

ARCTIC Telecon

Attending: Russet, Bill, Conor, Alaina, Alysha, Joe, Suzanne

- Leach update
 - Leach tested our preamp boards hot and cold, but could not produce the problems we saw.
 - He resoldered all of the components, just in case.
 - Should be back to telescope Wednesday.
 - Assemble dewar Saturday, get it pumped and on the obs level early next week.
 - Will know in a few weeks if the problem is still with us.
- Pre-commissioning to-do list
 - Will use a die cart for this run. Needs a little bit of assembly. Parts that connect with the instrument are all done.
 - Dewar cage will be ready by the end of Sunday.
 - Lens cell is complete, but not nickel plated or aeroglazed yet. We will make sure the optics are aligned properly and that it can be focused.
 - Electronics are all done, needs to be programmed.
 - Can insert a filter near where it should be with an adapter. Won't be perfect, but doable. Unmount instrument, bolt in holder.
 - Umbilical -- Have all the pieces, Ed needs to make a few cables. Won't have a proper holder on the cart but that isn't critical.
 - ICC -- Conor says it will be ready. Would like to run some tests, based on when Joe is ready. Joe says Fritz's ICC should be available on Saturday.
 - Plan to be on the obs level and cold on Wednesday.
- Notes for the instrument block
 - Chip is 4k by 4k, x overscan of 102 in 1x1 binning.
 - Prefer the upper left quadrant for pointing.
 - Focal plane is closer to the rotator by 2" compared to Spicam. In practice, identical.

Monday, June 16, 2015

- Plate scale is 0.11"/pix in 1x1 binning.
- Handedness -- not sure. We will determine on sky.
- With a preliminary instrument block, doing a new one will be more simple. Should be very close to Spicam.
- Rotation limits +/- 270 degrees.
- Documentation
 - Will need a rough User Manual, based on the Spicam template. Will be populated with real numbers after this run.
 - Engineering docs delivered in the Fall will include--
 - Solid works
 - Shop drawings
 - How it should work
 - Inst design goals
 - Rough obs spec manual
 - Use Tspec as a model
 - What info is missing from most User Manuals?
 - What integration for what magnitude gives what S/N?
 - Background noise info.
 - Extinction coefficients.