

Physics 2060/4060
Observing Exercise 6

Spectrograph

Each individual should perform the following activities.

1. **Calibration spectra.** Obtain a calibration spectrum using the neon spectrum lamp. The image should be cropped such that it can be used by the “Spectra” program. Note that the spectral lines may be somewhat tilted.
2. **Measure Spectra of individual stars.** Obtain the spectrum of Sirius and Betelgeuse using the SBIG SGS spectrograph. Use the spectra program and the neon calibration spectrum to obtain Intensity vs. wavelength plots.
3. **(PHYS 4060 Students) Correct Spectra.** Use the provided excel spreadsheet to correct the spectra of Betelgeuse and Sirius for the wavelength dependence of the Quantum Efficiency of the SBIG ST-7 CCD camera.