

Name: _____ NetID: _____

Date of Session: _____

Astronomy 210: Solar Observing Session Report

Purpose: To observe the surface features of the Sun using a telescope.

What NOT to do when you go:

Do *not* look at the Sun with your eyes directly! You can damage your eyes if you look at the Sun directly.

What to do when you go:

Attend a daytime observing session and complete this lab worksheet.

Rule: *You may ask the instructor for assistance with answering questions or discuss the questions with your classmates, but you must write your own responses in your own words.*

1. (a) What is the date and local time of your observations?

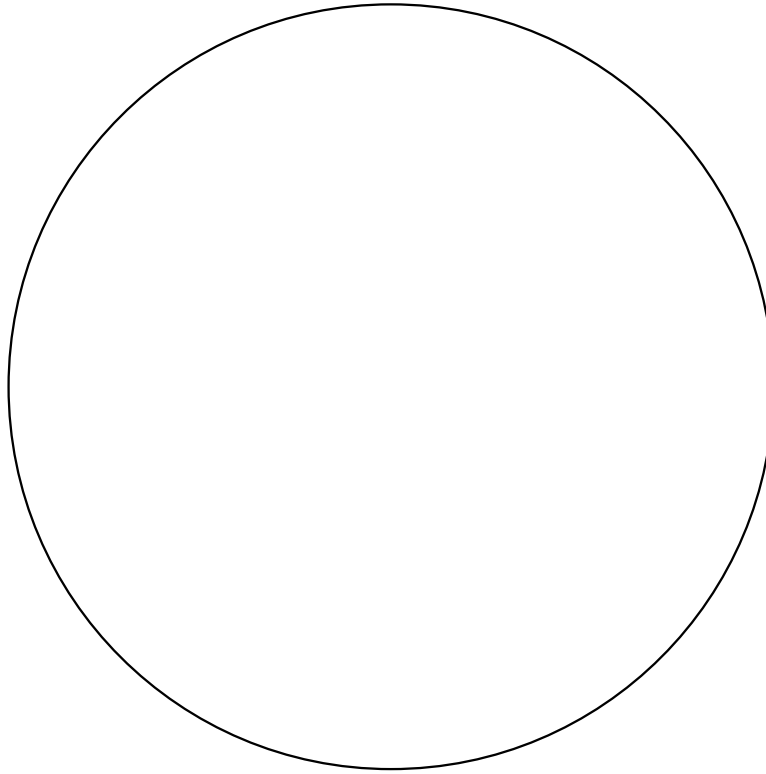
(b) What are the sky conditions (e.g., clear, partly cloudy)?

2. What is the Sun's location relative to the zenith (e.g., N, S, E, W)?

3. What is the Sun's altitude, Right Ascension, and Declination?

4. Are you using any filters in viewing the Sun? If so, what wavelengths does the filter allow to pass?

5. On the circle below draw and label the surface features that you observe on the Sun.



6. Briefly explain the causes of the surface features you observed.
7. As you look at the outermost part (“limb”) of the Sun, do you see a relatively sharp edge, or a relatively diffuse and gradual transition to darkness? Explain why. Ask the instructor about the effect of chromatic aberration.
8. Is the brightness uniform across the solar disk? Why or why not?