

PHYS2902 Optics

[30h] 3 credits

This course is taught in the 2nd semester

| Teacher(s): | Philippe Antoine |
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| 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 perform within laboratory of applied physics (PHYS 2905).