

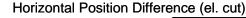
0.2

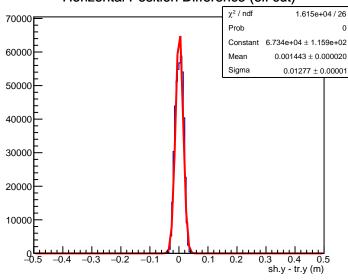
0.4

sh.x - tr.x (m)

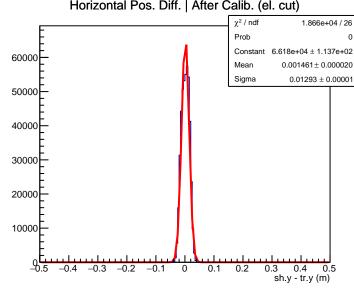
10000

2.352e+04 / 24

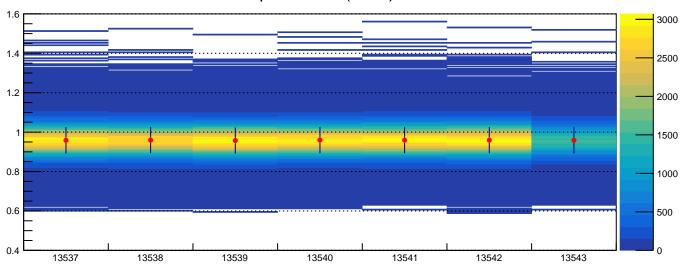




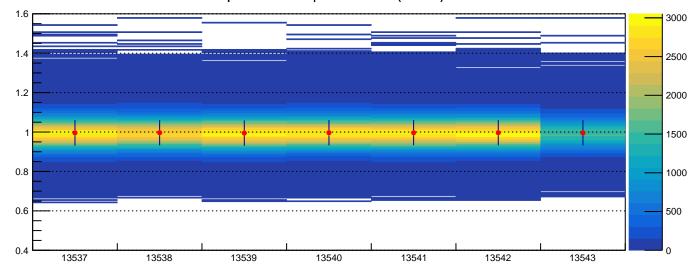
Horizontal Pos. Diff. | After Calib. (el. cut)



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



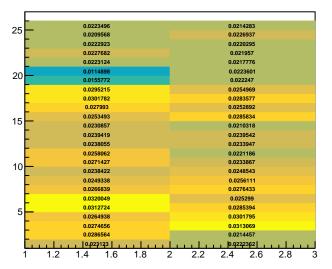
E/p vs Run no. | After Calib. (el. cut)



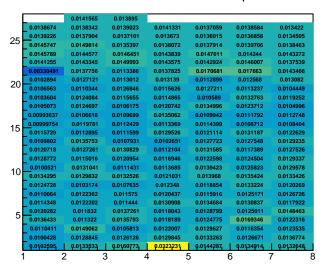
Old ADC Gain Coefficients | SH

			0.0141565		0.013895									_
25	0.0138674		0.0138342		0.0139023		0.0141331		0.0137059		0.0138584		0.013422	
	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		0.00602614		0.00519715		0.00669698		0.00838063		0.00780571		0.0143466	
	0.00903938		0.0111935		0.0103445		0.0102965		0.0103121		0.0113803		0.00967868	
	0.0102596		0.0107312		0.0119794		0.0111616		0.0122272		0.0109147		0.0109991	
	0.00989755		0.0120083		0.0110229		0.0109067		0.0102131		0.012722		0.0111935	
	0.0104164		0.0119973		0.010325		0.0117897		0.0130409		0.0119186		0.0107521	
15	0.009816		0.0102466		0.0105932		0.0129057		0.0104978		0.0107439		0.0109861	
	0.00978232		0.0118202		0.0107964		0.010994		0.0110028		0.0103664		0.0109646	
	0.0112656		0.0111009		0.0108532		0.0124425		0.0116262		0.0126378		0.0117583	
	0.0109098		0.0130726		0.010383		0.00992825		0.0123138		0.0121431		0.0127274	
	0.0114437		0.0123139		0.0126921		0.0108335		0.0125745		0.0111846		0.0119762	
10	0.0122797		0.0111479		0.0116447		0.0112445		0.0118051		0.0119212		0.0127101	
	0.00992111		0.0126679		0.0109418		0.0109255		0.0134683		0.0119056		0.0126271	
	0.0131546		0.0124402		0.0129245		0.0114016		0.0132485		0.0127048		0.0128446	
	0.011973		0.00994809		0.0102565		0.0118221		0.0112183		0.012625		0.0119628	
5	0.0106943		0.0118202		0.011225		0.0113927		0.0109014		0.0118633		0.0122828	
	0.0111536		0.0116778		0.0109804		0.0124384		0.0127445		0.0123475		0.0117893	
	0.0120536		0.0114071		0.0132719		0.0111218		0.012162		0.0119876		0.0126469	
	0.0117172		0.0111903		0.0126702		0.0116737		0.01287		0.0118426		0.0122316	
	0.0110411		0.0120968		0.0105697		0.0116633		0.0117254		0.0116354		0.0123535	
	0.0100428		0.0128845		0.0126126		0.0129845		0.0133263		0.0126671		0.0136774	
	0.0102595	1	0.0133533	1	9.0160773	Ī	0.0323231	ī	0.0144287	1	0.0134914	1	0.0132648	
	1	2		3		4		5		6		7		۰

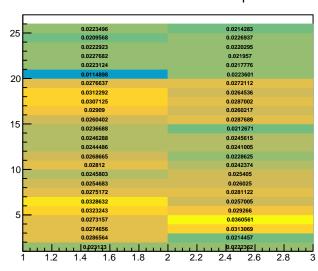
Old ADC Gain Coefficients | PS

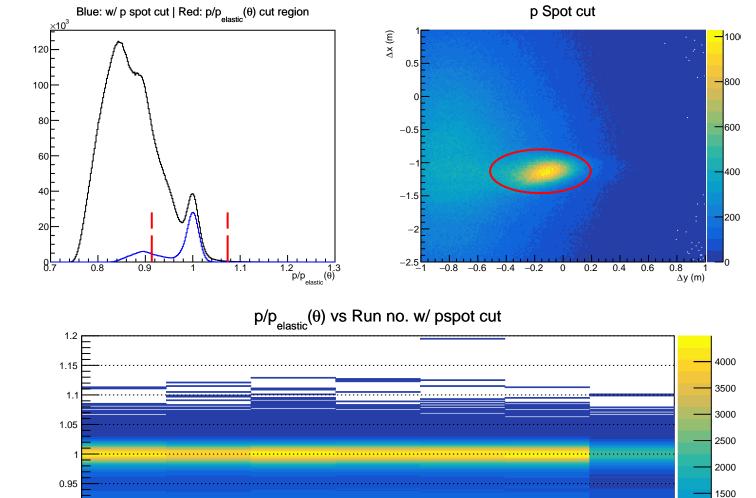


New ADC Gain Coefficients | SH



New ADC Gain Coefficients | PS

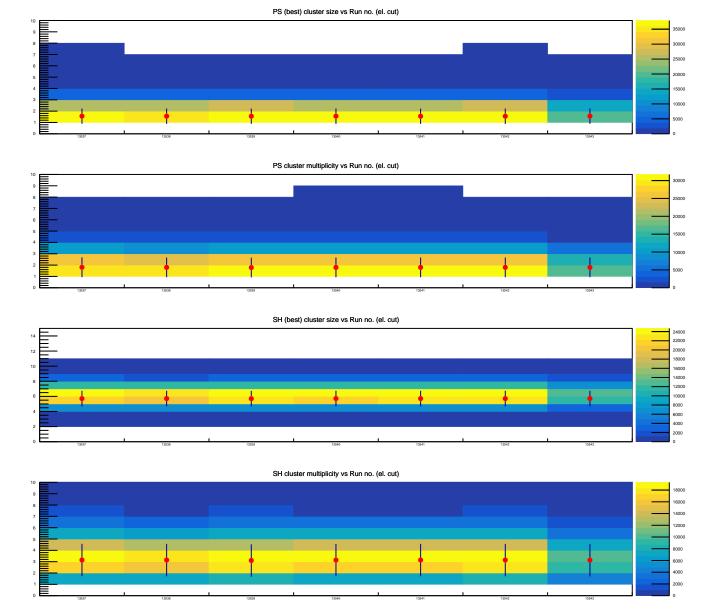




0.9

0.85

0.8



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Date of creation: 8/18/2023
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Configfile: BBCal_replay/macros/Combined_macros/cfg/sbs8-sbs100p.cfg

Total # events analyzed: 23243707, Preparing for replay pass: 2

E/p (before calib.) |
$$\mu$$
 = 0.96, σ = (5.443 \pm 0.011) p
E/p (after calib.) | μ = 0.99, σ = (5.553 \pm 0.013) p

Global cuts:

PS cluster energy > 0.2 GeV

Elastic cuts:

$$|p/p_{el}(\theta) - 0.994| \le 5.0*0.016$$

proton spot cut ranges:
$$\Delta x$$
 (m): Mean = -1.1300, 2.0 σ = 0.1650

$$\Delta x$$
 (m): Mean = -1.1300, 2.0 σ = 0.1650 Δy (m): Mean = -0.1600, 2.0 σ = 0.1770

events passed global & elastic cuts: 540232

Other cuts: Minimum # events per block: 900, (Cluster) hit threshold: 0.02 GeV

Various offsets:

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

Momentum calibration factors: A = 0.294057360, B = 1.033995100, C = 0.0, θ_{pitch}^{GEM} = 10.0°, d_{BB} = 1.9747 m

Macro processing time: CPU 1568.3s | Real 1898.8s