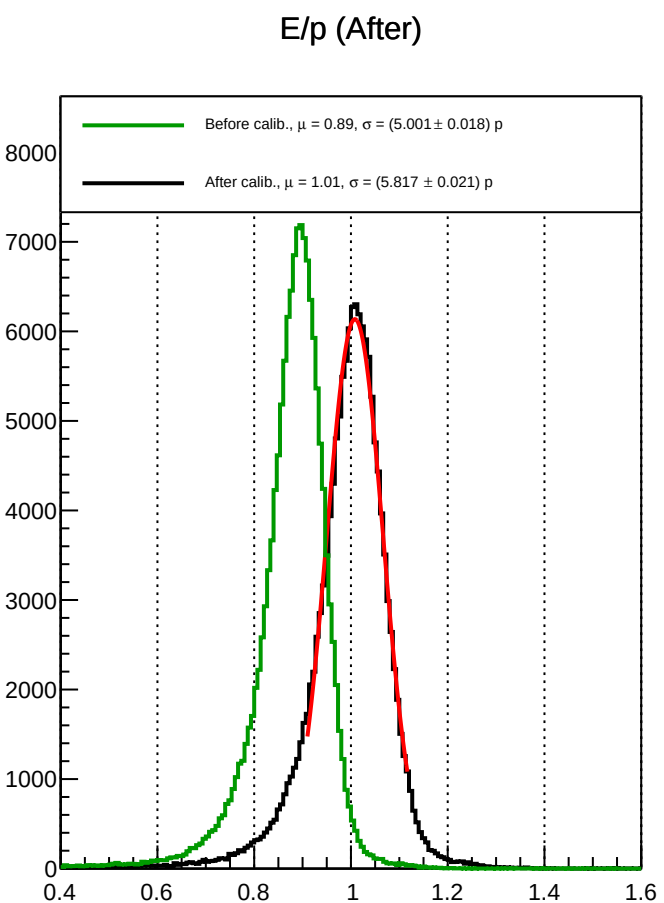
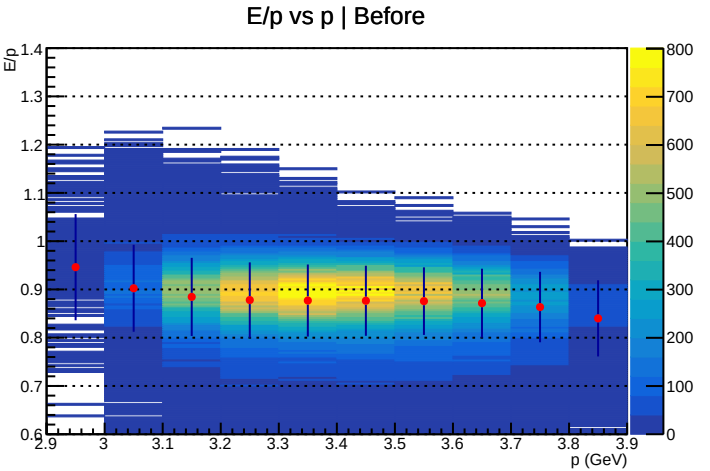
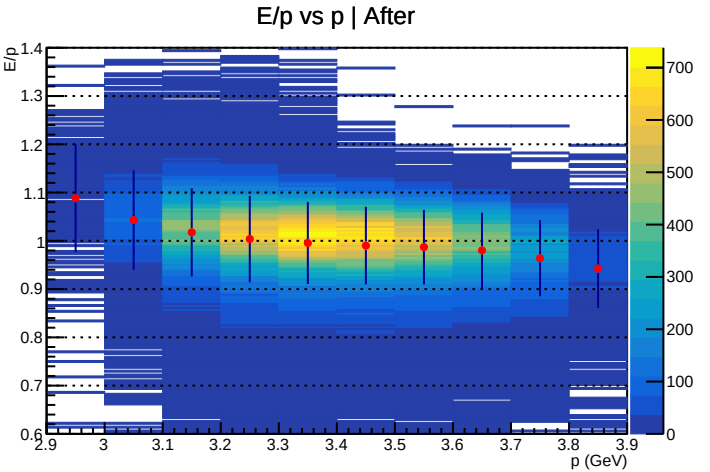
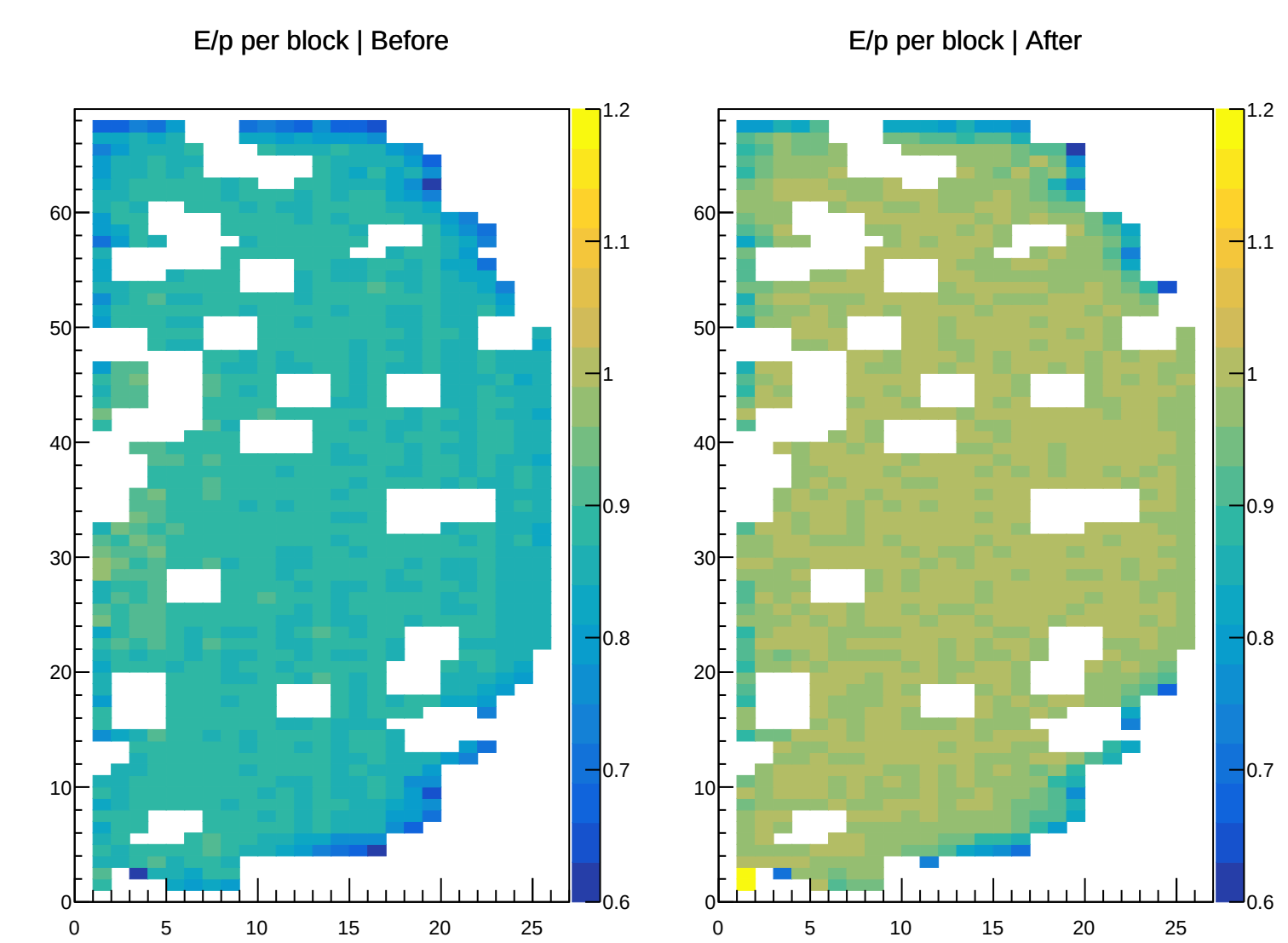
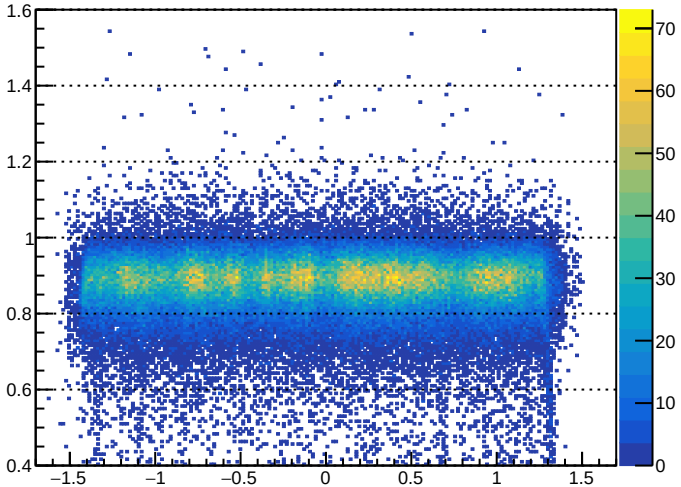

E/p (After)
Before calib., μ = 0.89, σ = (5.001± 0.018) p
After calib., μ = 1.01, σ = (5.817 ± 0.021) p
8000
7000
6000
5000
4000
3000
2000
1000
0
0.4
0.6
0.8
1
1.2
1.4
1.6


E/p vs p | Before
E/p
1.4
1.3
1.2
1.1
1
0.9
0.8
0.7
0.6
2.9
3
3.1
3.2
3.3
3.4
3.5
3.6
3.7
3.8
3.9
p (GeV)
800
700
600
500
400
300
200
100
0

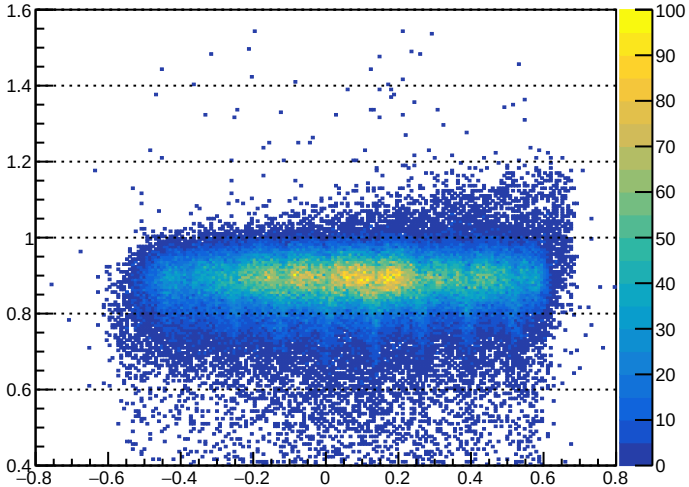

E/p vs p | After
E/p
1.4
1.3
1.2
1.1
1
0.9
0.8
0.7
0.6
2.9
3
3.1
3.2
3.3
3.4
3.5
3.6
3.7
3.8
3.9
p (GeV)
700
600
500
400
300
200
100
0


E/p per block | Before
E/p per block | After
0
10
20
30
40
50
60
0
5
10
15
20
25
0.6
0.7
0.8
0.9
1
1.1
1.2

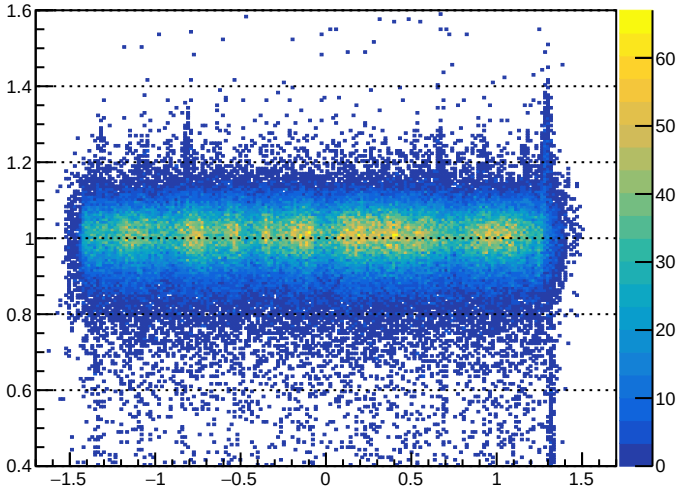
E/p vs xECAL Expected | Before



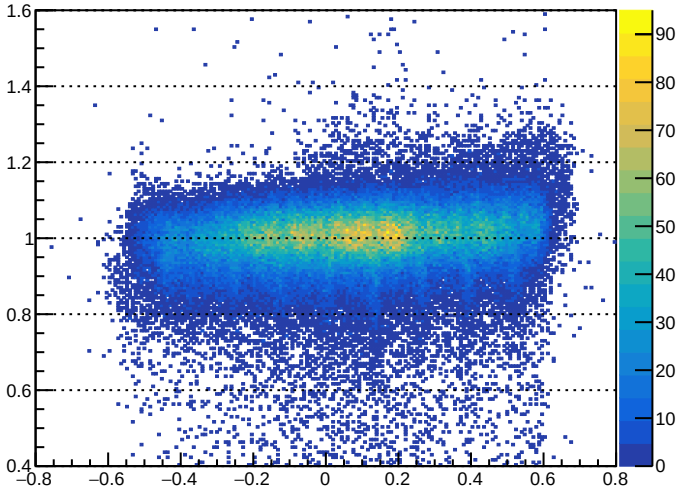
E/p vs yECAL Expected | Before



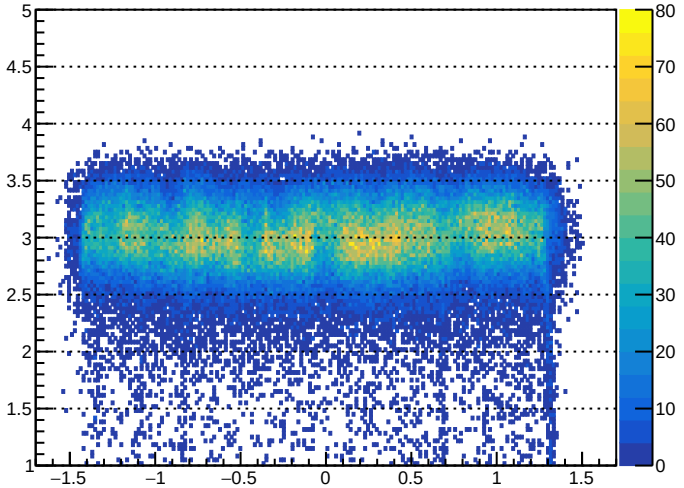
E/p vs xECAL Expected | After



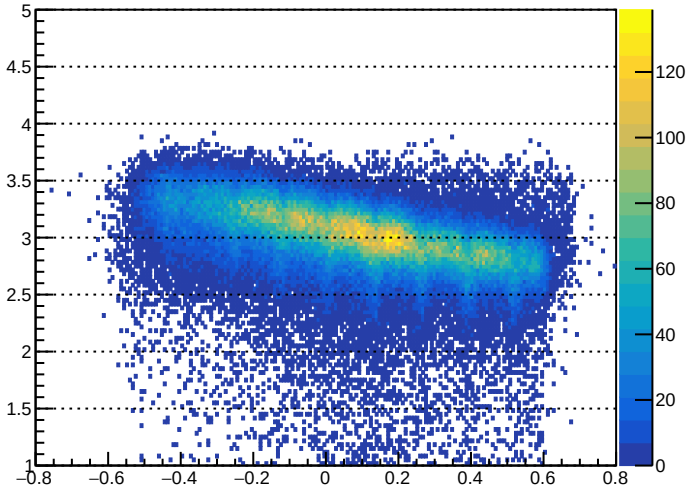
E/p vs yECAL Expected | After



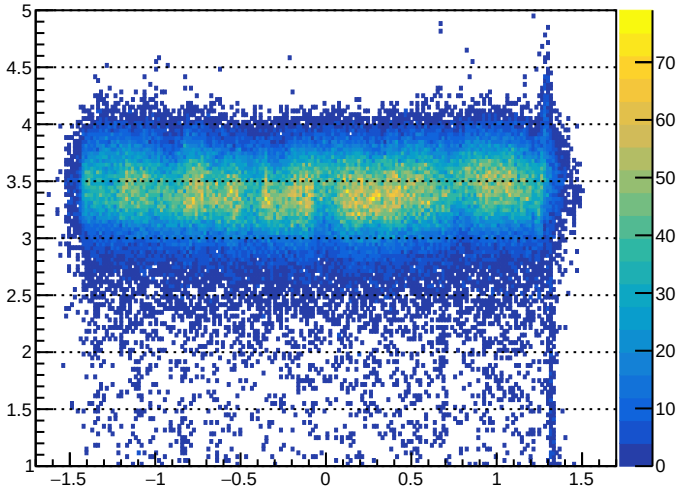
ECAL energy vs xECAL Expected | Before



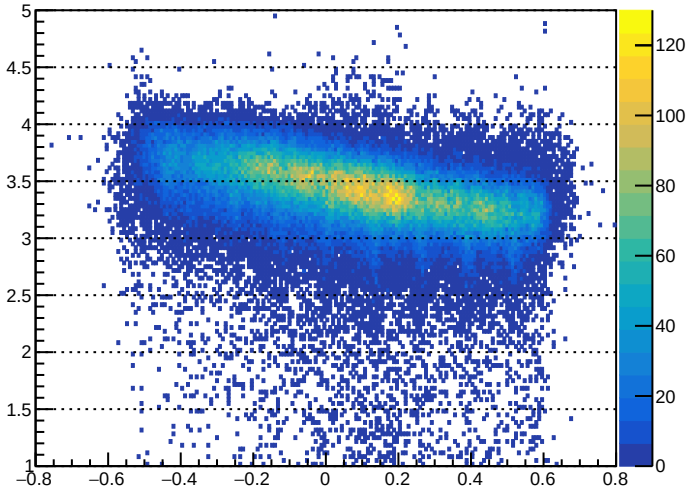
ECAL energy vs yECAL Expected | Before

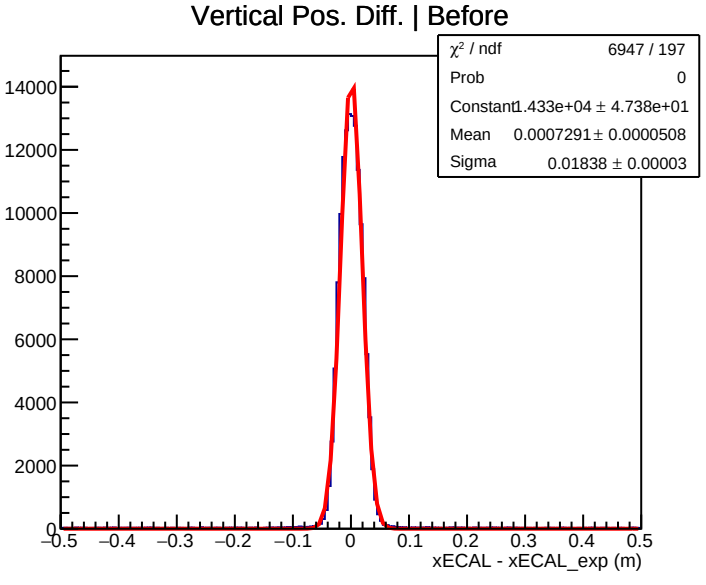


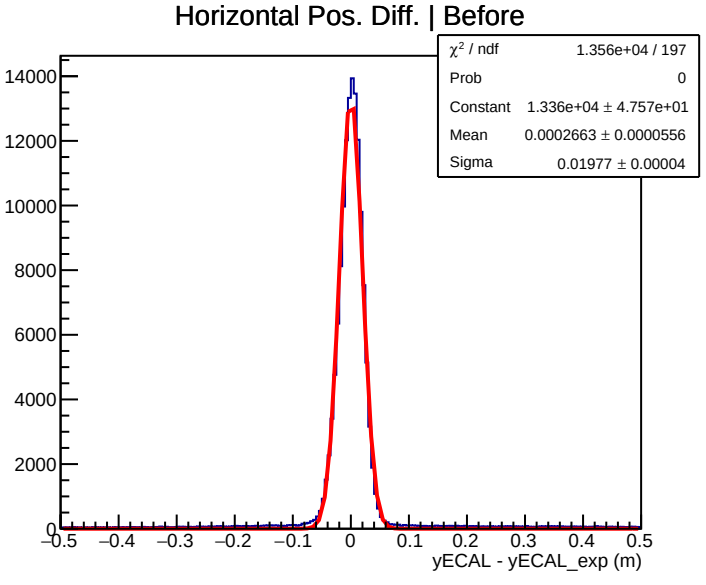
ECAL energy vs xECAL Expected | After

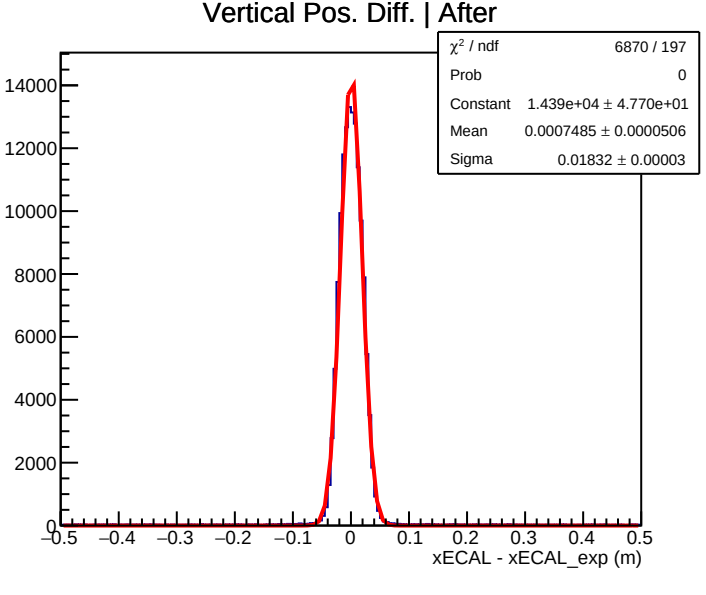


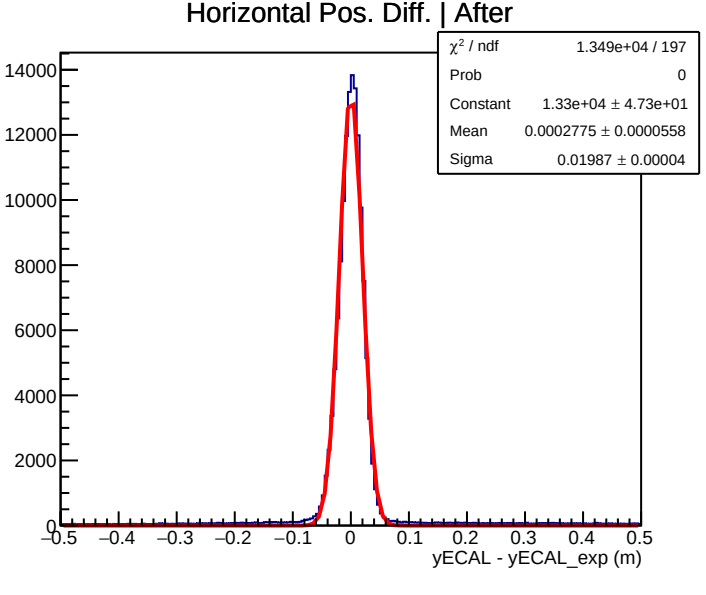
ECAL energy vs yECAL Expected | After



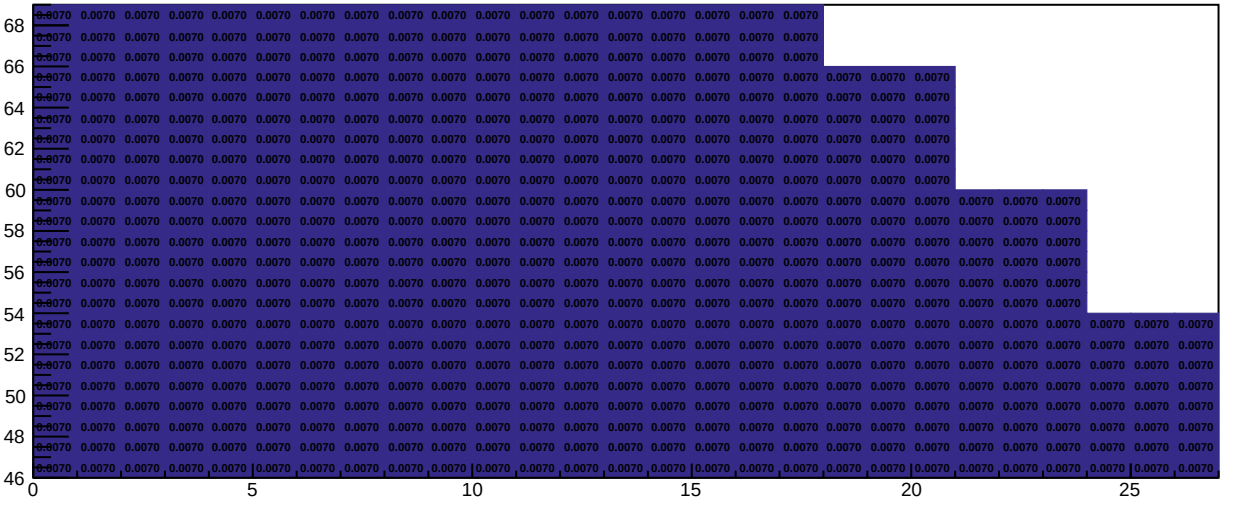

Vertical Pos. Diff. | Before
χ² / ndf 6947 / 197
Prob 0
Constant 1.433e+04 ± 4.738e+01
Mean 0.0007291 ± 0.0000508
Sigma 0.01838 ± 0.00003
xECAL - xECAL_exp (m)


Horizontal Pos. Diff. | Before
χ² / ndf 1.356e+04 / 197
Prob 0
Constant 1.336e+04 ± 4.757e+01
Mean 0.0002663 ± 0.0000556
Sigma 0.01977 ± 0.00004
yECAL - yECAL_exp (m)

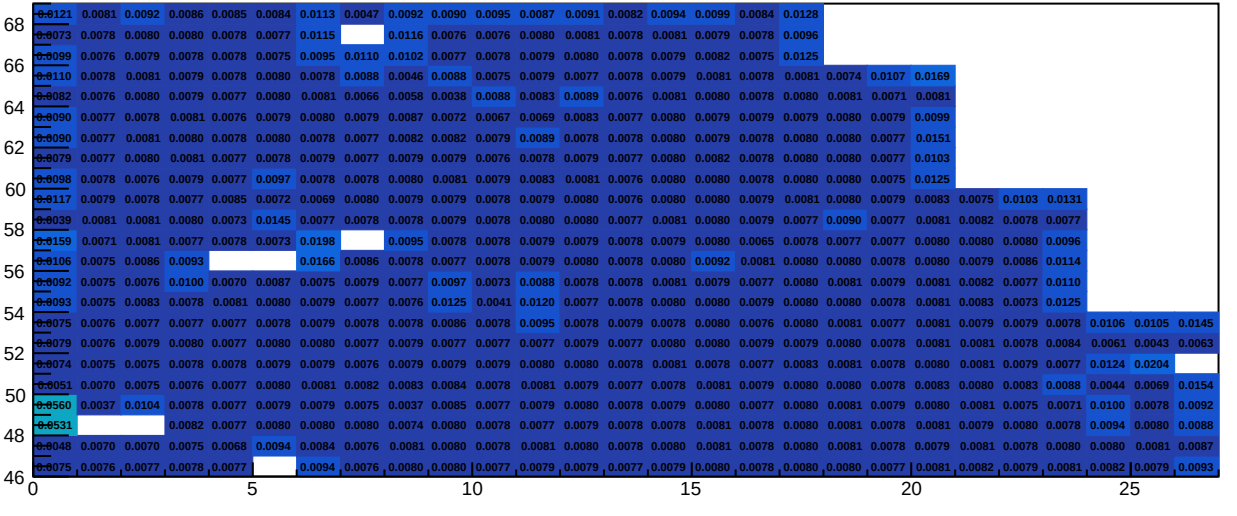

Vertical Pos. Diff. | After
χ² / ndf 6870 / 197
Prob 0
Constant 1.439e+04 ± 4.770e+01
Mean 0.0007485 ± 0.0000506
Sigma 0.01832 ± 0.00003
xECAL - xECAL_exp (m)


Horizontal Pos. Diff. | After
χ² / ndf 1.349e+04 / 197
Prob 0
Constant 1.33e+04 ± 4.73e+01
Mean 0.0002775 ± 0.0000558
Sigma 0.01987 ± 0.00004
yECAL - yECAL_exp (m)

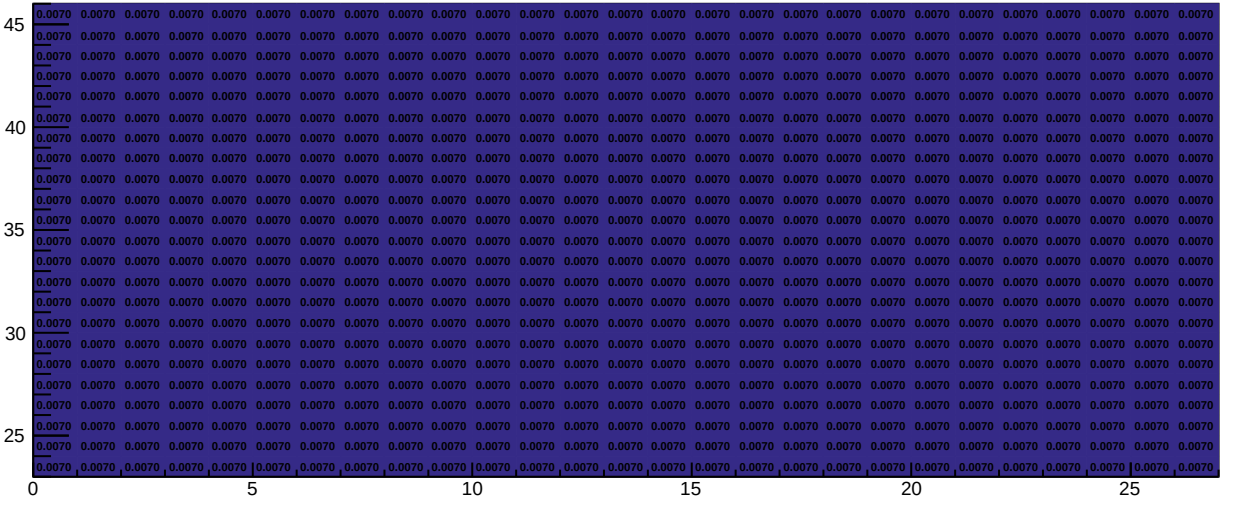
Old ADC Gain Coefficients (Top 23 Rows)



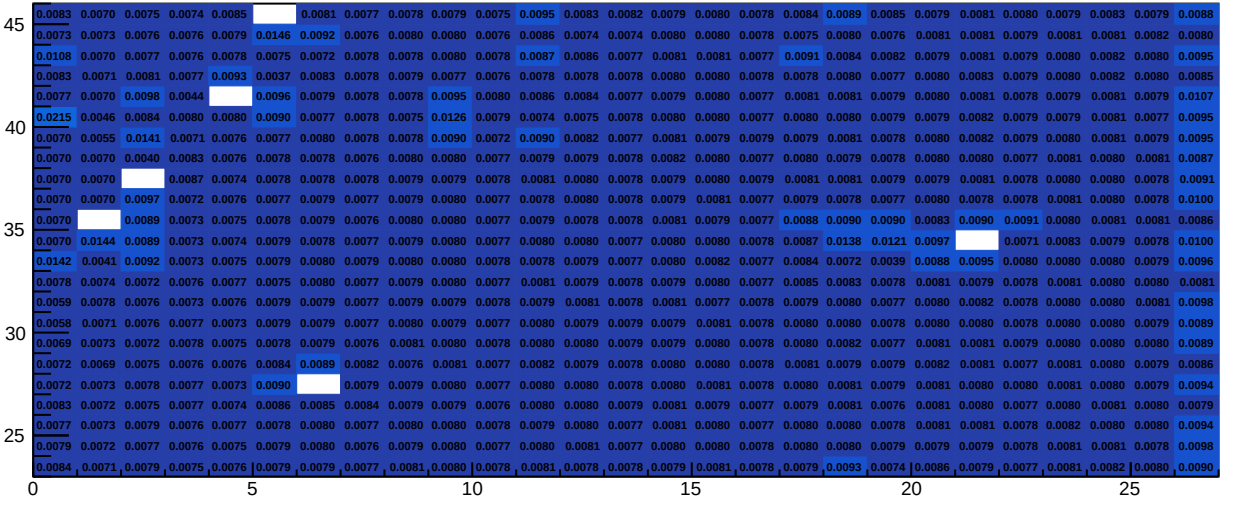
New ADC Gain Coefficients (Top 23 Rows)



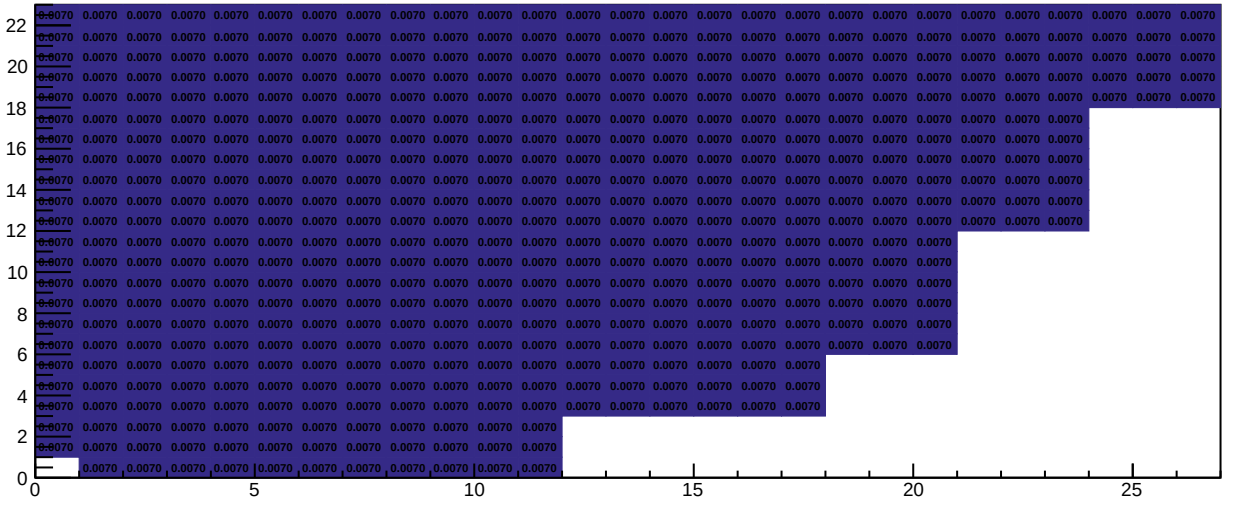
Old ADC Gain Coefficients (Middle 23 Rows)



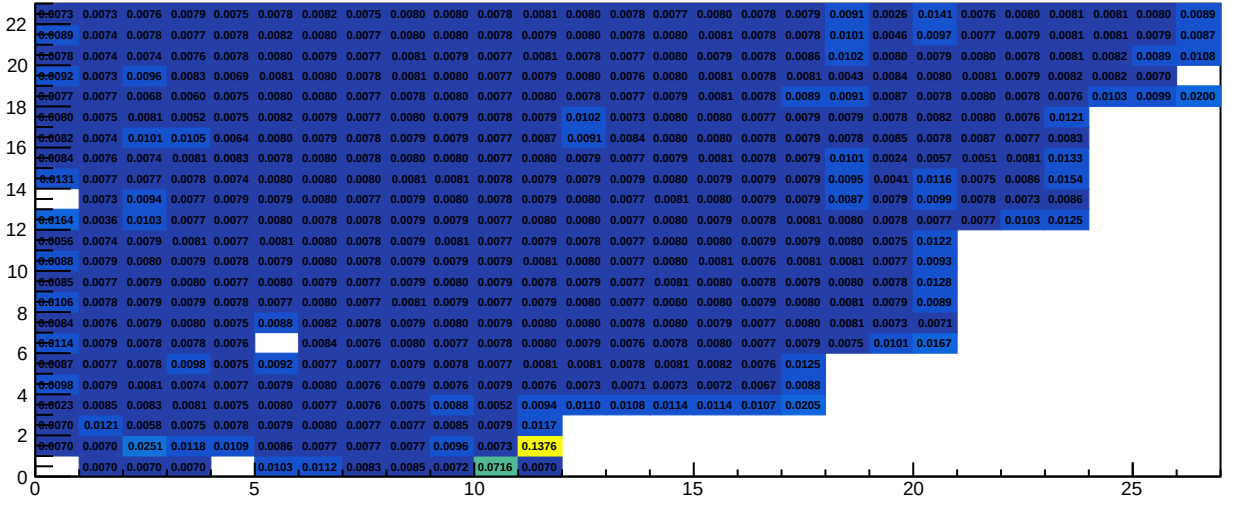
New ADC Gain Coefficients (Middle 23 Rows)



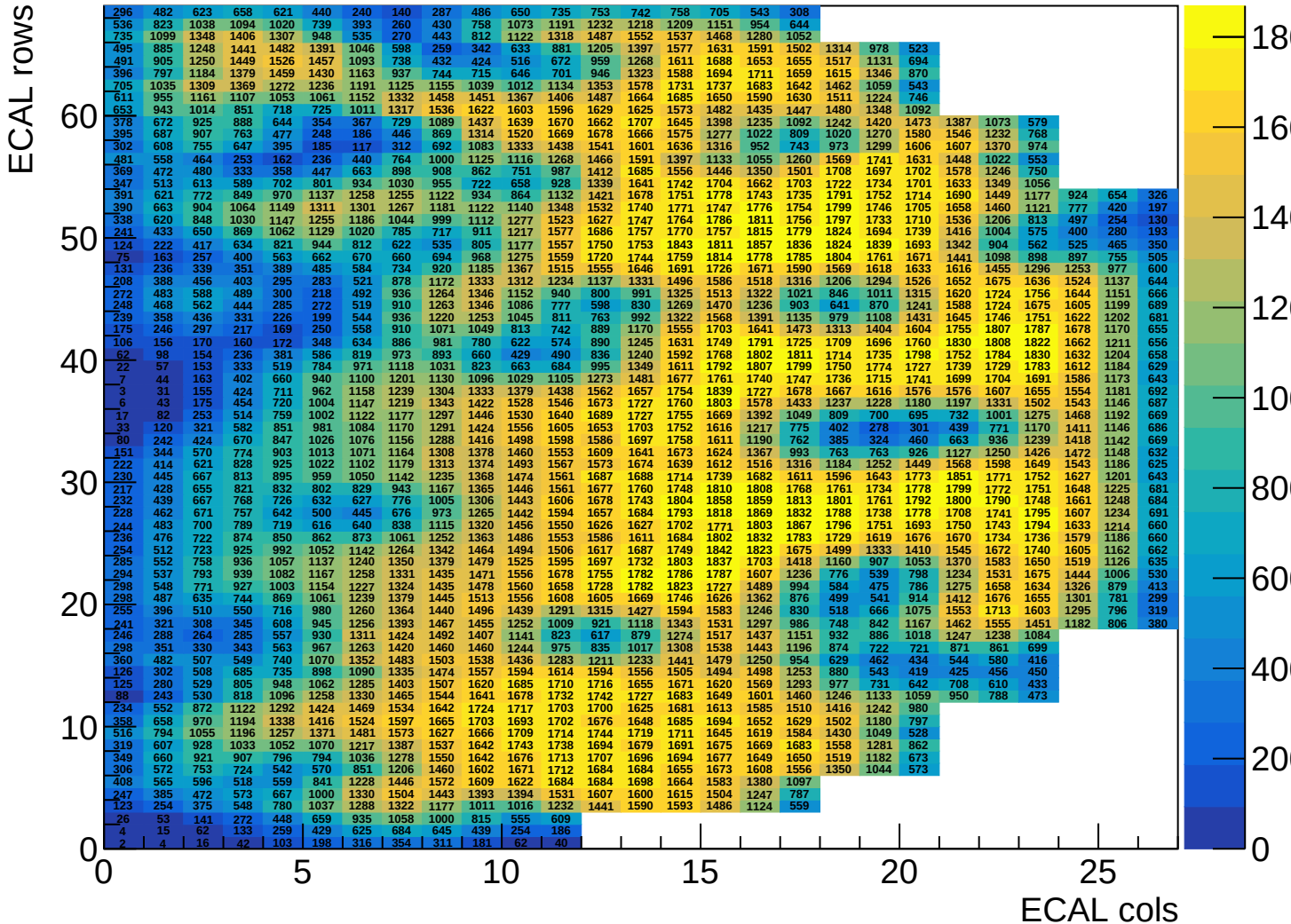
Old ADC Gain Coefficients (Bottom 23 Rows)



New ADC Gain Coefficients (Bottom 23 Rows)



Number of Good Events per Block



Date of creation: 4/6/2025

Configfile: ECAL_replay/scripts/cfg/GEP1_elas_calib_MC.cfg

Total # events analyzed: 569188

E/p (before calib.) | μ = 0.89, σ = (5.001 $\pm$ 0.018) p

E/p (after calib.) | μ = 1.01, σ = (5.817 $\pm$ 0.021) p

Global cuts:

sbs.tr.p[0]<6, sbs.tr.vz[0]<0.1, sbs.tr.vz[0]>-0.25,
sbs.gemFT.track.chi2ndf<10, sbs.hcal.e>0.05,
events passed global cuts: 151569

Other cuts:

Minimum # events per block: 50 | Cluster hit threshold: 0.00 GeV
Cluster tmax cut: 100.0 ns | Cluster energy fraction cut: 0.0 GeV

Macro processing time: CPU 1476.7s | Real 1489.5s