

# A Simple L<sup>A</sup>T<sub>E</sub>X Document

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## Abstract

This is a simple example of a L<sup>A</sup>T<sub>E</sub>X document. It includes a title, an abstract, some sections, and a math equation.

## 1 Introduction

This document demonstrates the structure of a basic LaTeX file. You can create sections, add equations, and include figures.

## 2 Math Example

Here is an example of a mathematical equation:

$$E = mc^2$$

## 3 Conclusion

LaTeX is great for producing professional-looking documents, especially those that contain mathematics.

## 4 my physics

the law of rotation:

$$\sum_i F_{i\tau} r_i + \sum_i f_{i\tau} r_i = \left( \sum_i \Delta m_i r_i^2 \right) \beta \tag{1}$$