Grading Rubric : ASTR400B Research Assignment 2

Name: [Figureido,Ethan Henry](https://github.com/Ethan-Figureido/ASTR-400B)

**A Introduction 9 / 10**

Each of the below points should be a separate paragraph in your introduction.

1. Define the Proposed Topic. 0/1
2. State why this topic matters to our understanding of galaxy evolution. 2/2
3. Overview our current understanding of the topic. 2/2
4. What are the open questions in the field? 2/2
5. Cite at least 3 journal papers. Use BibTex for formatting citations 1/1
6. Include at least one figure with caption from those papers to motivate your work. 2/2

**B. The Proposal 7/ 10**

They must answer each of the below questions as separate subsections.

1. What specific question(s) will you be addressing? 1/1
2. How will you approach the problem using the simulation data? Here you should outline the codes you’d need to write. It can be in general terms. 4/5
3. Include at least one figure that illustrates your methodology. 1/2
4. What is your hypothesis of what you will find? Why do you think this will occur? 2/2

**C. Misc. 5/5**

1. Proper Grammar 1/1
2. Included a bibliography 1/1
3. In Latex and ApJ/MNRAS formatting 2/2
4. On Time/On Github 1/1

**TOTAL** 22**/25**

**Late Penalty:**

* if submitted on due date, but after 5 PM  **(-5 points).**
* Proposals will **not be accepted** after the due date.

**Comments: -1: topic needs to be defined in intro first para. -1: need more details on how you will fit ellipses. The python library photutils can be used to do this and extract properties of the ellipse – talk to Himansh.**

**-1: a figure that directly illustrates your method (ellipse fitting or how you will define the halo radius) would be better. Splashback radius may not be the best choice for the edge of the halo. Virial radius might be a better choice as it is easier to define. Talk to us.**