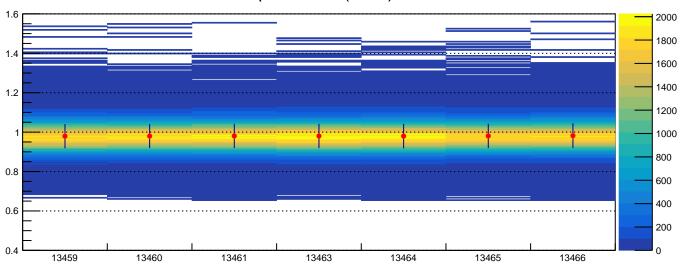
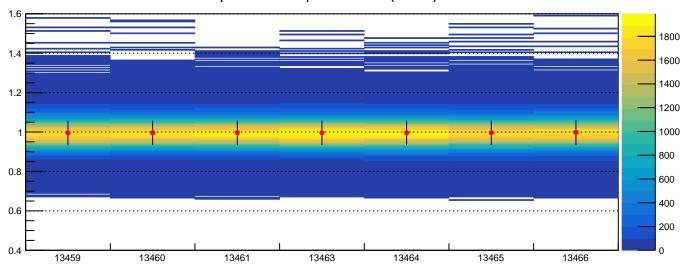


E/p vs Run no. (el. cut)



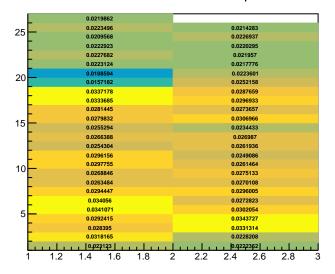
E/p vs Run no. | After Calib. (el. cut)



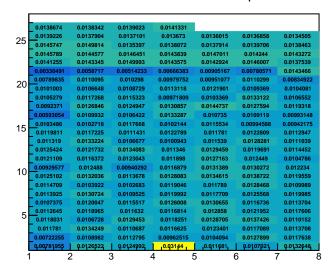
# Old ADC Gain Coefficients | SH

	0.0138674	0.0138342	0.0139023	0.0141331			
25	0.0139226	0.0137904	0.0137101	0.013673	0.0136015	0.0136858	0.0134505
	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
10	0.0119703	0.0115686	0.0121643	0.0116656	0.0124225	0.0121515	0.0107652
	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	0.0126522	0.0124992	0.93144	0.011681	J 0.0107021	0.0132648
	1 2	2	3	4	5	6	7

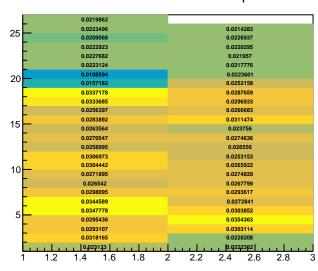
# Old ADC Gain Coefficients | PS

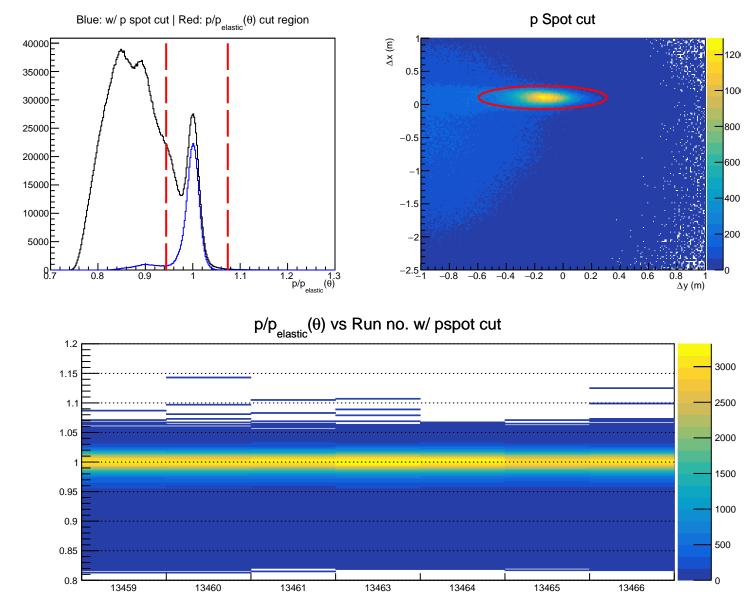


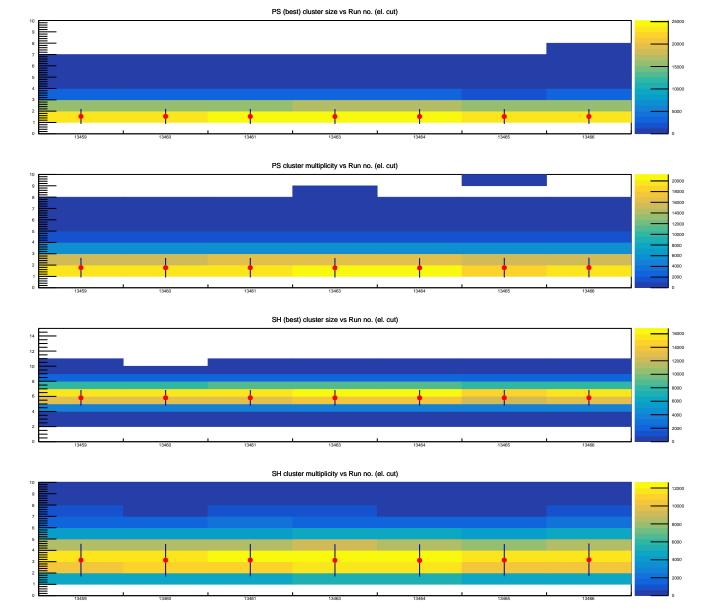
### New ADC Gain Coefficients | SH



### New ADC Gain Coefficients | PS







```
Date of creation: 8/29/2023
```

# 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,  $\sigma$  = (5.426  $\pm$  0.015) p

E/p (after calib.) |  $\mu$  = 0.99,  $\,\sigma$  = (5.482  $\pm$  0.015) 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, abs(sbs.hcal.atimeblk-bb.sh.atimeblk-47.)<5.\*2.5,

PS cluster energy > 0.2 GeV p\_recon > 2.9 GeV/c

# events passed global cuts: 3324293

Elastic cuts:  $|p/p_{el}(\theta) - 1.009| \le 5.0*0.013$ 

proton spot cut ranges:

 $\Delta x$  (m): Mean = 0.1060, 2.0 $\sigma$  = 0.0870

 $\Delta$ y (m): Mean = -0.1430, 2.5 $\sigma$  = 0.1800

# events passed global & elastic cuts: 372762
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

Mom. calib. params: A = 0.289504670, B = 1.039268300, C = 0.0, Avy = 0.000000, Bvy = 0.000000,  $\theta_{pitch}^{GEM}$  = 10.0°, d<sub>BB</sub> = 1.9747 m

Macro processing time: CPU 1341.1s | Real 1407.5s