

-0.1

0.1

0.2

0.4

sh.y - tr.y (m)

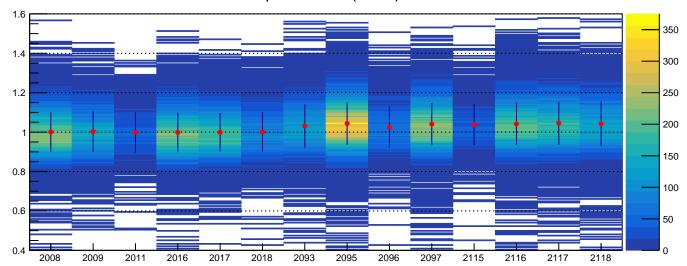
-0.1

0.2

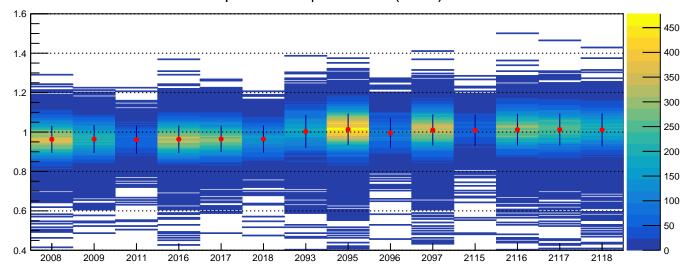
0.4

sh.x - tr.x (m)

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



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



Old ADC Gain Coefficients | SH

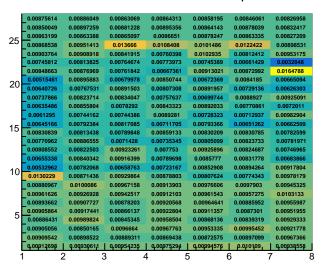
	0.00875614	0.00886049	0.00863069	0.00864313	0.00858195	0.00846061	0.00826958
25	0.00850049	0.00897259	0.00881228	0.00895356	0.00864143	0.00878039	0.00832417
	0.00863199	0.00863388	0.00865097	0.0086651	0.00878247	0.00863335	0.00827209
	0.00868538	0.00951413	0.00862377	0.00872976	0.00866936	0.00870784	0.00898531
	0.00903764	0.00918671	0.00937673	0.00922151	0.00917703	0.0088467	0.00953175
20	0.00887061	0.00911614	0.0092823	0.00908545	0.00904935	0.00922978	0.00917025
	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
15	0.00915404	0.00938558	0.010108	0.00924304	0.00915554	0.00965411	0.00919518
	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
5	0.00893662	0.00907727	0.00878203	0.00920568	0.00964641	0.00885952	0.00955987
	0.00905864	0.00917441	0.00866137	0.00922804	0.00911357	0.0087301	0.00951955
	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	0.00930611	0,00954235	0.00975294	0.00994576	0.010109	0.00938558
		2 :	3 4	1	5	6	7

3 4 5 6

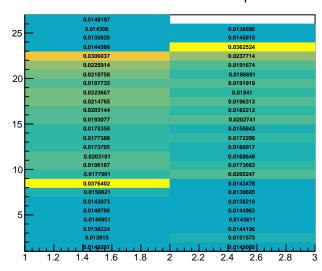
Old ADC Gain Coefficients | PS

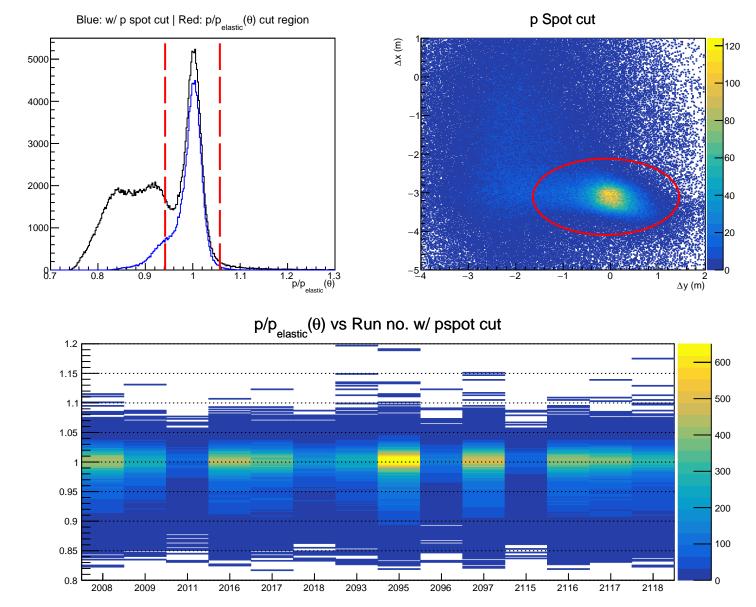
0.0140197 0.014306 0.0136686 25 0.0135826 0.0145815 0.0144588 0.0144477 0.0146744 0.0140694 0.0141222 0.0136844 0.0150411 0.0139482 20 0.0149129 0.014438 0.0147415 0.0146977 0.0144374 0.0143643 0.0142688 0.0140421 0.0148702 0.0148694 15 0.0135486 0.0140674 0.0140875 0.01488 0.0139759 0.0148356 0.0137232 0.0146953 0.0141237 0.01493 10 0.0145396 0.0144289 0.0139148 0.0143478 0.0150621 0.0139665 0.0143073 0.0138216 0.0140706 0.0144963 5 0.0146951 0.0143611 0.0136224 0.0144196 0.013915 0.0151573 1.2 1.8 2 2.2 2.4 2.6 2.8 1.4 1.6

New ADC Gain Coefficients | SH

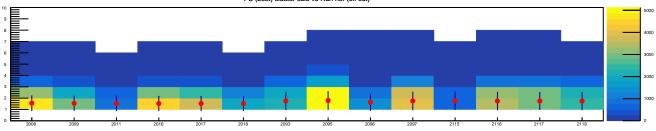


New ADC Gain Coefficients | PS

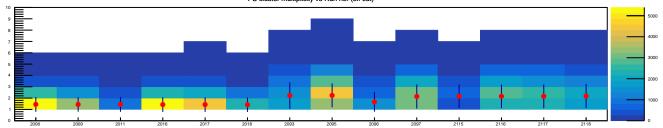




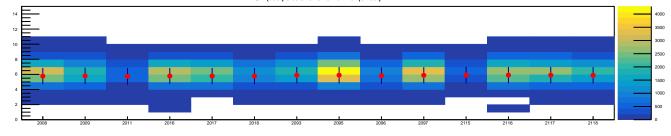




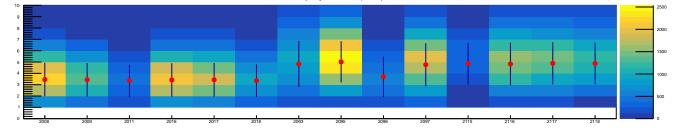
PS cluster multiplicity vs Run no. (el. cut)



SH (best) cluster size vs Run no. (el. cut)







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Date of creation: 8/31/2023
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Configfile: BBCal_replay/macros/Combined_macros/cfg/GEN2_SBS_p100.cfg

Total # events analyzed: 11687312, Preparing for replay pass: 0 E/p (before calib.) | μ = 1.01, σ = (8.975 \pm 0.043) p

E/p (after calib.) | $\mu = 0.99$, $\sigma = (6.868 \pm 0.034)$ 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: 274456

Elastic cuts:

 $|p/p_{el}(\theta) - 0.999| \le 3.0*0.019$

proton spot cut ranges:

 Δx (m): Mean = -3.1053, 3.0 σ = 0.3290

 Δ y (m): Mean = -0.0958, 3.0 σ = 0.5145

events passed global & elastic cuts: 101357

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 = 0.263077985, B = 0.999237626, C = 0.0, Avy = -0.014763, Bvy = -15.893095, θ_{pitch}^{GEM} = 10.0°, d = 1.6300 m

Macro processing time: CPU 588.8s | Real 892.7s