

# Quantum Error Correction

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## **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

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## **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

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

## **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.

## **Quantum information and error correction**

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

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

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

## **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

## **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),

## **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

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

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## **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

## **[1302.3428] quantum error correction for quantum**

Feb 13, 2013 Submission history From: Barbara M. Terhal Thu, 14 Feb 2013 15:20:12 GMT (560kb,D) Wed, 20 Nov 2013 08:48:18 GMT (560kb,D) Mon, 17 Mar 2014 10:09:24 GMT

## **Experimental repetitive quantum error correction**

1 Institut f r Experimentalphysik, Universit t Innsbruck, Technikerstra e 25, A-6020 Innsbruck, Austria.  
2 Institut f r Theoretische Physik, Universit t

## **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 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

## **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: 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

### **Quantum error correction - eecs @ university of**

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

### **Quantum error correction**

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

### **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 - 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

### **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

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

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