Examine Individual Runs:

Run: root /eos/atlas/atlascerngroupdisk/det-tile/*year*/tile\_*number*\_CIS.0.aan.root

PLOTS:

[0][x][y] = LBA module x channel y

[1][x][y] = LBC module x channel y

[2][x][y] = EBA module x channel y

[3][x][y] = EBC module x channel y

Amp/Charge Plots:

Low:

h2000->Draw("eFit\_lo[0][0][10]/cispar[6]:cispar[6]","cispar[7]==100 && 374 < cispar[6] && cispar[6] < 875","BOX")

High:

h2000->Draw("eFit\_hi[0][0][10]/cispar[6]:cispar[6]","cispar[7]==100 && 3 < cispar[6] && cispar[6] < 13","BOX")

Timing plots:

Low:

h2000->Draw("tFit\_lo[0][0][10]","cispar[7]==100 && 374 < cispar[6] && cispar[6] < 875")

High:

h2000->Draw("tFit\_hi[0][0][10]","cispar[7]==100 && 3 < cispar[6] && cispar[6] < 13")

Want timing to be in range of (-15, 10) ish

Missing Pulses:

h2000->Draw("sample\_lo[0][][10][3]-sample\_lo[0][][10][0]:EvtNr","sample\_lo[0][][10][3]<100","COLZ")

Look for missing pulses:

for example, low gain channel 10 from module LBA64:

h2000->Draw("eFit\_lo[0][63][10]:EvtNr","eFit\_lo[0][63][10]<40")

or

h2000->Draw("Sum$(sample\_lo[0][63][10][])/7:EvtNr","","BOX")

or

h2000->Draw("Sum$(sample\_lo[0][63][10][])/7-sample\_lo[0][63][10][0]:EvtNr","Sum$(sample\_lo[0][63][10][])<300","BOX")

h2000->Draw("eFit\_lo[0][33][]:Iteration$","cispar[6]\*cispar[7]>500 && eFit\_lo[0][33][]/(cispar[7]\*cispar[6]/102.4)<0.5","COLZ")