Sample LaTex Document

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1 Introduction to LaTex

This document is a sample LaTex document. It is meant to be a template latex document that you might find useful to scribe the lectures. It has an environment set up for writing theorems, lemmas, proofs, equations and such. As an example, here is the famous *Fermat's Last Theorem*

Theorem 1 *There are no positive integers such that $x^n + y^n = z^n$ for $n > 2$.*

Proof: [Fermat] I've found a remarkable proof of this fact, but there is not enough space in the margin [of the book] to write it. □

You can also write fancy equations with every imaginable symbol in LaTex. An example of what you could do in LaTex is the following equation:

$$E = 2\sum_{i=1}^{n} a_i \int_a^\infty f_i(x) g_i(x)\, dx$$

There are a whole lot of other interesting things you could make LaTex do for you. You might find the LaTex Manual by Leslie Lamport [1] quite a useful reference.

References

[1] Leslie Lamport. *LaTeX: A Documentation Preparation System, 2nd edition.* Addison-Wesley, 1994 .