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of quantum mechanics are assessed in detail. It is argued that Zeilinger's (1999) Foundational Principle is unsuccessful as a foundational principle for quantum mechanics.

Quantum Information Theory and The Foundations of Quantum

theory of information and it follows that any probabilistic phenomenon has an associated information theory. This idea has been applied, for example, to statistical mechanics (Jaynes 1957a, 1957b). Quantum theory is a probabilistic theory, of course, and so it was inevitable that a quantum information theory would be developed.

Introduction to Quantum Information - Glasgow, Scotland, UK

Recently, quantum information theory has been developing through a fusion of results from various research fields. This requires that understanding of basic results on diverse topics, and derived from different disciplinary perspectives, is required for appreciating the overall picture.

Quantum Information - An Introduction | Masahito Hayashi

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1. Quantum mechanics is a linear theory: we can create linear superpositions of wave functions, provided we keep the probability amplitudes normalized. 2. The quantum measurement postulate can be described as the wave function collapsing to the basis state corresponding to the outcome of the experiment. 3.

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