

## Monsoon Power Supply Noise studies:

Todd Moore has improved the grounding, put a new DAC in the CBB, and installed the same focal plane as the one used at FNAL for noise studies, so that we make the same measurements as FNAL. Todd saw decrease in  $\sigma$  from 12-15 counts to about 4-8 counts.

Todd and Mats Selen plan to test each voltage line: while using linear supplies, they will inject controlled noise and record the effect of this noise and its characteristics on the  $\sigma$  of the signal distribution. The idea is to then focus on the most significant voltages and their features. Tao Qian added code in the descrambler so that we can read off the means and sigmas as we go, rather than have to collect them later from FITS files. We checked that Tao's results and the *noiselast* used at FNAL agree. Todd is working on a script to automate the noise test.

## Monsoon Data Acquisition

Monsoon Supervisor Layer (MSL): [Tao Qian](#) has the MSL working with two crates.

LabView: Tao and [Inga Karliner](#) used TCP connections in LabView to communicate with Monsoon. We took exposures directly on one system, and we took exposures using MSL, sending individual commands to the PANs or to the MSL.

We have a straw man VI that reads a a set of instructions from a script, initializes Monsoon and takes an exposure. A similar script can be used to operate the MSL. We are learning more about LabView in order to expand our Vis, and to develop a program that would allow the use of interrupts.

Data Handling System (DHS): Newfirm has delivered data using a two-crate Monsoon system. Chris Smith gave us the Newfirm data flow diagram. Tao got some info from Phil Daly at NOAO about the Newfirm DHS. Phil also told Tao to contact Mike Fitzpatrick for details.

Inga is also working on the FCS Interface Control Document.