Grading Rubric : ASTR400B Research Assignment 2

Name: [Joyce,Thomas Alexander](https://github.com/ThomasaturnV/ASTR400B)

**A Introduction 10/ 10**

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

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

**B. The Proposal 9 / 10**

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

1. What specific question(s) will you be addressing? /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. /2
4. What is your hypothesis of what you will find? Why do you think this will occur? /2

**C. Misc. 5/5**

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

**TOTAL** 24**/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: you can make a plot of angular momentum of various components as a function of time. When the galaxies merge, you may need to consider the combined angular momentum of the MW and M31 particles. In the merger remnant, consider all star particles (disk + bulge) together and all dark matter particles together. Talk to us. Reach out to Hayden Foote (**[**haydenfoote@arizona.edu**](mailto:haydenfoote@arizona.edu)**) to discuss your methods.**