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Quantum computation,  
theory of The study of  
the model of  
computation in which  
the state space  
consists of linear  
superpositions of  
classical configurations

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and the computational steps consist of applying local unitary operators and measurements as permitted by quantum mechanics.

**Quantum computation, theory of - Encyclopedia of Mathematics**

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## **TQC: Theory of Quantum Computation, Communication, and**

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In quantum information theory, a quantum channel is a communication channel which can transmit quantum

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information, as well as classical information.

An example of quantum information is the state of a qubit. An example of classical information is a text document transmitted over the Internet.

## **Quantum channel - Wikipedia**

Quantum algorithm and Quantum complexity theory are one of the subjects in algorithm and



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Quantum computational complexity theory. In 1994, a mathematician Peter Shor published his prime factorization algorithm. If one has 1000- qubit quantum computer, one can threat most widely used ciphers such as RSA and ECC by Shor's algorithm.

### **Quantum information science - Wikipedia**

This book constitutes

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the thoroughly refereed post-conference proceedings of the 5th Conference on Theory of Quantum Computation, Communication, and Cryptography, TQC 2010, held in Leeds, UK, in April 2010. The 15 revised papers presented were carefully selected during two rounds of reviewing and improvement.

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theoretical aspects of  
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students and  
researchers working in  
the theoretical aspects  
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The scientific objective  
is to bring together the  
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advances in the field.

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laboratory in which the  
experiment was  
performed is also part  
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**New quantum  
paradox reveals  
contradiction  
between widely ...**

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Communication is a  
new form of  
communication carried  
out with qubits.  
Entanglement – a  
quantum feature in  
which qubits are  
spookishly entangled,  
even if separated –  
makes quantum...

**Major quantum  
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breakthrough is  
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introduction to the theory and practice of quantum computation. Topics covered include: physics of information processing, quantum logic, quantum algorithms including Shor's factoring algorithm and Grover's search algorithm, quantum error correction, quantum communication, and cryptography.

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## **Quantum Computation Communication And Cryptography** **Computation | MIT OpenCourseWare**

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have undergone a  
spurt of new growth,  
and a renewal of their  
historic connection to  
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