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• The rules of quantum mechanics seem to permit “quantum teleportation” of information, spooky “action at a distance”, unbreakable encryption, and more. • Much of quantum computing deals with trying to deepen our intuition about quantum processes, and understand the limits imposed by Nature on “information” and computation.

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Quantum computing is a new approach to computation that has the possibility to revolutionize the field of computer science. The late Nobel Prize winning physicist Richard Feynman, who was interested in using a computer to simulate quantum systems, first investigated using quantum systems to do computation in 1982.

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An overview of quantum computing and in particular the Hidden Subgroup Problem (HSP) is presented from a mathematical viewpoint. Detailed proofs are supplied for many important results and notation is unified, making it easier to absorb the background necessary to begin research on the HSP. Some errors in previous proofs are corrected.

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QUANTUM CIRCUIT IDENTITIES CHRIS LOMONT Abstract. There are quantum circuit identities that simplify quantum circuits, reducing the effort needed physically to implement them. This paper constructs all identities made from 3 or fewer operations taken from a common set of one qubit operations, and explains how they may be used to simplify

*Introduction - Lomont*

Just as classical computing is based on classical physics, quantum computing is based on quantum physics: it exploits the "weirdness" of quantum physics - its probabilistic nature, and the phenomena of superposition and entanglement - in order to create machines far more powerful than the ones we're used to using in everyday life.

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In classical computing bits has two possible states either zero or one. In quantum computing, a qubit (short for "quantum bit") is a unit of quantum information—the quantum analogue to a classical bit. Qubits have special properties that help them solve complex problems much faster than classical bits.

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Quantum computers use actual quantum particles, artificial atoms, or collective properties of quantum particles as processing units, and are large, complex, and expensive devices. Harnessing the unique behavior of quantum physics and applying it to computing, quantum computers introduce new concepts to traditional programming methods, making use of quantum physics behaviors such as superposition, entanglement, and quantum interference. What can a quantum computer do?

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Finally, you will not only have an introduction to the topic but also to Microsoft Q the programming language used for quantum computing. The structure of the course The way this course is designed will help learn all the concepts that you need to be able to understand the basics of Quantum Computing.

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CHRIS LOMONT, CYBERNET Abstract. An overview of quantum computing and in particular the Hidden Subgroup Problem are presented from a mathematical viewpoint. Detailed proofs are supplied for many important results from the literature, and notation is unified, making it easier to absorb the background necessary to begin

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Introduction to Cultural Competence Hoshi was born and grew up in Japan. He has been living in the United States for nearly 20 years, going to graduate school and working as a systems analyst ...

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Introduction to Quantum Computing and Quantum Hardware About the Course This course is an introduction to the world of quantum computing, with an exploration of some of the key quantum algorithms and their implementations using quantum circuits, as well as the quantum hardware that is designed to run these algorithms.