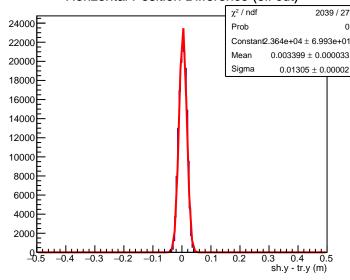
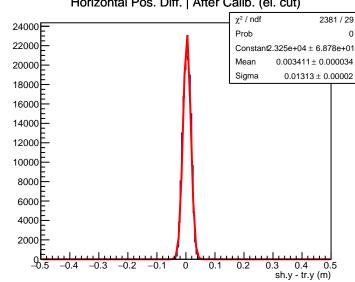


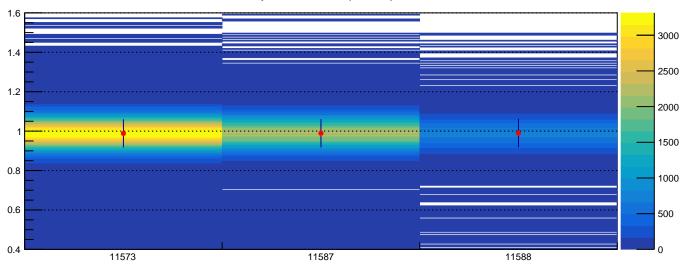
# Horizontal Position Difference (el. cut)



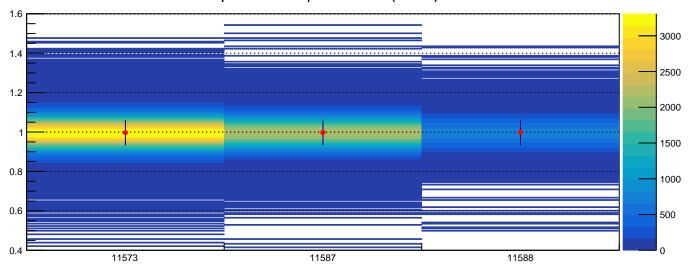
## Horizontal Pos. Diff. | After Calib. (el. cut)



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



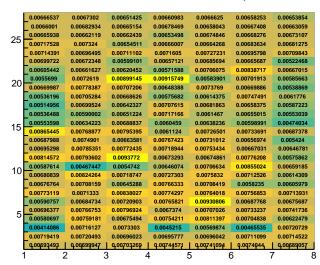
E/p vs Run no. | After Calib. (el. cut)



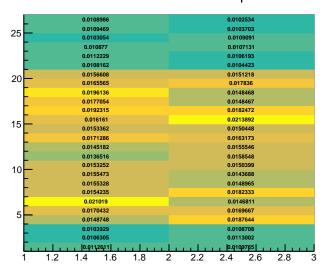
### Old ADC Gain Coefficients | SH

	0.00000507	0.0007000	0.00054405	0.0000000	0.0000005	0.00050050	0.00050054
- 1	_0.00666537	0.0067302	0.00651425	0.00660983	0.0066625	0.00658253	0.00653854
- 1	_ 0.0066001	0.00682934	0.00665154	0.00678469	0.00658043	0.00667408	0.00663059
25	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
- 1	0.00605442	0.00661627	0.00620452	0.00571588	0.00706075	0.00659131	0.00667015
20	0.0055699	0.0072619	0.00549289	0.00667311	0.00983967	0.0118119	0.00606343
	0.00551923	0.00785003	0.00798471	0.00745304	0.00690326	0.0063205	0.0060854
	0.00548675	0.00683028	0.0064944	0.00554006	0.00601277	0.00730064	0.0061139
	0.00510499	0.00684343	0.00623095	0.00690403	0.00666706	0.00641871	0.00579861
	0.00523864	0.00573743	0.00639128	0.00700876	0.00602284	0.00637679	0.00545478
15	0.00557695	0.00615067	0.00676112	0.00587931	0.00625829	0.00583727	0.00454612
13	0.00866001	0.0074416	0.00778057	0.0059109	0.00718408	0.0070429	0.0074834
	0.0066239	0.00723392	0.00644117	0.00747752	0.0071835	0.00636234	0.00562317
	0.00683852	0.00749136	0.00746637	0.00693995	0.00740565	0.00648495	0.00627547
	0.00778775	0.00746939	0.00900943	0.00637477	0.00659115	0.00753892	0.00588726
10	0.00590732	0.00452138	0.00535721	0.00630319	0.00683388	0.00835173	0.00637242
10	0.00663014	0.00800366	0.00702482	0.00703779	0.00740248	0.00699948	0.00604323
	0.00657316	0.00685925	0.00625319	0.00751442	0.00693903	0.00550282	0.00625233
	0.00742427	0.00665138	0.0080764	0.00743348	0.00731354	0.00719036	0.0072708
- [	0.00595476	0.00667592	0.00705739	0.00744964	0.00917387	0.00663918	0.00668661
5	0.00670365	0.0073856	0.00784762	0.00647476	0.0068777	0.00710048	0.00833095
ા	0.00624482	0.00739643	0.00669032	0.00749075	0.00805217	0.00724178	0.00693268
- 1	0.00708558	0.009829	0.00704364	0.00532607	0.00732461	0.00761251	0.00720729
- 1	0.00719419	0.00720493	0.00696023	0.00695777	0.00696042	0.00711099	0.00714522
ı	0.00693493	0.00699947	0,00703269	q.0q74457 <sub>1</sub> 1	0.00741094	0.0074044	0.00689057
i		2 :	3 4	1	5	6	7

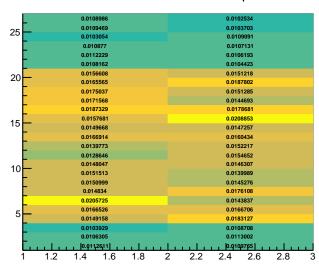
### New ADC Gain Coefficients | SH

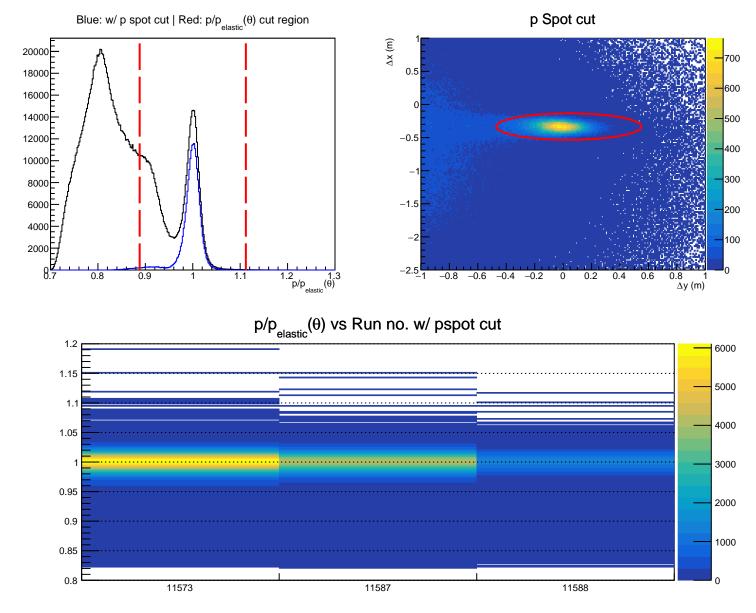


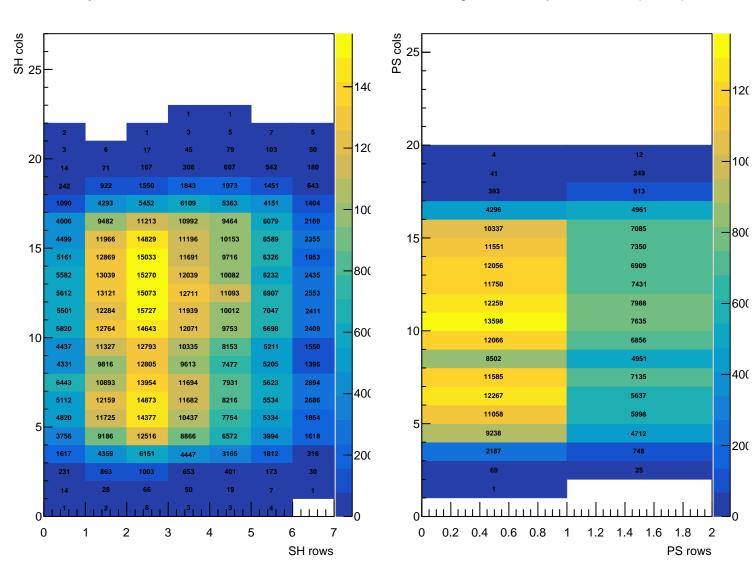
#### Old ADC Gain Coefficients | PS

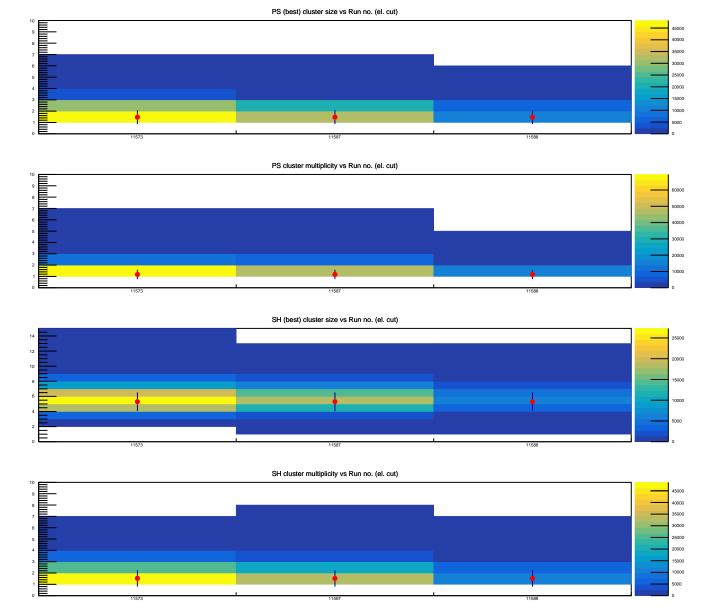


## New ADC Gain Coefficients | PS









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Date of creation: 12/12/2023
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#### Configfile: BBCal\_replay/macros/Combined\_macros/cfg/sbs4-sbs0p.cfg

Total # events analyzed: 5163770, Preparing for replay pass: 2

E/p (before calib.) |  $\mu$  = 0.99,  $\sigma$  = (5.980  $\pm$  0.019) p E/p (after calib.) |  $\mu$  = 1.00,  $\sigma$  = (5.937  $\pm$  0.024) 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]-0.02)<0.33,
PS cluster energy > 0.2 GeV

p\_recon > 1.6 GeV/c

# events passed global cuts: 1631830

Elastic cuts: |p/p<sub>ol</sub>(θ) - 1.000| ≤ 8.0\*0.014

proton spot cut ranges:

 $\Delta x$  (m): Mean = -0.3340, 2.0 $\sigma$  = 0.1000

 $\Delta$ y (m): Mean = 0.0400, 3.0 $\sigma$  = 0.1700 # events passed global & elastic cuts: 199974

Other cuts:

Minimum # events per block: 80 | Cluster hit threshold: 0.02 GeV (SH), 0.01 GeV (PS)

Cluster tmax cut: 10.0 ns (SH), 10.0 ns (PS) | Cluster energy fraction cut: 0.0 GeV (SH), 0.0 GeV (PS)

#### Various offsets:

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

Macro processing time: CPU 447.2s | Real 1250.4s