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Quantum error correction codes - from qubit to

One solution to the problem is to apply quantum error correction codes (QECC), similar to classical error correction in communication and storage systems.

Quantum error correction - alcatel-lucent

Some of Bell Labs innovations in the field of quantum error correction include: Fundamental research in quantum information theory and quantum error correcting codes.

Quantum error correction

Quantum error correction Oct 17, 2010 #1. torichellim. 1. Publication in Nature Photonics: European researchers report a quantum error correcting code The magazine

Quantum error correction

Computers Product of n qubits $\{0,1\}^{2n}$ states $\{0,1\}^n$ Voltage on/off Product of n qubits 2^n dimensional Hilbert space C^{2^n} Electron spins, photon

Quantum error correction for beginners - abstract

Quantum error correction (QEC) and fault-tolerant quantum computation represent one of the most vital theoretical aspects of quantum information processing. It was

Daniel lidar's group | quantum error correction

Quantum error correction Quantum Annealing Correction for Random Ising Problems , Phys. Rev. A

Quantum error correction (book, 2013)

Get this from a library! Quantum error correction. [D A Lidar; Todd A Brun;]

Advance in quantum error correction - research &

May 25, 2015 Quantum computers are largely theoretical devices that could perform some computations exponentially faster than conventional computers can. Crucial to

Quantum error correction - wikipedia, the free

Quantum error correction is used in quantum computing to protect quantum information from errors due to decoherence and other quantum noise. Quantum error correction

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Target audience Students interested quantum computing and its emerging applications, including future mathematicians, electrical engineers and computer

Quantum error correction and fault tolerant

Quantum Error Correction and Fault Tolerant Quantum Computing [Frank Gaitan] on Amazon.com. *FREE* shipping on qualifying offers. It was once widely believed that

Qec14 - third international conference on quantum

Quantum error correction of decoherence and faulty control operations forms the backbone of all of quantum information processing. Despite remarkable progress on this

Quantum error correction: daniel a. lidar, todd

This work focuses on quantum error correction. It reviews various methods to control quantum errors and covers experimental and practical issues. Basic as well as

Title: quantum error correction codes - clarkson university

By Srabonti Ganguly. Advisor: Dr. Christino Tamon. Abstract. Quantum computation gained interest after Shor proved that factoring can be solved using a quantum algorithm.

Quantum error correction - springer

Keywords and Synonyms. Quantum error correcting codes; Quantum codes; Stabilizer codes

Quantum information processing and quantum error

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Quantum error correction - physics forums

The "standard model" of quantum error correction and how it leads to the requirements and definitions of quantum error correction codes. 2.

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A new computing protocol corrects virtually all errors in quantum memory, but requires little measure of quantum states.

Experimental repetitive quantum error correction

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2 Institut für Theoretische Physik, Universität

Quantum error- correcting codes - classical and

Correction of the errors caused by decoherence is one of the most challenging problems faced by quantum computing and quantum communication. Quantum systems are

Code advances quantum error correction -

May 25, 2015 Crucial to most designs for quantum computers is quantum error correction, which helps preserve the fragile quantum states on which quantum computation

Quantum error correction - cmu quantum theory

Quantum error correction was developed in analogy with classical error correcting codes, but in the quantum case one needs to add a number of clever tricks.

Quantum error correction - eecs @ university of

Quantum Issues No cloning $|i\rangle / |i\rangle |i\rangle |i\rangle$ Continuum of Errors e.g. $|0i\rangle + |1i\rangle |0i+ei\rangle |1i\rangle$ No Peeking!
Measurement can collapse

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Quantum error correction and fault-tolerance -

Quantum Error Correction . Building a quantum computer or a quantum communications device in the real world means having to deal with errors. Any qubit stored

[1302.3428] quantum error correction for quantum

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Wed, 20 Nov 2013 08:48:18 GMT (560kb,D) Mon, 17 Mar 2014 10:09:24 GMT

[0905.2794] quantum error correction for beginners

May 17, 2009 The introduction of quantum error correction in 1995 showed that active techniques could be employed to mitigate this fatal problem. However,

Quantum error correction - quantum physics and

Jian-Wei Pan Physikalisches Institut 05.07.2006 Uni-Heidelberg Correction for a long time Goal:keep the state for a very long time t Perform many measurements

Advance in quantum error correction - eurekaalert!

Protocol corrects virtually all errors in quantum memory, but requires little measure of quantum states.

Stabilizer code - wikipedia, the free encyclopedia

The theory of quantum error correction plays a prominent role in the practical realization and engineering of quantum computing and quantum communication devices.

Qec11: second international conference on quantum

The Second International Conference on Quantum Error Correction, hosted by the USC Center for Quantum Information Science & Technology (CQIST),

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