



Faculté des sciences

SC

PHYS2290 Mécanique quantique

[30h+22.5h exercises] 6 credits

This course is taught in the 1st semester

Teacher(s): Jacques Weyers
Language: french
Level: 2nd cycle course

Aims

This course for students who already received an introduction to quantum ideas and to 1D wave mechanics will include a systematic exposition to non-relativist quantum mechanics, - who establishes it on strong but not too formal theoretical bases and - that offer a tool useful for the study of fields like atomic and molecular physics, nuclear and solid state physics.

Main themes

- Wave mechanics : principals, Schrödinger equation, example
- Quantum mechanics : principals; quantum dynamics, symmetry
- Disturbance theory

Other credits in programs

MATH22/E	Deuxième licence en sciences mathématiques (Economie mathématique)	(6 credits)	
MATH22/G	Deuxième licence en sciences mathématiques	(5 credits)	
MATH22/S	Deuxième licence en sciences mathématiques (Statistique)	(6 credits)	
PHYS21/A	Première licence en sciences physiques (Physique appliquée)	(6 credits)	Mandatory
PHYS21/G	Première licence en sciences physiques	(6 credits)	Mandatory
PHYS21/T	Première licence en sciences physiques (Physique de la terre, de l'espace et du climat)	(6 credits)	