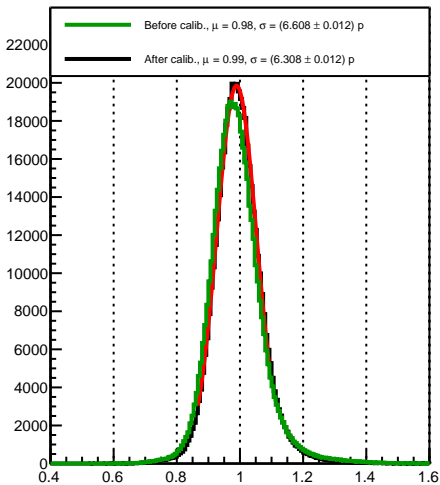
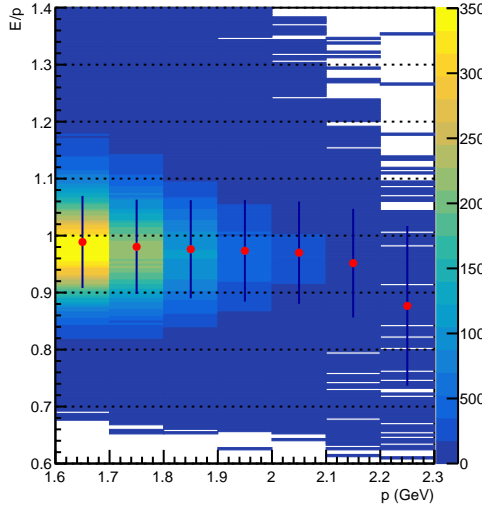


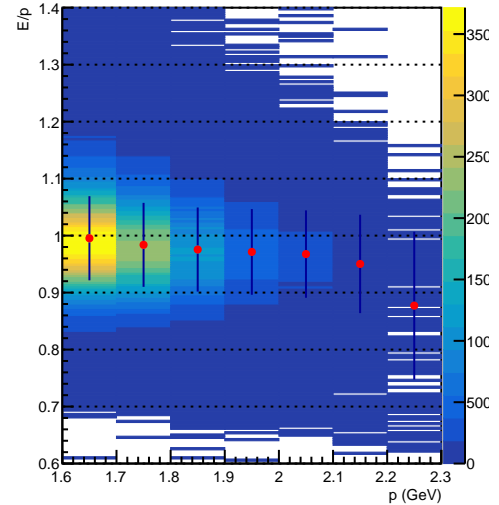
E/p



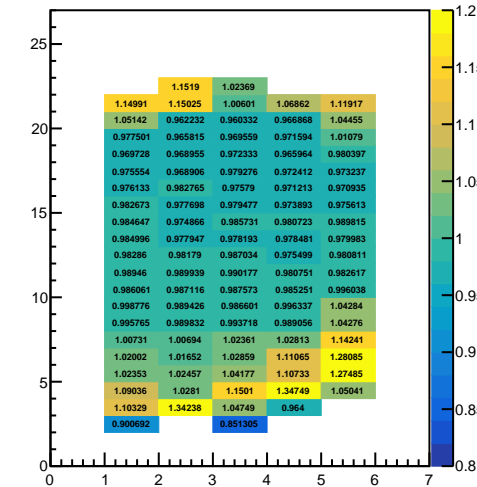
E/p vs p



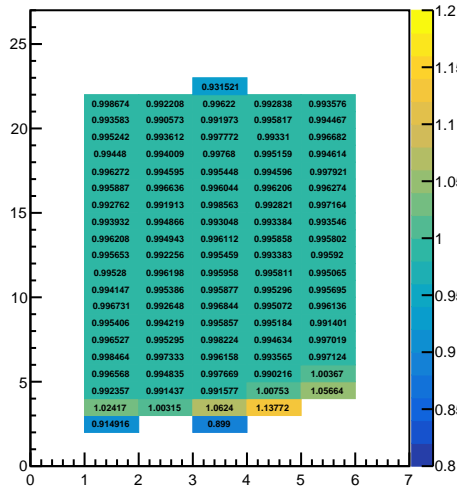
E/p vs p | After Calib.



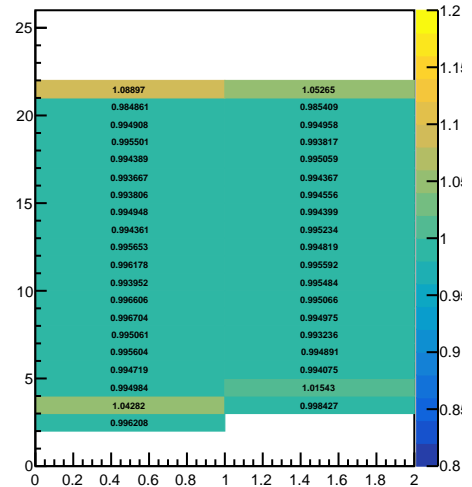
E/p per SH block



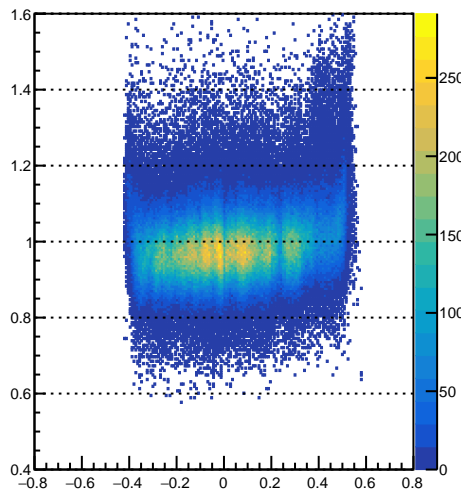
E/p per SH block | After Calib.



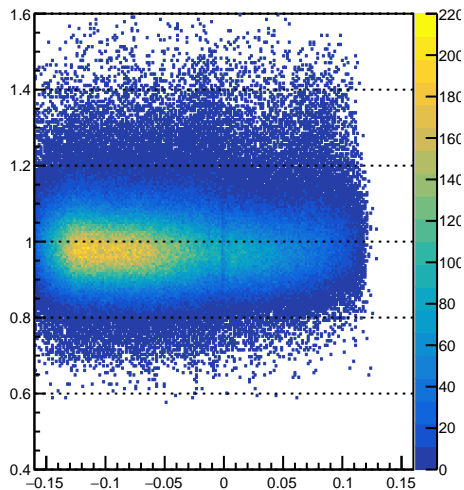
E/p per PS block | After Calib.



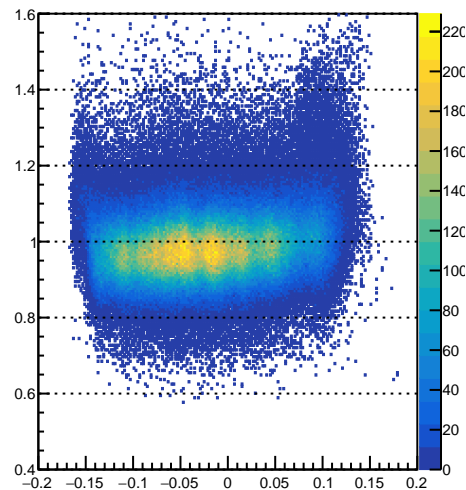
E/p vs Track x



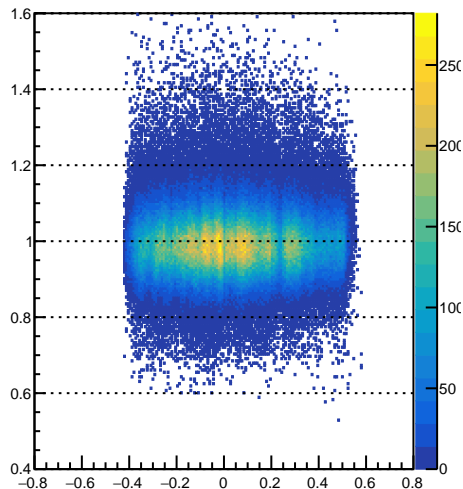
E/p vs Track y



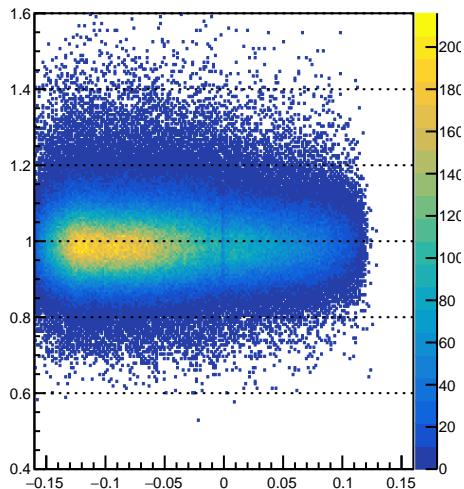
E/p vs Track theta



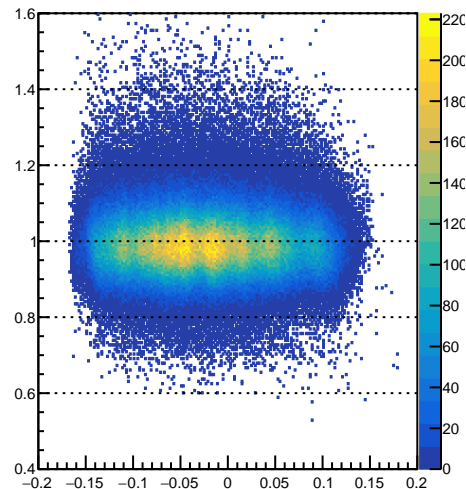
E/p vs Track x | After Calib.



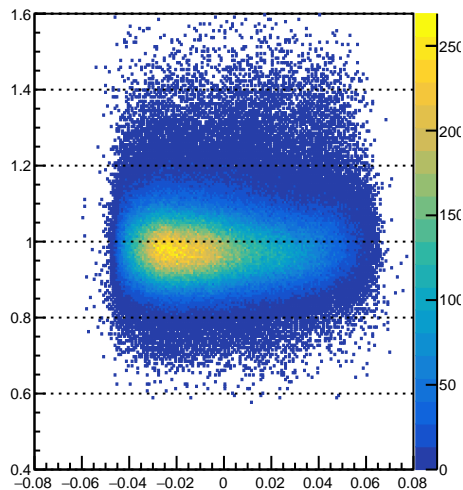
E/p vs Track y | After Calib.



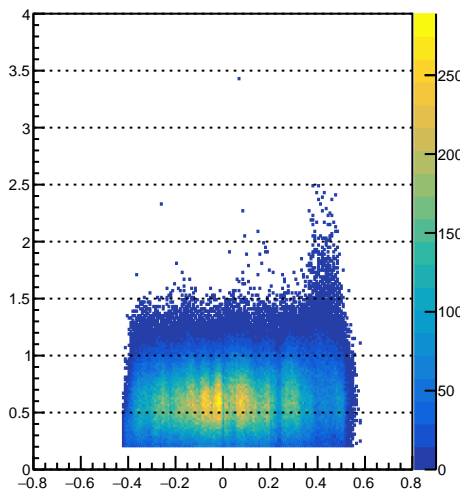
E/p vs Track theta | After Calib.



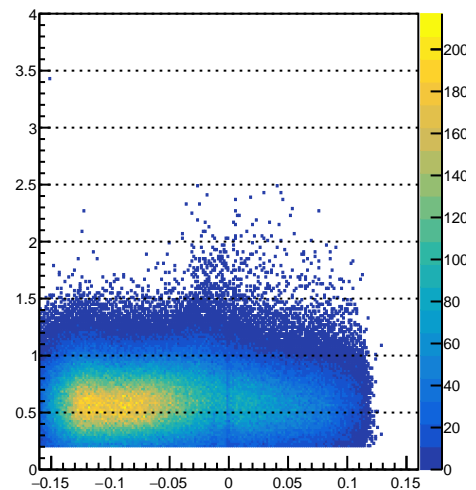
E/p vs Track phi



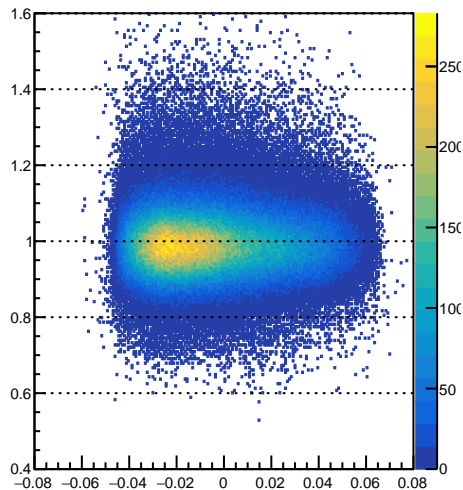
PS energy vs Track x



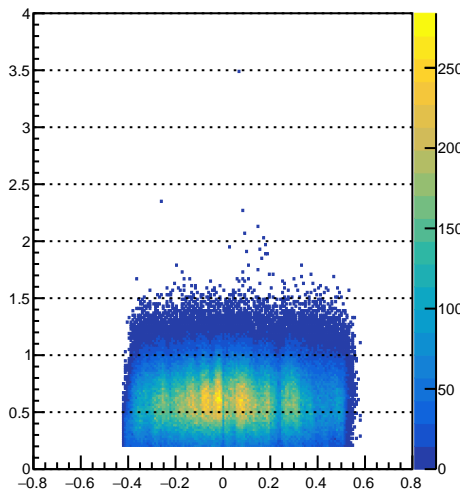
PS energy vs Track y



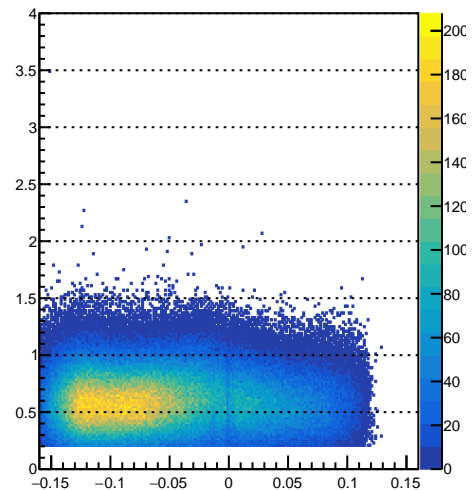
E/p vs Track phi | After Calib.



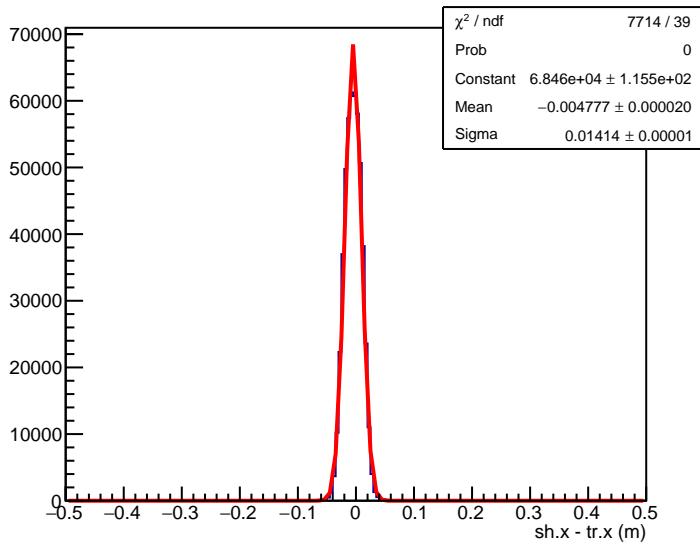
PS energy vs Track x | After Calib.



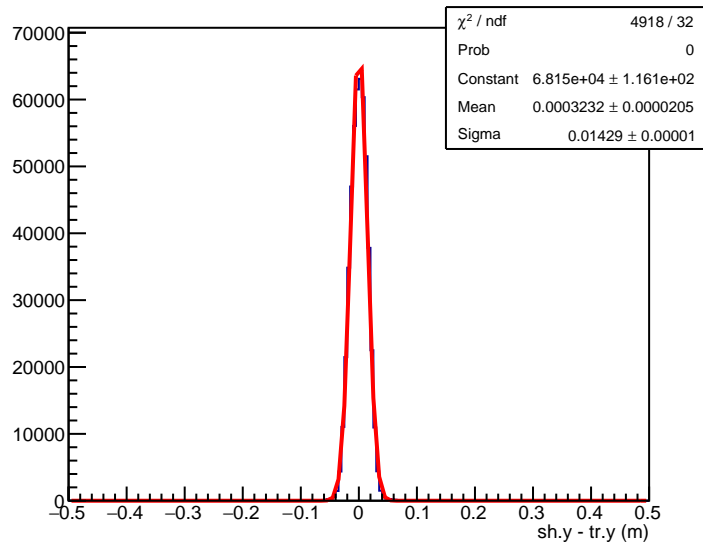
PS energy vs Track y | After Calib.



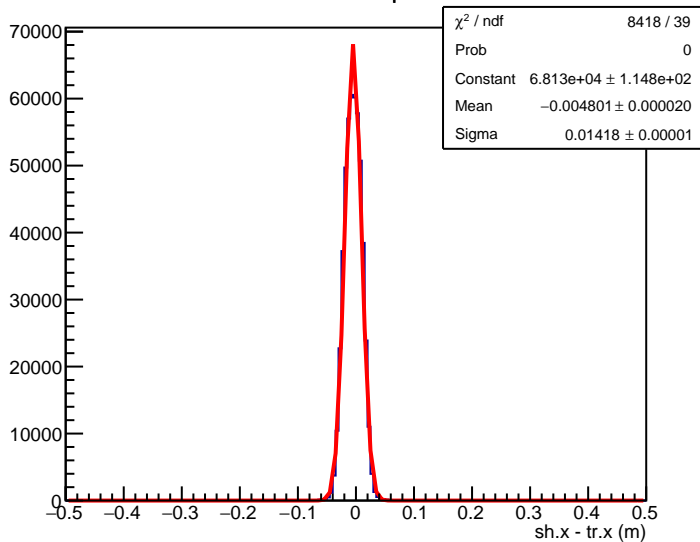
Vertical Position Difference



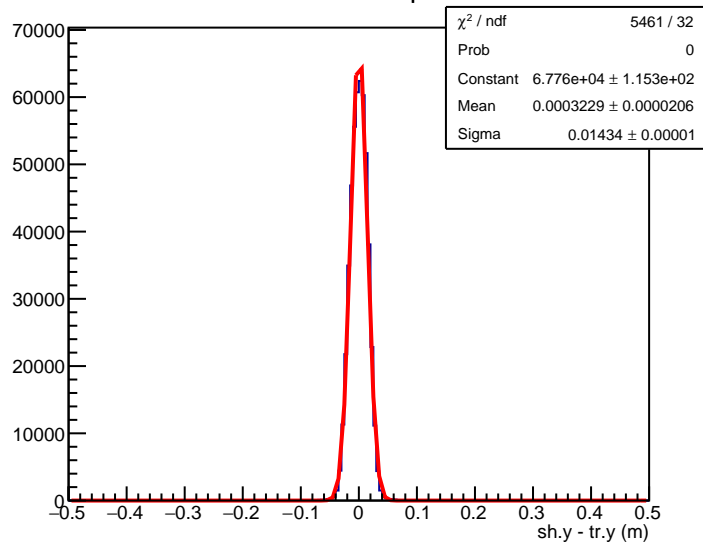
Horizontal Position Difference



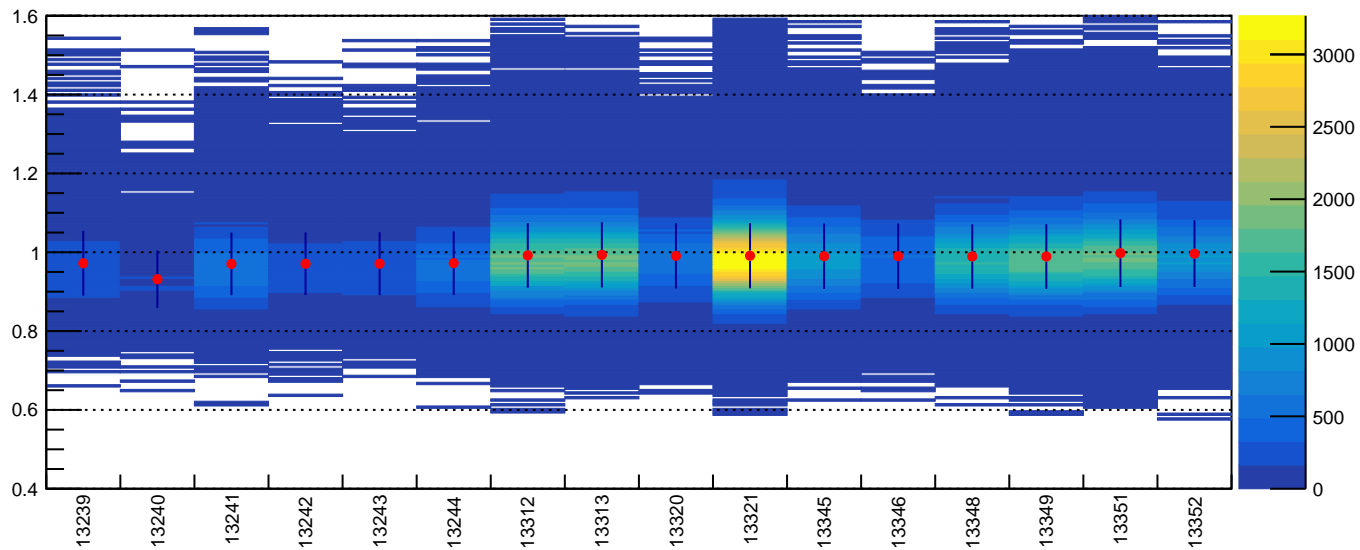
Vertical Pos. Diff. | After Calib.



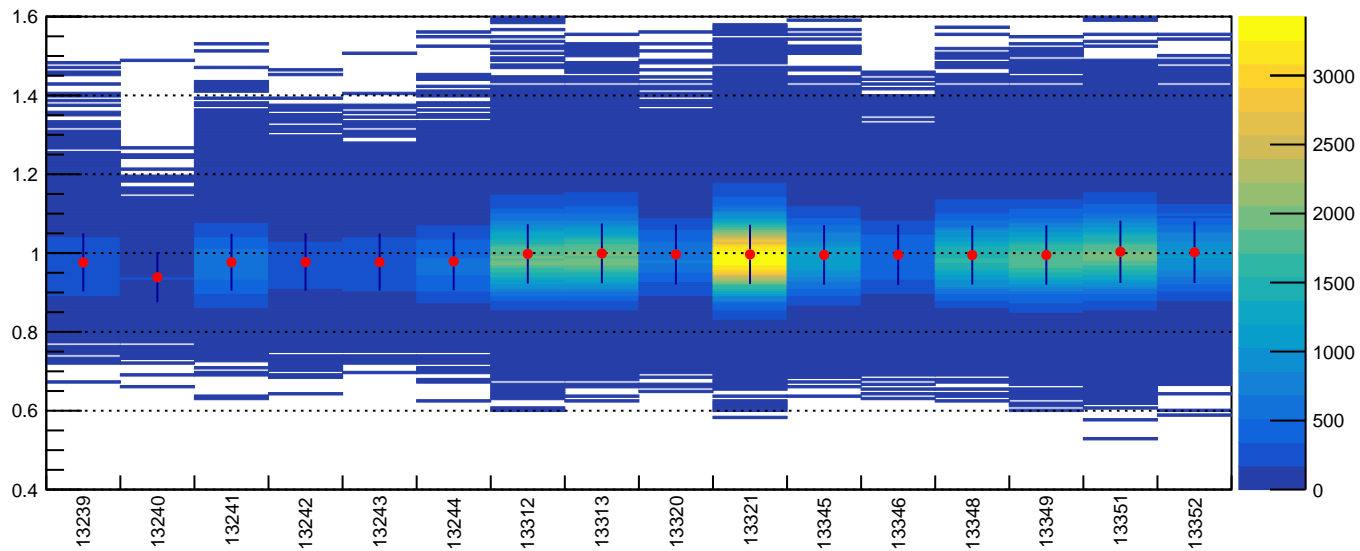
Horizontal Pos. Diff. | After Calib.



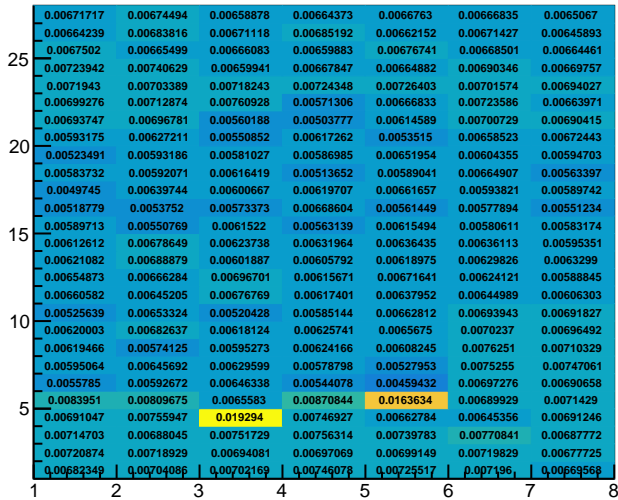
E/p vs Run no.



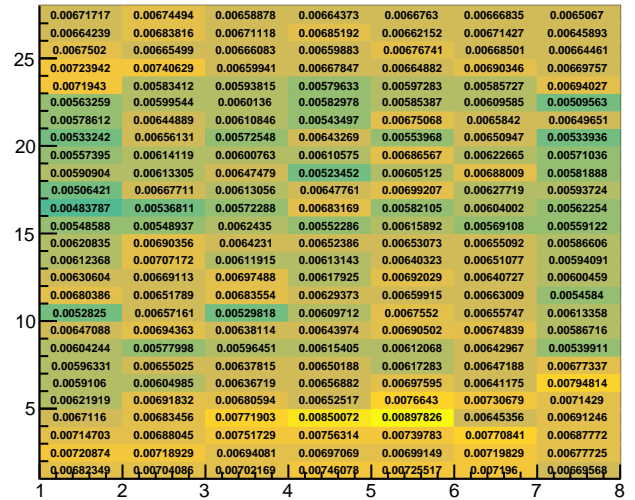
E/p vs Run no. | After Calib.



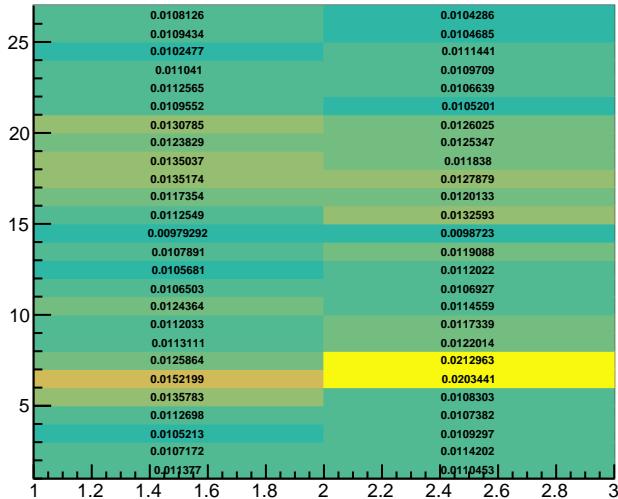
Old ADC Gain Coefficients | SH



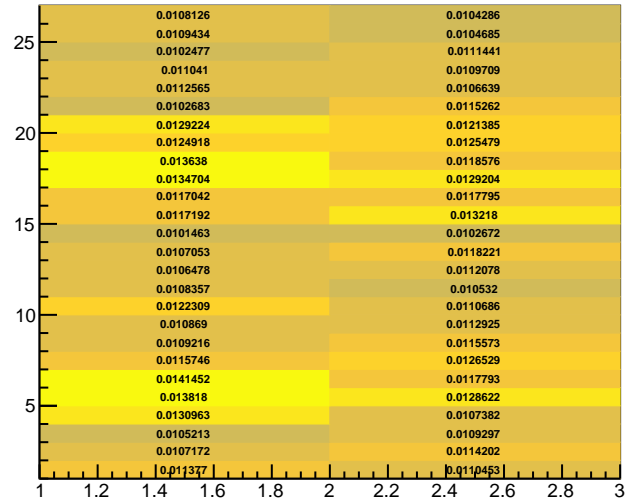
New ADC Gain Coefficients | SH



Old ADC Gain Coefficients | PS



New ADC Gain Coefficients | PS



Date of creation: 8/16/2023

Configfile: BBCal\_replay/macros/Combined\_macros/cfg/sbs14-sbs70p.cfg

Total # events analyzed: 3506692, Preparing for replay pass: 2

E/p (before calib.) |  $\mu = 0.98$ ,  $\sigma = (6.608 \pm 0.012)$  p

E/p (after calib.) |  $\mu = 0.99$ ,  $\sigma = (6.308 \pm 0.012)$  p

**Global cuts:**

$\text{bb.tr.n}==1$ ,  $\text{abs}(\text{bb.tr.vz}[0])<0.08$ ,  $\text{bb.gem.track.nhits}>3$ ,

$\text{abs}(\text{bb.tr.r\_x}[0]-0.9*\text{bb.tr.r\_th}[0]-0.035)<0.335$ ,

PS cluster energy > 0.2 GeV

$p_{\text{recon}} > 1.5$  GeV/c

# events passed global cuts: 629404

**Other cuts:**

Minimum # events per block: 300, (Cluster) hit threshold: 0.02 GeV

**Various offsets:**

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

Momentum calibration factors: A = 0.268609000, B = 0.953111000, C = 0.0,  $\theta_{\text{pitch}}^{\text{GEM}} = 10.0^\circ$ ,  $d_{\text{BB}} = 1.8479$  m

Macro processing time: CPU 413.6s | Real 427.9s