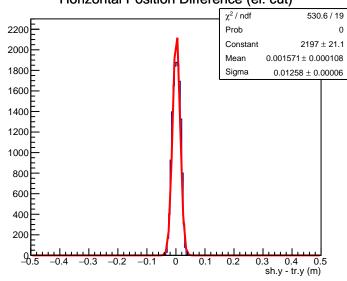
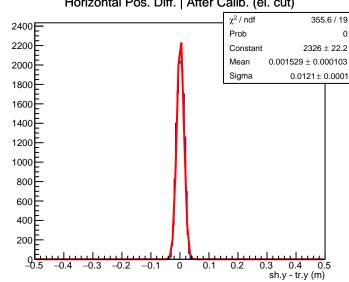


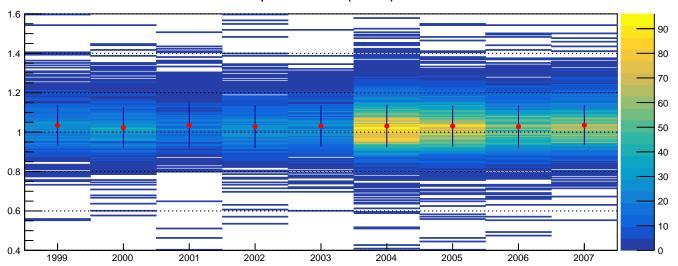
Horizontal Position Difference (el. cut)



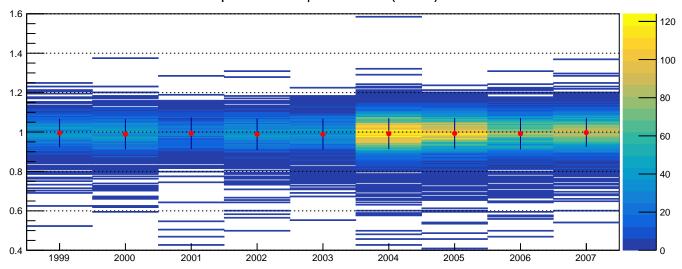
Horizontal Pos. Diff. | After Calib. (el. cut)



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



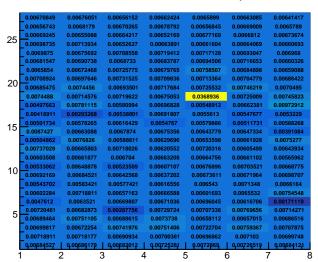
E/p vs Run no. | After Calib. (el. cut)



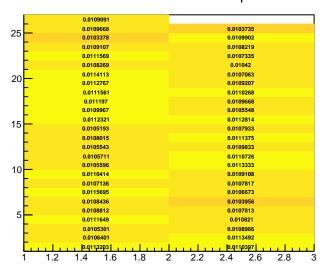
Old ADC Gain Coefficients | SH

- 1	0.00670849	0.00676051	0.00656152	0.00662424	0.0065899	0.00663085	0.00641417
25	0.00656743	0.00676031	0.00670265	0.00678792	0.00656845	0.00669009	0.0065789
	0.00669245	0.00655088	0.00664217	0.00652169	0.00677169	0.0066812	0.00673674
	0.00698735	0.00713934	0.00652627	0.00663891	0.00661604	0.00664069	0.00660693
	0.0069875	0.00675692	0.00708558	0.00719412	0.00717128	0.00693047	0.006968
20	0.00681547	0.00690738	0.0068733	0.00683787	0.00694506	0.00716653	0.00660326
	0.0065854	0.00672468	0.00725775	0.00679765	0.00758507	0.00684898	0.00659088
	0.00708924	0.00697646	0.00731525	0.00709836	0.00713364	0.00704779	0.00686422
	0.00685475	0.0074456	0.00693501	0.00717684	0.00725532	0.00746219	0.0070495
	0.0074488	0.00714576	0.00719622	0.00675053	0.00744103	0.00745216	0.00745823
	0.00680222	0.00715546	0.00769444	0.00773839	0.00694002	0.00723003	0.00688665
	0.00724377	0.00703153	0.00705236	0.00740044	0.00701523	0.00716112	0.00675572
ŀ	0.00725869	0.00702031	0.00698314	0.00714152	0.00723568	0.0073379	0.00717303
15	0.00700191	0.00688252	0.00712747	0.00714132	0.00703029	0.00756503	0.00669898
	0.00713803	0.0074558	0.00718762	0.00705100	0.00698858	0.00699156	0.00670962
	0.00692677	0.00737652	0.00705926	0.00733492	0.007521	0.00729953	0.00725328
ı	0.00736287	0.00725474	0.00728574	0.00726726	0.007167	0.00717597	0.00682807
	0.00731547	0.00691225	0.00712021	0.00700122	0.00696299	0.00685761	0.00677877
10	0.00689907	0.00724944	0.00686745	0.00728693	0.00737935	0.00688353	0.00710268
	0.00696267	0.00758169	0.00764649	0.00720033	0.00758982	0.0077527	0.00710200
	0.00769074	0.00770435	0.00744517	0.00707353	0.00730302	0.00747297	0.00707740
ŀ	0.00701683	0.007706826	0.00689192	0.00707353	0.00716065	0.00694379	0.00692687
5	0.00720461	0.00716253	0.00657967	0.00715031	0.00710003	0.00681449	0.00714271
	0.00689464	0.00751105	0.00688615	0.0073738	0.00658112	0.00657015	0.00686516
	0.00699817	0.00672254	0.00741976	0.00751406	0.00722704	0.00759367	0.00707875
ŀ	0.00718911	0.00718177	0.00690934	0.00700361	0.00696862	0.007103	0.00699748
ı	0.00684527	0.00710177	0.00030334	0.00700301	0.00030002	0.007103	Q.00684121
		2 :			5	1 -1	7

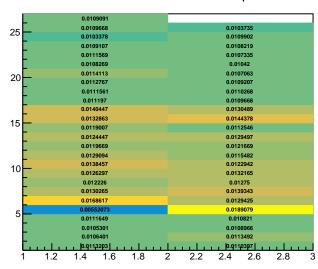
New ADC Gain Coefficients | SH

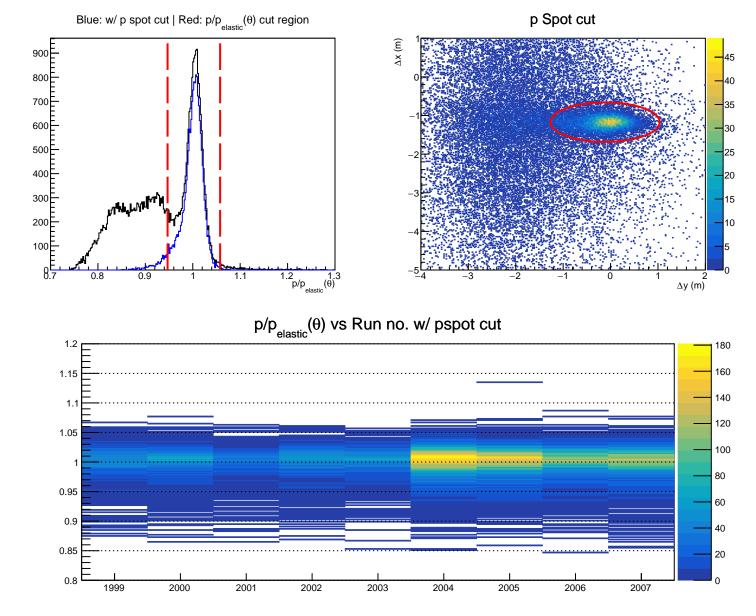


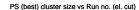
Old ADC Gain Coefficients | PS

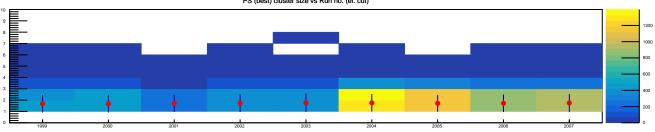


New ADC Gain Coefficients | PS

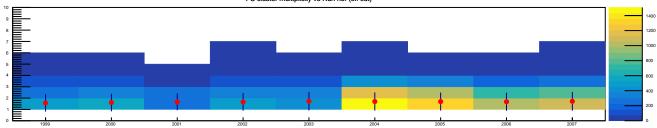




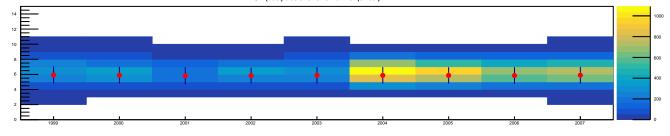




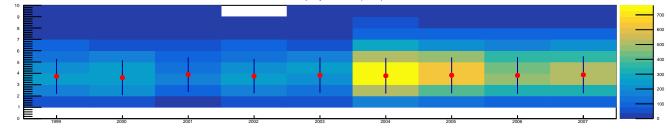
PS cluster multiplicity vs Run no. (el. cut)



SH (best) cluster size vs Run no. (el. cut)



SH cluster multiplicity vs Run no. (el. cut)



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Date of creation: 9/8/2023
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Configfile: BBCal_replay/macros/Combined_macros/cfg/GEN2_SBS_p30.cfg

Total # events analyzed: 3179892, Preparing for replay pass: 0

E/p (before calib.) |
$$\mu$$
 = 1.02, σ = (8.267 \pm 0.086) p
E/p (after calib.) | μ = 1.00, σ = (6.161 \pm 0.064) p

5.) $\mu = 1.00, 0 = (6.161 \pm 0.004) p$

Global cuts:

bb.tr.n==1, abs(bb.tr.vz[0])<0.27, bb.gem.track.nhits>3,

PS cluster energy > 0.2 GeV p recon > 2.2 GeV/c

events passed global cuts: 40718

Elastic cuts:

 $|p/p_{al}(\theta) - 1.002| \le 3.0*0.018$

proton spot cut ranges:

 Δx (m): Mean = -1.1714, 3.0 σ = 0.1702

 Δ y (m): Mean = -0.1157, 3.0 σ = 0.3841

events passed global & elastic cuts: 16132

Other cuts:

Minimum # events per block: 20, (Cluster) hit threshold: 0.02 GeV

Various offsets:

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

Mom. calib. params: A = 0.263077985, B = 0.999237626, C = 0.0, Avy = -0.014763, Bvy = -15.893095, θ_{pitch}^{GEM} = 10.0°, d_{BB} = 1.6300 m

Macro processing time: CPU 223.2s | Real 269.2s