

0.1

0.2

0.4

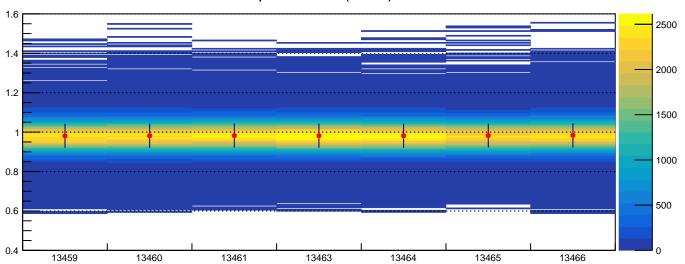
sh.y - tr.y (m)

0.2

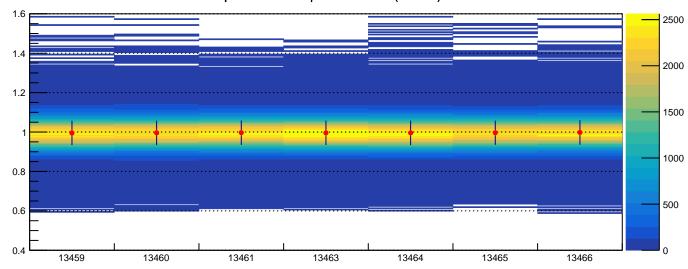
0.4

sh.x - tr.x (m)

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



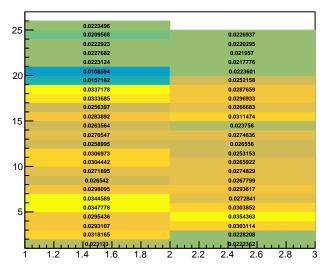
E/p vs Run no. | After Calib. (el. cut)



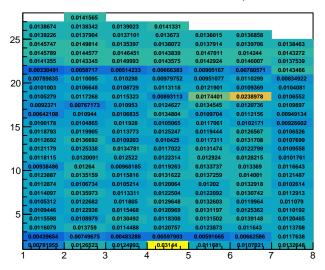
Old ADC Gain Coefficients | SH

- 1			0.0141565											-
	0.0138674		0.0138342		0.0139023		0.0141331							
25	0.0139226		0.0137904		0.0137101		0.013673		0.0136015		0.0136858			
	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		0.0124947		0.0130857		0.0144737		0.0127594		0.0119318	
15	0.00593054		0.0109932		0.0106422		0.0133287		0.010735		0.0109119		0.00993148	
	0.0103486		0.0102718		0.0117668		0.0102144		0.0115534		0.00994588		0.00942175	
	0.0119811		0.0117225		0.0111431		0.0122789		0.011781		0.0122809		0.0112947	
	0.011319		0.0133224		0.0106677		0.0100943		0.011539		0.0128281		0.0111039	
	0.0125424		0.0121732		0.0134083		0.011346		0.0129459		0.0119691		0.0114452	
10	0.0121109		0.0116372		0.0123043		0.011898		0.0127163		0.012449		0.0104786	
	0.00929577		0.012488		0.00940292		0.0116879		0.0131389		0.0130272		0.012234	
	0.0125102		0.0132036		0.0113678		0.0128083		0.0134615		0.0138722		0.0119559	
	0.0114709		0.0103922		0.0102683		0.0119046		0.011789		0.0128468		0.0109989	
5	0.0113925		0.0130724		0.0109525		0.0119992		0.0117709		0.0125568		0.0119985	
	0.0107375		0.0120047		0.0115517		0.0126008		0.0130655		0.0116736		0.0113704	
	0.0112645		0.0118965		0.011632		0.0116814		0.012858		0.0121952		0.0117606	
	0.0118031		0.0106728		0.0129453		0.0118251		0.0128705		0.0137426		0.0110152	
	0.011781		0.0134249		0.0110687		0.0116625		0.0123401		0.0117089		0.0113708	
	0.00722255		0.0108982		0.0112795		0.00962515		0.0104094		0.0127899		0.0117638	
	Q.00781955		0.0126522		0.0124992		0.03144		0.011681		0.0107021	1	0.0132648	
1		2		3		4		5		6		7		

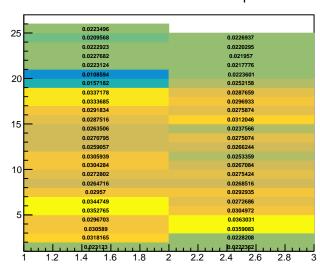
Old ADC Gain Coefficients | PS

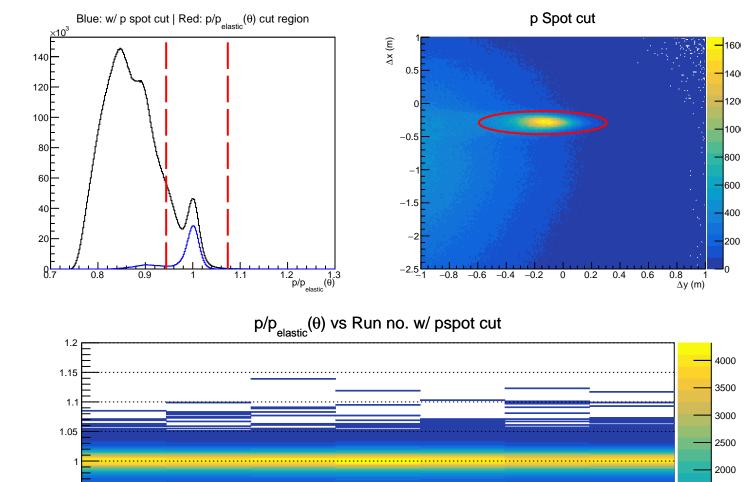


New ADC Gain Coefficients | SH



New ADC Gain Coefficients | PS



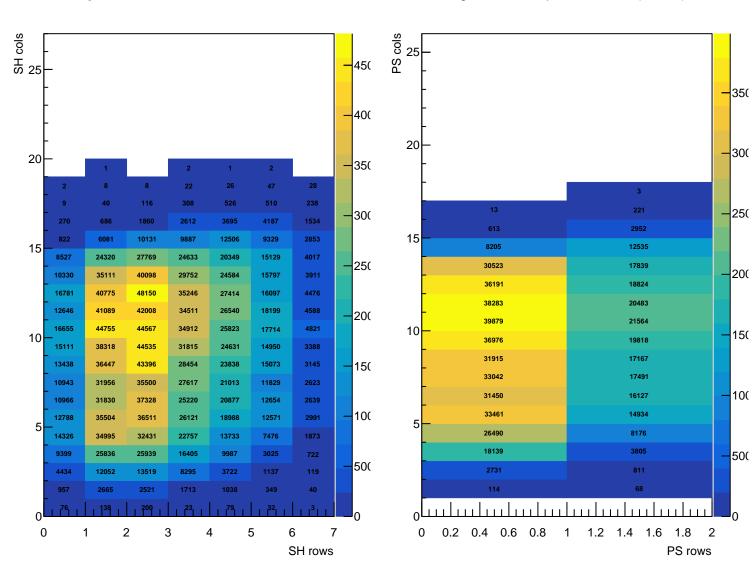


0.95

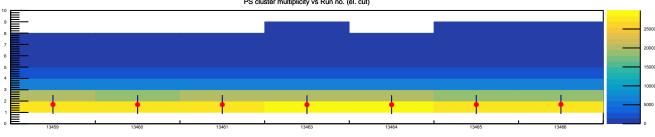
0.9

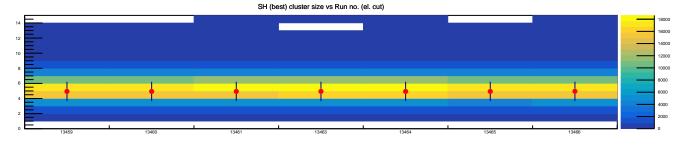
0.85

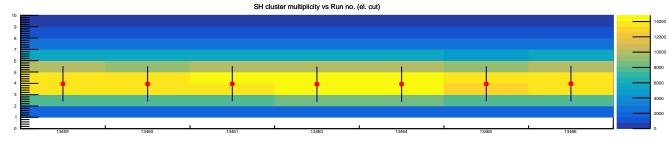
0.8



PS (best) cluster size vs Run no. (el. cut) PS cluster multiplicity vs Run no. (el. cut)







```
Date of creation: 12/12/2023
```

Configfile: BBCal_replay/macros/Combined_macros/cfg/sbs8-sbs0p.cfg

Total # events analyzed: 26915327, Preparing for replay pass: 2

E/p (before calib.) | μ = 0.98, σ = (5.393 ± 0.012) p E/p (after calib.) | μ = 0.99, σ = (5.429 ± 0.013) 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: 10649643

Elastic cuts:

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

 Δx (m): Mean = -0.2900, 2.0 σ = 0.0870

 Δ y (m): Mean = -0.1430, 2.5 σ = 0.1800

events passed global & elastic cuts: 487911

Other cuts:

Minimum # events per block: 300 | 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)

7 dater tillax cut. 10.0 113 (011), 10.0 113 (1 0) | Oldster c

Various offsets:

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

Macro processing time: CPU 2209.3s | Real 4842.1s