

Request to change ACD gain and pedestal files

The ACD Pedestals and Gains used in processing are based on ground calibrations and can be greatly improved.

ACD Pedestals

As seen in this [report](#), The ACD pedestals values are pretty close to the ground data, with deviations of up to 20-30 pha counts. Correctly subtracting the pedestals will improve our handling of small signals in the ACD and reduce the self-veto.

The relevant file is at:

/afs/slac.stanford.edu/g/glast/ground/releases/calibrations/ACD/PROD/ACD_Ped/vanilla_flight_peds_080626.xml

ACD Gain (aka MIP calibration)

As seen in this [report](#), The ACD MIP peak values are generally 20% higher in orbit than on the ground. In addition, a dozen channels or so are badly miscalibrated in the ground data. Correctly applying the MIP calibrations will improve our calibration of signals in the ACD and reduce the self-veto and improve background rejection efficiency.

The relevant file is at:

/afs/slac.stanford.edu/g/glast/ground/releases/calibrations/ACD/PROD/ACD_ElecGain/vanilla_flight_gains_080630.xml