

-0.1

0.1

0.2

0.4

sh.y - tr.y (m)

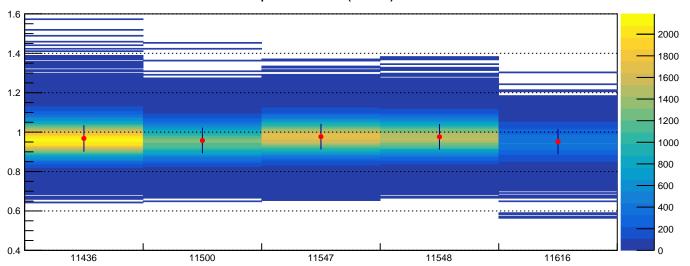
-0.1

0.2

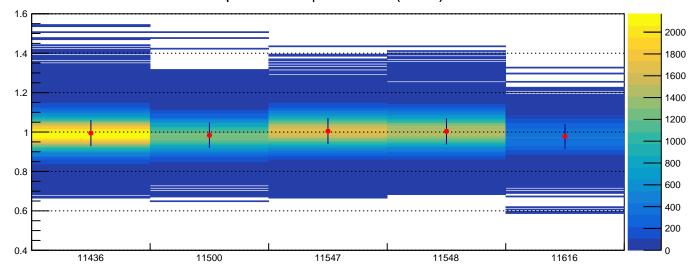
0.4

sh.x - tr.x (m)

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



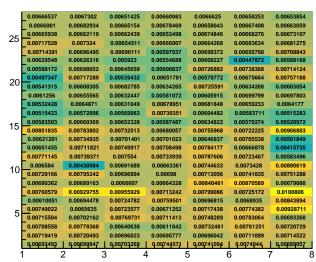
E/p vs Run no. | After Calib. (el. cut)



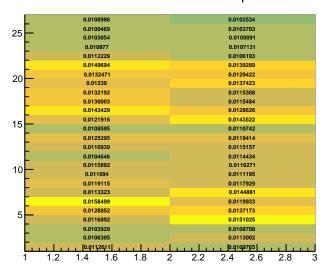
Old ADC Gain Coefficients | SH

- 1	0.00666537	0.0067302	0.00651425		0.00660983		0.0066625	T	0.00658253		0.00653854
ŀ	0.0066001	0.00682934	0.00665154		0.00678469		0.00658043		0.00667408		0.00663059
25	0.00665938	0.00662119	0.00662439		0.00673498		0.00674846		0.00668276		0.00673107
	0.00717528	0.007324	0.00654511		0.00666007		0.00664268		0.00683634		0.00681275
	0.00714391	0.00696495	0.00690111		0.00597937		0.00699372		0.00695798		0.00709843
20	0.00629548	0.00626316	0.005923		0.00554688		0.00584404		0.00641501		0.00588168
	0.00603496	0.00655217	0.00631349		0.00578756		0.00700746		0.00703931		0.00693596
	0.00524176	0.00710063	0.00566434		0.00648357		0.00587061		0.00666416		0.00747952
	0.00589256	0.00621992	0.00672478		0.00638297		0.00721462		0.006405		0.0059449
	0.00630718	0.00658679	0.00627752		0.00578803		0.00624352		0.00706831		0.00700753
	0.0053697	0.00639261	0.00638012		0.00663607		0.00670269		0.00655977		0.00643922
	0.0054476	0.00580315	0.0059169		0.00715761		0.0059974		0.00589619		0.00493067
	0.0060687	0.00650886	0.00648543		0.00593831		0.00637614		0.00589305		0.00543972
15	0.00822763	0.00759682	0.00716104		0.00655634		0.00739343		0.0071176		0.00842275
	0.00631978	0.00716754	0.00691039		0.00690004		0.00639339		0.00678702		0.00515896
- 1	0.00662427	0.00700625	0.00732133		0.00700446		0.00759464		0.00652885		0.00443411
- 1	0.00768412	0.00725188	0.00751766		0.00721079		0.00764173		0.00708798		0.00581562
امد	0.00638815	0.00487581	0.00688366		0.00660719		0.00717656		0.00720885		0.00861694
10	0.00722666	0.00761178	0.00687498		0.00673428		0.00688479		0.00702314		0.00708551
	0.00672266	0.00689102	0.00658934		0.00647706		0.00840375		0.00865292		0.00707967
- 1	0.00790497	0.00926122	0.00953746		0.00688268		0.00789565		0.00688189		0.0101449
- 1	0.0060771	0.00686525	0.00723254		0.00755544		0.00692521		0.00690188		0.00796325
5	0.00751342	0.00671079	0.00733078		0.00682918		0.0073085		0.0078373		0.00958505
ગ	0.00817842	0.00694066	0.00780331		0.00719459		0.00763148		0.00818548		0.00693268
- 1	0.00708558	0.00778368	0.00742078		0.00900141		0.00732461		0.00761251		0.00720729
ı	0.00719419	0.00720493	0.00696023		0.00695777		0.00696042		0.00711099		0.00714522
ı	0.00693493	0.00699947	0,00703269	1	q.0q74457 ₁ 1	1	0.00741094	1	9.0974944	1	0,00689057
1)	3	4		5		6		7	

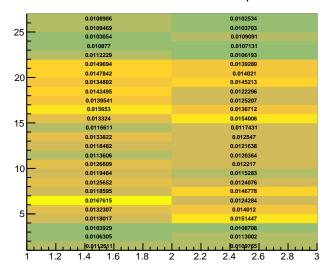
New ADC Gain Coefficients | SH

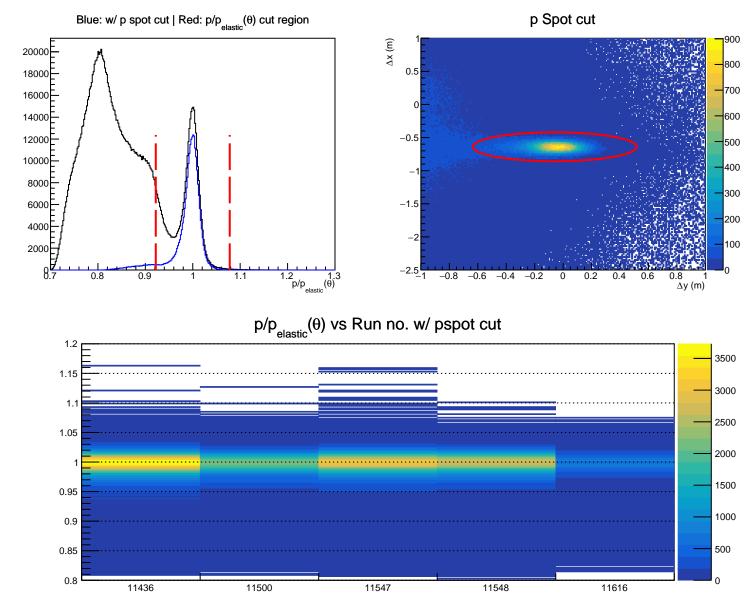


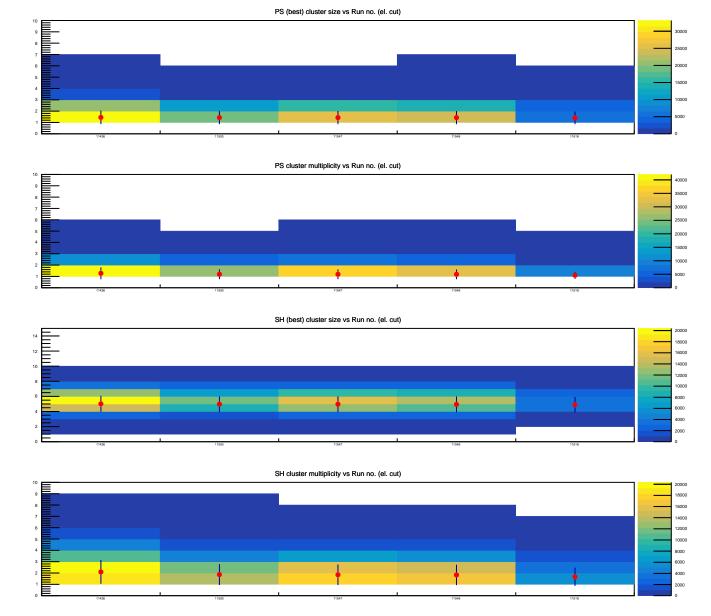
Old ADC Gain Coefficients | PS



New ADC Gain Coefficients | PS







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

Configfile: BBCal_replay/macros/Combined_macros/cfg/sbs4-sbs30p.cfg

Total # events analyzed: 5862752, Preparing for replay pass: 2

E/p (before calib.) |
$$\mu$$
 = 0.97, σ = (6.073 \pm 0.022) p
E/p (after calib.) | μ = 0.99, σ = (6.085 \pm 0.022) 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]-0.02)<0.33, PS cluster energy > 0.2 GeV

p_recon > 1.6 GeV/c

events passed global cuts: 1624550

Elastic cuts:

 $|p/p_{ol}(\theta) - 1.000| \le 6.0*0.013$ proton spot cut ranges:

 Δx (m): Mean = -0.6390, 3.0 σ = 0.0730

 Δy (m): Mean = -0.0590, 4.0 σ = 0.1440

events passed global & elastic cuts: 224706 Other cuts:

Minimum # events per block: 400, (Cluster) hit threshold: 0.02 GeV

Various offsets:

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

Momentum calibration factors: A = 0.272702433, B = 1.012984580, C = 0.0, $\theta_{\text{nitch}}^{\text{GEM}}$ = 10.0°, d_{BB} = 1.7988 m Macro processing time: CPU 412.6s | Real 506.5s