

Introduction à la mécanique quantique

Lecturer

Serge MASSAR (Coordinator)

Course mnemonic

PHYS-F203

ECTS credits

5 credits

Language(s) of instruction

French

Course period

Second term

Astrophysique | 5 crédits and PHYS-F305 | Physique des particules et Physique Nucleaire | 5 crédits

Teaching method and learning activities

Oral course given on the blackboard.

References, bibliography and recommended reading

Mécanique Quantique Volumes I by Claude Cohen-Tannoudji, Bernard Diu, Franck Laloë

Other information

Contact(s)

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Evaluation method(s)

written examination

Evaluation method(s) (additional information)

written exam.

Main language(s) of evaluation

French

Programmes

Programmes proposing this course at the faculty of Sciences

BA-MATH | Bachelor in Mathematics | unit 3 and BA-PHYS | Bachelor in Physics | unit 2

Course content

Schrodinger equation, Dirac formalism, systems of dimension 2, harmonic oscillator.

Objectives (and/or specific learning outcomes)

Introduction to Quantum Mechanics.

Pre-requisites and co-requisites

Pre-requisites courses

MATH-F121 | Géométrie analytique et calcul matriciel | 5 crédits, MATH-F122 | Algèbre linéaire | 10 crédits, PHYS-F110 | Physique générale I et II | 15 crédits and PHYS-F110 | Physique générale I et II | 20 crédits

Courses having this one as pre-requisit

MATH-F314 | Mathématiques pour la physique | 10 crédits, PHYS-F302 | Mécanique quantique | 10 crédits, PHYS-F303 | Physique statistique | 10 crédits, PHYS-F304 | Spectrophysique et