

PHYS 484 – 584 Quantum Computation and Quantum Information

Spring 2023

Schedule: Thursday 13:40 – 16:30, FENS L063

Zoom Meeting ID: 940 8614 1084

Passcode: 122336

Textbook: M. A. Nielsen and I. L. Chuang, Quantum Computation and Quantum Information, Cambridge University Press (2000). ISBN 978-1-107-00217-3.

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Grading

- Homework (1/3)
- Final (1/3)
- Project (1/3)

Important Dates

- Project Presentations: 25 May
- Final: TBA

Topics

- Introduction to quantum mechanics
- Quantum information
- Quantum cryptography
- Quantum computation
- Quantum algorithms
- Error and error correction
- Quantum computers