

# Outline of Lecture 1: Optical Point of View

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- I. Geometrical Optics: Rays
  - A. Snell's law
  - B. Fermat's principle
  
- II. Physical Optics: Waves
  - A. Frequency, wavelength, wave equation concepts
  - B. Eikonal equation
  - C. Hamilton-Jacobi theory

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## III. Quantum Optics: Wave-particle interaction

A. Quantum mechanics

B. Path integrals