

1 The Fundamental Concepts of Quantum Mechanics

1.1 Probability in Quantum Mechanics

With the birth of quantum mechanics, the wave-particle confusion of light came to an end. This new theory is fundamentally unpredictable and all we can do is compute probabilities of different outcomes. Even more fundamental was the discovery that laws of nature don't obey classical probability theory of Laplace.

1.2 The Uncertainty Principle

1.3 Probability in Quantum Mechanics

1.4 Interfering Alternatives

2 The Quantum Mechanical law of motion