Quantum information and the problem of time

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Abstract

Atlhough entanglement is an essential feature of many quantum information processing schemes, such as teleportation, the functional form of the process in many, including teleporttion, can be logically deduced from the properties of totally disentangled systems. This raises interesting questions concerning the nature of "quantum information", its "flow" and the nature of time in general. We present some speculations about these topics.