Outline of Lecture 1: Optical Point of View

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
Outline of Lecture 1: Optical Point of View

III. Quantum Optics: Wave-particle interaction
   A. Quantum mechanics
   B. Path integrals