



## PHYS2910 Analysis methods

[22.5h+15h exercises] 3.5 credits

This two-yearly course is taught in 2006-2007, 2008-2009,...

This course is taught in the 2nd semester

**Teacher(s):** Patrick Bertrand  
**Language:** French  
**Level:** Second cycle

### Aims

To initiate the student to new physical methods of solid surfaces and thin layer analysis.

### Main themes

The new physical methods of analysing surfaces and thin layers are based on irradiation of material by different types of particules: ions, electrons and photons. The course establishes a link between fundamental physics and the science of materials. The applications will be treated in different domains: microelectronic, catalysis, polymeres, thin layers, metallurgy, etc.

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

Prerequisites: basics in nuclear physics and solid state physics.

Support: Copy of overhead transparencies used during the course.

References: a bibliographic list is given to students. These books may be consulted.

The course will be enriched with demonstrations and lab manipulations.

### Other credits in programs

**PHYS22/A** Deuxième licence en sciences physiques (Physique appliquée) (3.5 credits)