



Contribution ID: 0

Type: **Lecture**

## Quantum information and computation: foundations and current status - part 1

*Tuesday 9 October 2012 09:40 (1h 20m)*

In recent years we've seen the birth of an exciting new field known as quantum information (QI) theory. In these lectures I will introduce the basic concepts of QI, namely, qubits, quantum circuits, and quantum algorithms. I will also introduce some of the guiding problems of the field and describe recent applications of QI concepts to the study of strongly correlated physics.

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**Session Classification:** Morning Lecture 1