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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

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Mathematical Foundations of Quantum Information John Watrous

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Department of Computer Science University of Calgary.
Overview So far, we have been using a simple mathematical framework for discussing quantum information: In many situations that arise when studying

Mathematical Foundations of Quantum Information

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

Quantum Studies: Mathematics and Foundations promotes a deeper understanding of all fundamental aspects of quantum theory and bridges between theoretical questions, foundational issues, mathematical methods and the continuing evolution of quantum physics. The emphasis is on mathematical methods and insights that lead to better understanding of the paradoxical aspects of quantum physics and to its expansion into new domains.

Quantum Studies: Mathematics and Foundations | Home

Quantum foundations is the study of foundational questions related to quantum mechanics and quantum information theory. Some problems studied by researchers of quantum foundations are, for instance, the issue of the correct interpretation of quantum mechanics, the EPR paradox and the related area of quantum nonlocality and contextuality.

Quantum foundations - Wikipedia

That led him to earn an undergraduate degree in Mathematics and Physics at McGill University and later, a PhD in quantum physics from the University of Waterloo. Before starting his current position at IQC, Martin spent two years doing research at the Delft University of Technology in the Netherlands.

THE MATHEMATICS OF QUANTUM MECHANICS

The purpose of this paper is to survey mathematical foundations of quantum information. In particular, we discuss the most foundational aspect of quantum information centered at

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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 - Wikipedia

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.

Quantum information and foundations - Mathematics ...

Mathematical foundations of quantum information: Measurement and foundations ... Latex. To appear in the December 2014 issue of "Sugaku Expositions," American Mathematical Society.

Originally published in Japanese as: Masanao Ozawa, Mathematical Foundations of Quantum Information (in Japanese), Sugaku 61 (2), 113--132 (2009); doi:10.11429 ...

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Mathematical foundations of quantum information ...

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First and foremost, the advent of quantum information and computation (QIC) as a major field of study has breathed new life into basic quantum mechanics, asking new kinds of questions and making new demands on the theory, and at the same time reawakening interest in the foundations of quantum mechanics.

CATEGORICAL QUANTUM MECHANICS

The course presents some basic concepts and rigorous results of a new scientific discipline { quantum information theory. It starts with a thorough reconsideration of the mathematical foundations

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