Title of your thesis

Bachelor-Arbeit

zur Erlangung des Grades

Bachelor of Science (B.Sc.)

im Studiengang Mathematik

am Department Mathematik der
Friedrich-Alexander-Universität Erlangen-Nürnberg

vorgelegt am **31. März 2020**

von **Your Name**

Betreuer: Prof. A
Betreuer: Dr. B
Betreuer: MSc. C

FRIEDRICH-ALEXANDER
UNIVERSITÄT
ERLANGEN-NÜRNBERG
NATURWISSENSCHAFTLICHE
FAKULTÄT

Department
MATHEMATIK

1 The first Chapter

1.1 A

Let us begin with some basic definitions.

DEFINITION 1.1. *s*

We'll this obviously leads to the following.

THEOREM 1.2 (MUCH WOW RESULT). *I'm one heckin pretty result! You gotta admit that right?*
Look an equation

$$a^2 + b^2 = c^2.$$

Wow i have so much to say.

State what that would actually be!

1.2 B

Hello

1.3 C

This is pretty cool section.

Do you like lewis huey and the news?

2

How to do math with this template

This chapter is dedicated to the functionality of the template concearning its actual and inherent purpose: math.

2.1 Theorem and Definitions

In the following we will use some material from [] to showcase the possibilities. The package used for theorem numbering and styling is tcolorbox.

DEFINITION 2.1. *A mapping $\mu : 2^X \to [0, \infty]$ is called a* ***measure*** *on the nonempty set X provided*

(i) $\mu(\emptyset) = 0$ *and*

(ii) *if*

$$A \subset \bigcup_{k \in \mathbb{N}} A_k,$$

then

$$\mu(A) \leq \sum_{k \in \mathbb{N}} \mu(A_k).$$

We can refernence single items of a enumeration with the help of the enumitem package. For example concerning Definition 2.1 we can add the informtion that Item 2.1(ii) is called subadditivity.

THEOREM 2.2 (MUCH WOW RESULT). *I'm one heckin pretty result! You gotta admit that right?*
Look an equation

$$a^2 + b^2 = c^2.$$

Wow i have so much to say.

State what that would actually be!

2.2 B

Hello

2.3 C

This is pretty cool section.

Do you like lewis huey and the news?

Books

[1] L. C. Evans. *Measure Theory and Fine Properties of Functions, Revised Edition (Textbooks in Mathematics)*. Chapman und Hall/CRC, Apr. 2015.