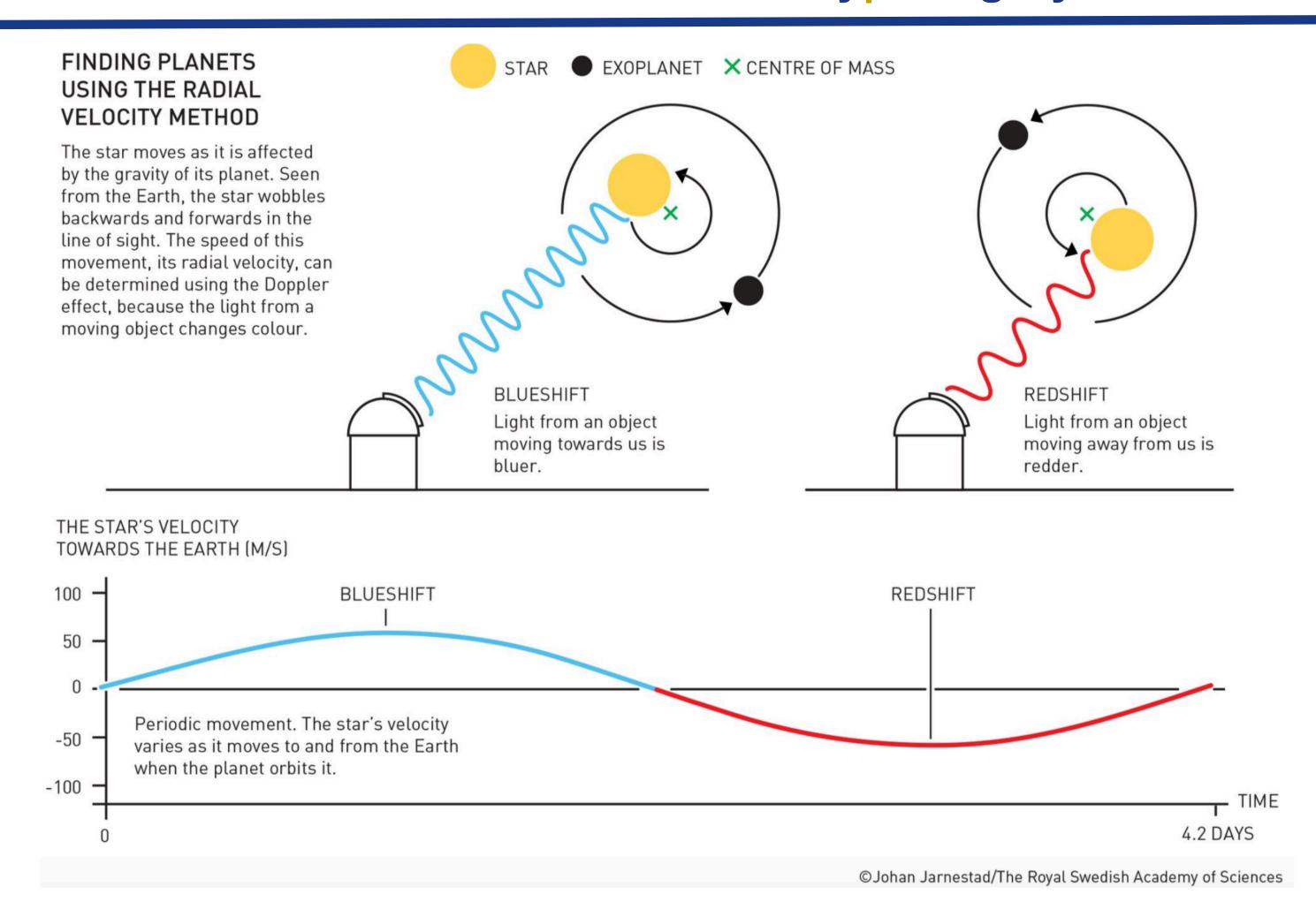


Rebecca Corley Gregory A. Feiden

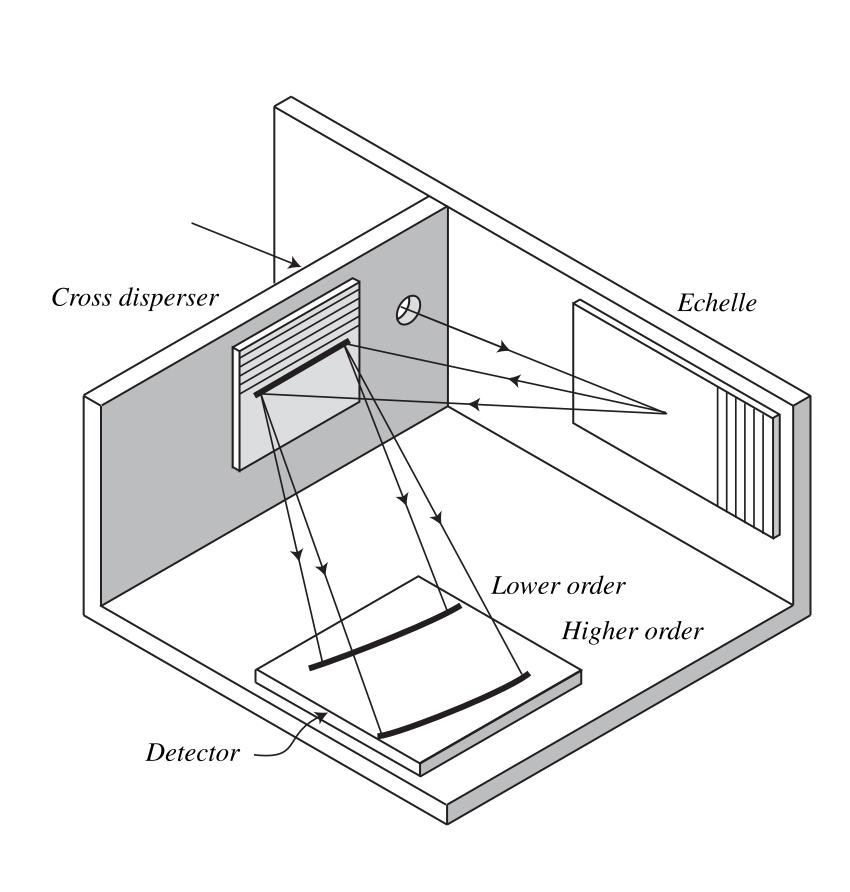
Motivation



A transiting exoplanet is a planet outside of our solar system whose orbital motion is oriented in such a way that Earth-based observers will see the planet periodically pass in front of the parent star, blocking a small fraction of the light from the star.

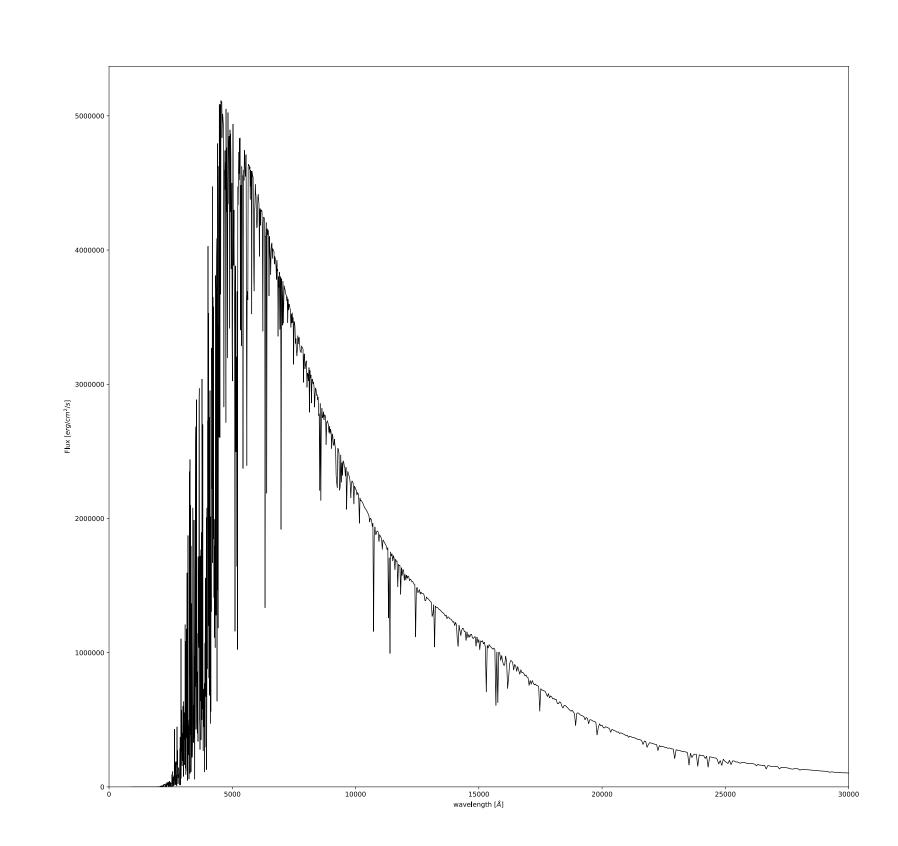


Échelle Spectrograph



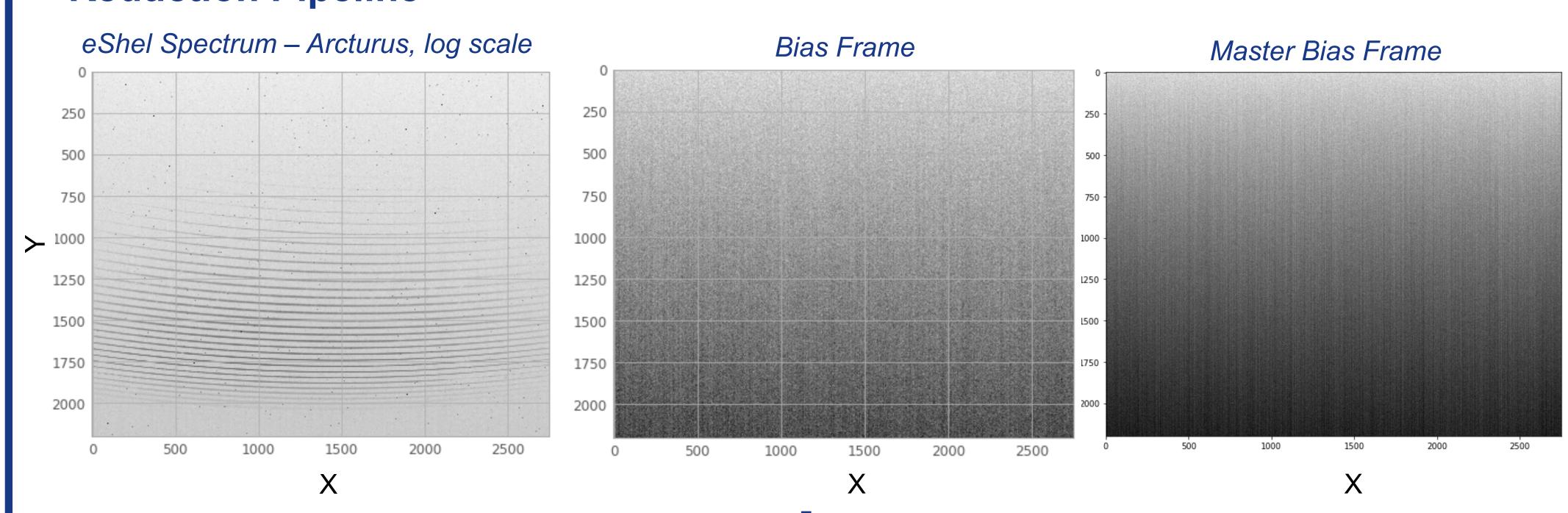
A spectrograph is an instrument used to obtain and and record astronomical spectrum by splitting or dispersing light from an object into its component wavelengths.

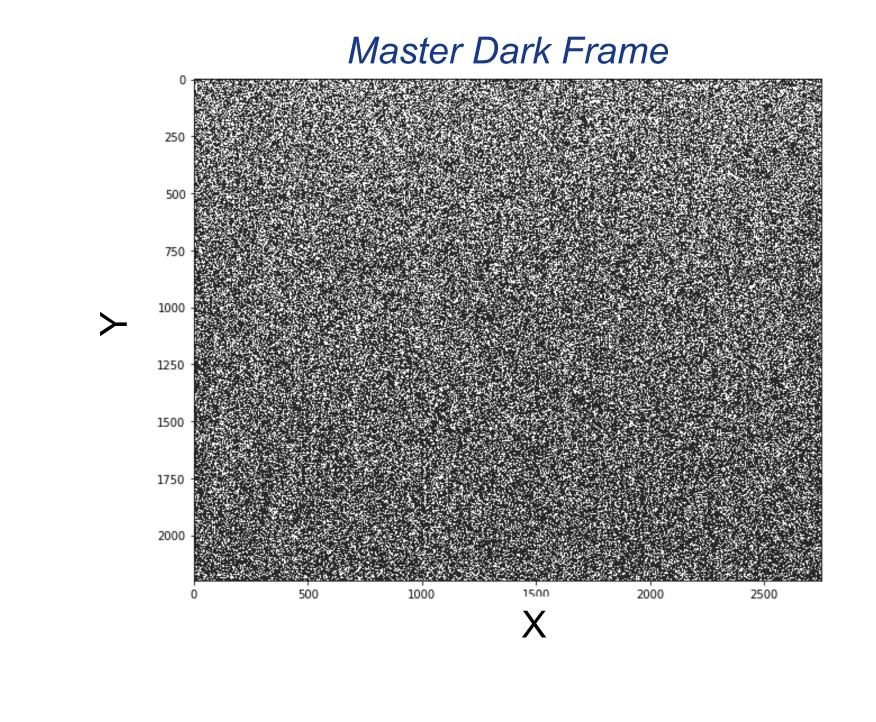
Future Work

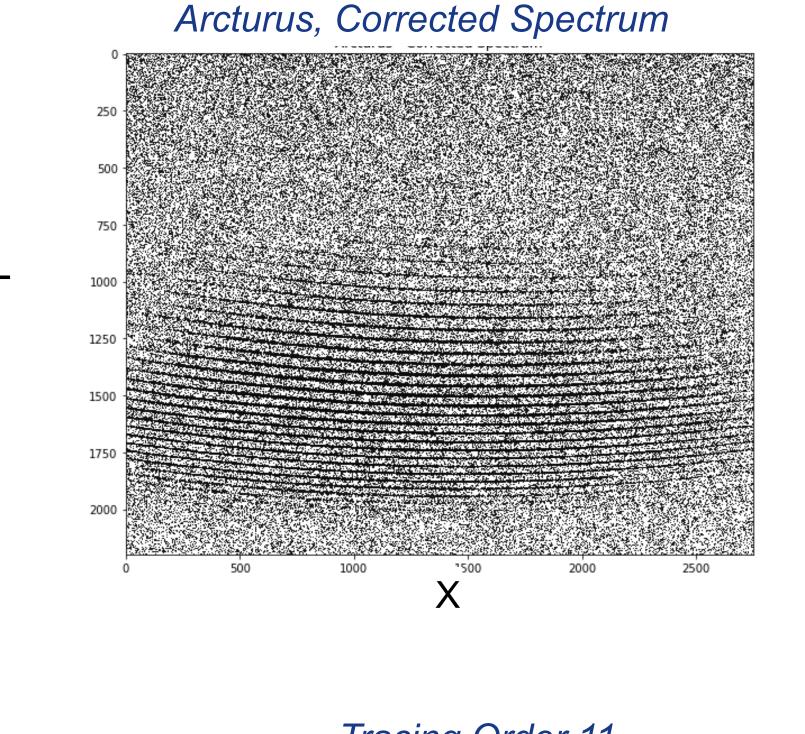


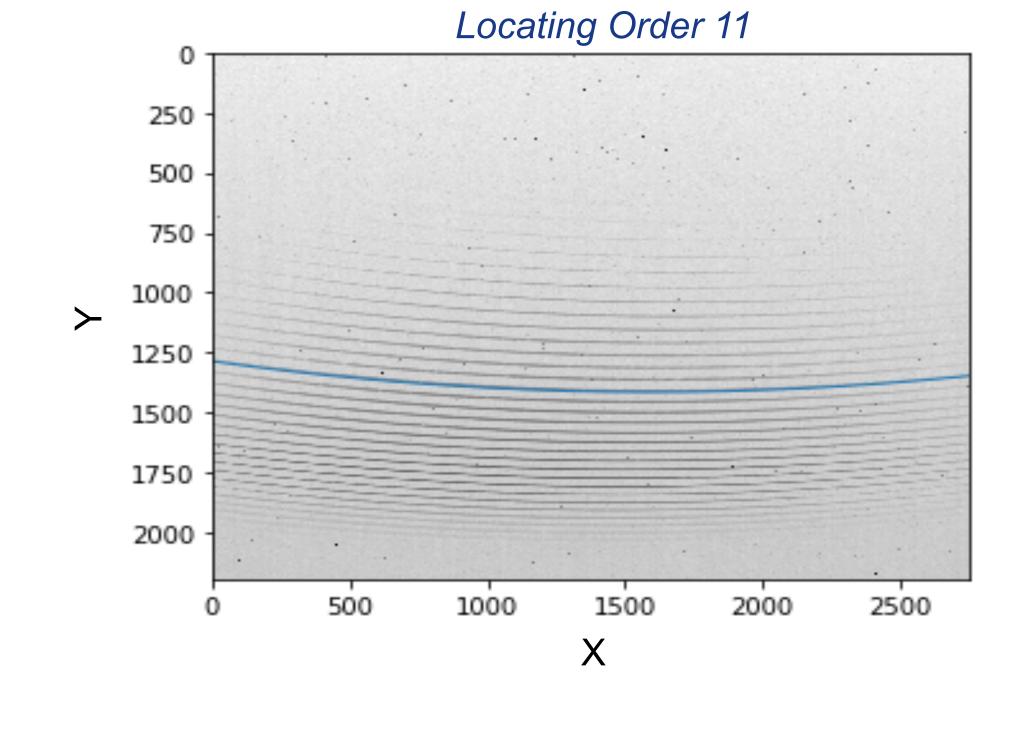
- Flat Field subtraction
- Wavelength calibration
- Radial velocity follow-up
- The data reduction pipeline will also be made publicly available to benefit the astronomy community for reuse and repurpose

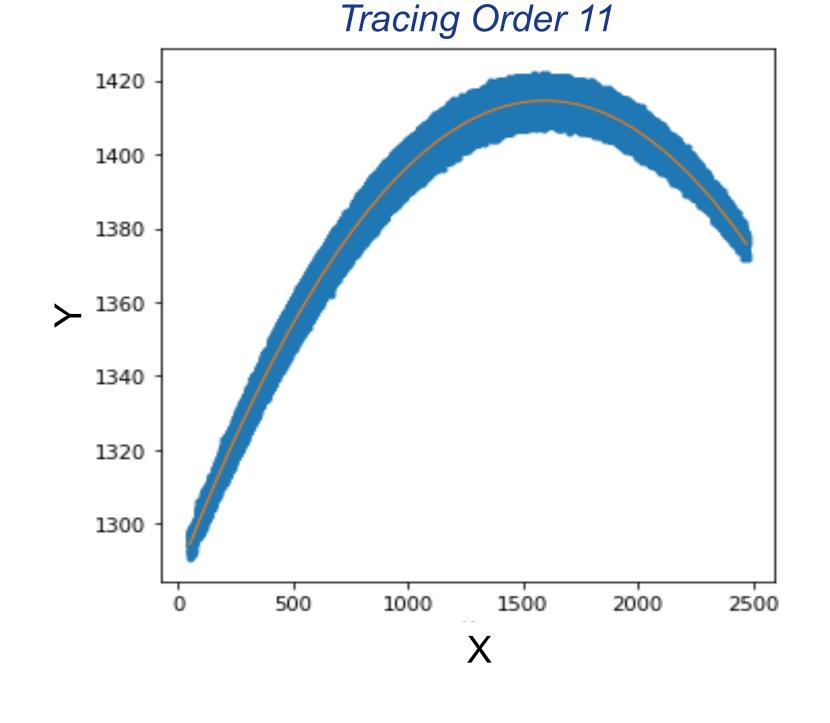
Reduction Pipeline

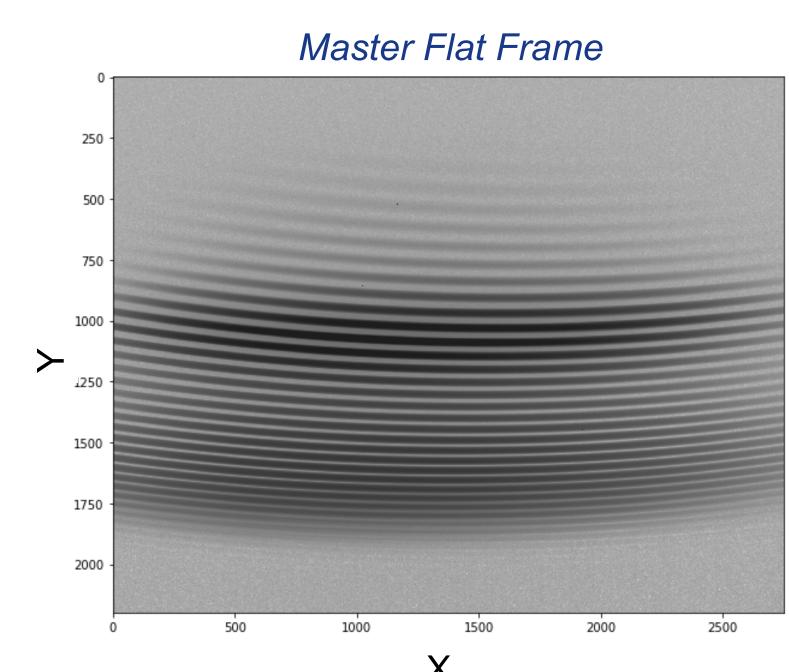


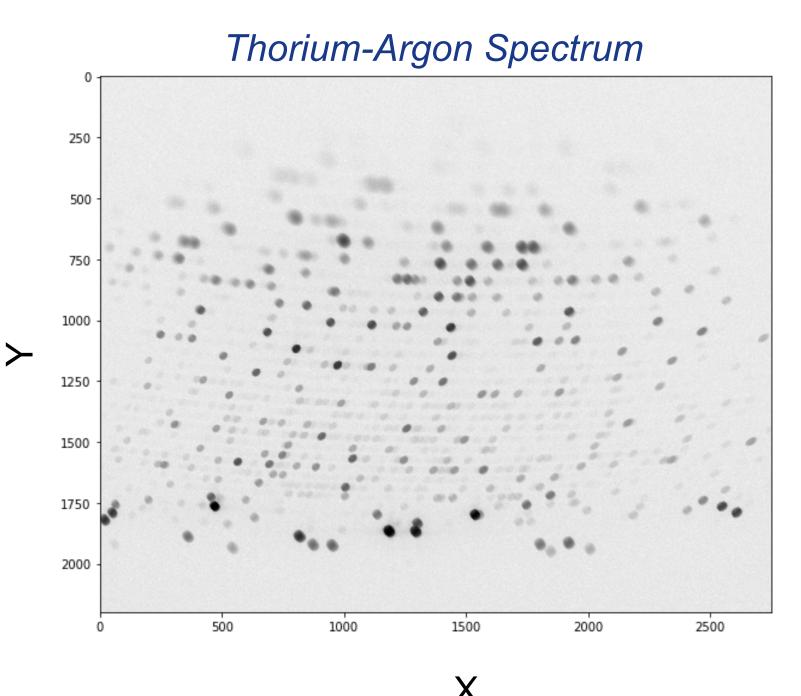












References & Acknowledgements

FUSE Program and their support on this project

Chromey, Frederick R. To Measure the Sky: an Introduction to Observational Astronomy. Cambridge University Press, 2017.