

FYS4150 - Computational Physics

Project 1

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1 Introduction

We will in this project solve the one-dimensional Poisson equation, given as

$$-u''(x) = f(x) \tag{1}$$

numerically, with Dirichlet boundary conditions by rewriting the Poisson equation to a set of linear equations.

2 Method

3 Implementation

4 Results

5 Conclusion