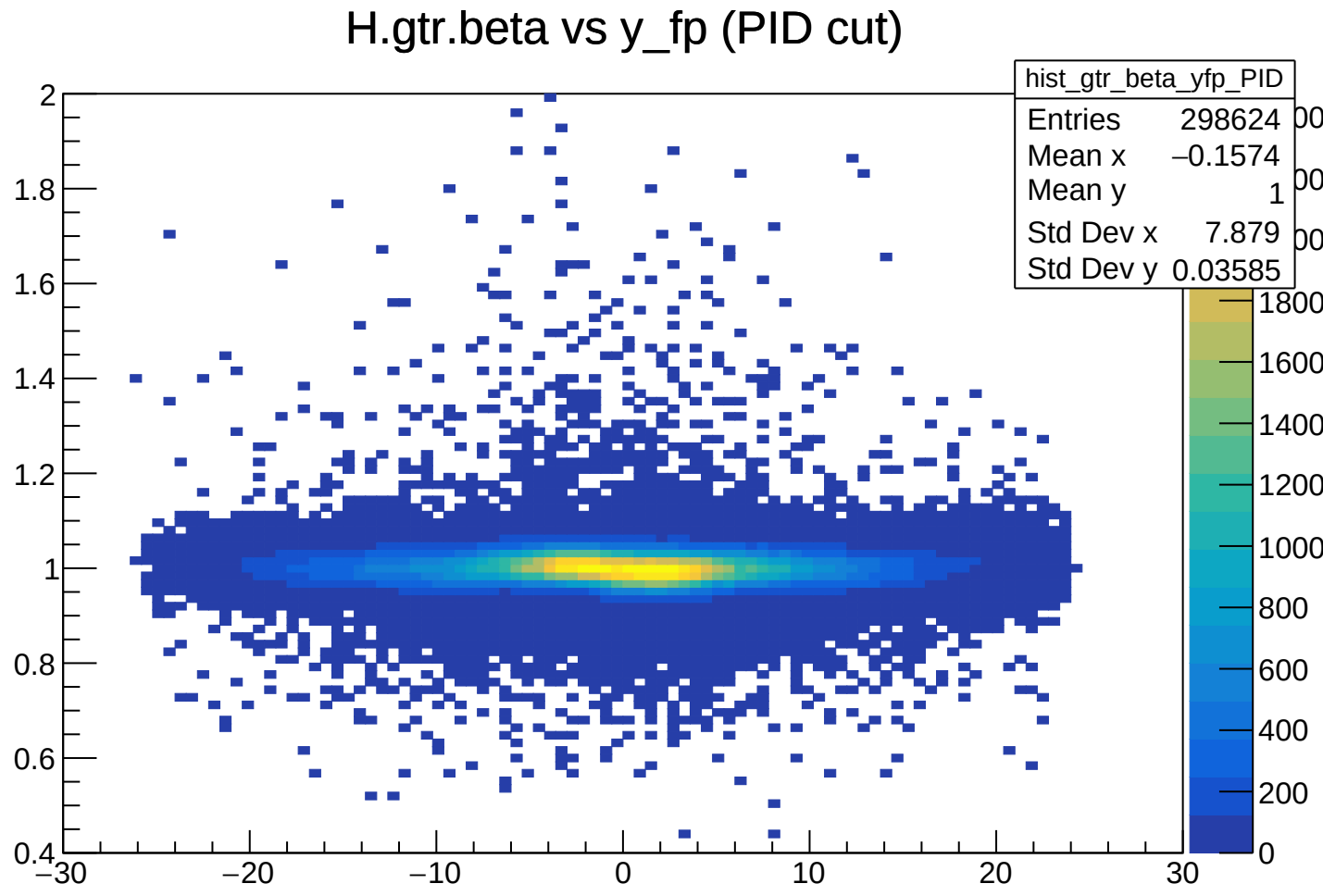

H.gtr.beta vs x_fp
hist_gtr_beta_xfp
Entries 417545
Mean x −8.583
Mean y 0.9995
Std Dev x 23.79
Std Dev y 0.03999
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−50
−40
−30
−20
−10
0
10
20
30
40
50
800
600
400
200
0

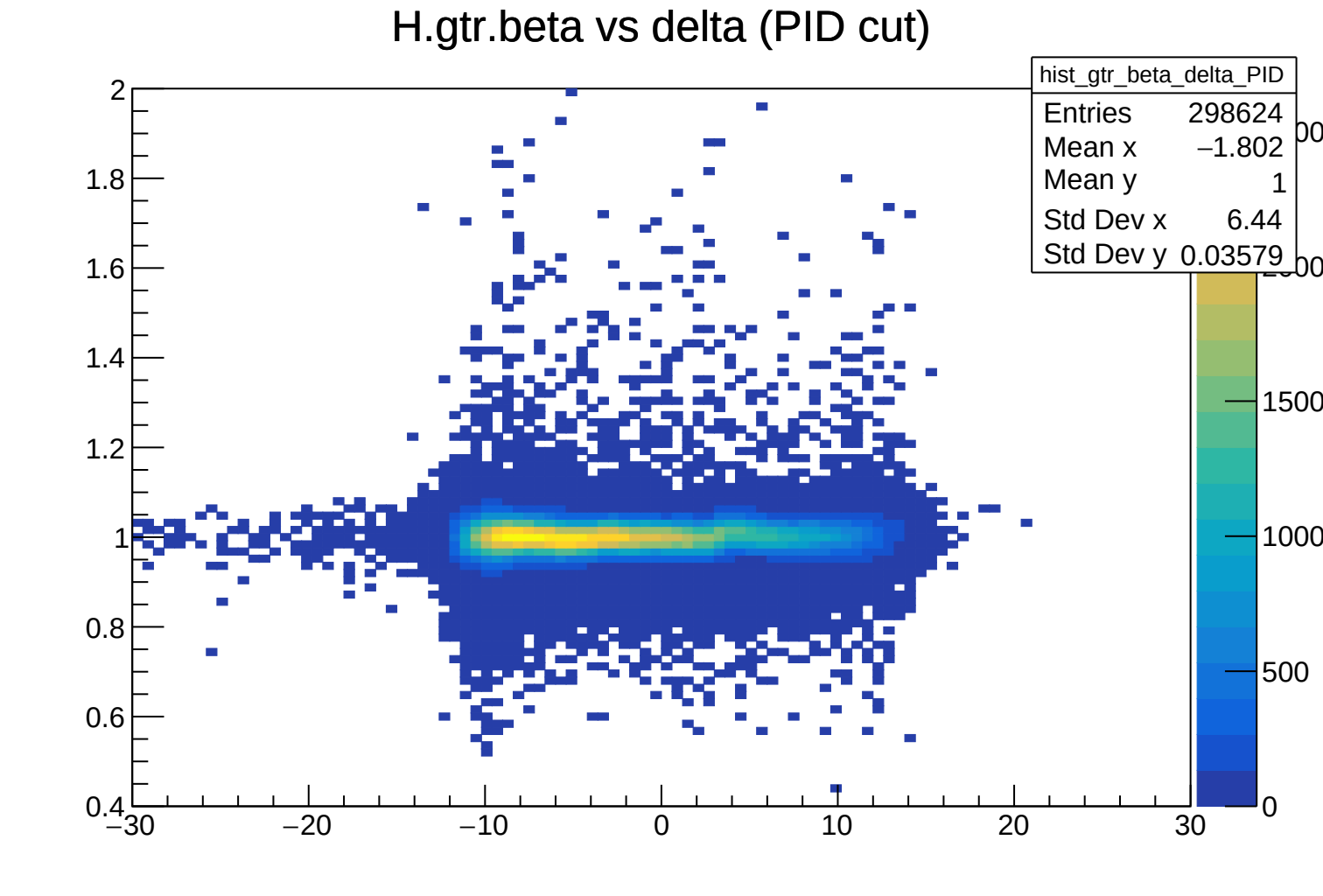

H.gtr.beta vs y_fp
hist_gtr_beta_yfp
Entries 417545
Mean x −0.4496
Mean y 0.9994
Std Dev x 8.239
Std Dev y 0.04041
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
1500
1000
500
0

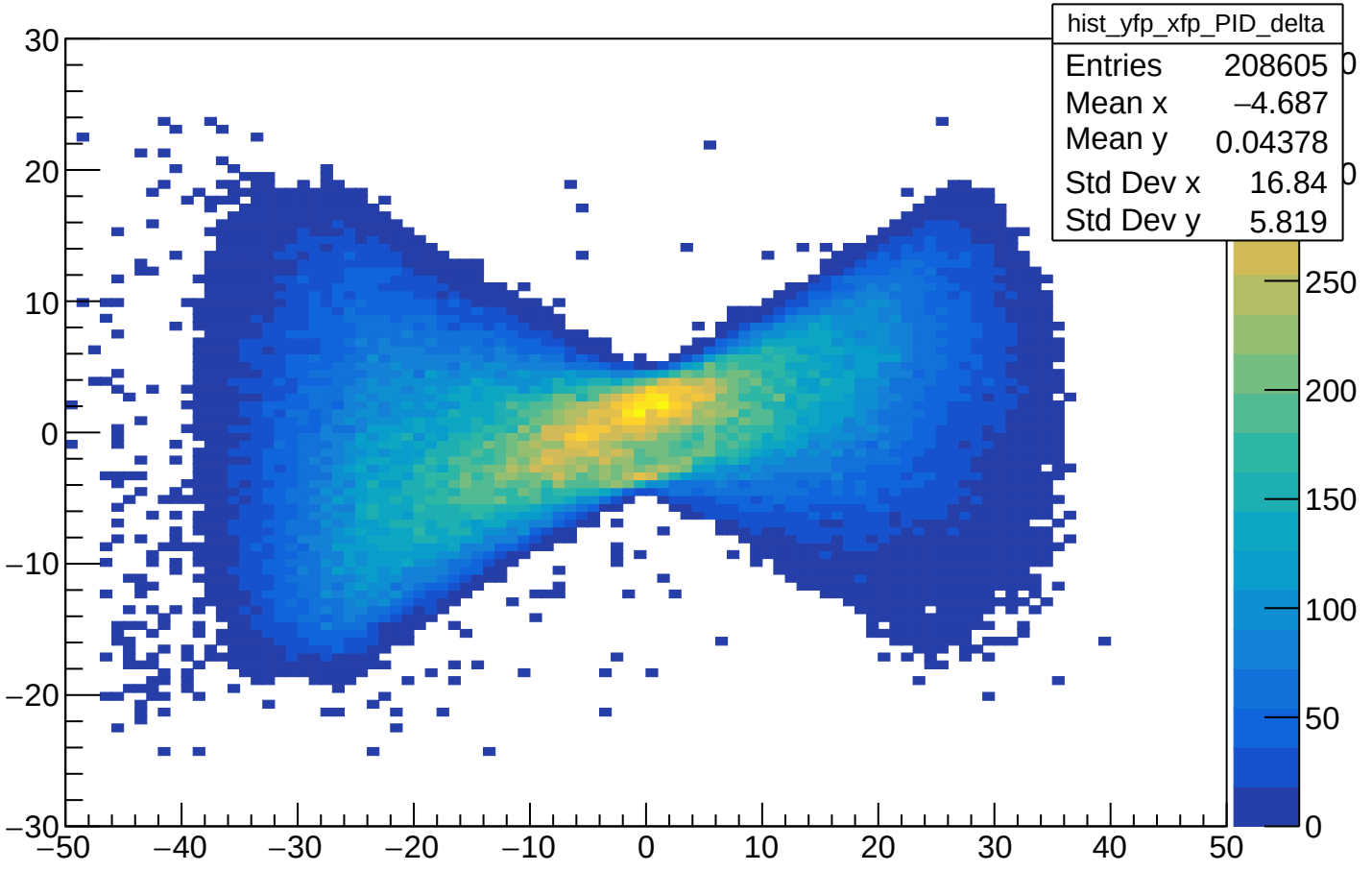

H.gtr.beta vs delta
hist_gtr_beta_delta
Entries 417545
Mean x −1.979
Mean y 0.9998
Std Dev x 6.485
Std Dev y 0.03754
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
2000
1500
1000
500
0

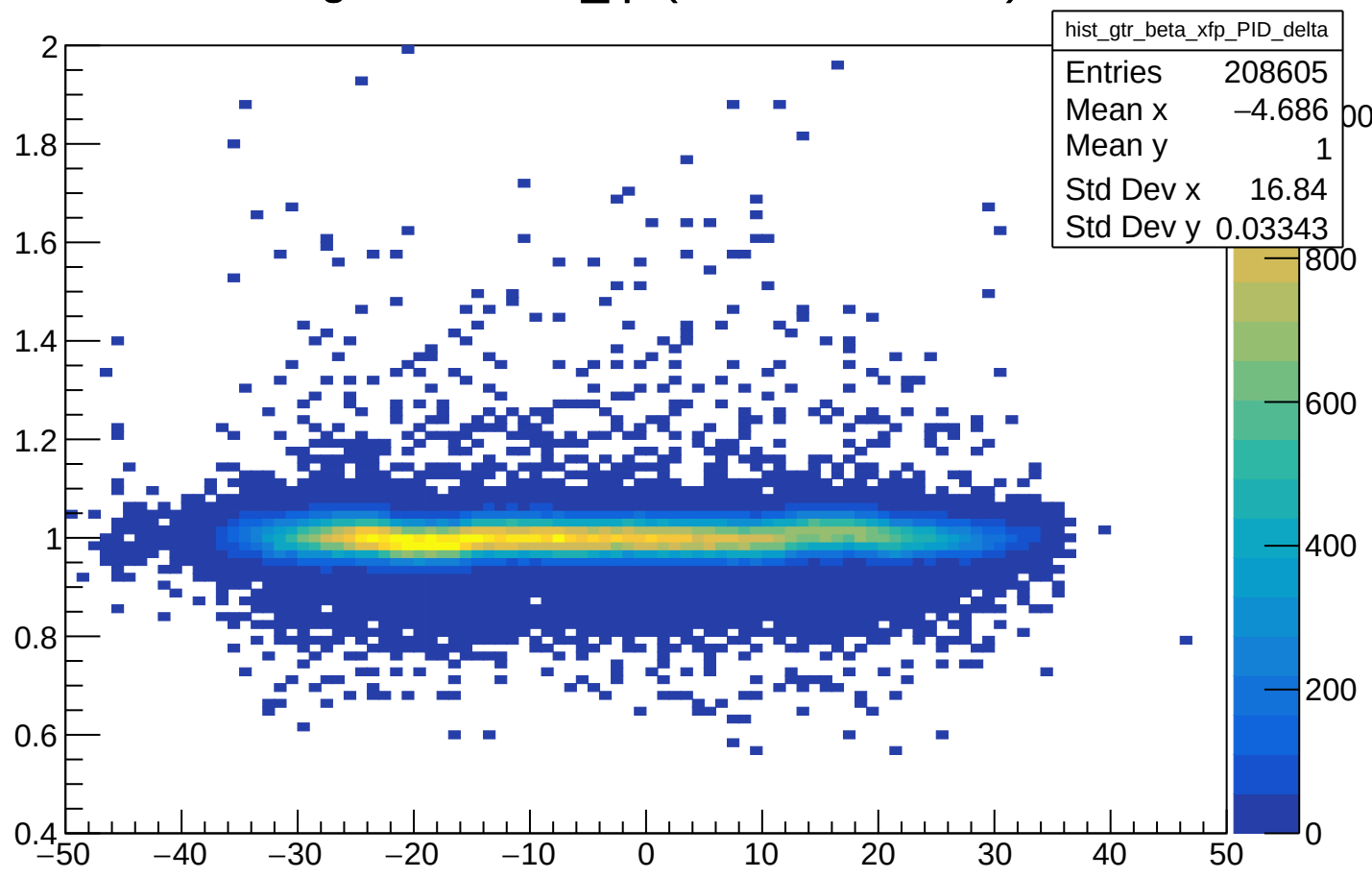

focal plane (PID cut)
hist_yfp_xfp_PID
Entries 298624
Mean x −7.637
Mean y −0.1578
Std Dev x 23.61
Std Dev y 7.88
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
250
200
150
100
50
0

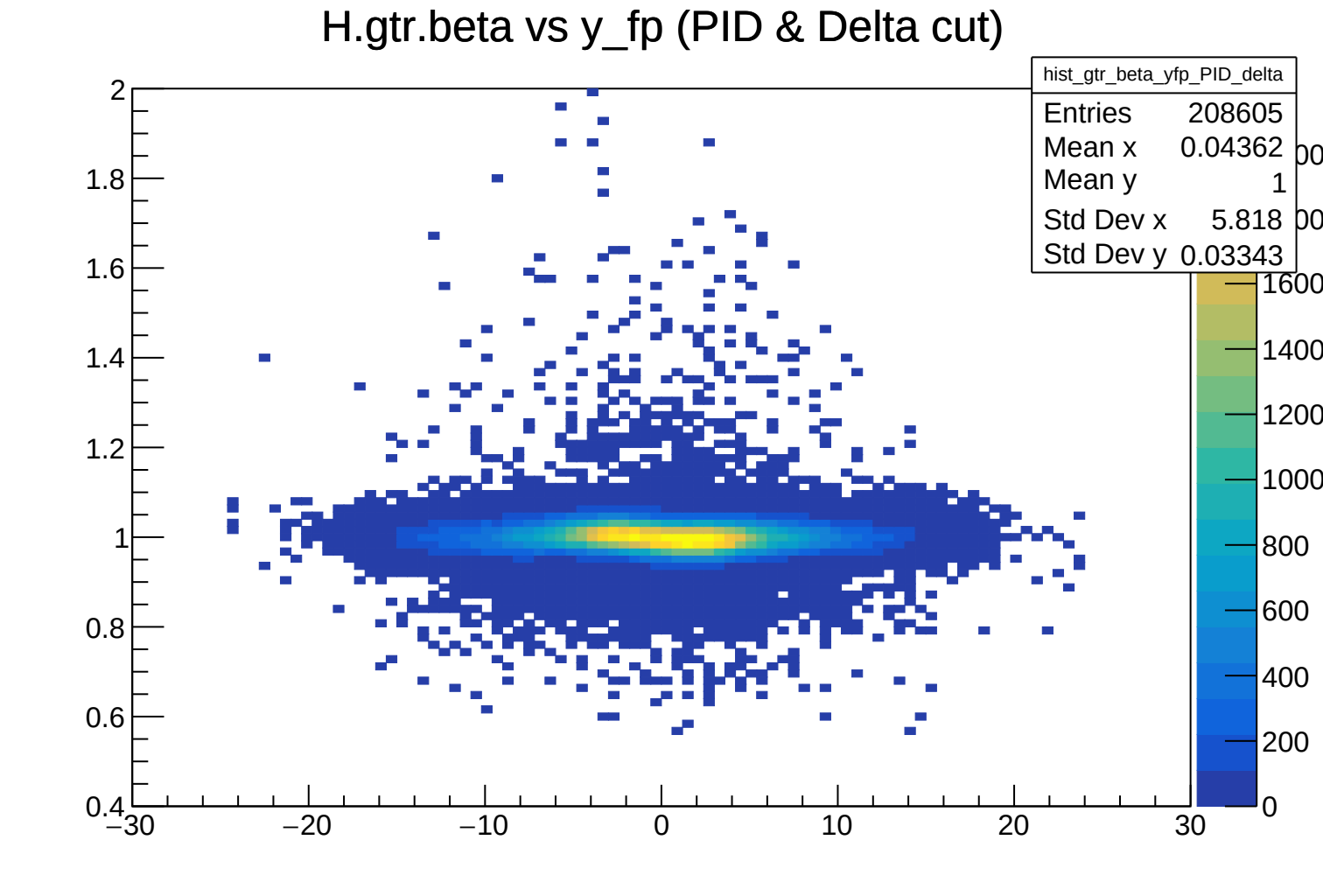

H.gtr.beta vs x_fp (PID cut)
hist_gtr_beta_xfp_PID
Entries 298624
Mean x −7.604
Mean y 1
Std Dev x 23.59
Std Dev y 0.03585
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−50
−40
−30
−20
−10
0
10
20
30
40
50
800
600
400
200
0

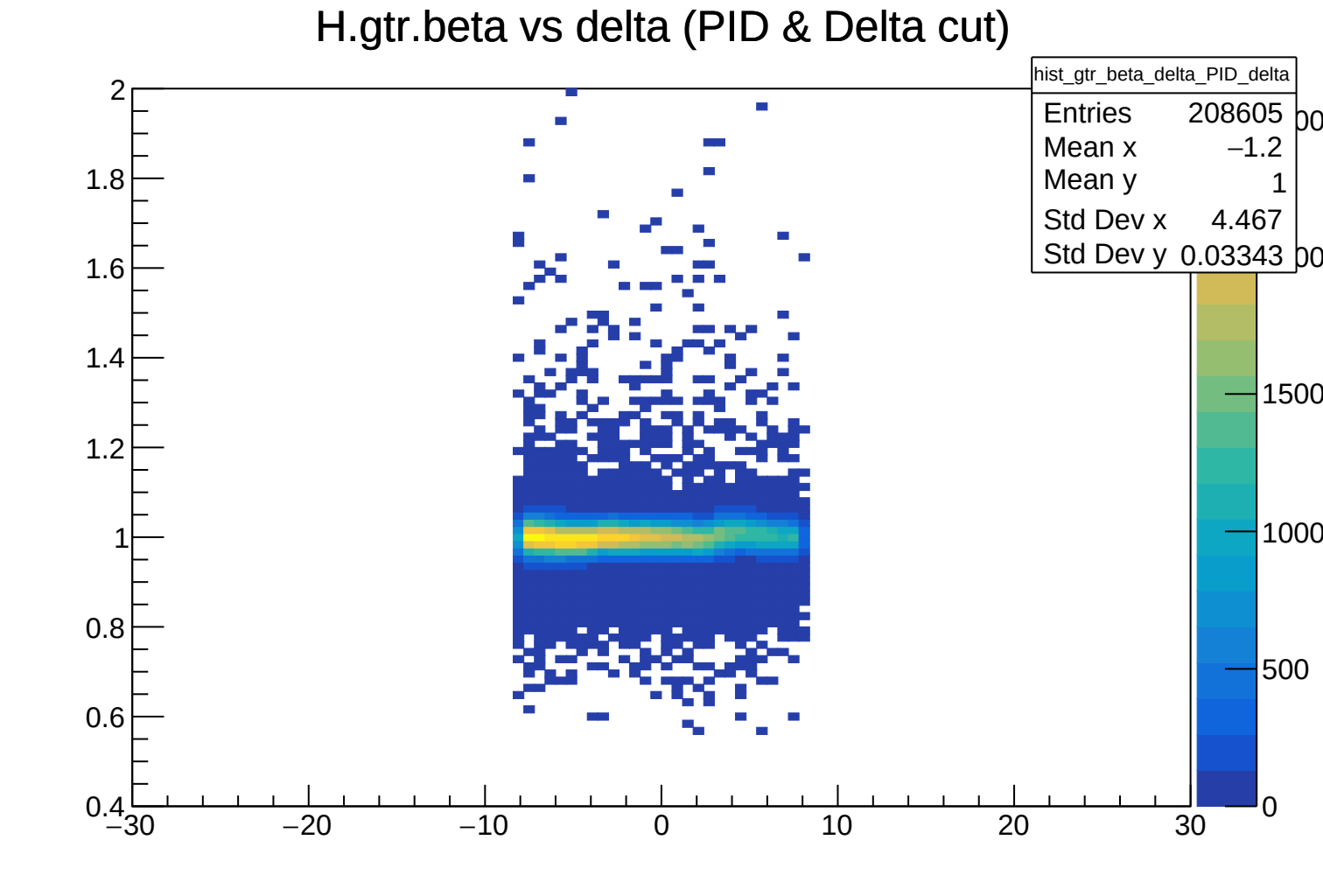

H.gtr.beta vs y_fp (PID cut)
hist_gtr_beta_yfp_PID
Entries 298624
Mean x −0.1574
Mean y 1
Std Dev x 7.879
Std Dev y 0.03585
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
1800
1600
1400
1200
1000
800
600
400
200
0


H.gtr.beta vs delta (PID cut)
hist_gtr_beta_delta_PID
Entries 298624
Mean x −1.802
Mean y 1
Std Dev x 6.44
Std Dev y 0.03579
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


focal plane (PID & Delta cut)
hist_yfp_xfp_PID_delta
Entries 208605
Mean x –4.687
Mean y 0.04378
Std Dev x 16.84
Std Dev y 5.819
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 208605
Mean x −4.686
Mean y 1
Std Dev x 16.84
Std Dev y 0.03343
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 (PID & Delta cut)
hist_gtr_beta_yfp_PID_delta
Entries 208605
Mean x 0.04362
Mean y 1
Std Dev x 5.818
Std Dev y 0.03343
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 208605
Mean x −1.2
Mean y 1
Std Dev x 4.467
Std Dev y 0.03343
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