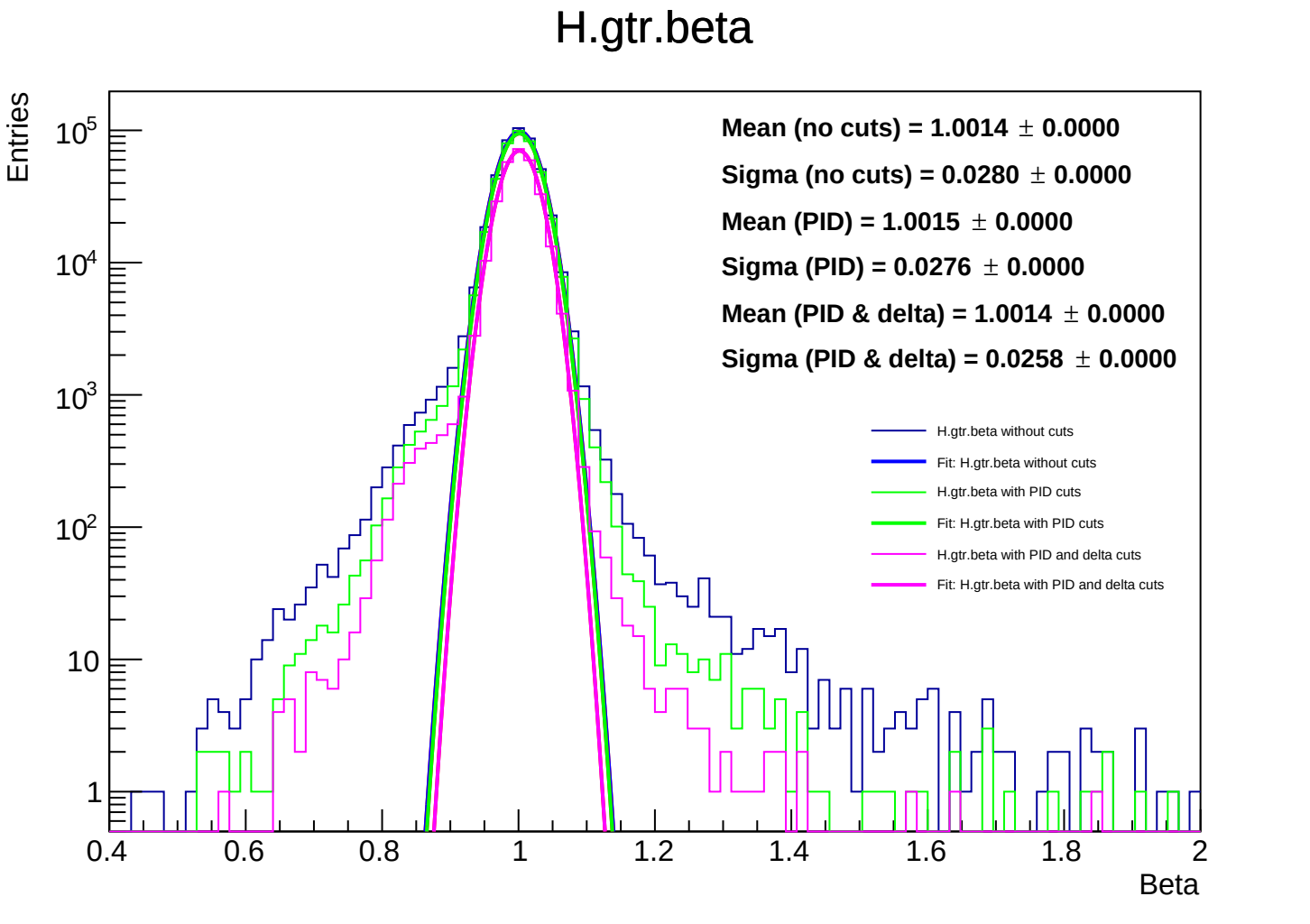
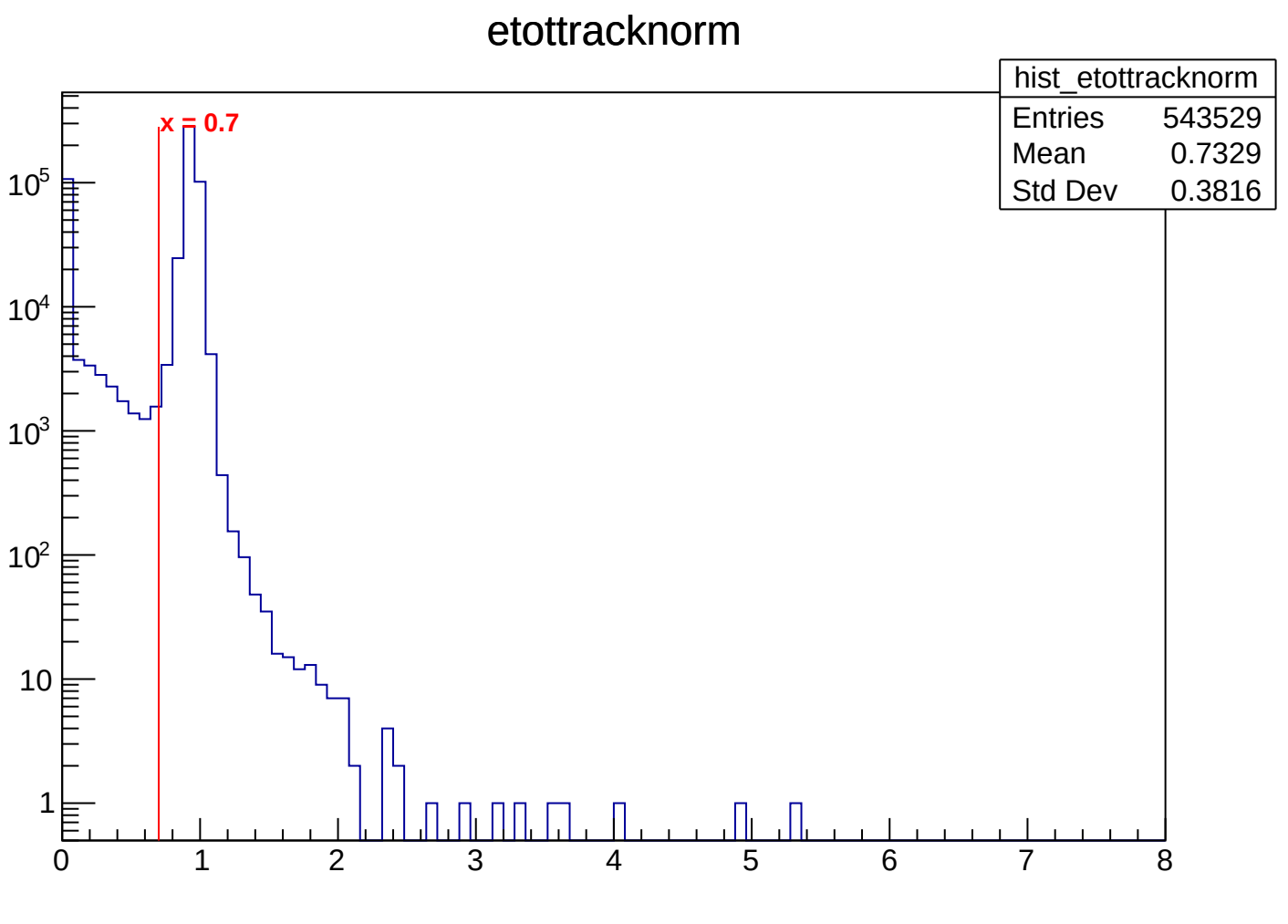
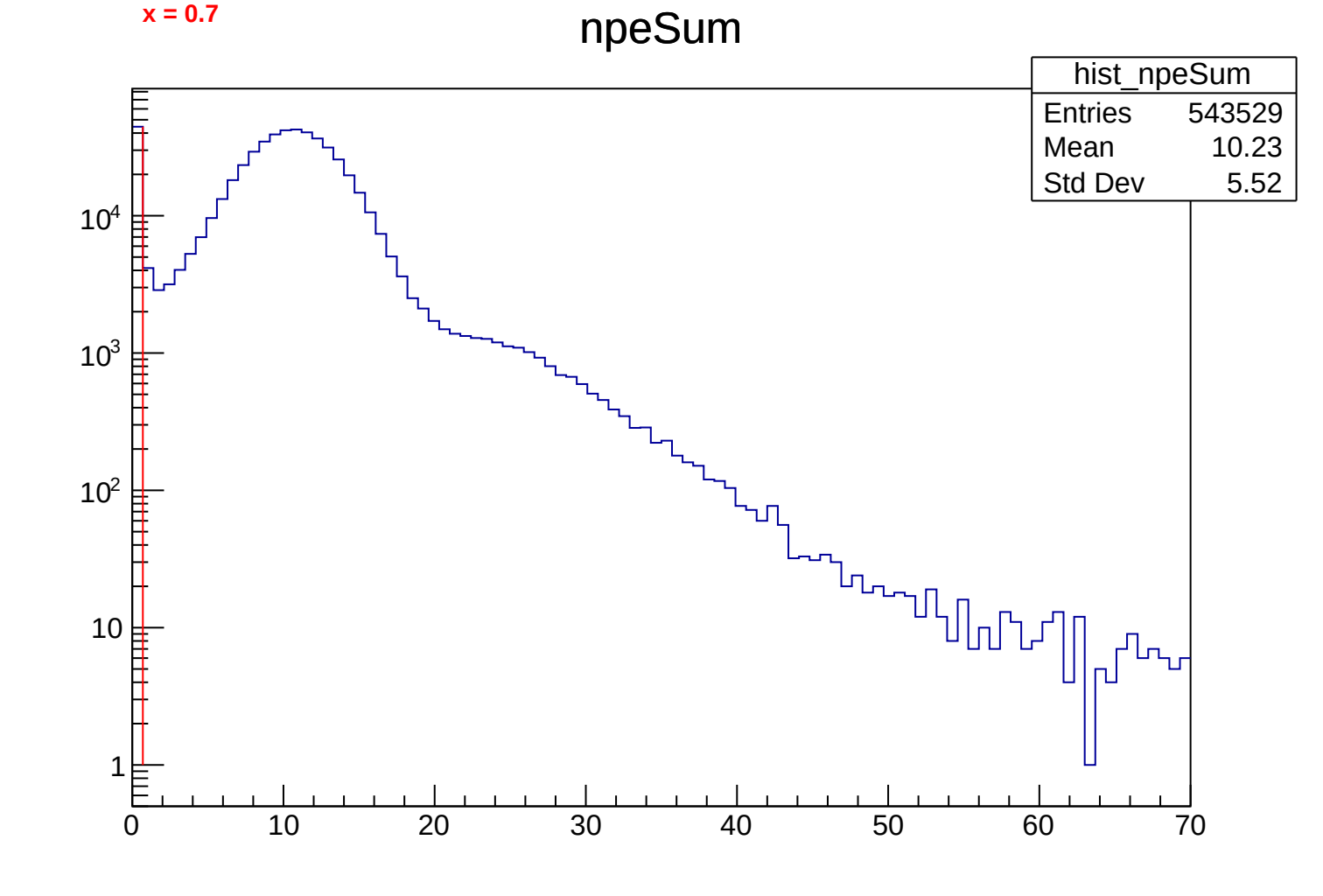
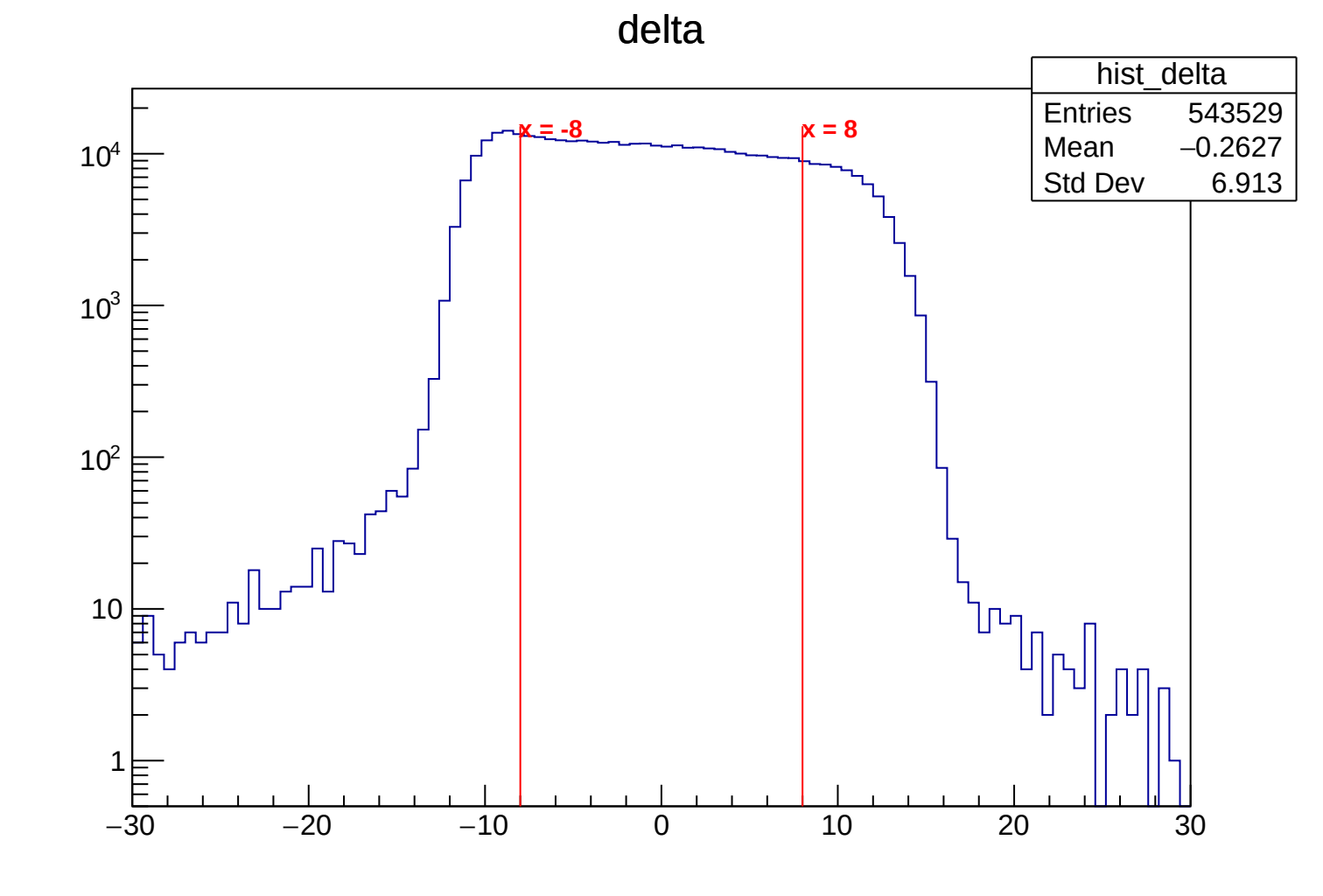
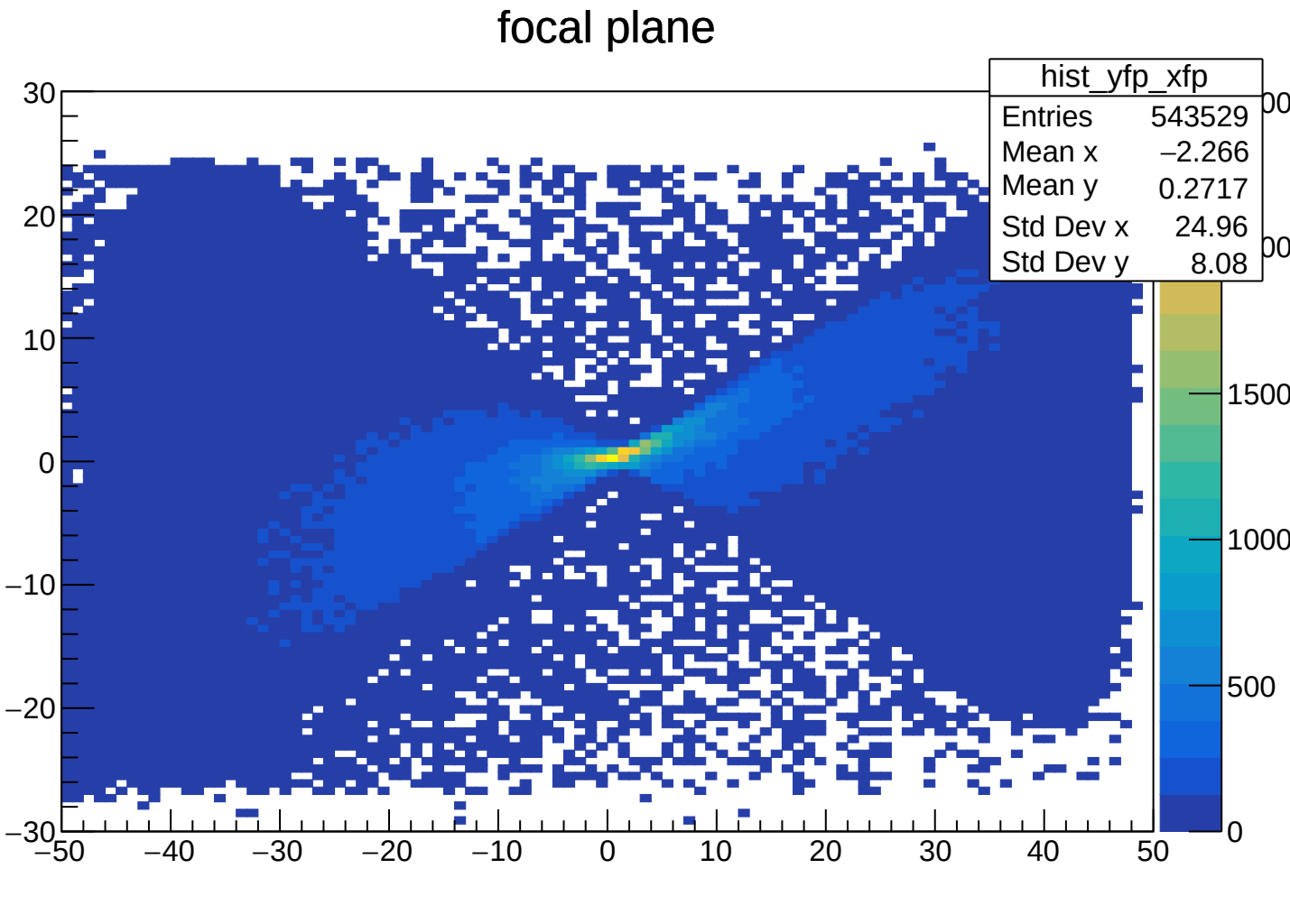
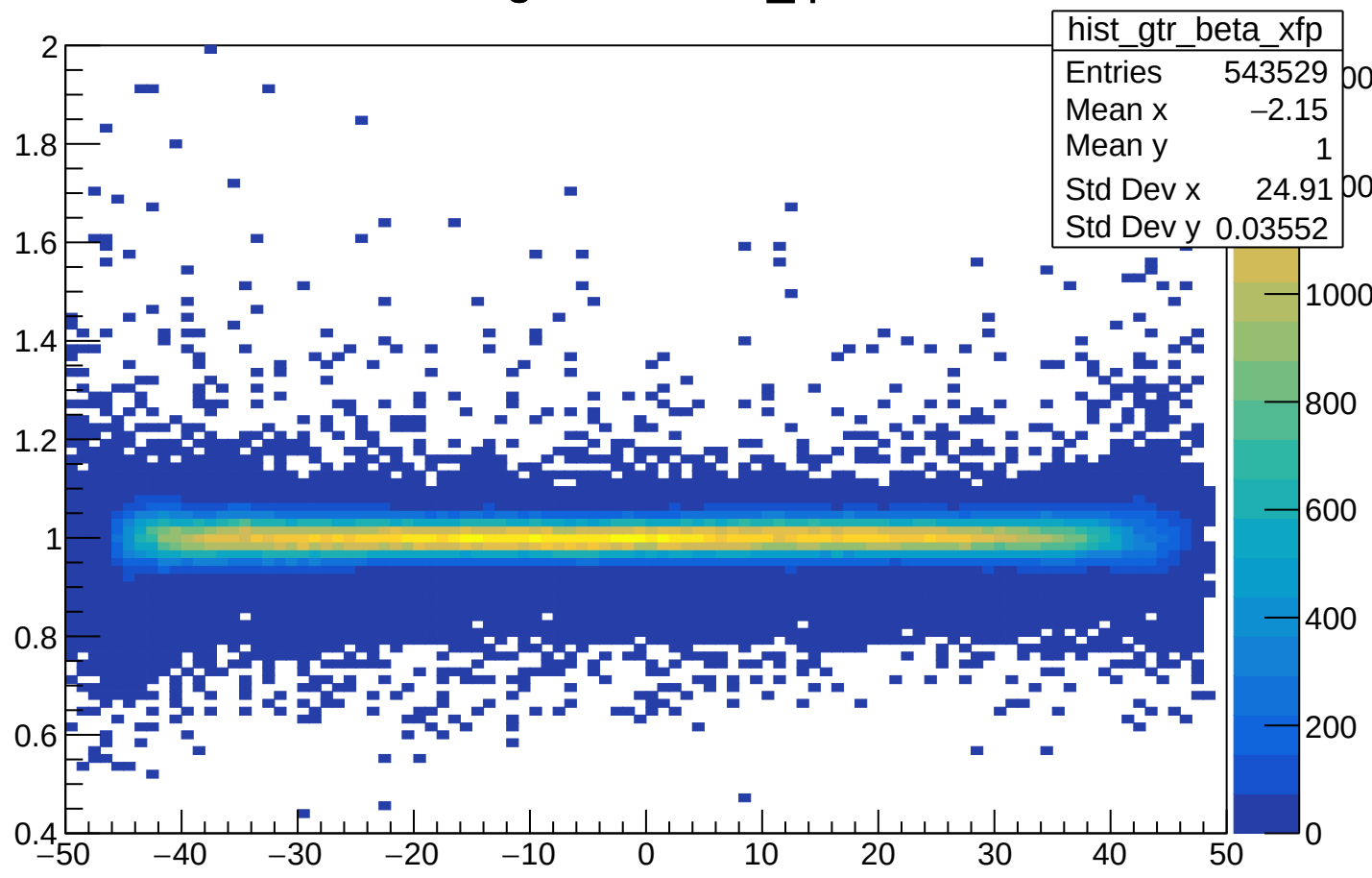

H.gtr.beta
Entries
Beta
Mean (no cuts) = 1.0014 ± 0.0000
Sigma (no cuts) = 0.0280 ± 0.0000
Mean (PID) = 1.0015 ± 0.0000
Sigma (PID) = 0.0276 ± 0.0000
Mean (PID & delta) = 1.0014 ± 0.0000
Sigma (PID & delta) = 0.0258 ± 0.0000
H.gtr.beta without cuts
Fit: H.gtr.beta without cuts
H.gtr.beta with PID cuts
Fit: H.gtr.beta with PID cuts
H.gtr.beta with PID and delta cuts
Fit: H.gtr.beta with PID and delta cuts
10^5
10^4
10^3
10^2
10
1
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2

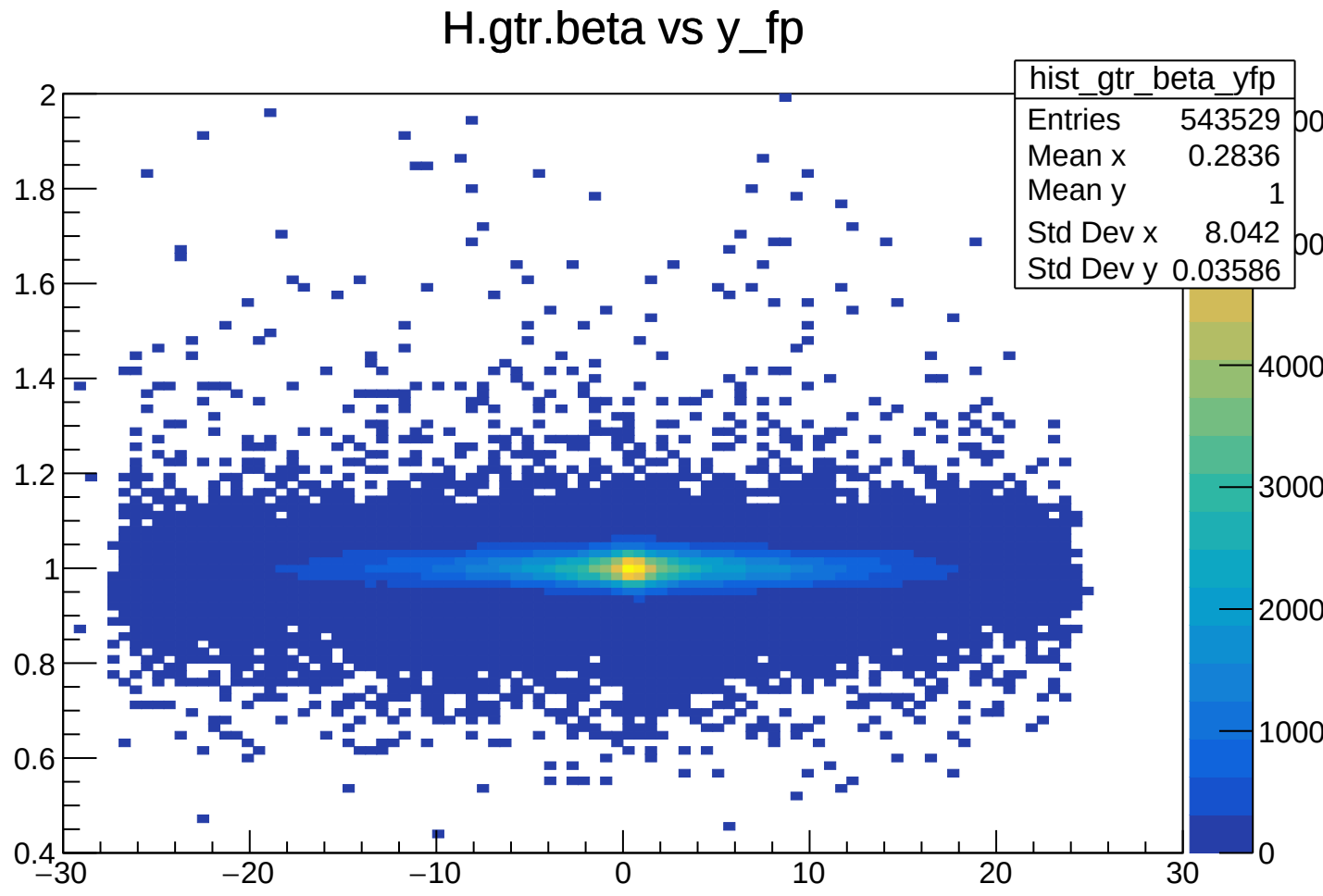

etottracknorm
hist_etottracknorm
Entries 543529
Mean 0.7329
Std Dev 0.3816
x = 0.7
10^5
10^4
10^3
10^2
10
1
0
1
2
3
4
5
6
7
8

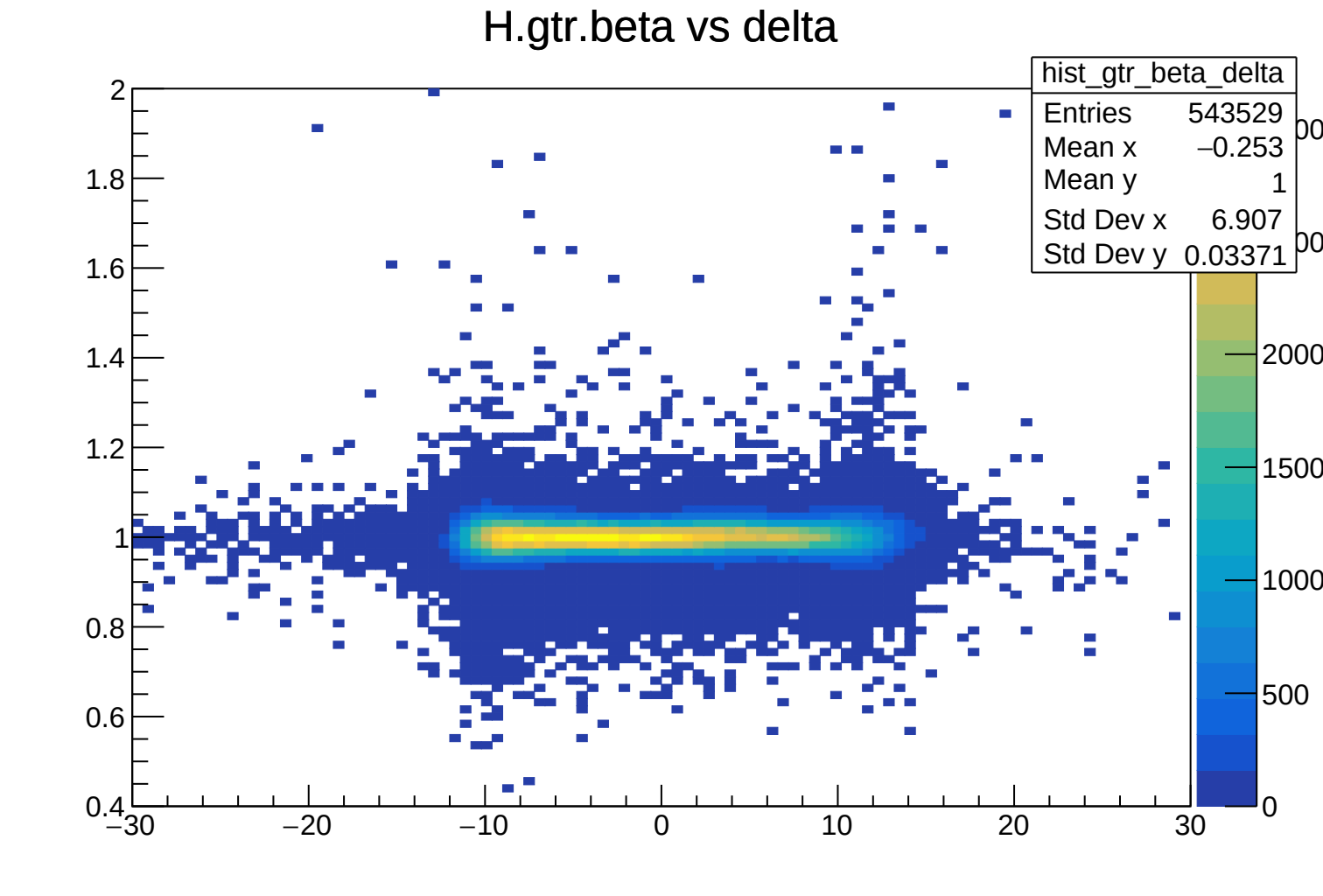

x = 0.7
npeSum
hist_npeSum
Entries 543529
Mean 10.23
Std Dev 5.52
10^4
10^3
10^2
10
1
0
10
20
30
40
50
60
70

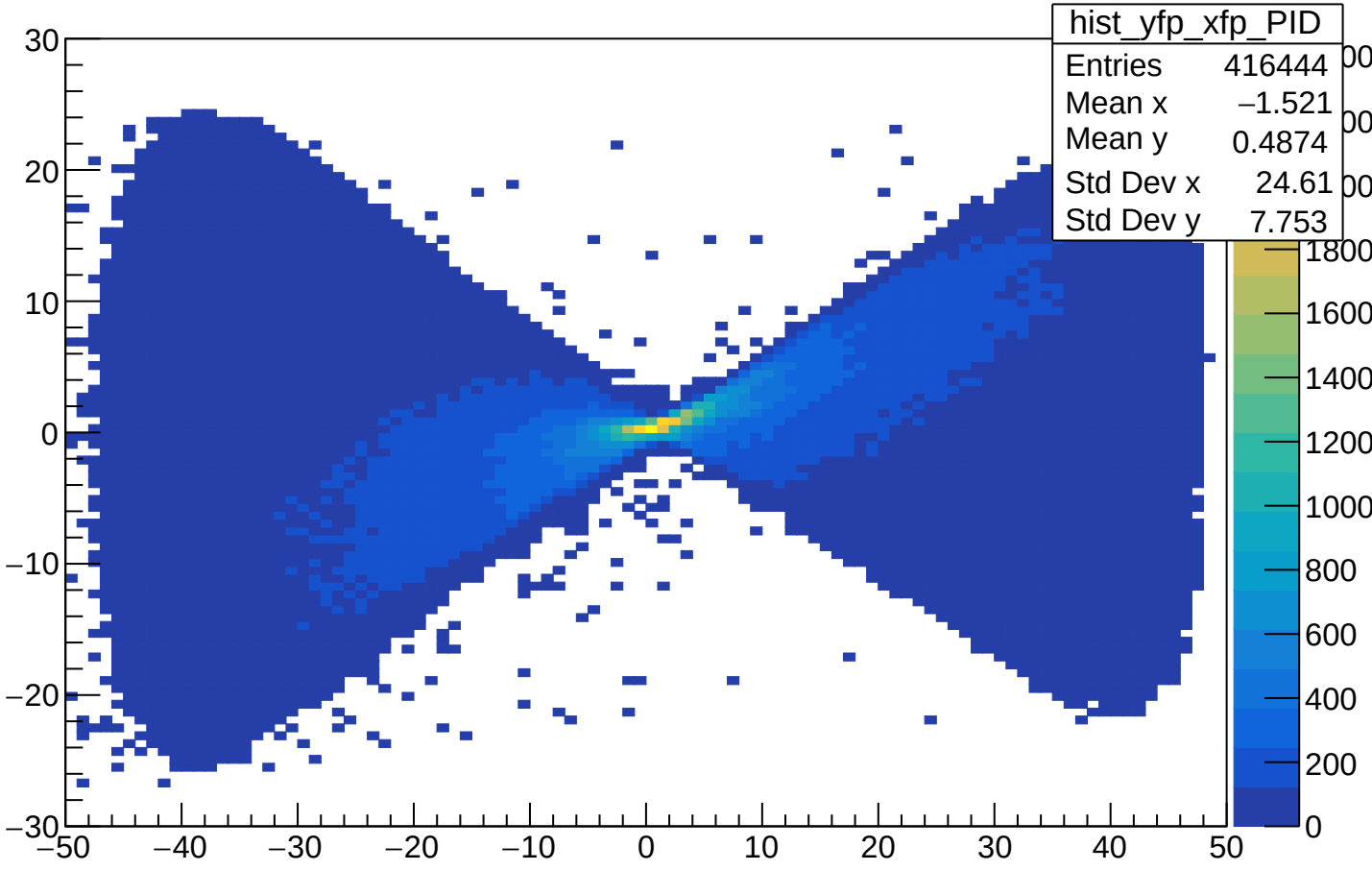

delta
hist_delta
Entries 543529
Mean –0.2627
Std Dev 6.913
x = -8
x = 8
10^4
10^3
10^2
10
1
−30
−20
−10
0
10
20
30

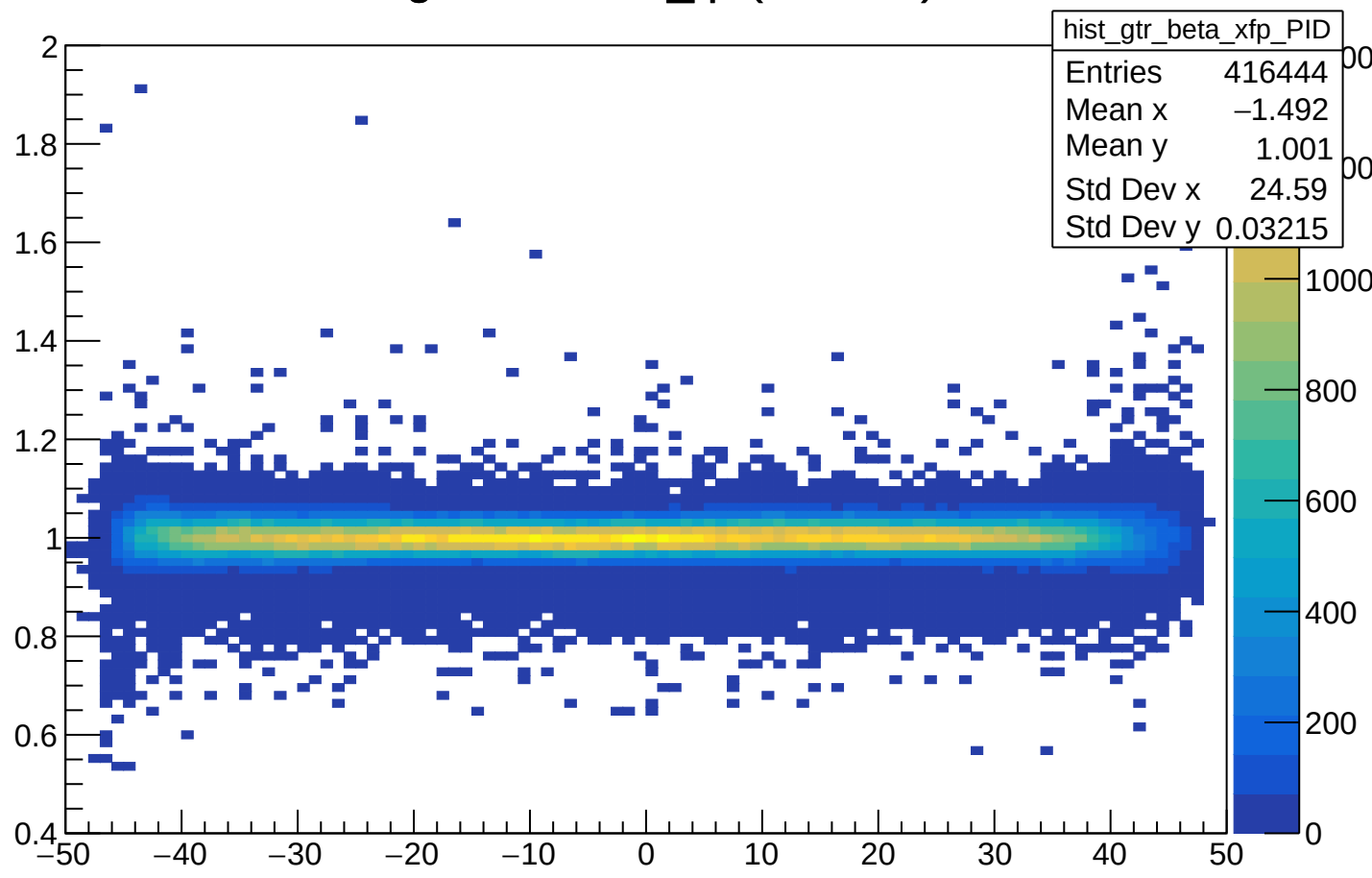

focal plane
hist_yfp_xfp
Entries 543529
Mean x −2.266
Mean y 0.2717
Std Dev x 24.96
Std Dev y 8.08
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
1500
1000
500
0

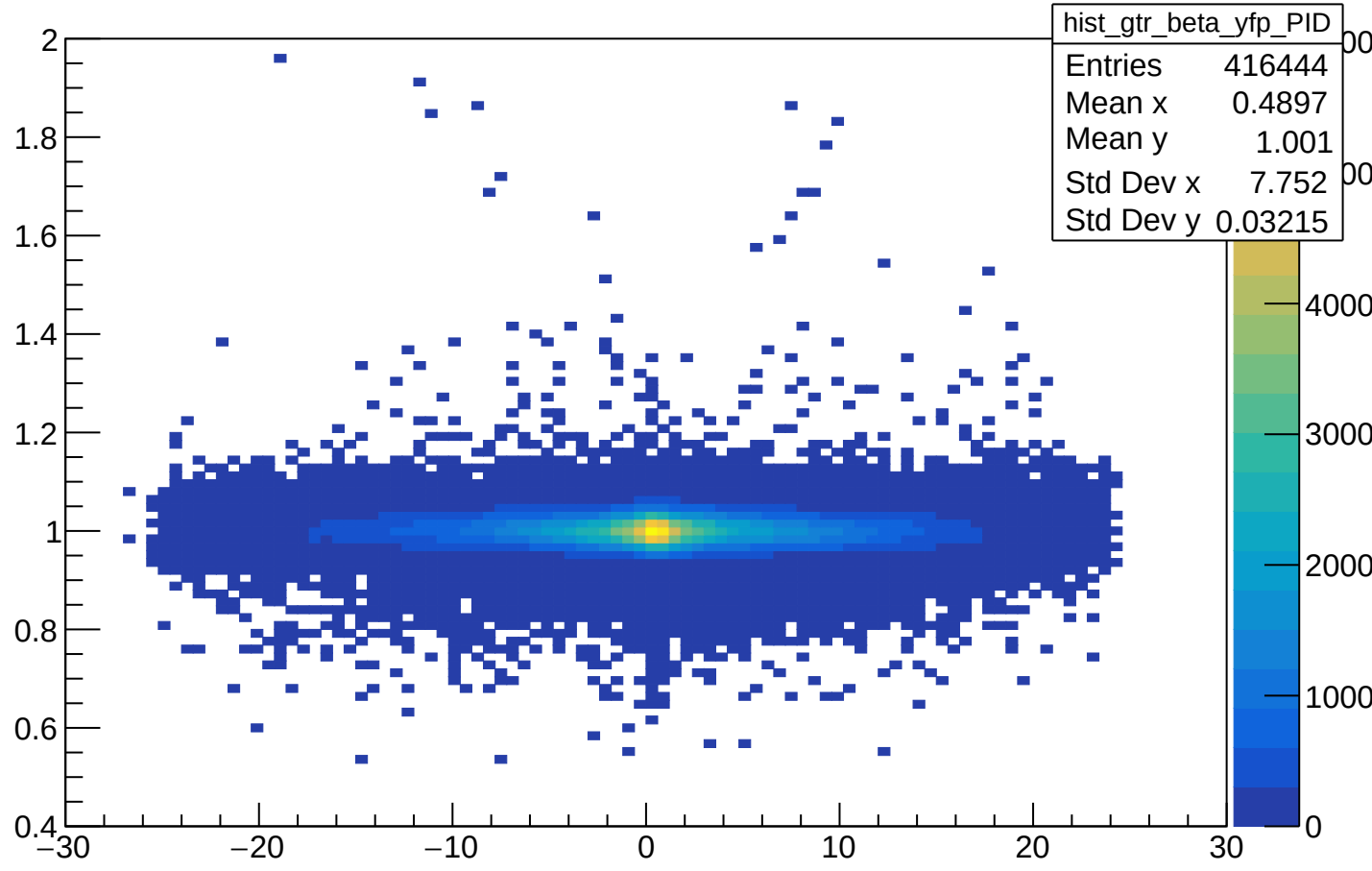

H.gtr.beta vs x_fp
hist_gtr_beta_xfp
Entries 543529
Mean x −2.15
Mean y 1
Std Dev x 24.91
Std Dev y 0.03552
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−50
−40
−30
−20
−10
0
10
20
30
40
50
1000
800
600
400
200
0

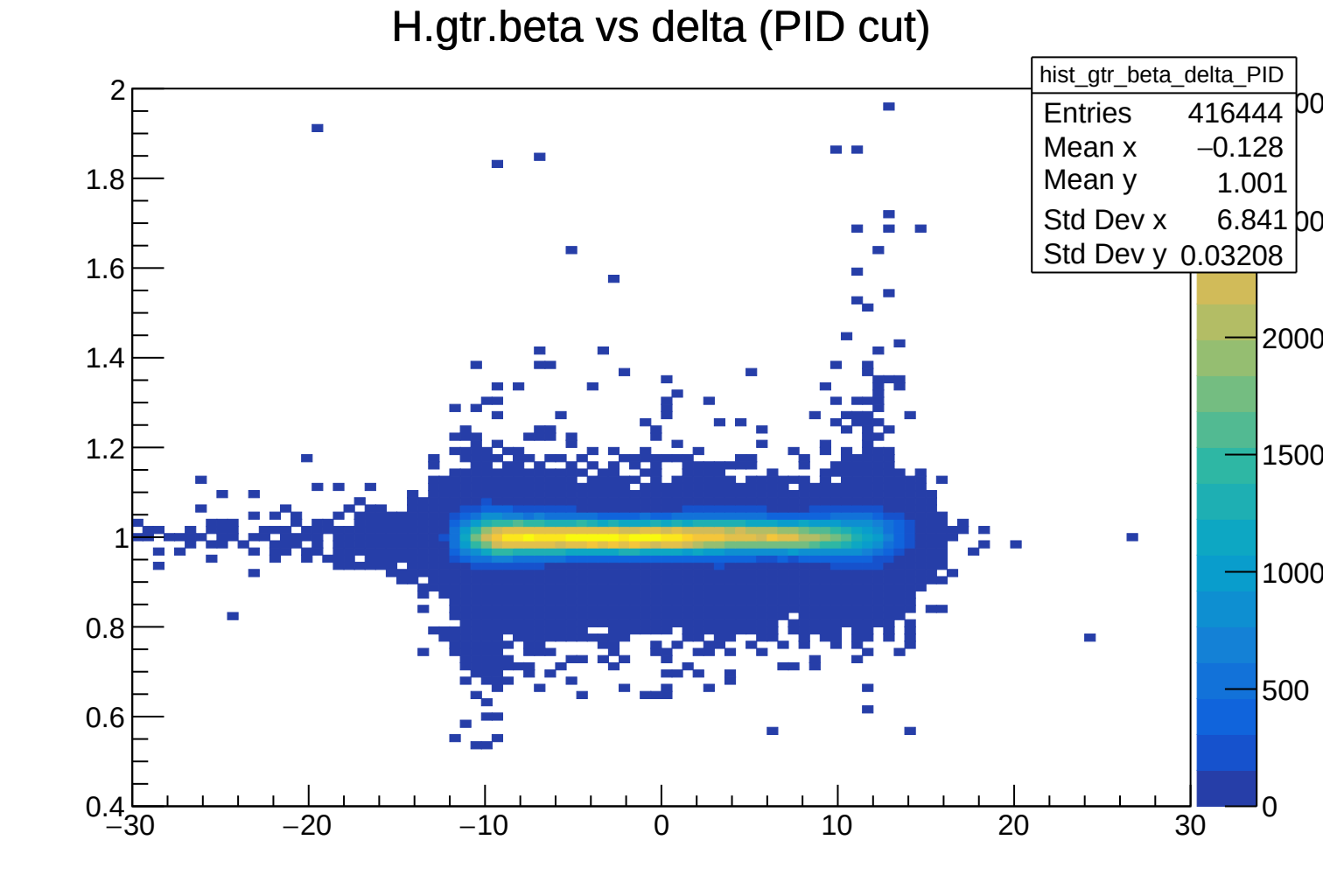

H.gtr.beta vs y_fp
hist_gtr_beta_yfp
Entries 543529
Mean x 0.2836
Mean y 1
Std Dev x 8.042
Std Dev y 0.03586
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
4000
3000
2000
1000
0

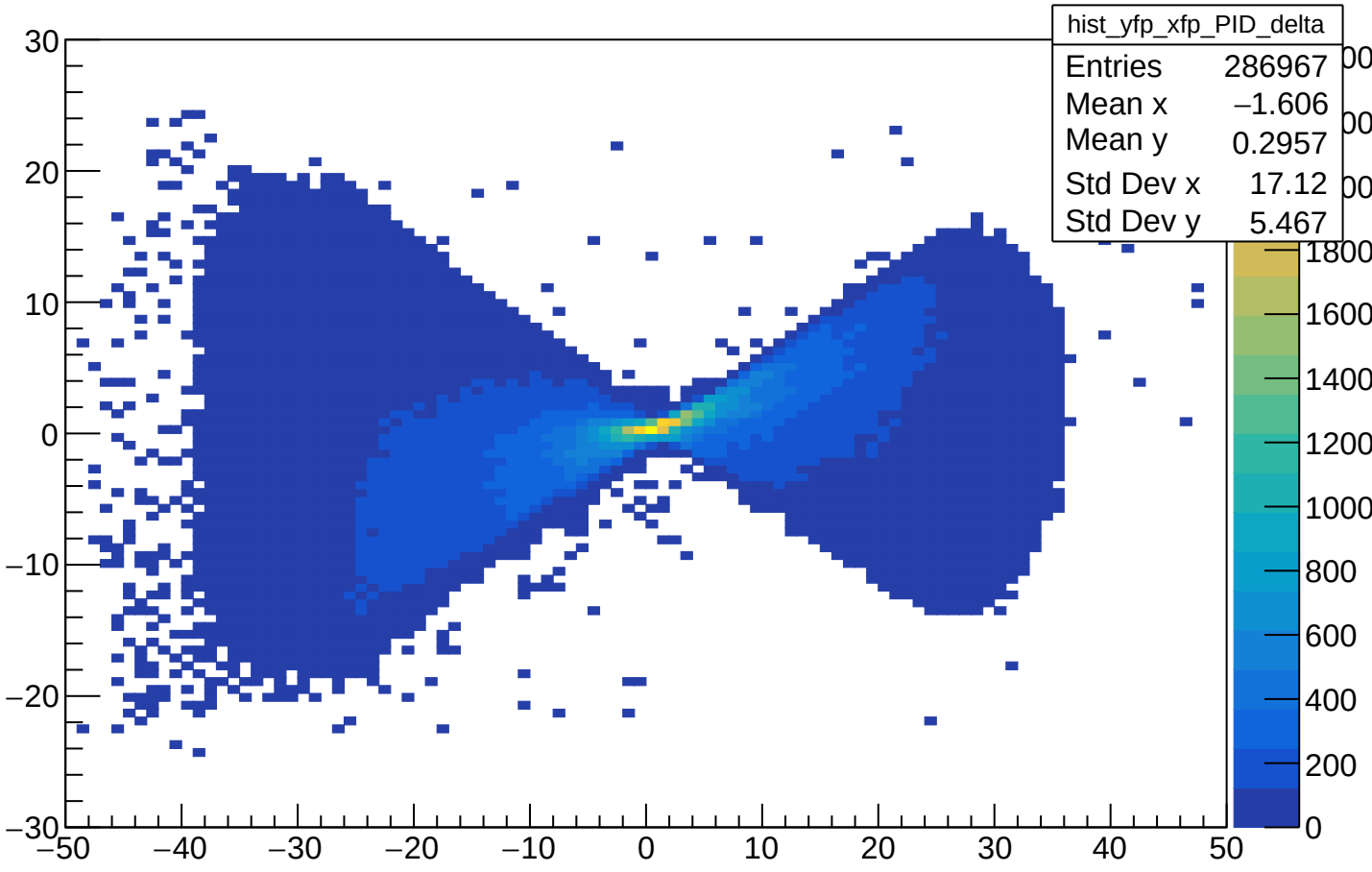

H.gtr.beta vs delta
hist_gtr_beta_delta
Entries 543529
Mean x −0.253
Mean y 1
Std Dev x 6.907
Std Dev y 0.03371
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
2000
1500
1000
500
0

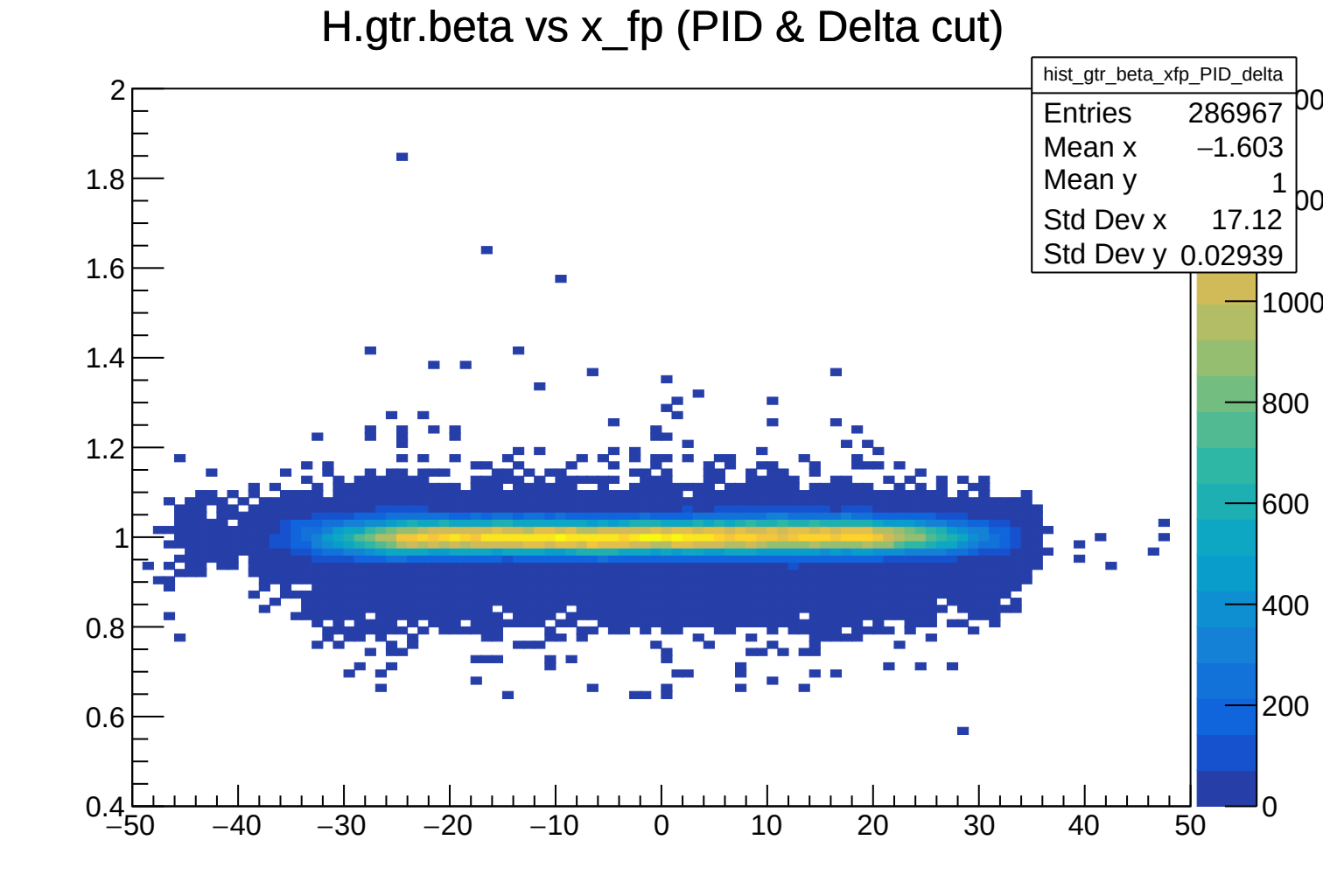

focal plane (PID cut)
hist_yfp_xfp_PID
Entries 416444
Mean x −1.521
Mean y 0.4874
Std Dev x 24.61
Std Dev y 7.753
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
1800
1600
1400
1200
1000
800
600
400
200
0

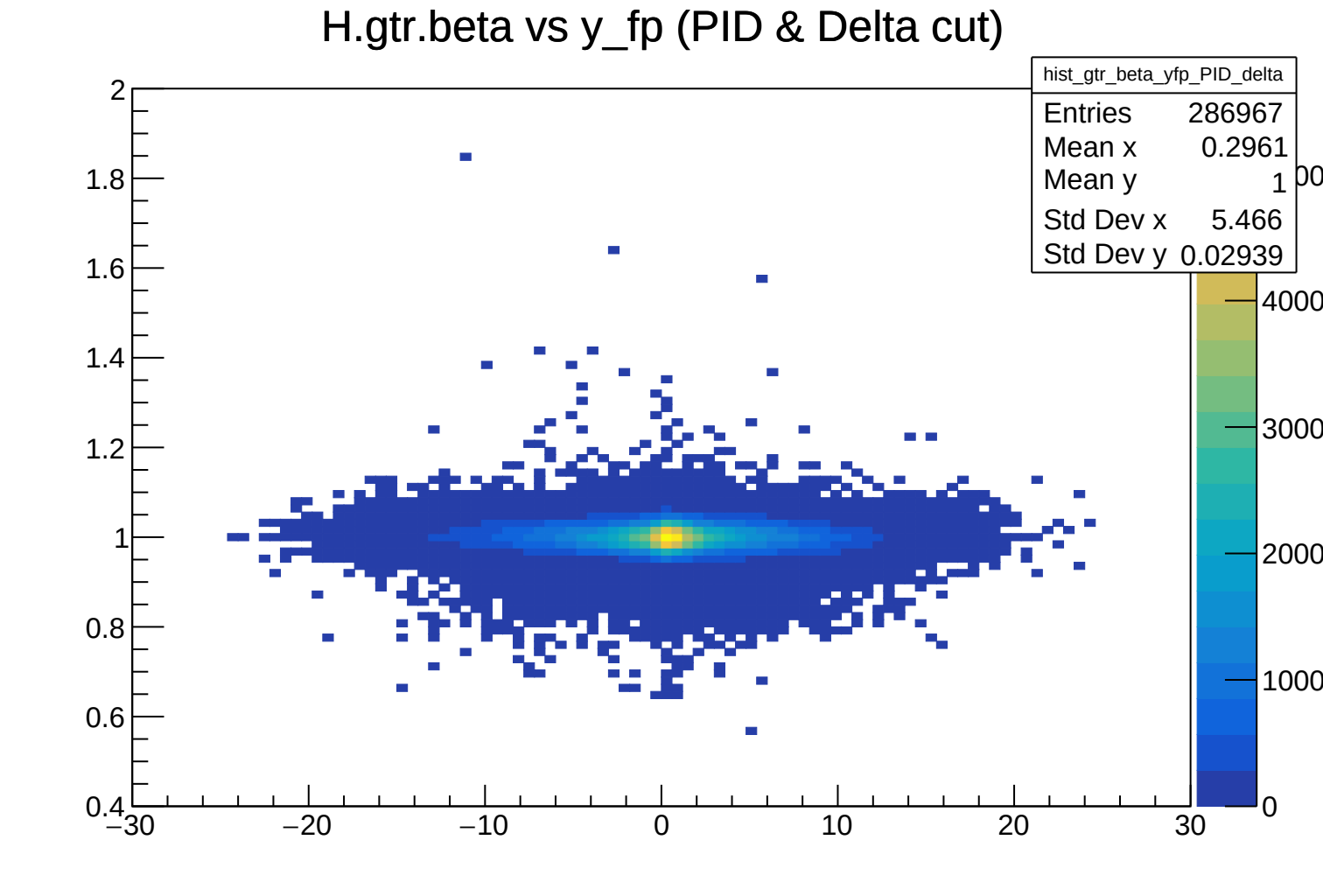

H.gtr.beta vs x_fp (PID cut)
hist_gtr_beta_xfp_PID
Entries 416444
Mean x −1.492
Mean y 1.001
Std Dev x 24.59
Std Dev y 0.03215
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−50
−40
−30
−20
−10
0
10
20
30
40
50
1000
800
600
400
200
0

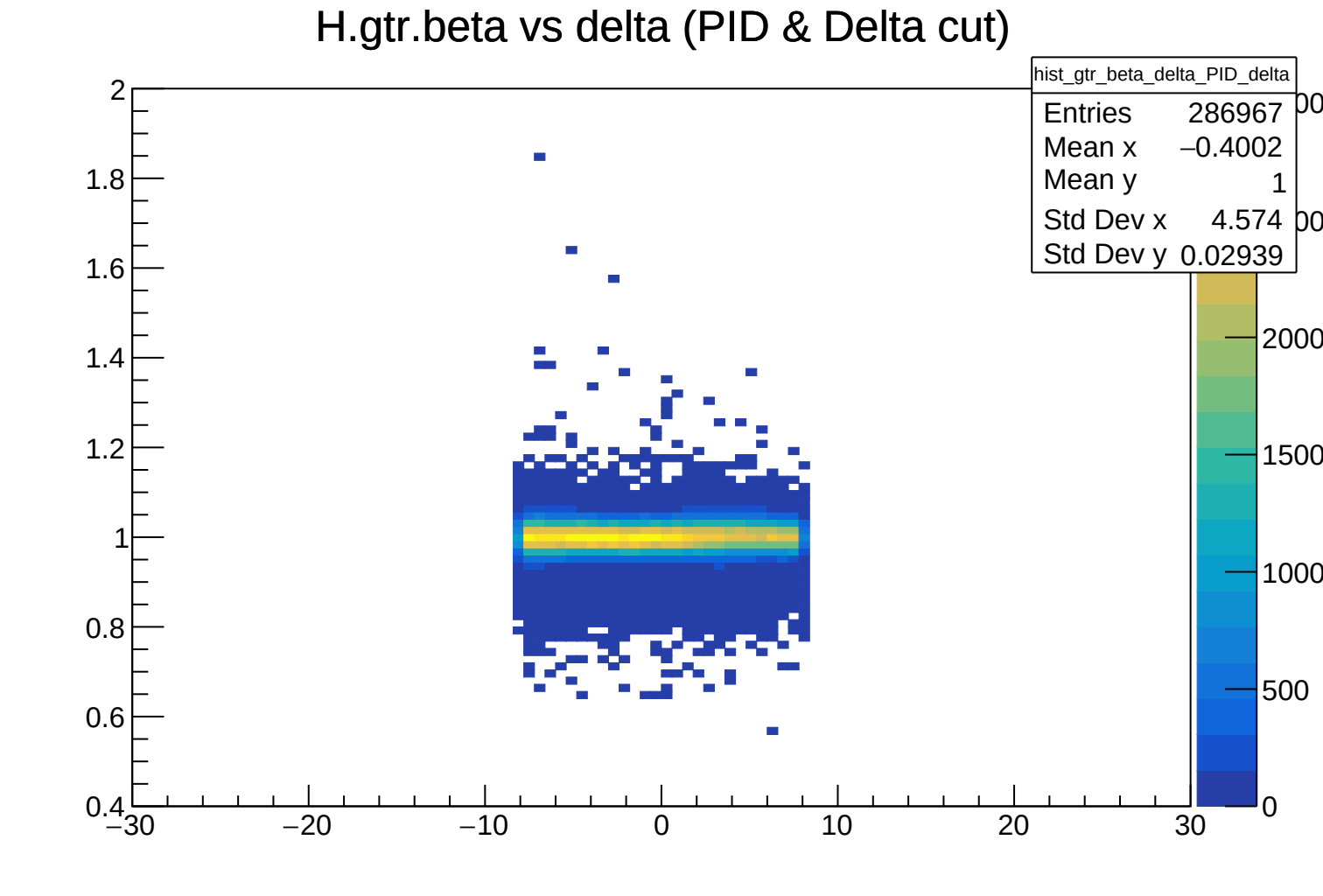

H.gtr.beta vs y_fp (PID cut)
hist_gtr_beta_yfp_PID
Entries 416444
Mean x 0.4897
Mean y 1.001
Std Dev x 7.752
Std Dev y 0.03215
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
4000
3000
2000
1000
0


H.gtr.beta vs delta (PID cut)
hist_gtr_beta_delta_PID
Entries 416444
Mean x –0.128
Mean y 1.001
Std Dev x 6.841
Std Dev y 0.03208
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 & Delta cut)
hist_yfp_xfp_PID_delta
Entries 286967
Mean x –1.606
Mean y 0.2957
Std Dev x 17.12
Std Dev y 5.467
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
1800
1600
1400
1200
1000
800
600
400
200
0


H.gtr.beta vs x_fp (PID & Delta cut)
hist_gtr_beta_xfp_PID_delta
Entries 286967
Mean x −1.603
Mean y 1
Std Dev x 17.12
Std Dev y 0.02939
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
1000
800
600
400
200
0


H.gtr.beta vs y_fp (PID & Delta cut)
hist_gtr_beta_yfp_PID_delta
Entries 286967
Mean x 0.2961
Mean y 1
Std Dev x 5.466
Std Dev y 0.02939
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
4000
3000
2000
1000
0


H.gtr.beta vs delta (PID & Delta cut)
hist_gtr_beta_delta_PID_delta
Entries 286967
Mean x −0.4002
Mean y 1
Std Dev x 4.574
Std Dev y 0.02939
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