

# Assignment Lecture 7

## Quantum walk

Marten Teitsma

April 2, 2024

### Abstract

## 1 Introduction

Guidelines for this assignment:

- This exercise is done by a team of two students.
- The deadline for submitting the exercise is a week after the assignment is issued.
- You will create a Jupiter notebook for each exercise and hand in this notebook.
- In the notebook you will give ample comments on what you are doing and why.
- You will use Qiskit as a simulation tool.

## 2 Quantum walk

### 2.1 Exercise 1

Open the notebook and look for the  $6^{th}$  and  $8^{th}$  node in a 3 dimensional cube.