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mechanics: As has been noted, quantum mechanics has been enormously successful in explaining microscopic phenomena in all branches of physics. The three phenomena described in this section are examples that demonstrate the quintessence of the theory. The kaon (also called the K^0 meson), discovered in 1947, is produced in high ...

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reactions (photosynthesis, cellular respiration) as well as enzymatic catalysis while proton tunnelling is a key factor in spontaneous mutation of DNA.

Quantum Kinetic Theory And Applications

The quantum theory of measurements

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and quantum information processing actively developing in the last decade are based on the quantum kinetic theory. Because a deductive theoretical exposition of the subject is not convenient, the authors restrict themselves to a lecture-style presentation.

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