

## **ASTR222**

### **Project 1, Due TBD based on weather, 2018**

For this project, you will write a lab report documenting the process. The questions below should be addressed in your lab report.

This project involves characterization of an instrument—determining its capabilities, and crafting a project around those specific capabilities. The class will be divided into four groups of 3-4 people, with each group assigned a different telescope/instrument pair. Each group will be provided with a copy of all relevant manuals for their instrument, as well as relevant web resources where available.

The task of this project is to create an observing project that uses the instrument to demonstrate an astronomical concept discussed in a typical intro class (e.g., ASTR105, 155, etc.). The following questions should be addressed:

1. What concept is being demonstrated?
2. What data are necessary to demonstrate the concept?
3. How does this project make use of the capabilities of the assigned instrument?
4. What are the most significant limitations of this instrument/telescope combination?

In addition to the lab report, please include any code that you wrote to complete the project, as well as the data files you collected (on a flash drive, Google drive, or somewhere in astro-land that I can access).

Schedule: Groups should meet in the first week of class to discuss observing projects. A brief description of that project should be turned in **no later than** November 5. Once I have reviewed them, we will schedule a time to discuss the feasibility of the proposals. Observations should be conducted throughout November as necessary. If observations cannot be completed by the first few days of December, we will have to discuss alternative plans.