



PHYS2901 Laser physics

[22.5h+15h exercises] 4 credits

This course is taught in the 1st semester

Teacher(s): Alain Cornet, André Fayt
Language: French
Level: Second cycle

Aims

To bring the student to a complete understanding of lasers and giving him a global view of existing lasers and their actual applications.

Main themes

1. The laser beam and laser optics
2. Line shape and width of transitions
3. The amplifying medium
4. Different types of lasers and their main applications

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

Prerequisites: 1st degree in physical sciences.

Support: Photocopies of handwritten course notes.

Openings: essential course for optics and electrooptics domains.

Other credits in programs

PHYS22/A Deuxième licence en sciences physiques (Physique appliquée) (4 credits)