PyKOSMOS: A Python-Based Spectral Reduction Suite

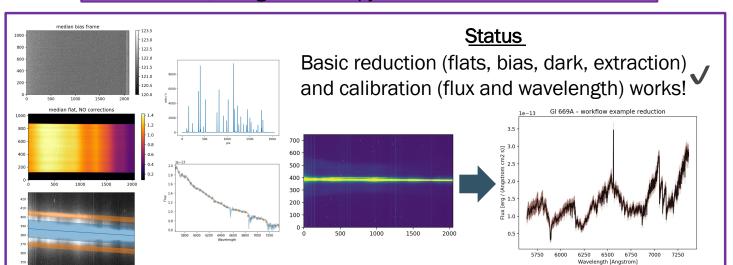
James R. A. Davenport (University of Washington & DiRAC) W



Project Goal

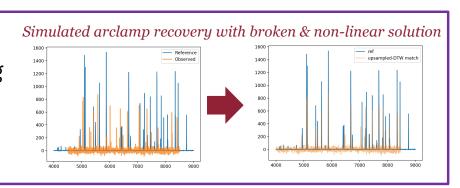
A reliable, well documented, easy to use, Python-based package capable of quick-look and basic spectral reduction.

Built on the "PyDIS" framework, based on traditional IRAF workflow, using new Astropy methods where available!



Currently Developing

Using Dynamic Time Warping to robustly & automatically solve wavelength solutions from arclamps!



Goals (Help Welcomed!)

- Build an archive of reference calibration data for DIS and KOSMOS
- Create real-time, hands-free reduction scripts (easy)
- Implement "optimal extraction" (medium)
- 2D wavelength solutions (hard)
- More test data to benchmark against
- Make pip installable

