Independent Observing Project – Presentation

ASTR:1070 (Stars, Galaxies, and the Universe) Lab

Your independent observing project presentation represents 20% of your lab grade, and is done in class during the week of Apr. 29th.

Your presentation should be 6 – 8 minutes in length, and supported with helpful slides.

Your presentation should contain:

• Background related to your object

- Possible topics: historical discovery, when to observe it, what constellation it is in, could you
 observe it with your eyes, other names for the object, interesting discoveries recently made
 relating to the object, etc.
- This portion should include several citations from books or online sources¹ supporting the information you present.
- This information should be more than a list of facts it is your chance to convince your classmates that they should have studied your object instead.

Data Analysis

- o Explain the kind of data product you produced and how you produced it
- Your audience is your classmates you want to explain what you've done without the full "recipe" in MaxIm. This section shouldn't be any more than 30 90 seconds in length.

Data Product

- Show your data product and explain what it shows
- o Comparing this to other observations of your object is encouraged
- Connecting this to your background information presented is encouraged

• Calculation

- Acceptable calculations per object type are online and listed in Table 1.
- Calculation explanation should clearly explain each step, define any variables, and explain any relevant formulas.
- Cite any external information used to complete your calculation
- Contextualize your number is this fast/slow? Large/small? Hot/cold? How does it compare to other similar objects?
- o Think of this an opportunity to do a problem on the blackboard in front of the class like your instructor: explicitly state any assumptions you're making and show your work.

The presentation is performed as a group. **Each group member should take a turn presenting information to the class.** As your paper is submitted 1 week prior to your presentation date, any background or calculation done as part of your group's papers can be presented.

In addition, you should be prepared for 1-2 minutes of questions/answers following your 6-8 minute presentation. Polite asking of questions and engagement with your peer's work is also expected. Your group should ask a relevant question during 3 other presentations.

¹ Online sources must not include Wikipedia. Citations of articles outside Wikipedia are fair game, however. Online articles should meet standards for credibility, but do not have to be academic papers. Examples include: Popular Science, Sky & Telescope, NASA websites, etc.