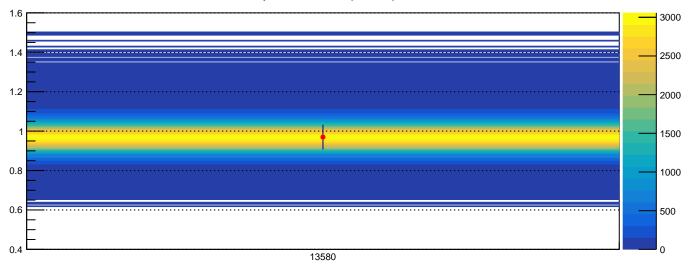
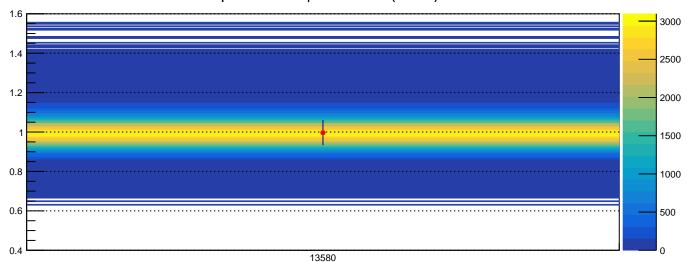


E/p vs Run no. (el. cut)



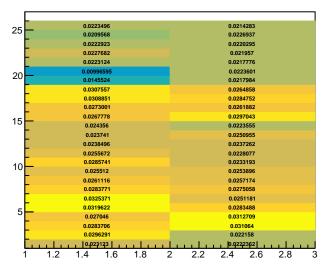
E/p vs Run no. | After Calib. (el. cut)



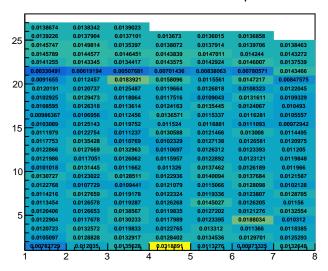
Old ADC Gain Coefficients | SH

г							
ı	0.0138674	0.0138342	0.0139023				
25	0.0139226	0.0136342	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
- 1	0.0141255	0.0143345	0.0134417	0.0143575	0.0142924	0.0146007	0.0137539
	0.00330491	0.00619194	0.00507681	0.00701436	0.00838063	0.00780571	0.0143466
20	0.0091655	0.0112457	0.0105339	0.0103464	0.0104784	0.0116921	0.00847575
	0.010605	0.0108354	0.0120572	0.0116004	0.0124472	0.0110284	0.0110044
	0.0102798	0.0125416	0.0115077	0.0111859	0.0106082	0.0128511	0.0114473
- 1	0.0106627	0.0123314	0.0110836	0.0120709	0.0132384	0.0120066	0.0110746
	0.00969683	0.010449	0.0107994	0.0130345	0.0109625	0.0112932	0.0107678
[0.0101291	0.0120281	0.0115343	0.0110225	0.0113007	0.0106059	0.0104026
15	0.0114256	0.0119716	0.010923	0.012531	0.0117691	0.0125156	0.0118685
- 1	0.0111715	0.0132147	0.0106604	0.00986752	0.0122116	0.0122058	0.0123001
- 1	0.0118443	0.0124381	0.0129986	0.0108245	0.0123161	0.0117231	0.0117466
	0.0124604	0.011421	0.0123025	0.0111989	0.0119931	0.0119124	0.0115076
10	0.00983174	0.0127871	0.0108957	0.0109905	0.0133162	0.0120496	0.0119971
	0.013112	0.011998	0.0125162	0.0117453	0.0133631	0.0130937	0.0118471
- 1	0.0117568	0.0104518	0.0105682	0.011657	0.011138	0.0121503	0.0112041
- 1	0.0113305	0.0123185	0.011495	0.0117182	0.0112122	0.0118466	0.0125208
- 1	0.011298	0.0121973	0.011395	0.0120369	0.013711	0.0120218	0.0109901
- [0.0119316	0.0122626	0.0133051	0.0115326	0.0123273	0.011886	0.0122284
5	0.0119173	0.0114898	0.0127042	0.0118161	0.012403	0.0124245	0.010312
- 1	0.0115579	0.0123398	0.0116766	0.011744	0.0119323	0.011366	0.0118385
	0.0105097	0.0128828	0.0132917	0.0128402	0.0134536	0.0129701	0.0125293
- 1	0.00782729	0.012035	0.0135628	0.0318891	0.0113276	0.00973325	0.0132648
- 1		2	3	4	5	6	7

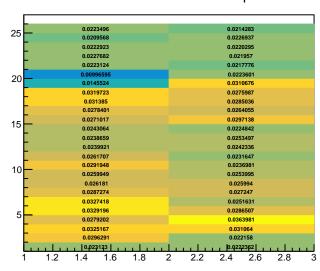
Old ADC Gain Coefficients | PS

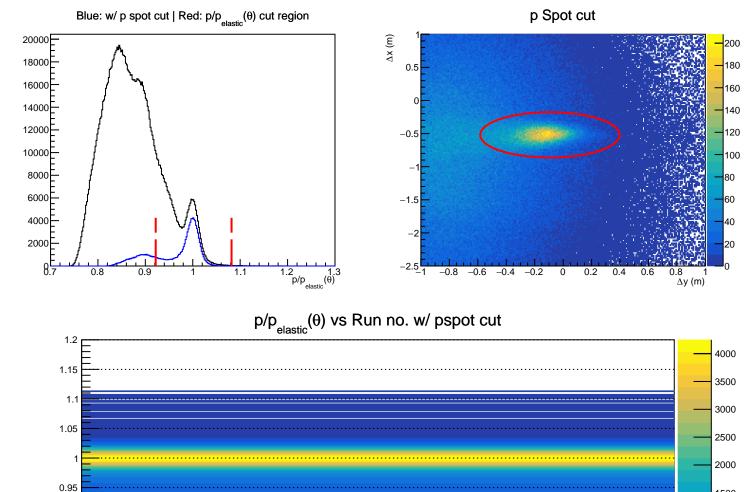


New ADC Gain Coefficients | SH



New ADC Gain Coefficients | PS





13580

0.9

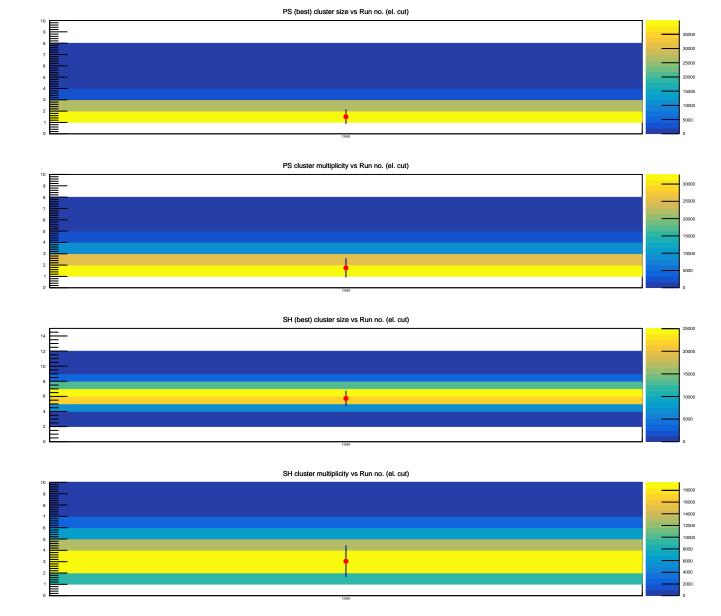
0.85

0.8

1500

1000

500



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

Configfile: BBCal_replay/macros/Combined_macros/cfg/sbs8-sbs50p.cfg

Total # events analyzed: 3676896, Preparing for replay pass: 2

E/p (before calib.) |
$$\mu$$
 = 0.97, σ = (5.342 \pm 0.029) p
E/p (after calib.) | μ = 0.99, σ = (5.483 \pm 0.031) 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: 1390087

Elastic cuts: $|p/p_{ol}(\theta) - 1.002| \le 5.0*0.016$

proton spot cut ranges:

 Δx (m): Mean = -0.5200, 3.0 σ = 0.1140

 Δy (m): Mean = -0.0930, 2.5 σ = 0.1960 # events passed global & elastic cuts: 86722

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

Momentum calibration factors: A = 0.291513950, B = 1.036900100, C = 0.0, $\theta_{\text{nitch}}^{\text{GEM}}$ = 10.0°, d_{BB} = 1.9747 m

Macro processing time: CPU 250.0s | Real 305.8s