



PHYS2902 Optics

[30h] 3 credits

This course is not taught in 2005-2006

This course is taught in the 2nd semester

Language: French

Level: Second cycle

Aims

This course aims to give a student a firm base for the practical part of wave optics and the quantitative treatment of diffraction and of the interferences in the context in modern optical instrumentation.

Main themes

General optics

Interference and diffraction

Fourier optics

Coherence

Holography

Other information (prerequisite, evaluation (assessment methods), course materials recommended readings, ...)

Prerequisites: PHYS 2263 A - Classical electromagnetism.

Support: Photocopies of handwritten course notes.

Other references: Hecht, Optics - Addison Wesley Born and Wolf, Principles of optics - Pergamon 1975.

The course is completed by demonstrations and practical work, that will be performed within laboratory of applied physics (PHYS 2905).

Other credits in programs

PHYS21/A	Première licence en sciences physiques (Physique appliquée) (3 credits)	Mandatory
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