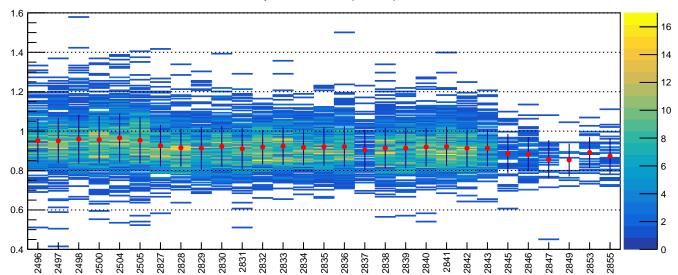
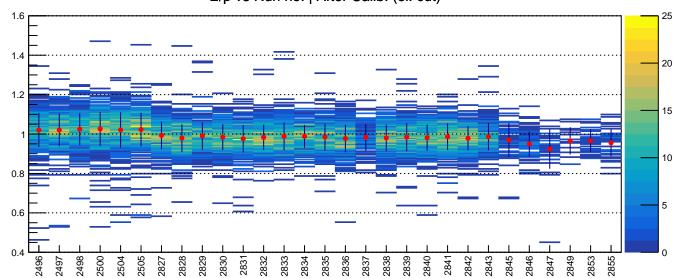


E/p vs Run no. (el. cut)



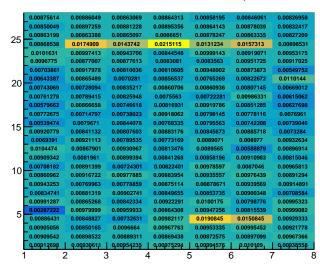
E/p vs Run no. | After Calib. (el. cut)



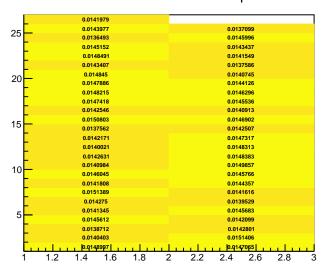
Old ADC Gain Coefficients | SH

	0.00875614	0.00886049	0.00863069	0.00864313	0.00858195	0.00846061	0.00826958
25	0.00850049	0.00897259	0.00881228	0.00895356	0.00864143	0.00878039	0.00832417
	0.00863199	0.00863388	0.00865097	0.0086651	0.00878247	0.00863335	0.00827209
	0.00868538	0.00951413	0.00862377	0.00872976	0.00866936	0.00870784	0.00898531
	0.00903764	0.00918671	0.00937673	0.00922151	0.00917703	0.0088467	0.00953175
	0.00887061	0.00911614	0.0092823	0.00908545	0.00904935	0.00922978	0.00917025
20	0.00867057	0.00916657	0.00955832	0.00911832	0.00996696	0.00886228	0.00936071
	0.00899195	0.00917088	0.0095803	0.0092309	0.00940383	0.00913226	0.00913235
	0.008827	0.00973556	0.00905704	0.00962269	0.0094772	0.00980405	0.00947033
	0.00900637	0.00935916	0.00958107	0.00888643	0.00974873	0.00932315	0.0102008
	0.00915404	0.00938558	0.010108	0.00924304	0.00915554	0.00965411	0.00919518
15	0.00913695	0.00923888	0.00910491	0.00971819	0.0092111	0.0093729	0.00904693
	0.00896203	0.00924387	0.00908086	0.00930529	0.00946864	0.00957236	0.00989582
	0.00901924	0.0090146	0.009382	0.00926332	0.00925079	0.00987626	0.00934657
	0.00931521	0.00955571	0.00939628	0.00940581	0.00916546	0.00889282	0.00940678
	0.00869477	0.00961863	0.0092353	0.00960082	0.00987868	0.0097026	0.00982375
10	0.00931545	0.0094969	0.00958407	0.0091763	0.00920926	0.00942638	0.00952996
	0.00949056	0.00905811	0.00930316	0.00912795	0.00892056	0.00886911	0.00928046
	0.00897355	0.00947382	0.00890303	0.0093305	0.0095922	0.0087361	0.00978179
	0.00880967	0.0100086	0.00967158	0.00913903	0.00976606	0.0097903	0.00945325
	0.00961626	0.00926928	0.00942517	0.00912103	0.00961543	0.00957275	0.0103133
	0.00893662	0.00907727	0.00878203	0.00920568	0.00964641	0.00885952	0.00955987
5	0.00905864	0.00917441	0.00866137	0.00922804	0.00911357	0.0087301	0.00951955
Э	0.00886431	0.00989824	0.00845345	0.00958504	0.00868136	0.00839319	0.00929333
	0.00905056	0.00850165	0.0096664	0.00967763	0.00953335	0.00995452	0.00921778
	0.00909542	0.00898522	0.00889311	0.00869438	0.00872575	0.00897099	0.00967366
	0.00912698	q.0q93q61 ₁ 1	0,00954235	0.00975294	0.00994576	ρ.010109	0.00938558
7	1 2	2 3	3 4	4	5	6	7

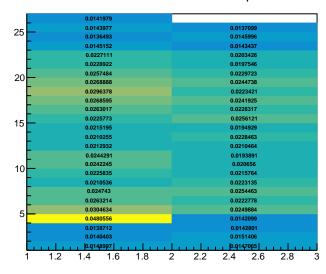
New ADC Gain Coefficients | SH

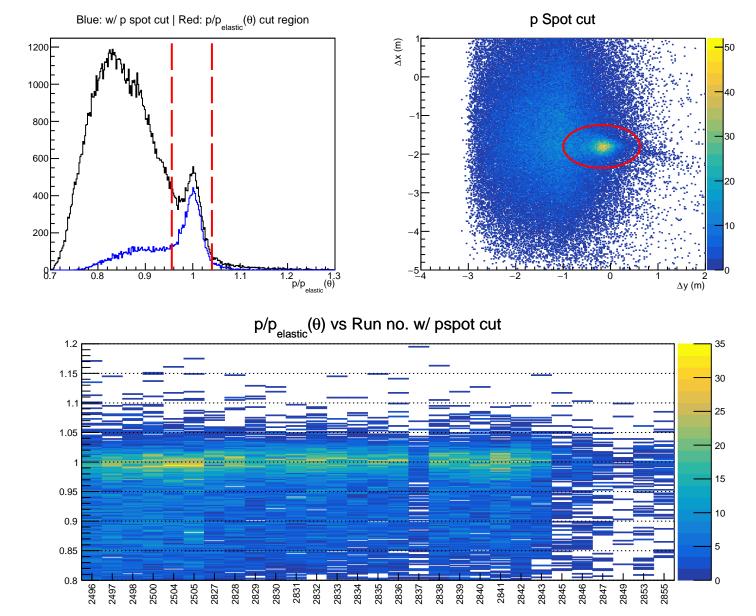


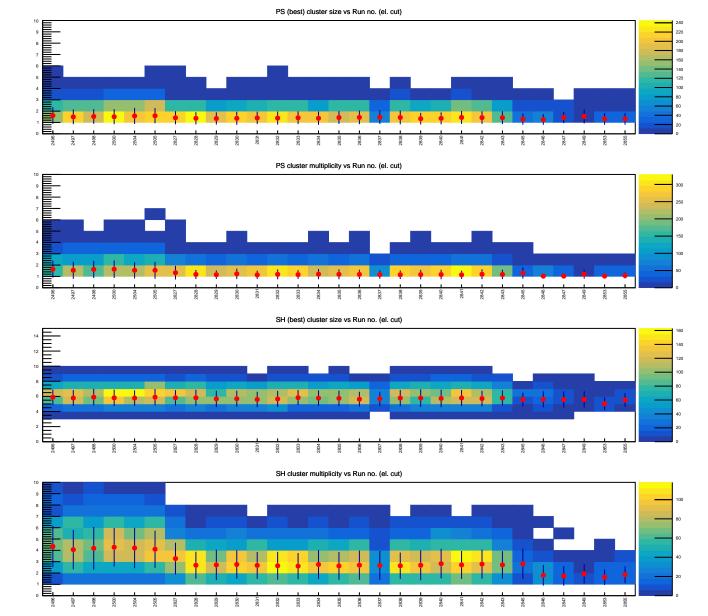
Old ADC Gain Coefficients | PS



New ADC Gain Coefficients | PS







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Date of creation: 9/7/2023
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Configfile: BBCal_replay/macros/Combined_macros/cfg/GEN3.cfg

Total # events analyzed: 18174726, Preparing for replay pass: 0

E/p (before calib.) |
$$\mu$$
 = 0.92, σ = (9.088 \pm 0.145) p
E/p (after calib.) | μ = 0.99, σ = (6.492 \pm 0.107) p

Global cuts:

bb.tr.n==1, abs(bb.tr.vz[0])<0.27, bb.gem.track.nhits>3,

PS cluster energy > 0.2 GeV

p_recon > 2.2 GeV/c # events passed global cuts: 109649

Elastic cuts:

 $|p/p_{\cdot}(\theta) - 0.998| \le 2.0*0.021$

proton spot cut ranges:

 Δx (m): Mean = -1.8025, 3.0 σ = 0.1852

 Δ y (m): Mean = -0.1870, 3.0 σ = 0.2705

events passed global & elastic cuts: 10019

Other cuts:

Minimum # events per block: 20, (Cluster) hit threshold: 0.02 GeV

Various offsets: Momentum fudge factor: 1.00, BBCAL cluster energy scale factor: 1.00

Mom. calib. params: A = 0.277651030, B = 0.932092801, C = 0.0, Avy = 0.017583, Bvy = -33.807332, θ_{pitch}^{GEM} = 10.0°, d = 1.6300 m

Macro processing time: CPU 693.8s | Real 1244.7s