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1: Overview of Time-Independent Quantum Mechanics

2: Introduction to Time-Dependent Quantum Mechanics
3: Time-Evolution Operator

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- 4: Irreversible Relaxation

- 5: The Density Matrix

- 6: Adiabatic Approximation

- 7: Interaction of Light and Matter
8: Mixed States and the Density Matrix

9: Irreversible and Random Processes

10: Time-Correlation Functions

11: Linear Response Theory
12: Time-domain Description of Spectroscopy

13: Coupling of Electronic and Nuclear Motion

14: Fluctuations in Spectroscopy

15: Energy and Charge Transfer
16: Quantum Relaxation Processes

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