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Quantum information and foundations. Our research in quantum information and foundations spans a range of topics from the abstract to the concrete. On the one hand we are working towards a deeper understanding of the puzzling features of quantum theory such as indeterminacy, entanglement and non-locality. On the other, we are exploiting these fundamental ideas for information-processing tasks such as quantum cryptography and quantum computing.

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The book *Mathematical
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Mechanics* (1932) by John von
Neumann is an important
early work in the
development of quantum
theory.

*Mathematical Foundations of
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Since the publication of the
preceding book *Quantum
Information: An
Introduction*, there have
been tremendous strides in
the field of quantum
information. In particular,
the following topics - all

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of which are addressed here

– made seen major advances:

quantum state

discrimination, quantum

channel capacity, bipartite

and multipartite

entanglement, security

analysis on quantum

communication, reverse

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mechanics that share a great deal of conceptual and technical affinity.

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Information ...*

information security,
mathematics, quantum
mechanics and quantum
computing. We'll repeat it
many times: quantum physics
isn't about mathematics,
it's about the behaviour of
nature at its core. But
since mathematics is the
language of nature, it's
required to quantify the
prediction of quantum
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THE MATHEMATICS OF QUANTUM MECHANICS

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In physics and computer
science, quantum information
is the information of the
state of a quantum system.
It is the basic entity of
study in quantum information
theory, and can be
manipulated using quantum
information processing
techniques. Quantum
information refers to both

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the technical definition in terms of Von Neumann entropy and the general computational term. Quantum information, like classical information, can be processed using digital computers, transmitted from one location to another

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