

UE Relativity - PHY433 -



ECTS
3 crédits



Crédits ECTS
Echange
3.0



Composante
Département
de la licence
sciences et
technologies
(DLST)



Période de
l'année
Printemps (janv.
à avril/mai)

Diplômes intégrant cet élément

- Licence Physique

- Langue(s) d'enseignement: Français, Anglais
- Ouvert aux étudiants en échange: Oui
- Crédits ECTS Echange: 3.0

Présentation

Description

Course of relativity.

The theory of relativity will be constructed based on experimental observation that the speed of light is absolute and no longer the time.

It will be shown that this implies a complete review of the notion of space and time and that it allows to build a new entity – space-time – endowed with a distance.

It will be also shown that in this new context, kinematic and dynamic quantities such as energy and momentum must be redefined.

The relation between the energy at rest and the mass of an object will be established and it will be shown that one can describe reactions which use energy to create matter and vice versa.

Période : Semestre 4

Infos pratiques

Campus

➤ Grenoble - Domaine universitaire