

## Introduction to ASTR 110L Telescopes

### Read:

- Ridpath, pp. 385–392
- Telescope-related sections of your ASTR 110 textbook

1. Be able to identify the **following parts** of our lab telescopes and their functions:

**Base**

**Tube**

**Primary mirror**

**Secondary mirror**

**“Spider” (secondary mirror support)**

**Eyepiece**

**Focuser (knob)**

**Finder scope**

**Filters: Moon, Nebula, Red, Blue**

2. Know the following terms and their meanings:

**Reflector vs. Refractor telescope**

**Altazimuthal (Alt-Az) mount vs. Equatorial mount**

**resolution**

**seeing**

**aperture**

**limiting magnitude**

**averted vision**

3. What distinguishes a “**Dobsonian**” design from other telescope designs? Do Dobs have alt-az or equatorial mounts? Are our Dobs Newtonian reflectors?

4. On our “8-inch Dobsonian” telescopes, **which part** measures 8 inches? What advantages does an **8-inch** telescope have over, say, a **4-inch** telescope?

5. What does the **number of millimeters** printed on the side of our different **eyepieces** refer to? How is the **view** through a long-focal-length eyepiece (installed on the telescope) different from that through a short-focal-length eyepiece? (This is why we have an assortment of different focal lengths.)

