



VRO/LSST at FNAL Status Update

Brian Yanny

CPI Projects Meeting

1 September 2022

1. Data Production:

Early on-sky images from AUXTEL (auxillary telescope, 1 ccd vs. 189 ccds for full Rubin camera) will arrive for processing in mid-Sept. FNAL Rubin team to lead processing effort (Jen Adelman-McCarthy, Nikolay Kuropatkin, Huan Lin). Also, 'CI' routine processing of simulated data continues.

2. Data Curation:

Transfer (one-time) of 4PB+ from NCSA → SLAC. Effort led by Brandon White (FNAL). NCSA had Aug deadline to shut-off systems.

More files than expected encountered, slower transfer rates than expected, SLAC short of storage (on order).

To help with this: FNAL DM loaned 1.5PB of dcache storage to park files for 1-2 months. SLAC/Rubin was very appreciative, understands that this was special situation and only temporary. 1+PB parked in FNAL dcache.

Effort to then move from FNAL dcache to SLAC encountered unexpected network issue (only 10% of expected network transfer rate, even though the other way SLAC → FNAL had full rate).

Emergency zoom with Network experts found and fixed an issue, again thanks From Rubin/SLAC to FNAL for rapid help.

3. Data Curation (con't):

Yuyi Guo assisting in setting up 'Butler system backed by postgres DB at SLAC. FNAL DBA team led by Olga Vlasova now on-board and assisting with Design and setup of postgres Dbs at SLAC and other Rubin sites.

4. Resources and Rubin at FNAL group leadership (Jim Annis, Brian Yanny)

Have funding available for at least 2 FTEs based at FNAL to work on Rubin Computing now and going forward for several years.

2 job openings posted R_005714, R_005716.

Deadline extended Sep 30, 2022

Have candidates for App Phys position, will start interviewing before deadline (this is ok, says HR).

We are having difficulty finding good applicants for the Comp. Phys Developer Position (perhaps not surprisingly) – we will try to reach out more on this one.

https://fermilab.wd5.myworkdayjobs.com/en-US/FermilabCareers/details/Rubin-Observatory-LSST-Computational-Physics-Developer_R_005714

https://fermilab.wd5.myworkdayjobs.com/en-US/FermilabCareers/details/Rubin-Observatory-LSST-Cosmological-Survey---Applications-Physicist-I_R_005716