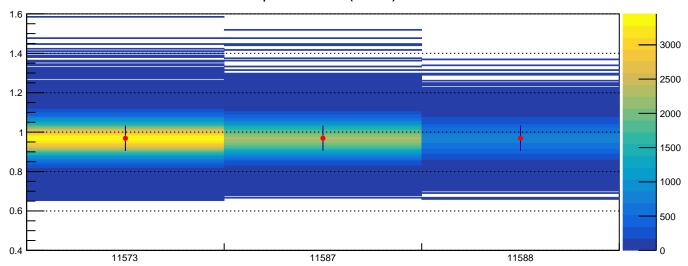


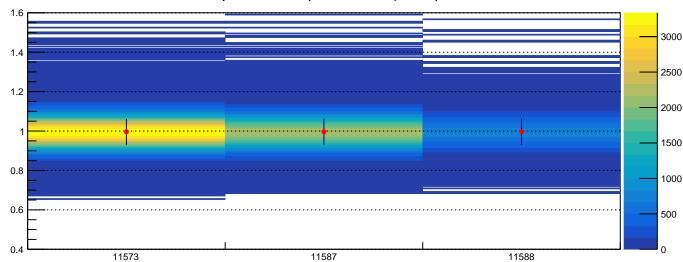
sh.y - tr.y (m)

sh.x - tr.x (m)

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



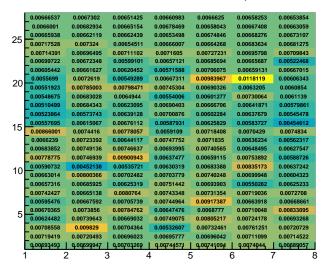
E/p vs Run no. | After Calib. (el. cut)



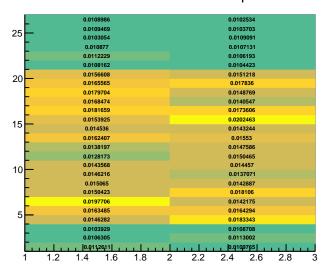
Old ADC Gain Coefficients | SH

	_0.00666537	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

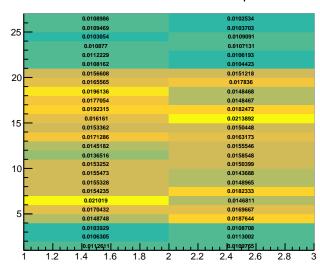
New ADC Gain Coefficients | SH

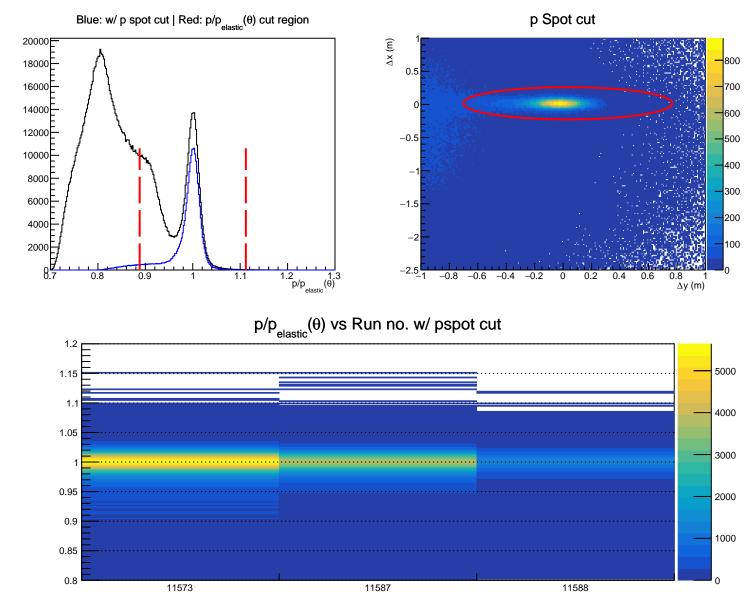


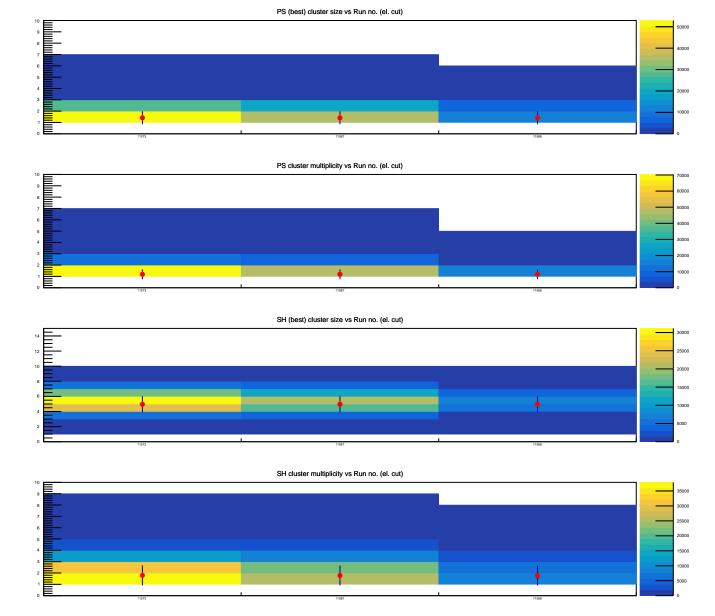
Old ADC Gain Coefficients | PS



New ADC Gain Coefficients | PS







```
Date of creation: 8/18/2023
Configfile: BBCal_replay/macros/Combined_macros/cfg/sbs4-sbs0p.cfg
```

```
Total # events analyzed: 4693901, Preparing for replay pass: 2
```

E/p (before calib.) |
$$\mu$$
 = 0.97, σ = (5.926 \pm 0.023) p
E/p (after calib.) | μ = 1.00, σ = (6.026 \pm 0.024) p

Global cuts:

events passed global cuts: 1549909

Elastic cuts:

$$|p/p_{el}(\theta) - 1.000| \le 8.0*0.014$$

proton spot cut ranges:
$$\Delta x$$
 (m): Mean = 0.0180, 4.0 σ = 0.0610

$$\Delta$$
y (m): Mean = 0.0330, 5.0σ = 0.1470 # events passed global & elastic cuts: 206196

Other cuts:

Minimum # events per block: 300, (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 340.5s | Real 412.9s