



Faculté des sciences

SC

PHYS2400 Physique de la haute atmosphère et de l'espace

[22.5h] 4 credits

This course is taught in the 2nd semester

Teacher(s): Viviane Pierrard, René Warnant
Language: french
Level: 2nd cycle course

Aims

Introduction to electrodynamics of ionised fields and to plasma physics with applications to geophysics and astrophysics.

Main themes

The course is an introduction to Plasma physics. Fundamental notions of completely ionised gas physics are given in this course. Geophysical and spatial physics applications illustrate each of the basic notions. These applications are chosen to give to students a global view of the main phenomena that govern the Sun-Earth relation. The solar and terrestrial notions are placed in historical context. Mathematical and numerical formulations are exposed.

Other credits in programs

MATR23	Troisième année du programme conduisant au grade d'ingénieur civil en science des matériaux	(4 credits)
PHYS21/T	Première licence en sciences physiques (Physique de la terre, de l'espace et du climat)	(4 credits)
PHYS22/G	Deuxième licence en sciences physiques	(4 credits)