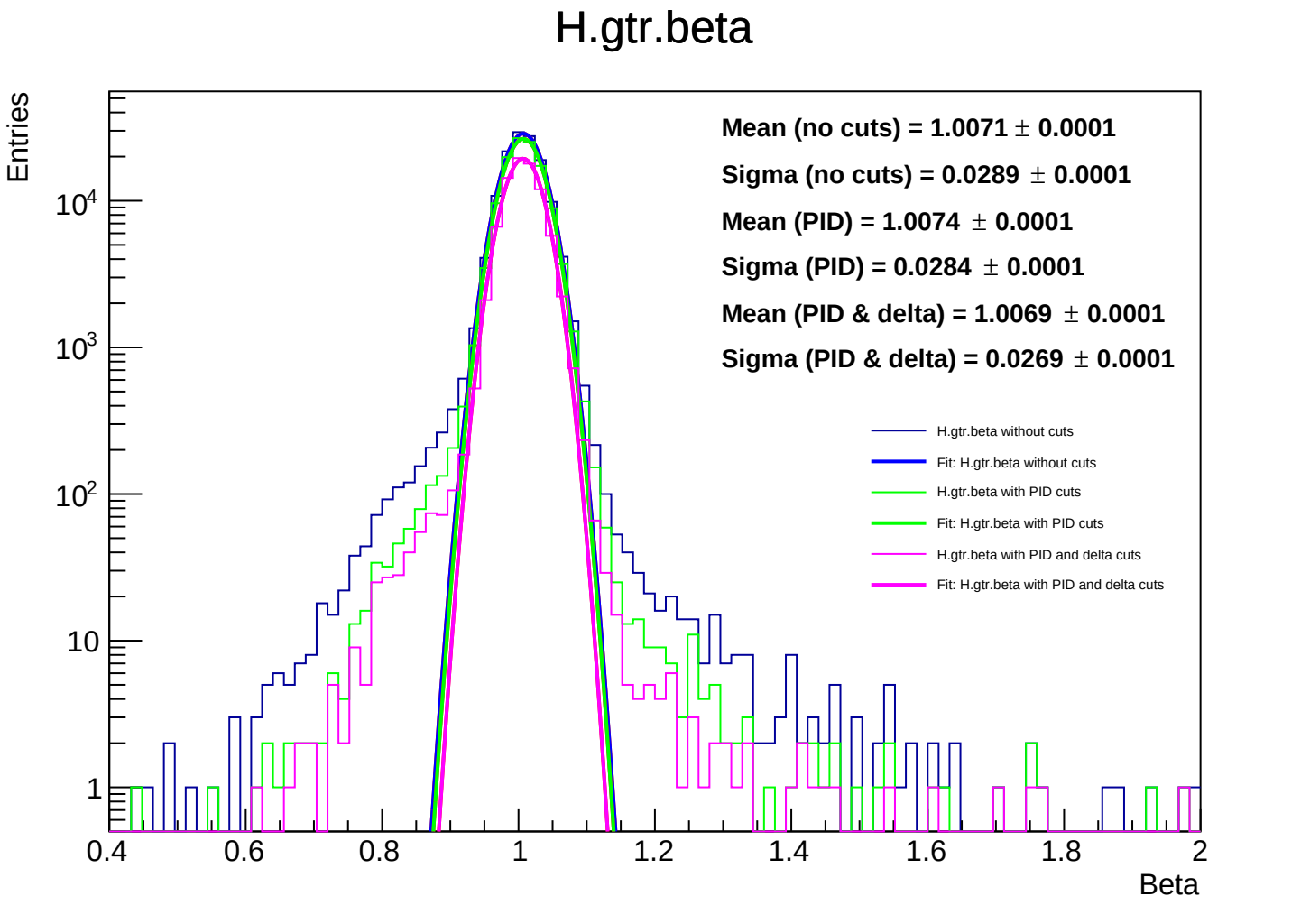
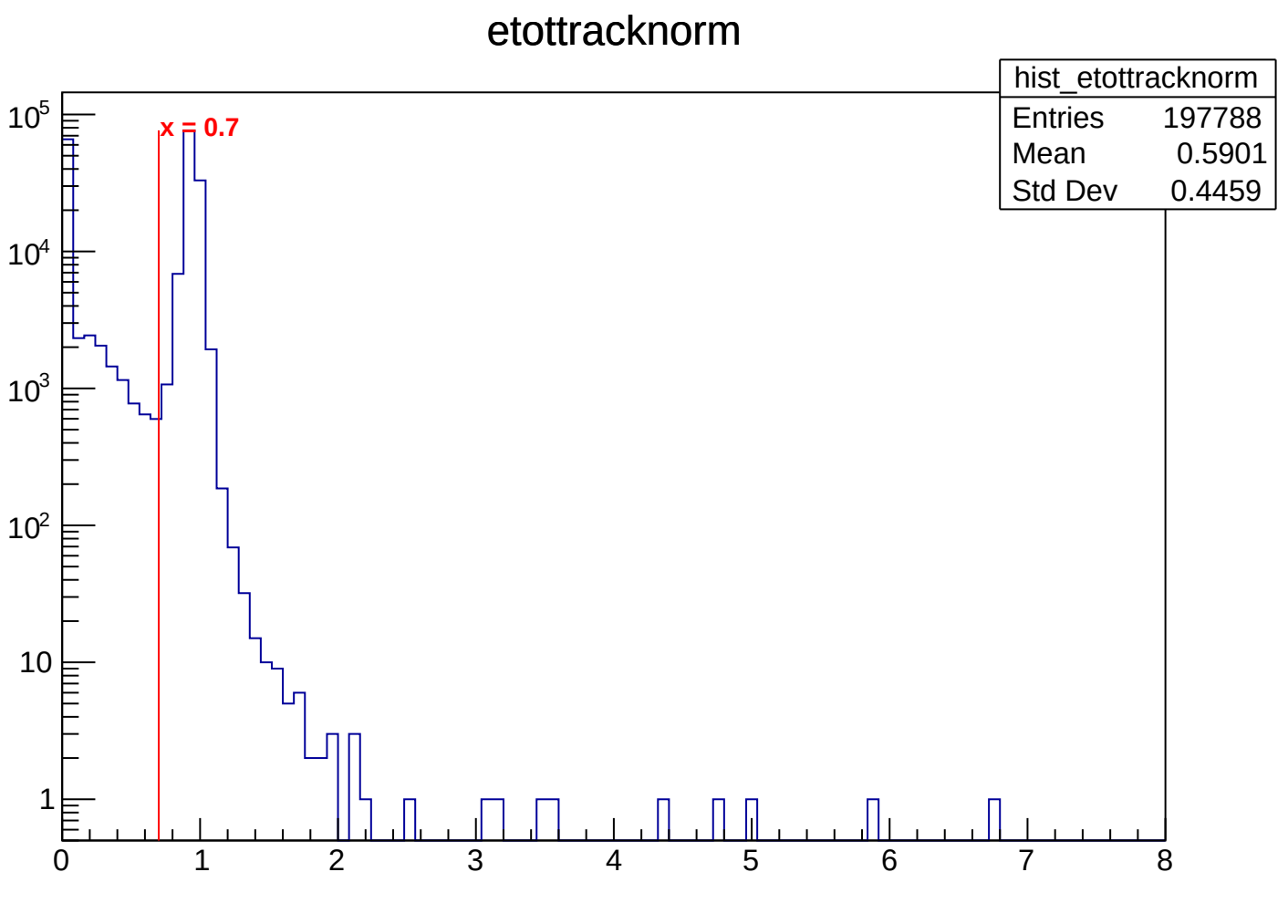
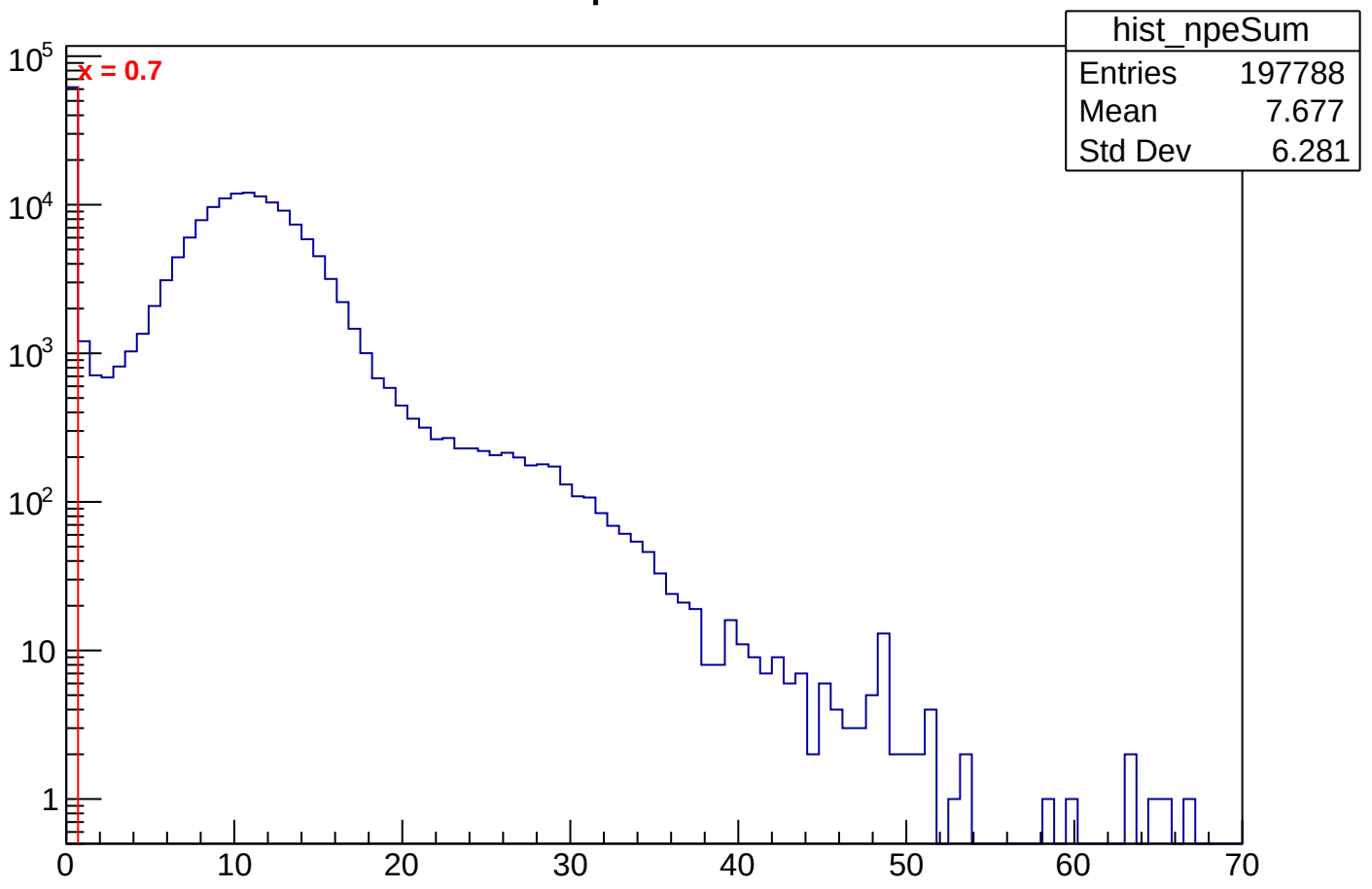
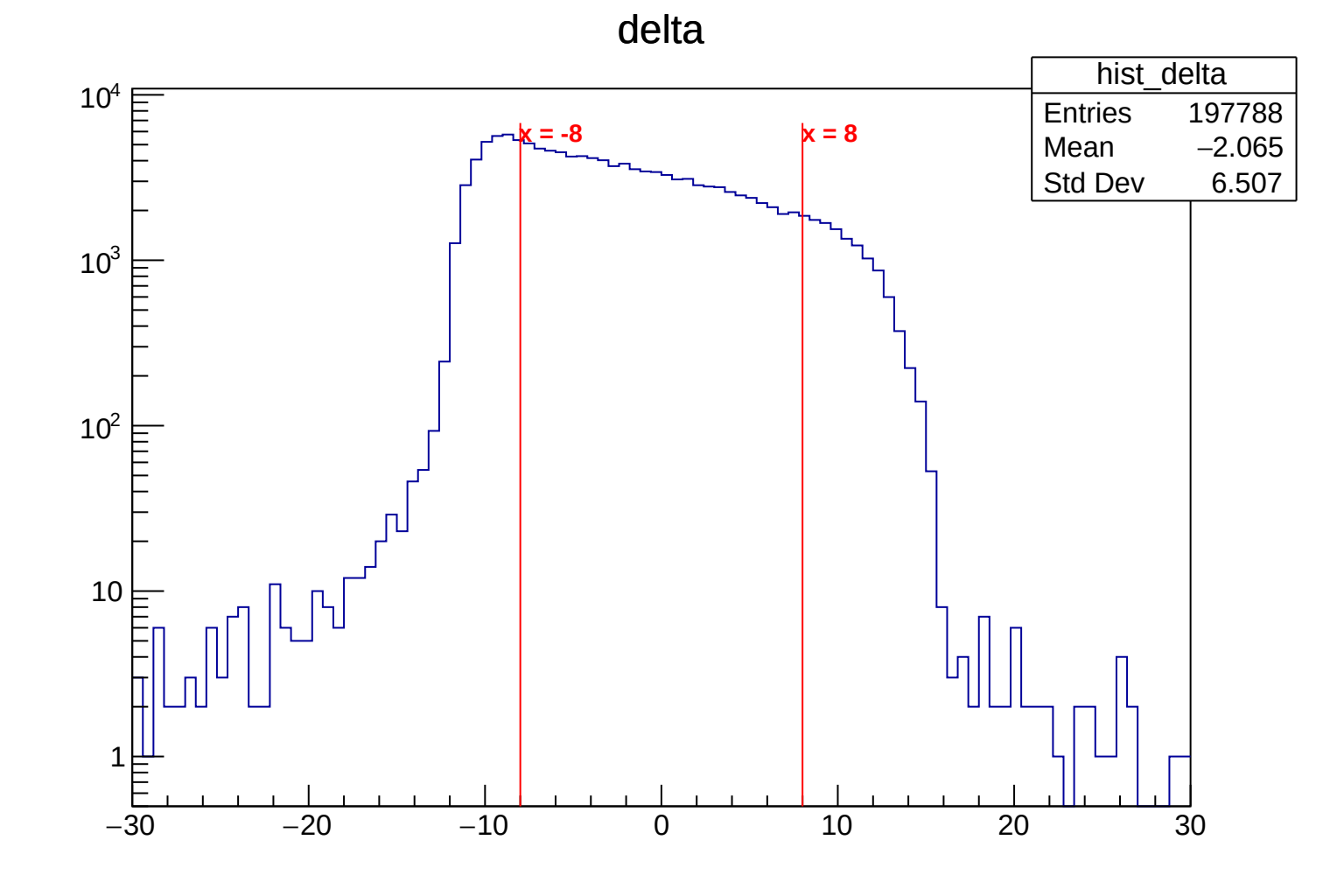
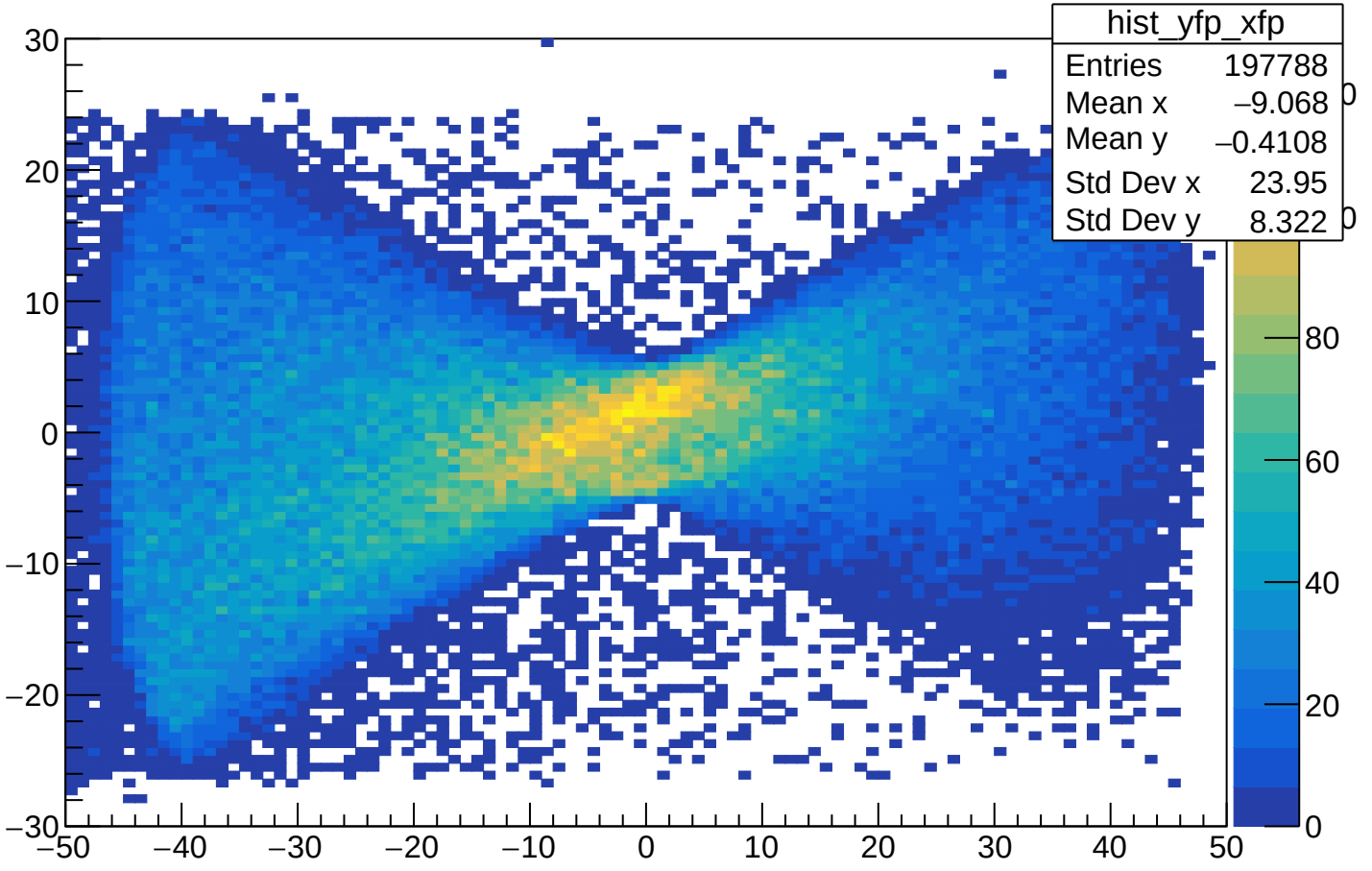
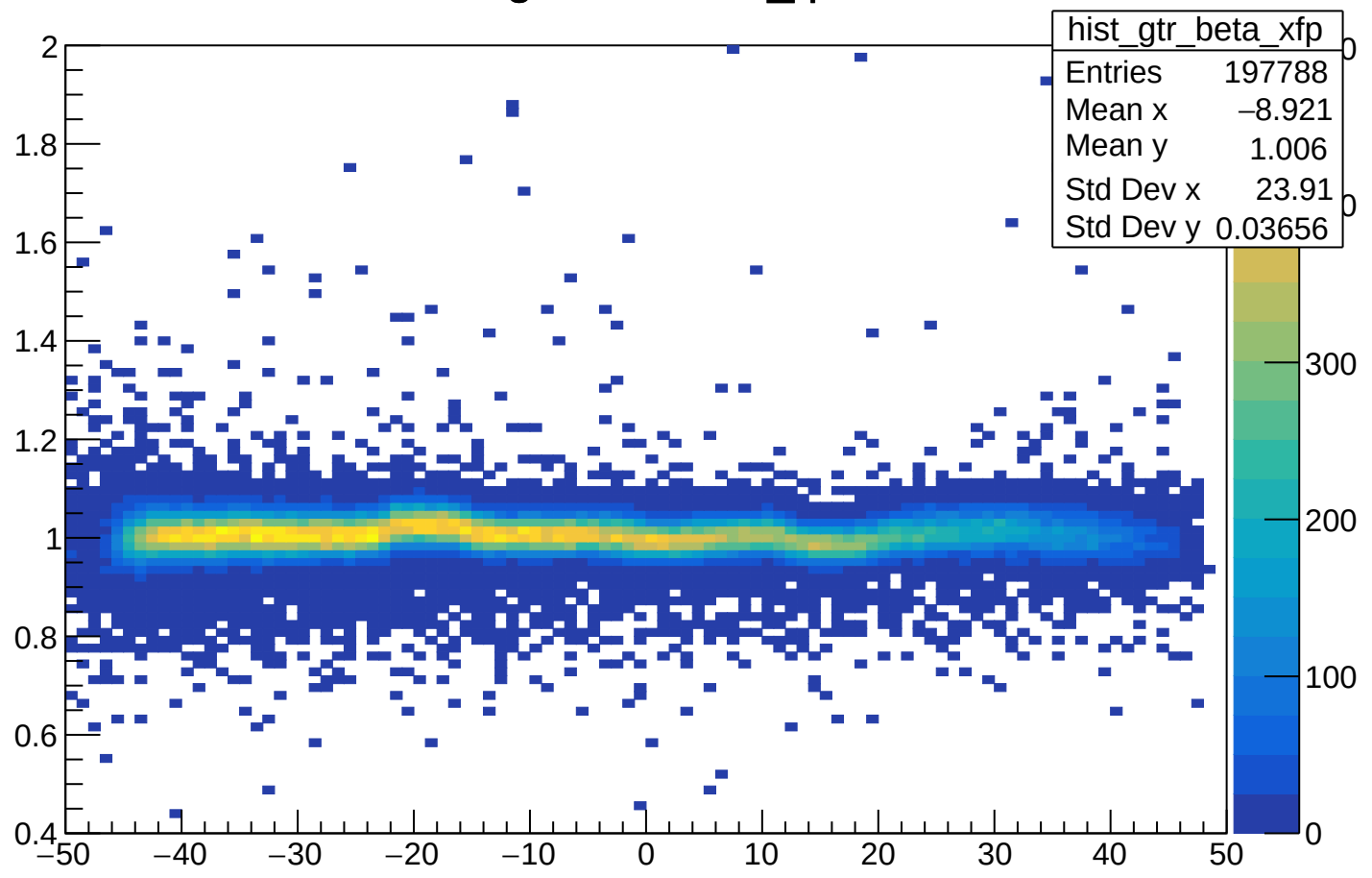

H.gtr.beta
Entries
Beta
Mean (no cuts) = 1.0071 ± 0.0001
Sigma (no cuts) = 0.0289 ± 0.0001
Mean (PID) = 1.0074 ± 0.0001
Sigma (PID) = 0.0284 ± 0.0001
Mean (PID & delta) = 1.0069 ± 0.0001
Sigma (PID & delta) = 0.0269 ± 0.0001
H.gtr.beta without cuts
Fit: H.gtr.beta without cuts
H.gtr.beta with PID cuts
Fit: H.gtr.beta with PID cuts
H.gtr.beta with PID and delta cuts
Fit: H.gtr.beta with PID and delta cuts
10^4
10^3
10^2
10
1
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2

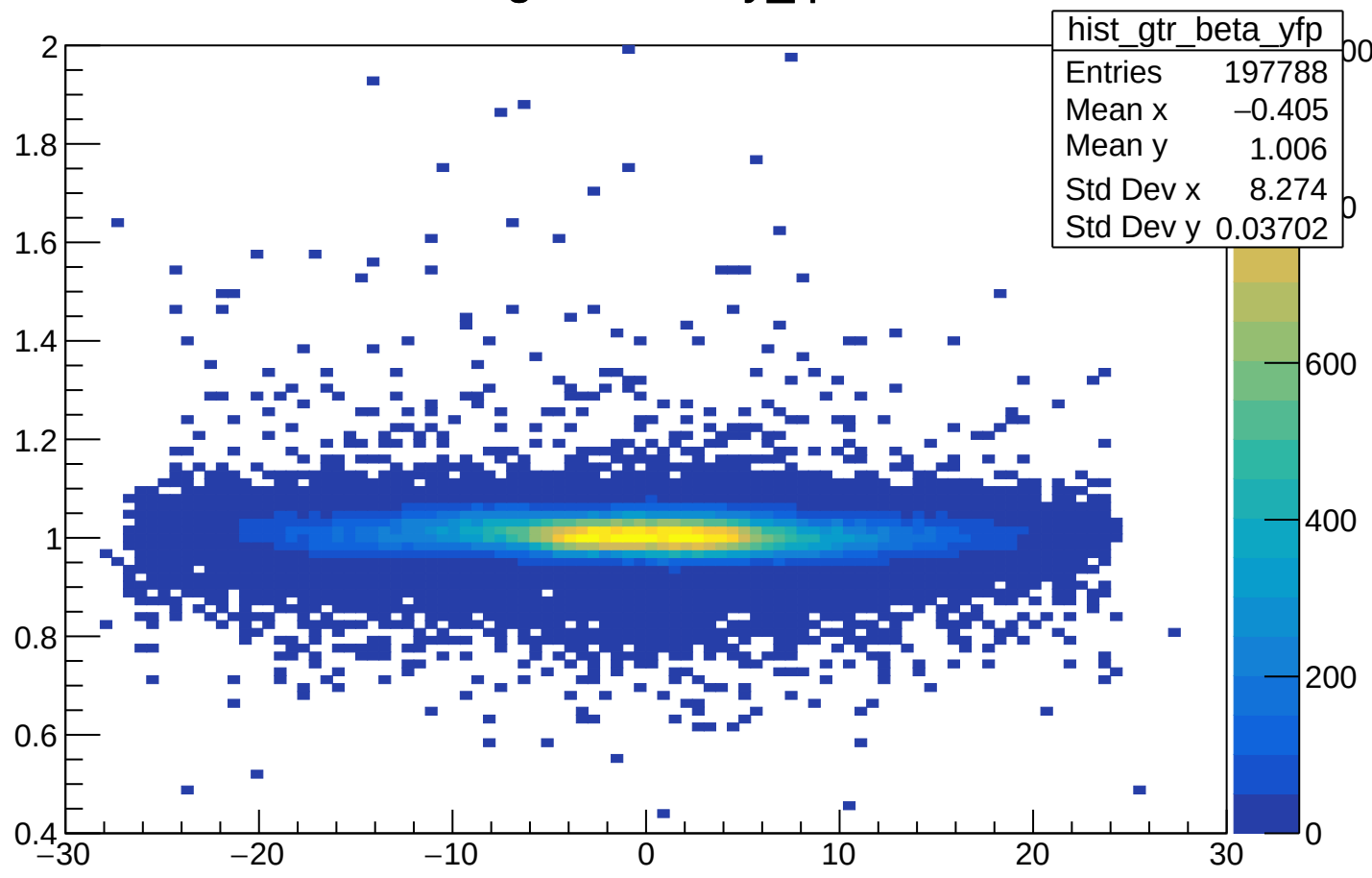

etottracknorm
hist_etottracknorm
Entries 197788
Mean 0.5901
Std Dev 0.4459
x = 0.7
10^5
10^4
10^3
10^2
10
1
0
1
2
3
4
5
6
7
8

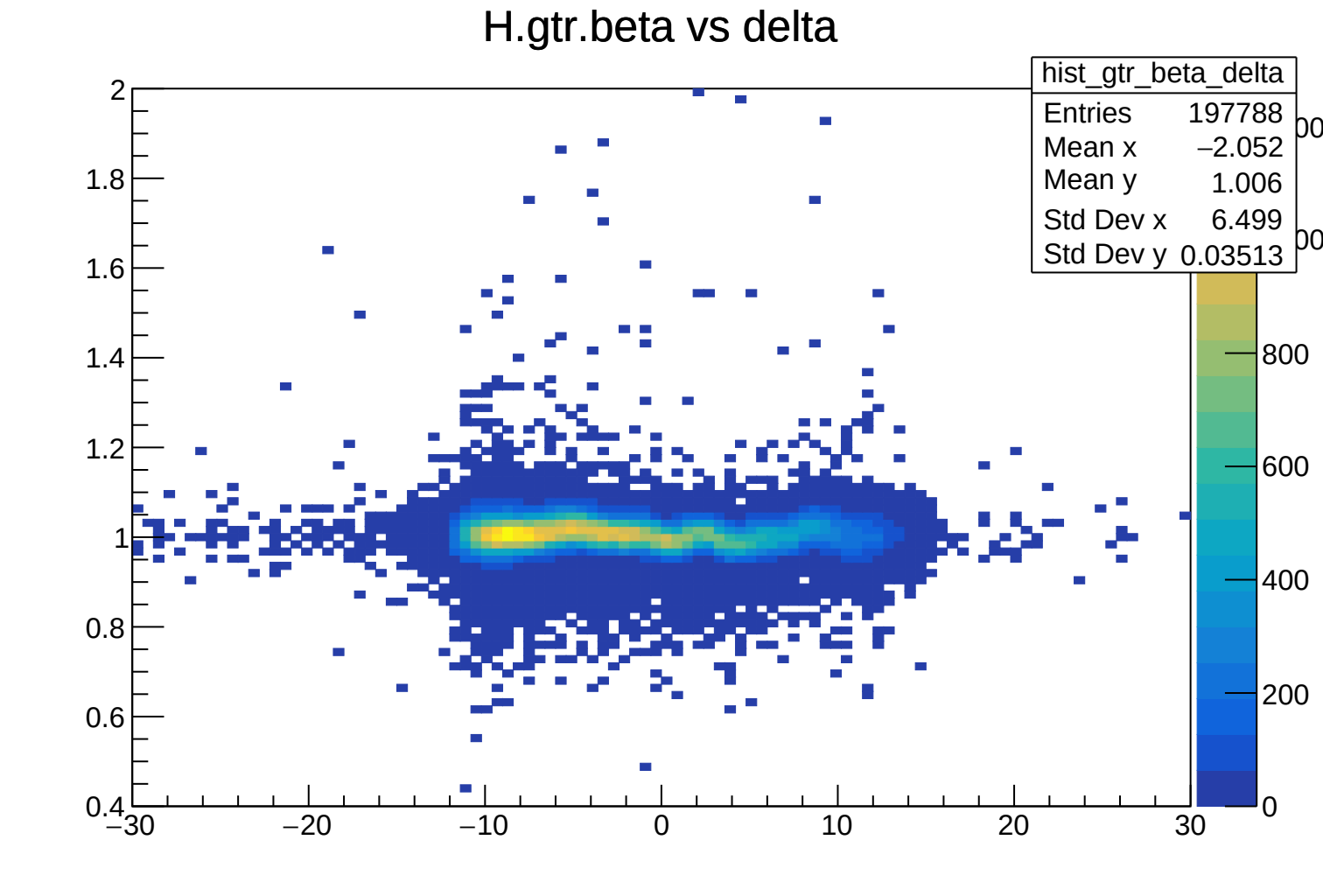

npeSum
hist_npeSum
Entries 197788
Mean 7.677
Std Dev 6.281
x = 0.7
10^5
10^4
10^3
10^2
10
1
0
10
20
30
40
50
60
70

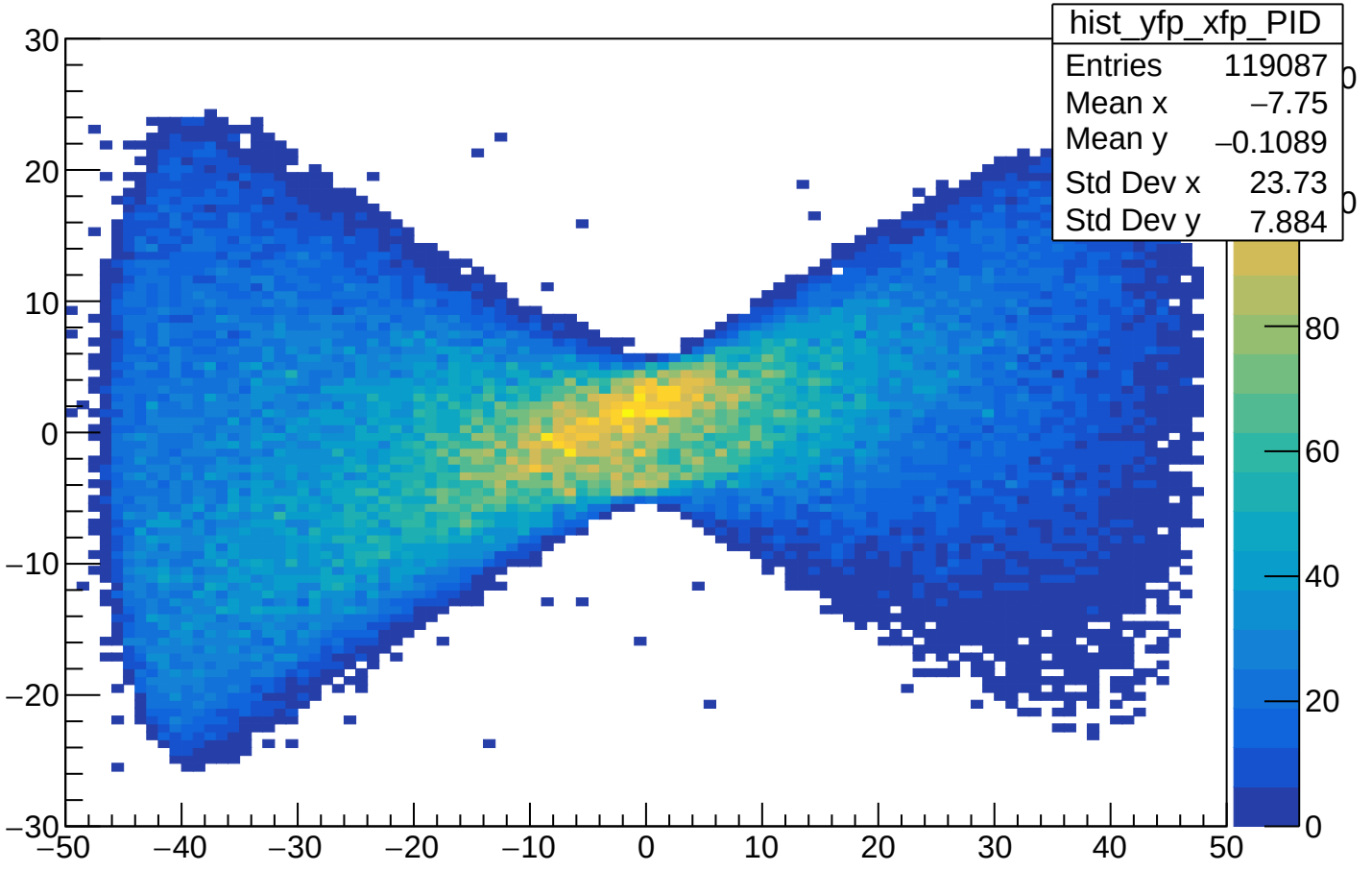

delta
hist_delta
Entries 197788
Mean −2.065
Std Dev 6.507
x = -8
x = 8
10^4
10^3
10^2
10
1
−30
−20
−10
0
10
20
30

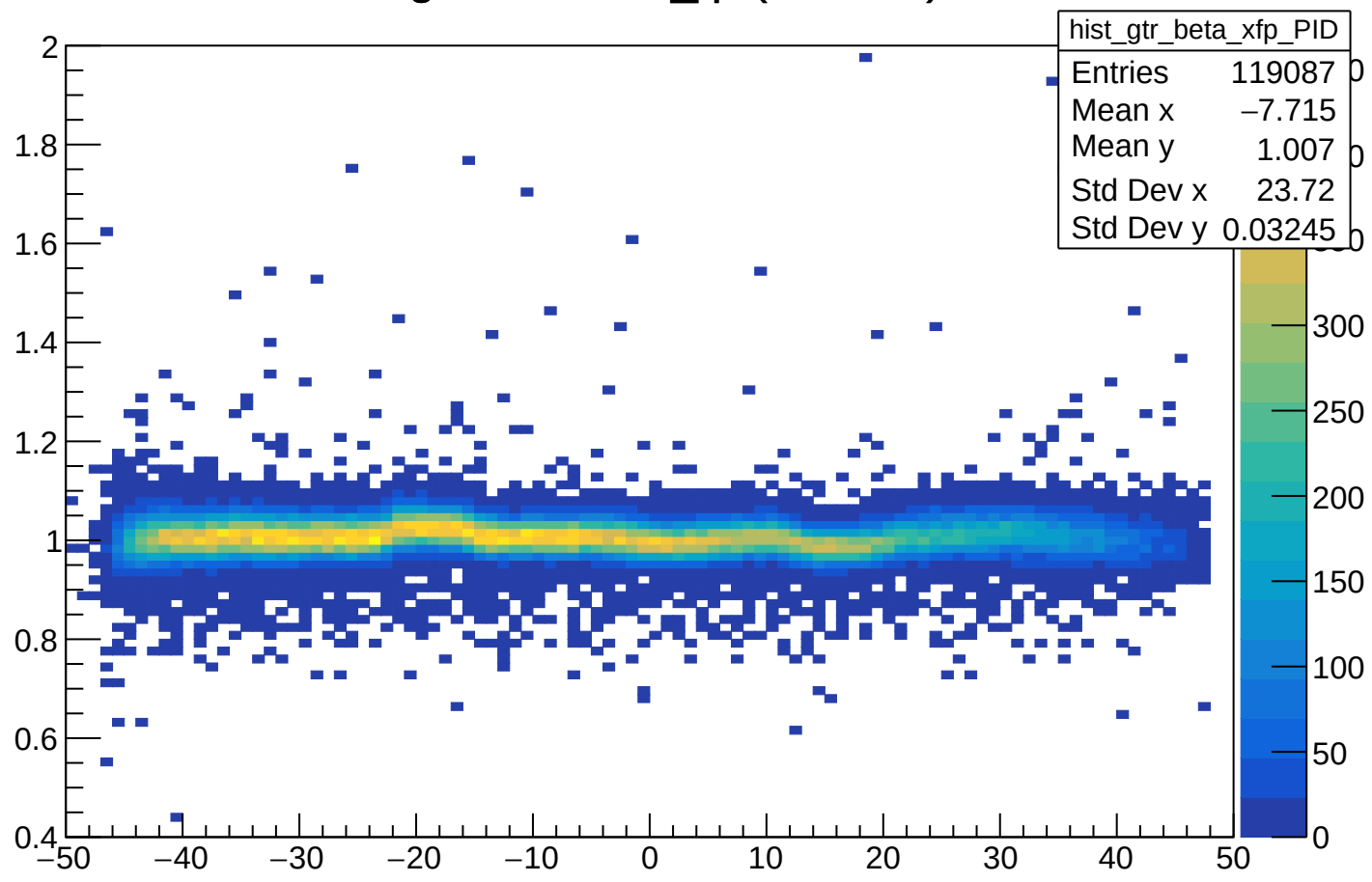

focal plane
hist_yfp_xfp
Entries 197788
Mean x −9.068
Mean y −0.4108
Std Dev x 23.95
Std Dev y 8.322
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
80
60
40
20
0

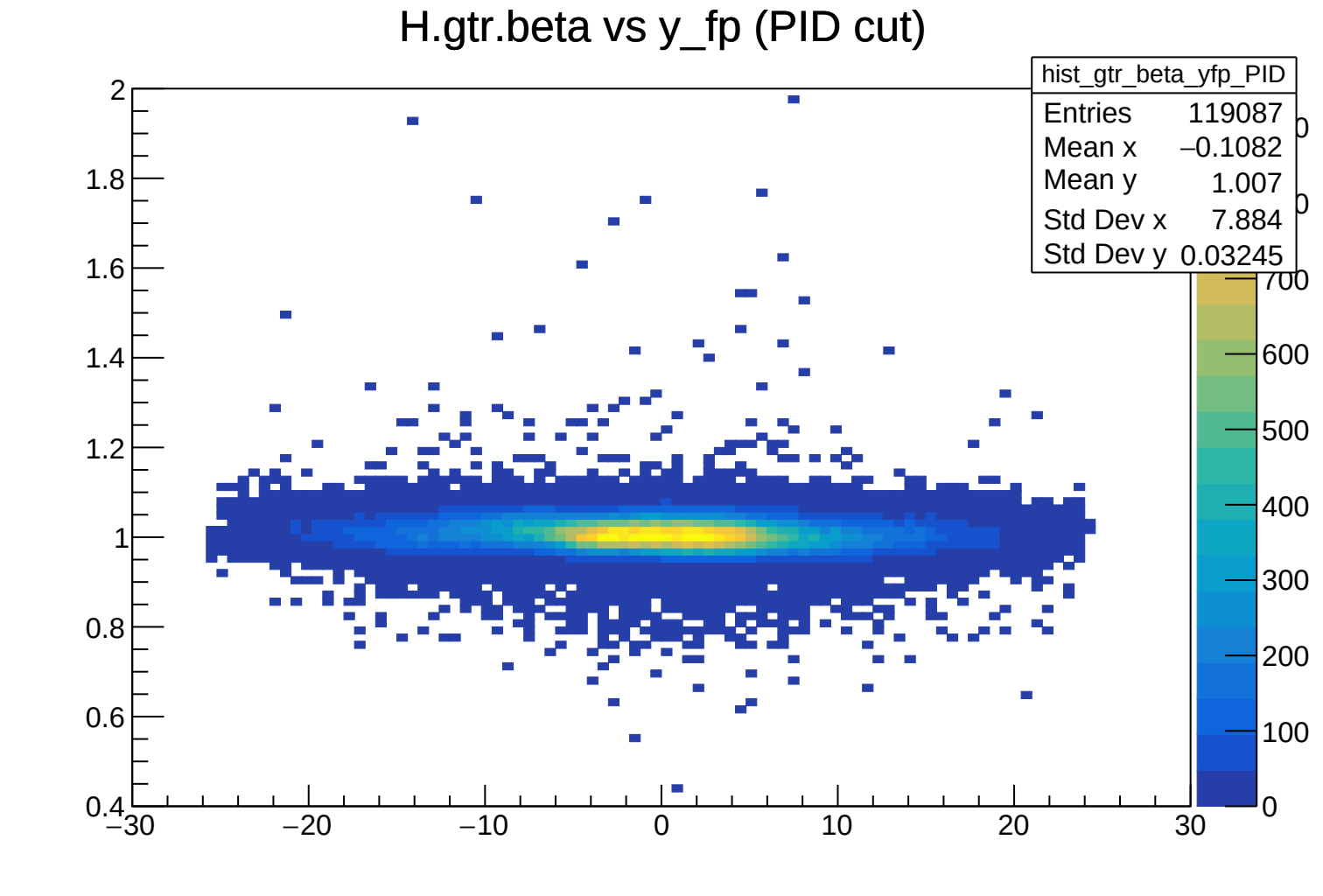

H.gtr.beta vs x_fp
hist_gtr_beta_xfp
Entries 197788
Mean x −8.921
Mean y 1.006
Std Dev x 23.91
Std Dev y 0.03656
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−50
−40
−30
−20
−10
0
10
20
30
40
50
300
200
100
0

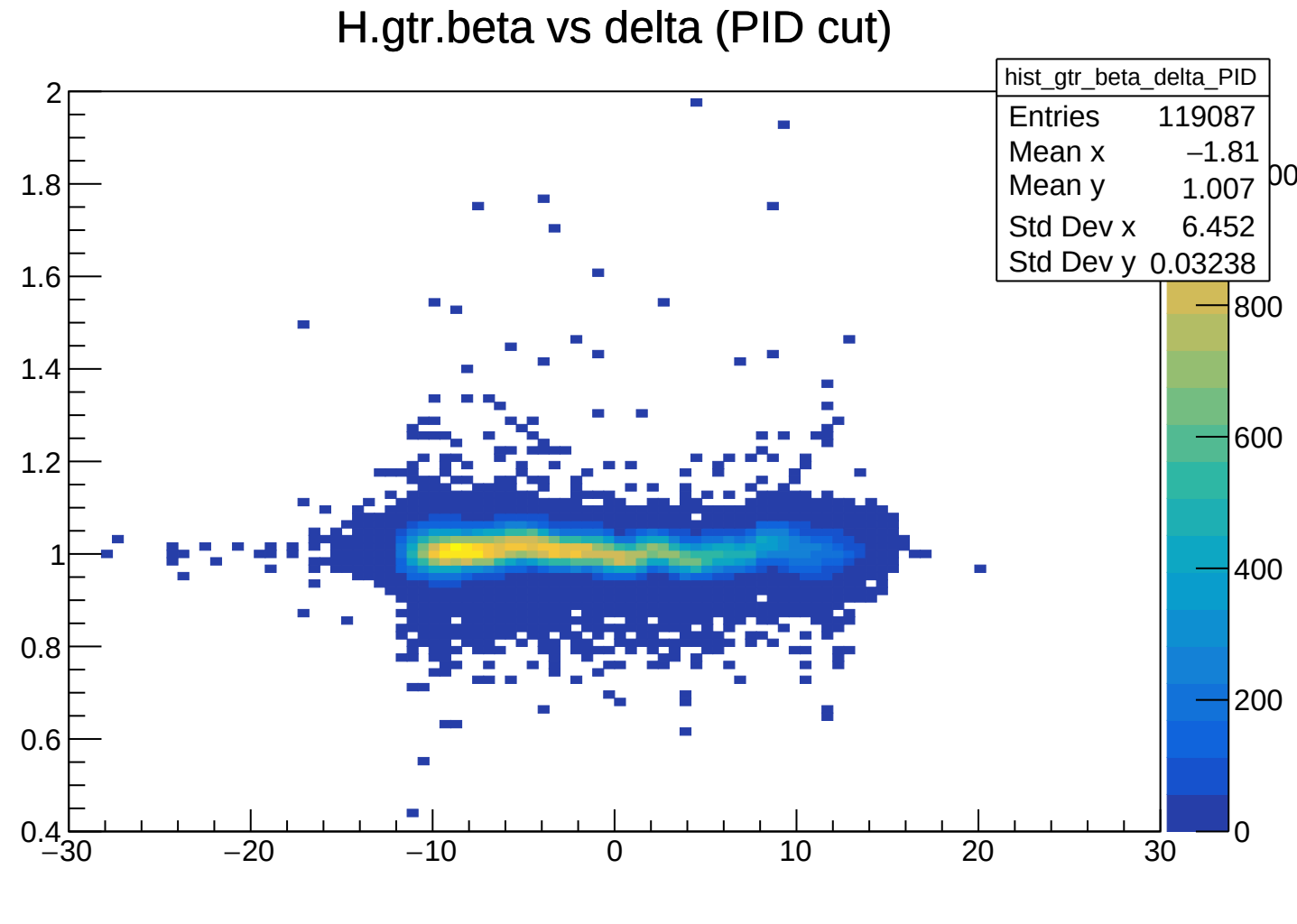

H.gtr.beta vs y_fp
hist_gtr_beta_yfp
Entries 197788
Mean x −0.405
Mean y 1.006
Std Dev x 8.274
Std Dev y 0.03702
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
600
400
200
0

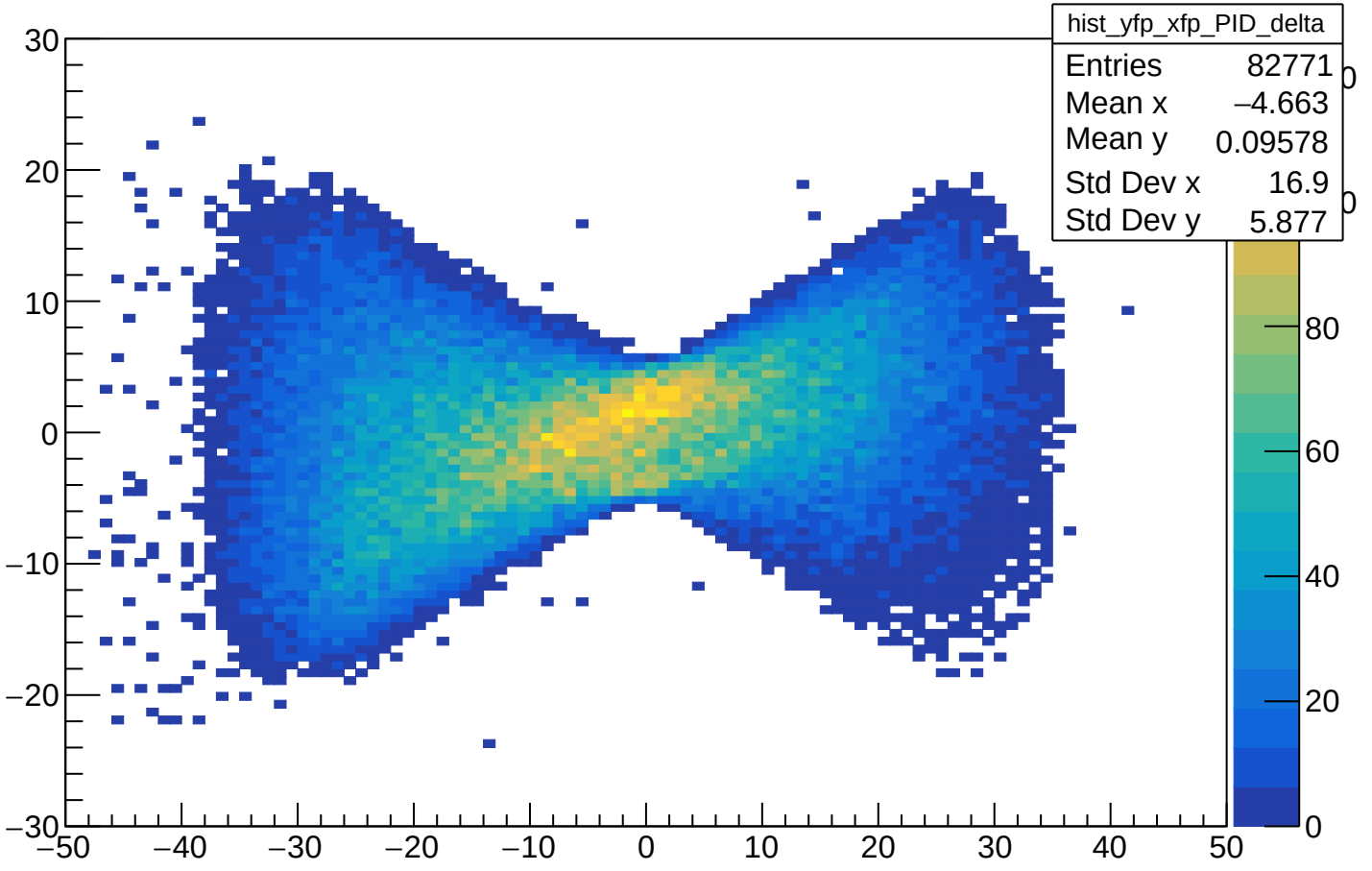

H.gtr.beta vs delta
hist_gtr_beta_delta
Entries 197788
Mean x −2.052
Mean y 1.006
Std Dev x 6.499
Std Dev y 0.03513
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
800
600
400
200
0

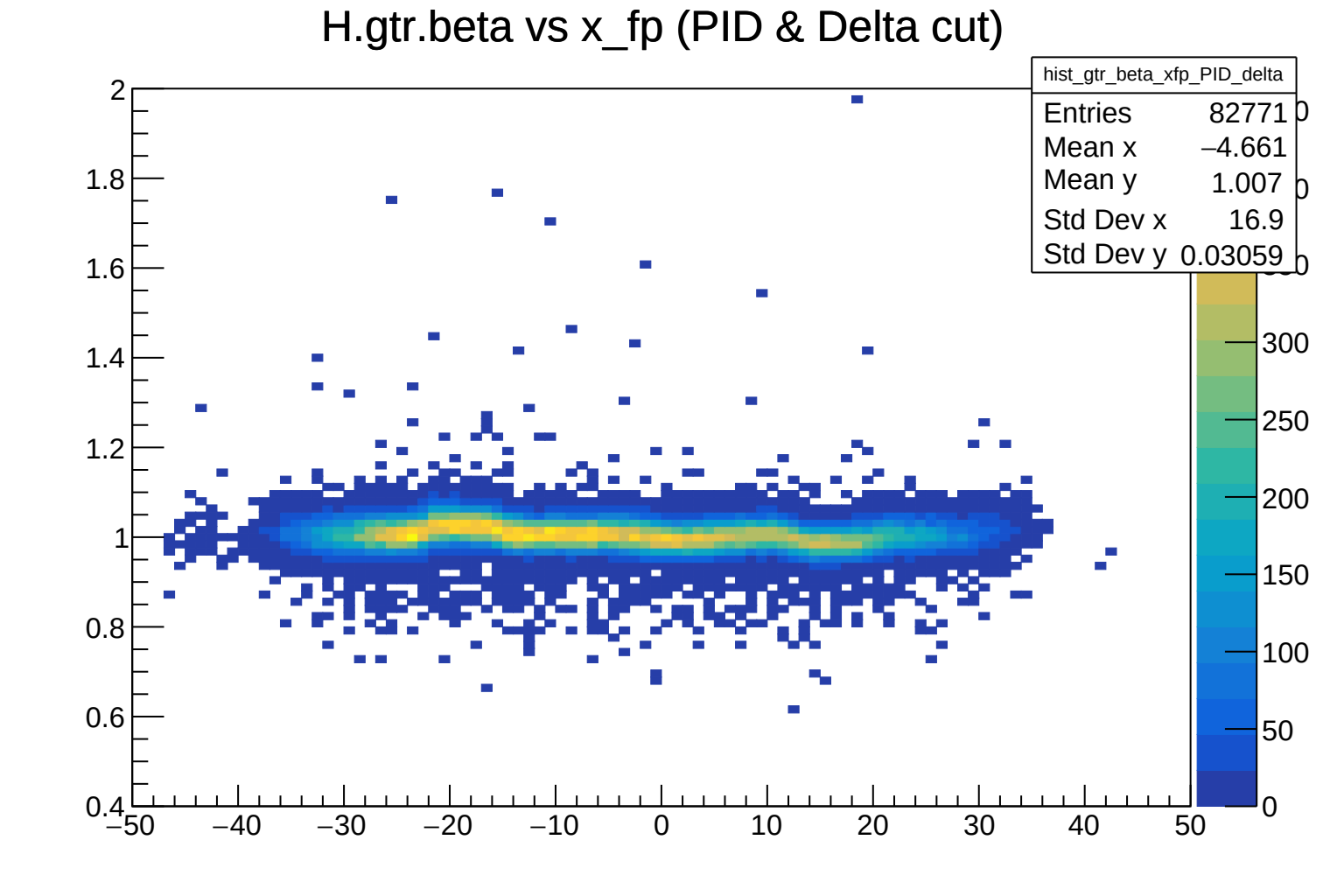

focal plane (PID cut)
hist_yfp_xfp_PID
Entries 119087
Mean x −7.75
Mean y −0.1089
Std Dev x 23.73
Std Dev y 7.884
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
80
60
40
20
0

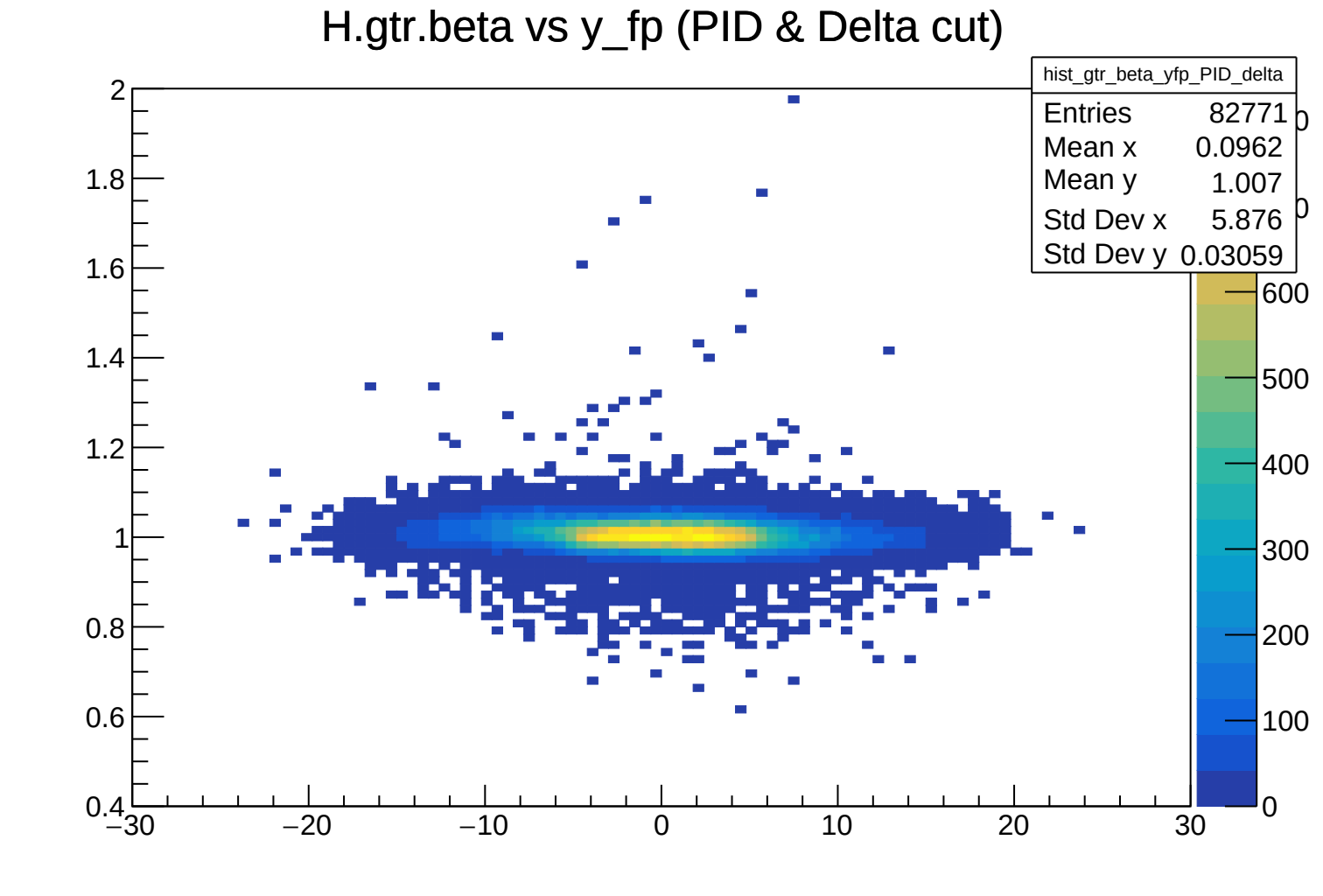

H.gtr.beta vs x_fp (PID cut)
hist_gtr_beta_xfp_PID
Entries 119087
Mean x −7.715
Mean y 1.007
Std Dev x 23.72
Std Dev y 0.03245
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−50
−40
−30
−20
−10
0
10
20
30
40
50
300
250
200
150
100
50
0

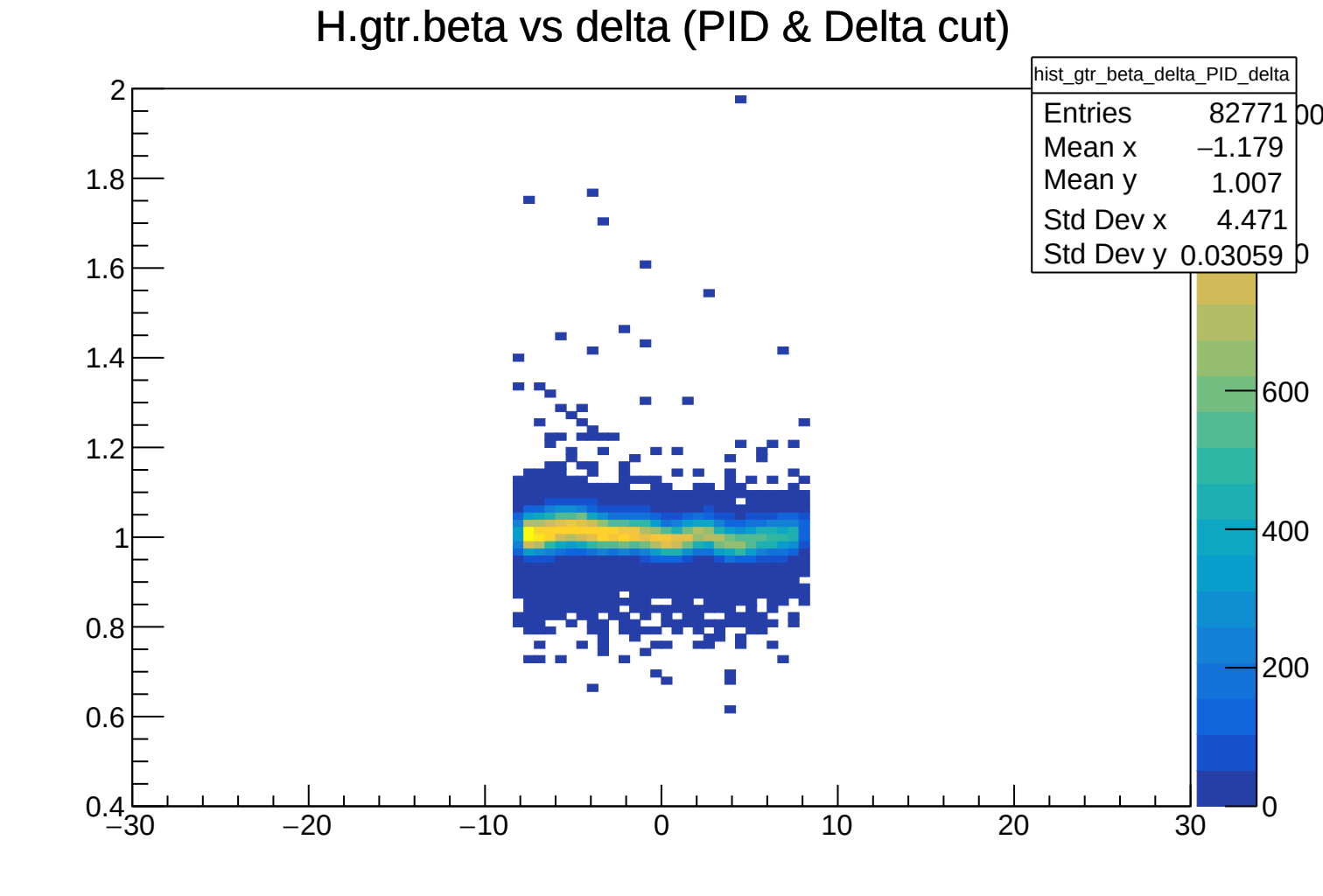

H.gtr.beta vs y_fp (PID cut)
hist_gtr_beta_yfp_PID
Entries 119087
Mean x −0.1082
Mean y 1.007
Std Dev x 7.884
Std Dev y 0.03245
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
700
600
500
400
300
200
100
0


H.gtr.beta vs delta (PID cut)
hist_gtr_beta_delta_PID
Entries 119087
Mean x −1.81
Mean y 1.007
Std Dev x 6.452
Std Dev y 0.03238
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 82771
Mean x –4.663
Mean y 0.09578
Std Dev x 16.9
Std Dev y 5.877
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
80
60
40
20
0


H.gtr.beta vs x_fp (PID & Delta cut)
hist_gtr_beta_xfp_PID_delta
Entries 82771
Mean x −4.661
Mean y 1.007
Std Dev x 16.9
Std Dev y 0.03059
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
250
200
150
100
50
0


H.gtr.beta vs y_fp (PID & Delta cut)
hist_gtr_beta_yfp_PID_delta
Entries 82771
Mean x 0.0962
Mean y 1.007
Std Dev x 5.876
Std Dev y 0.03059
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
600
500
400
300
200
100
0


H.gtr.beta vs delta (PID & Delta cut)
hist_gtr_beta_delta_PID_delta
Entries 82771
Mean x −1.179
Mean y 1.007
Std Dev x 4.471
Std Dev y 0.03059
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
600
400
200
0