

# Propositum Study: Astronomia

Nomen Tuum

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Proposed Committee: Hypatia of Alexandria, Ibn al-Shatir, Sarah Ballard

## ABSTRACT

The purpose of this document is to provide a *guideline* for the content and length of a Research Exam Report. The Research Exam Proposal (REP) should be a **2-3 page** description of the intended research project and should include references to previous related literature. You should also **recommend 3-4 members** for your Research Exam Committee (REC; which is chaired by your advisor). **Members can be faculty, lecturers, or SAO scientists.** The document should be 10-12pt font, single space, one- or two-column format. This is equivalent to the AASTeX preprint or preprint2 formats. The abstract should:

- Clearly state what your proposed project will do.
- Describe why it is interesting
- A brief description of the data/methods that will be used to accomplish this.

Figures may be included as *necessary*, but they should be appropriately sized. Multiple large figures will not count towards page totals.

*Subject headings:* Lorem ipsum dolor

## 1. Introduction

The introduction should be about **1.5 pages** in length, describing the relevant science and literature background for your project. This is about 5-8 paragraphs. This should include previous studies. If there is an important aspect that needs to be introduced separately, it is acceptable to have multiple sections or subsections of introduction. Generally, the "Introduction" section has no subsections.

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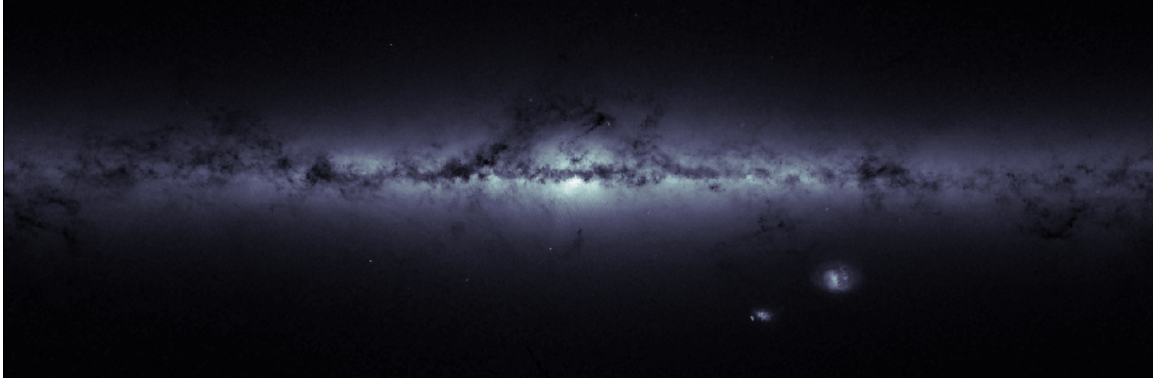


Fig. 1.— Figures should have useful captions that explain the content of the figure. This a stellar density map generated from the 2MASS catalog. The galactic disk is clearly visible, along with the SMC, and the LMC. The dark clouds reveal segments of the sky where the light from stars is blocked by dust, thus decreasing the stellar density in that direction.

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## 2. Additional Sections or subsections

There may be additional (sub)sections to describe in detail particular methods, objects, or previous studies that are key to your project. These would be topics that require more depth than a general literature survey or background. For example, you may want to discuss Arepo ([Springel 2010](#)), or the history/results of closely related studies on your object. Often this is just included in the introduction. Length will vary

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## 2.1. Chemistry of Astronomical Object

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## 2.2. MHD Modeling of Astronomical Object

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## 3. Proposed Study

This should be about **1.5 pages** in length. The following should be covered:

- Should briefly introduce the project in general terms and reinforce its significance.
- Describe in detail what your work will consist of
  - This may include bullet point goals
- Describe the methods and/or data that will be used
- If known, describe possible results, outcomes, or impact the project may have.

This section should end with a brief summary (or it can be a separate section) of your project, the outcomes, and why it is significant.



Fig. 2.— Here we see an example of a shock. Luke Skywalker has just learned that Darth Vader is his father.

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## REFERENCES

- Loeb, A. 2014, arXiv:1405.2954
- Randall, L., & Sundrum, R. 1999, Physical Review Letters, 83, 3370
- Schlegel, D. J., Finkbeiner, D. P., & Davis, M. 1998, ApJ, 500, 525
- Springel, V. 2010, MNRAS, 401, 791