

Lectures On Quantum Information By Dagmar Bruss

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Course description: This two-term course covers quantum information theory, quantum

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algorithms, quantum error correction, quantum Shannon theory, and some special topics. Class meetings : Monday and Wednesday 2:30-3:55 in 107 Downs, beginning 2 October 2019. Instructor: John Preskill , 206 Annenberg, X-6691, email: preskill (at) caltech (dot) edu.

Ph219/CS219 Quantum Computation

Lecture 13: Quantum circuits Lecture 14: Reversible computing Lecture 15: Quantum cryptography (Guest lecture: Subhayan Roy Moulik [Oxford]) Lecture 16: Quantum query complexity Lecture 17: Deutsch's algorithm Lecture 18: The Deutsch-Jozsa algorithm Lecture 19: The Bernstein-Vazirani algorithm Lecture 20: Fourier analysis of Boolean functions & Fourier sampling Lecture 21: Grover ' s algorithm (Part I) Lecture 22: Grover ' s algorithm (Part II) Lecture 23: Simon ' s algorithm (Part I ...

CS419: Quantum Computing

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Lectures on Quantum Information - Dagmar Bruss, Gerd ...

Lectures on Quantum Information Editors: D. Bruss, G. Leuchs WILEY-VCH Verlag Berlin GmbH July 13, 2005

Lectures on Quantum Information

Quantum mechanics is one of the principle pillars of modern physics. It also remains a topic of great interest to mathematicians. Since its discovery it has inspired and been inspired by many topics within modern mathematics, including functional analysis and operator algebras, Lie groups, Lie algebras and their representations, principle bundles, distribution theory, and

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much more.

Lectures on Quantum Mechanics by Philip L. Bowers

Lectures on Quantum Information. Dagmar Bruss (Editor), Gerd Leuchs (Editor) ISBN: 978-3-527-40527-5. 634 pages. December 2006. View Most Recent Edition of This Title. Read an Excerpt . Description. Quantum Information Processing is a young and rapidly growing field of research at the intersection of physics, mathematics, and computer science. ...

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John Preskill, Richard P. Feynman Professor of Theoretical Physics at the California Institute of Technology, gave a lecture about Introduction to Quantum In...

John Preskill - Introduction to Quantum Information (Part ...

Published on Sep 10, 2018 In 2017 Reinhard Werner gave a series of lectures on the mathematical methods of quantum information theory at the Leibniz Universität Hannover. These lectures were...

Mathematical methods of quantum information theory, Lecture 1

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Lectures on Quantum Information by Dagmar Bruss: New PAP ...

Qubits and quantum information. Quantum information differs strongly from classical information, epitomized by the bit, in many striking and unfamiliar ways. While the fundamental unit of classical information is the bit, the most basic unit of quantum information is the qubit. Classical information is measured using Shannon entropy, while the quantum mechanical analogue is Von Neumann entropy.

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