Department of Mathematics
TUM School of Computation, Information and Technology
Technical University of Munich

TBD

TBD

Mohamed Noah Abdel Wahab

Thesis for the attainment of the academic degree

Master of Science

at the TUM School of Computation, Information and Technology of the Technical University of Munich

Supervisor:
Prof. Dr. Marco Cicalese

Advisor:
Dr. Fumihiko Onoue

Submitted:
Munich, Date of submission

I hereby declare that this thesis is entirely the result of my own work except where otherwise indicated. I have only used the resources given in the list of references.

Munich, Date of submission Mohamed Noah Abdel Wahab

Zusammenfassung

Eine kurze Zusammenfassung der Arbeit auf Deutsch.

Abstract

A brief abstract of this thesis in English.

Contents

1 Introduction

To use the LaTeX templates provided here you will need to add the directory `tum-templates` as a local package directory to your LaTeX distribution. An easy way to do this is by setting the environment variable `TEXINPUTS` to `.//:` on Linux/Mac systems and to `.//;` on a windows machine (meaning: search the current directory and its subdirectories for packages first, then use the usual search path). On a Linux or Mac you can compile this document to a PDF file in a terminal through the following commands (the first command needs to be issued only once):

```
export TEXINPUTS=.//:
pdflatex master
bibtex master
pdflatex master
```

On a windows computer, you would use the following commands in a terminal:

```
set TEXINPUTS=.//;
pdflatex master
bibtex master
pdflatex master
```

1.1 First Section of the Introduction

Hier folgt eine ausführliche Erklärung und Motivation. Insbesondere weisen wir auf den wunderbaren Artikel von Edmonds [2] und auf [4] für weitere Hintergründe.

1.2 Second Section of the Introduction

Wichtige Informationen finden sich in table 1.1.

Name	Place of Birth
Gauß	Braunschweig
Euler	Basel
Edmonds	Washington, D.C.

Table 1.1 A most wonderful table

1.2.1 A Lonesome Subsection

Eine ausführliche "Erklärung" findet der aufmerksame Leser in section 1.1.

1.3 Figure of a graph

huhfiusdbf iuhfui sdhfuihsduf sdiuhsd fiusdhf dsfiusdhf suisdfh dshiusdhf sdiuhsdf uidiu fdsf sdfsdknf fds oihfiwuehf udshfuidshf uidhf usdhf dshfisdufh hfds fiusdhf uihfu hsuifh iusdhf uisdhf sdhuifhsdiuhfusdhf

uhiufhuisdhf uihsduifh suihfusdhfuh iushdfuihsd uifhsduifsd fhsdiuf hsduifh uisdhuihsuidhfiu shfuihsdiu fhsdiufh sdifhsdiu fuisdhf hiu sduif sduifh dsfuidshf sdiufh iusdfhiusd fisudfh dsufihsdiuf sduifhsdui fhdsuifhsdui fsduifh sdiufh sdiufhsdiufh

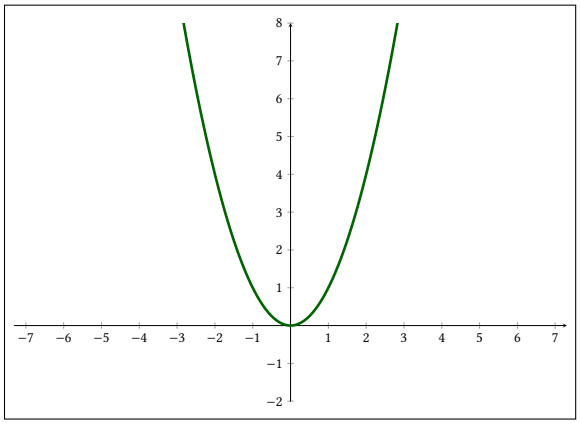

Figure 1.1 Test

huhfiusdbf iuhfui sdhfuihsduf sdiuhsd fiusdhf dsfiusdhf suisdfh dshiusdhf sdiuhsdf uidiu fdsf sdfsdknf fds oihfiwuehf udshfuidshf uidhf usdhf dshfisdufh hfds fiusdhf uihfu hsuifh iusdhf uisdhf sdhuifhsdiuhfusdhf uhiufhuisdhf uihsduifh suihfusdhfuh iushdfuihsd uifhsduifsd fhsdiuf hsduifh uisdhuihsuidhfiu shfuihsdiu fhsdiufh sdifhsdiu fuisdhf hiu sduif sduifh dsfuidshf sdiufh iusdfhiusd fisudfh dsufihsdiuf sduifhsdui fhdsuifhsdui fsduifh sdiufh sdiufhsdiufh

Hier geht es weiter mit dem Text.

2 Mathematical Foundations

2.1 Definitions

Definition 2.1.1 (Definitheit) *Hier definieren wir definitive Definitheit.*

Satz 2.1.2 (vom X) *War wohl nix. Es gilt aber*

$$\sum_{i=1}^{n} f_i(x) = \int \hat{f}(x)\,\mathrm{d}x$$

A Appendix

A.1 Supporting Data

A.2 Some Code Listings

List of Figures

List of Tables

Bibliography

[1] B. Alspach. “The wonderful Walecki construction”. In: *Bull. Inst. Combin. Appl* 52 (2008), pp. 7–20.

[2] J. Edmonds. “Paths, trees, and flowers”. In: *Canadian Journal of Mathematics* 17 (1965), pp. 449–467.

[3] D. Gale and L. S. Shapley. “College admissions and the stability of marriage”. In: *The American Mathematical Monthly* 69.1 (1962), pp. 9–15.

[4] M. R. Garey and D. S. Johnson. *Computers and Intractability*. WH Freeman & Co, 1979.