12th November 2014

Meeting notes for Sims telecon, Oct 29 2014:

1-866-330-1200
5182287#

Attending: ajc, scott, rahul, michael, kevin, brittany, lynne, debbie, cathy, darko, jim, george

- An introduction to implementing SNe in the simulations (Rahul)
    - slides
    - distribution functions will be simple to start with and then expand
    - do we need to connect with opsim and MAF - yes
    - package SNE code in the photUtils - want to make it agnostic to catalogs so others can use functions outside of catsim
    - Rahul - light curve model goes -20 to +50 day as around maximum light
- How do we specify angles in the simulations. Should we use a specialized class (e.g afw's angle class) (Scott)
    - there are places in the code where we convert the angles into radians incorrectly (this code isn't used but could cause problems if we have to use it)
        - should we fix these issues, use an angle class, treat ra,dec as special and work to make them consistent?
        - many advantages with an angle class - disadvantage is we can't put this into numpy arrays
    - problem for MAF as well as catsim
    - George - uniform coordinate transformations and not just angle classes would be useful
        - transform position of the focal plane relative to the optical axis to understand a sensor position
        - have position of the sensor in the primary mirror system by translating from the sensor coordinate system
        - position sensor relative to raft, raft relative to the mirrors, etc
        - coordinates are known or assumed
    - CameraGeom - can transform within the camera from the focal plane to the pupil but nothing beyond
    - ACTION - can we vectorize an angle class to work with numpy operations, look at AstroPy, and PalPy (Scott)
    - ACTION - how much work to transform afw angles (or build something new) to work in 3D with more coordinate transformations

- Any last minute issues for next week (e.g. is the material ready for Michael)
    - Simon: eups, scons, build system
        - starter hack (make opsim installable with the LSST framework)
    - Lynne: agile development, pull requests (stash and git)
        - starter hack: creating the next sprint for opsim
    - Peter: Using maf
        - starter hack: use MAF to visualize observations on a single night (and maybe compare an early night to a late night that panics with filter changes)
    - Scott: Using catsim
        - starter hack: use Catsim to generate images
    - Cathy/Kem: Running opsim
        - starter hack: generating a way to configure large number of runs and persist the configurations
- AOB
    - ACTION - ajc to send round agenda