

Lab 12 - Diffraction Grating Processing with RSpec

Purpose

In Lab 12 we'll process data of fainter stars and objects, specifically targets imaged in Lab 11. Processing procedures using RSpec, are the same as ASTR 203 Lab 12 p.43-46.

For diffraction grating spectra, take numerous images (10-20) of each target, to combine in CCDStack. This yields a better signal-to-noise ratio http://en.wikipedia.org/wiki/Signal-to-noise_ratio with less background noise.

The main advantage of the diffraction grating filter is being able to gather spectra of fainter stars and objects, including galaxies and brighter comets.