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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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*Quantum information and
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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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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:
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discrimination, quantum
channel capacity, bipartite
and multipartite
entanglement, security
analysis on quantum
communication, reverse
Shannon theorem and
uncertainty relation.

*Quantum Information Theory -
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Authors: Ohya Masanori,

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Quantum set theory (QST) and
topos quantum theory (TQT)
are two long running
projects in the mathematical
foundations of quantum

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

Foundations of Quantum Mechanics and Quantum 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 mechanics. This present document has been ...

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THE MATHEMATICS OF QUANTUM MECHANICS

Staff supervising projects
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Dr Henning Bostelmann;
Rigorous quantum field
theory. Dr Roger Colbeck; I
am principally offering
projects in quantum
cryptography (in particular
device-independent
protocols) or quantum
foundations (understanding
cause in quantum theory).

*PhD Projects - Mathematics,
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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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