Meeting Notes October 31, 2013

Attendees: Stephen Kaye, Pravin Chordia

**Minutes**

* Prototype delivery date is being pushed. The software needs more work, but the hardware is ready.
* An extra connector to facilitate the probing of signals was decided against since the signals are accessible by a probe.
* Two questions about the controller definition – 1. Where does the -60V for the guider come from as it is not in the data sheet? 2. Do we need any negative biases?
* Went over simulations. The in-loop compensation produced a transient waveform with large over shoot. This must be investigated.
* The lead compensation seemed to produce the best results.
* A filter was also placed at the output of the multiplexer. This may be what creates the best results.
* The output of the multiplexer will be probed with and without the RC filter installed.
* We still need to do an analytic analysis of the two compensation techniques.

**Action Items**

**IUCAA**

* + Continue getting the prototype and spare system ready.
  + Probe and test signal from the multiplexer. Probe the signal when the RC filter is not installed and when it is installed.
  + Perform analysis of clock driver circuit.

**Caltech**

* + Find out where the -60V bias for the guider comes from.
  + Determine if a negative bias is needed
  + Complete waveform tables and send along to IUCAA
  + Perform analytical analysis of clock driver circuit. Determined dominant poles in circuit.