AMI SIM

pyami

drive_binary.py

- deltaX (-dx)
- deltaY (-dy)
- spectralType (-st)
- fluxRatio (-fr)
- oversample (-O)
- uptheramp (-utr)
- targetMagnitude
- totalElectrons
- filt

etc

NIRISSami_apt_calc_v3.py

generatePSF

simcode

make_binary

make_scene

driver_scene.py

- filter (-f)
- psf (-p)
- sky (-s)
- nint (-I)
- ngroups (-G)
- create_calibrator (-c)
- countrate (-cr)
- uptheramp (-utr)

drive_binary.py

1. generate PSF
2. generate star PSF
3. create calib star
4. calc dither positions
5. create binary
6. sim skydata (binary)
7. sim skydata (calib)

- star_array
- tcube{trials}{dither}.fits
- ccube{trials}{dither}.fits

generatePSF

- generate_starPSF

make_binary

- generate_starPSF

make_scene

- simulate_scenedata

driver_scene.py

1. load PSF data
2. load sky data
3. calc dither positions
4. simulate scene (data)
5. simulate scene (calib)

- t_{filename}{trials}{dither}.fits
- c_{filename}{trials}{dither}.fits