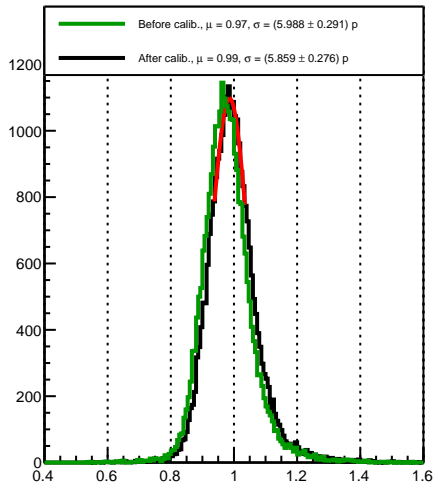
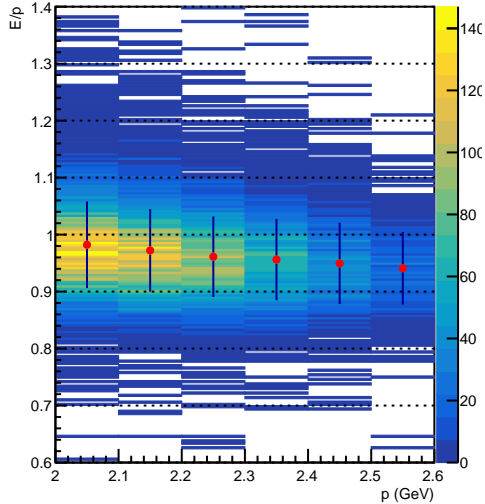


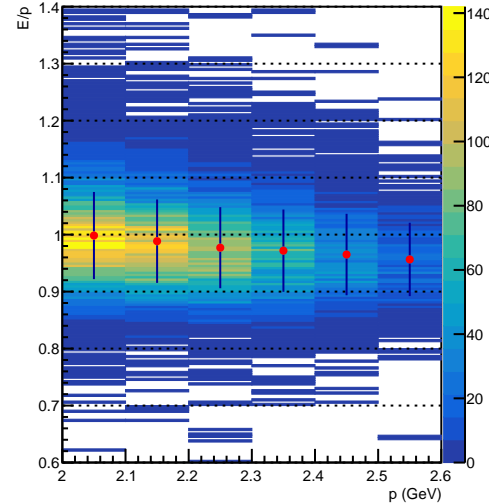
E/p



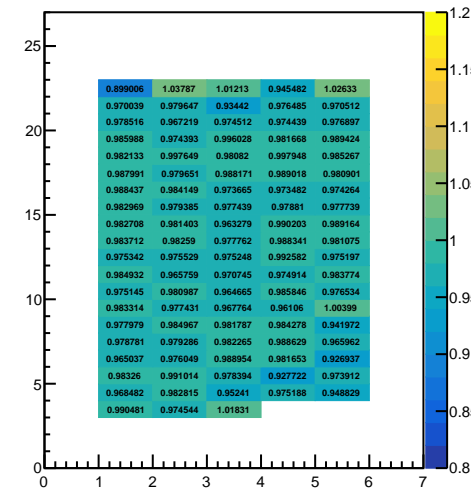
E/p vs p



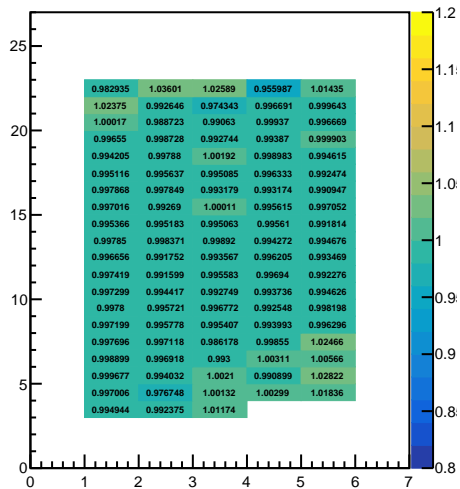
E/p vs p | After Calib.



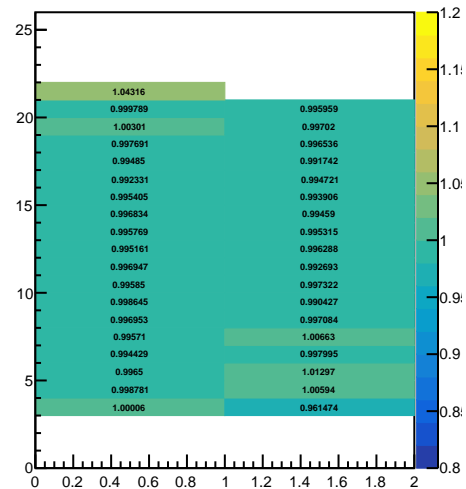
E/p per SH block



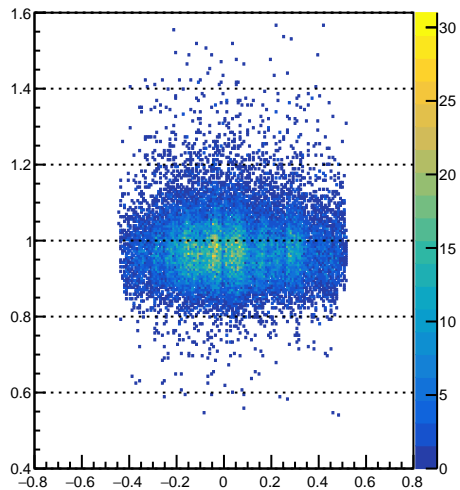
E/p per SH block | After Calib.



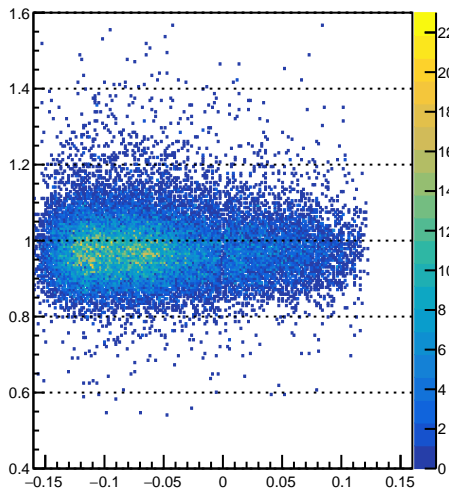
E/p per PS block | After Calib.



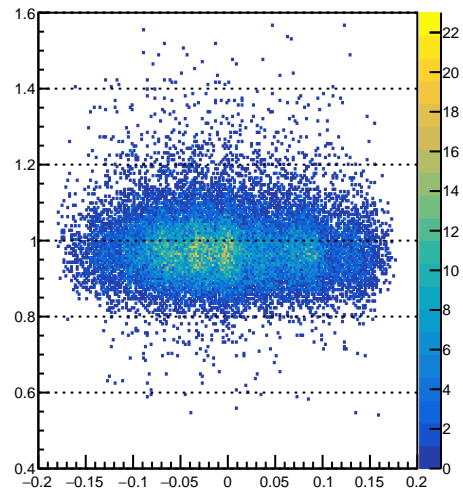
E/p vs Track x



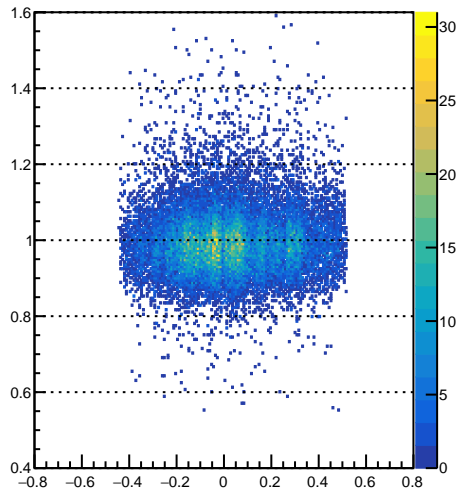
E/p vs Track y



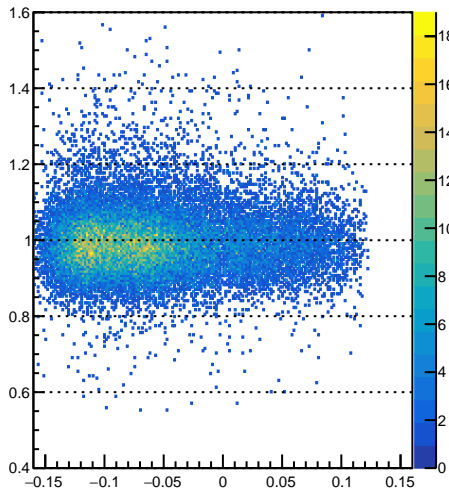
E/p vs Track theta



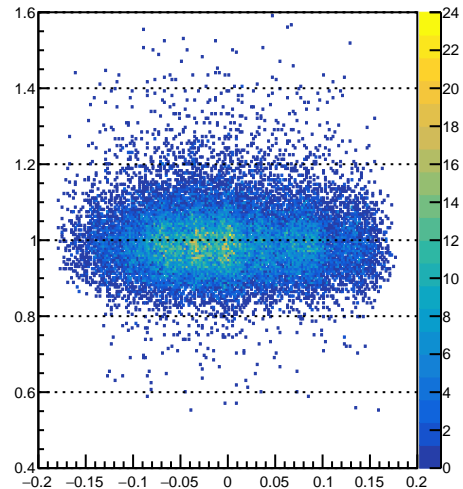
E/p vs Track x | After Calib.



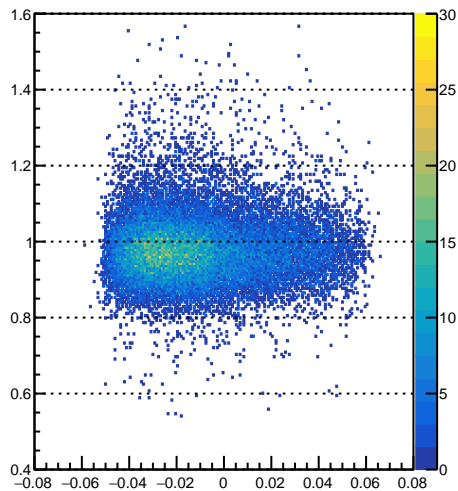
E/p vs Track y | After Calib.



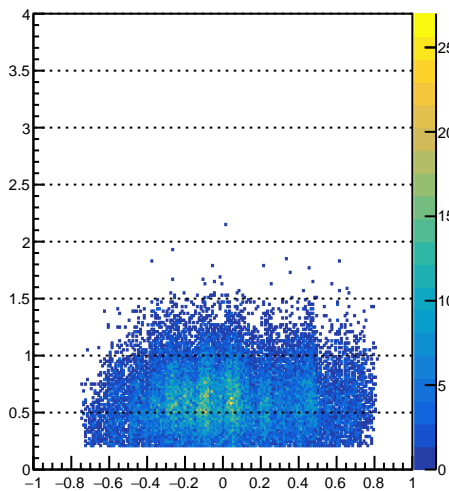
E/p vs Track theta | After Calib.



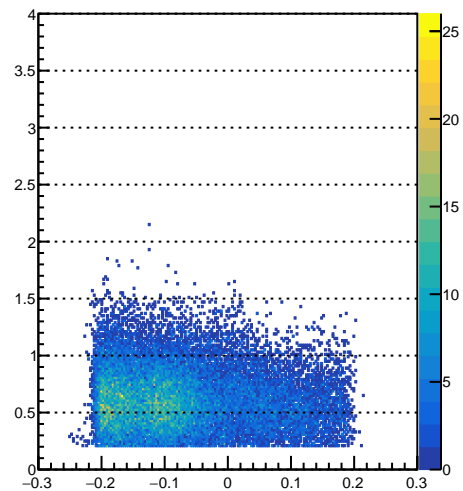
E/p vs Track phi



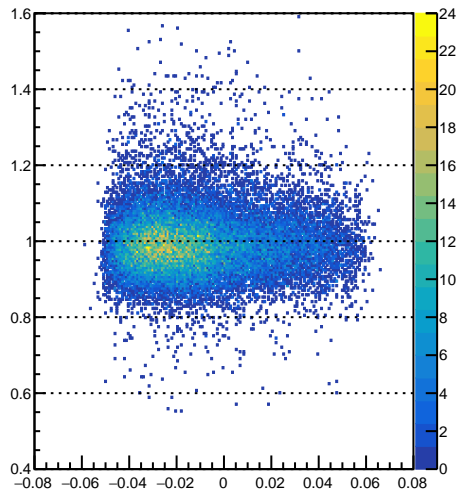
PS energy vs Track x (proj. at PS)



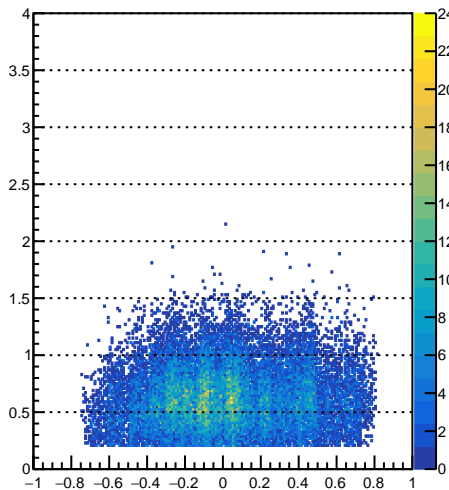
PS energy vs Track y (proj. at PS)



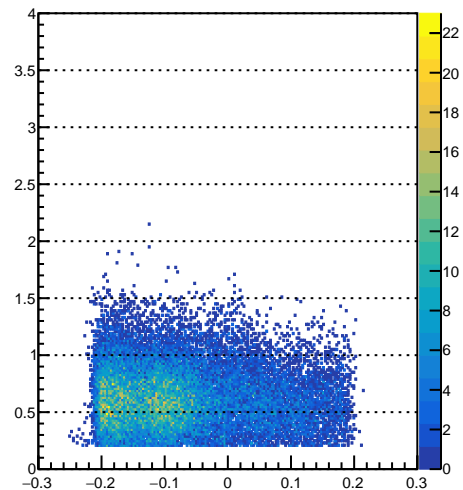
E/p vs Track phi | After Calib.



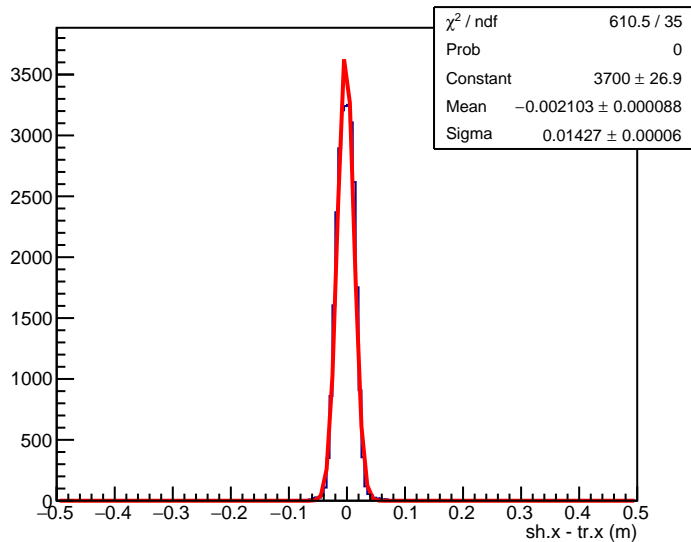
PS energy vs Track x (proj. at PS) | After Calib.



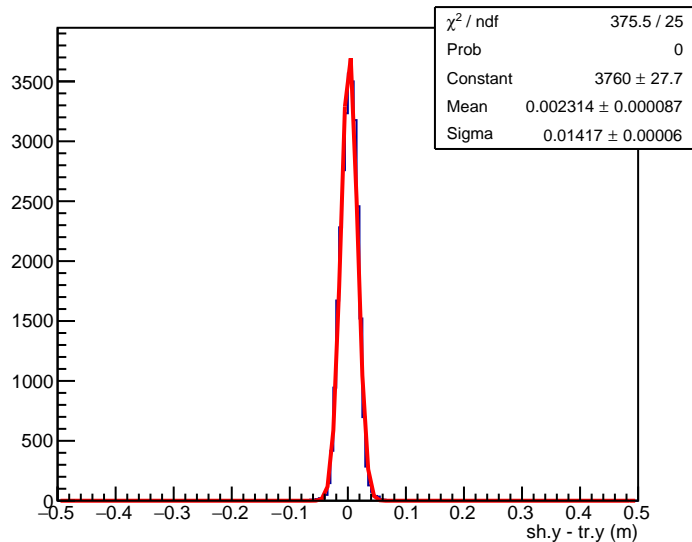
PS energy vs Track y (proj. at PS) | After Calib.



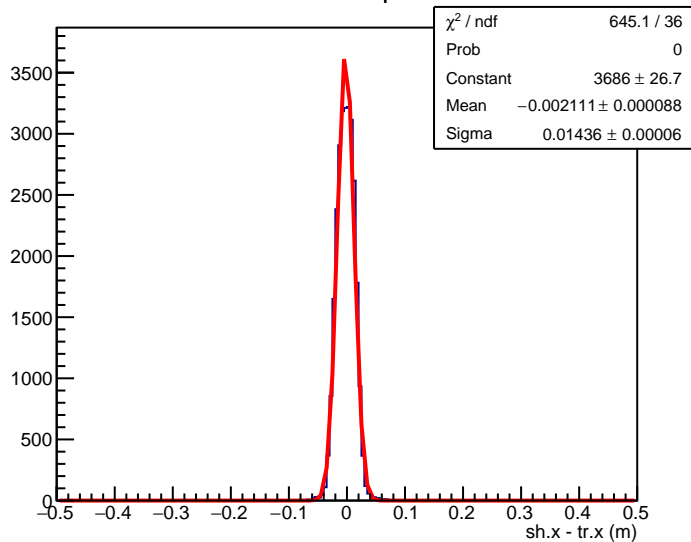
Vertical Position Difference



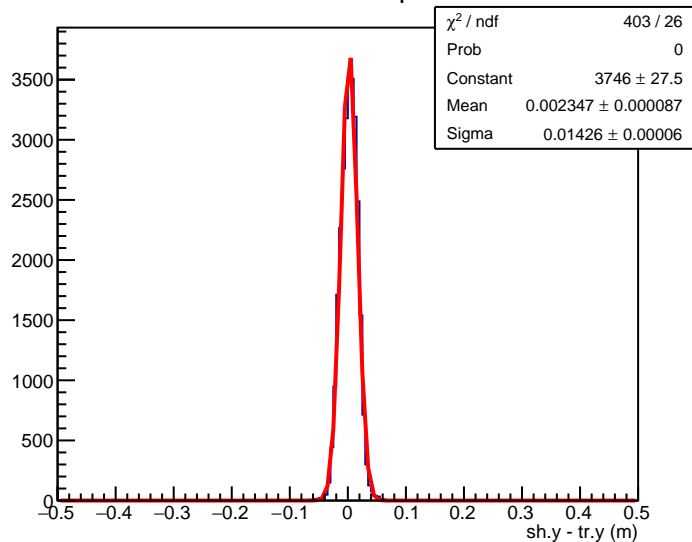
Horizontal Position Difference



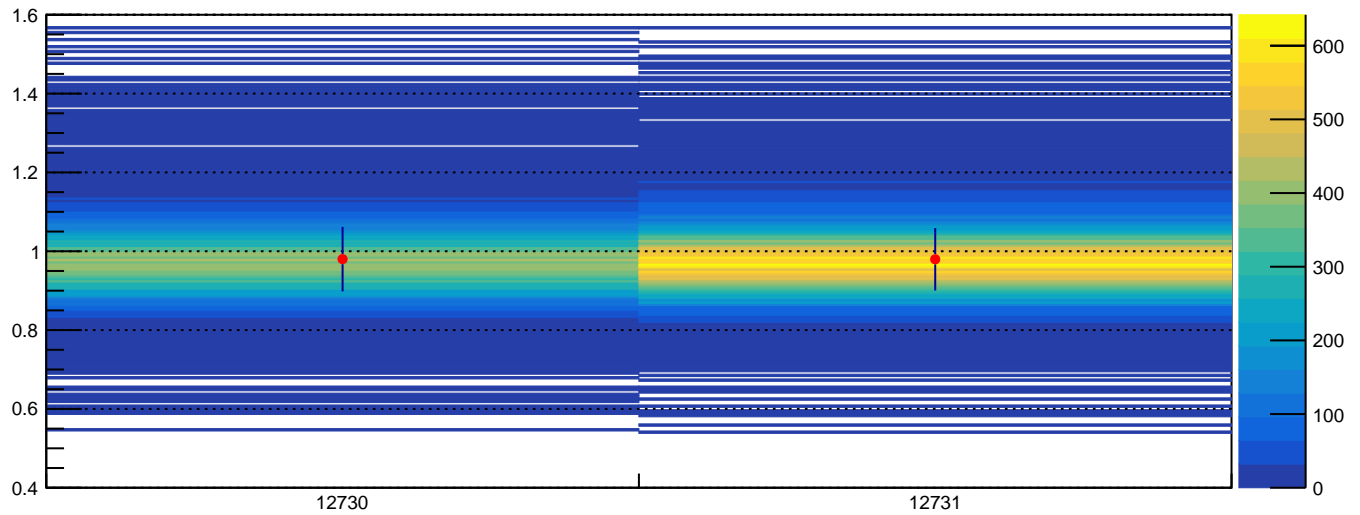
Vertical Pos. Diff. | After Calib.



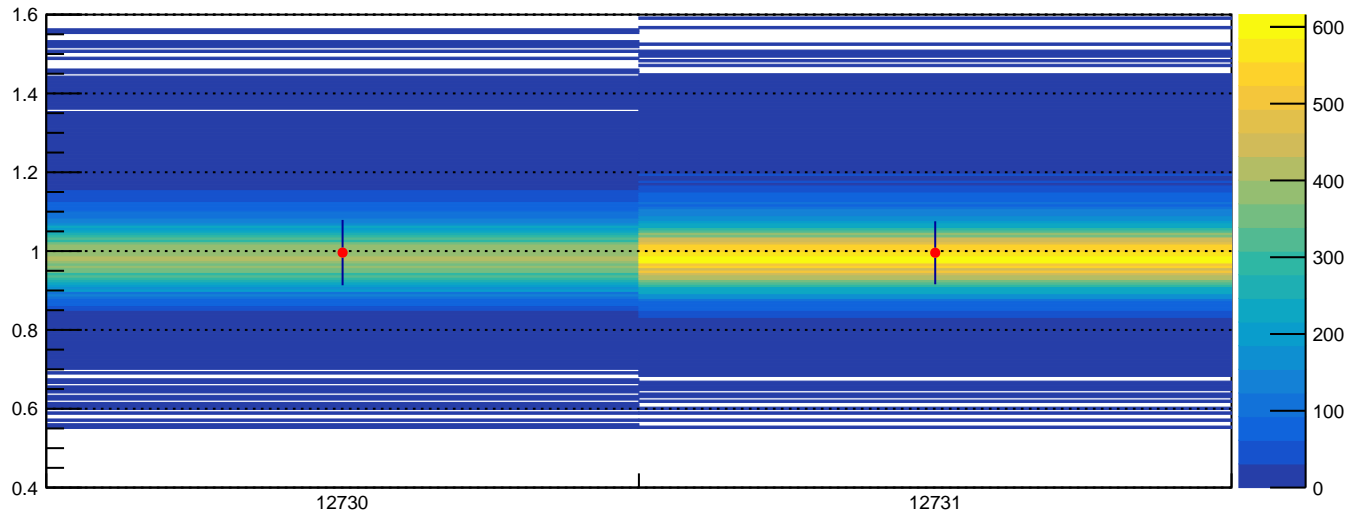
Horizontal Pos. Diff. | After Calib.



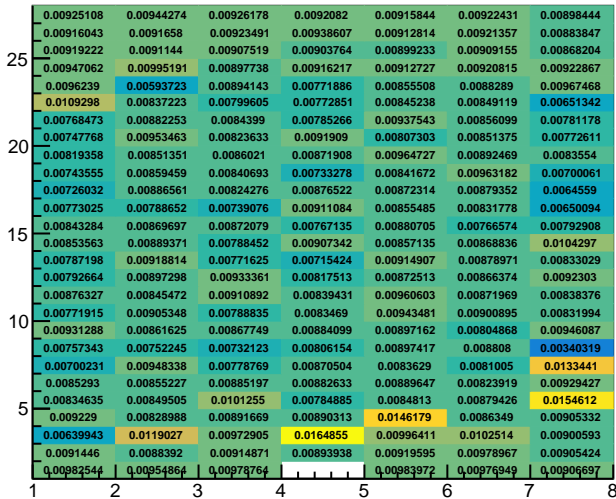
E/p vs Run no.



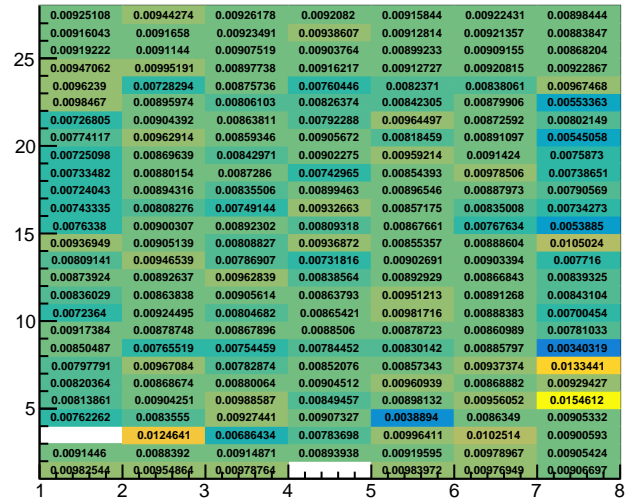
E/p vs Run no. | After Calib.



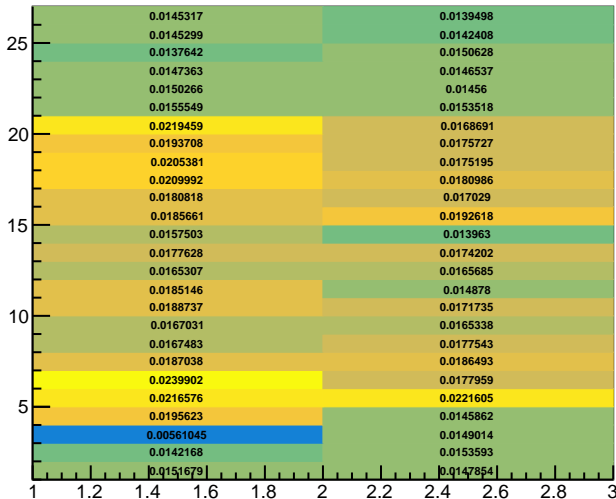
Old ADC Gain Coefficients | SH



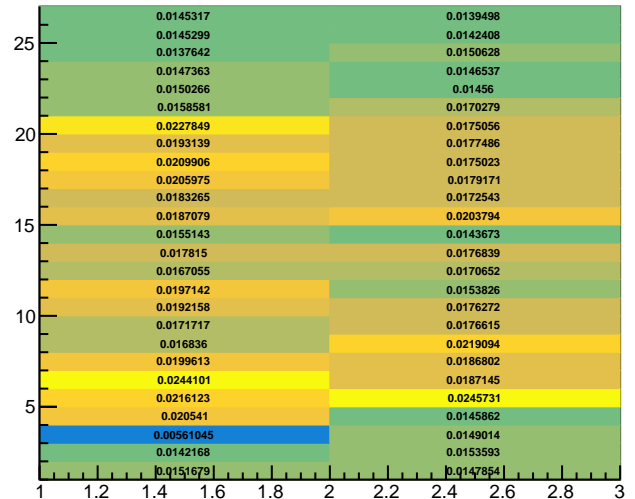
New ADC Gain Coefficients | SH



Old ADC Gain Coefficients | PS



New ADC Gain Coefficients | PS



Date of creation: 1/5/2024

Configfile: **BBCal_replay/macros/Combined_macros/cfg/sbs11-sbs0p.cfg**

Total # events analyzed: 1690336, Preparing for replay pass: 2

E/p (before calib.) | $\mu = 0.97$, $\sigma = (5.988 \pm 0.291) p$

E/p (after calib.) | $\mu = 0.99$, $\sigma = (5.859 \pm 0.276) p$

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, bb.gem.track.ngoodhits[0]>2, bb.gem.track.chi2ndf[0]<15,
bb.sh.e>0.7,**

PS cluster energy > 0.2 GeV

1.8 < p_recon < 3.2 GeV/c

events passed global cuts: 37614

Other cuts:

Minimum # events per block: 25 | 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 129.3s | Real 297.6s