

Section III -Spectroscopy

Procedure

Refer to, and review ASTR 203 Section III –Spectroscopy, p.35-46 for imaging procedures and types of spectroscopy targets. Basic imaging techniques with the SGS spectrograph and diffraction grating filter, and processing of spectra using Vspec and RSpec will be the same.

Objective

1) ASTR 204 Labs 9 and 10 involve imaging with the SGS to look at spectral types, and measure stellar radial velocities. http://en.wikipedia.org/wiki/Radial_velocity We will also do planetary imaging of Jupiter and Saturn as available, for analysis and measurement of rotational velocity.

2) Labs 11 and 12 involve the use of a diffraction grating to image fainter stars and targets of special interest including quasars, galaxies, comets, and Type 1a supernovae as available. Data and analysis of Uranus and Neptune are also possible. These target data are processed using RSpec.