Grading Rubric : ASTR400B Research Assignment 2

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**A Introduction 10 / 10**

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

1. Define the Proposed Topic. 1/1
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 10/ 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. 5/5
3. Include at least one figure that illustrates your methodology. 2/2
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** 25**/25**

**Late Penalty:**

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

**Comments:**

**Start with the Hernquist profile then you can consider other profiles if that doesn’t work / you have time.**

**You don’t have to compute the size of the halo for this project since the density profile is the main question. But if you have time you should do it! But consider R200 and Rvir virial radius only - splashback is harder to compute. Definition of Rvir is incomplete in your text - 360x the average dark matter density of the universe. We’ll define these quantities in later lectures, but see Himansh if you want to do this sooner than when we get to it.**