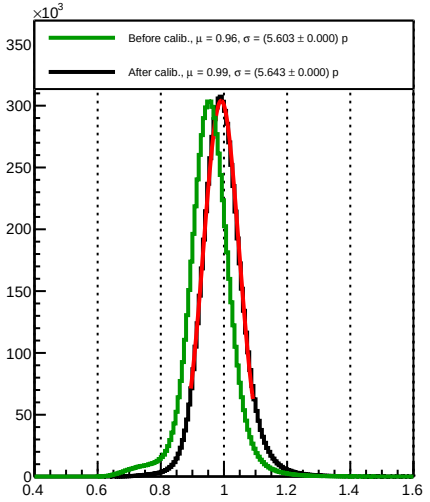
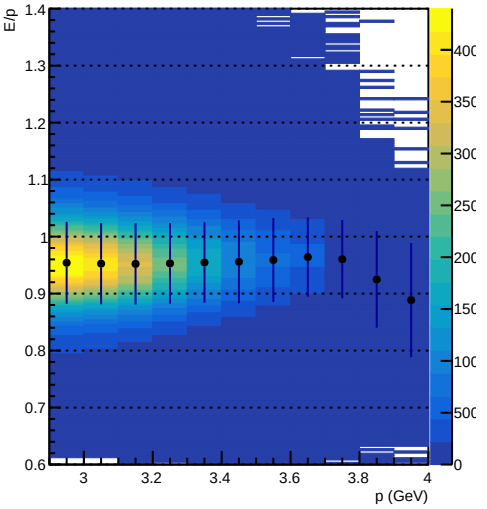
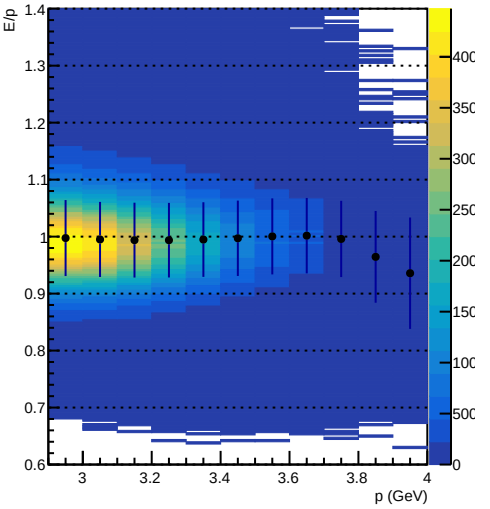
E/p



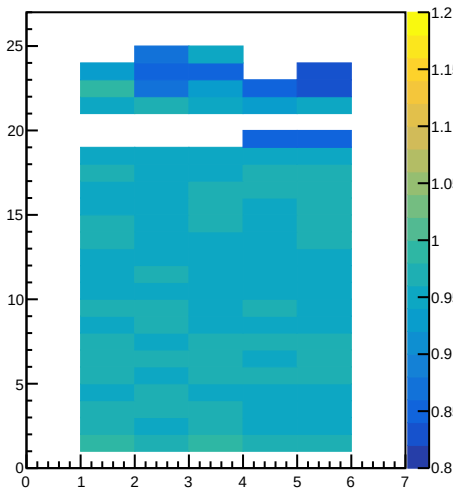
E/p vs p



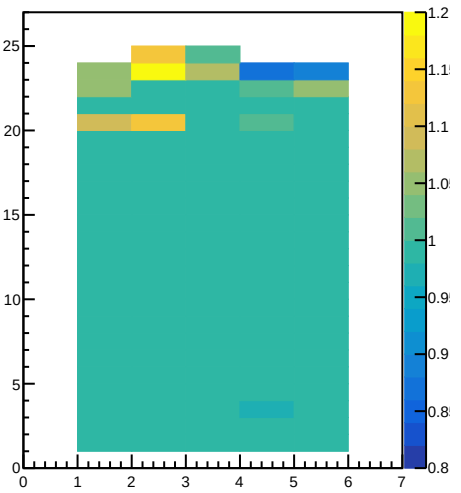
E/p vs p | After Calib.



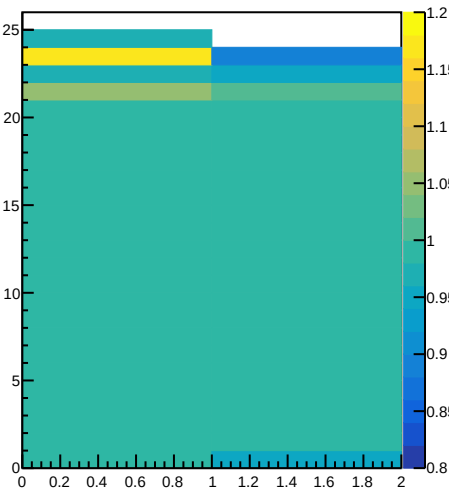
E/p per SH block



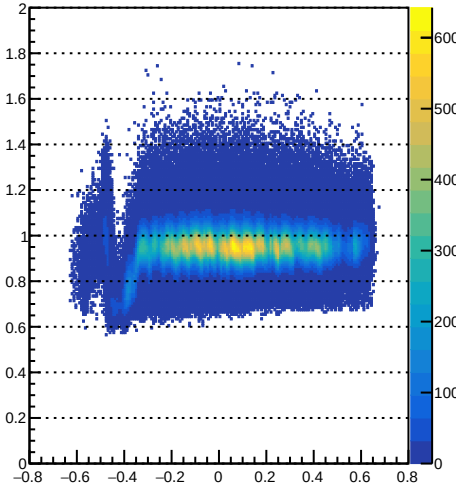
E/p per SH block | After Calib.



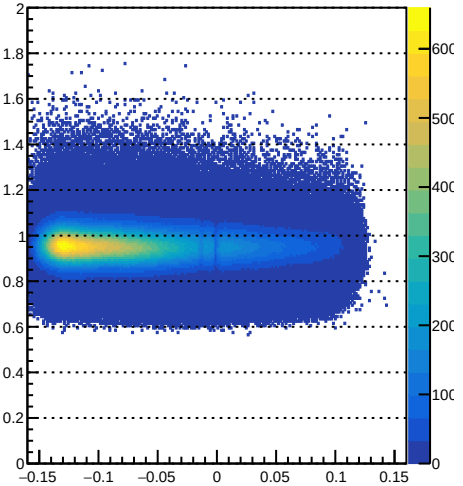
E/p per PS block | After Calib.



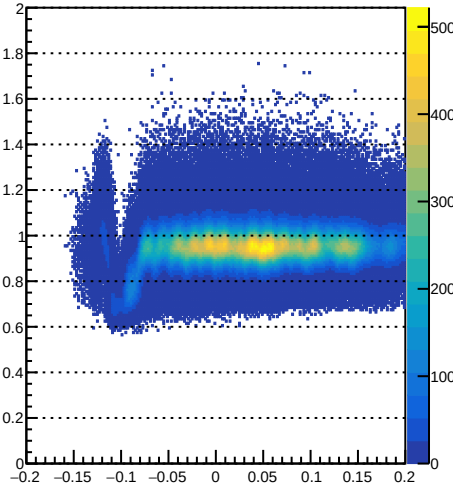
E/p vs Track x



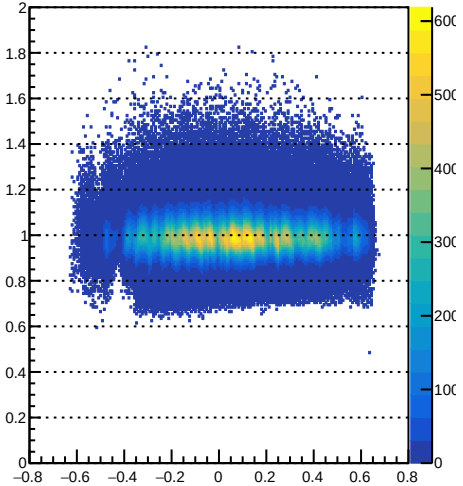
E/p vs Track y



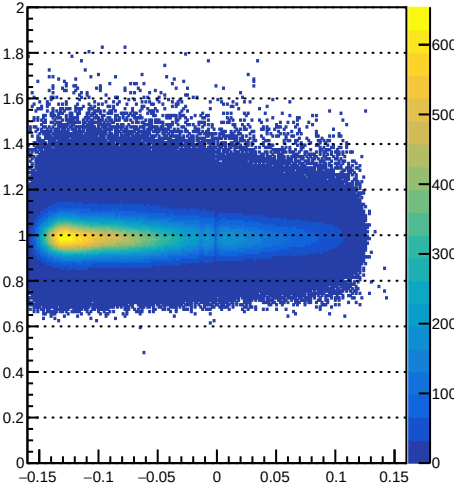
E/p vs Track theta



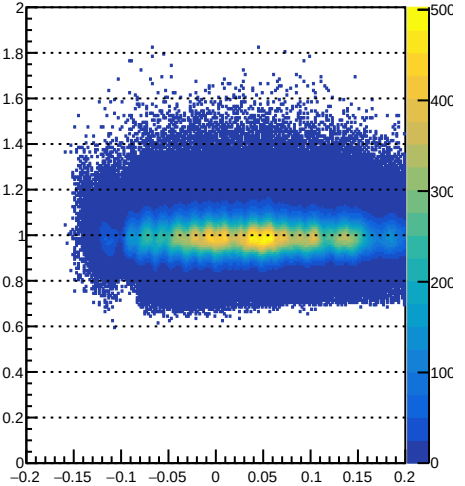
E/p vs Track x | After Calib.



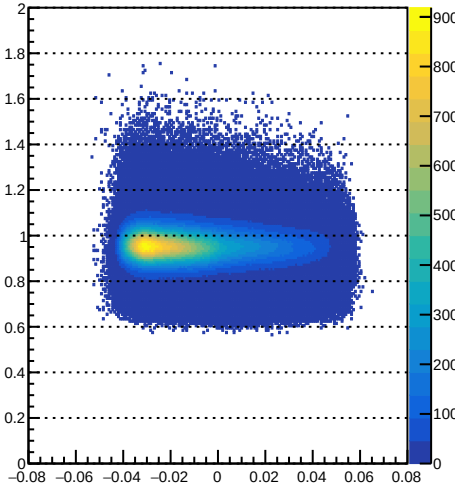
E/p vs Track y | After Calib.



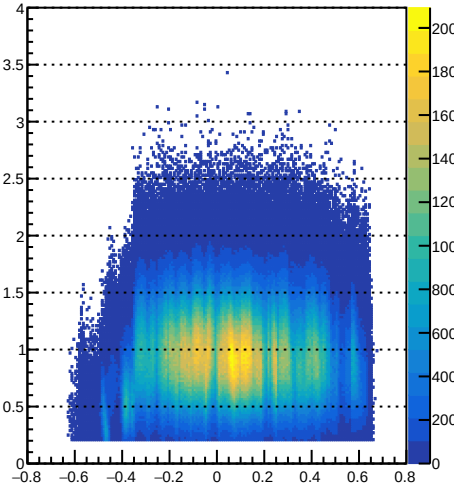
E/p vs Track theta | After Calib.



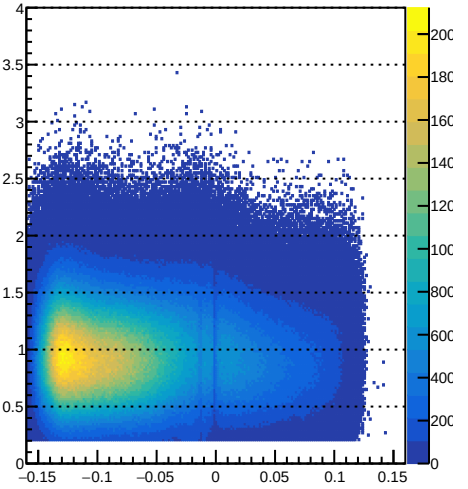
E/p vs Track phi



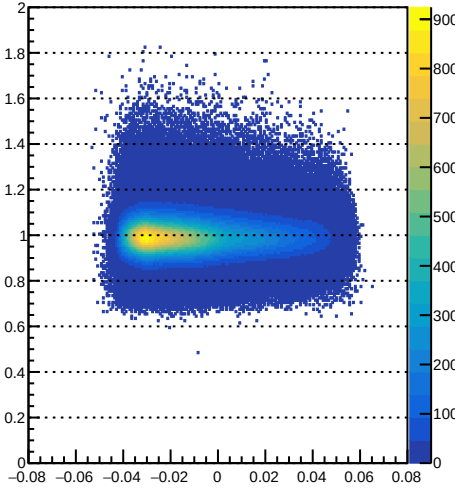
PS energy vs Track x



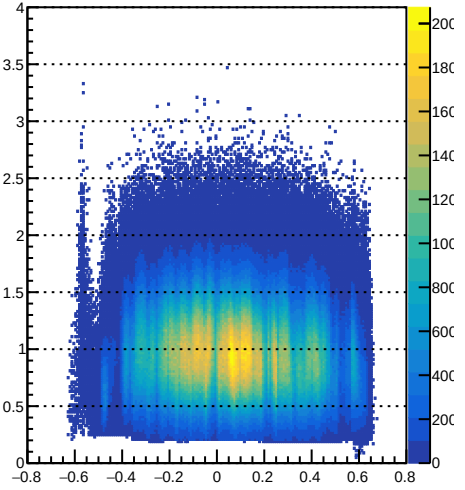
PS energy vs Track y



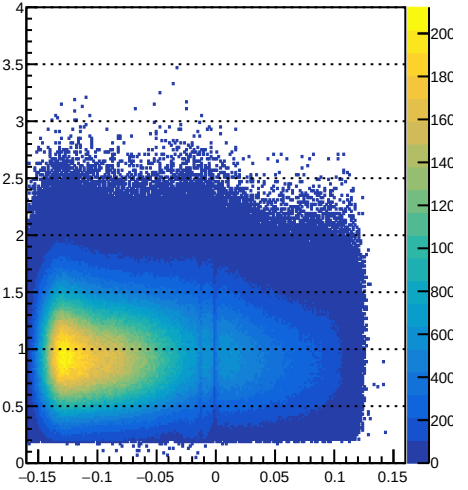
E/p vs Track phi | After Calib.

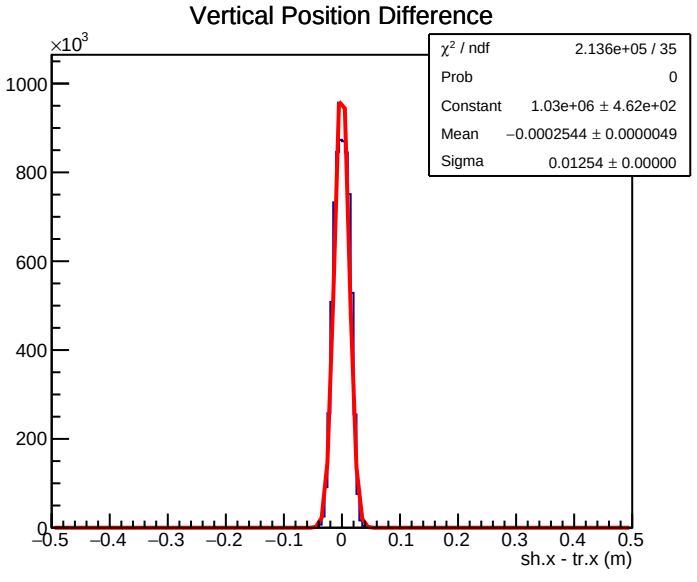


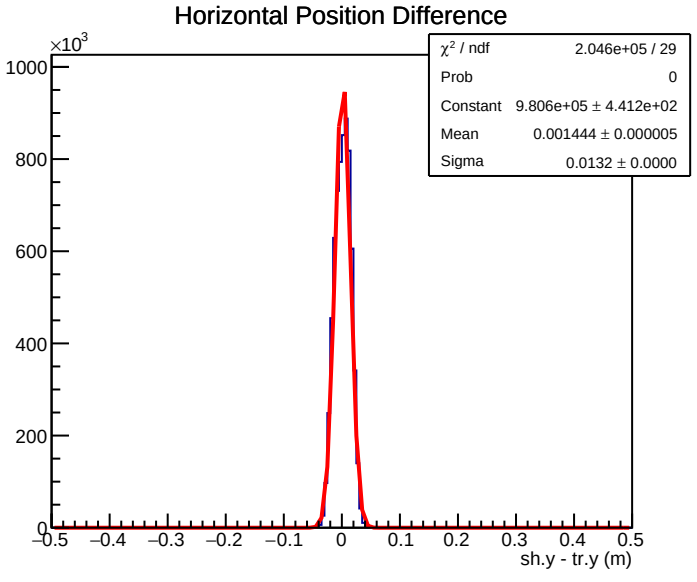
PS energy vs Track x | After Calib.

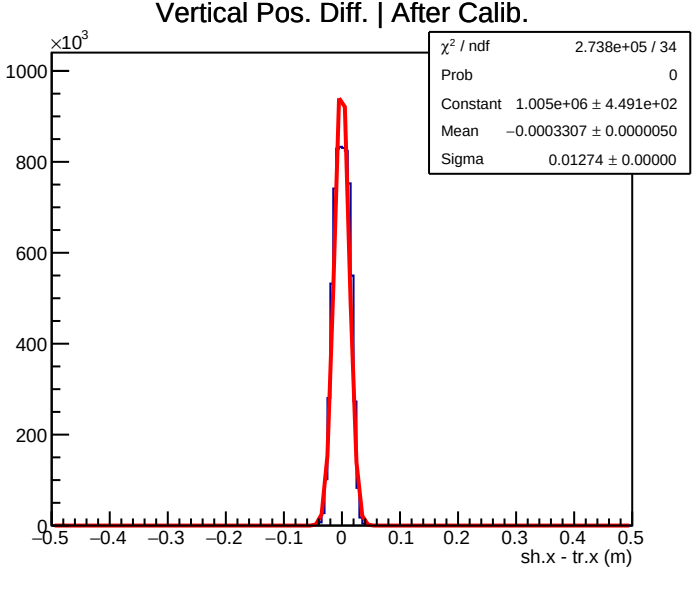


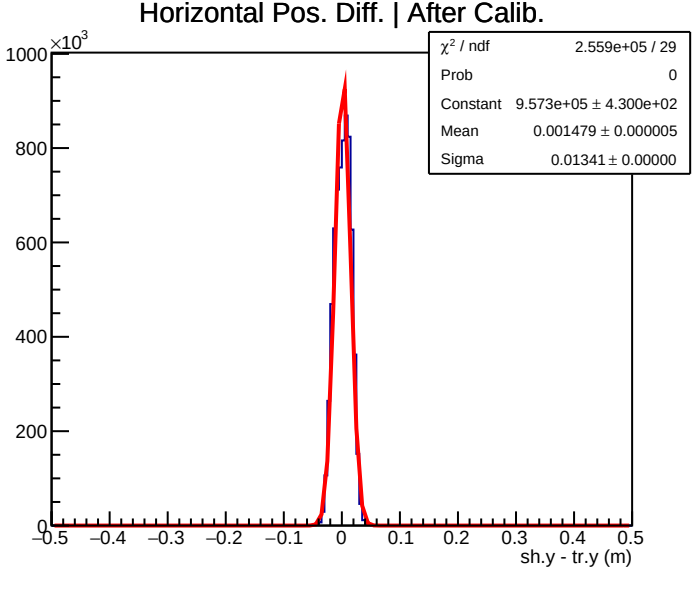
PS energy vs Track y | After Calib.



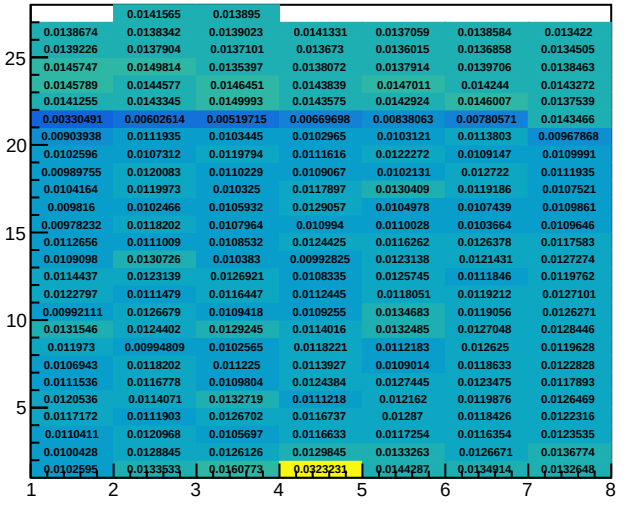

Vertical Position Difference
×10^3
1000
800
600
400
200
0
−0.5 −0.4 −0.3 −0.2 −0.1 0 0.1 0.2 0.3 0.4 0.5
sh.x - tr.x (m)
χ² / ndf 2.136e+05 / 35
Prob 0
Constant 1.03e+06 ± 4.62e+02
Mean −0.0002544 ± 0.0000049
Sigma 0.01254 ± 0.00000


Horizontal Position Difference
×10^3
1000
800
600
400
200
0
−0.5 −0.4 −0.3 −0.2 −0.1 0 0.1 0.2 0.3 0.4 0.5
sh.y - tr.y (m)
χ² / ndf 2.046e+05 / 29
Prob 0
Constant 9.806e+05 ± 4.412e+02
Mean 0.001444 ± 0.000005
Sigma 0.0132 ± 0.0000

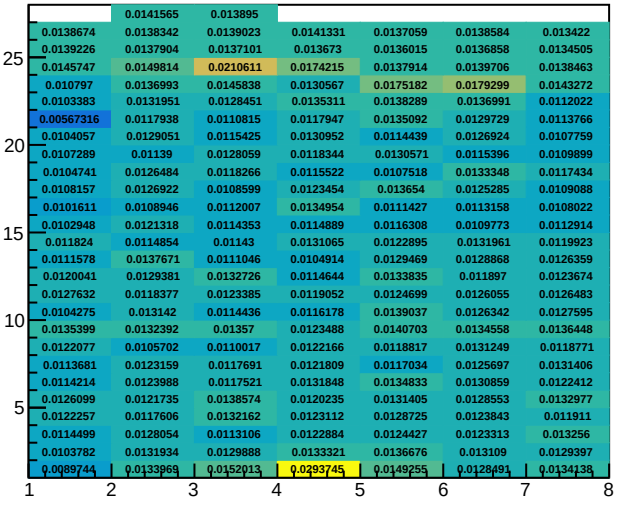

Vertical Pos. Diff. | After Calib.
×10^3
1000
800
600
400
200
0
−0.5 −0.4 −0.3 −0.2 −0.1 0 0.1 0.2 0.3 0.4 0.5
sh.x - tr.x (m)
χ² / ndf 2.738e+05 / 34
Prob 0
Constant 1.005e+06 ± 4.491e+02
Mean −0.0003307 ± 0.0000050
Sigma 0.01274 ± 0.00000


Horizontal Pos. Diff. | After Calib.
×10^3
1000
800
600
400
200
0
−0.5 −0.4 −0.3 −0.2 −0.1 0 0.1 0.2 0.3 0.4 0.5
sh.y - tr.y (m)
χ² / ndf 2.559e+05 / 29
Prob 0
Constant 9.573e+05 ± 4.300e+02
Mean 0.001479 ± 0.000005
Sigma 0.01341 ± 0.00000

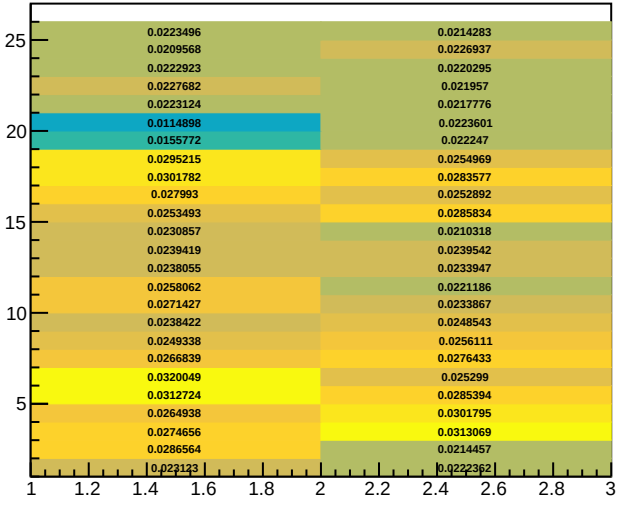
Old ADC Gain Coefficients | SH



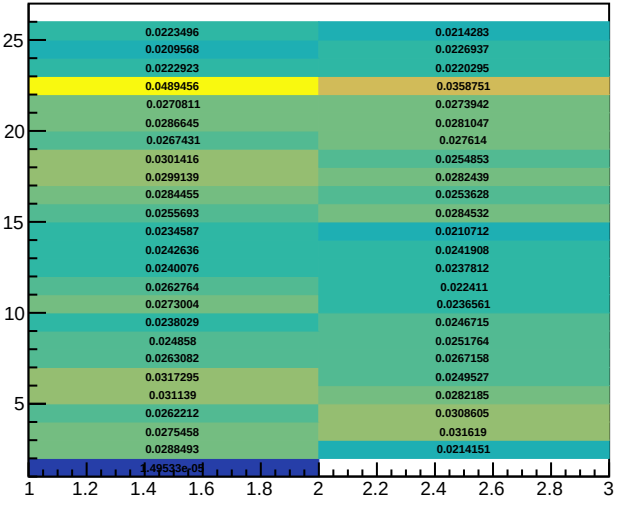
New ADC Gain Coefficients | SH



Old ADC Gain Coefficients | PS



New ADC Gain Coefficients | PS



Configfile: BBCal_replay/macros/Combined_macros/cfg/sbs8-sbs100p.cfg

Date of creation: 2/20/2023

Total no. of events analyzed: 23243707

E/p (before calib.) | μ = 0.96, σ = (5.603 $\pm$ 0.000) p

E/p (after calib.) | μ = 0.99, σ = (5.643 $\pm$ 0.000) p

Global cuts: bb.tr.n==1&&abs(bb.tr.vz[0])<0.08&&bb.gem.track.nhits>3&&bb.ps.e>0.2

p_recon > 2.9 GeV/c