

Continuous Error Correction in Quantum Dot Qubits

Stasiu Wolanski, Jesus College

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Abstract

Woop!

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0.1 Introduction

Test cite [1]

Chapter 1

Background

1.1 Quantum error correction

1.1.1 Quantum computing

1.1.2 Error correction

1.1.3 Continuous error correction

1.2 Quantum Dot Qubits

1.2.1 Semiconductor Heterostructures

The Hubbard Model

Chapter 2

Theory

2.1 Rapidly repeated error correction schemes

2.2 Truly continuous error correction in quantum dot systems

Chapter 3

Methods

3.1 Simulating the hubbard model

3.2 Truly continuous error correction prototype

Chapter 4

Discussion

4.1 Conclusions

Bibliography

- [1] Albert Einstein. “Zur Elektrodynamik bewegter Körper. (German) [On the electrodynamics of moving bodies]”. In: *Annalen der Physik* 322.10 (1905), pp. 891–921. DOI: <http://dx.doi.org/10.1002/andp.19053221004>.

Appendices

Appendix A

Locked states