

Mathematical Foundations Of Quantum Information And Computation And Its Applications To Nano And Bio Systems Theoretical And Mathematical Physics

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Mathematical methods of quantum information theory, Lecture 1

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Abstract: The purpose of this paper is to survey some topics on mathematical foundations of quantum information developed mainly by the present author and co-workers for the last three decades. The topics include an axiomatic construction of quantum measurement theory based on completely positive map-valued measures, a universally valid new formulation of the uncertainty principle for error and disturbance in quantum measurements, the Wigner-Araki-Yanase limit of quantum measurements, the ...

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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.

Quantum information and foundations - Mathematics ...

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

Mathematical Foundations of Quantum Mechanics - Wikipedia

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 of which are addressed here – have seen major advances: quantum state discrimination, quantum channel capacity, bipartite and multipartite entanglement, security analysis on quantum communication, reverse Shannon theorem and uncertainty relation.

Quantum Information Theory - Mathematical Foundation ...

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

THE MATHEMATICS OF QUANTUM MECHANICS

Staff supervising projects in mathematical physics are: 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, University of York

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Mathematical Foundations of Quantum Information and ...

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 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