

Unraveling the Particle World and the Cosmos at Berkeley—Workshop in Honor of Lawrence Hall and Hitoshi Murayama



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Fiat Lux: A Physics Survey Course Focusing on Light

I use the common phenomenon of light (electromagnetic radiation) to present a survey of modern physics. Five chapters are high-school level (how far is the moon, color perception, polarization), six are college level (Maxwell's equations, relativity, quantum, thermodynamics), and six are graduate level (Yang-Mills, cosmology, field theory, Feynman diagrams). The book covers only solidly established mainstream physics (except for chapter 17). It is available as a free PDF download, with embedded hyperlinks to Wikipedia.

Title

Abstract

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