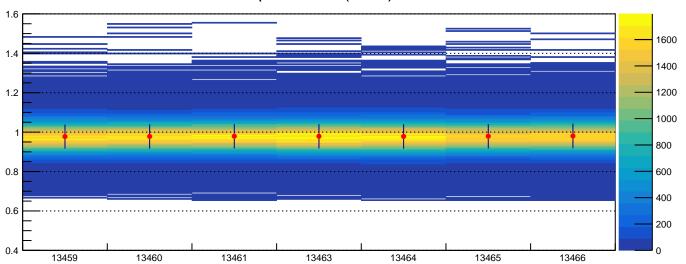


1.201e+04 / 24

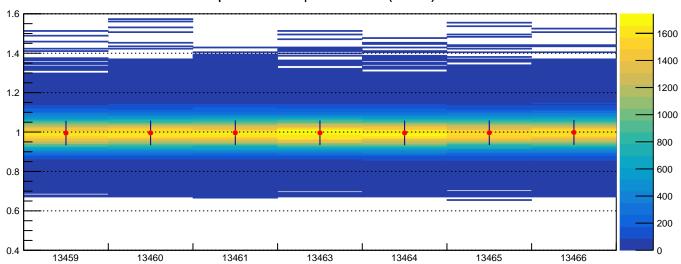
 $0.0125 \pm 0.0000$ 

 $0.003114 \pm 0.000025$ 

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



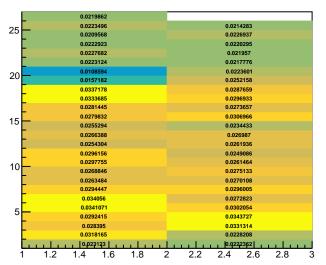
E/p vs Run no. | After Calib. (el. cut)



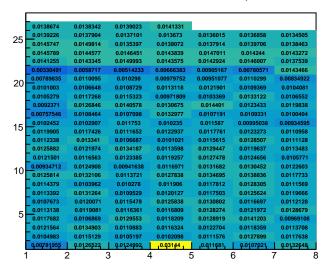
### Old ADC Gain Coefficients | SH

												-		-
	0.0138674		0.0138342		0.0139023		0.0141331							
25	0.0139226		0.0137904		0.0137101		0.013673		0.0136015		0.0136858		0.0134505	ı
	0.0145747		0.0149814		0.0135397		0.0138072		0.0137914		0.0139706		0.0138463	
	0.0145789		0.0144577		0.0146451		0.0143839		0.0147011		0.014244		0.0143272	
	0.0141255		0.0143345		0.0149993		0.0143575		0.0142924		0.0146007		0.0137539	
20	0.00330491		0.0058717		0.00514233		0.00666383		0.00905167		0.00780571		0.0143466	
	0.00789835		0.0110095		0.010298		0.00979752		0.00951077		0.0110299		0.00834922	
	0.0101003		0.0106648		0.0108729		0.0113118		0.0121901		0.0109369		0.0104081	
	0.0105279		0.0117268		0.0115323		0.00971809		0.0103369		0.0133122		0.0106552	
	0.0092371		0.0126846		0.0107898		0.011906		0.0131997		0.0115245		0.0106346	
15	0.00863909		0.010323		0.0103591		0.0129448		0.0105845		0.010902		0.0104205	
	0.00990537		0.0103614		0.0115727		0.010133		0.0113854		0.00987669		0.00981661	
	0.0120556		0.0117296		0.0110137		0.0121791		0.011579		0.0121998		0.0114533	
	0.0111207		0.0131881		0.0105848		0.0100206		0.0114763		0.012451		0.011571	
	0.0122947		0.0120673		0.0132308		0.0111919		0.012599		0.0115305		0.0118795	
	0.0119703		0.0115686		0.0121643		0.0116656		0.0124225		0.0121515		0.0107652	
10	0.00958184		0.0123553		0.00960194		0.0113815		0.0128739		0.0125186		0.0126472	
	0.0125384		0.0128821		0.011458		0.0122648		0.0129512		0.0132652		0.0119893	
	0.0115819		0.0102211		0.0101708		0.0114364		0.0113661		0.0124326		0.0103717	
5	0.0112688		0.0128477		0.0108892		0.0115262		0.011207		0.0122409		0.0121822	
	0.0108159		0.011708		0.0112799		0.0123027		0.0124854		0.0113542		0.0109137	
	0.0112859		0.0116731		0.0114606		0.0112565		0.0122411		0.01191		0.0116961	
	0.0116449		0.0106777		0.0125551		0.011528		0.012333		0.0128499		0.00969108	
	0.0109787		0.0127911		0.0109966		0.0116653		0.0116841		0.0112822		0.0113708	
	0.0104983		0.0126336		0.0128984		0.0125548		0.013367		0.0127899		0.0117638	
	0.00781955	1	0.0126522	1	0.0124992	Ī	0.93144		0.011681	1	0.0107021	1	0.0132648	
7	1	2		3		4		5		6		7		

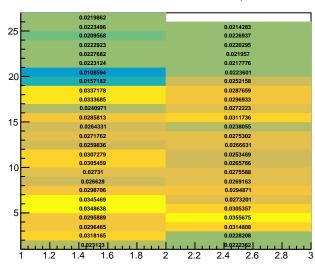
# Old ADC Gain Coefficients | PS

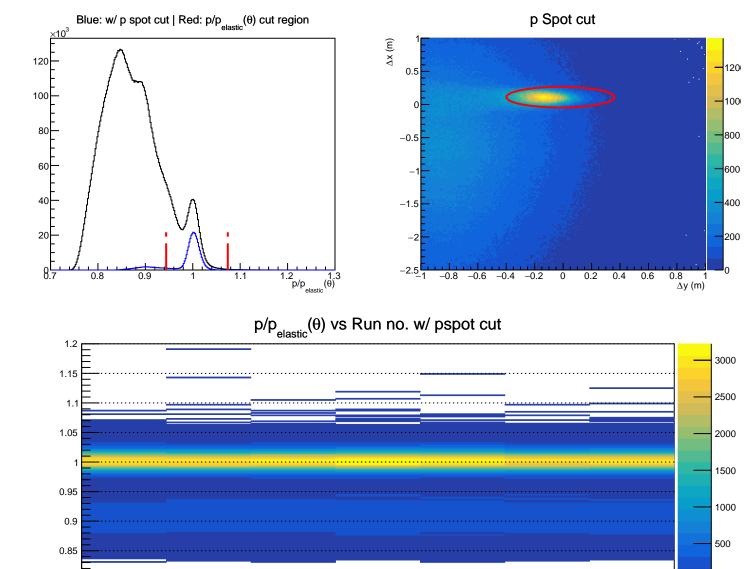


#### New ADC Gain Coefficients | SH

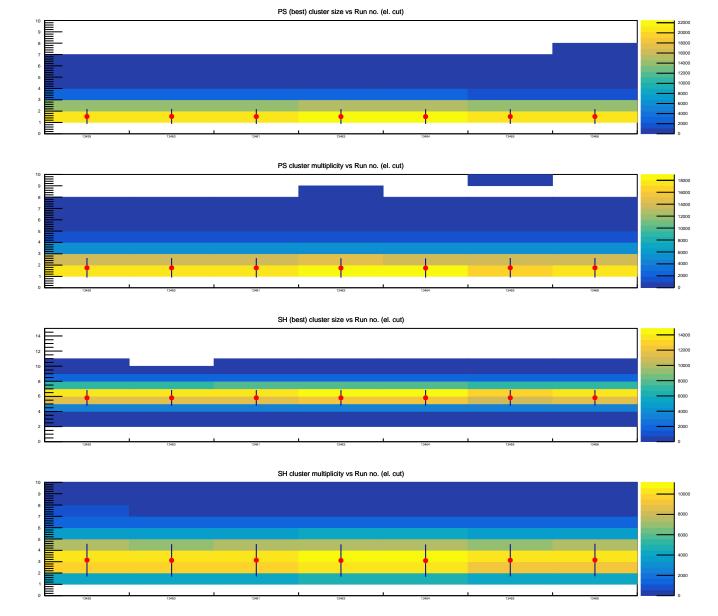


### New ADC Gain Coefficients | PS





0.8



```
Date of creation: 8/18/2023
```

## Configfile: BBCal\_replay/macros/Combined\_macros/cfg/sbs8-sbs0p.cfg

Total # events analyzed: 24209121, Preparing for replay pass: 2 E/p (before calib.) |  $\mu$  = 0.98,  $\sigma$  = (5.415  $\pm$  0.015) p

E/p (after calib.) |  $\mu$  = 0.99,  $\sigma$  = (5.444  $\pm$  0.016) 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)<0.345,

PS cluster energy > 0.2 GeV

p\_recon > 2.9 GeV/c # events passed global cuts: 9278723

Elastic cuts:

 $|p/p_{el}(\theta) - 1.009| \le 5.0*0.013$ proton spot cut ranges:

 $\Delta x$  (m): Mean = 0.1100, 2.0 $\sigma$  = 0.0780

 $\Delta$ y (m): Mean = -0.0190, 2.0 $\sigma$  = 0.1900 # events passed global & elastic cuts: 325153

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 = 0.289504670, B = 1.039268300, C = 0.0,  $\theta_{pitch}^{GEM}$  = 10.0°,  $d_{BB}$  = 1.9747 m

Macro processing time: CPU 1491.6s | Real 2170.7s