E/p (After)

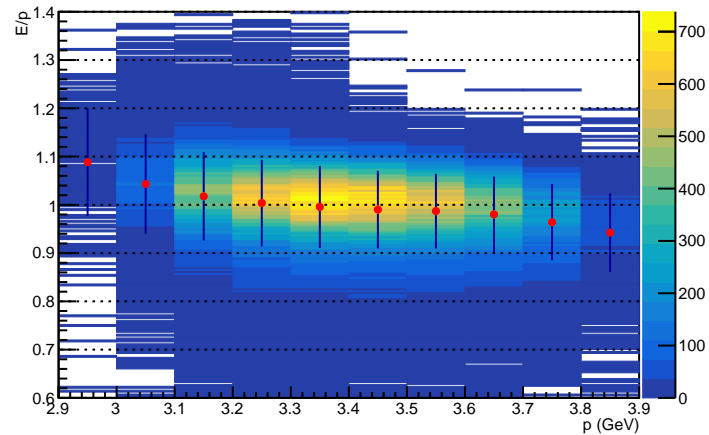Before calib., μ = 0.89, σ = (5.001 ± 0.018) p
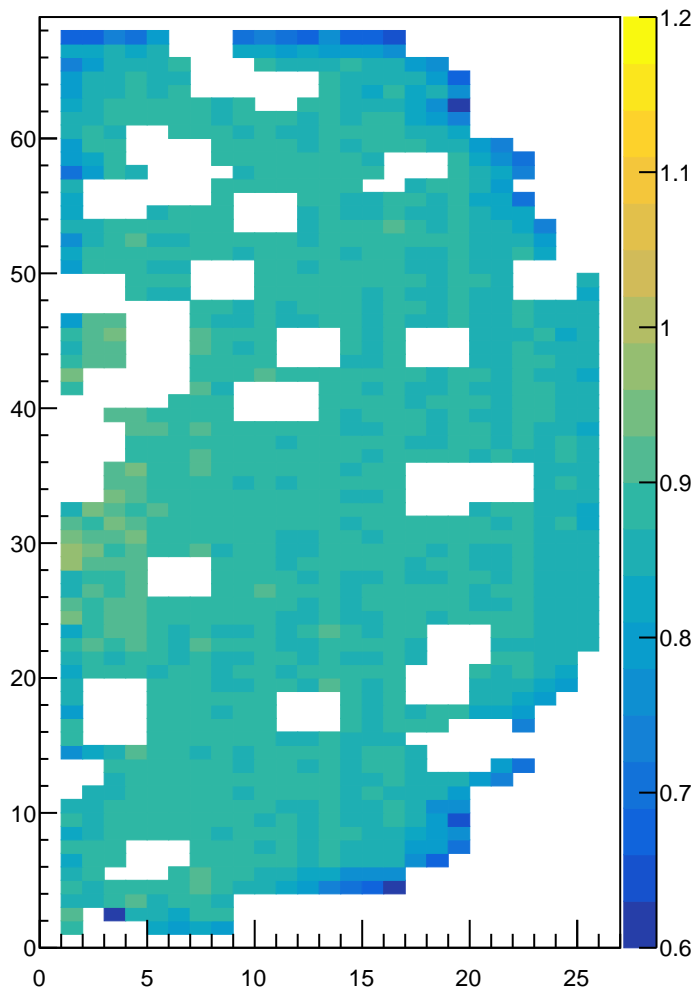
After calib., μ = 1.01, σ = (5.817 ± 0.021) p
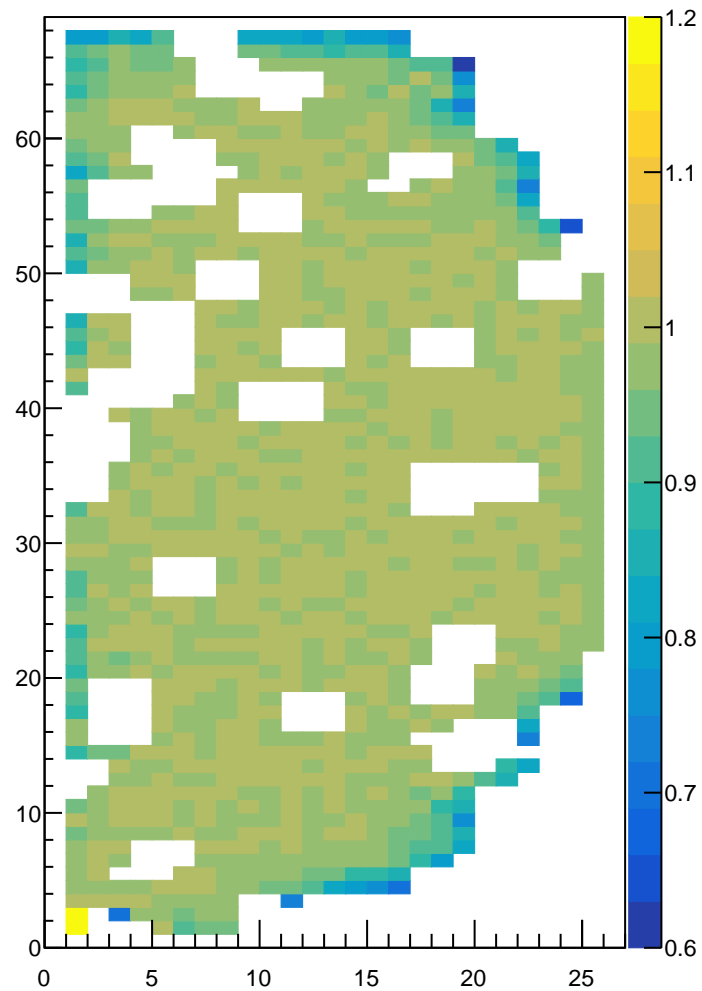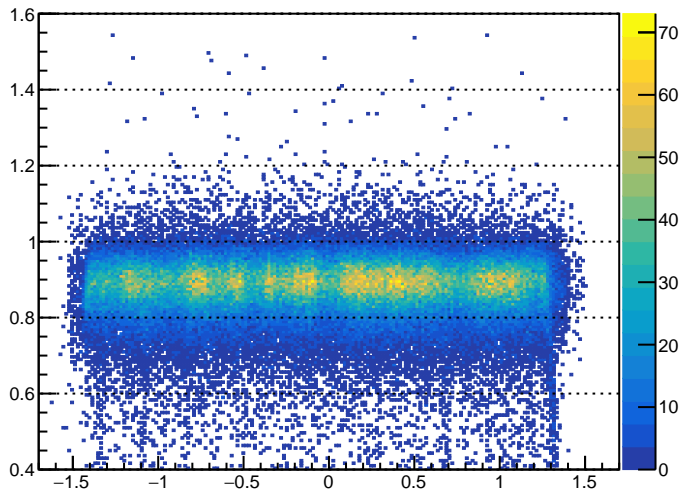
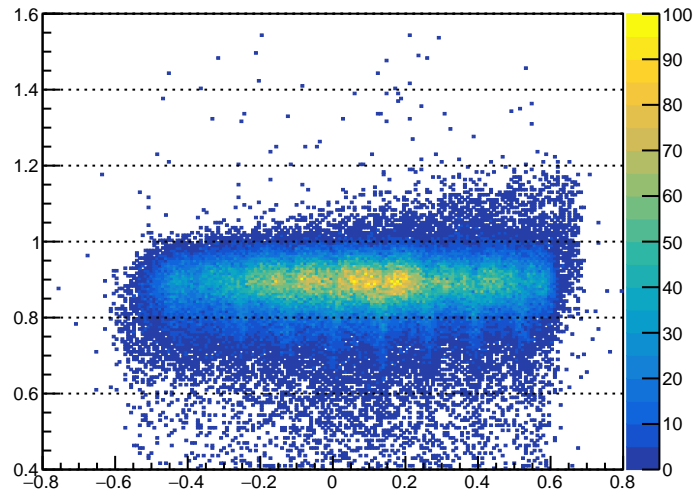E/p vs p | Before

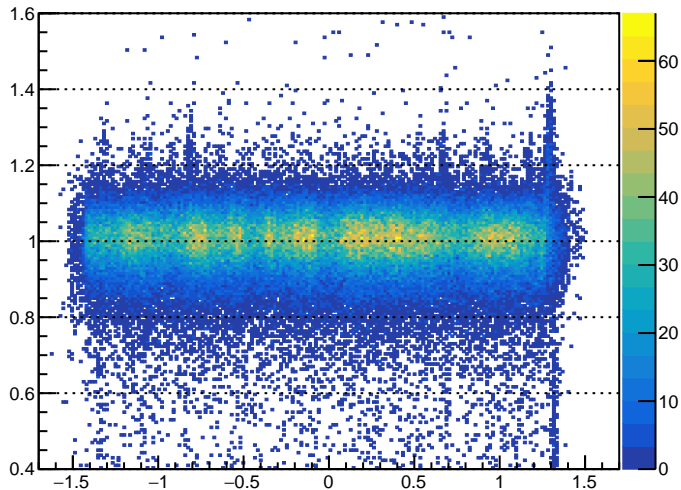E/p vs p | After

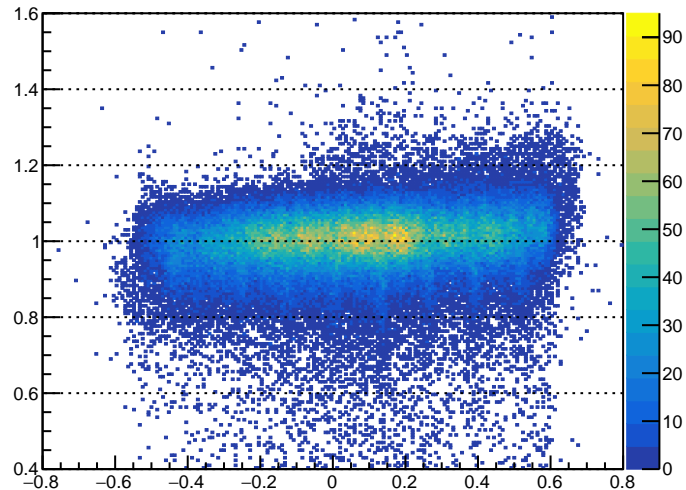E/p per block | Before   E/p per block | After

E/p vs xECAL Expected | Before

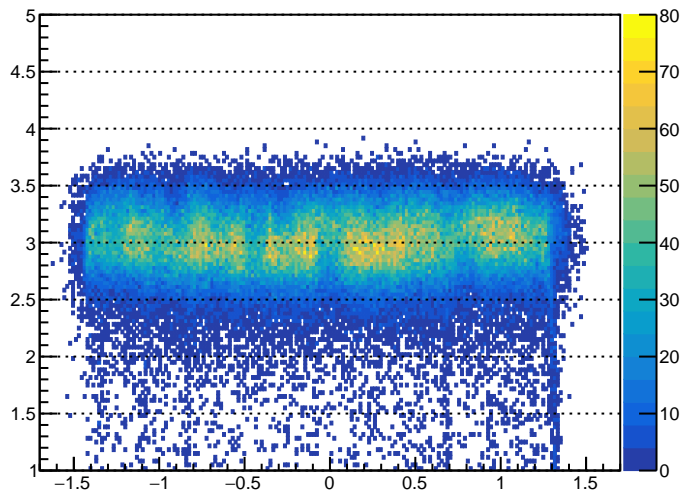**E/p vs yECAL Expected | Before**

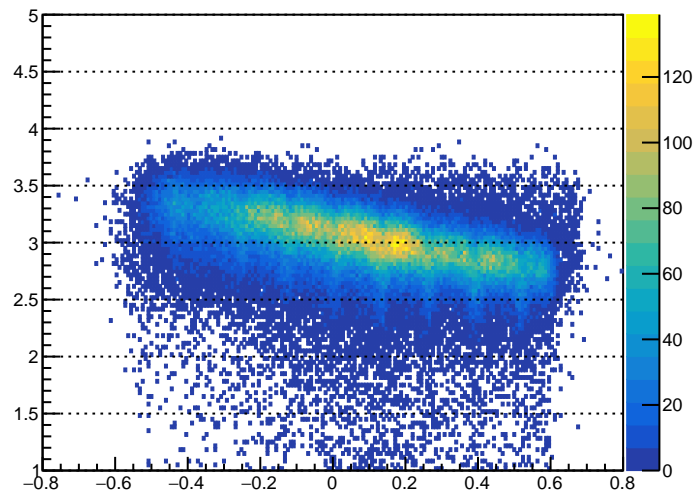**E/p vs xECAL Expected | After**

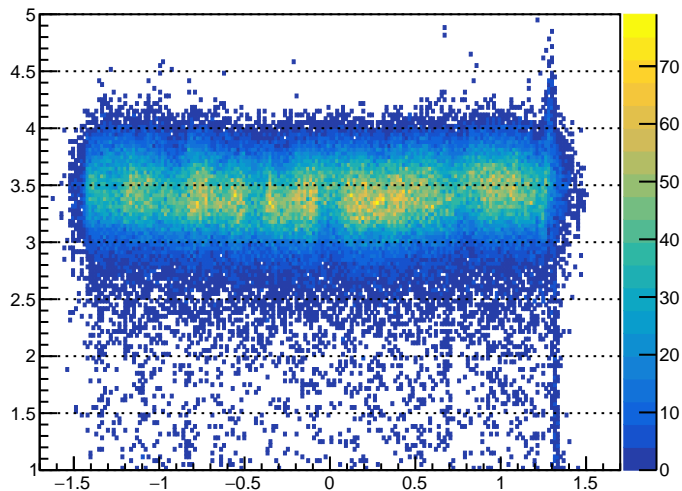**E/p vs yECAL Expected | After**
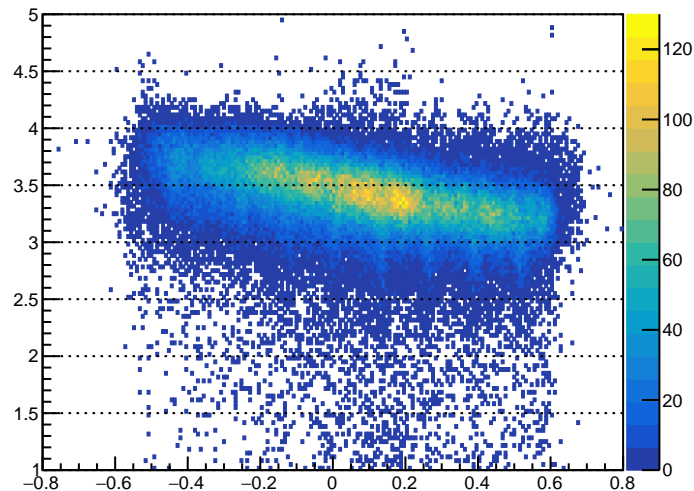
ECAL energy vs xECAL Expected | Before
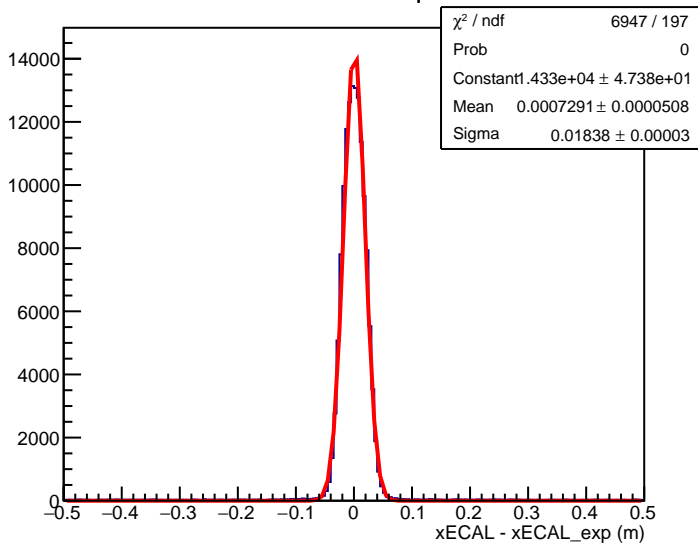
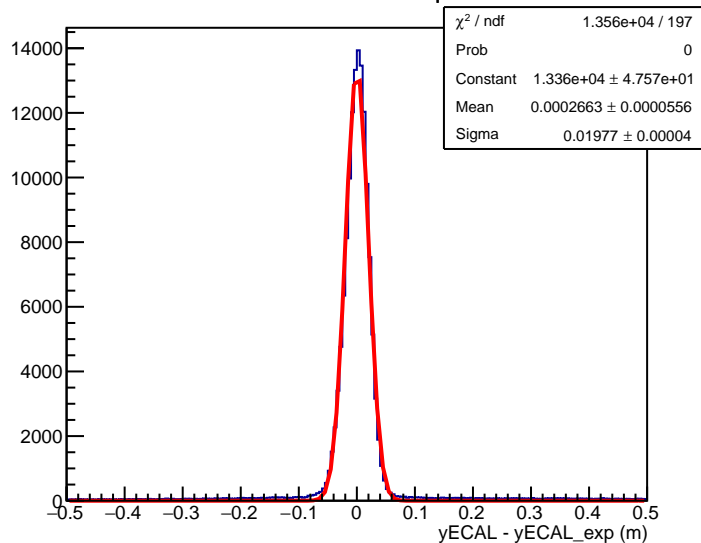ECAL energy vs yECAL Expected | Before

ECAL energy vs xECAL Expected | After

ECAL energy vs yECAL Expected | After

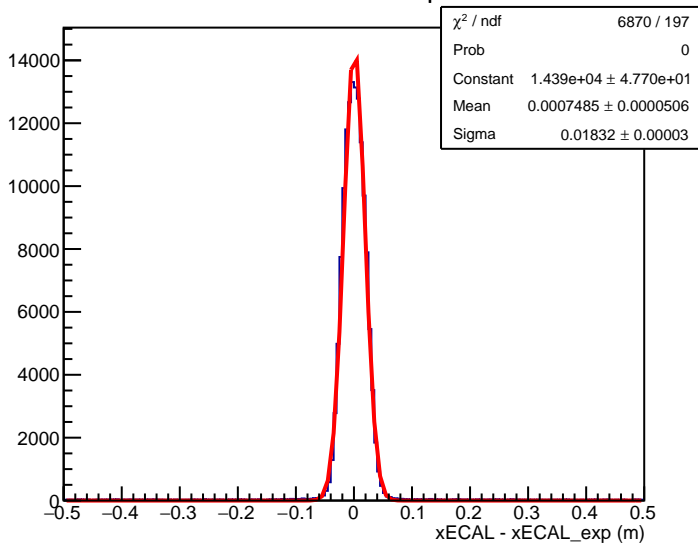|	Vertical Pos. Diff. | Before	
χ^2 / ndf		6947 / 197
Prob		0
Constant		$1.433e{+}04 \pm 4.738e{+}01$
Mean		0.0007291 ± 0.0000508
Sigma		0.01838 ± 0.00003

	Horizontal Pos. Diff. | Before	
χ^2 / ndf		$1.356e{+}04$ / 197
Prob		0
Constant		$1.336e{+}04 \pm 4.757e{+}01$
Mean		0.0002663 ± 0.0000556
Sigma		0.01977 ± 0.00004

	Vertical Pos. Diff. | After	
χ^2 / ndf		6870 / 197
Prob		0
Constant		$1.439e{+}04 \pm 4.770e{+}01$
Mean		0.0007485 ± 0.0000506
Sigma		0.01832 ± 0.00003

	Horizontal Pos. Diff. | After	
χ^2 / ndf		$1.349e{+}04$ / 197
Prob		0
Constant		$1.33e{+}04 \pm 4.73e{+}01$
Mean		0.0002775 ± 0.0000558
Sigma		0.01987 ± 0.00004
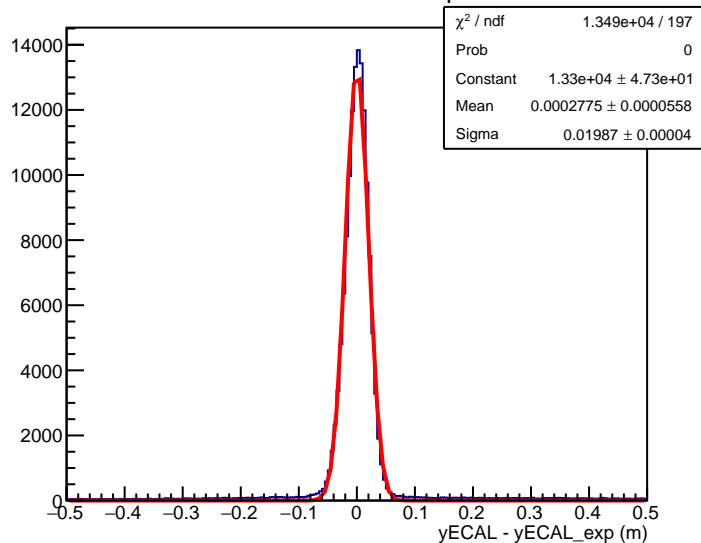
Old ADC Gain Coefficients (Top)

New ADC Gain Coefficients (Top)

Old ADC Gain Coefficients (Middle)

New ADC Gain Coefficients (Middle)

Old ADC Gain Coefficients (Bottom)

New ADC Gain Coefficients (Bottom)

Number of Good Events per Block
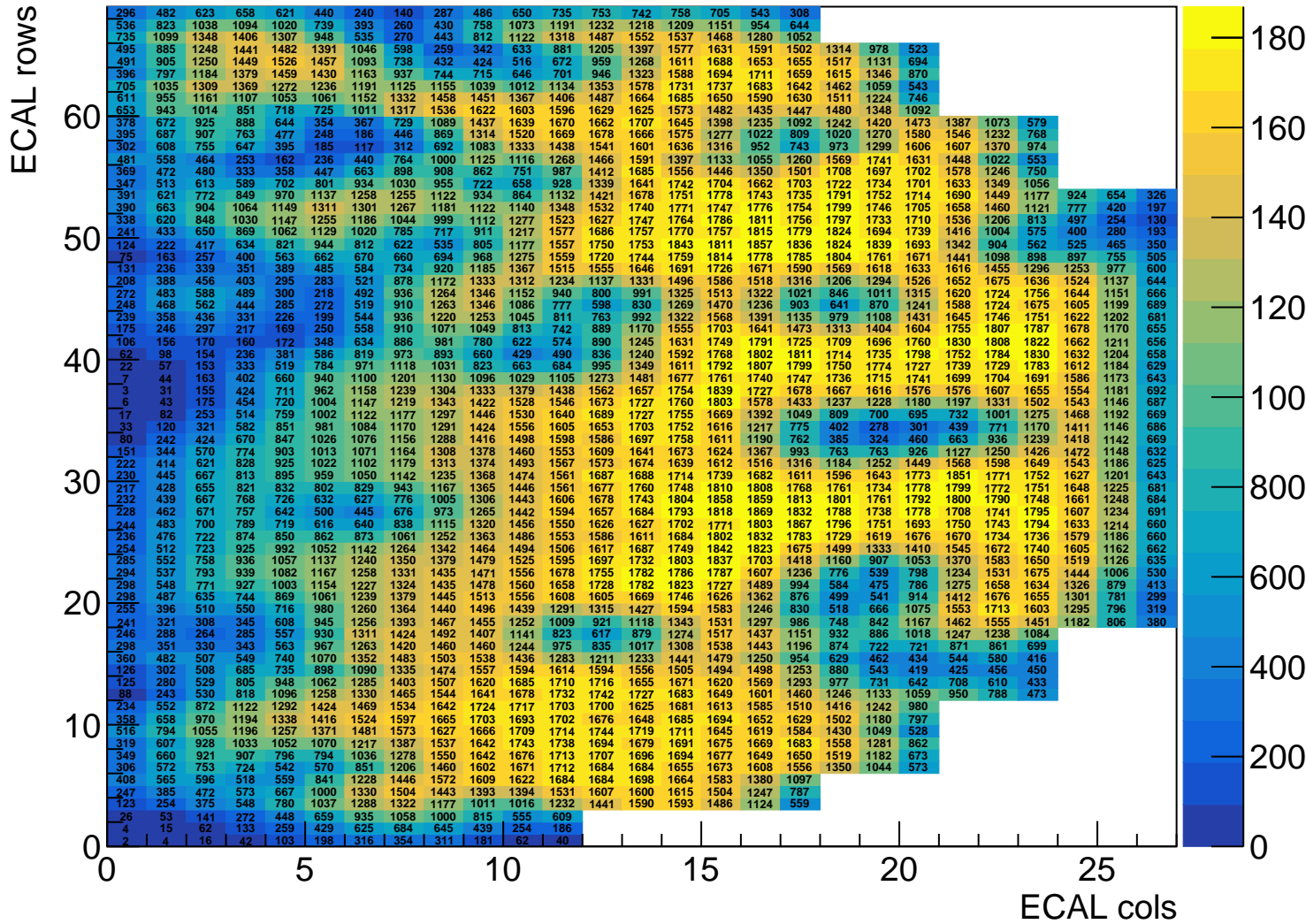
Date of creation: 4/6/2025
Configfile: ECAL_replay/scripts/cfg/GEP1_elas_calib_MC.cfg
Total # events analyzed: 569188
E/p (before calib.) | μ = 0.89, σ = (5.001 $\pm$ 0.018) p
E/p (after calib.) | μ = 1.01, σ = (5.817 $\pm$ 0.021) p
Global cuts:
sbs.tr.p[0]<6, sbs.tr.vz[0]<0.1, sbs.tr.vz[0]>-0.25,
sbs.gemFT.track.chi2ndf<10, sbs.hcal.e>0.05,
 # events passed global cuts: 0
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 1450.5s | Real 1471.4s