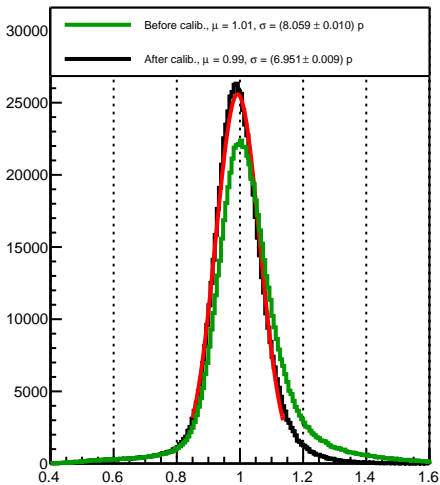
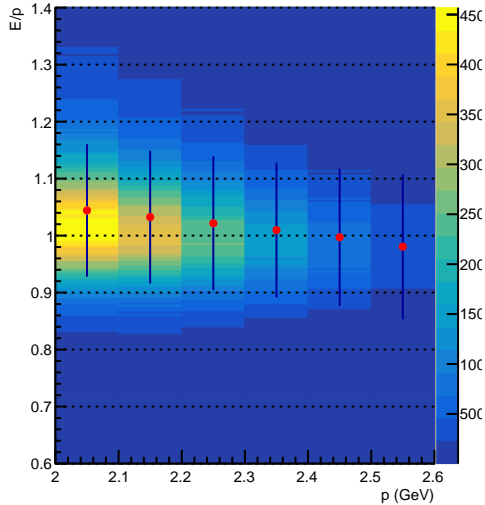


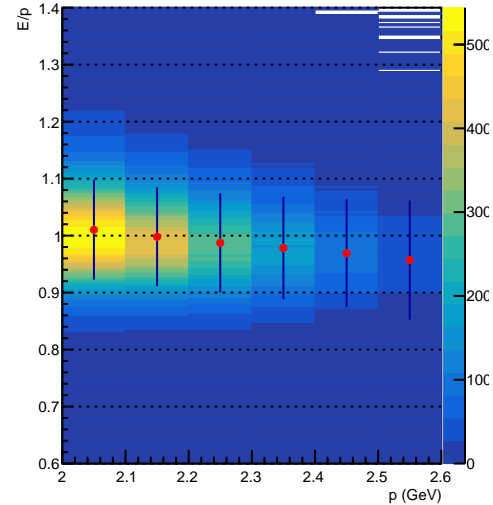
E/p



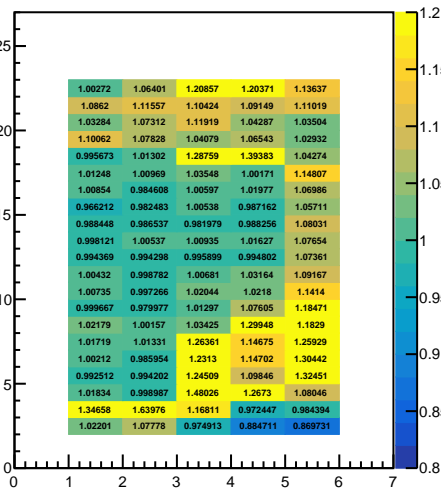
E/p vs p



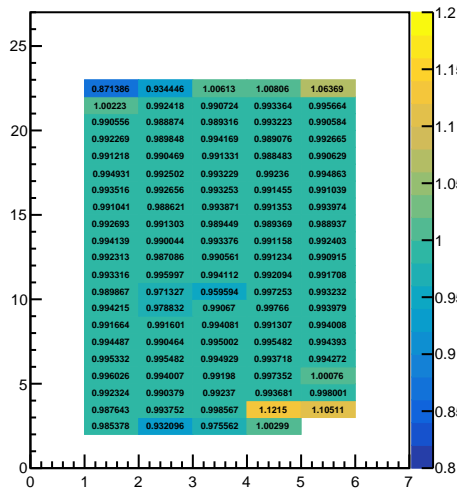
E/p vs p | After Calib.



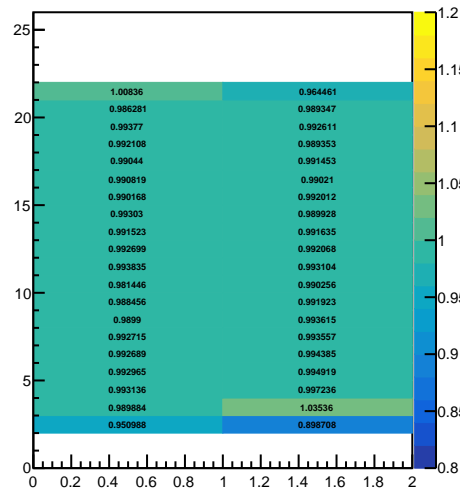
E/p per SH block



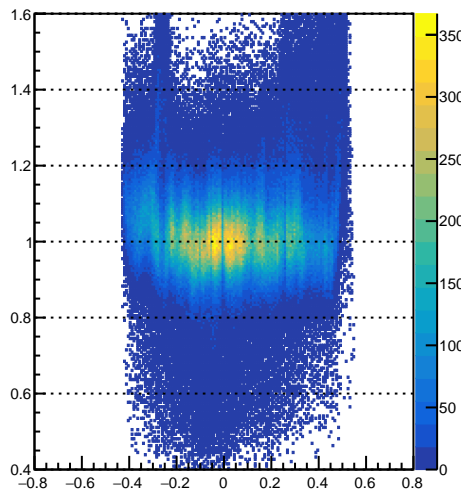
E/p per SH block | After Calib.



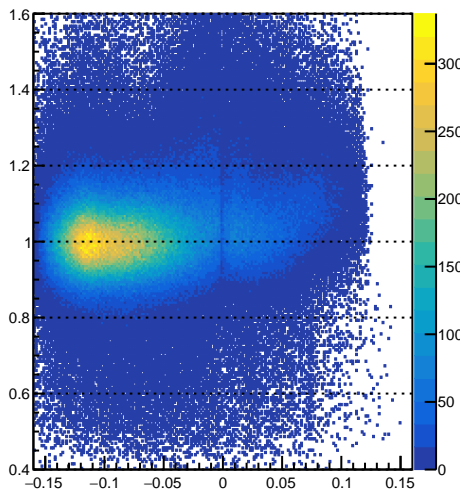
E/p per PS block | After Calib.



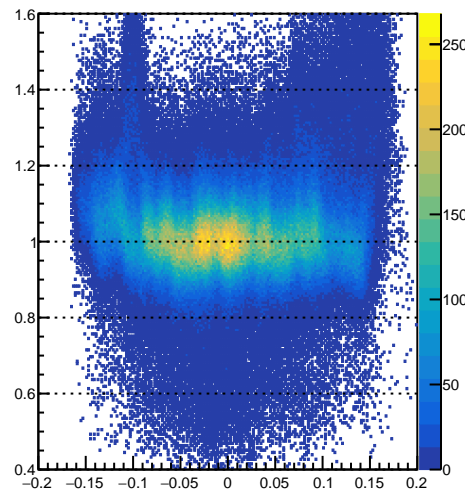
E/p vs Track x



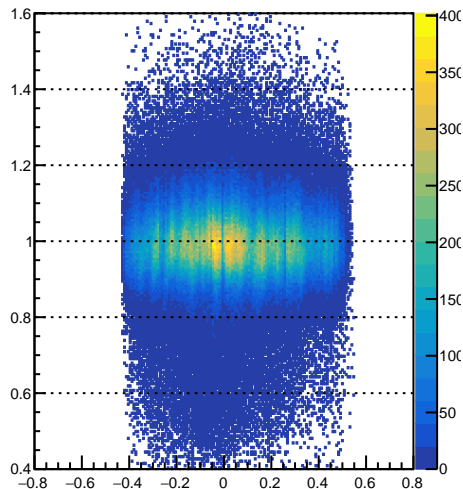
E/p vs Track y



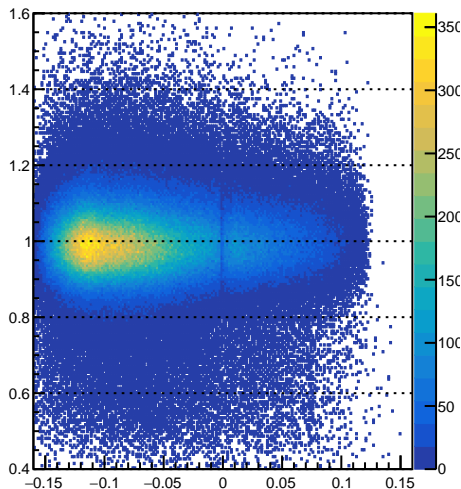
E/p vs Track theta



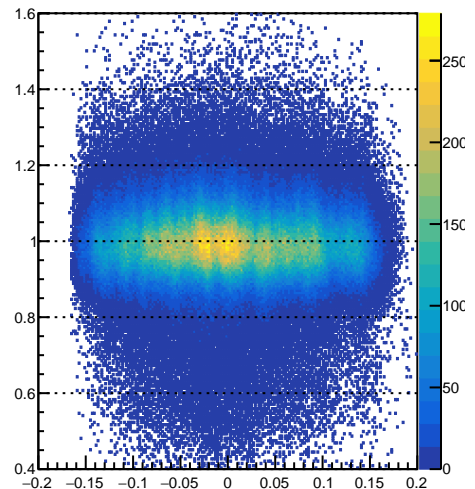
E/p vs Track x | After Calib.



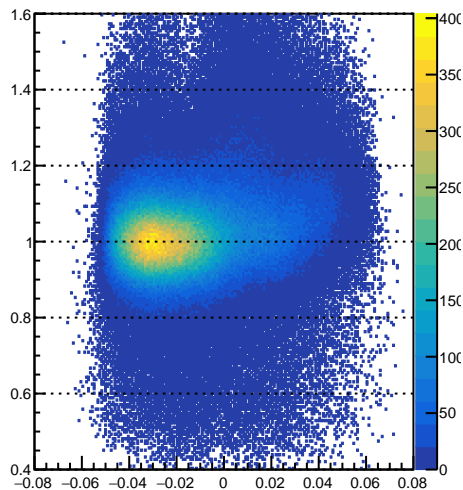
E/p vs Track y | After Calib.



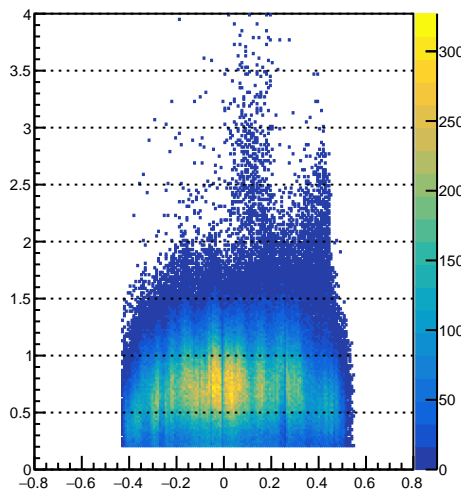
E/p vs Track theta | After Calib.



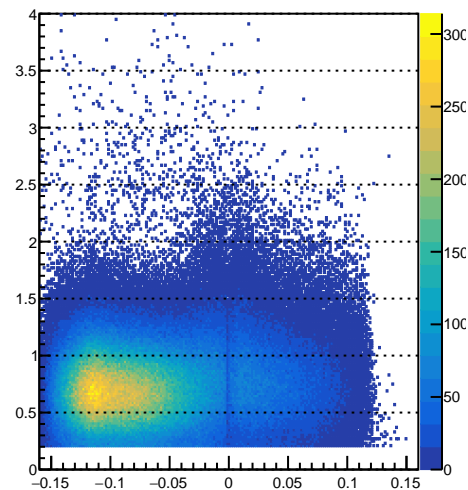
E/p vs Track phi



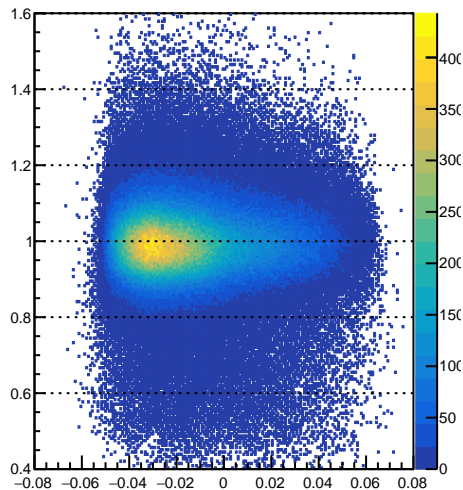
PS energy vs Track x



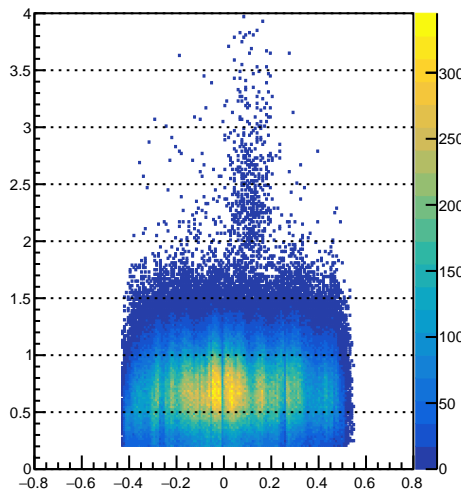
PS energy vs Track y



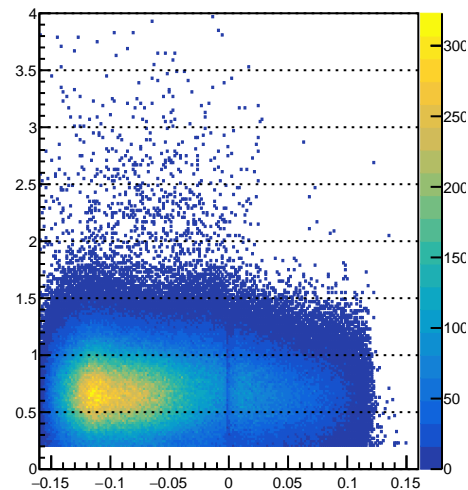
E/p vs Track phi | After Calib.



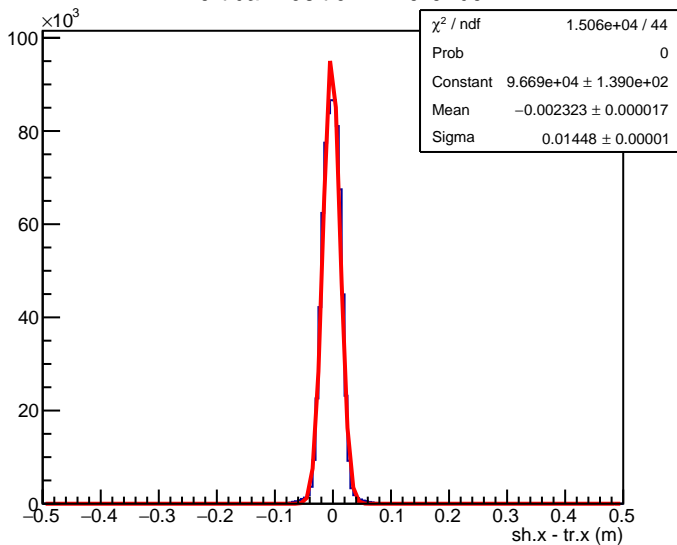
PS energy vs Track x | After Calib.



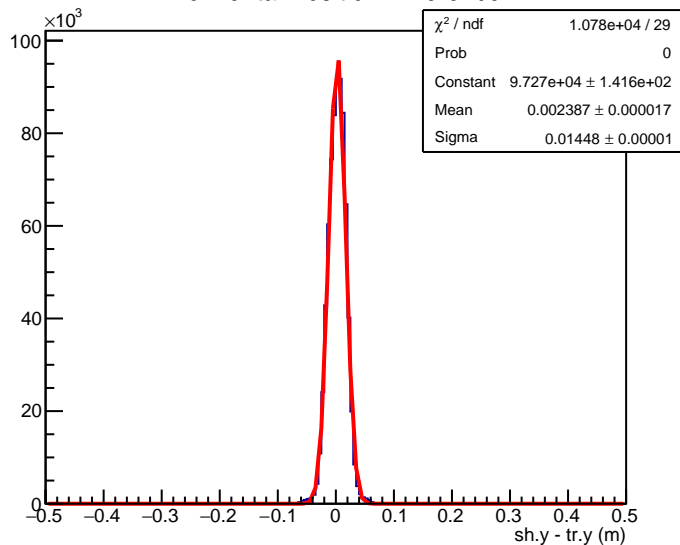
PS energy vs Track y | After Calib.



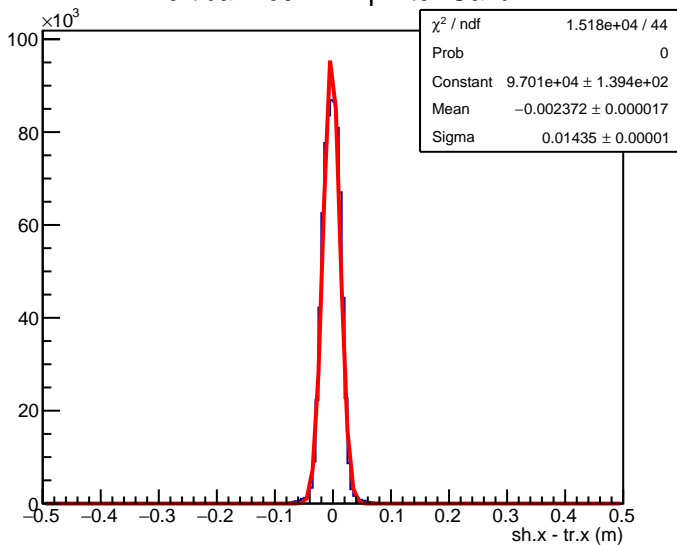
Vertical Position Difference



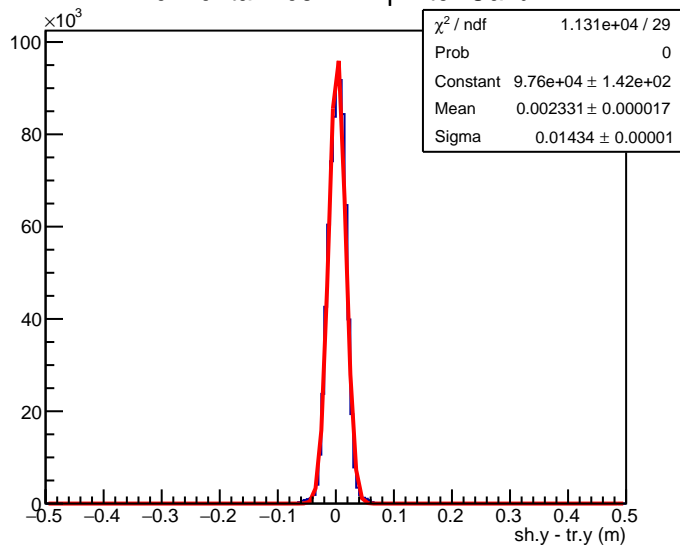
Horizontal Position Difference



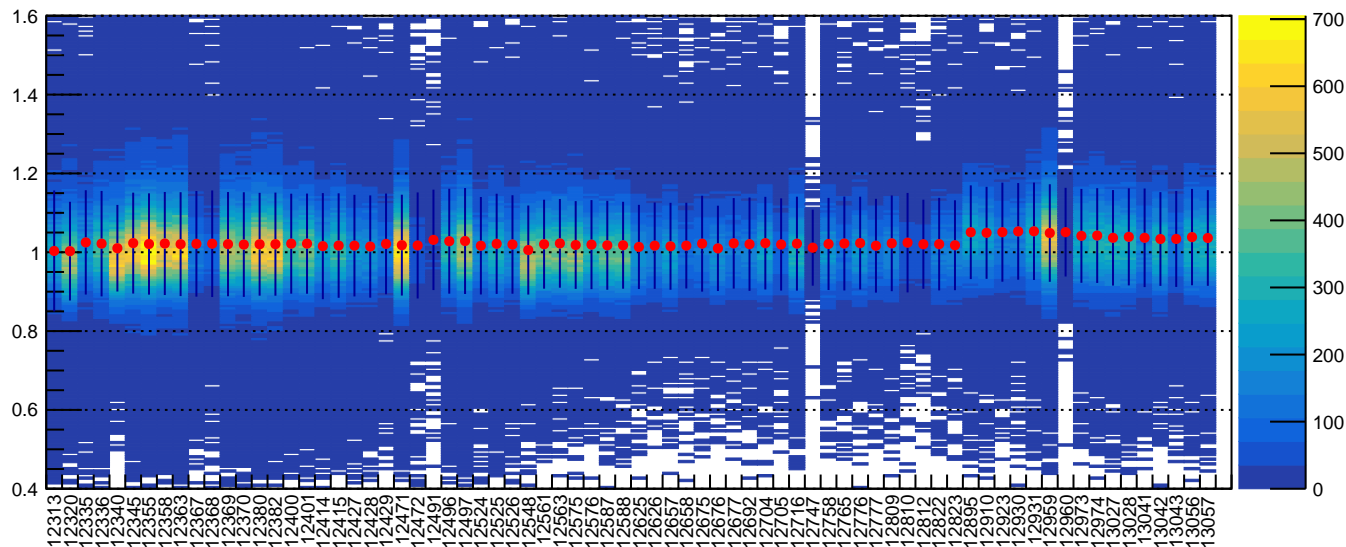
Vertical Pos. Diff. | After Calib.



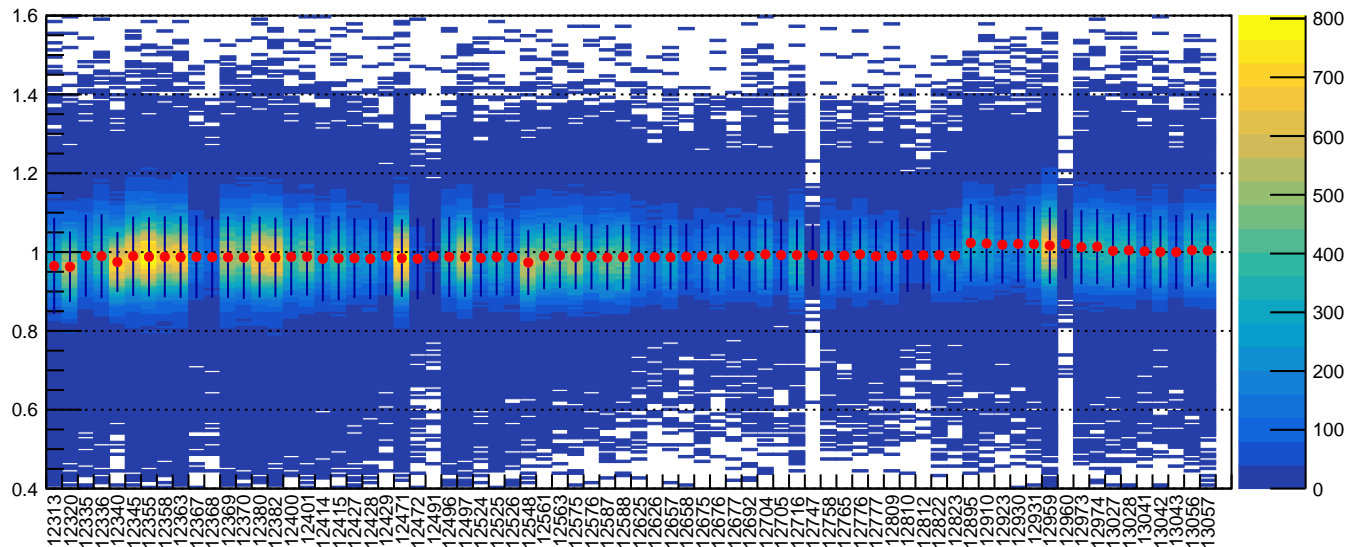
Horizontal Pos. Diff. | After Calib.



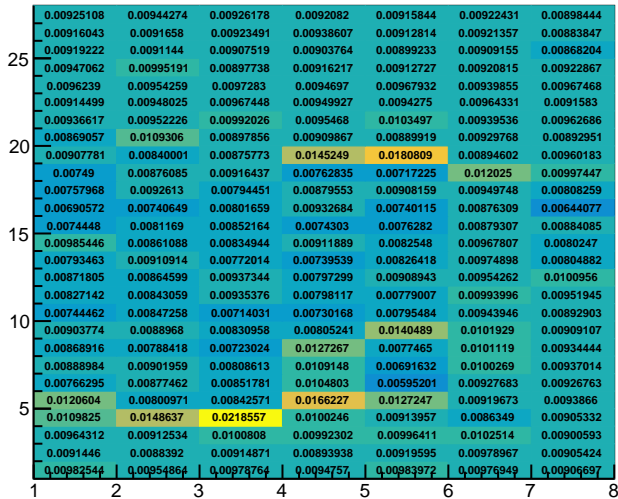
E/p vs Run no.



E/p vs Run no. | After Calib.



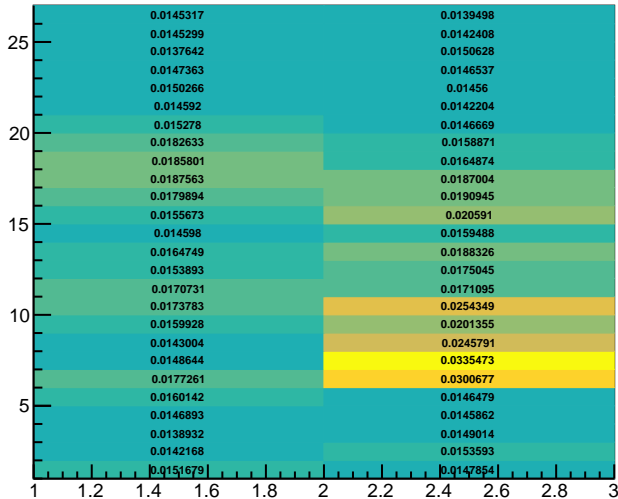
Old ADC Gain Coefficients | SH



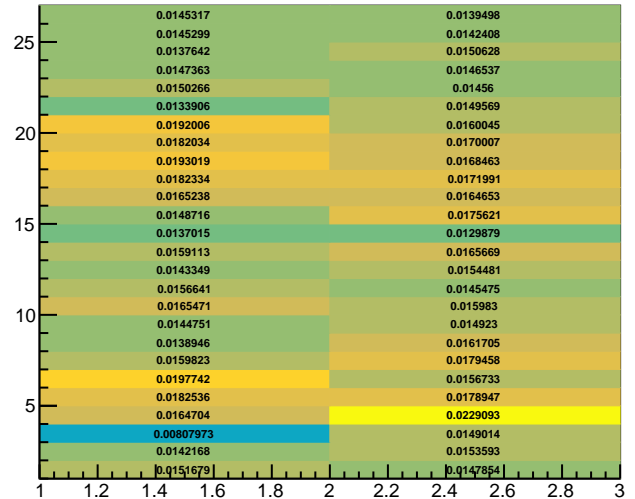
New ADC Gain Coefficients | SH



Old ADC Gain Coefficients | PS



New ADC Gain Coefficients | PS



Date of creation: 8/16/2023

Configfile: **BBCal_replay/macros/Combined_macros/cfg/sbs11-sbs100p.cfg**

Total # events analyzed: 13546584, Preparing for replay pass: 2

E/p (before calib.) | $\mu = 1.01$, $\sigma = (8.059 \pm 0.010)$ p

E/p (after calib.) | $\mu = 0.99$, $\sigma = (6.951 \pm 0.009)$ 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])<0.32,

PS cluster energy > 0.2 GeV

p_recon > 2.0 GeV/c

events passed global cuts: 970908

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 = 0.273110000, B = 0.721663000, C = 0.0, $\theta_{\text{pitch}}^{\text{GEM}} = 10.0^\circ$, $d_{\text{BB}} = 1.5515$ m

Macro processing time: CPU 1580.3s | Real 2278.4s