

# Project 2 in FYS3150

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## 1 ABSTRACT

In this project we have coded a implementation of Jacobi's rotation algorithm, that finds an approximation to differential equations. We then then used this to model a harmonic oscillator problem in three dimensions, with one and two electrons.

## 2 INTRODUCTION

## 3 METHOD

3.a Mathematical basis

3.b Basic code, eller noe

3.c Testing the code

3.d Quantum dots in three dimensions, one electron

3.e Quantum dots in three dimensions, two electrons

## 4 RESULTS

## 5 CONCLUSIONS

## 6 REFERENCES