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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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and multipartite  
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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

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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

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can be obtained by exploring the mathematical structure of quantum mechanics. It presents the theory of Hermitean operators and Hilbert spaces, providing the framework for transformation theory, and



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