



Technische Universität München
Fakultät für Physik
(Lehrstuhl, Leiter, Arbeitsgruppe etc.)

Michael L.
Please translate this to english.

Detecting Thermal Phase Transitions in a Trapped Ion Quantum Computer*

Bachelor Thesis
by

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in fulfillment of the requirements for the degree of
Bachelor of Science

Supervised by

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Alexander Schuckert

First assessor: Prof. Dr. Michael Knap
Second assessor: Prof. Dr. David Egger

Topic: Quantum Many-Body Physics (Theory)

January 30, 2020

*September 14, 2020, Wir sollten uns nicht empören, dass andere die Wahrheit vorenthalten, wenn wir sie doch selbst so oft verschleiern. (please delete this immediately :P)

Michael L.
Please remove this immediately.

Abstract

Was ist schlecht? – Alles, was aus der Schwäche stammt. L^AT_EX class [sty](#)

Michael L.

Was aber
die Leute
gemeinlich
das Schick-
sal nennen
sind meis-
tens nur
Ihre eigenen
dummen
Streiche. [1]

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Introduction

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Theoretical Background

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Evaluation

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Experimental Setup Details

Appendix B.

Additional Measurement Data

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Unterstrichene Zahlen (`idxnumber(1)`) verweisen auf die Definition, fett hervorgehobene (`idxnumber`) geben Seiten der Erklärung zum jeweiligen Stichwort wieder und normal gedruckte verweisen hingegen auf Seiten mit zusätzlichen Informationen (Numbers underlined point to the definition; numbers written in boldface refer to the pages where the corresponding entry is described; all others indicate the places where it is used.).

L	class..... i
	sty i
	L
L ^A T _E X.....	i

Bibliography

- [1] Michael Labenbacher. *Erweiterung des T_EXbooks. Feineinstellungen*. VerlagX, 1984. ISBN: 3825856976. URL: www.labenbacher.at (visited on March 11, 1997) (cit. on p. [i](#)).

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Declaration of Authorship

I hereby declare this Bachelor's Thesis to be written exclusively by myself using the sources and facilities indicated. All direct or indirect sources used are specifically acknowledged as references at their point of use. This thesis was not presented to any other examination board before and has not been published previously.

Michael L.

La
Rouchefou-
cauld, Be-
trachtun-
gen oder
Moralische
Sentenzen
und Maxi-
men.



Labenbacher Michael

September 14, 2020

Acknowledgments

Es ist eine große Begabung, seine Begabung verbergen zu können.

Michael L.

Das Ge-
nie wohnt
nur eine
Etage höher
als der
Wahnsinn.