

0.1

0.2

0.4

sh.y - tr.y (m)

-0.1

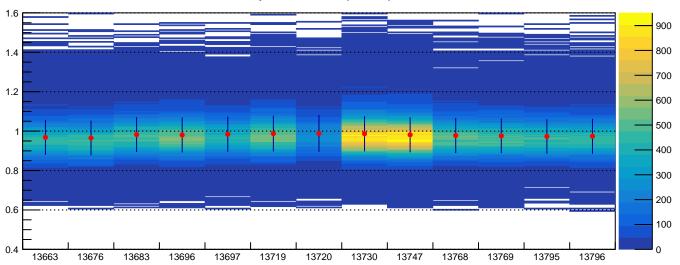
0

0.2

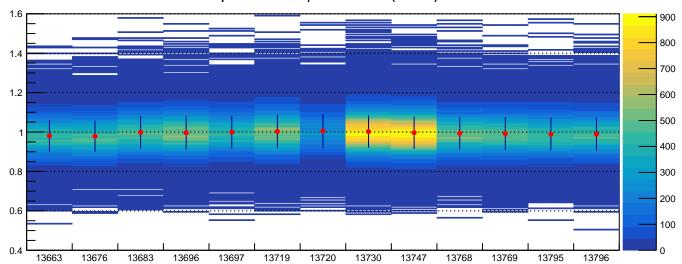
0.4

sh.x - tr.x (m)

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



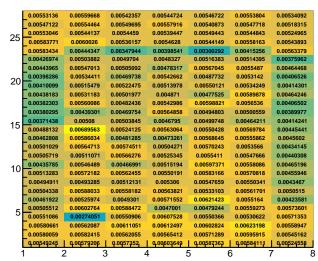
E/p vs Run no. | After Calib. (el. cut)



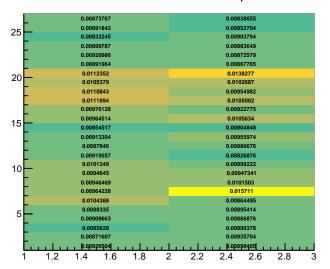
Old ADC Gain Coefficients | SH

- 1	0.00553136	0.00559668	0.00542357	0.00544724	0.00546722	0.00553804	0.00534092
H	0.00553136	0.00554464	0.00542357	0.00544724	0.00540873	0.00553604	0.00534092
25							
	0.00553046	0.00544137	0.0054459	0.00539447	0.00549443	0.00544843	0.00524965
	_ 0.00583771	0.0060026	0.00536157	0.0054628	0.00544149	0.00558163	0.00543893
	_0.00583434	0.00572721	0.0058556	0.00583509	0.00588179	0.00571589	0.00563379
20	_0.00562087	0.00575573	0.00510246	0.00538069	0.00571257	0.00591655	0.00532957
	_0.00550427	0.00560337	0.0046208	0.00416844	0.00502231	0.00550278	0.00556932
	0.00470628	0.00496888	0.00448674	0.00502532	0.00464229	0.00535482	0.00531484
	_0.00410014	0.0049453	0.00497202	0.00488845	0.00523652	0.00510538	0.00475695
	0.00455454	0.00499846	0.00483556	0.00453788	0.00461463	0.005523	0.00479335
	_0.00417338	0.00535488	0.00467728	0.00522745	0.00566565	0.00537608	0.00473638
15	0.00436344	0.00423024	0.00461843	0.00521989	0.00473357	0.00478538	0.00395826
	<u>0</u> .00415109	0.00484105	0.00492082	0.0046061	0.00493499	0.00456777	0.00453978
	0.00488058	0.0064316	0.00508989	0.00530034	0.00525295	0.00541731	0.00471101
	0.0047343	0.0054948	0.00482324	0.00471275	0.0054348	0.00529002	0.00489381
	0.00509548	0.00532477	0.00552052	0.00490283	0.00548767	0.00509916	0.00462529
10	0.00508352	0.00497851	0.00541742	0.00500419	0.00519918	0.00525311	0.00496897
	0.00454877	0.00506335	0.00453146	0.00481041	0.00553176	0.005469	0.00555895
	0.00516855	0.00529603	0.00534891	0.00504584	0.00528688	0.00572112	0.0055868
	0.00502878	0.0045279	0.00473557	0.00480252	0.00509576	0.006134	0.00573328
- [0.00461811	0.00597245	0.00565035	0.00469876	0.00469557	0.00612793	0.0060323
	0.00631139	0.00526885	0.0050417	0.00813967	0.00606959	0.00563675	0.00557402
5	0.00587209	0.00957038	0.00868976	0.00586744	0.00583454	0.00559273	0.00573601
ા	0.00551086	0.00614896	0.00550906	0.00607528	0.00550366	0.00530622	0.00571353
	0.00580661	0.00562087	0.00611051	0.00612497	0.00602824	0.00623198	0.00558947
- 1	0.00580059	0.00582415	0.00562055	0.00565412	0.00571289	0.00595915	0.00545162
ı	0.00549245	q.00579206	Q.0Q57352	0.00603649	0.00587363	0.00584111	0,00524558
1		,	3	4	5	6	7

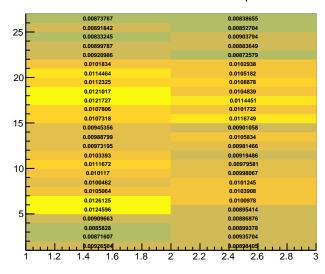
New ADC Gain Coefficients | SH

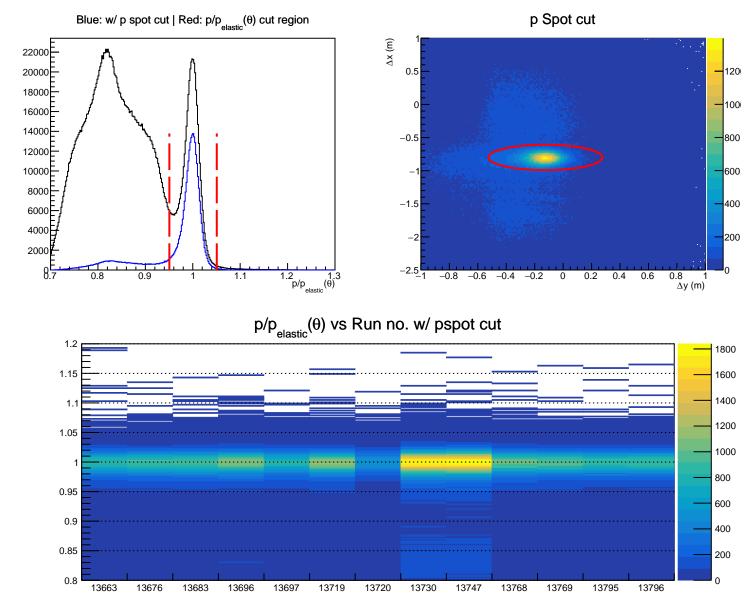


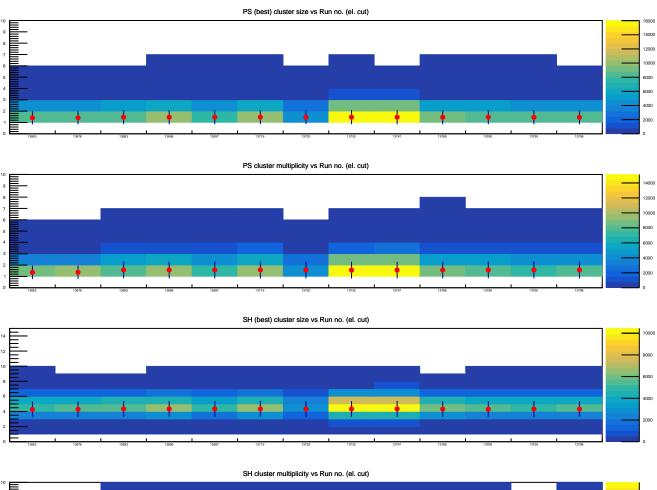
Old ADC Gain Coefficients | PS

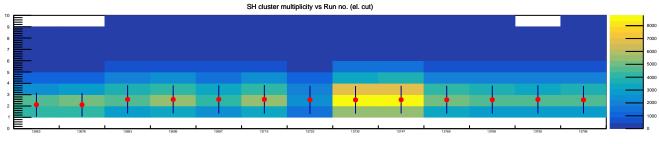


New ADC Gain Coefficients | PS









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Date of creation: 8/18/2023
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Configfile: BBCal_replay/macros/Combined_macros/cfg/sbs9-sbs70p-set2.cfg

Total # events analyzed: 7009919, Preparing for replay pass: 2 E/p (before calib.) | μ = 0.97, σ = (6.802 \pm 0.019) p

E/p (after calib.)
$$| \mu = 0.99, \sigma = (7.111 \pm 0.022) p$$

Global cuts:

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

abs(bb.tr.r_x[0]-0.9*bb.tr.r_th[0]-0.025)<0.3,

PS cluster energy > 0.2 GeV p_recon > 1.2 GeV/c

events passed global cuts: 2187234

Elastic cuts:

 $|p/p_{el}(\theta) - 1.001| \le 5.0*0.010$

proton spot cut ranges: Δx (m): Mean = -0.8000, 2.0 σ = 0.0960

 Δy (m): Mean = -0.1250, 4.0σ = 0.1000

events passed global & elastic cuts: 254813

Other cuts:

Minimum # events per block: 200, (Cluster) hit threshold: 0.05 GeV

Various offsets:

Momentum fudge factor: 1.00, BBCAL cluster energy scale factor: 1.00 Momentum calibration factors: A = 0.270277690, B = 0.885406510, C = 0.0, θ_{pitch}^{GEM} = 10.0°, d_{BB} = 1.5500 m

Macro processing time: CPU 482.1s | Real 599.6s