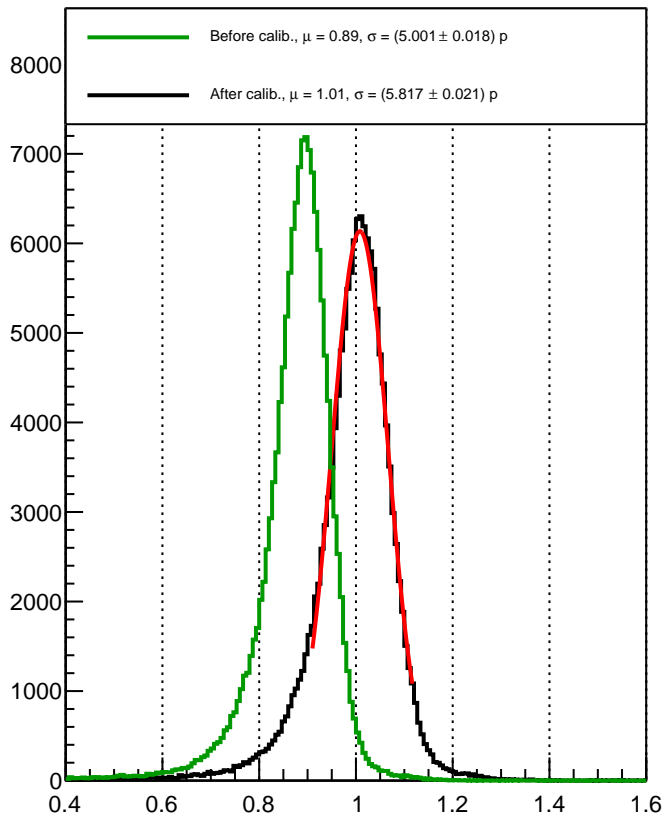
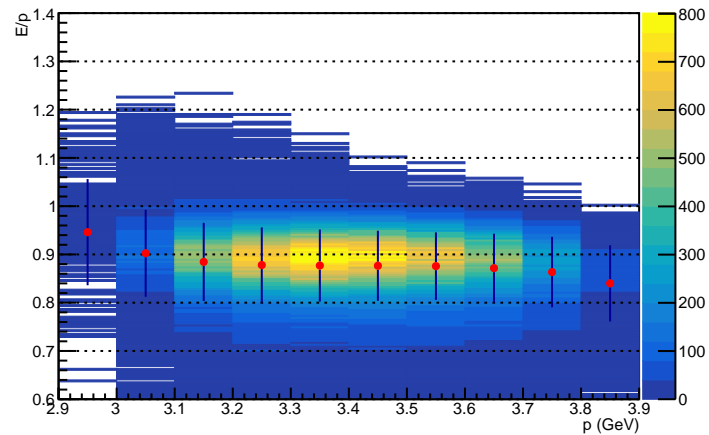


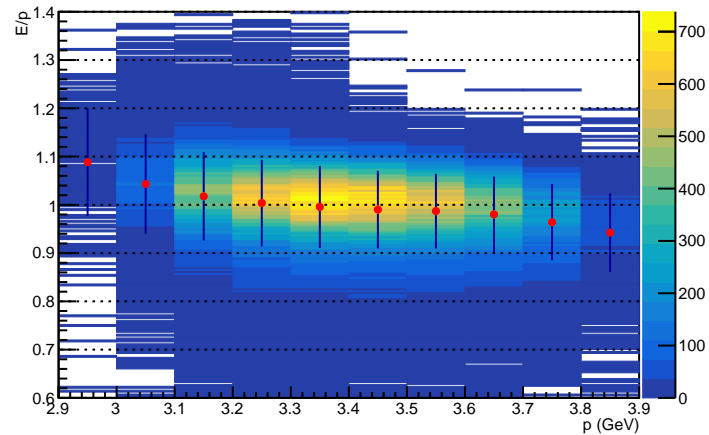
# E/p (After)



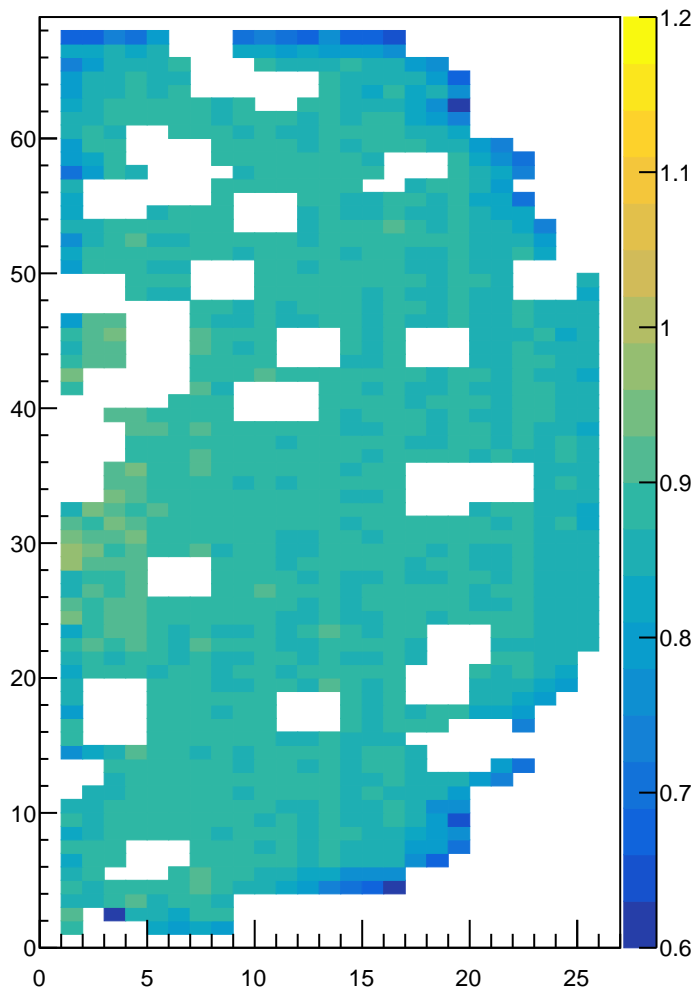
# E/p vs p | Before



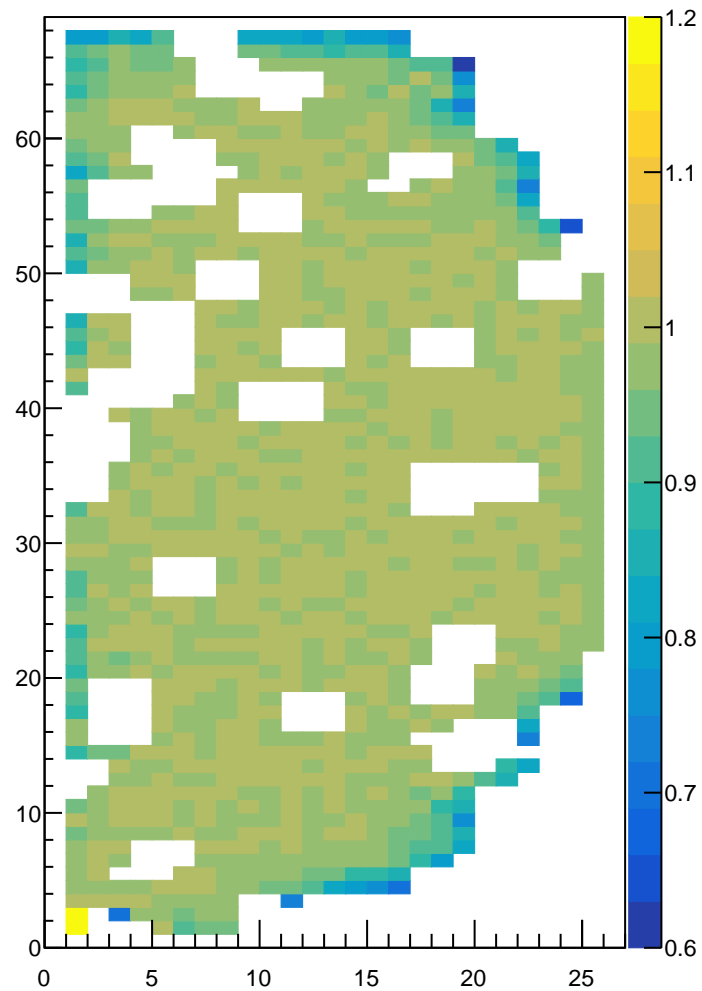
# E/p vs p | After



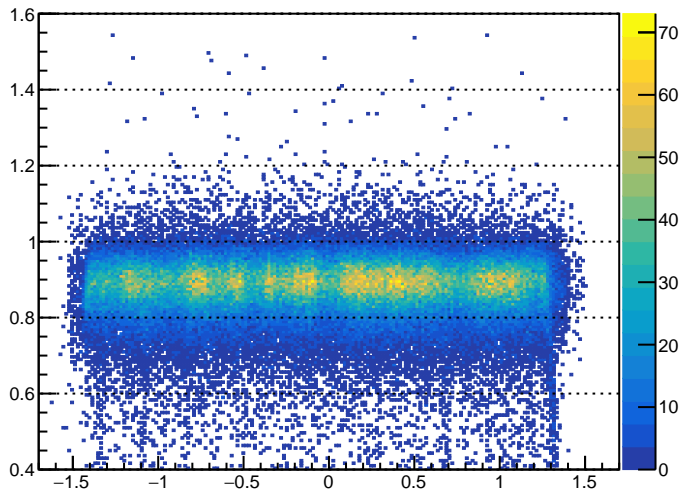
E/p per block | Before



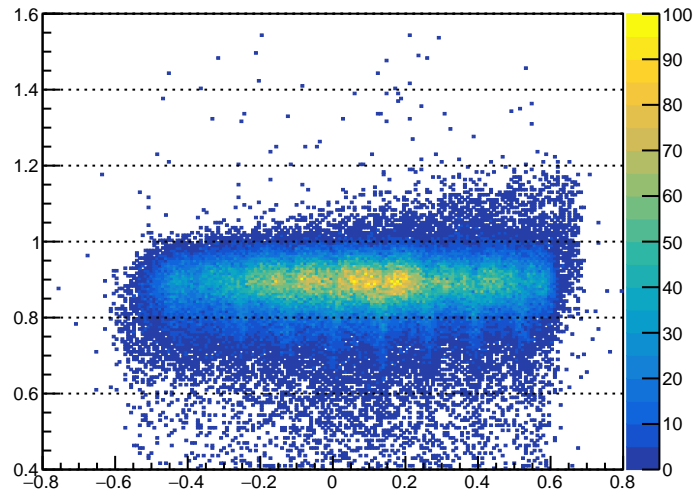
E/p per block | After



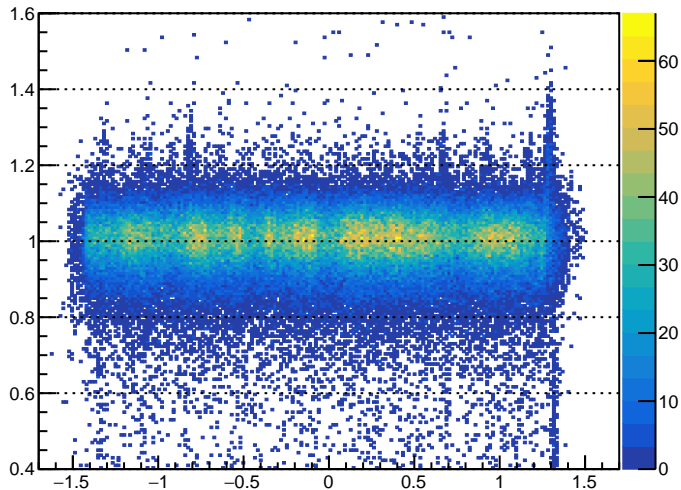
E/p vs xECAL Expected | Before



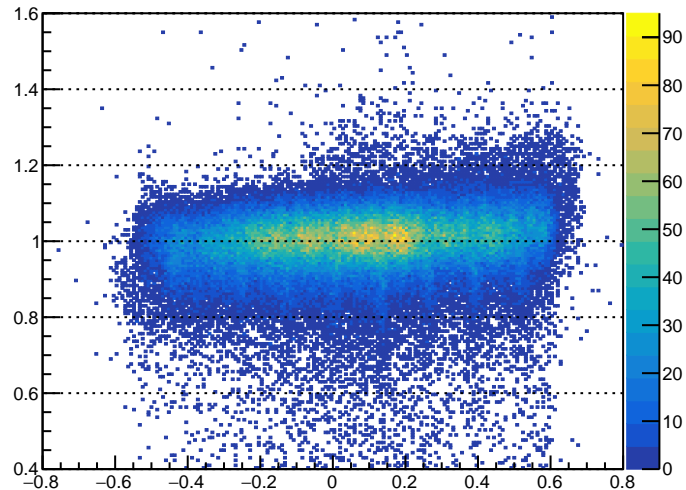
E/p vs yECAL Expected | Before



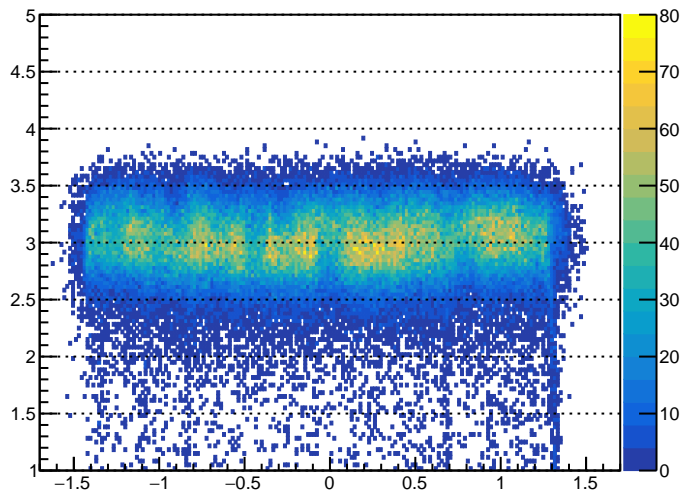
E/p vs xECAL Expected | After



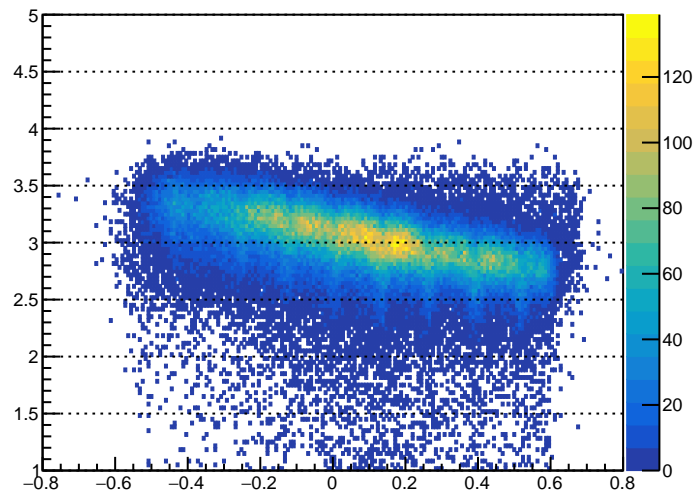
E/p vs yECAL Expected | After



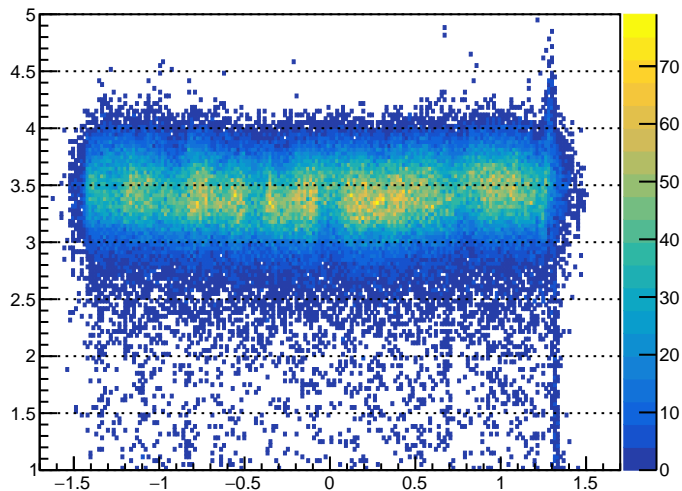
ECAL energy vs xECAL Expected | Before



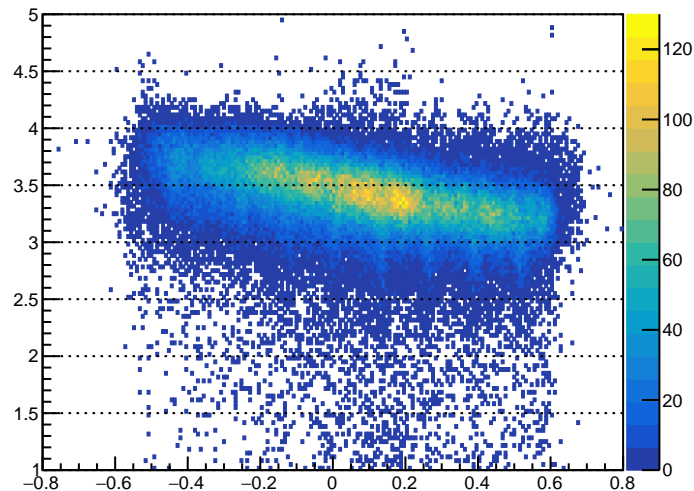
ECAL energy vs yECAL Expected | Before



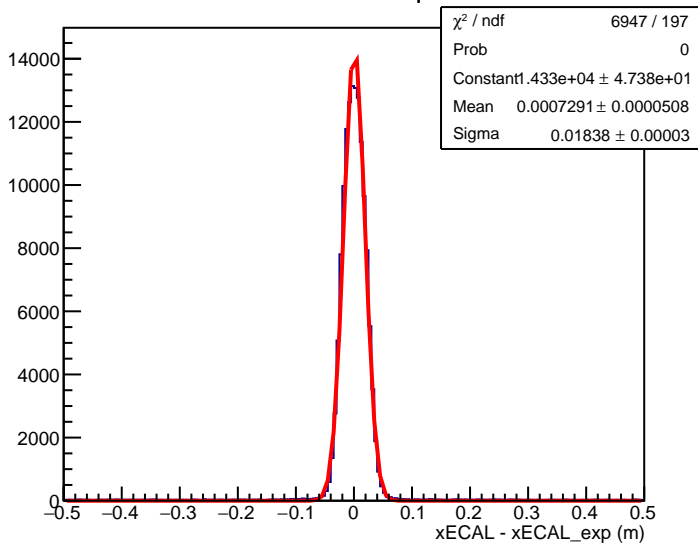
ECAL energy vs xECAL Expected | After



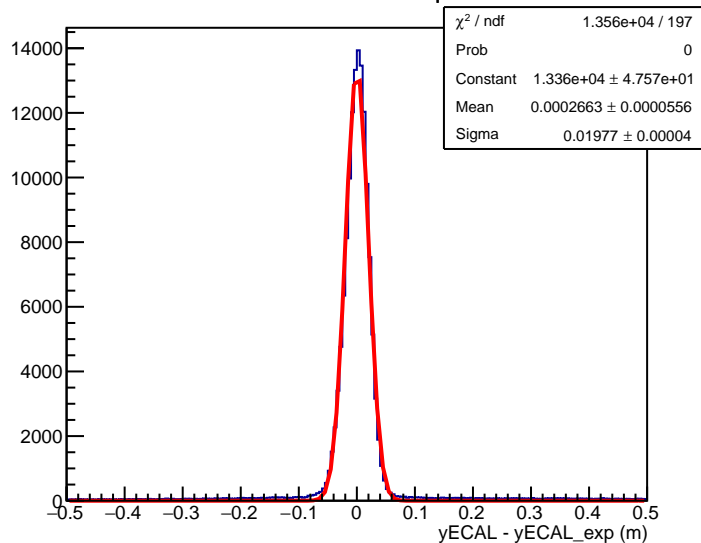
ECAL energy vs yECAL Expected | After



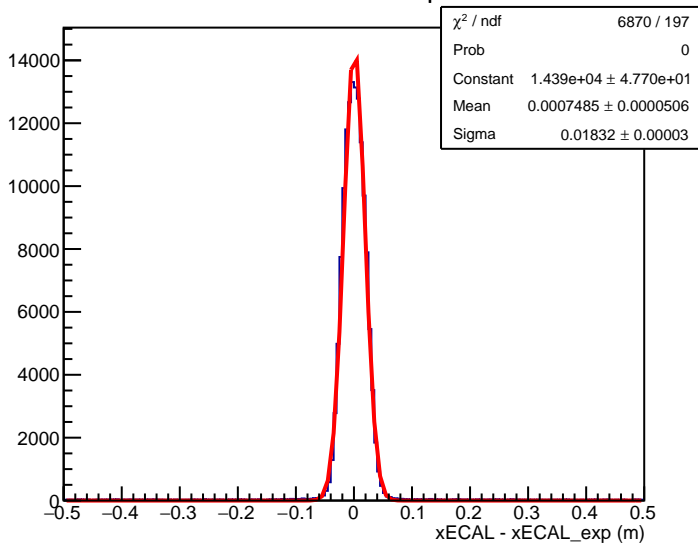
Vertical Pos. Diff. | Before



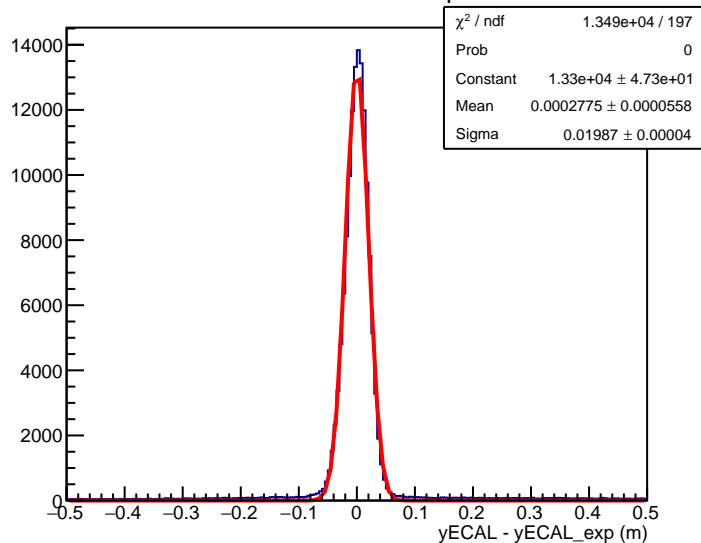
Horizontal Pos. Diff. | Before



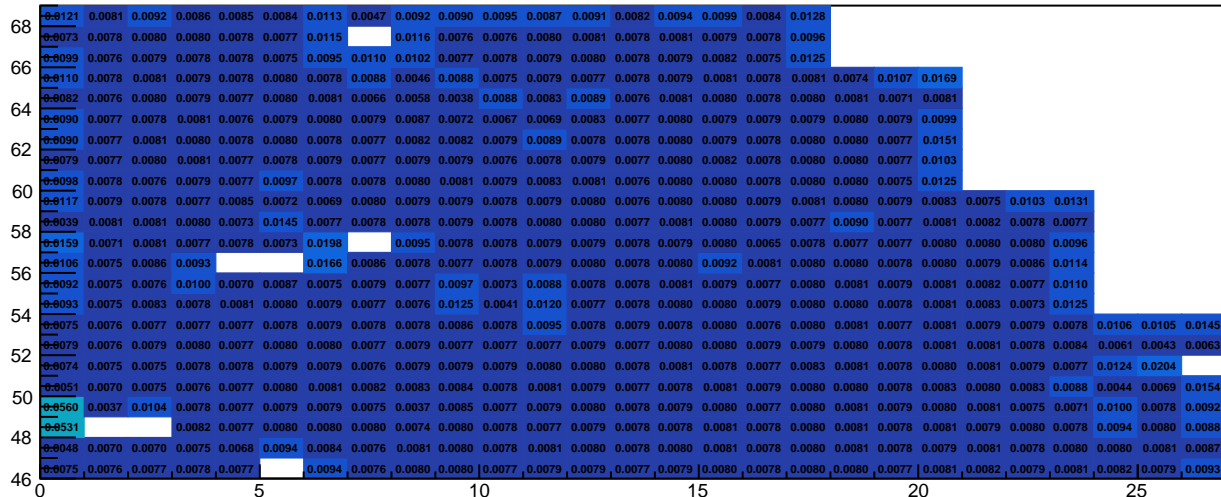
Vertical Pos. Diff. | After



Horizontal Pos. Diff. | After



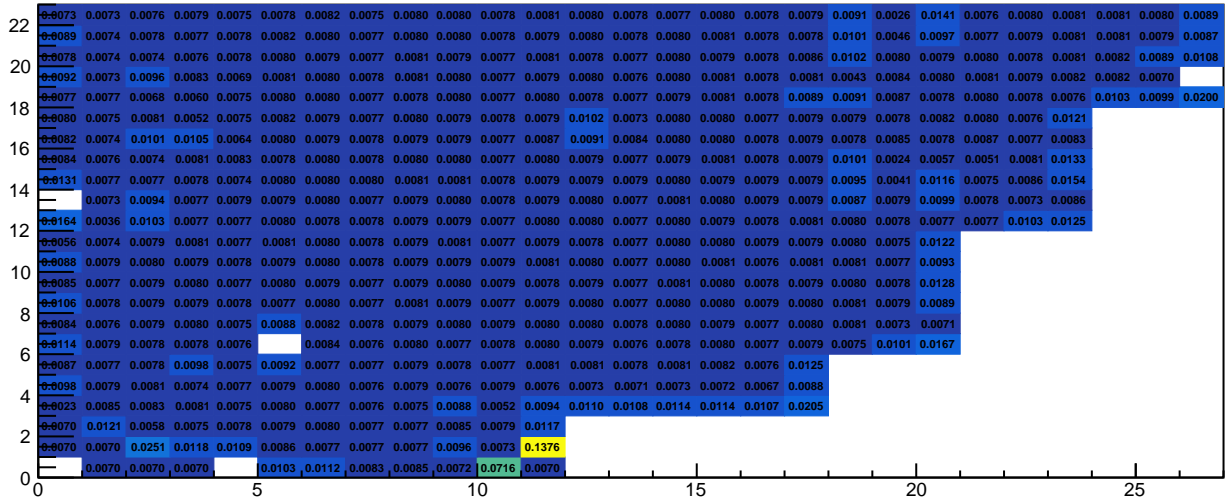
## New ADC Gain Coefficients (Top)



### New ADC Gain Coefficients (Middle)

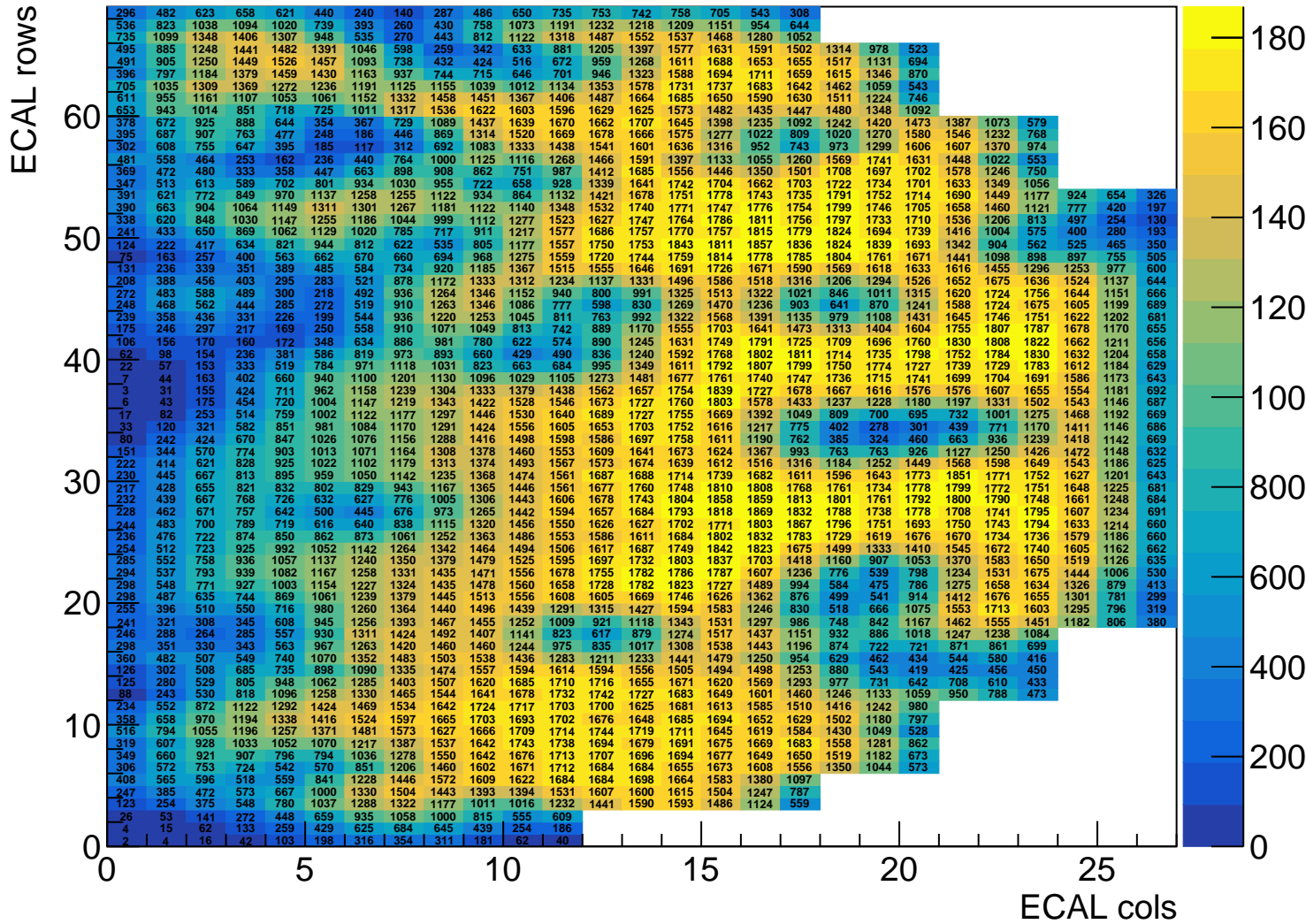
45	0.0083	0.0070	0.0075	0.0074	0.0085		0.0081	0.0077	0.0078	0.0079	0.0075	0.0095	0.0083	0.0082	0.0079	0.0080	0.0078	0.0084	0.0089	0.0085	0.0079	0.0081	0.0080	0.0079	0.0083	0.0079	0.0088
	0.0073	0.0073	0.0076	0.0076	0.0079	0.0146	0.0092	0.0076	0.0080	0.0080	0.0076	0.0086	0.0074	0.0074	0.0080	0.0080	0.0078	0.0075	0.0080	0.0076	0.0081	0.0081	0.0079	0.0081	0.0081	0.0082	0.0080
	0.0108	0.0070	0.0077	0.0076	0.0078	0.0075	0.0072	0.0078	0.0078	0.0080	0.0078	0.0087	0.0086	0.0077	0.0081	0.0080	0.0077	0.0091	0.0084	0.0082	0.0079	0.0081	0.0079	0.0080	0.0082	0.0080	0.0095
	0.0083	0.0071	0.0081	0.0077	0.0093	0.0037	0.0083	0.0078	0.0079	0.0077	0.0076	0.0078	0.0078	0.0078	0.0080	0.0080	0.0078	0.0078	0.0080	0.0077	0.0080	0.0083	0.0079	0.0080	0.0082	0.0080	0.0095
40	0.0077	0.0070	0.0098	0.0044		0.0096	0.0079	0.0078	0.0078	0.0095	0.0080	0.0086	0.0084	0.0077	0.0079	0.0080	0.0077	0.0081	0.0081	0.0079	0.0080	0.0081	0.0078	0.0079	0.0081	0.0079	0.0107
	0.0215	0.0046	0.0084	0.0080	0.0080	0.0090	0.0077	0.0078	0.0075	0.0126	0.0079	0.0074	0.0075	0.0078	0.0080	0.0080	0.0077	0.0080	0.0080	0.0079	0.0079	0.0082	0.0079	0.0079	0.0081	0.0077	0.0095
	0.0070	0.0055	0.0141	0.0071	0.0076	0.0077	0.0080	0.0078	0.0078	0.0090	0.0072	0.0090	0.0082	0.0077	0.0081	0.0079	0.0079	0.0079	0.0081	0.0078	0.0080	0.0082	0.0079	0.0080	0.0081	0.0079	0.0095
	0.0070	0.0070	0.0040	0.0083	0.0076	0.0078	0.0078	0.0076	0.0080	0.0080	0.0077	0.0079	0.0079	0.0078	0.0082	0.0080	0.0077	0.0080	0.0079	0.0078	0.0080	0.0080	0.0077	0.0081	0.0080	0.0081	0.0087
35	0.0070	0.0070		0.0087	0.0074	0.0078	0.0078	0.0078	0.0079	0.0079	0.0078	0.0081	0.0080	0.0078	0.0079	0.0080	0.0079	0.0081	0.0081	0.0079	0.0079	0.0081	0.0078	0.0080	0.0080	0.0078	0.0101
	0.0070	0.0070	0.0097	0.0072	0.0076	0.0077	0.0079	0.0077	0.0079	0.0080	0.0077	0.0078	0.0080	0.0078	0.0079	0.0081	0.0077	0.0079	0.0078	0.0077	0.0080	0.0078	0.0078	0.0081	0.0080	0.0078	0.0100
	0.0070		0.0089	0.0073	0.0075	0.0078	0.0079	0.0076	0.0080	0.0080	0.0077	0.0079	0.0078	0.0078	0.0081	0.0079	0.0077	0.0088	0.0090	0.0090	0.0083	0.0090	0.0091	0.0080	0.0081	0.0081	0.0086
	0.0070	0.0144	0.0089	0.0073	0.0074	0.0079	0.0078	0.0077	0.0079	0.0080	0.0077	0.0080	0.0080	0.0077	0.0080	0.0080	0.0078	0.0087	0.0138	0.0121	0.0097		0.0071	0.0083	0.0079	0.0078	0.0100
30	0.0142	0.0041	0.0092	0.0073	0.0075	0.0079	0.0080	0.0079	0.0080	0.0080	0.0078	0.0078	0.0079	0.0077	0.0080	0.0082	0.0077	0.0084	0.0072	0.0039	0.0088	0.0095	0.0080	0.0080	0.0080	0.0079	0.0096
	0.0078	0.0074	0.0072	0.0076	0.0077	0.0075	0.0080	0.0077	0.0079	0.0080	0.0077	0.0081	0.0079	0.0078	0.0079	0.0080	0.0077	0.0085	0.0083	0.0078	0.0081	0.0079	0.0078	0.0081	0.0080	0.0081	0.0088
	0.0059	0.0078	0.0076	0.0073	0.0076	0.0079	0.0079	0.0077	0.0079	0.0079	0.0078	0.0079	0.0081	0.0078	0.0081	0.0080	0.0077	0.0078	0.0079	0.0080	0.0077	0.0080	0.0082	0.0078	0.0080	0.0080	0.0098
	0.0058	0.0071	0.0076	0.0077	0.0073	0.0079	0.0079	0.0077	0.0080	0.0079	0.0077	0.0080	0.0079	0.0079	0.0079	0.0081	0.0078	0.0080	0.0080	0.0078	0.0080	0.0080	0.0078	0.0080	0.0080	0.0079	0.0089
25	0.0069	0.0073	0.0072	0.0078	0.0075	0.0078	0.0079	0.0076	0.0081	0.0080	0.0078	0.0080	0.0080	0.0079	0.0079	0.0080	0.0078	0.0080	0.0082	0.0077	0.0081	0.0081	0.0079	0.0080	0.0080	0.0080	0.0089
	0.0072	0.0069	0.0075	0.0076	0.0076	0.0084	0.0089	0.0082	0.0076	0.0081	0.0077	0.0082	0.0079	0.0078	0.0080	0.0080	0.0078	0.0081	0.0079	0.0079	0.0082	0.0081	0.0077	0.0081	0.0080	0.0079	0.0086
	0.0072	0.0073	0.0078	0.0077	0.0073	0.0090		0.0079	0.0079	0.0080	0.0077	0.0080	0.0080	0.0078	0.0080	0.0081	0.0078	0.0080	0.0080	0.0081	0.0079	0.0081	0.0080	0.0080	0.0081	0.0080	0.0094
	0.0083	0.0072	0.0075	0.0077	0.0074	0.0086	0.0085	0.0084	0.0079	0.0079	0.0078	0.0080	0.0080	0.0079	0.0081	0.0079	0.0077	0.0079	0.0081	0.0076	0.0081	0.0080	0.0077	0.0080	0.0081	0.0080	0.0094
20	0.0077	0.0073	0.0079	0.0076	0.0077	0.0078	0.0080	0.0077	0.0080	0.0080	0.0078	0.0079	0.0080	0.0077	0.0081	0.0080	0.0077	0.0080	0.0080	0.0078	0.0081	0.0081	0.0078	0.0082	0.0080	0.0080	0.0079
	0.0079	0.0072	0.0077	0.0075	0.0075	0.0079	0.0080	0.0076	0.0079	0.0080	0.0077	0.0080	0.0081	0.0077	0.0080	0.0080	0.0078	0.0080	0.0080	0.0079	0.0079	0.0079	0.0078	0.0081	0.0081	0.0078	0.0098
	0.0084	0.0071	0.0079	0.0075	0.0076	0.0079	0.0079	0.0077	0.0081	0.0080	0.0078	0.0081	0.0078	0.0078	0.0079	0.0081	0.0078	0.0079	0.0093	0.0074	0.0086	0.0079	0.0077	0.0081	0.0082	0.0080	0.0090

### 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.) |  $\mu = 0.89$ ,  $\sigma = (5.001 \pm 0.018)$  p**

**E/p (after calib.) |  $\mu = 1.01$ ,  $\sigma = (5.817 \pm 0.021)$  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**