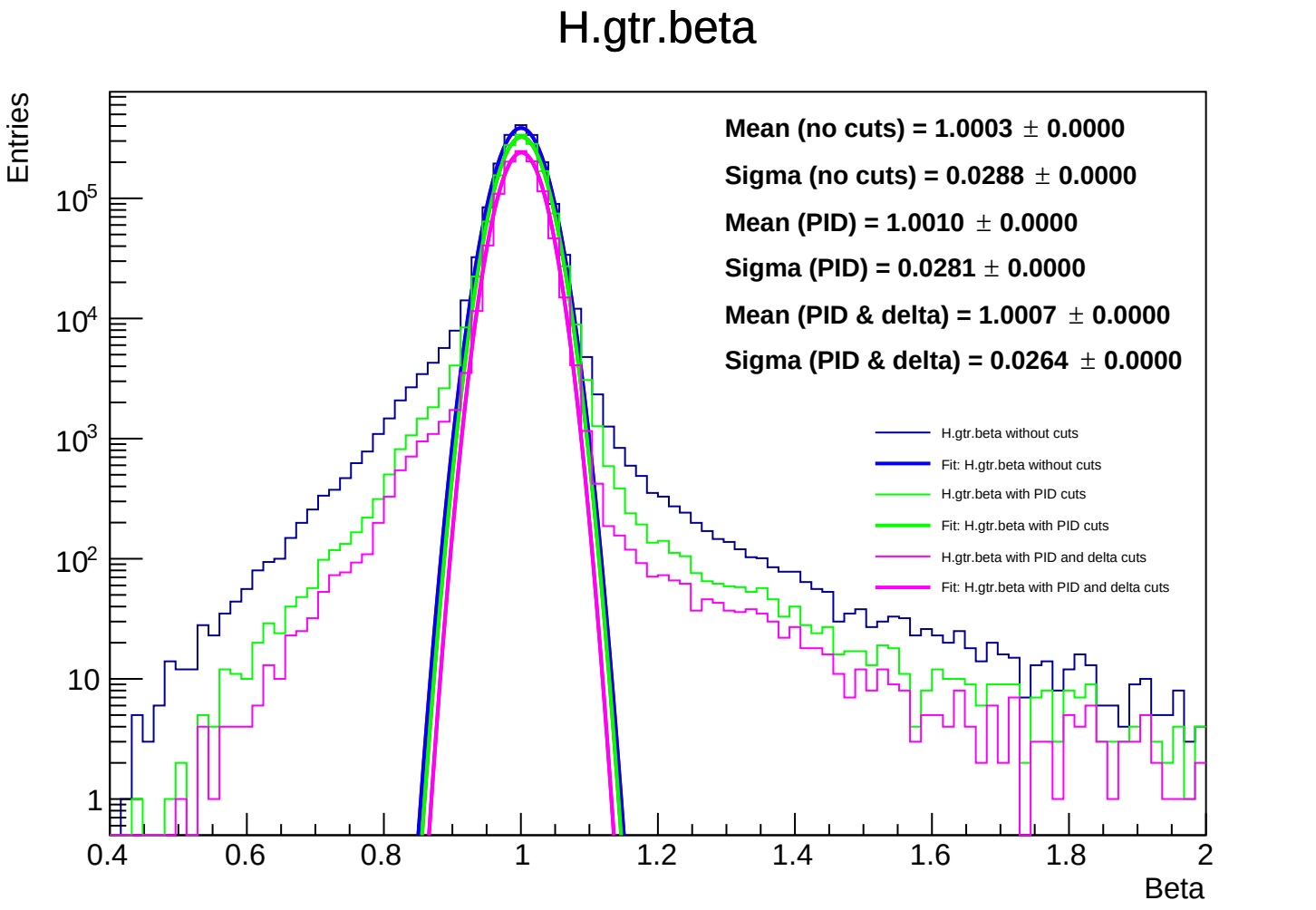
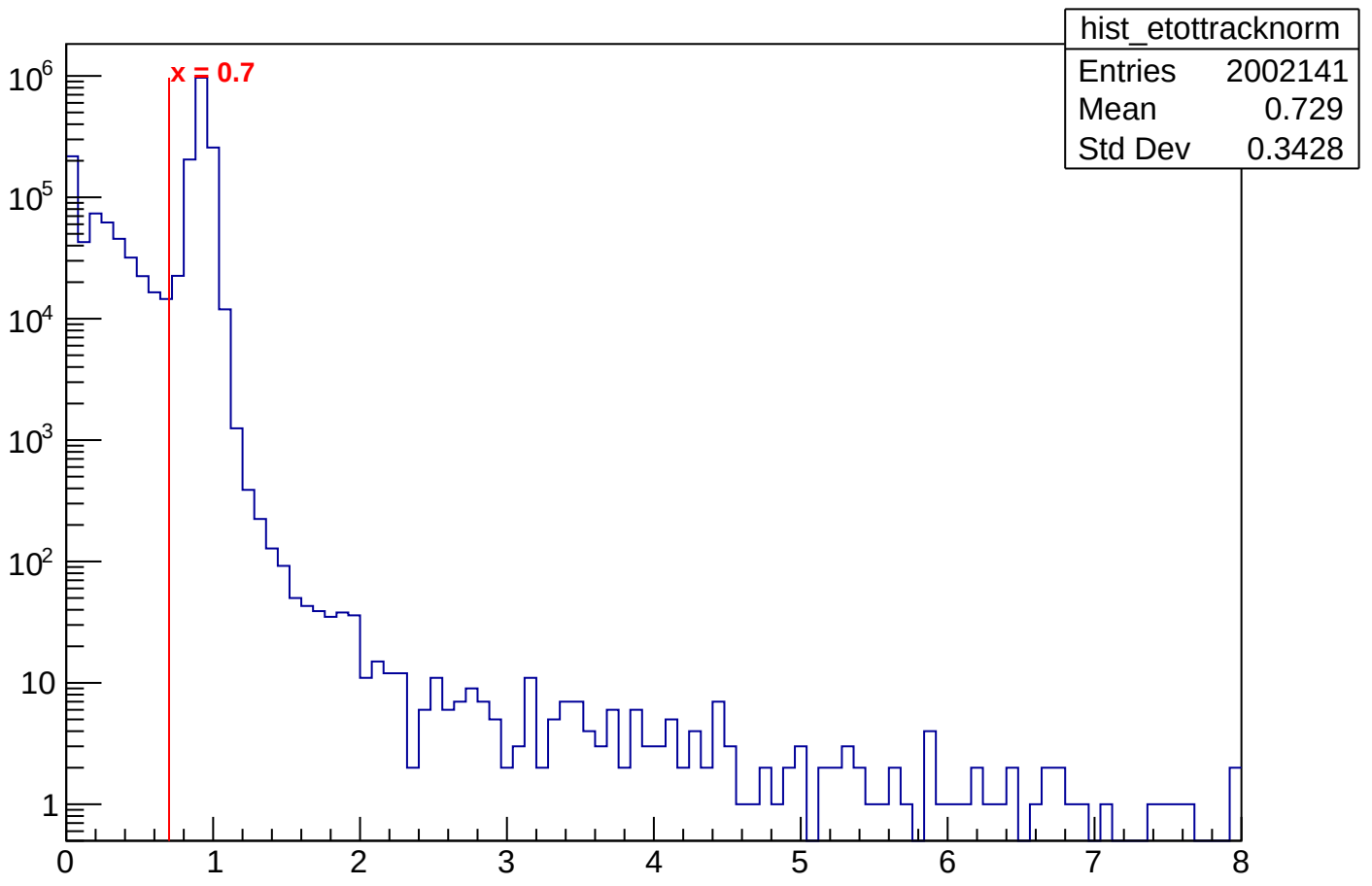
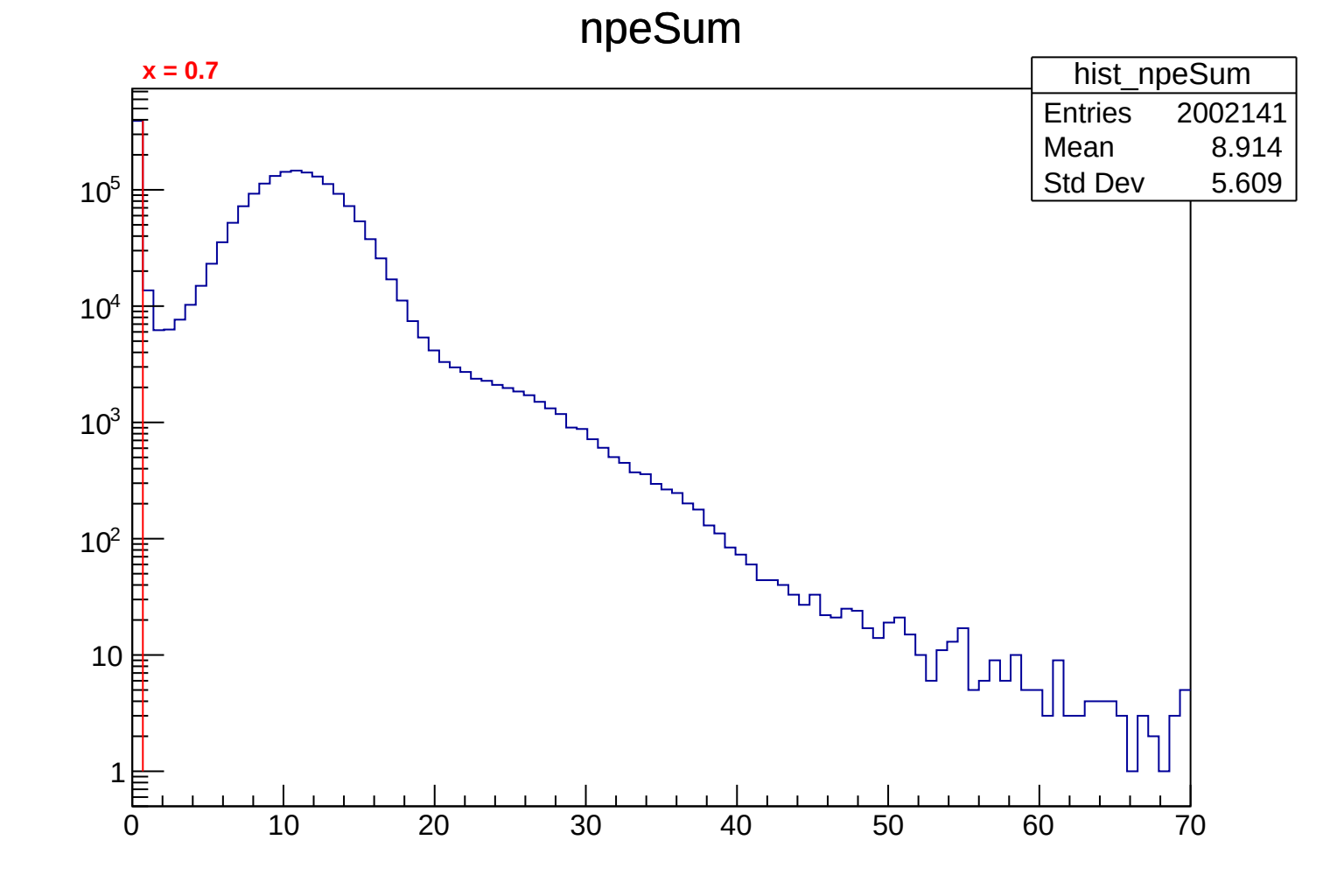
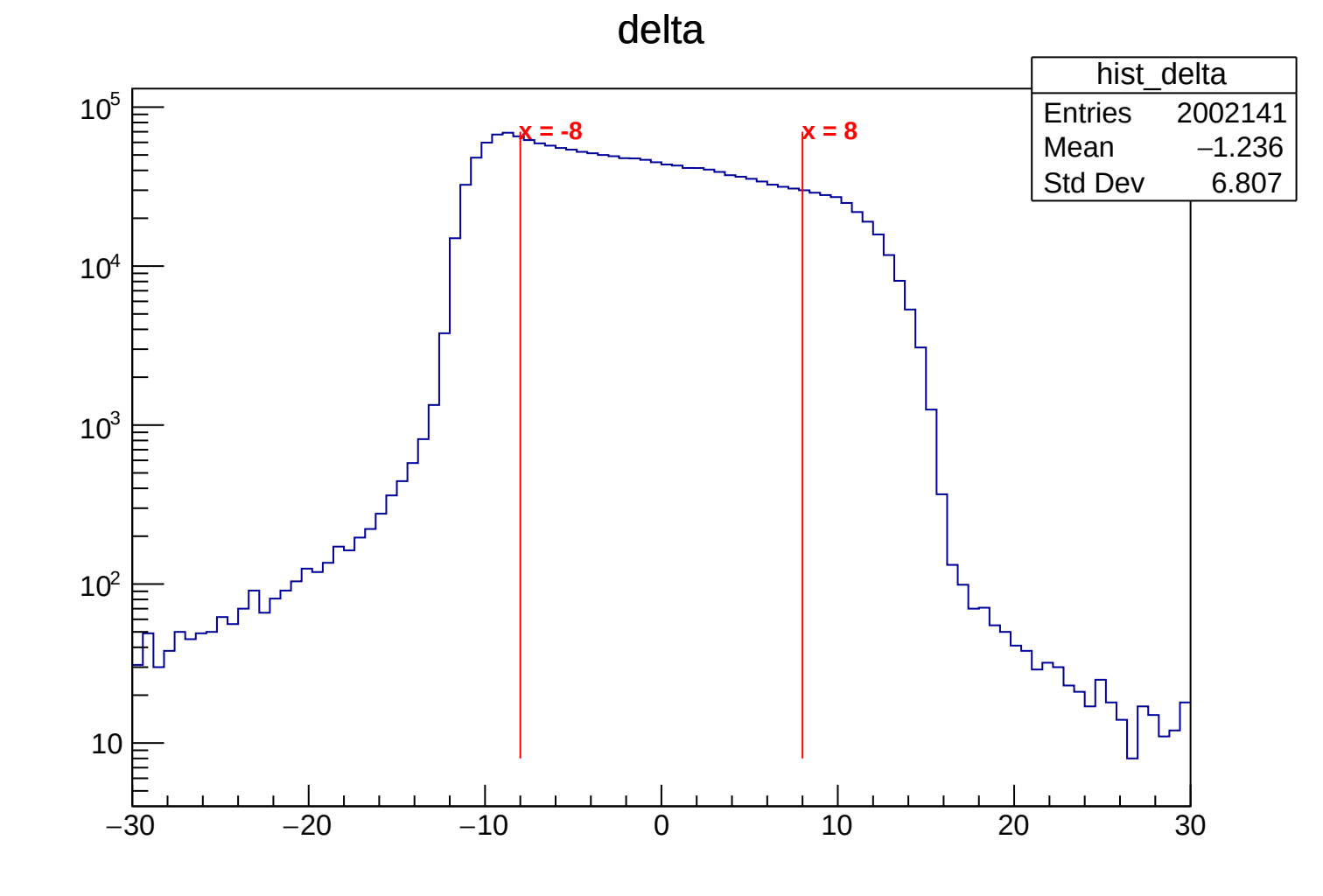
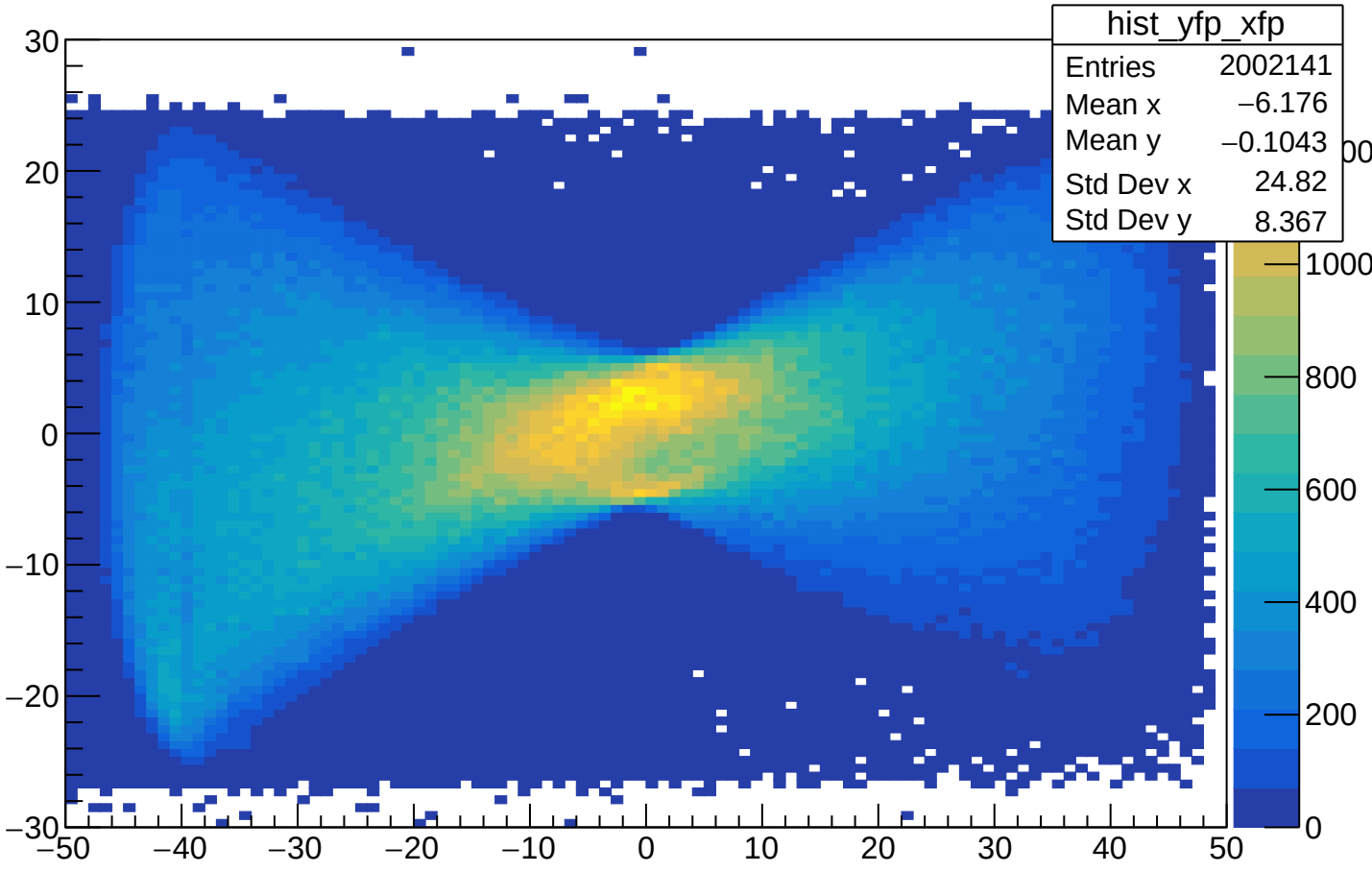
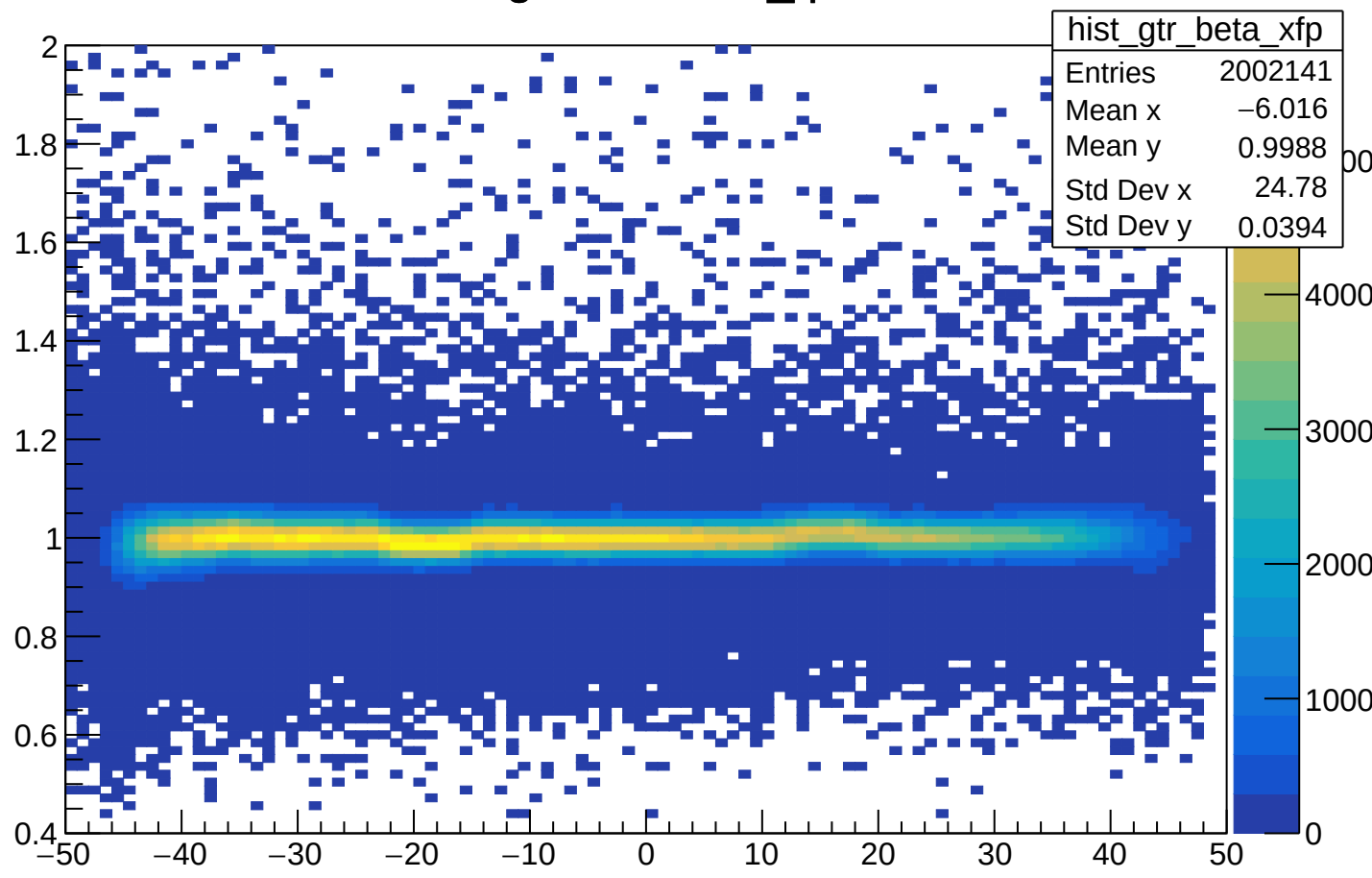

H.gtr.beta
Entries
Beta
Mean (no cuts) = 1.0003 ± 0.0000
Sigma (no cuts) = 0.0288 ± 0.0000
Mean (PID) = 1.0010 ± 0.0000
Sigma (PID) = 0.0281 ± 0.0000
Mean (PID & delta) = 1.0007 ± 0.0000
Sigma (PID & delta) = 0.0264 ± 0.0000
H.gtr.beta without cuts
Fit: H.gtr.beta without cuts
H.gtr.beta with PID cuts
Fit: H.gtr.beta with PID cuts
H.gtr.beta with PID and delta cuts
Fit: H.gtr.beta with PID and delta cuts

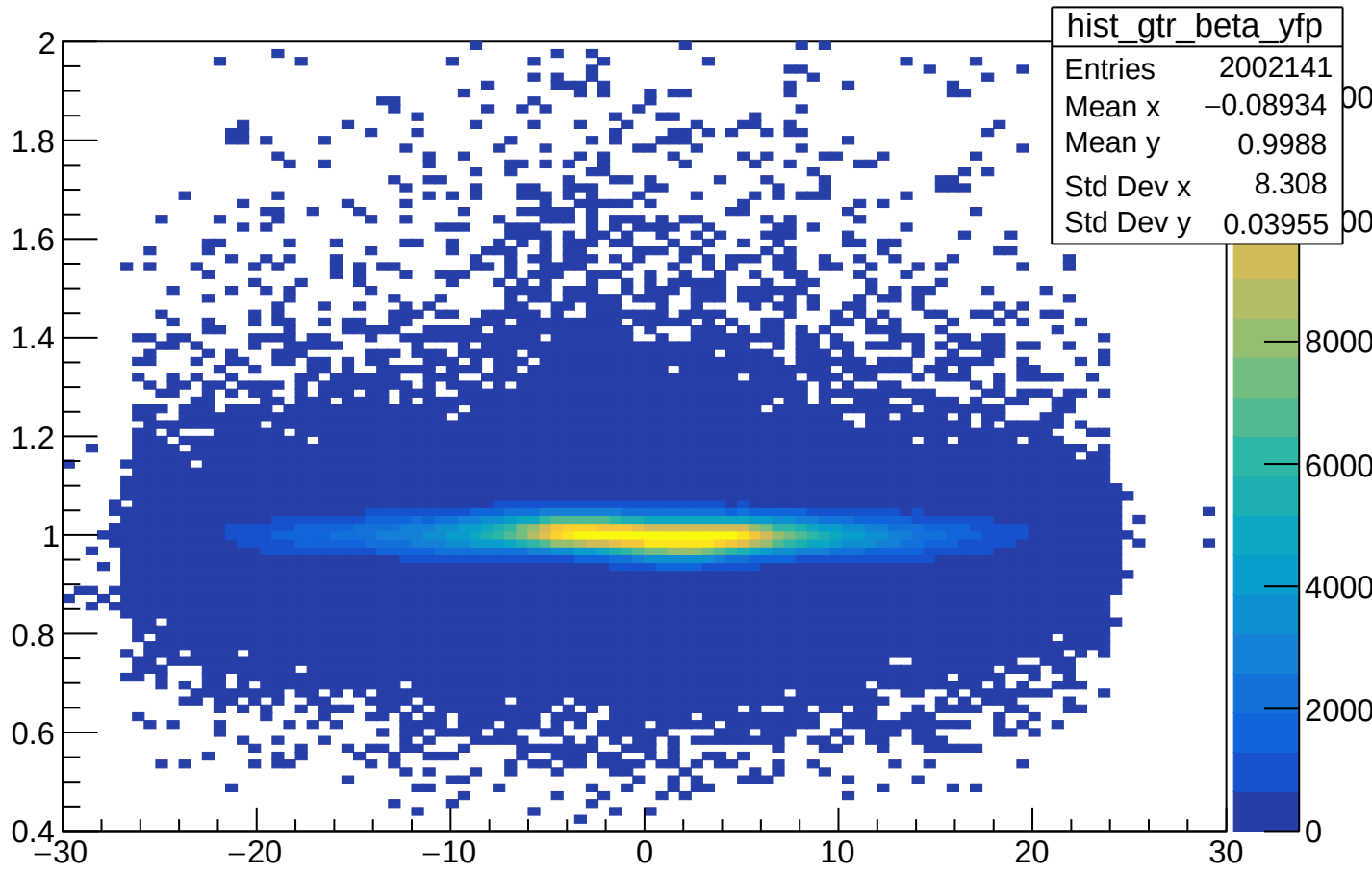

etottracknorm
hist_etottracknorm
Entries 2002141
Mean 0.729
Std Dev 0.3428
x = 0.7
10^6
10^5
10^4
10^3
10^2
10
1
0
1
2
3
4
5
6
7
8

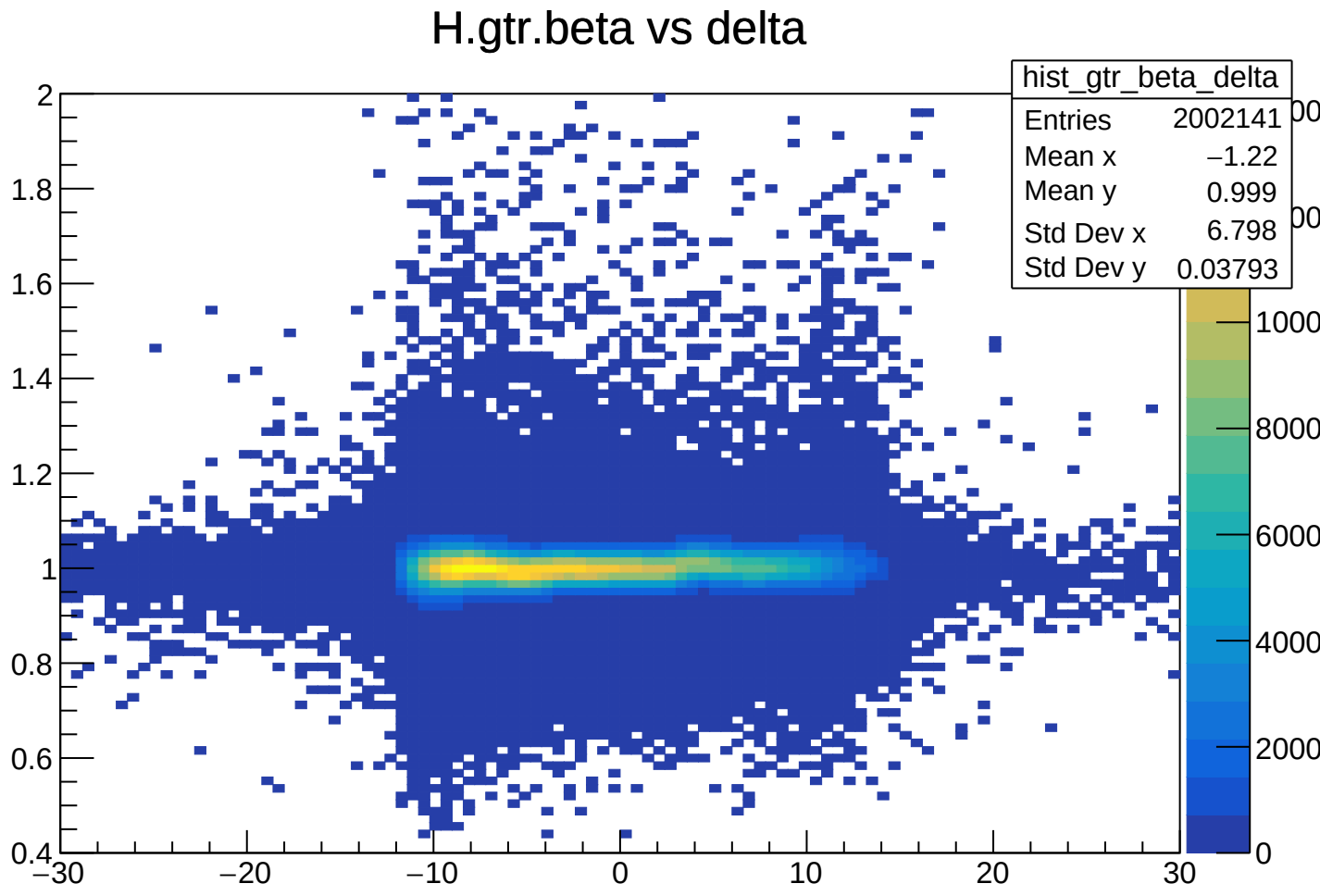

npeSum
x = 0.7
hist_npeSum
Entries 2002141
Mean 8.914
Std Dev 5.609
10^5
10^4
10^3
10^2
10
1
0
10
20
30
40
50
60
70

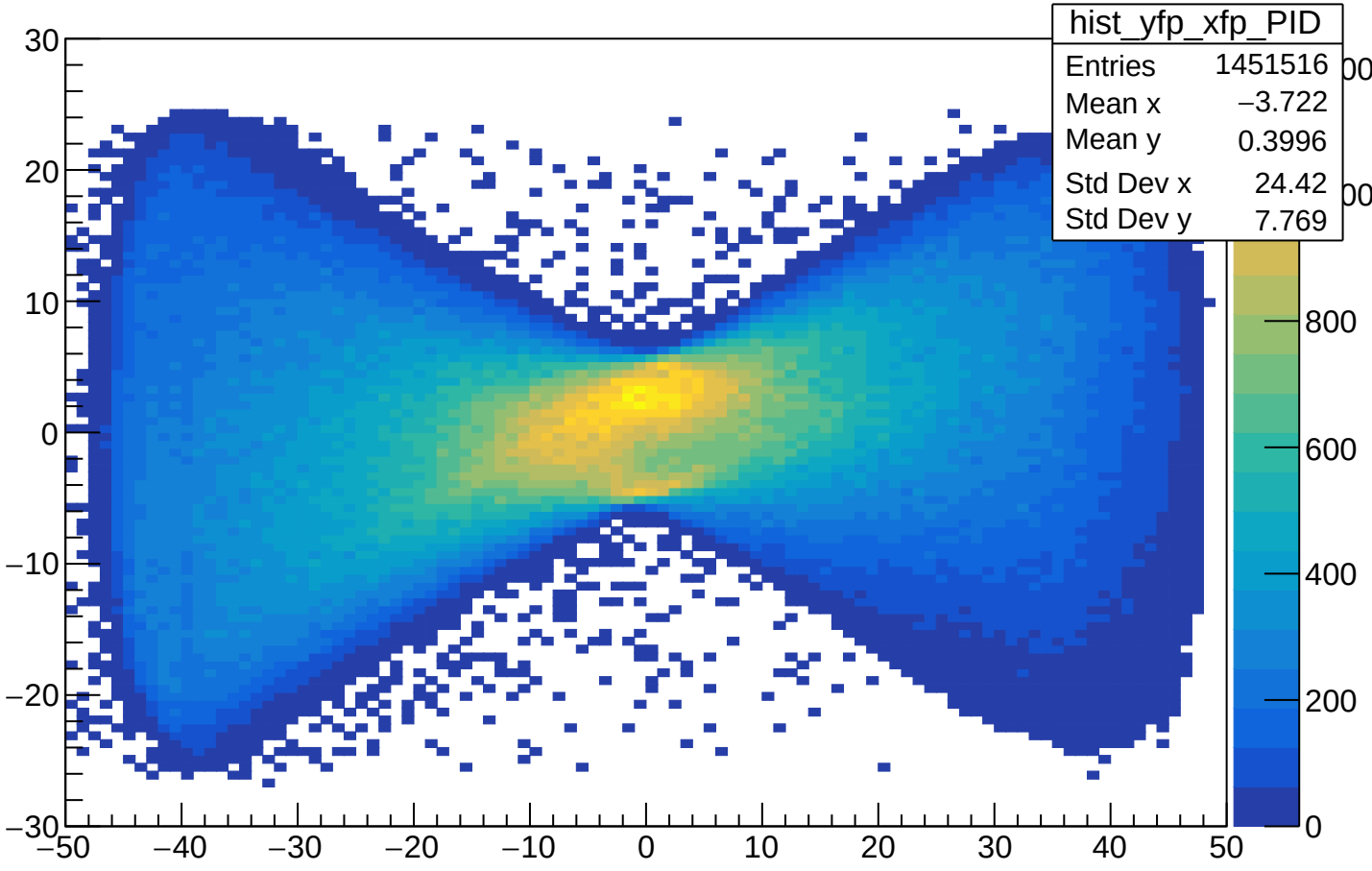

delta
hist_delta
Entries 2002141
Mean –1.236
Std Dev 6.807
x = -8
x = 8
10^5
10^4
10^3
10^2
10
–30
–20
–10
0
10
20
30

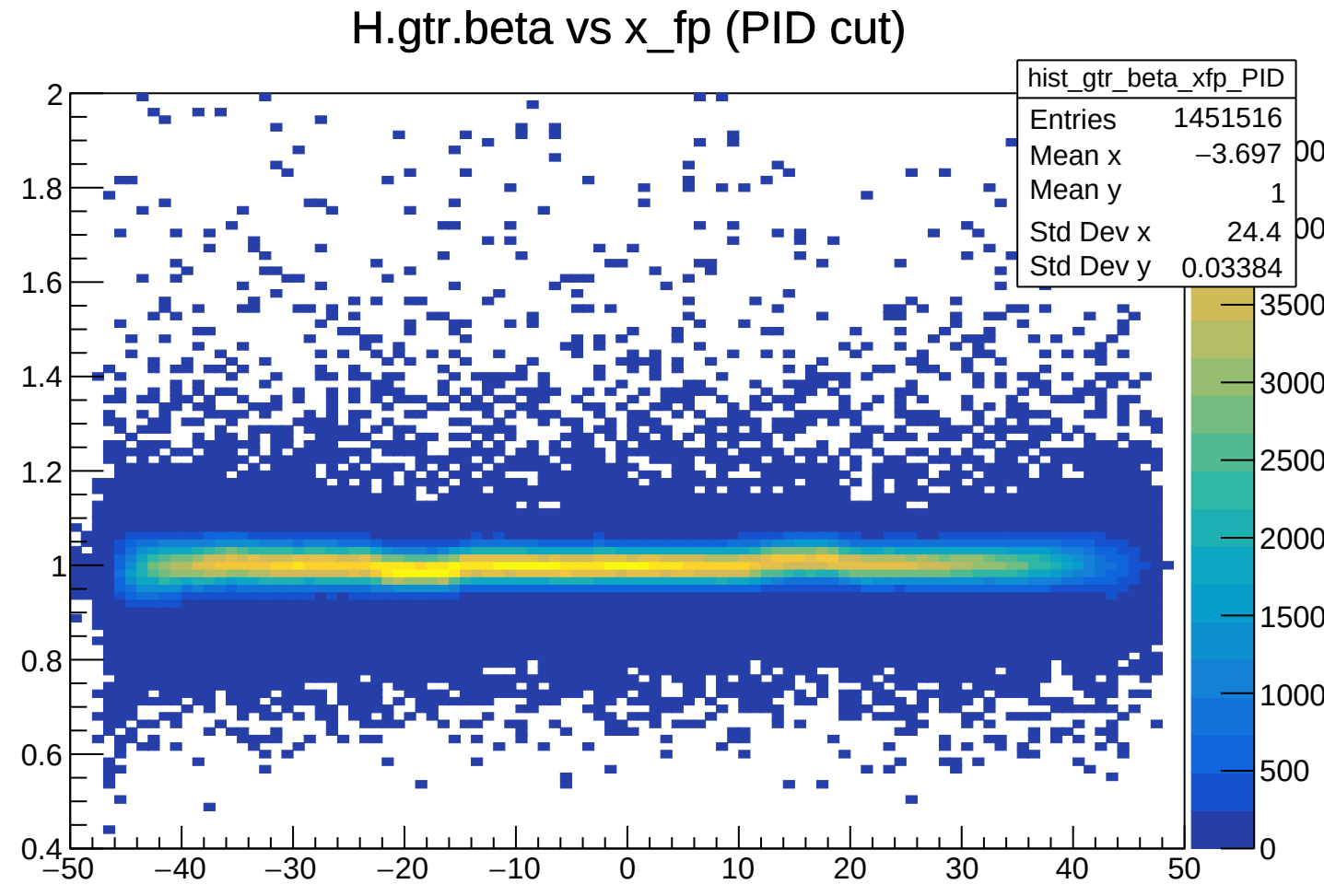

focal plane
hist_yfp_xfp
Entries 2002141
Mean x −6.176
Mean y −0.1043
Std Dev x 24.82
Std Dev y 8.367
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
1000
800
600
400
200
0

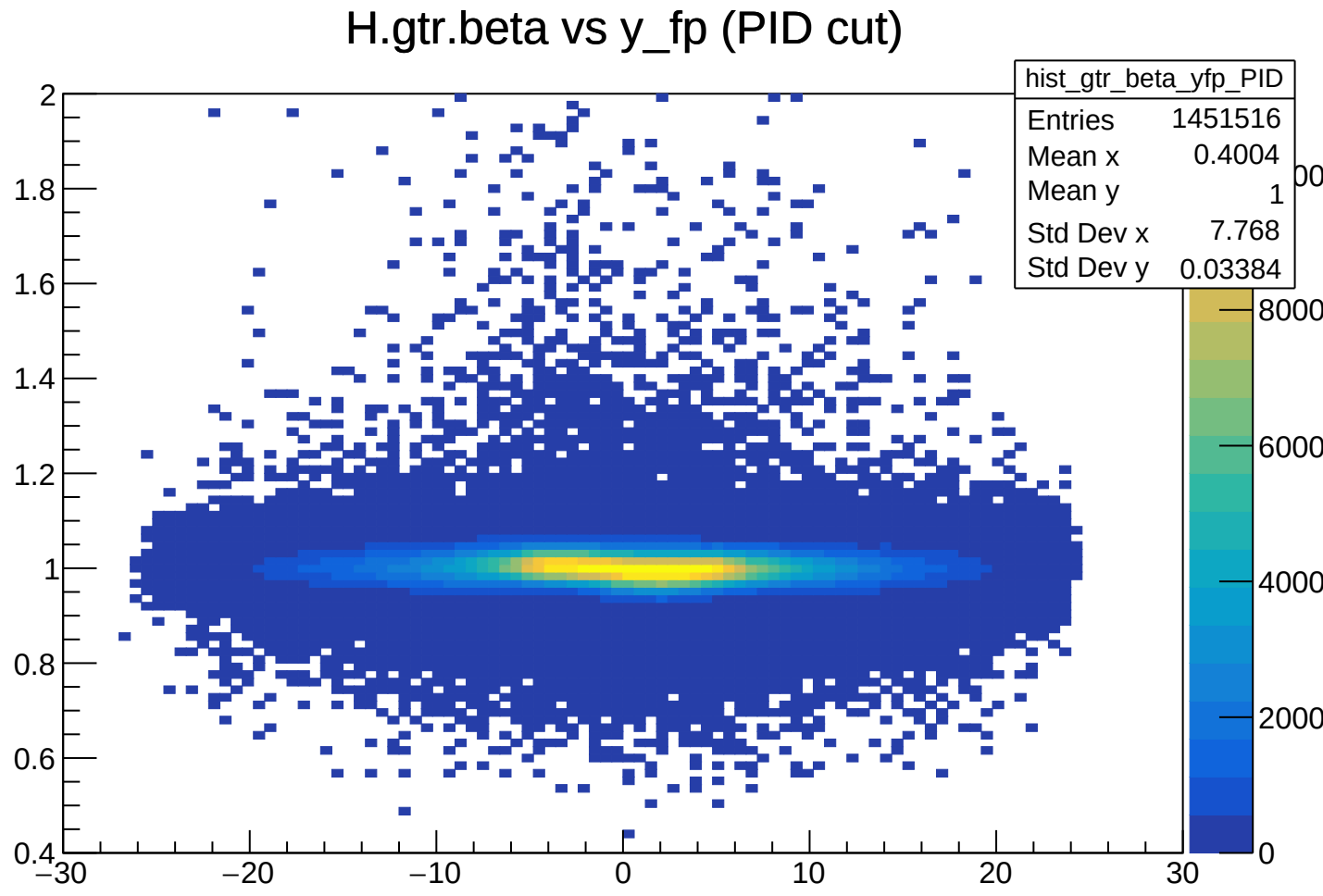

H.gtr.beta vs x_fp
hist_gtr_beta_xfp
Entries 2002141
Mean x −6.016
Mean y 0.9988
Std Dev x 24.78
Std Dev y 0.0394
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−50
−40
−30
−20
−10
0
10
20
30
40
50
4000
3000
2000
1000
0

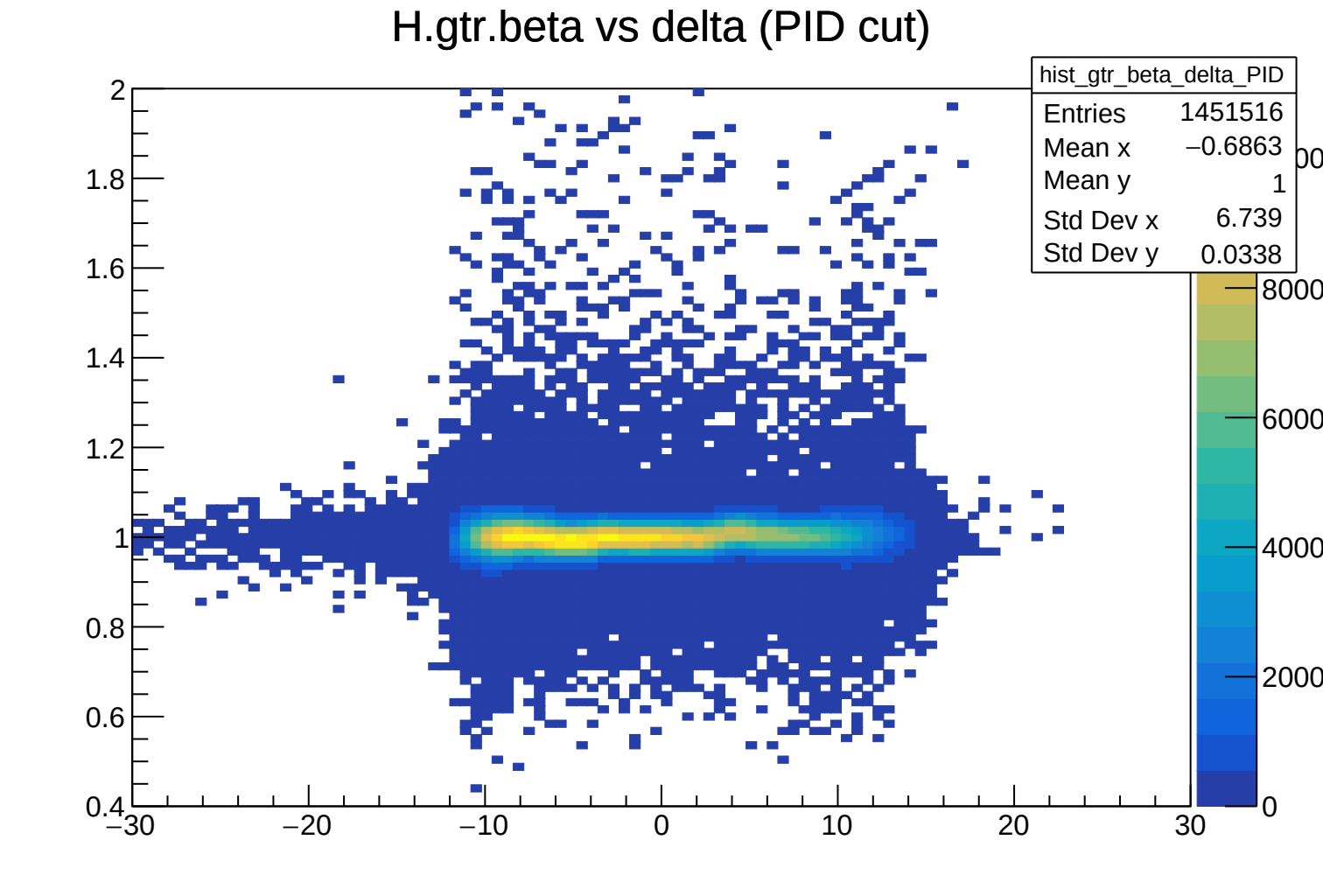

H.gtr.beta vs y_fp
hist_gtr_beta_yfp
Entries 2002141
Mean x −0.08934
Mean y 0.9988
Std Dev x 8.308
Std Dev y 0.03955
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
8000
6000
4000
2000
0

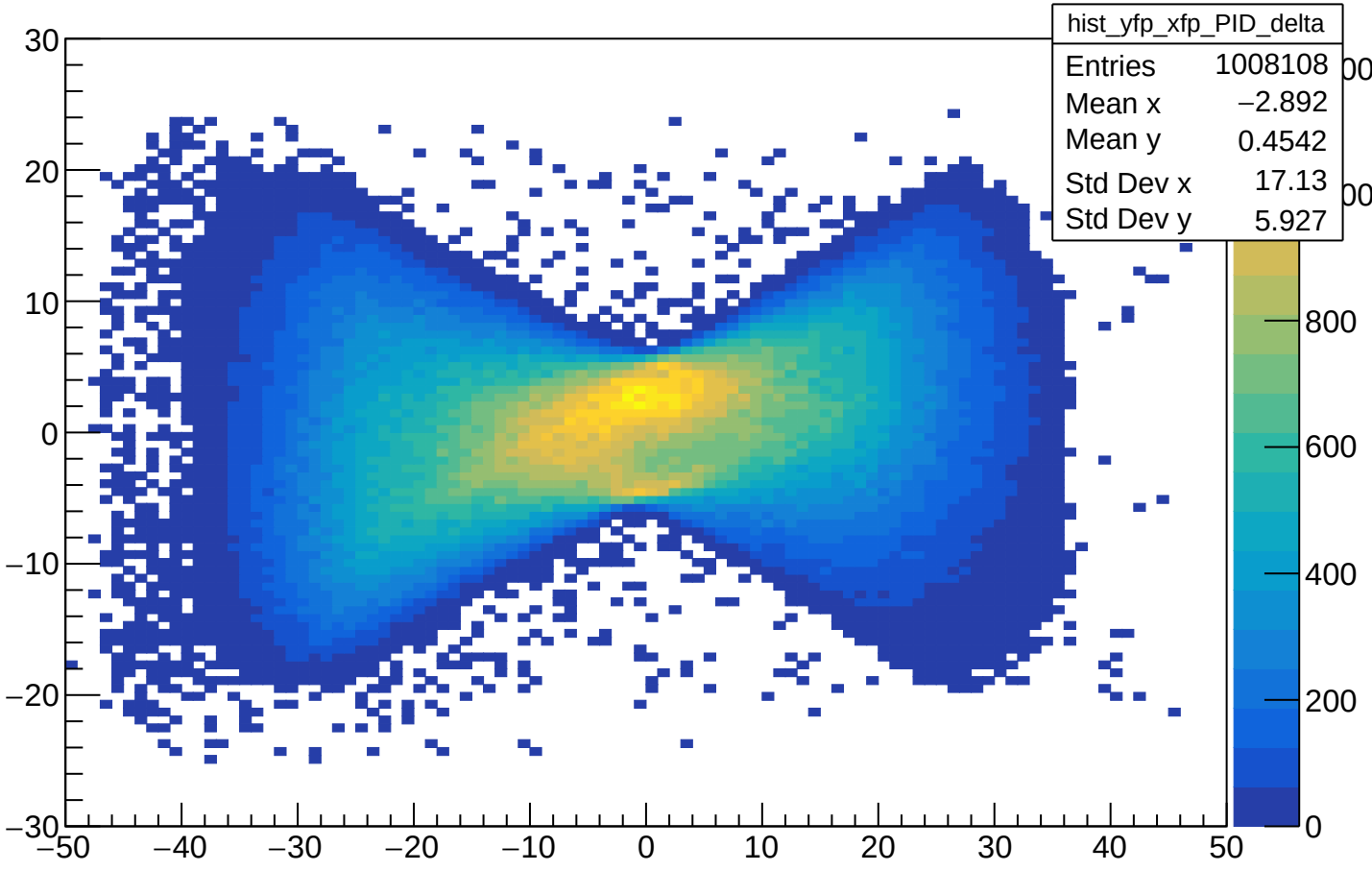

H.gtr.beta vs delta
hist_gtr_beta_delta
Entries 2002141
Mean x −1.22
Mean y 0.999
Std Dev x 6.798
Std Dev y 0.03793
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
1000
8000
6000
4000
2000
0

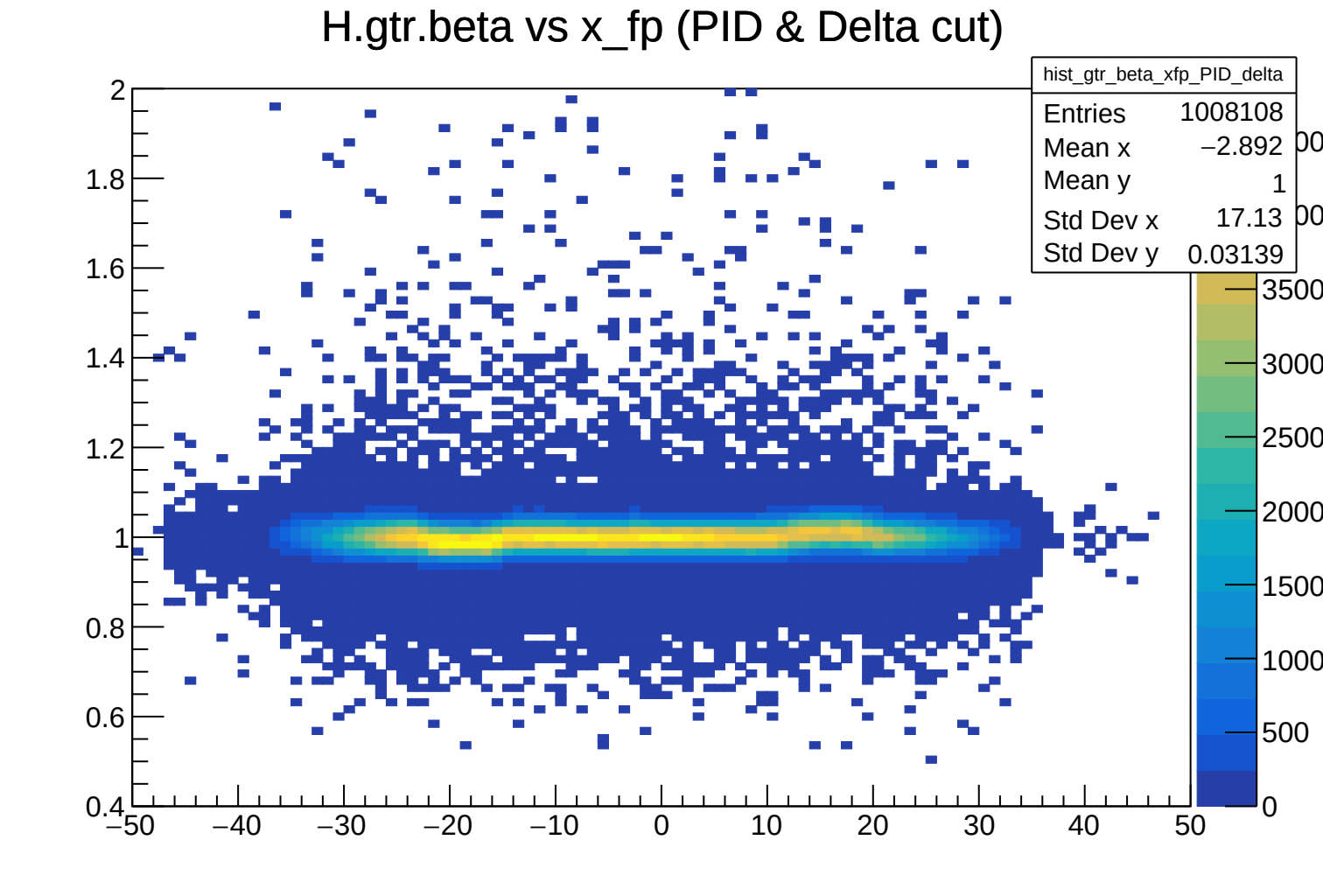

focal plane (PID cut)
hist_yfp_xfp_PID
Entries 1451516
Mean x −3.722
Mean y 0.3996
Std Dev x 24.42
Std Dev y 7.769
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
800
600
400
200
0

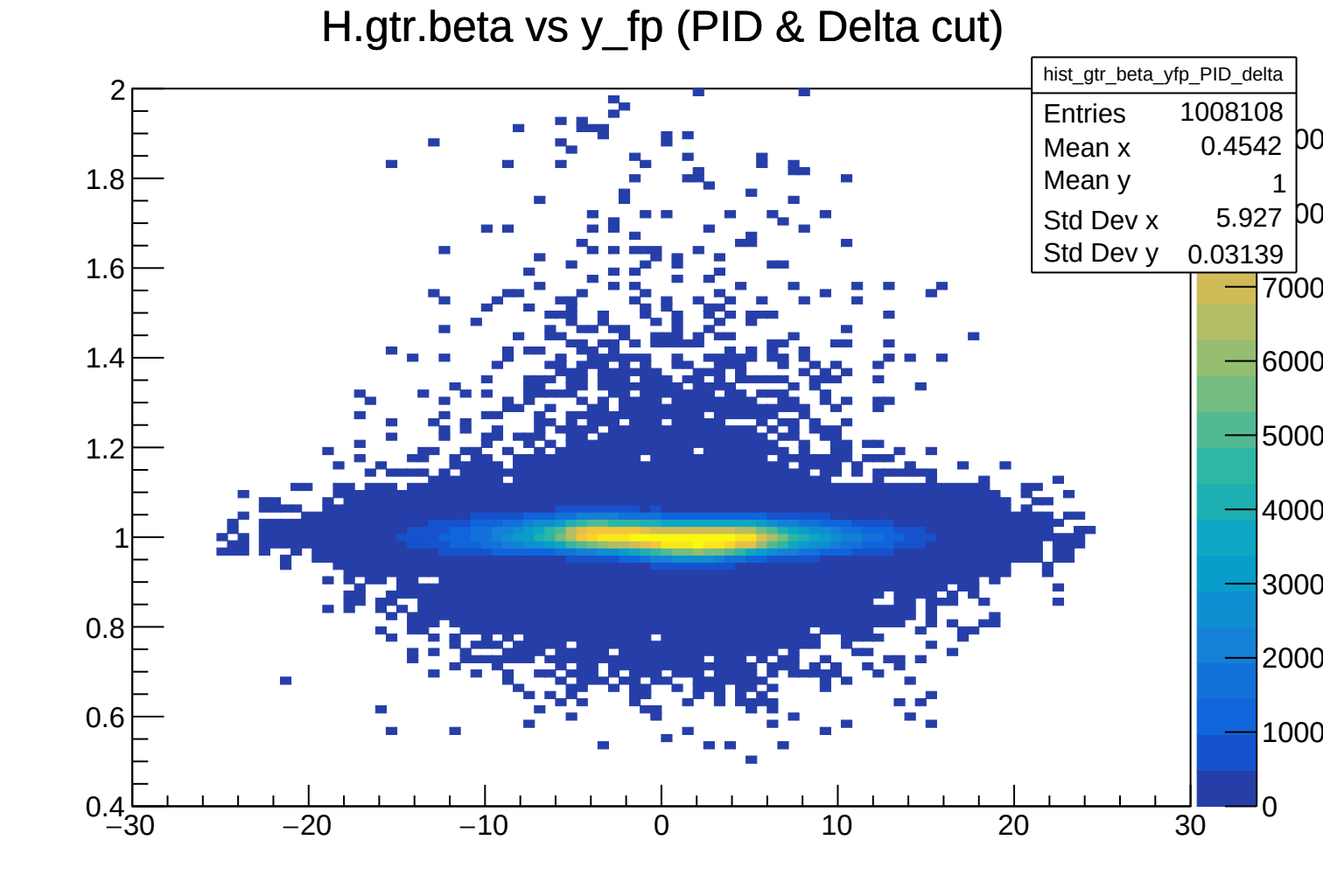

H.gtr.beta vs x_fp (PID cut)
hist_gtr_beta_xfp_PID
Entries 1451516
Mean x −3.697
Mean y 1
Std Dev x 24.4
Std Dev y 0.03384
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−50
−40
−30
−20
−10
0
10
20
30
40
50
3500
3000
2500
2000
1500
1000
500
0

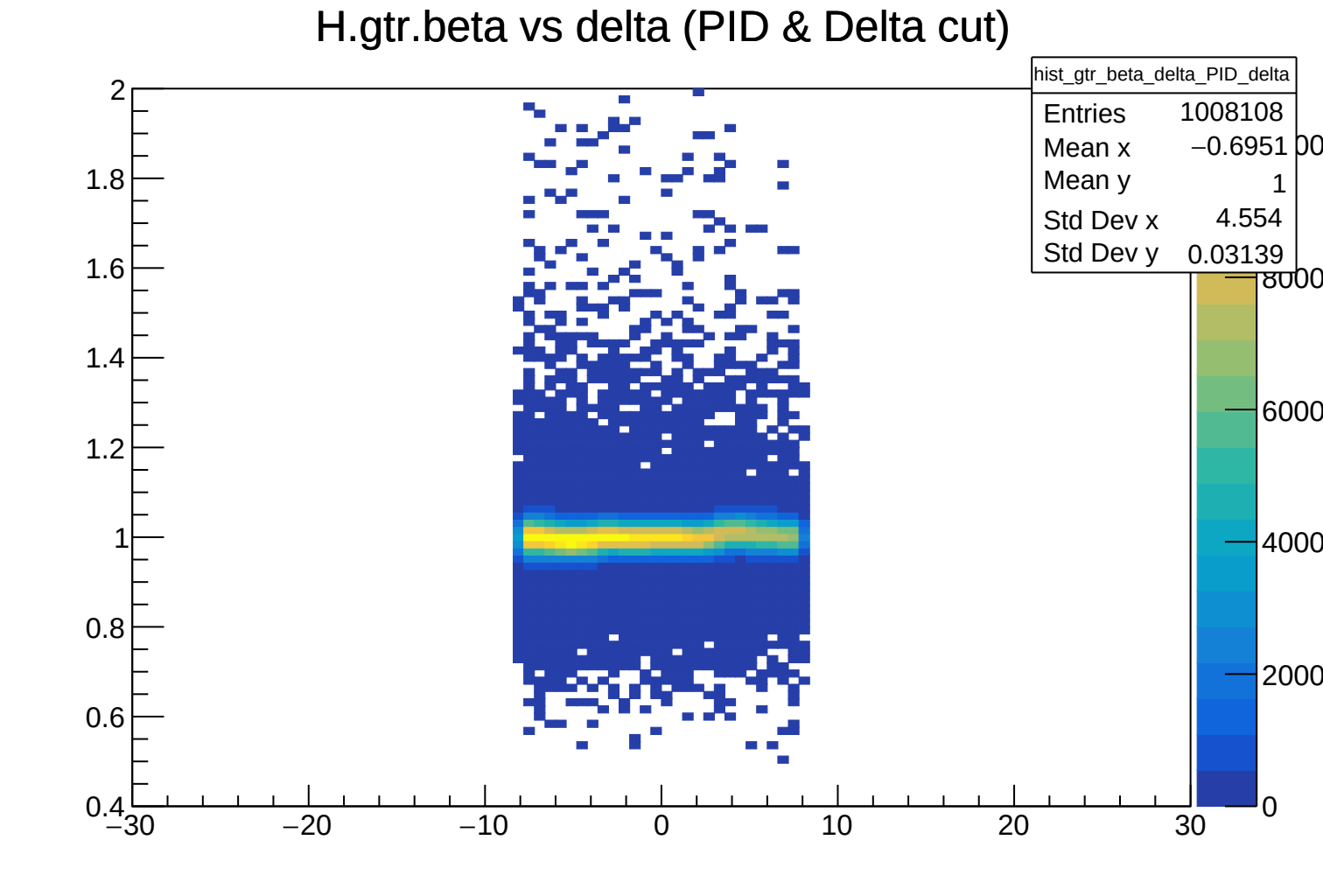

H.gtr.beta vs y_fp (PID cut)
hist_gtr_beta_yfp_PID
Entries 1451516
Mean x 0.4004
Mean y 1
Std Dev x 7.768
Std Dev y 0.03384
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
8000
6000
4000
2000
0


H.gtr.beta vs delta (PID cut)
hist_gtr_beta_delta_PID
Entries 1451516
Mean x −0.6863
Mean y 1
Std Dev x 6.739
Std Dev y 0.0338
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
8000
6000
4000
2000
0


focal plane (PID & Delta cut)
hist_yfp_xfp_PID_delta
Entries 1008108
Mean x −2.892
Mean y 0.4542
Std Dev x 17.13
Std Dev y 5.927
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
800
600
400
200
0


H.gtr.beta vs x_fp (PID & Delta cut)
hist_gtr_beta_xfp_PID_delta
Entries 1008108
Mean x −2.892
Mean y 1
Std Dev x 17.13
Std Dev y 0.03139
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
3500
3000
2500
2000
1500
1000
500
0


H.gtr.beta vs y_fp (PID & Delta cut)
hist_gtr_beta_yfp_PID_delta
Entries 1008108
Mean x 0.4542
Mean y 1
Std Dev x 5.927
Std Dev y 0.03139
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
7000
6000
5000
4000
3000
2000
1000
0


H.gtr.beta vs delta (PID & Delta cut)
hist_gtr_beta_delta_PID_delta
Entries 1008108
Mean x −0.6951
Mean y 1
Std Dev x 4.554
Std Dev y 0.03139
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
8000
6000
4000
2000
0