The Dynamics of the Spectrum by Quantum Walk Algorithm.

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Chapter 1

introduction

Quantum computing is one of the most promising emerging scientific and technological fields of the past decades. The theoretical computational advantages of quantum computing allow for valuable applications in fields such as cryptography, chemistry and machine learning. However, quantum computing is no straightforward task: the fundamental issue is to perform high-fidelity operations on a coherent, scalable set of qubits
This problem is highly relevant, as three percent of the world's energy output is spent on making fertilizer