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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

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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.

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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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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

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