

# The Optico-mechanical analogy: an axiomatic approach

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## Abstract

An axiomatization of a 'two-level Hamiltonian structure' is proposed, which expresses the optico-mechanical analogy by representing optics and mechanics as different classes of models satisfying the axioms.

**Keywords:** geometrical optics, analytical mechanics, axiomatics

**Subjects:** [Specific Sciences: Physics: Classical Physics](#)  
[General Issues: Structure of Theories](#)

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