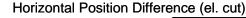
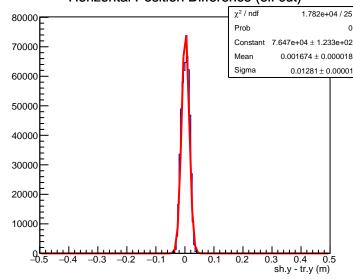


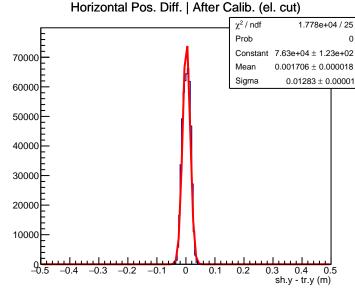
0.2

0.4

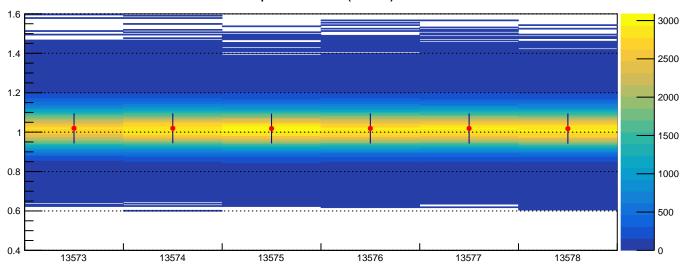
sh.x - tr.x (m)



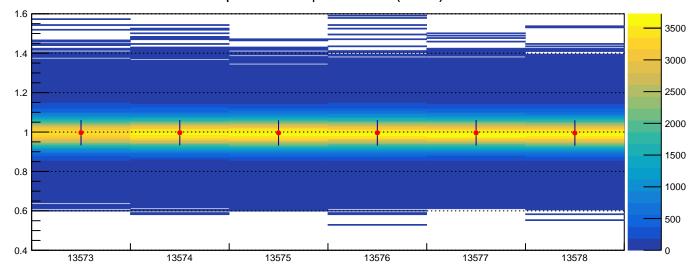




E/p vs Run no. (el. cut)



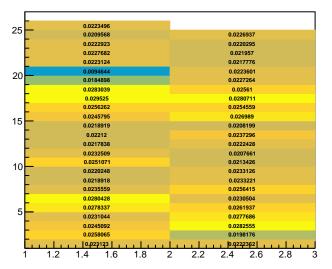
E/p vs Run no. | After Calib. (el. cut)



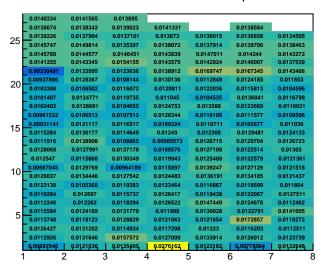
## Old ADC Gain Coefficients | SH

	0.0140334	0.0141565	0.013895				
	0.0138674	0.0138342	0.0139023	0.0141331		0.0138584	
25	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	0.0154155	0.0143575	0.0142924	0.0146007	0.0137539
	0.00330491	0.00624463	0.00487926	0.00698126	0.00838063	0.00780571	0.0143466
20	0.0109785	0.0123398	0.0115057	0.0120379	0.0113408	0.0124776	0.00968864
	0.01143	0.0113848	0.0121897	0.0120205	0.0125123	0.0117085	0.0111273
	0.0108273	0.0127291	0.0114741	0.0111263	0.0101958	0.0136365	0.0128332
	0.0109661	0.0130602	0.0106907	0.0125874	0.0136704	0.012273	0.0115158
15	0.0102266	0.0105148	0.0109705	0.0127349	0.0108023	0.0109852	0.0116149
	0.00959691	0.0122534	0.0115488	0.0108943	0.0109962	0.010138	0.0115328
	0.01241	0.0136827	0.0116418	0.0127482	0.0120971	0.0129953	0.0129987
	0.0118537	0.0139131	0.0110223	0.0101741	0.0126672	0.0124871	0.0135928
	0.0127877	0.0129092	0.0136097	0.0110892	0.0126005	0.0117657	0.0127897
10	0.0130258	0.0116147	0.0125878	0.0118586	0.0122923	0.0120456	0.012494
	0.0105833	0.0129574	0.0103795	0.0115769	0.0141954	0.0121451	0.0122237
	0.0137284	0.0134599	0.0132813	0.0119161	0.0132018	0.0130597	0.0121119
	0.0124555	0.010522	0.0109755	0.0119942	0.011689	0.0122173	0.0112944
5	0.011525	0.012749	0.0120883	0.012151	0.0113024	0.012102	0.0117107
	0.0117233	0.0118608	0.0115435	0.0123749	0.0133628	0.0121621	0.0112954
	0.0122758	0.0117088	0.0130291	0.0112717	0.0121557	0.0122055	0.0120624
	0.0122076	0.0116001	0.0128392	0.0118684	0.0122604	0.0116131	0.0118272
	0.0114827	0.0126553	0.0113256	0.0118859	0.0117918	0.0116203	0.0112511
	0.0112926	0.0126835	0.013282	0.0127009	0.0133914	0.0126012	0.0123739
	0.00897946	0.0121536	9.0135405	0.0276162	0.0122182	0,00778994	0.0132648
	1	2	3	4	5	6	7

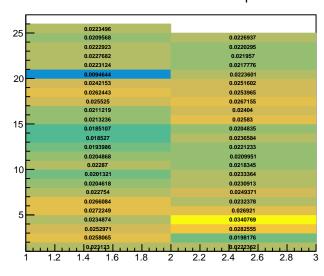
# Old ADC Gain Coefficients | PS

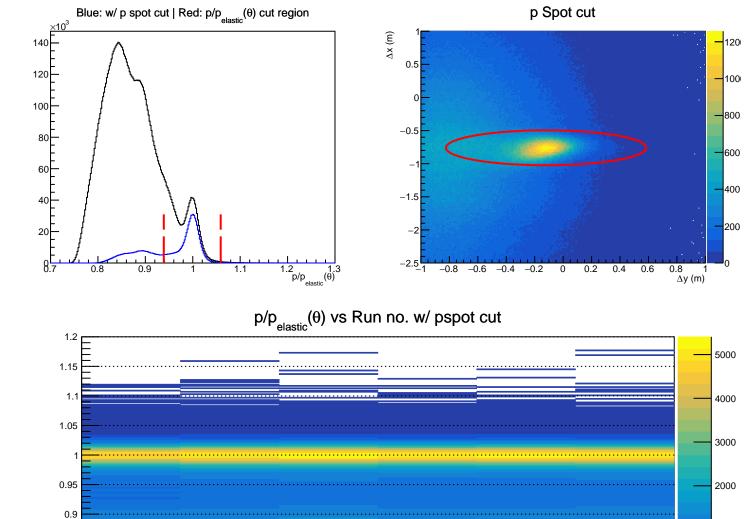


### New ADC Gain Coefficients | SH



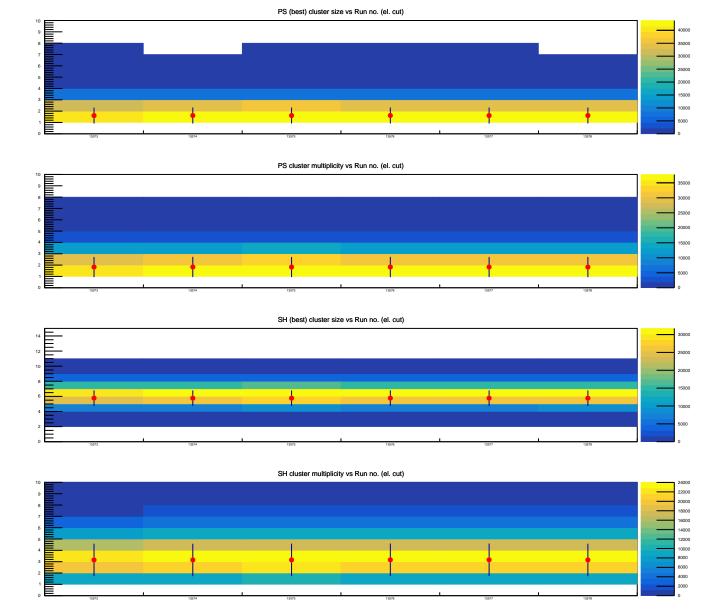
## New ADC Gain Coefficients | PS





0.85

0.8



```
Date of creation: 8/16/2023
```

# Configfile: BBCal\_replay/macros/Combined\_macros/cfg/sbs8-sbs70p-set2.cfg

Total # events analyzed: 24378727, Preparing for replay pass: 2 E/p (before calib.) |  $\mu$  = 1.02,  $\sigma$  = (6.940  $\pm$  0.016) p

E/p (after calib.) |  $\mu$  = 0.99,  $\sigma$  = (5.494  $\pm$  0.010) 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: 9985203

# Elastic cuts:

 $|p/p_{el}(\theta) - 0.999| \le 4.0*0.015$  proton spot cut ranges:

 $\Delta x$  (m): Mean = -0.7600, 2.0 $\sigma$  = 0.1320

 $\Delta y$  (m): Mean = -0.1200, 4.0 $\sigma$  = 0.1760

# events passed global & elastic cuts: 624306

#### Other cuts:

Minimum # events per block: 1000, (Cluster) hit threshold: 0.02 GeV

#### Various offsets:

Momentum fudge factor: 1.00, BBCAL cluster energy scale factor: 1.00 Momentum calibration factors: A = 0.292476240, B = 1.032896400, C = 0.0,  $\theta_{nitch}^{GEM}$  = 10.0°, d<sub>BB</sub> = 1.9747 m

Macro processing time: CPU 1688.0s | Real 2228.0s