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

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

## Lectures on Quantum Information

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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...

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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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