I am updating the cis\_charge.C++ file sent to us by sasha so that it will plot both amp/q and timing all at once

First error when I run without changing anything at all:

file /eos/atlas/atlascerngroupdisk/det-tile/2022/tile\_400323\_CIS.0.aan.root does not exist

Think this is bc the sample run was taken in 2021, trying it with a new run from this year (411839)

That works!

Produces 4 sets of plots: 100pf and 5pf for LG and HG…

var.Form("eFit\_hi%s/cispar[6]/1.024/64/0.052:%s",(const char \*)ind,(const char \*)xxx);

cut.Form("cispar[7]==5 && cispar[6]>0 && cispar[6]<300 && eFit\_hi%s>35",(const char \*)ind); // 5 pF, HG, DAC range [32,288]

nam.Form("%s\_HG\_5pF",(const char \*)mod);

cis\_charge(run,(const char \*)var,(const char \*)cut,(const char \*)nam);

What I want to plot:

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