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• 1: Overview of Time-Independent Quantum Mechanics

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

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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