



4-Kurse

**Quantum Computing. Less
Formulas - More
Understanding**

**Physical Basics of Quantum
Computing**

**The Introduction to
Quantum Computing**

**One-way Quantum
Computation**



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hat die Online-Spezialisierung ohne Anrechnung erfolgreich abgeschlossen

Quantum Computing: from Basics to the Cutting Edge

In this specialization, the student will learn about the principles of quantum computing and how to put these principles into practice. As part of the first course, the student studies at a basic level with the idea of computing, with mathematical and physical principles that should be laid down in the construction of any model of quantum computing. In the second course, the student is introduced to the physical principles of quantum computing. The third course is devoted to a mathematical look at quantum computing models and the problems of quantum algorithms. The fourth specialization course focuses on an alternative model of quantum computing - one-way (measurement-based) quantum computing.

The online specialization named in this certificate may draw on material from courses taught on-campus, but the included courses are not equivalent to on-campus courses. Participation in this online specialization does not constitute enrollment at this university. This certificate does not confer a University grade, course credit or degree, and it does not verify the identity of the learner.

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