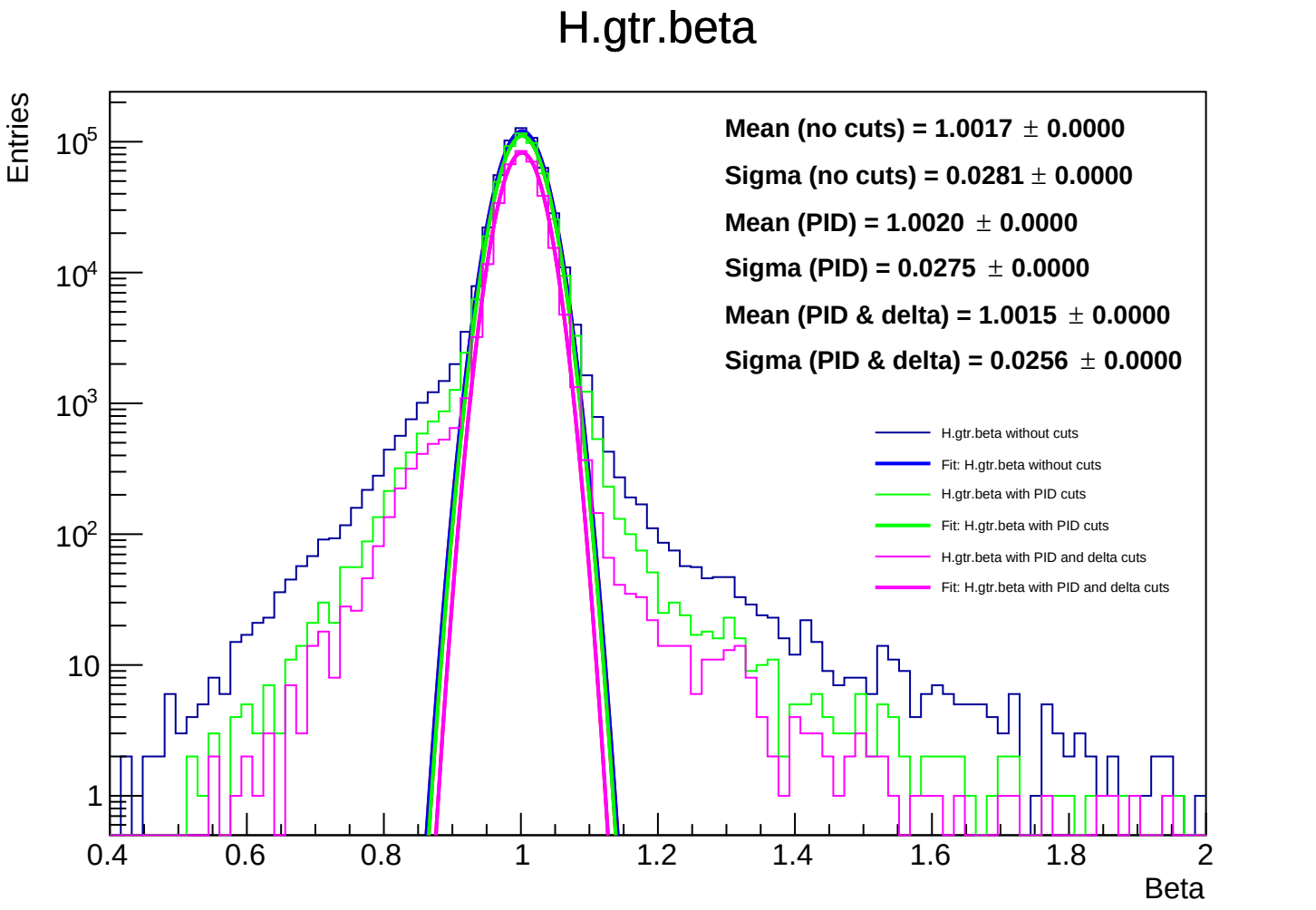
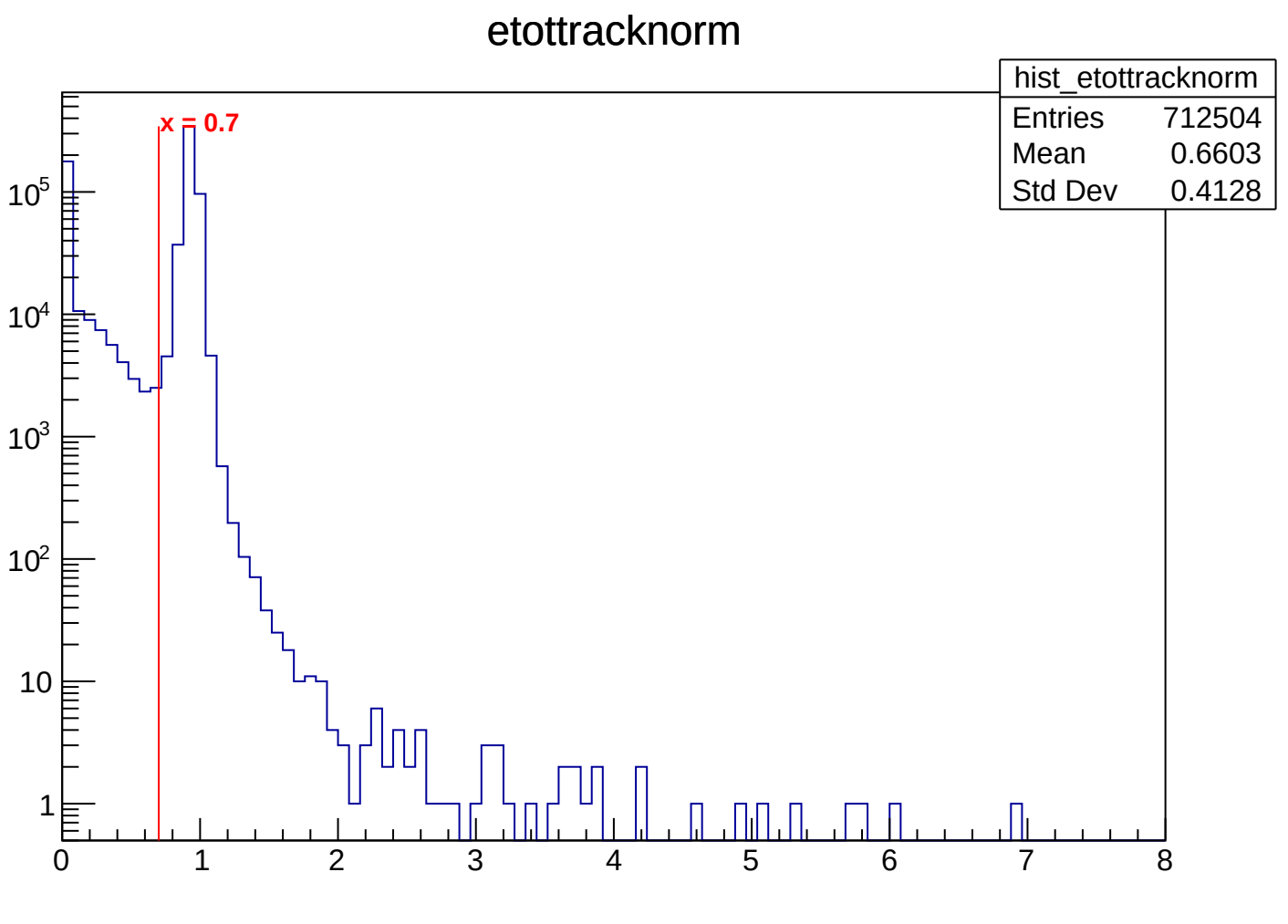
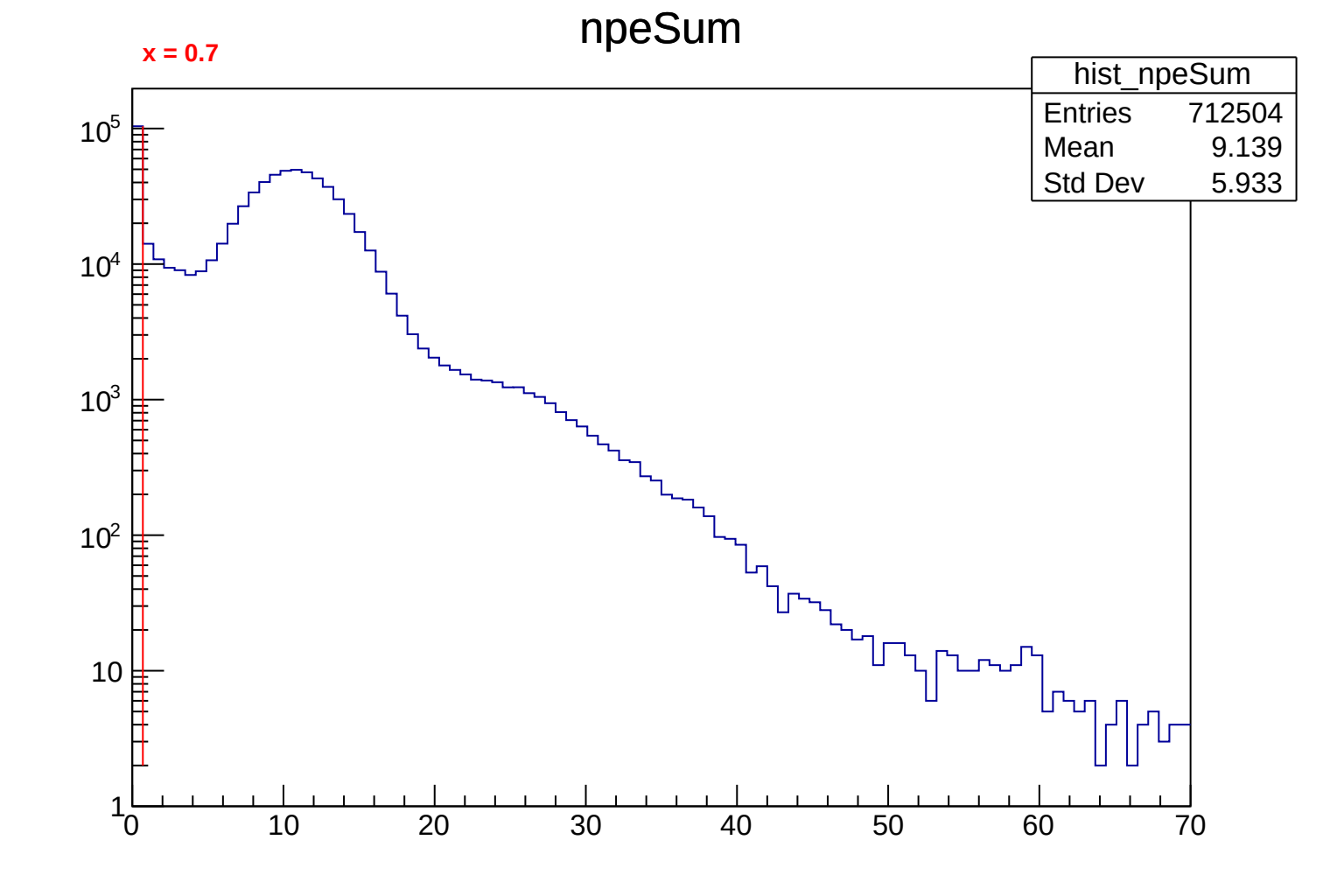
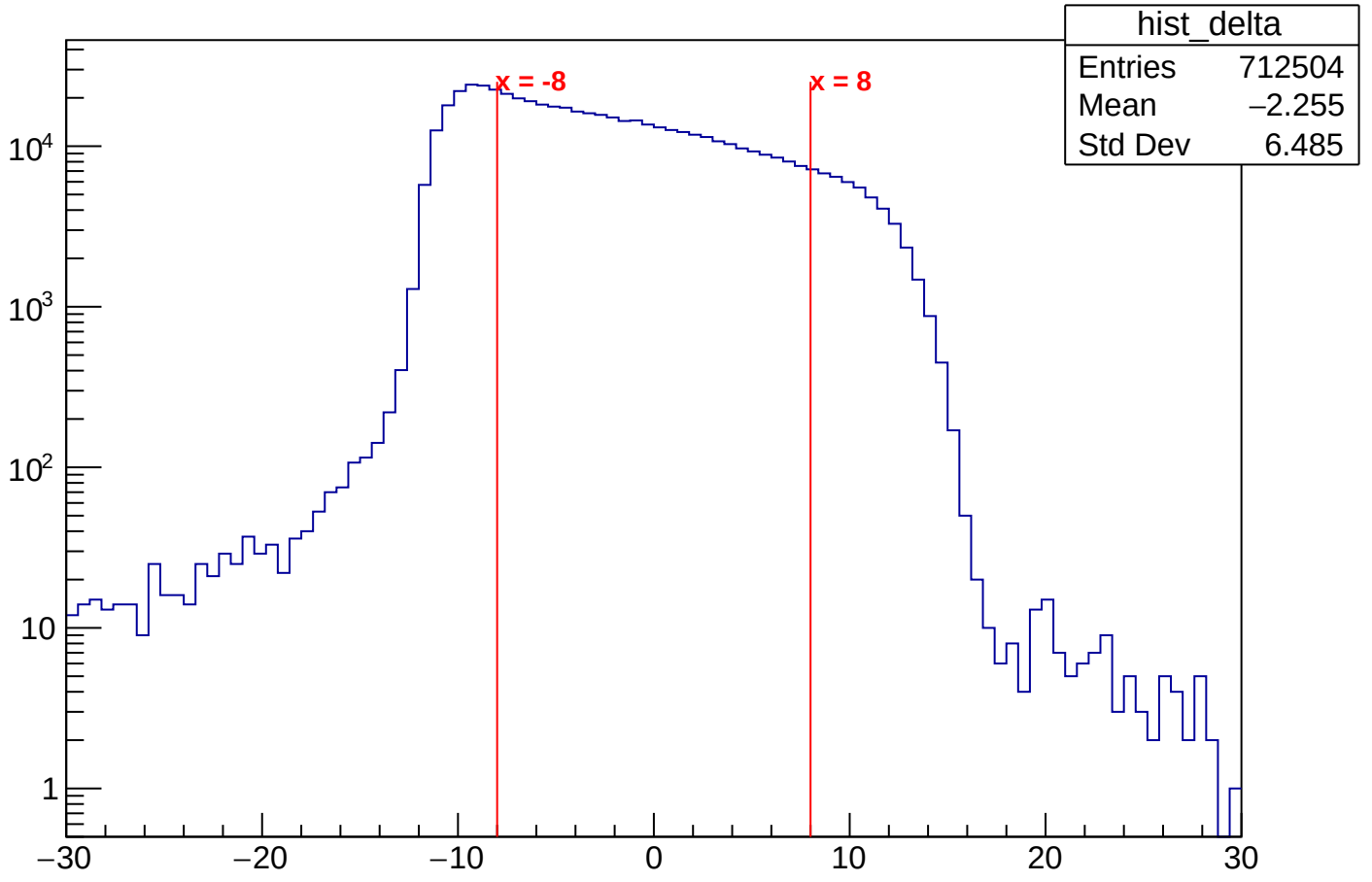
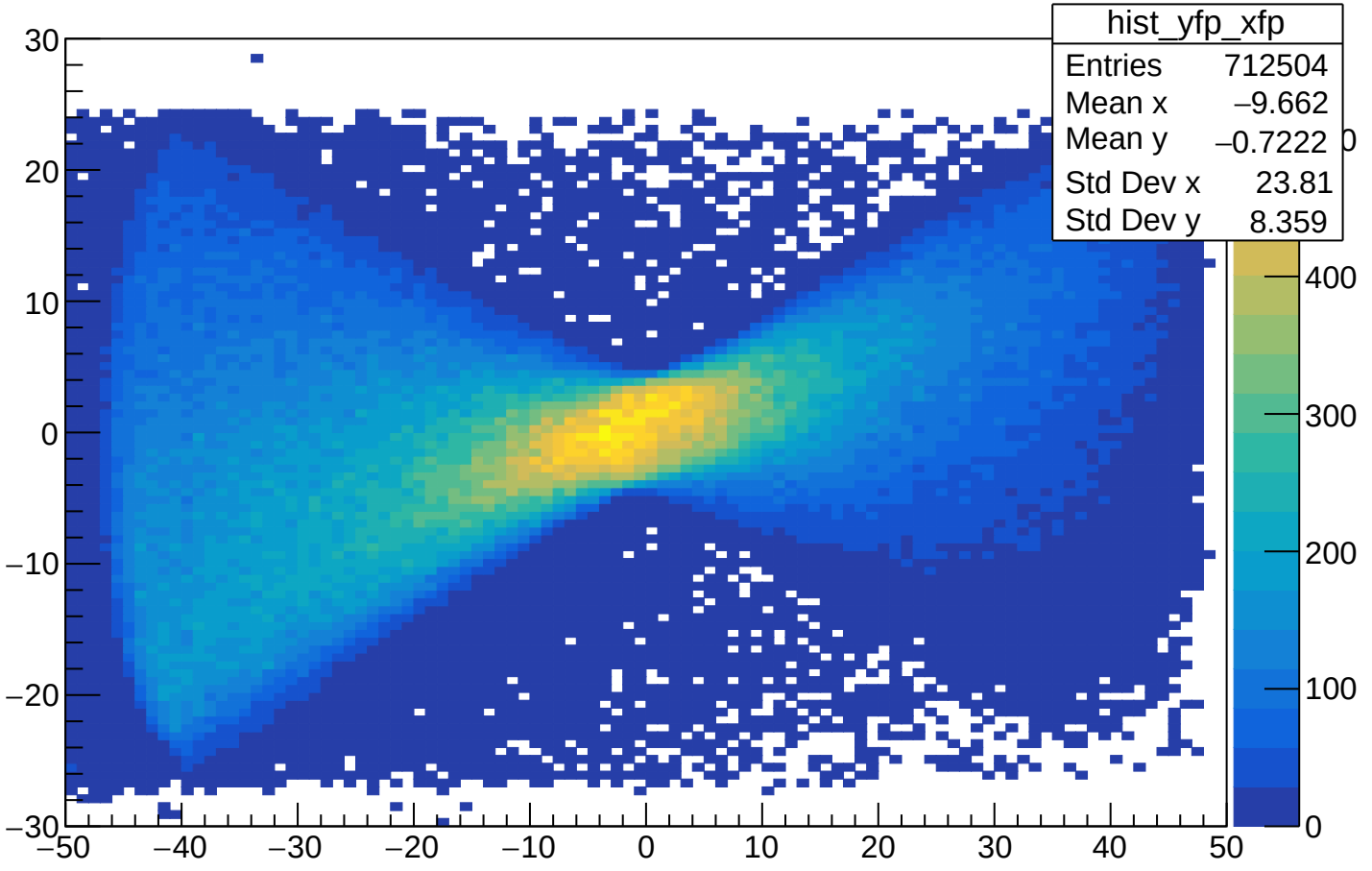
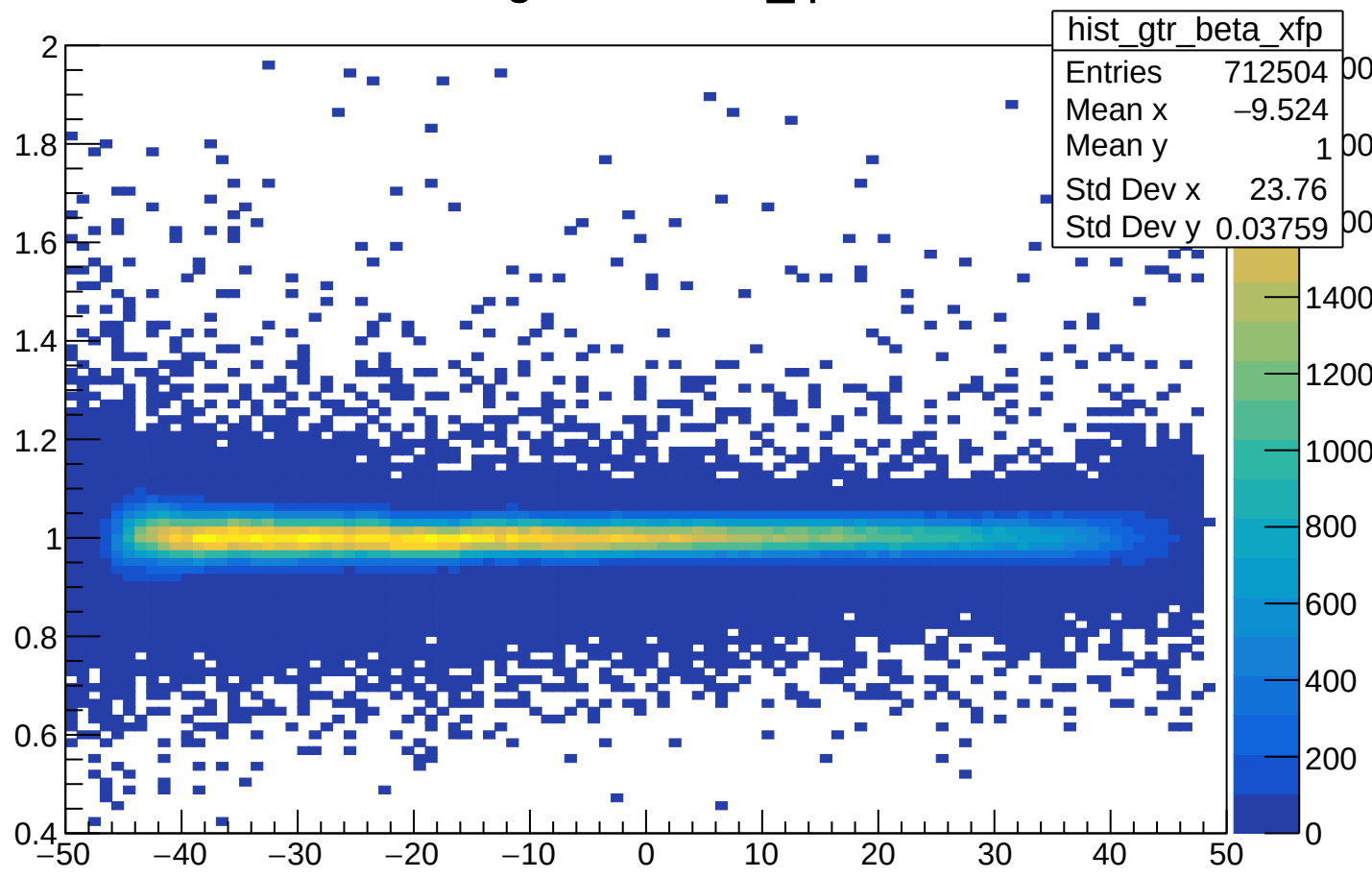

H.gtr.beta
Entries
Beta
Mean (no cuts) = 1.0017 ± 0.0000
Sigma (no cuts) = 0.0281 ± 0.0000
Mean (PID) = 1.0020 ± 0.0000
Sigma (PID) = 0.0275 ± 0.0000
Mean (PID & delta) = 1.0015 ± 0.0000
Sigma (PID & delta) = 0.0256 ± 0.0000
H.gtr.beta without cuts
Fit: H.gtr.beta without cuts
H.gtr.beta with PID cuts
Fit: H.gtr.beta with PID cuts
H.gtr.beta with PID and delta cuts
Fit: H.gtr.beta with PID and delta cuts

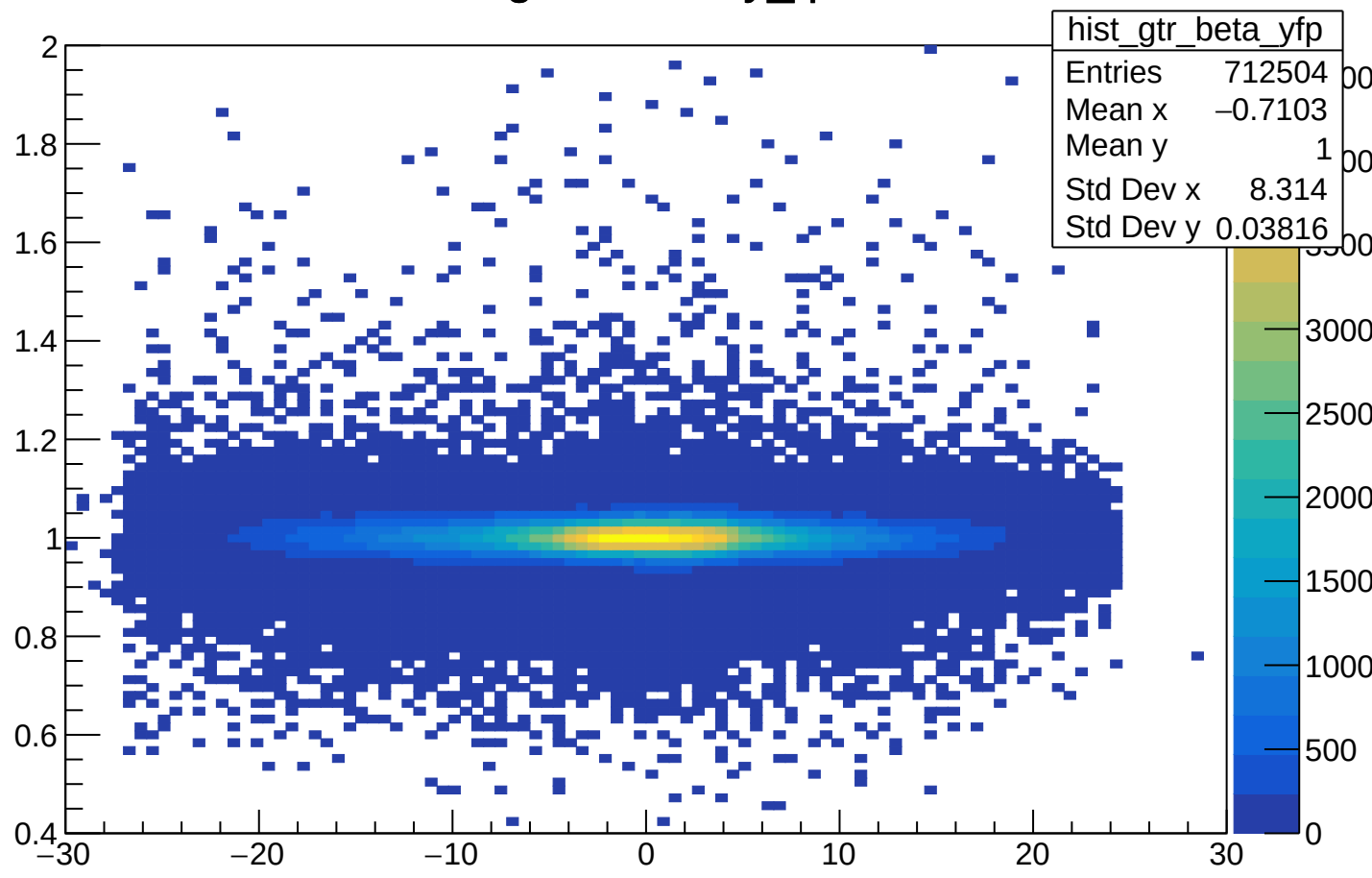

etottracknorm
hist_etottracknorm
Entries 712504
Mean 0.6603
Std Dev 0.4128
x = 0.7
10^5
10^4
10^3
10^2
10
1
0
1
2
3
4
5
6
7
8

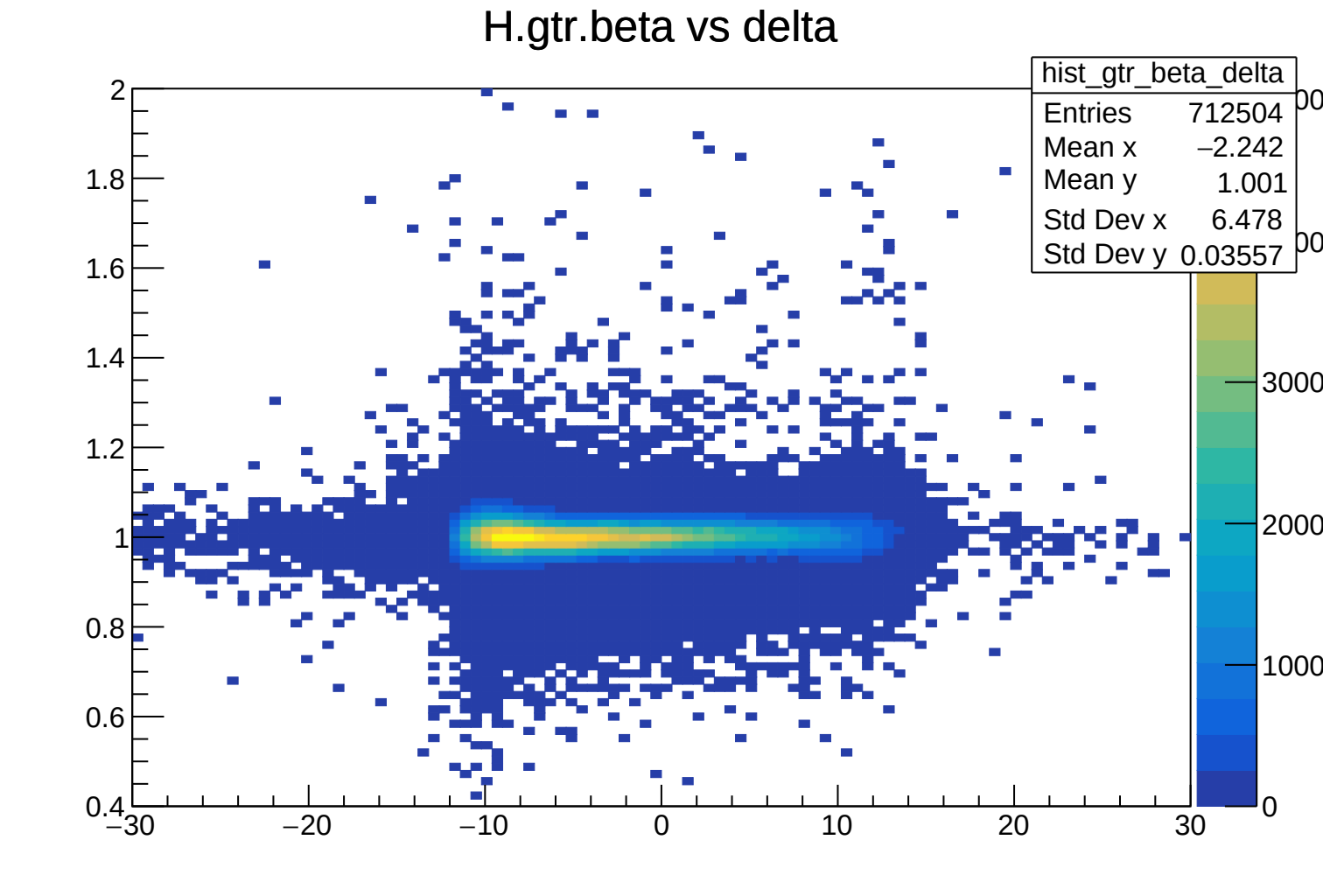

npeSum
x = 0.7
hist_npeSum
Entries 712504
Mean 9.139
Std Dev 5.933
10^5
10^4
10^3
10^2
10
1
0
10
20
30
40
50
60
70

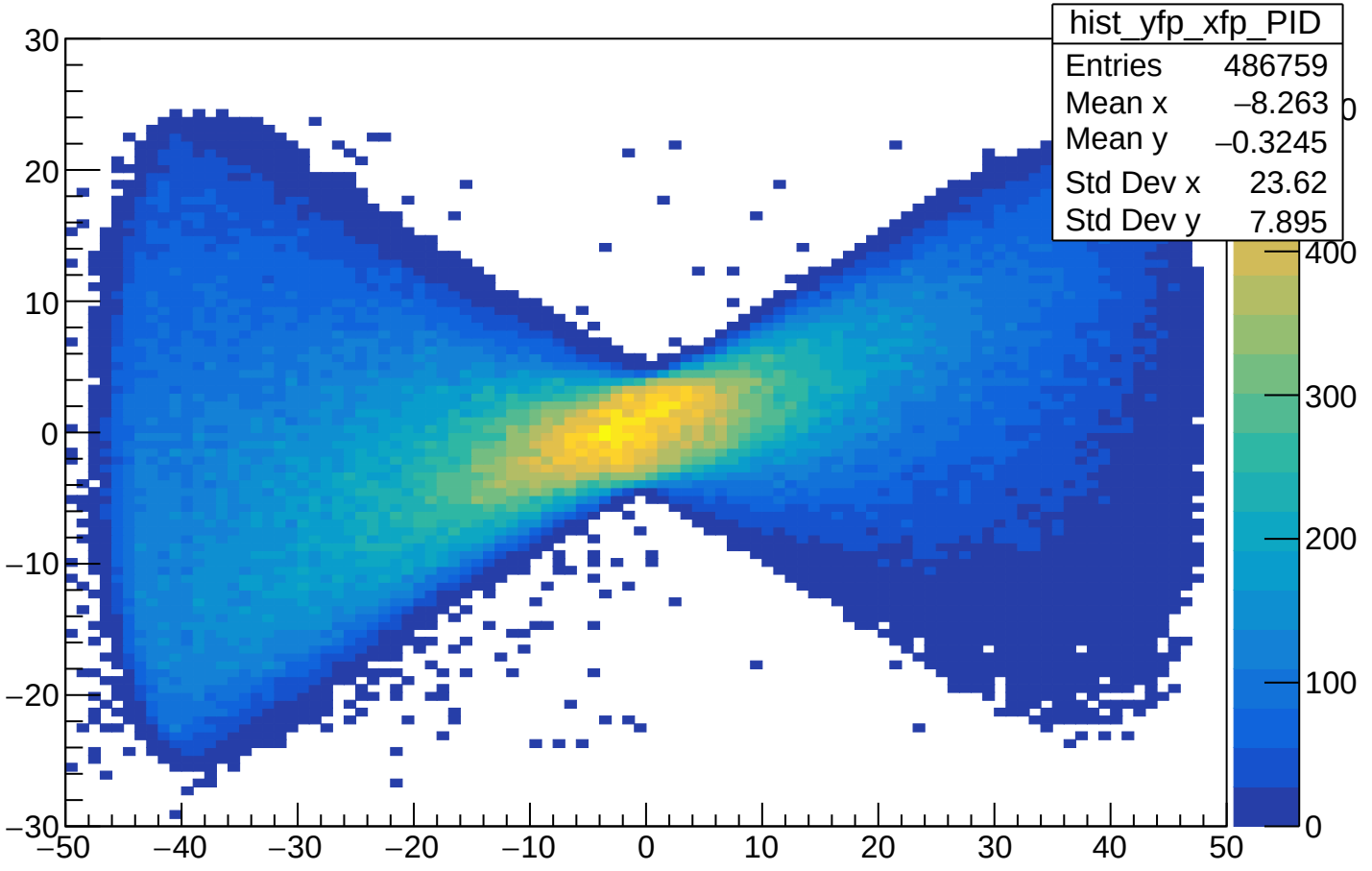

delta
hist_delta
Entries 712504
Mean −2.255
Std Dev 6.485
x = -8
x = 8
10^4
10^3
10^2
10
1
−30
−20
−10
0
10
20
30

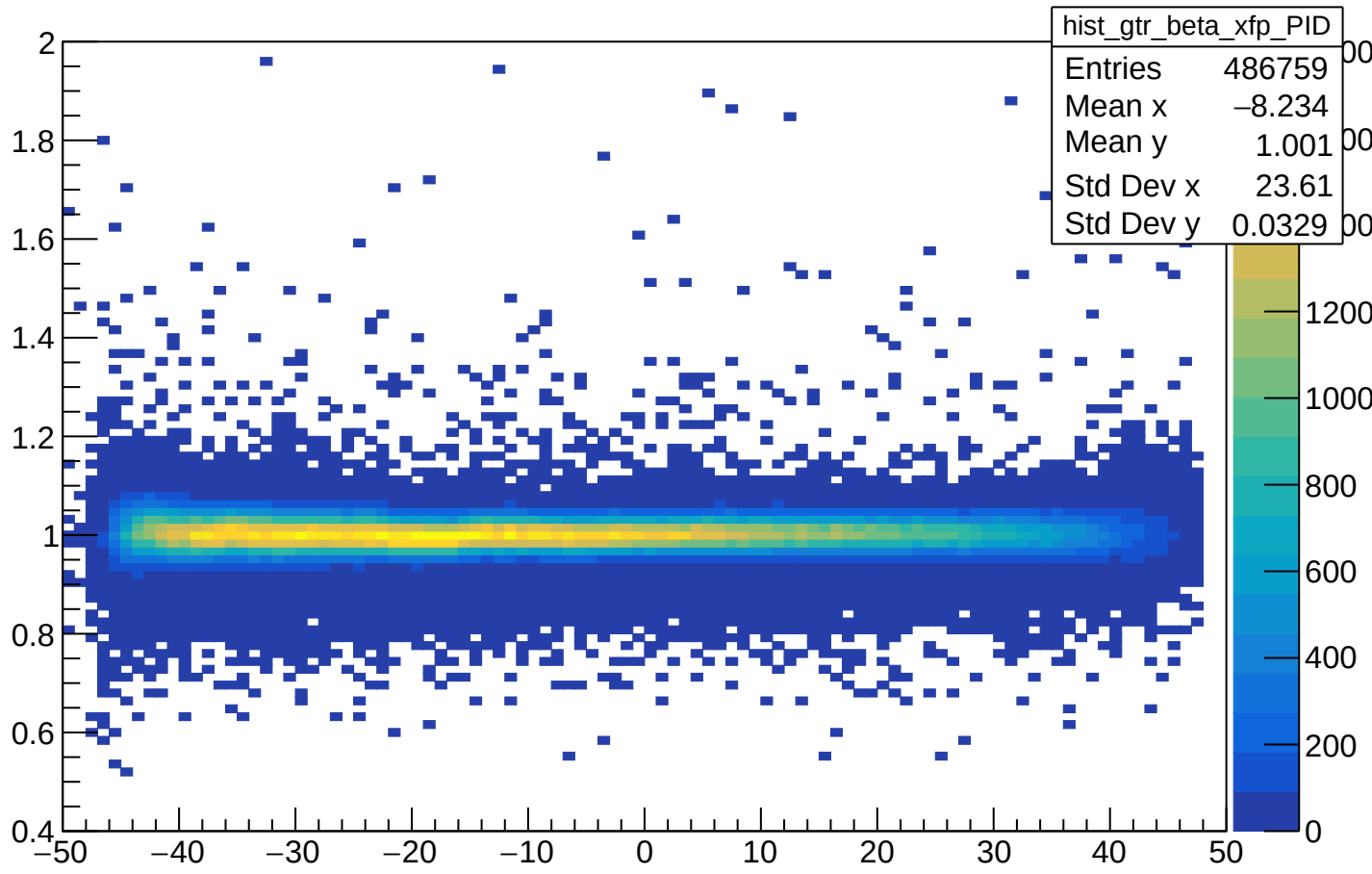

focal plane
hist_yfp_xfp
Entries 712504
Mean x −9.662
Mean y −0.7222
Std Dev x 23.81
Std Dev y 8.359
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
400
300
200
100
0

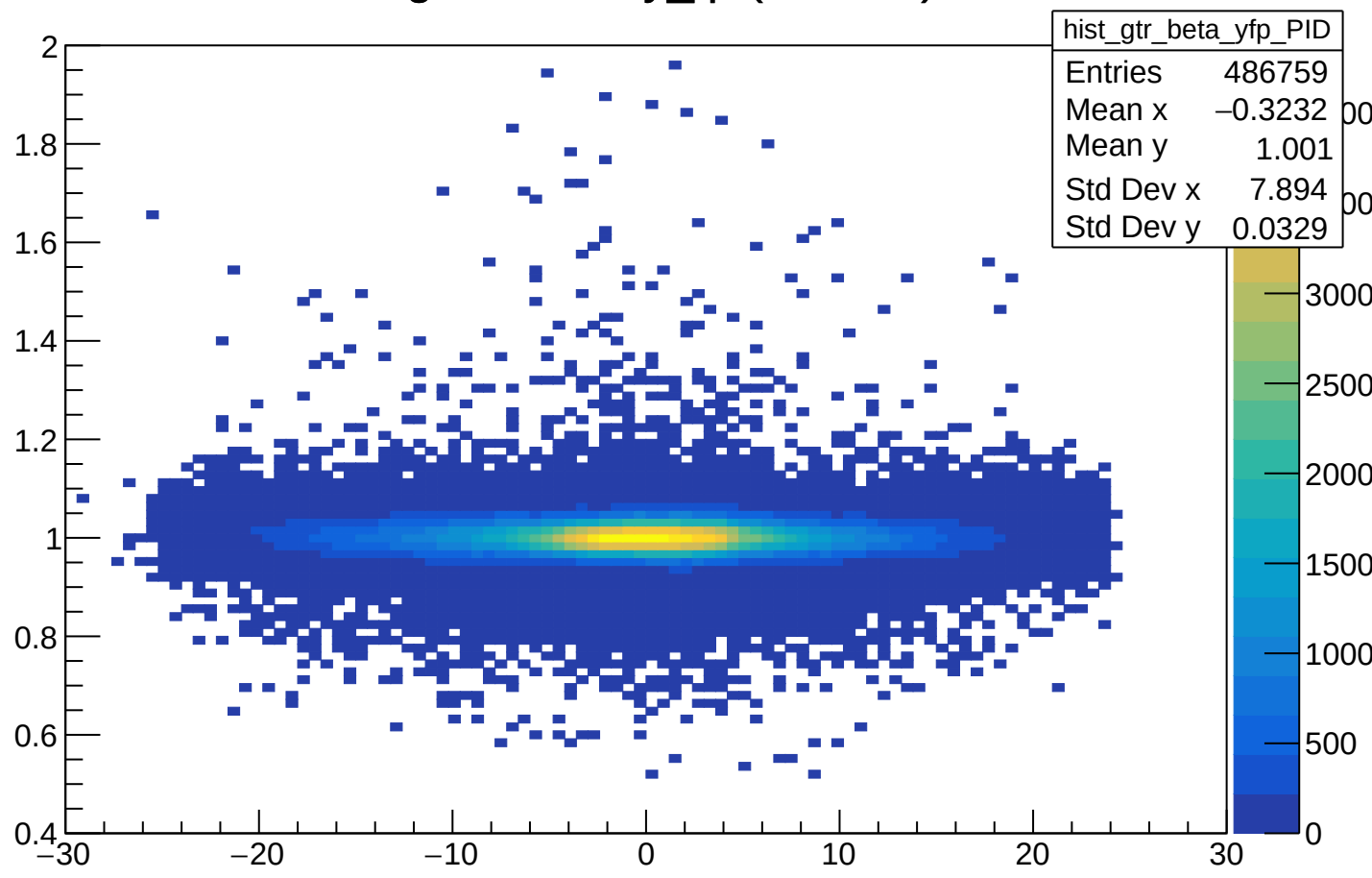

H.gtr.beta vs x_fp
hist_gtr_beta_xfp
Entries 712504
Mean x −9.524
Mean y 1
Std Dev x 23.76
Std Dev y 0.03759
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−50
−40
−30
−20
−10
0
10
20
30
40
50
1400
1200
1000
800
600
400
200
0

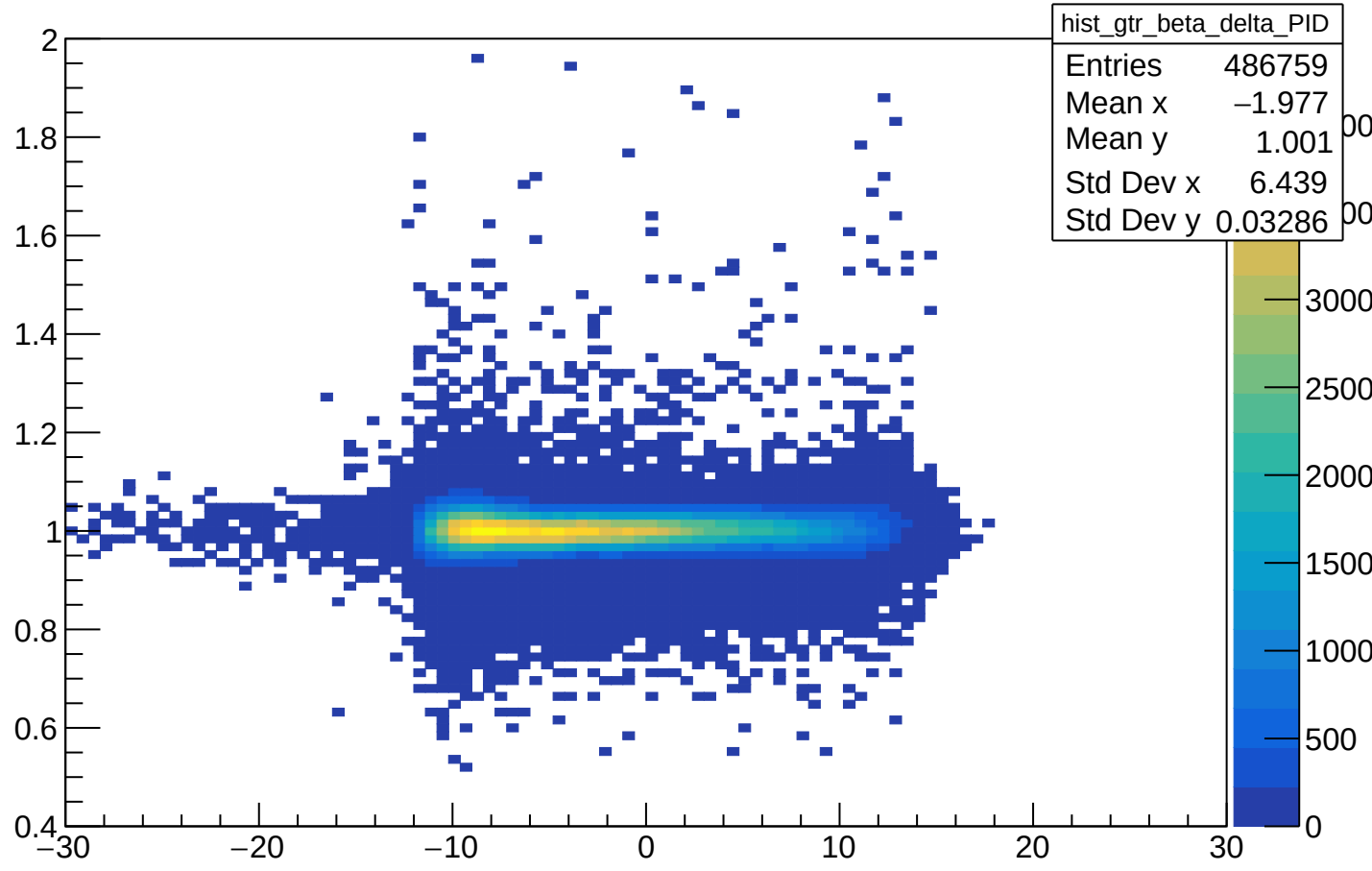

H.gtr.beta vs y_fp
hist_gtr_beta_yfp
Entries 712504
Mean x −0.7103
Mean y 1
Std Dev x 8.314
Std Dev y 0.03816
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
3000
2500
2000
1500
1000
500
0

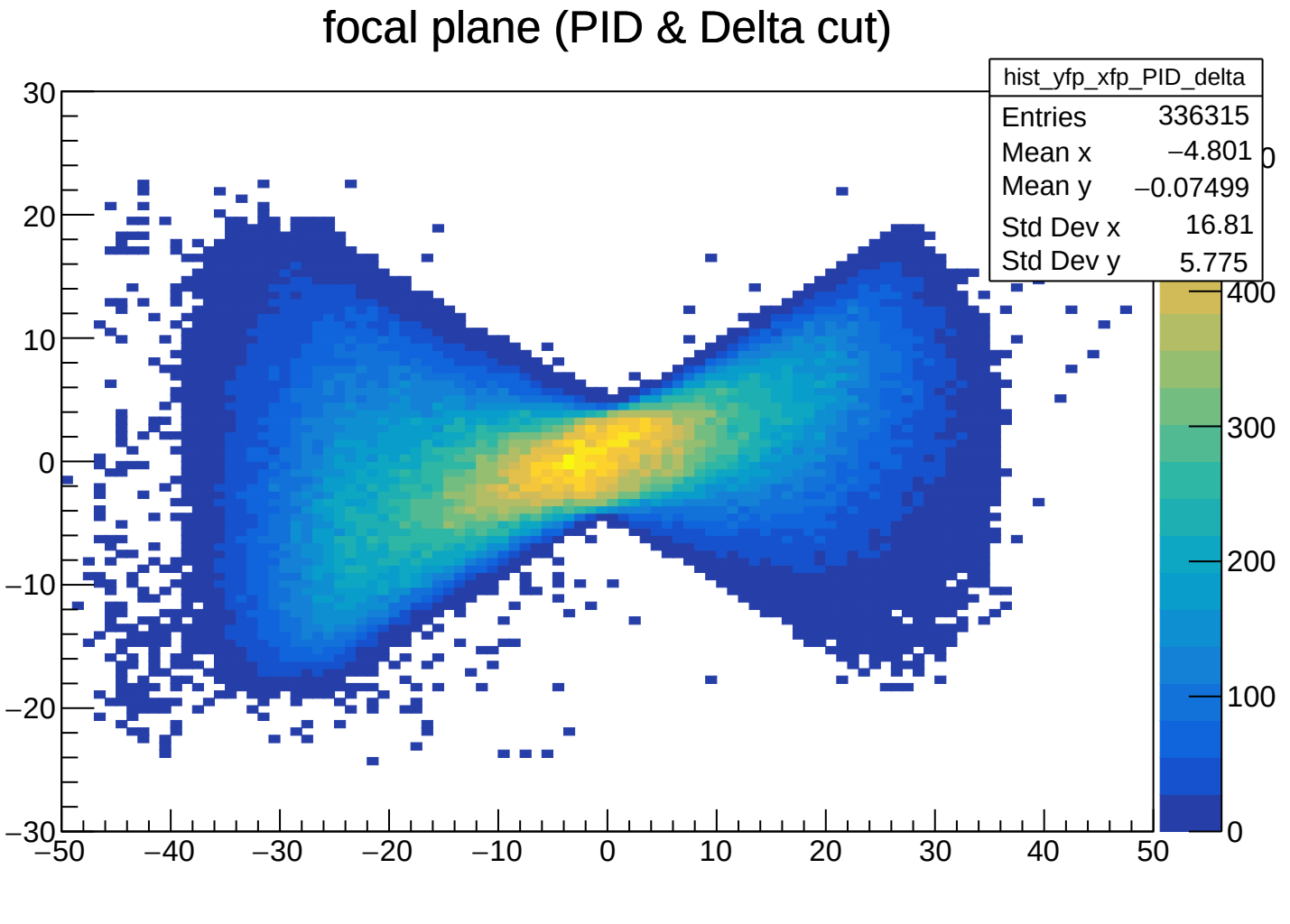

H.gtr.beta vs delta
hist_gtr_beta_delta
Entries 712504
Mean x −2.242
Mean y 1.001
Std Dev x 6.478
Std Dev y 0.03557
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
3000
2000
1000
0

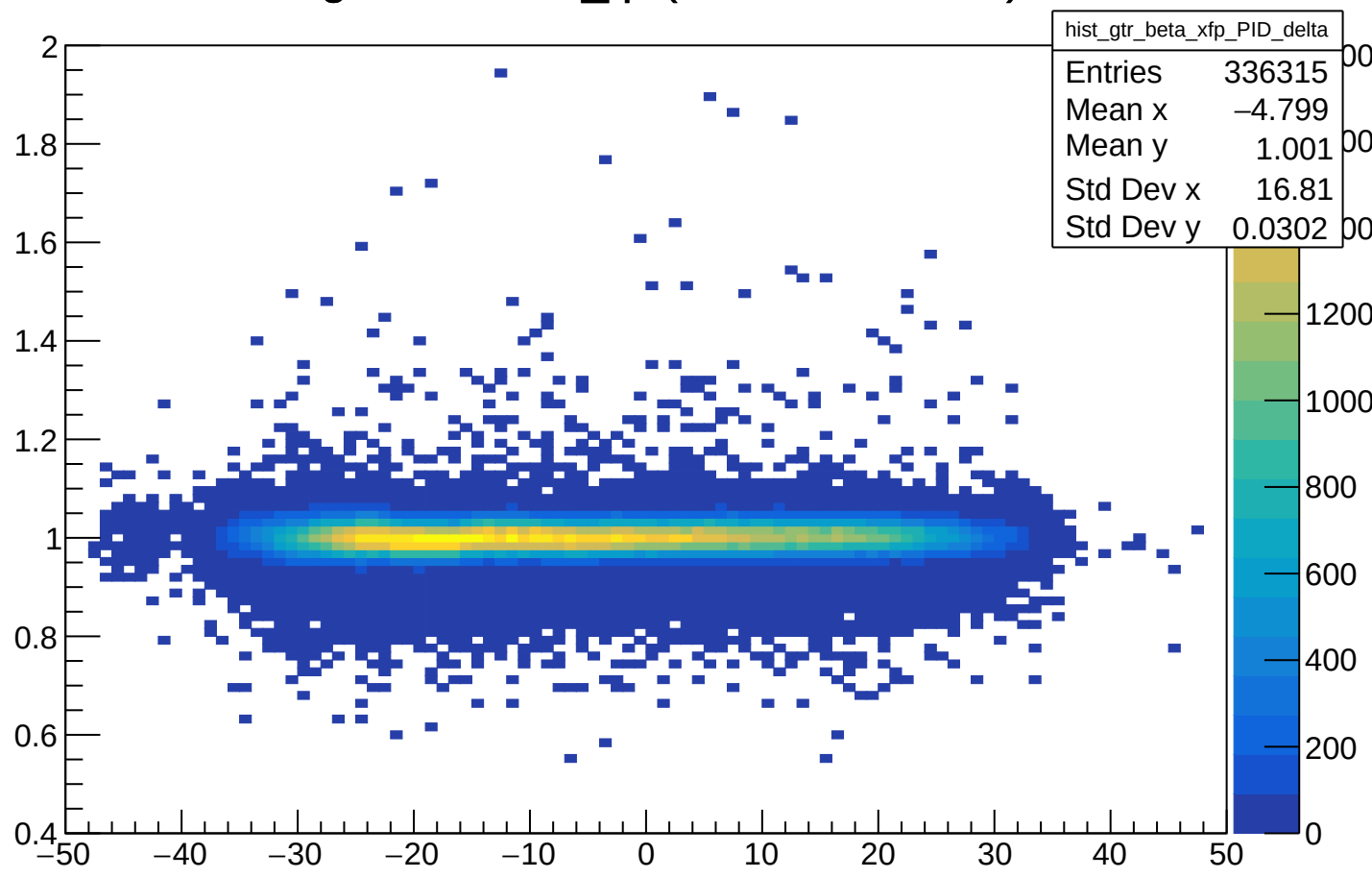

focal plane (PID cut)
hist_yfp_xfp_PID
Entries 486759
Mean x −8.263
Mean y −0.3245
Std Dev x 23.62
Std Dev y 7.895
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
400
300
200
100
0

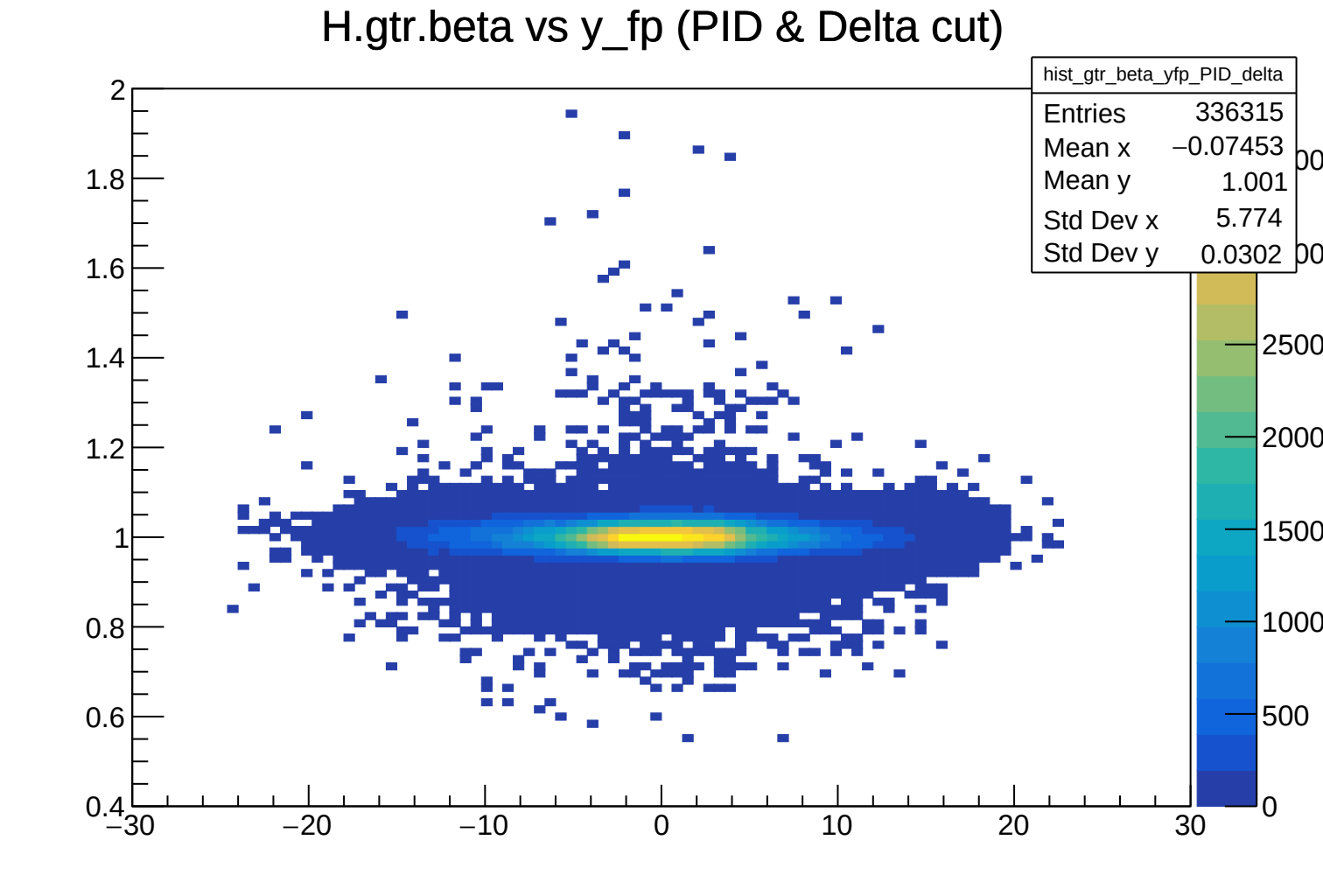

H.gtr.beta vs x_fp (PID cut)
hist_gtr_beta_xfp_PID
Entries 486759
Mean x −8.234
Mean y 1.001
Std Dev x 23.61
Std Dev y 0.0329
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−50
−40
−30
−20
−10
0
10
20
30
40
50
1200
1000
800
600
400
200
0

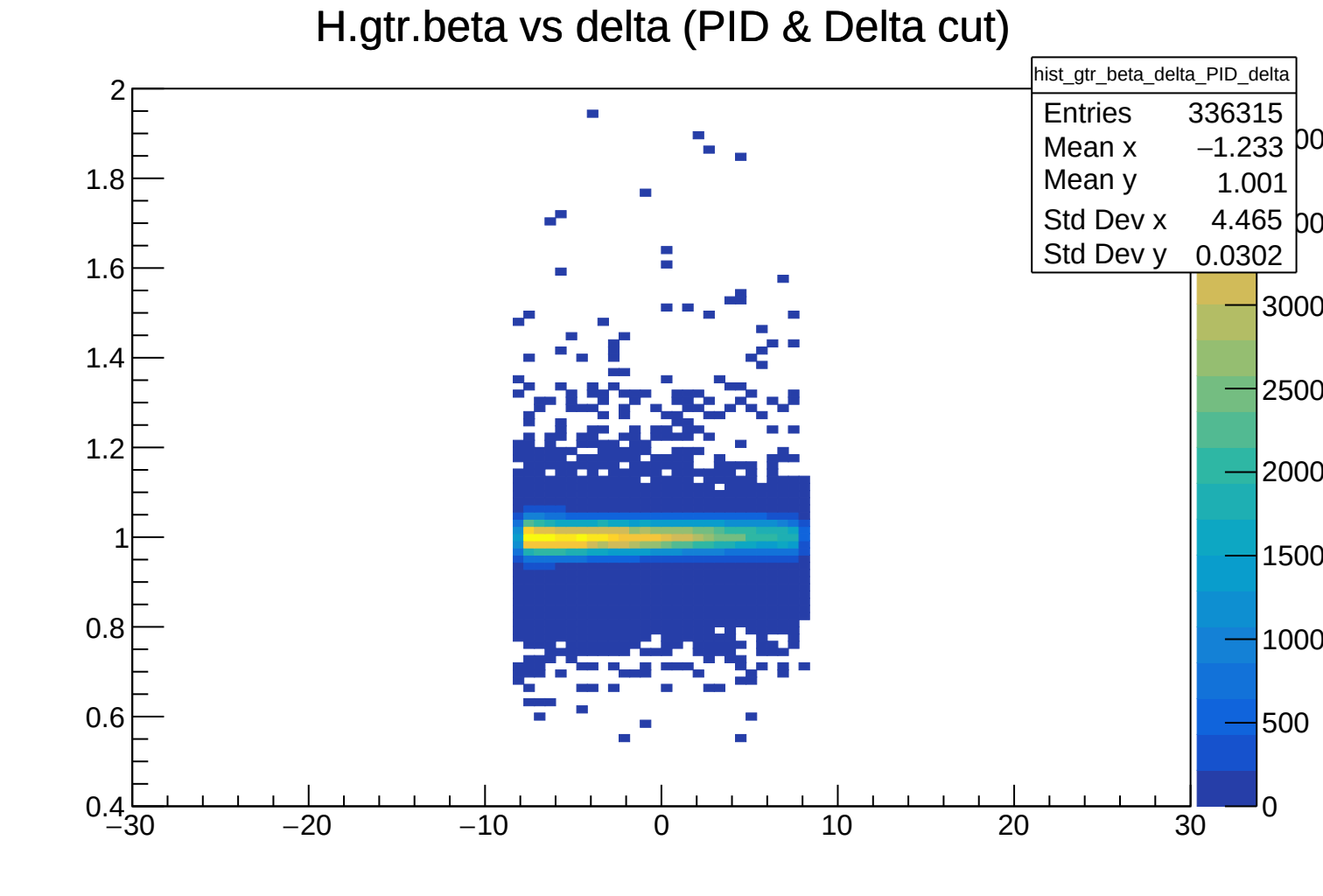

H.gtr.beta vs y_fp (PID cut)
hist_gtr_beta_yfp_PID
Entries 486759
Mean x −0.3232
Mean y 1.001
Std Dev x 7.894
Std Dev y 0.0329
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
3000
2500
2000
1500
1000
500
0


H.gtr.beta vs delta (PID cut)
hist_gtr_beta_delta_PID
Entries 486759
Mean x –1.977
Mean y 1.001
Std Dev x 6.439
Std Dev y 0.03286
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
–30
–20
–10
0
10
20
30
3000
2500
2000
1500
1000
500
0


focal plane (PID & Delta cut)
hist_yfp_xfp_PID_delta
Entries 336315
Mean x −4.801
Mean y −0.07499
Std Dev x 16.81
Std Dev y 5.775
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
400
300
200
100
0


H.gtr.beta vs x_fp (PID & Delta cut)
hist_gtr_beta_xfp_PID_delta
Entries 336315
Mean x –4.799
Mean y 1.001
Std Dev x 16.81
Std Dev y 0.0302
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
1200
1000
800
600
400
200
0


H.gtr.beta vs y_fp (PID & Delta cut)
hist_gtr_beta_yfp_PID_delta
Entries 336315
Mean x −0.07453
Mean y 1.001
Std Dev x 5.774
Std Dev y 0.0302
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 (PID & Delta cut)
hist_gtr_beta_delta_PID_delta
Entries 336315
Mean x −1.233
Mean y 1.001
Std Dev x 4.465
Std Dev y 0.0302
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
3000
2500
2000
1500
1000
500
0