

Sample Lab Report

Abstract

Modern scientific papers typically begin with a short abstract summarizing the entire project. This sample lab report includes all the elements present in a modern scientific paper, organized in a fashion appropriate for introductory astronomy lab reports.

Introduction

This sample lab report illustrates a suitable form for writing a scientific paper. The introduction presents a basic statement of the problem to be solved. It may be to test a hypothesis, explore some phenomenon or test new experimental techniques. The present "hypothesis" is that it is possible to illustrate how to write a lab report. The report begins with a **Title** giving a succinct, one-line identification of the project, the **Author** or **Authors** actually responsible for the report and the author's **Affiliation**, which in this case will include the course and lab section. For Astronomy labs, each student must write his or her own report. The body of the report should include an **Introduction**, a description of the **Procedure** (or **Measurements** or **Observations**), an **Analysis** (or **Results**) section, a section describing the **Error Analysis** and a **Discussion** or **Conclusions** section. There may also be an **Acknowledgements** paragraph, mentioning people who may have provided data or other help for the project. In most scientific papers there will be a list of **References** that may have been used in the preparation of the report. Finally, for Astronomy lab reports, the original **Data** pages should be attached to the report.

Procedure

The body of the report should begin with a systematic discussion of the project. The equipment should be described, and each observational or experimental or computational step should be discussed. A table or figure summarizing the data may be appropriate. It may not be necessary to include all of the data in this section, but the essential data used in the analysis section should be described completely. Figures or sketches of the instrumental setup or other illustrations are likely to be helpful.

After reading the procedure section, the reader should have a clear idea of what was actually done in the project. The goal of this section is to justify that the hypothesis described in the introduction has really been tested.

Analysis

Usually there will be a computational section or perhaps a discussion that brings together the pieces of the project to derive the final results. The results may be partly in the form

Example Abstract Lab Report

Didier Musso



Example Abstract Lab Report:

Example Abstract Lab Report Book Review: Unveiling the Power of Words

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