THESIS TITLE

LAST, First

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Abstract

In this thesis, we prove that \ldots (English abstract)

摘要

在本论文中, 我们证明了 (中文摘要)

Acknowledgement

I am grateful to my supervisor Professor X.

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Introduction

1.1 Background

The study of A is motivated by B. It is important to study A.

1.2 Main results

Theorem 1.2.1. In this thesis, we prove that

$$e^{i\pi} + 1 = 0.$$

1.3 Structure of the thesis

In Chapter 2, we will make some necessary preparations. The proof of Theorem 1.2.1 will be given in Chapter 3.

Preliminaries

2.1 Notation

Here is table of basic notations.

\overline{X}	a compact metric space
\mathscr{B}	Borel σ -algebra
T	a continuous map from X to X
μ	a T -invariant Borel probability measure

Table 2.1: Table of notation

2.2 Definitions

Definition 2.2.1. Let X be a set. A function from X to Y is a mapping $f: X \to Y$.

2.3 Previous results

We include the following theorem, see e.g. [1].

Theorem 2.3.1. There are infinitely many primes.

Proof of main theorems

3.1 Lemmas

Lemma 3.1.1. If $a \leq b$ and $b \leq a$, then a = b.

3.2 Propositions

Proposition 3.2.1. The relation \leq is a partial order on \mathbb{R} .

Proof. It is readily checked that \leq is a preorder. Then the proof is completed by Lemma 3.1.1.

Applications

4.1 Examples

Example 4.1.1. Let $A \subset \mathbb{R}^2$ be an self-affine set.



Figure 4.1: The Barnsley fern is a self-affine set^1 .

¹This figure is generated using a notebook from zfengg/PlotIFS.jl.

Appendix A

Index of glossary terms

Bibliography

[1] G. H. Hardy and E. M. Wright. An introduction to the theory of numbers. Oxford University Press, Oxford, sixth edition, 2008. Revised by D. R. Heath-Brown and J. H. Silverman, With a foreword by Andrew Wiles. 3