UNIVERSITY OF OSLO

COMPUTATIONAL PHYSICS

Project 1



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Computational Physics

Project number:

1

Hand-in deadline:

Monday 7 September, 2015

Project Members:

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Copies: ??
Page count: 7
Appendices: ??
Completed: ??

Synopsis:

The content of the report is freely available, but publication (with source) may only be made with the agreement of the authors.

PREFACE

This project is written by 6th semester physics group 4.207a at the Department of Physics and Nanotechnology at Aalborg University, Denmark, in the Spring semester, 2014, as a 10 ECTS-point bachelor project.

Reading Guide

Succeeding chapters support each other, and it is therefore recommended to read the report chronologically. When referring to equations or the like in the text, *equation* will be shortened Eq., *table* will be shortened Tab., and so forth. In App. ?? a list of frequently used symbols and constants are given. The external references used in this work appear in numbered order in brackets in the text and are listed in the bibliography at the end of the report in order of succession.

Signatures

The group member's signatures below express that the entire group is accountable for all aspects of the project and all chapters of the report.

Andreas V. Pedersen	Birgitte Madsen

TABLE OF CONTENTS

Chapter	1 Introduction	1
1.1	Nature of the problem	1
1.2	Description of the Algorithm	1
1.3	Source Code	1
Chapter	2 Results	3
2.1	Reliabilty and Numerical Stability of Results	3
2.2	Interpretation of Results	3
Chapter	3 Critique	5
Chapter	4 Conclusion	7

Introduction

Hello, we love computational physics!!

$$\sqrt{(2)} = \sin(\Theta + \phi \cdot 23)$$

- 1.1 Nature of the problem
- 1.2 Description of the Algorithm
- 1.3 Source Code

RESULTS

- 2.1 Reliabilty and Numerical Stability of Results
- 2.2 Interpretation of Results

CRITIQUE

CONCLUSION