

0.1

0.2

0.4

sh.y - tr.y (m)

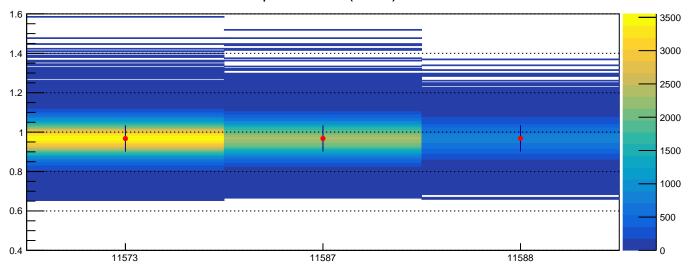
-0.1

0.2

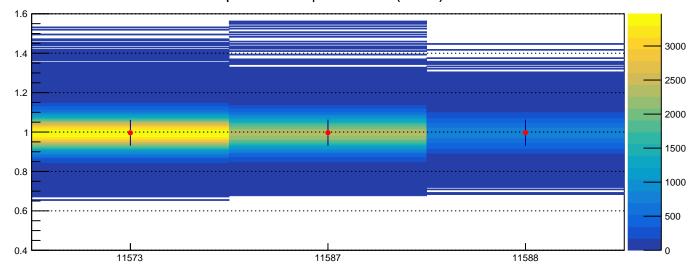
0.4

sh.x - tr.x (m)

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



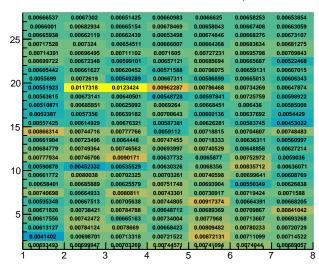
E/p vs Run no. | After Calib. (el. cut)



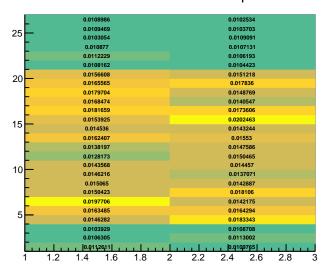
Old ADC Gain Coefficients | SH

	_0.00666537	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	0.00711102	0.0071605	0.00727231	0.00695798	0.00709843
	0.00699722	0.00672348	0.00599101	0.00657121	0.00685694	0.00665687	0.00522468
	0.00605442	0.00661627	0.00620452	0.00571588	0.00706075	0.00659131	0.00667015
20	0.0055699	0.0072619	0.00549289	0.00667311	0.00586899	0.00665013	0.00606343
	0.00551923	0.00622348	0.00687016	0.006263	0.00692299	0.0063963	0.00550302
	0.00562196	0.00665431	0.00646989	0.00556764	0.00604802	0.00726156	0.00617769
	0.00519218	0.00674929	0.00624147	0.00671914	0.00657026	0.0062943	0.00593319
	0.00542574	0.00563622	0.00625348	0.00687264	0.00591306	0.00623175	0.00548076
15	0.00555383	0.00608729	0.00661516	0.00577991	0.00610116	0.00576454	0.00503409
	0.00826153	0.00730443	0.00760147	0.00583612	0.00701287	0.00689607	0.00734173
	0.00663984	0.00711308	0.00634279	0.00732502	0.00695345	0.00620687	0.00575529
	0.00691415	0.00733216	0.0072866	0.00678525	0.00726786	0.00633658	0.00625632
	0.00754517	0.00737067	0.00879974	0.00633639	0.00645217	0.00729558	0.00562197
10	0.00589128	0.00475796	0.00543137	0.00625499	0.00669589	0.00812637	0.00658226
	0.00651896	0.00771218	0.00682838	0.006777	0.00710169	0.00665817	0.00583221
	0.00651801	0.00670515	0.00612225	0.00730066	0.00679249	0.0055355	0.00594833
	0.0075652	0.00642913	0.00784875	0.00709094	0.00700262	0.0068555	0.00738201
	0.00598584	0.00664167	0.00703446	0.00742634	0.00889926	0.00653882	0.00677423
5	0.00697665	0.0075069	0.00786307	0.00665949	0.00702416	0.00724233	0.00800923
	0.00666504	0.00753975	0.00681952	0.00764747	0.00816985	0.00739002	0.00693268
	0.00708558	0.0089558	0.00804749	0.0071919	0.00732461	0.00761251	0.00720729
	0.00719419	0.00720493	0.00696023	0.00695777	0.00696042	0.00711099	0.00714522
ı	0.00693493	0.00699947	0,00703269	q.0074457 ₁ 1	0.00741094	0.0074044	0.00689057
1		2 :	3 4	1	5	6	7

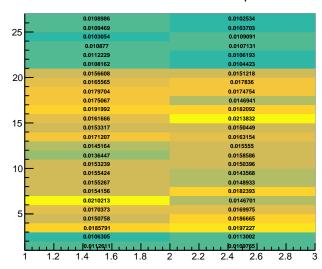
New ADC Gain Coefficients | SH

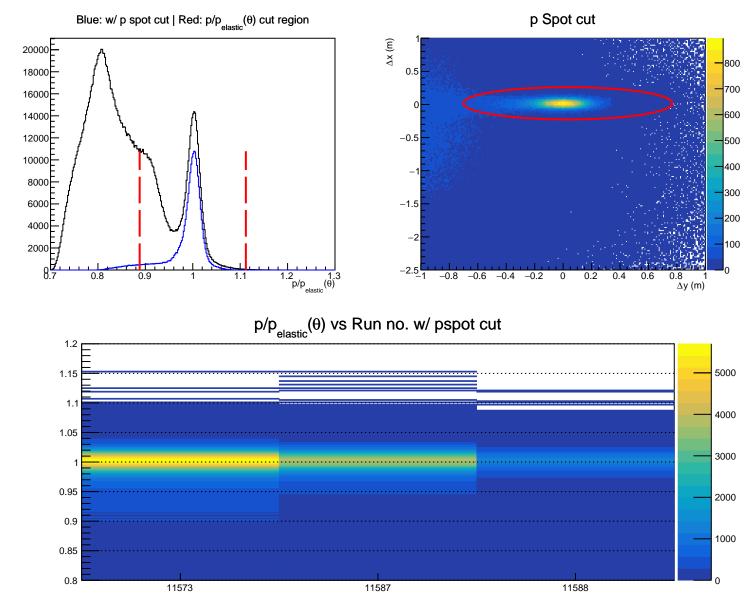


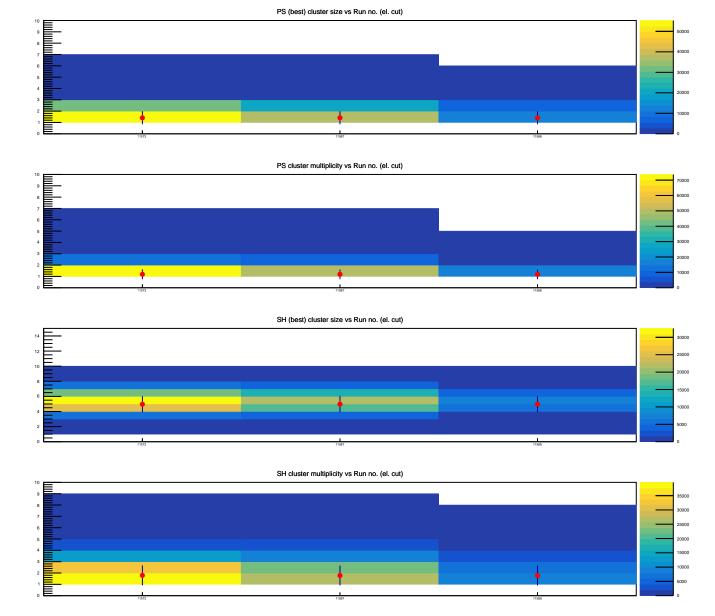
Old ADC Gain Coefficients | PS



New ADC Gain Coefficients | PS







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Date of creation: 6/21/2023
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Configfile: BBCal_replay/macros/Combined_macros/cfg/sbs4-sbs0p.cfg
Total # events analyzed: 4693901, Preparing for replay pass: 2
```

E/p (before calib.) | μ = 0.97, σ = (5.997 \pm 0.000) p E/p (after calib.) | μ = 1.00, σ = (6.027 \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: 1669027

Elastic cuts:

 $|p/p_{el}(\theta) - 1.000| \le 8.0*0.014$ proton spot cut ranges:

 Δx (m): Mean = 0.0180, 4.0 σ = 0.0610

 Δx (m): Mean = 0.0180, 4.0 σ = 0.0610 Δy (m): Mean = 0.0330, 5.0 σ = 0.1470

events passed global & elastic cuts: 215760

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

Various offsets:

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

Momentum calibration factors: A = 0.270388074, B = 1.030707300, C = 0.0, θ_{pitch}^{GEM} = 10.0°, d_{BB} = 1.7988 m Macro processing time: CPU 338.7s | Real 404.8s