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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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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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