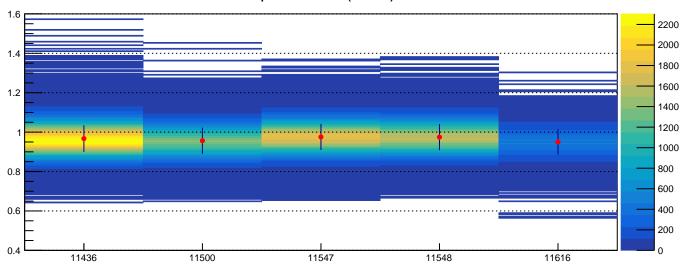


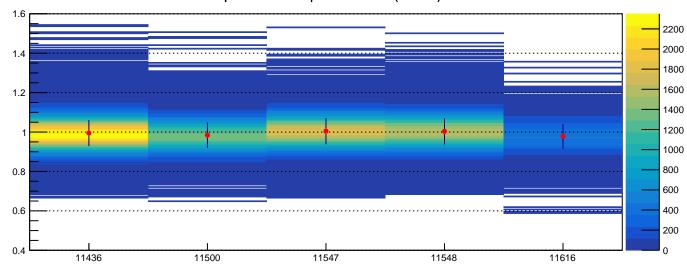
sh.y - tr.y (m)

sh.x - tr.x (m)

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



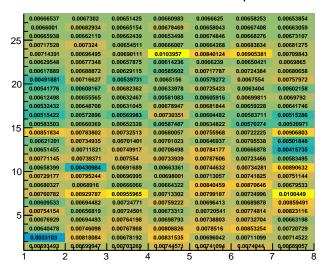
E/p vs Run no. | After Calib. (el. cut)



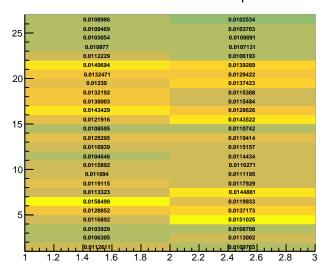
Old ADC Gain Coefficients | SH

	0.00000507	0.0007000	0.00054405	0.0000000	0.000005	0.00050050	0.00050054
- 1	0.00666537	0.0067302	0.00651425	0.00660983	0.0066625	0.00658253	0.00653854
25	_ 0.0066001	0.00682934	0.00665154	0.00678469	0.00658043	0.00667408	0.00663059
	0.00665938	0.00662119	0.00662439	0.00653498	0.00674846	0.00668276	0.00673107
	_0.00717528	0.007324	0.00654511	0.00666007	0.00664268	0.00683634	0.00681275
	0.00714391	0.00696495	0.00690111	0.00597937	0.00699372	0.00695798	0.00709843
	0.00629548	0.00626316	0.005923	0.00554688	0.00584404	0.00641501	0.00588168
	0.00603496	0.00655217	0.00631349	0.00578756	0.00700746	0.00703931	0.00693596
20	0.00524176	0.00710063	0.00566434	0.00648357	0.00587061	0.00666416	0.00747952
	0.00589256	0.00621992	0.00672478	0.00638297	0.00721462	0.006405	0.0059449
	0.00630718	0.00658679	0.00627752	0.00578803	0.00624352	0.00706831	0.00700753
	0.0053697	0.00639261	0.00638012	0.00663607	0.00670269	0.00655977	0.00643922
	0.0054476	0.00580315	0.0059169	0.00715761	0.0059974	0.00589619	0.00493067
15	0.0060687	0.00650886	0.00648543	0.00593831	0.00637614	0.00589305	0.00543972
	0.00822763	0.00759682	0.00716104	0.00655634	0.00739343	0.0071176	0.00842275
	0.00631978	0.00716754	0.00691039	0.00690004	0.00639339	0.00678702	0.00515896
	0.00662427	0.00700625	0.00732133	0.00700446	0.00759464	0.00652885	0.00443411
	0.00768412	0.00725188	0.00751766	0.00721079	0.00764173	0.00708798	0.00581562
10	0.00638815	0.00487581	0.00688366	0.00660719	0.00717656	0.00720885	0.00861694
	0.00722666	0.00761178	0.00687498	0.00673428	0.00688479	0.00702314	0.00708551
	0.00672266	0.00689102	0.00658934	0.00647706	0.00840375	0.00865292	0.00707967
	0.00790497	0.00926122	0.00953746	0.00688268	0.00789565	0.00688189	0.0101449
5	0.0060771	0.00686525	0.00723254	0.00755544	0.00692521	0.00690188	0.00796325
	0.00751342	0.00671079	0.00733078	0.00682918	0.0073085	0.0078373	0.00958505
	0.00817842	0.00694066	0.00780331	0.00719459	0.00763148	0.00818548	0.00693268
- 1	0.00708558	0.00778368	0.00742078	0.00900141	0.00732461	0.00761251	0.00720729
- 1	0.00719419	0.00720493	0.00696023	0.00695777	0.00696042	0.00711099	0.00714522
- 1	0.00693493	0.00699947	0.00703269	q.0q74457 ₁ 1	0.00741094	0.0074044	0.00689057
1		2 3				6	7

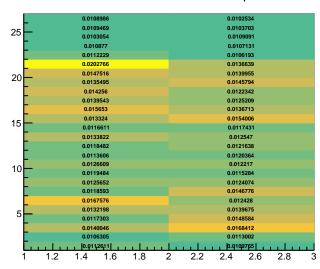
New ADC Gain Coefficients | SH

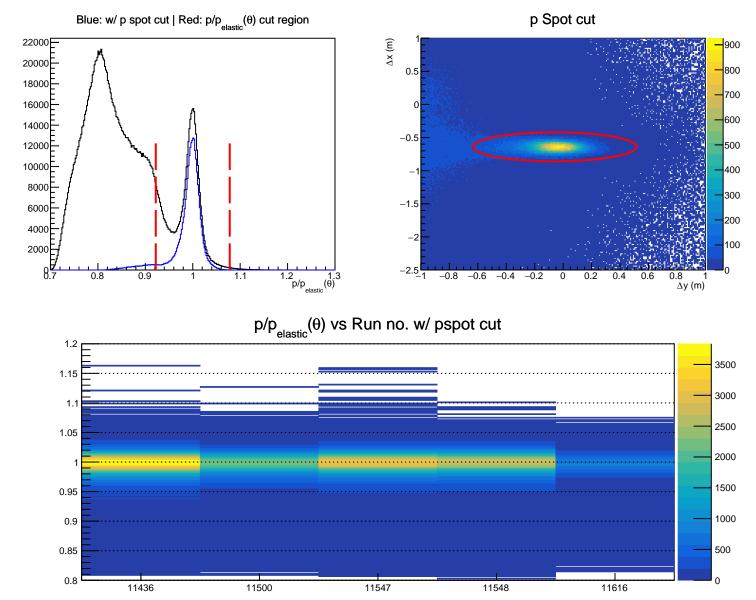


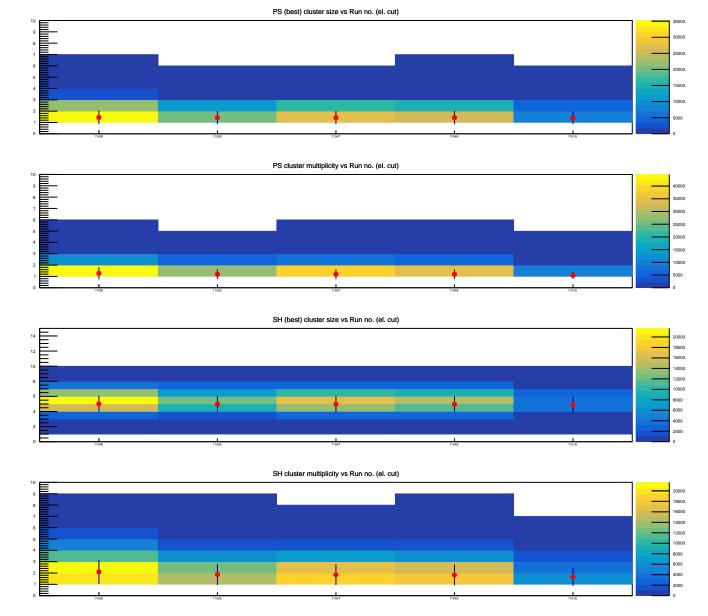
Old ADC Gain Coefficients | PS



New ADC Gain Coefficients | PS







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Date of creation: 6/21/2023
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Configfile: BBCal_replay/macros/Combined_macros/cfg/sbs4-sbs30p.cfg

Total # events analyzed: 5862752, Preparing for replay pass: 2 E/p (before calib.) | μ = 0.97, σ = (6.151 \pm 0.000) p

E/p (after calib.) $\mu = 0.99$, $\sigma = (6.084 \pm 0.000)$ p

Global cuts:

bb.tr.n==1, abs(bb.tr.vz[0])<0.08, bb.gem.track.nhits>3,

abs(bb.tr.r_x-0.9*bb.tr.r_th)<0.4, PS cluster energy > 0.2 GeV

p_recon > 1.6 GeV/c

events passed global cuts: 1751296

Elastic cuts:

 $|p/p_{el}(\theta) - 1.000| \le 6.0*0.013$

proton spot cut ranges:

 Δx (m): Mean = -0.6390, 3.0 σ = 0.0730 Δy (m): Mean = -0.0590, 4.0 σ = 0.1440

events passed global & elastic cuts: 238162
Other cuts:

Minimum # events per block: 500, (Cluster) hit threshold: 0.02 GeV

block. 500, (Cluster)

Various offsets:

Momentum fudge factor: 1.00, BBCAL cluster energy scale factor: 1.00 Momentum calibration factors: A = 0.272702433, B = 1.012984580, C = 0.0, $\theta_{\text{pitch}}^{\text{GEM}}$ = 10.0°, d_{BB} = 1.7988 m

Macro processing time: CPU 410.2s | Real 437.7s