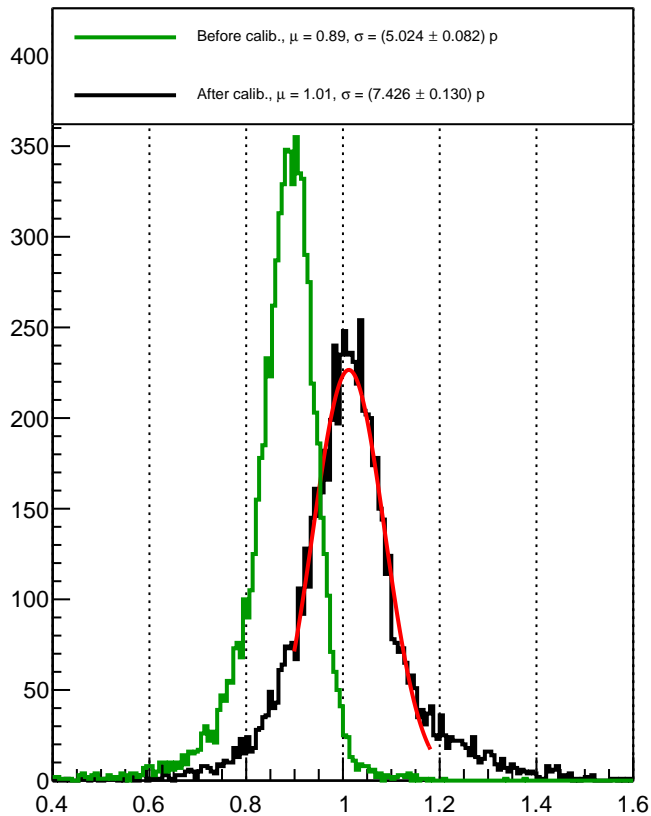
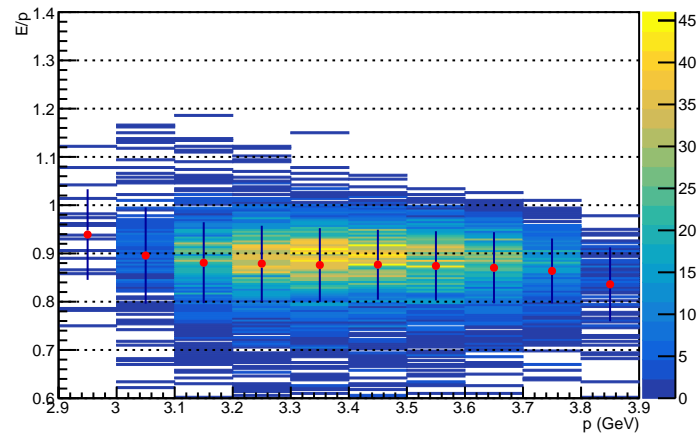


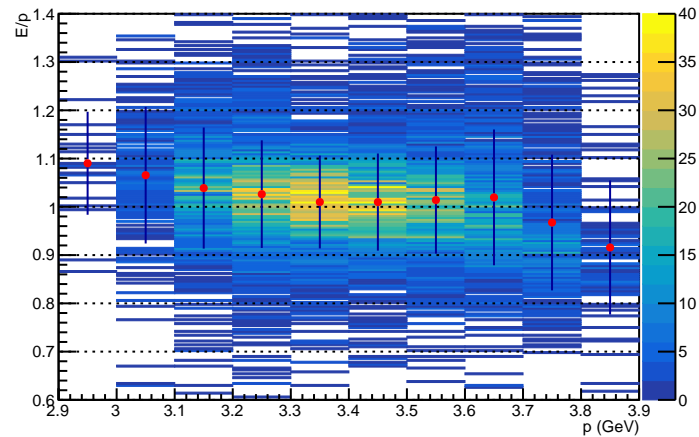
# E/p (After)



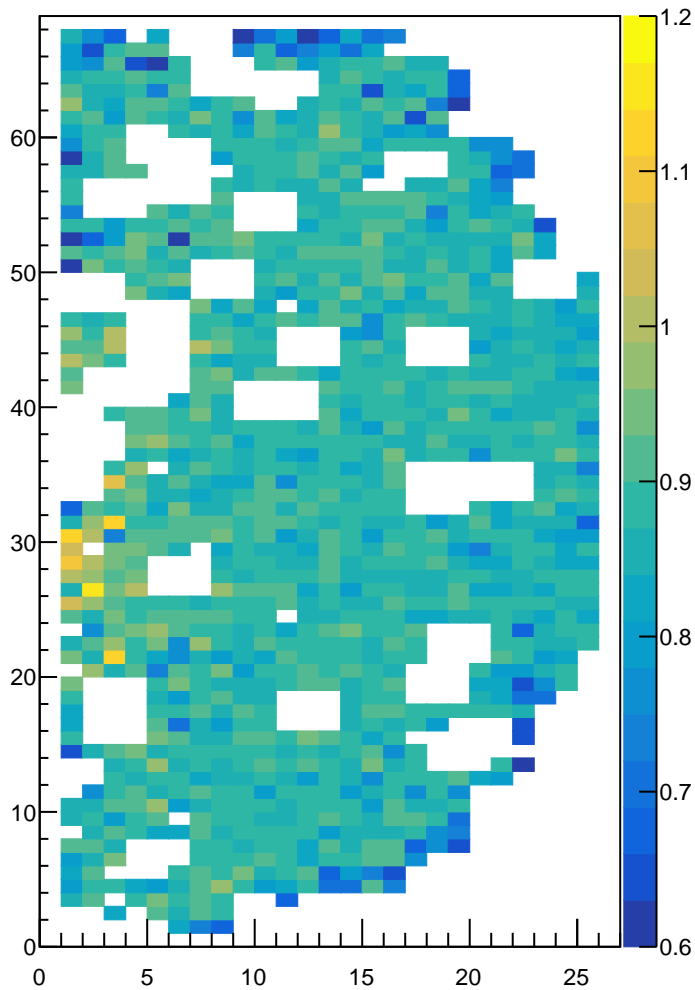
# E/p vs p | Before



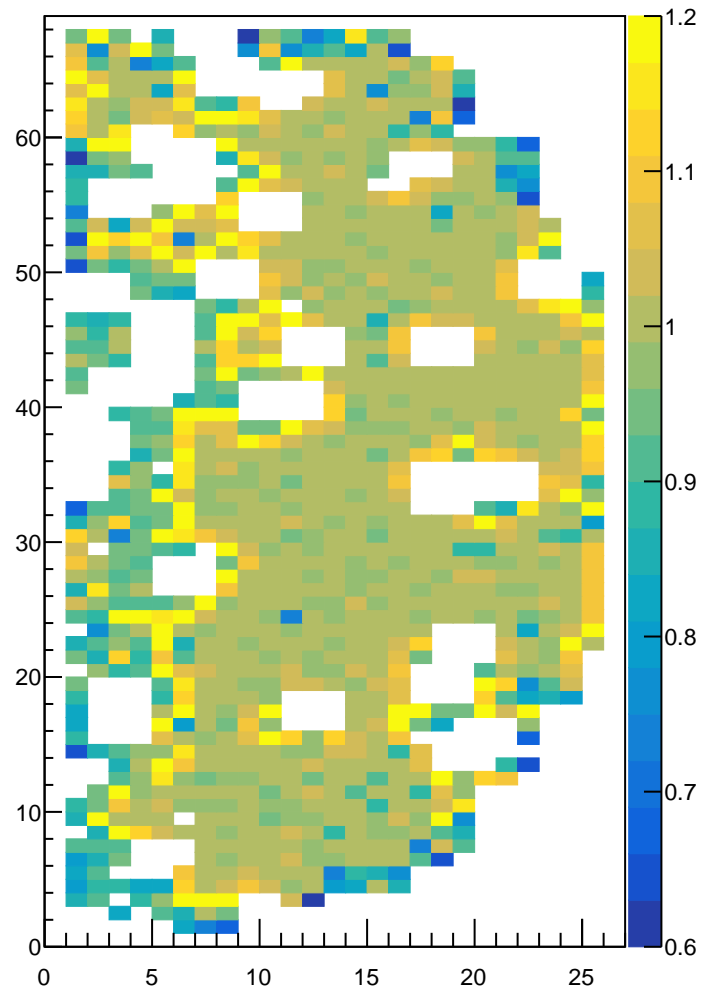
# E/p vs p | After



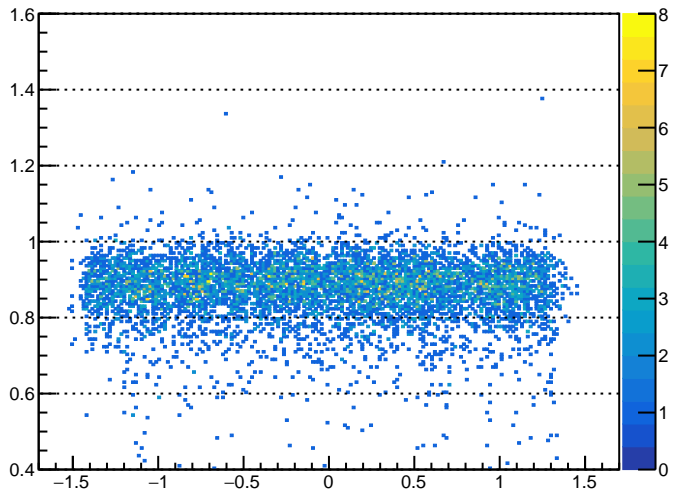
E/p per block | Before



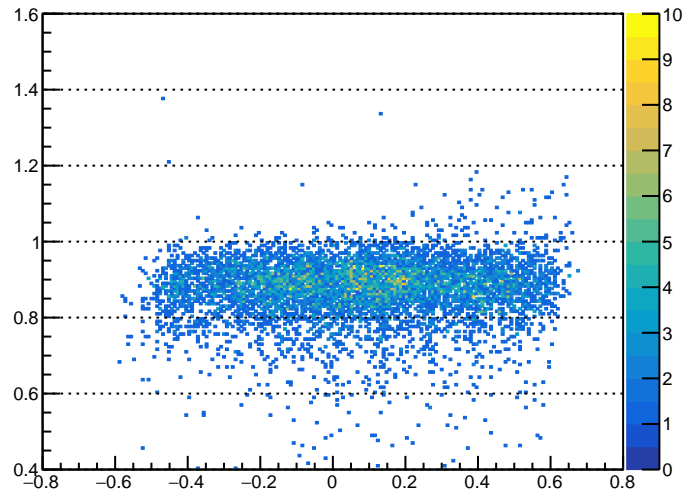
E/p per block | After



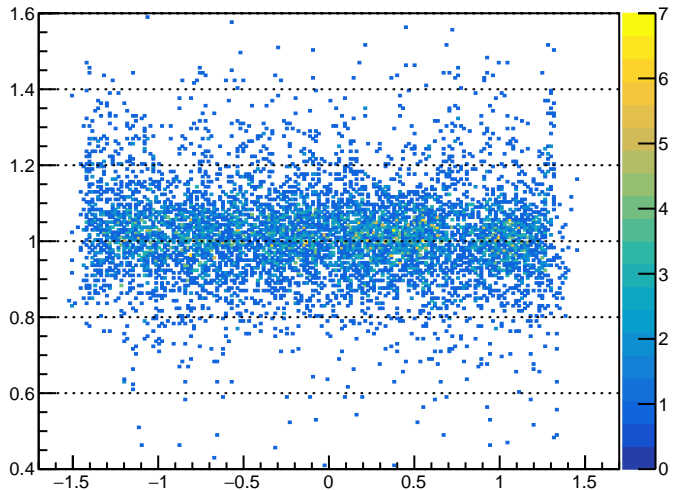
E/p vs xECAL Expected | Before



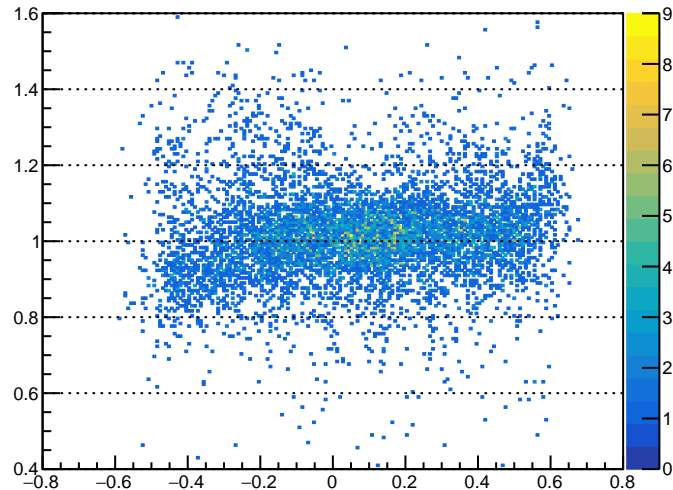
E/p vs yECAL Expected | Before



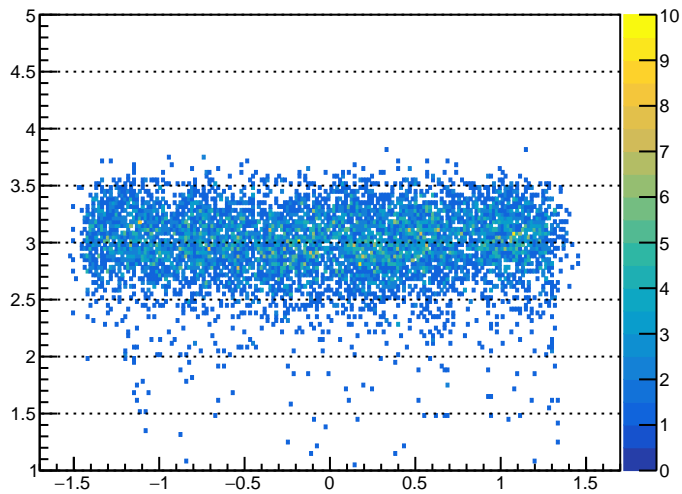
E/p vs xECAL Expected | After



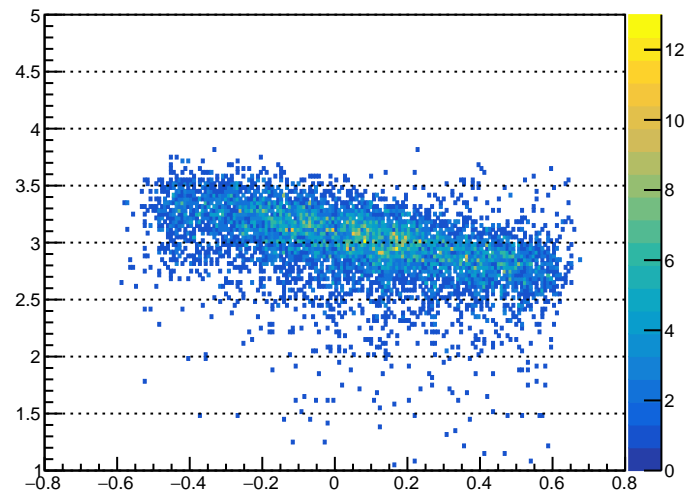
E/p vs yECAL Expected | After



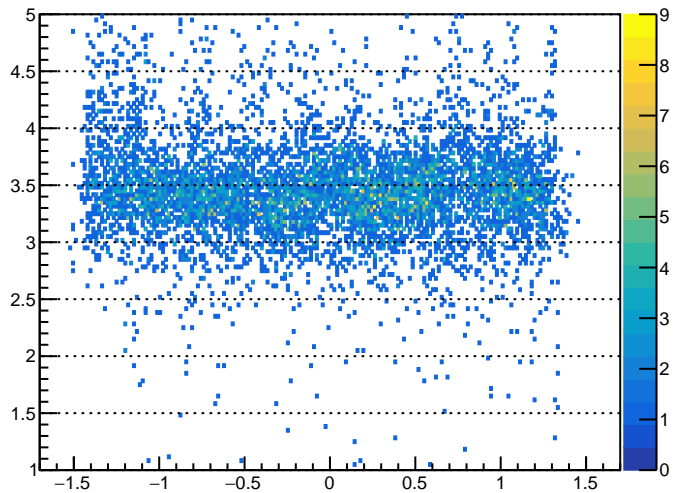
ECAL energy vs xECAL Expected | Before



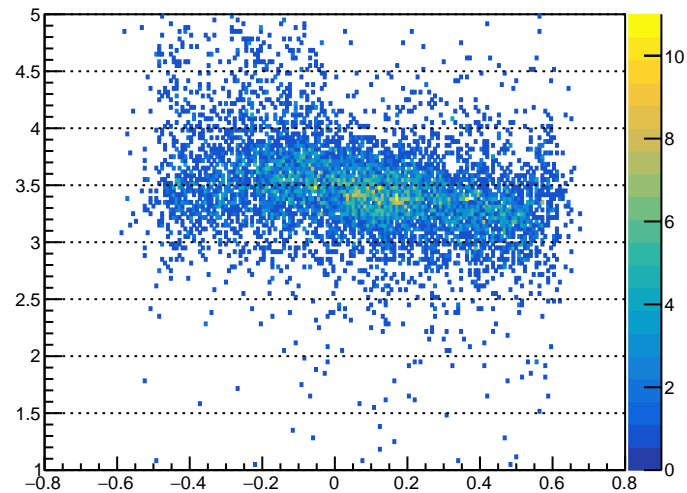
ECAL energy vs yECAL Expected | Before



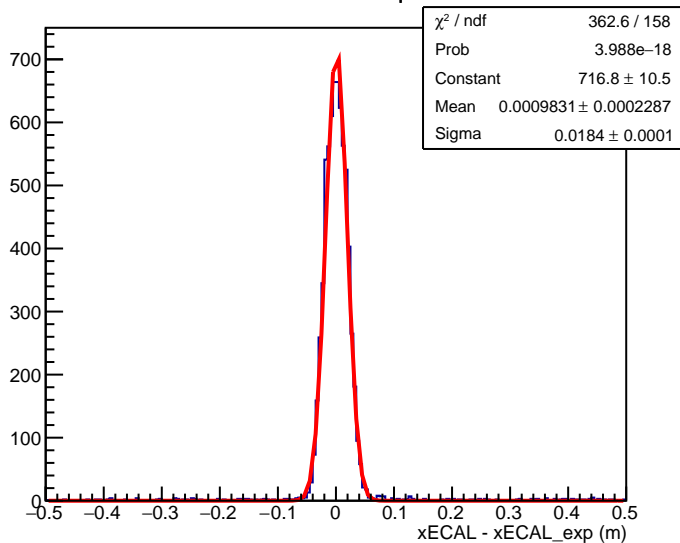
ECAL energy vs xECAL Expected | After



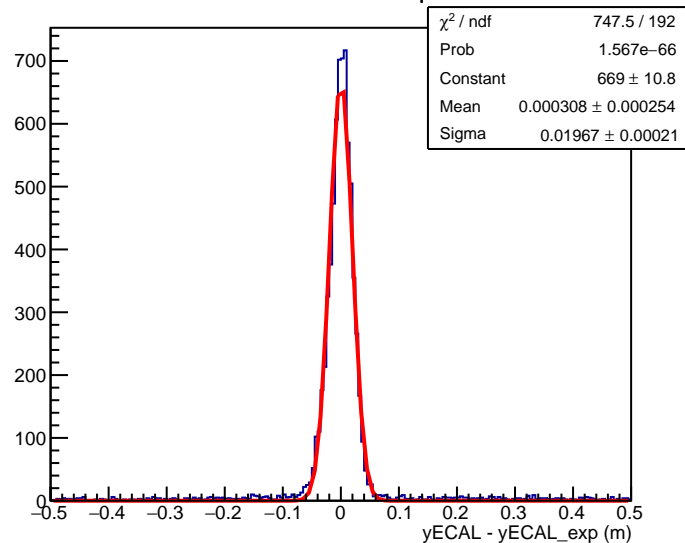
ECAL energy vs yECAL Expected | After



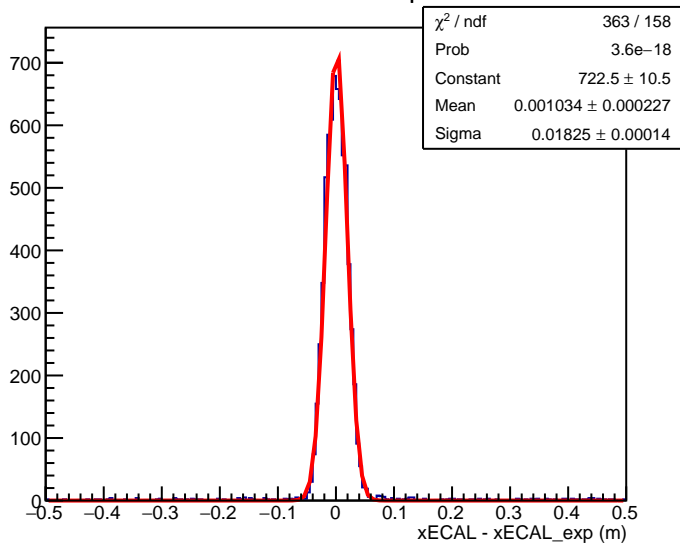
Vertical Pos. Diff. | Before



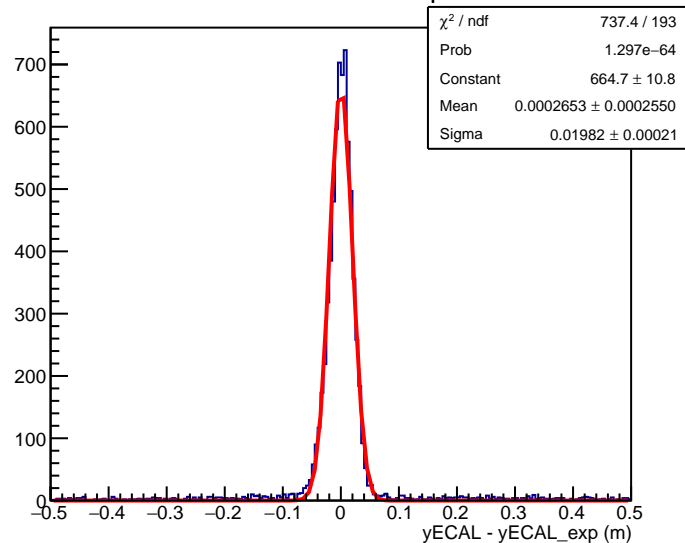
Horizontal Pos. Diff. | Before



Vertical Pos. Diff. | After



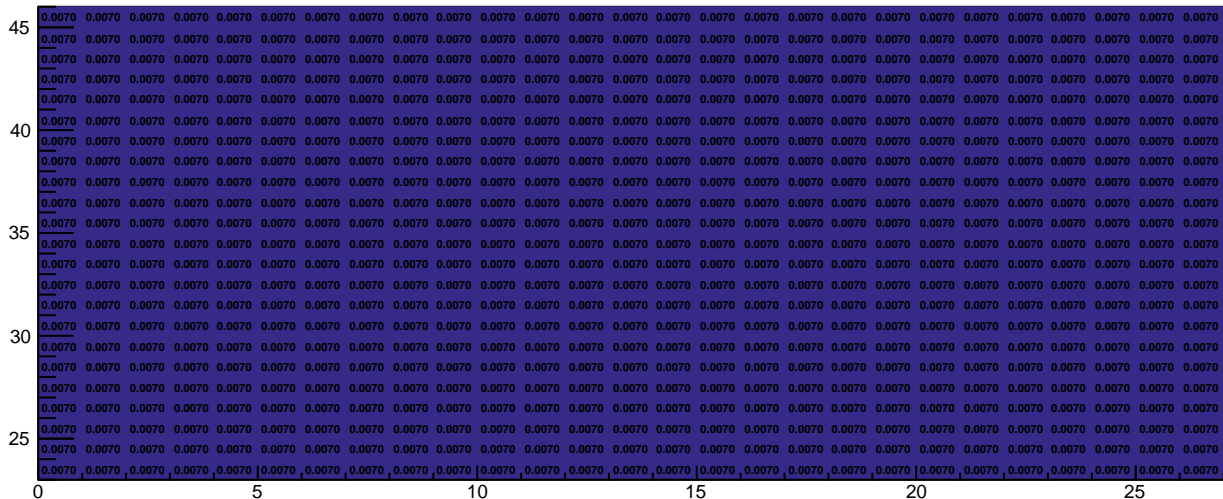
Horizontal Pos. Diff. | After



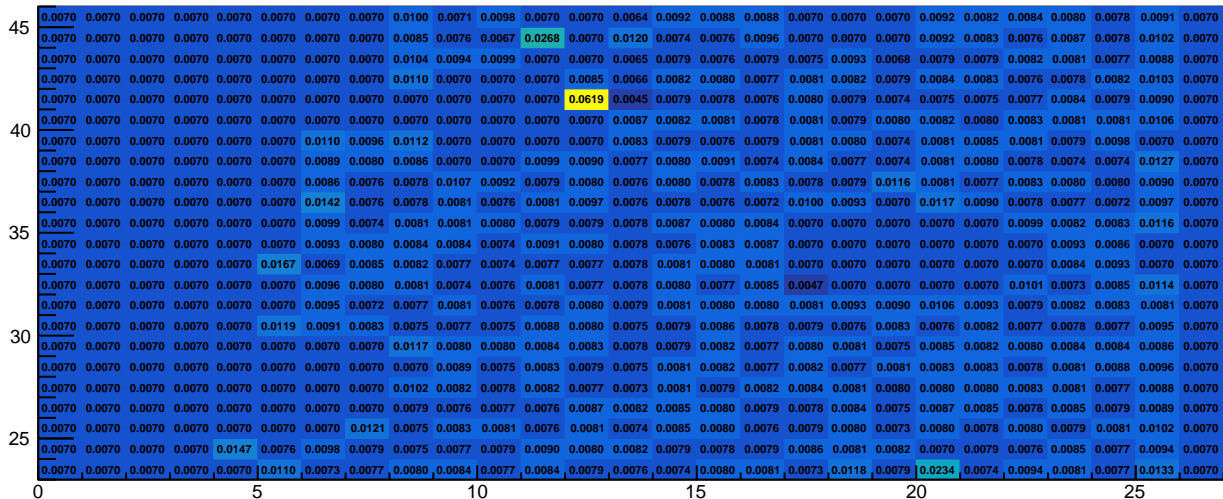
## New ADC Gain Coefficients (Top)

68	#0070	0.0070	0.0070	0.0070	0.0070	0.0070	0.0070	0.0070	0.0070	0.0070	0.0083	0.0105	0.0070	0.0070	0.0070	0.0070	0.0070
	#0070	0.0070	0.0128	0.0106	0.0070	0.0070	0.0070	0.0070	0.0070	0.0119	0.0080	0.0079	0.0090	0.0110	0.0096	0.0111	0.0070
66	#0070	0.0106	0.0083	0.0066	0.0109	0.0070	0.0070	0.0070	0.0070	0.0076	0.0074	0.0086	0.0077	0.0075	0.0079	0.0064	0.0188
	#0070	0.0106	0.0082	0.0072	0.0074	0.0110	0.0070	0.0070	0.0070	0.0070	0.0117	0.0091	0.0080	0.0080	0.0084	0.0078	0.0083
64	#0070	0.0126	0.0064	0.0080	0.0076	0.0073	0.0114	0.0070	0.0070	0.0070	0.0070	0.0070	0.0094	0.0075	0.0082	0.0077	0.0078
	#0070	0.0070	0.0126	0.0081	0.0078	0.0079	0.0079	0.0070	0.0070	0.0070	0.0070	0.0070	0.0086	0.0077	0.0086	0.0080	0.0085
62	#0070	0.0074	0.0080	0.0081	0.0079	0.0073	0.0104	0.0070	0.0070	0.0070	0.0166	0.0119	0.0077	0.0077	0.0082	0.0077	0.0079
	#0070	0.0097	0.0070	0.0081	0.0075	0.0091	0.0078	0.0097	0.0097	0.0123	0.0060	0.0076	0.0088	0.0075	0.0077	0.0083	0.0078
60	#0070	0.0093	0.0073	0.0099	0.0085	0.0070	0.0094	0.0073	0.0077	0.0076	0.0080	0.0083	0.0081	0.0069	0.0081	0.0084	0.0073
	#0070	0.0070	0.0134	0.0107	0.0070	0.0070	0.0070	0.0070	0.0108	0.0073	0.0079	0.0084	0.0079	0.0075	0.0078	0.0083	0.0078
58	#0070	0.0070	0.0070	0.0070	0.0070	0.0070	0.0070	0.0070	0.0103	0.0082	0.0076	0.0077	0.0076	0.0089	0.0075	0.0076	0.0070
	#0070	0.0070	0.0070	0.0070	0.0070	0.0070	0.0070	0.0070	0.0070	0.0070	0.0089	0.0072	0.0074	0.0087	0.0074	0.0087	0.0082
56	#0070	0.0070	0.0070	0.0070	0.0070	0.0070	0.0070	0.0070	0.0110	0.0086	0.0085	0.0083	0.0076	0.0081	0.0128	0.0070	0.0093
	#0070	0.0070	0.0070	0.0070	0.0070	0.0070	0.0070	0.0070	0.0070	0.0070	0.0094	0.0076	0.0082	0.0074	0.0074	0.0084	0.0084
54	#0070	0.0070	0.0070	0.0070	0.0070	0.0070	0.0109	0.0047	0.0106	0.0070	0.0070	0.0119	0.0072	0.0084	0.0076	0.0080	0.0077
	#0070	0.0070	0.0070	0.0070	0.0105	0.0075	0.0081	0.0079	0.0070	0.0070	0.0196	0.0075	0.0077	0.0078	0.0076	0.0075	0.0080
52	#0070	0.0070	0.0230	0.0070	0.0149	0.0069	0.0079	0.0082	0.0094	0.0084	0.0086	0.0070	0.0076	0.0078	0.0083	0.0076	0.0081
	#0070	0.0070	0.0070	0.0070	0.0148	0.0064	0.0128	0.0070	0.0097	0.0078	0.0083	0.0083	0.0078	0.0076	0.0075	0.0073	0.0079
50	#0070	0.0070	0.0070	0.0070	0.0070	0.0115	0.0070	0.0070	0.0070	0.0088	0.0081	0.0077	0.0078	0.0079	0.0074	0.0083	0.0080
	#0070	0.0070	0.0070	0.0070	0.0070	0.0070	0.0070	0.0070	0.0070	0.0090	0.0074	0.0083	0.0078	0.0082	0.0082	0.0073	0.0077
48	#0070	0.0070	0.0070	0.0070	0.0070	0.0070	0.0070	0.0070	0.0070	0.0070	0.0070	0.0097	0.0080	0.0078	0.0073	0.0080	0.0076
	#0070	0.0070	0.0070	0.0070	0.0070	0.0070	0.0070	0.0070	0.0070	0.0070	0.0137	0.0079	0.0087	0.0076	0.0083	0.0080	0.0080
46	#0070	0.0070	0.0070	0.0070	0.0070	0.0070	0.0070	0.0070	0.0070	0.0110	0.0133	0.0070	0.0100	0.0086	0.0076	0.0074	0.0078
	#0070	0.0070	0.0070	0.0070	0.0070	0.0070	0.0070	0.0070	0.0070	0.0110	0.0133	0.0070	0.0100	0.0086	0.0076	0.0074	0.0078

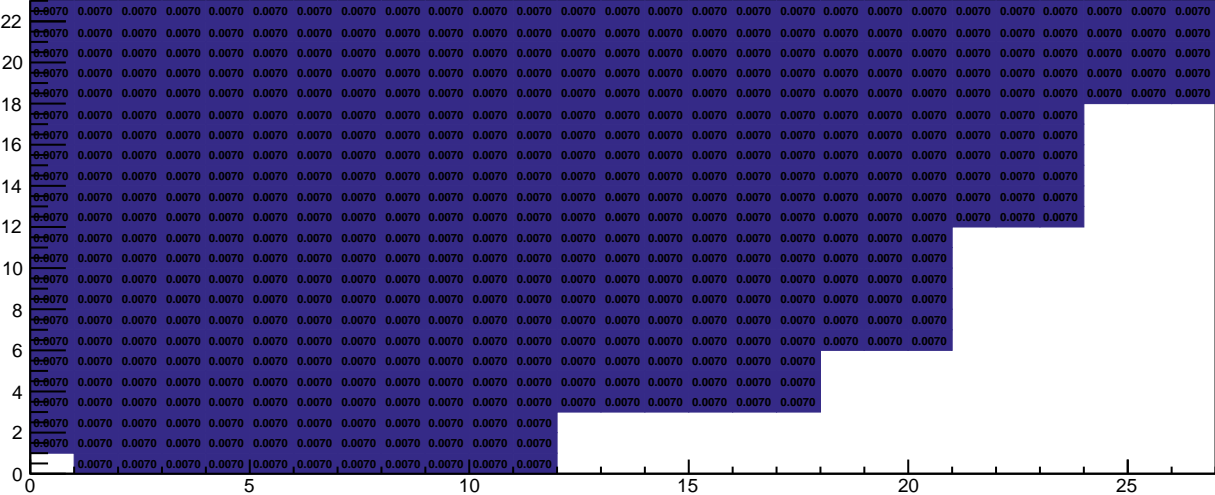
### Old ADC Gain Coefficients (Middle)



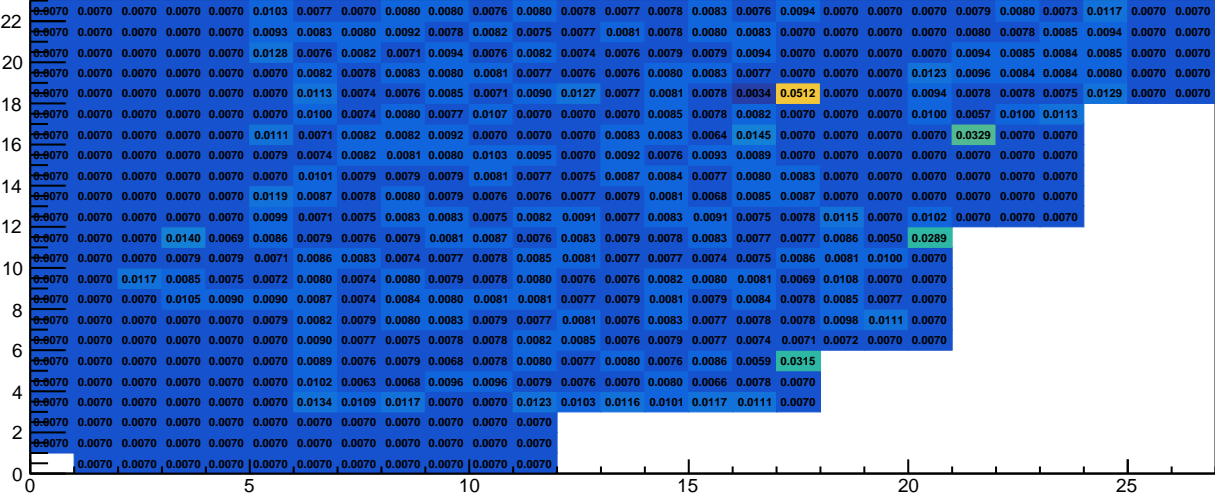
### New ADC Gain Coefficients (Middle)



Old ADC Gain Coefficients (Bottom)

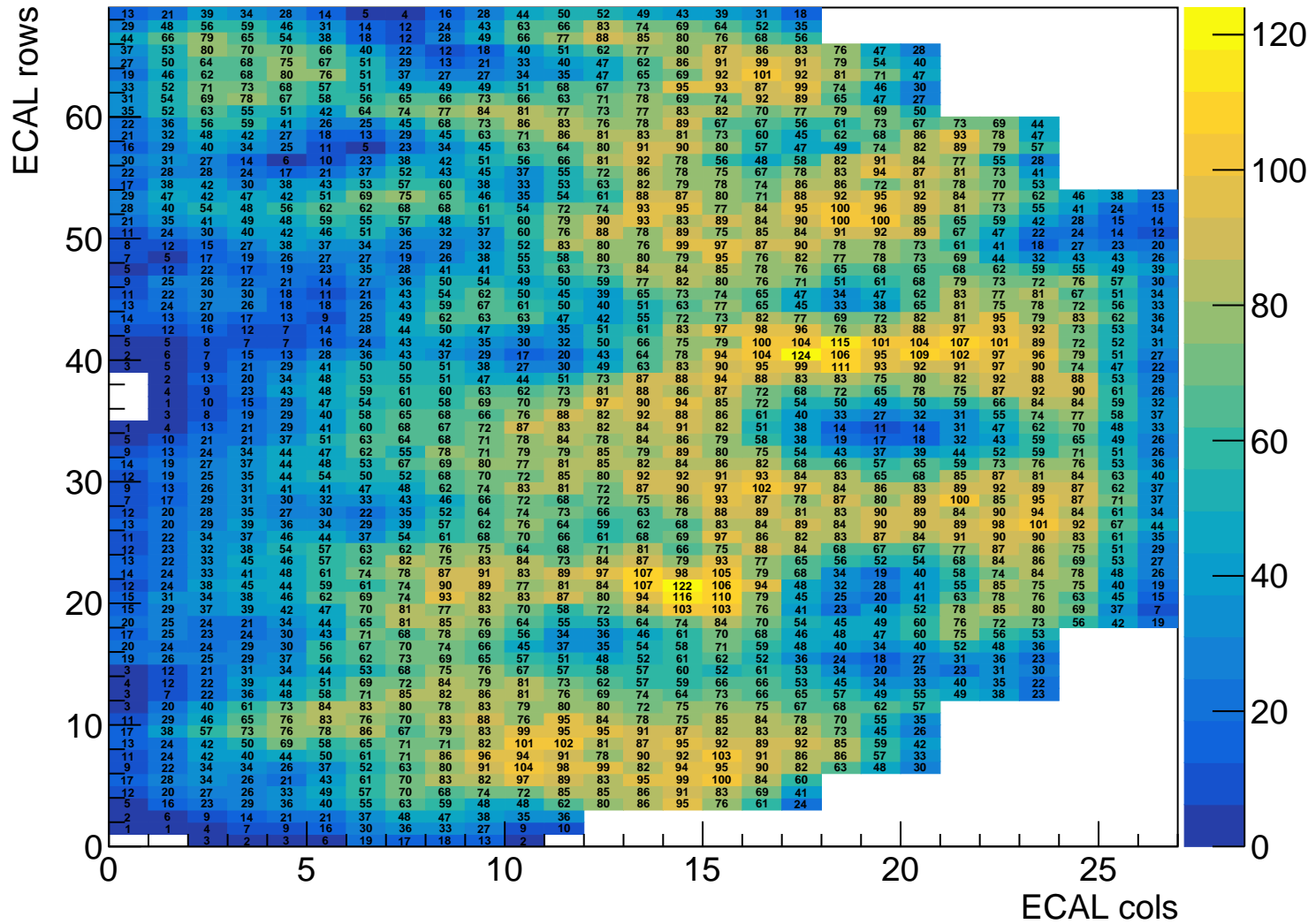


New ADC Gain Coefficients (Bottom)





# 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: 28552**

**E/p (before calib.) |  $\mu = 0.89$ ,  $\sigma = (5.024 \pm 0.082)$  p**

**E/p (after calib.) |  $\mu = 1.01$ ,  $\sigma = (7.426 \pm 0.130)$  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 77.4s | Real 79.4s**