

My First LaTeX Document

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Abstract

In the abstract section you would put a brief (one paragraph) description of your project or experiment, and the main results.

1 Introduction

In the Introduction you would put your introductory remarks. You will introduce the project and give the reader some context for your study.

1.1 Subsection: Math

Including mathematics is easy.

$$\int_{-a}^{\infty} f(x)dx = F(a)$$

or you can do it like this for a numbered equation:

$$\oint_C \frac{dz}{z - z_0} = 2\pi i \tag{1}$$

$$\sum_{i=1}^{\infty} \frac{1}{n^2} = \frac{\pi^2}{6} \tag{2}$$

A numbered equation can be referred to or cited by giving it a label.

$$V(r) = \frac{\hbar^2 \ell(\ell + 1)}{2mr^2} - \frac{\hbar c \alpha}{r} \quad (3)$$

Somewhere in your text you may wish to refer to this equation. You don't need to know what Eq. number it is, just its label. Refer to it with the command `Eq. (3)` and LaTeX automatically uses the correct equation number, even if you go back and add more equations later. You will need to run latex twice, once to compute the equation numbers.

2 Tables

Suppose that you want to create a table showing your data. The syntax for a multicolumn table is found below.

Run 1	Output	Run 2	Output
1	37	1	28
2	42	2	35
3	73	3	19
4	15	4	22

3 Conclusions

In this section draw your conclusions and summarize your findings. Certainly from this short and simple document, we can see that LaTeX is tremendously powerful, easy, and FUN! There are many online tutorials and help pages on LaTeX. Simply enter `latex tutorial` or `introduction to latex` into Google and you will find lots of help.