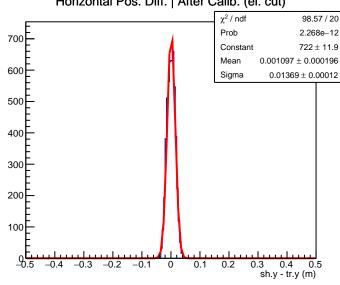
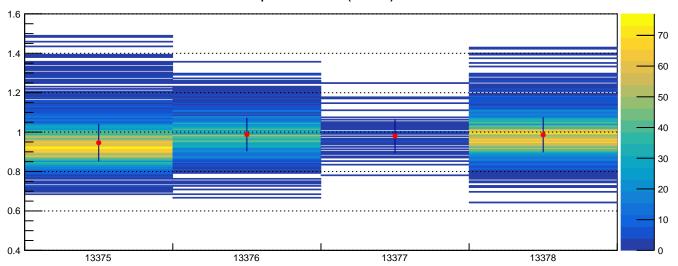


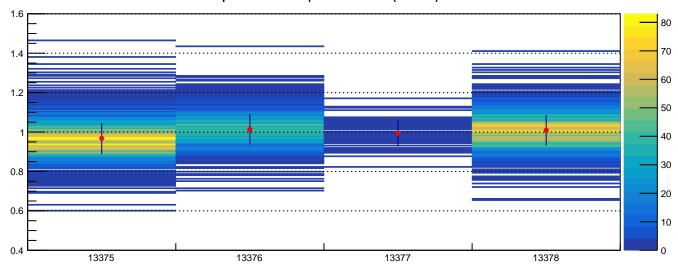
# Horizontal Pos. Diff. | After Calib. (el. cut)



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



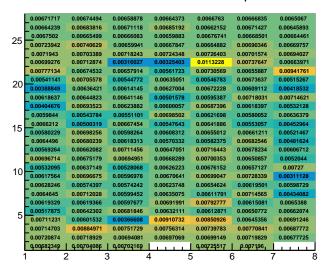
E/p vs Run no. | After Calib. (el. cut)



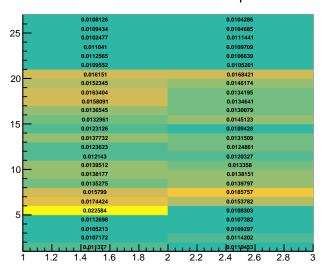
## Old ADC Gain Coefficients | SH

	0.00671717	0.00674494	0.00658878	0.00664373	0.0066763	0.00666835	0.0065067
25	0.00664239	0.00683816	0.00671118	0.00685192	0.00662152	0.00671427	0.00645893
	0.0067502	0.00665499	0.00666083	0.00659883	0.00676741	0.00668501	0.00664461
	0.00723942	0.00740629	0.00659941	0.00667847	0.00664882	0.00690346	0.00669757
	0.0071943	0.00703389	0.00718243	0.00724348	0.00726403	0.00701574	0.00694027
	0.00699276	0.00712874	0.00684962	0.00658502	0.00706097	0.00723586	0.00663971
20	0.00693747	0.0067598	0.00576619	0.00490043	0.00647723	0.00634275	0.00690415
	0.00510472	0.0065676	0.00540585	0.00601813	0.00515254	0.00644571	0.00672443
	0.0053179	0.00584196	0.00573018	0.00589527	0.0064814	0.0057528	0.00703444
	0.00551213	0.00611219	0.0059676	0.00522116	0.00590658	0.0069097	0.00595181
	0.00505984	0.00657732	0.0060531	0.00598052	0.00648951	0.00598592	0.00518299
15	0.00516529	0.00551067	0.00558757	0.00662403	0.0057458	0.00579635	0.00446274
	0.0055332	0.0054856	0.00626379	0.00555496	0.00630165	0.00567223	0.00579063
	0.00639465	0.00674956	0.00590825	0.00621037	0.00613212	0.00628611	0.0059102
	0.00609136	0.00667807	0.00595549	0.00561923	0.00583454	0.00627271	0.00553511
	0.0068746	0.0064654	0.00707587	0.00616597	0.00666493	0.0061446	0.00558288
10	0.00682635	0.00664875	0.00681006	0.00648723	0.00664161	0.00651024	0.00540142
	0.00524033	0.00635764	0.00529031	0.00590922	0.0063433	0.00679102	0.00691827
	0.00656187	0.00654144	0.00586441	0.0064792	0.00642151	0.00679997	0.00696492
	0.00613585	0.00559573	0.00555797	0.00583228	0.00607423	0.00683772	0.00710329
	0.00637448	0.0067016	0.00583159	0.00554089	0.00495777	0.0078782	0.00747061
5	0.00584364	0.00621071	0.00604409	0.00620438	0.00934072	0.00697276	0.00690658
	0.0062007	0.00666937	0.00690923	0.0083498	0.00994009	0.00689929	0.0071429
	0.00691047	0.00755947	0.00682738	0.00746927	0.00662784	0.00645356	0.00691246
	0.00714703	0.00688045	0.00751729	0.00756314	0.00739783	0.00770841	0.00687772
	0.00720874	0.00718929	0.00694081	0.00697069	0.00699149	0.00719829	0.00677725
	0.00682349	Q.00704086	0.00702169		0.00725517	0.007196	
	1 1	2 ;	3	4	5 6	` '	7 8
		_	, .	т ,		,	'

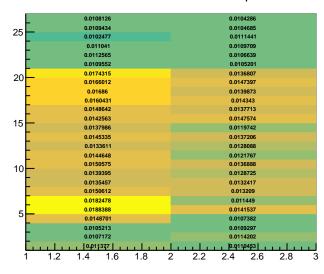
### New ADC Gain Coefficients | SH

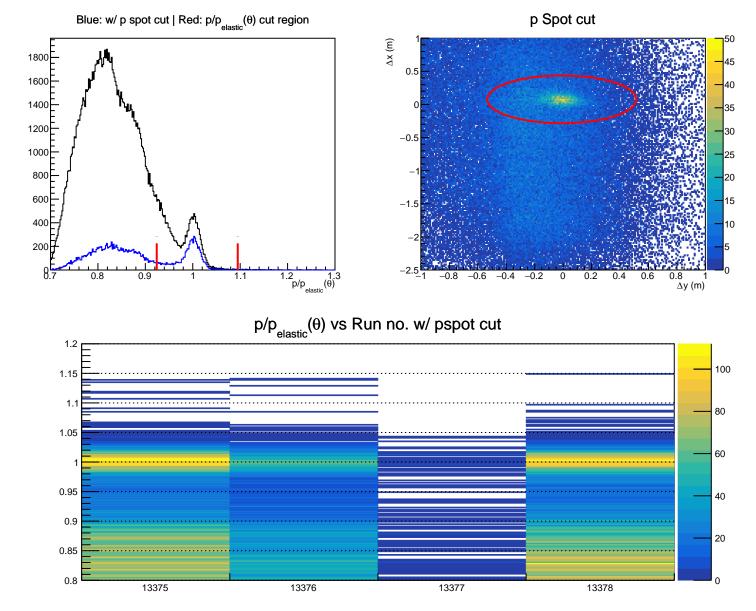


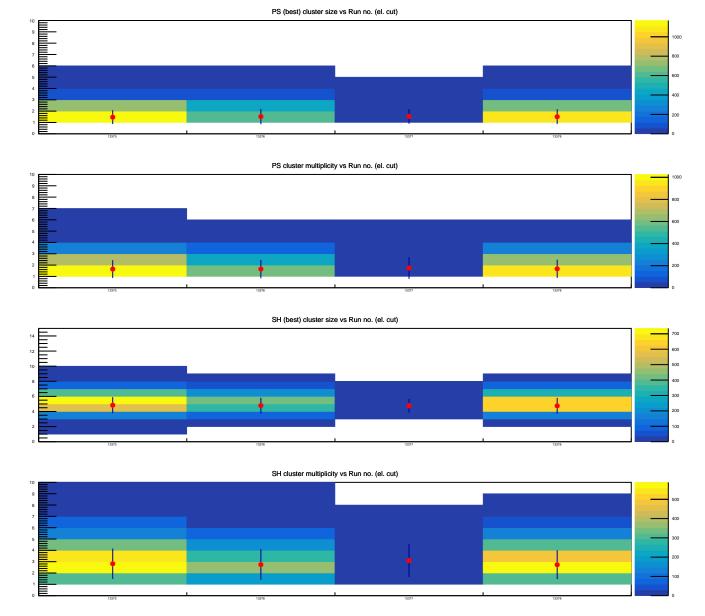
### Old ADC Gain Coefficients | PS



## 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/sbs14-sbs0p.cfg

Total # events analyzed: 839249, Preparing for replay pass: 2 E/p (before calib.) |  $\mu$  = 0.96,  $\sigma$  = (7.385  $\pm$  0.133) p

E/p (after calib.)  $| \mu = 0.99, \sigma = (7.133 \pm 0.151) p$ 

### 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]-0.035)<0.335, PS cluster energy > 0.2 GeV

p\_recon > 1.5 GeV/c

# events passed global cuts: 151593 **Elastic cuts:** 

 $|p/p_{ol}(\theta) - 1.009| \le 6.0*0.014$ 

proton spot cut ranges:

 $\Delta x$  (m): Mean = 0.0770, 5.0 $\sigma$  = 0.0720

 $\Delta y$  (m): Mean = -0.0098, 6.0 $\sigma$  = 0.0873

# events passed global & elastic cuts: 6065 Other cuts:

Minimum # events per block: 15, (Cluster) hit threshold: 0.02 GeV

#### Various offsets:

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

Momentum calibration factors: A = 0.266377000, B = 0.956035000, C = 0.0,  $\theta_{\text{nitch}}^{\text{GEM}}$  = 10.0°, d<sub>BB</sub> = 1.8479 m Macro processing time: CPU 53.8s | Real 57.2s