

0.1

0.2

0.4

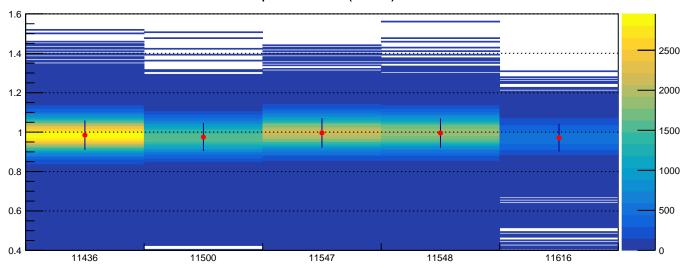
sh.y - tr.y (m)

0.2

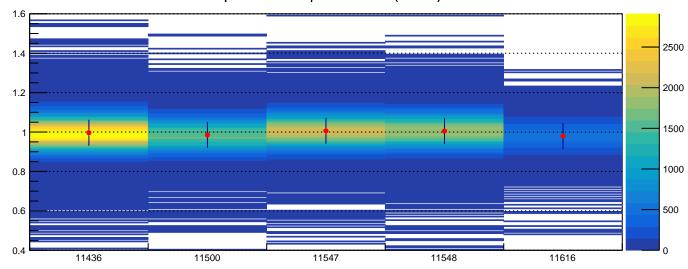
0.4

sh.x - tr.x (m)

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



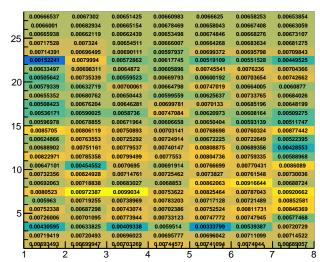
E/p vs Run no. | After Calib. (el. cut)



# Old ADC Gain Coefficients | SH

	0.00666537	0.0067302	0.00651425	0.00660983	0.0066625	0.00658253	0.00653854
25	0.0066001	0.00682934	0.00665154	0.00678469	0.00658043	0.00667408	0.00663059
	0.00665938	0.00662119	0.00662439	0.00653498	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
- 1	0.00629548	0.00626316	0.005923	0.00554688	0.00609227	0.00447872	0.00588168
. [	0.00588172	0.00698052	0.00645659	0.00600837	0.00726882	0.00738368	0.00714124
20	0.00497347	0.00717289	0.00539432	0.00651781	0.00579772	0.00675664	0.00757188
	0.00541315	0.00608305	0.00682785	0.00634265	0.00725591	0.00634268	0.00603054
	0.0061256	0.00655565	0.00632447	0.00581072	0.00605915	0.00699799	0.00697803
15	0.00532428	0.0064871	0.00631049	0.00678951	0.00681848	0.00659233	0.0064177
	0.00515423	0.00572896	0.00569983	0.00730351	0.00604482	0.00583711	0.00515283
	0.00583503	0.00660369	0.00652328	0.00587487	0.00634822	0.00570274	0.00520972
	0.00851835	0.00783802	0.00732513	0.00680057	0.00755968	0.00722225	0.00906803
	0.00621201	0.00734935	0.00701401	0.00701023	0.00646937	0.00705538	0.00501849
	0.00651455	0.00711821	0.00749917	0.00708498	0.00784177	0.00666878	0.00415735
	0.00771145	0.00739371	0.007554	0.00733939	0.00787606	0.00723467	0.00583496
10	0.006584	0.00430984	0.00691689	0.00663361	0.00744633	0.0073428	0.00890619
	0.00729166	0.00795242	0.00696994	0.00698	0.00713056	0.00741835	0.00751288
	0.00680362	0.00689163	0.0066607	0.00664328	0.00840461	0.00870589	0.00679088
	0.00760579	0.00929755	0.00955929	0.00713242	0.00799086	0.00725172	0.0100806
5	0.00610051	0.00694478	0.00724782	0.00759501	0.00696815	0.0068935	0.00843894
	0.00749022	0.0065635	0.00723577	0.00671252	0.00717438	0.00774382	0.00928711
	0.00715504	0.00702162	0.00769731	0.00711413	0.00748289	0.00783064	0.00693268
	0.00708558	0.00778368	0.00640638	0.00611842	0.00732461	0.00761251	0.00720729
	0.00719419	0.00720493	0.00696023	0.00695777	0.00696042	0.00711099	0.00714522
- [	0.00693493	q.00699947	0,00703269	9.09744571	0.00741094	9.0974944	0.00689057

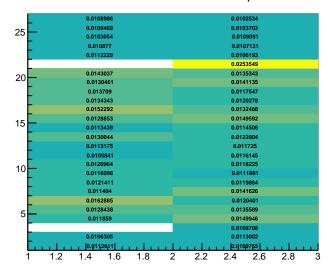
# New ADC Gain Coefficients | SH

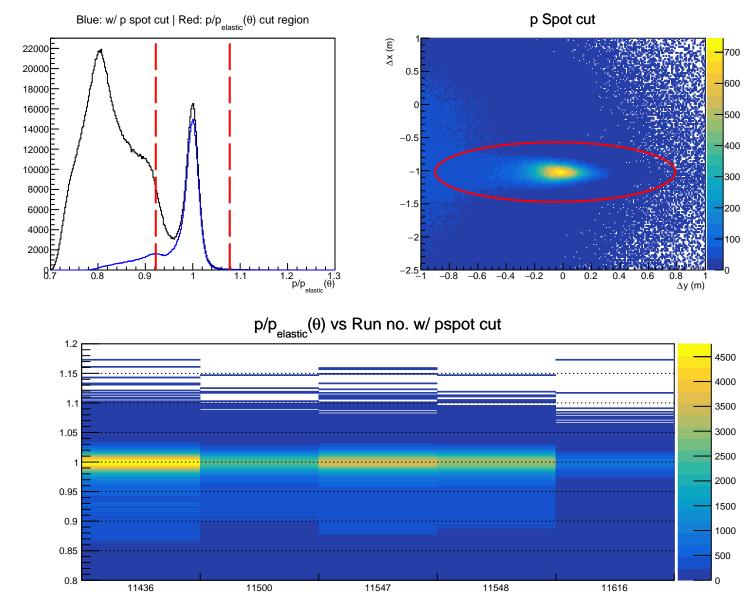


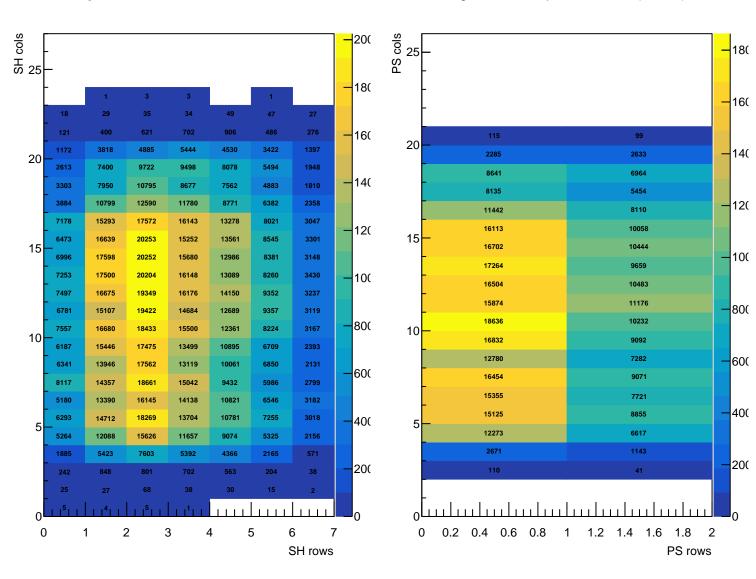
## Old ADC Gain Coefficients | PS

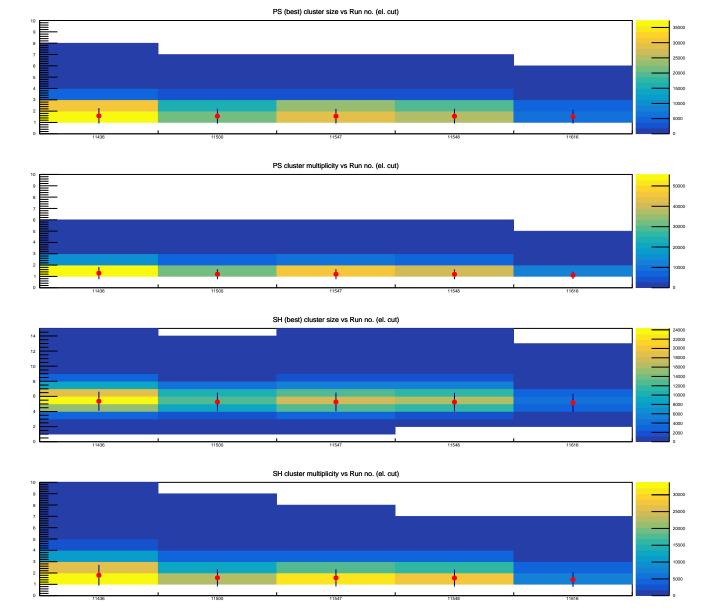


# New ADC Gain Coefficients | PS









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Date of creation: 12/12/2023
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## Configfile: BBCal\_replay/macros/Combined\_macros/cfg/sbs4-sbs30p.cfg

Total # events analyzed: 6142665, Preparing for replay pass: 2

E/p (before calib.) |  $\mu$  = 0.99,  $\sigma$  = (6.072  $\pm$  0.016) p E/p (after calib.) |  $\mu$  = 1.00,  $\sigma$  = (6.019  $\pm$  0.019) 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: 1760800

Elastic cuts:  $|p/p_{ol}(\theta) - 1.000| \le 6.0*0.013$ 

proton spot cut ranges:

 $\Delta x$  (m): Mean = -1.0200, 3.0 $\sigma$  = 0.1500

 $\Delta$ y (m): Mean = -0.0560, 4.0 $\sigma$  = 0.2110

# events passed global & elastic cuts: 289081

### Other cuts:

Minimum # events per block: 80 | 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)

#### Various offsets:

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

Macro processing time: CPU 535.6s | Real 1416.5s