

PHYS 1801

Electricity, Magnetism and Optics for Engineers

FW 2023

Professor Orchard

Monday April 1, 2024

YORK

The Nature of Light – Ch.34

- Before the 19th century, light was considered a stream of particles. (Newton's particle model was widely accepted.)
- However, another model, that light has wave properties, was proposed by Huygens in 1678.
- In 1901, Young provided the first clear experimental demonstration of the wave nature of light!
- In the early 20th century, additional experiments indicated that light also has a particle nature!
- Conclusion: Light has both a wave nature and a particle

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