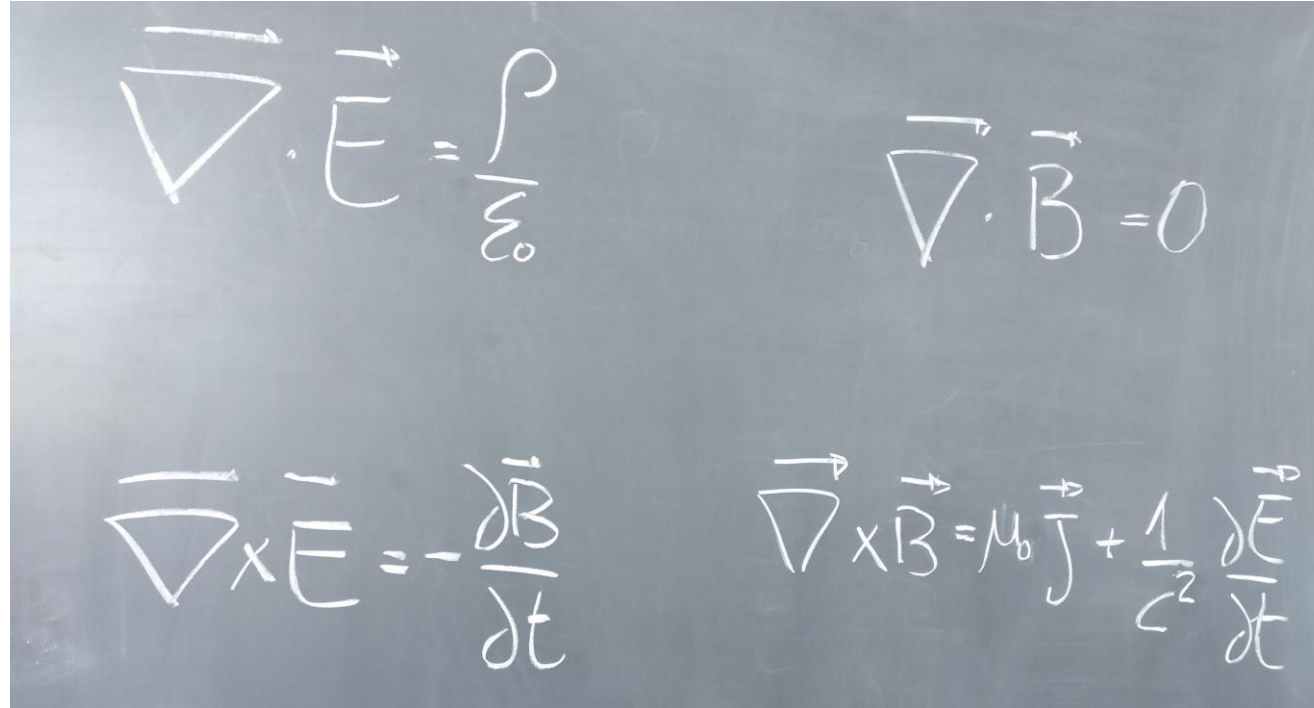


PHYS-114 : Electromagnétisme



The image shows a chalkboard with four Maxwell equations written in white chalk. The equations are arranged in two rows. The top row contains the divergence of the electric field and the divergence of the magnetic field. The bottom row contains the curl of the electric field and the curl of the magnetic field. All vectors are denoted with arrows above them.

$$\vec{\nabla} \cdot \vec{E} = \frac{\rho}{\epsilon_0} \qquad \vec{\nabla} \cdot \vec{B} = 0$$
$$\vec{\nabla} \times \vec{E} = -\frac{\partial \vec{B}}{\partial t} \qquad \vec{\nabla} \times \vec{B} = \mu_0 \vec{J} + \frac{1}{c^2} \frac{\partial \vec{E}}{\partial t}$$

PHYS-114: l'équipe

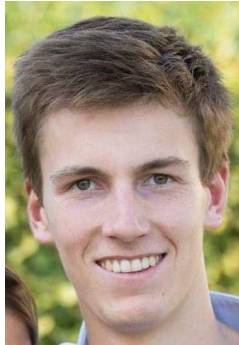
- Assistant principale: F. Braunmuller



- Assistants doctorants (ADs)



Marta
Pedrini



Cyrille
Sepulchre



Margot
Coste-Sarguet



Guillaume
Var Parys



Nicole
Vadot

- Assistants étudiants (AEs)



Elie



David



Fedor



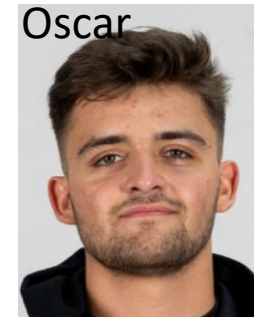
Goktug



Paul



Ricardo



Oscar



Yannik

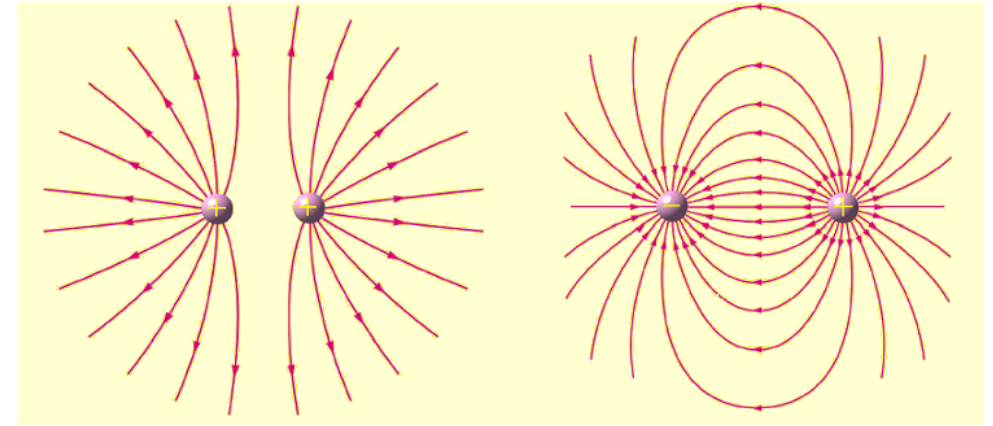
PHYS-114: Infos pratiques

- Moodle: <https://moodle.epfl.ch/course/view.php?id=16627>
- eD: pour questions / discussion
- Text ref: Giancoli + Notes Prof. Fasoli
- Groupes d'exercices (jeudi 17h15-19h): faites votre choix!
- Test mid-semester écrit (ne compte pas pour note finale)
- 2 semaines révision / exercices
- Examen écrit finale

Semaine 1 (10-09-2024)

Charge électrique et champ électrique

- 1.1 - Echelles spatiales et forces fondamentales
- 1.2 - Equations de Maxwell
- 1.3 - Introduction à l'électrostatique : la charge et l'induction électrostatique
- 1.4 - La loi de Coulomb
- 1.5 - Principe de superposition et distribution de charges
- 1.6 - La structure de la matière



<http://commons.wikimedia.org/wiki/User:Chanchocan>

RESPECT

