

# Forum:Seminar papers/Biophysics/2. LF/2012-2013/Group 3

Group 3:

## Physiological effect of electric current and electromagnetic fields

### Subquestions

- Physiological effect of electric current (positive and negative effects, factors influencing these effects)
- Therapeutic application of electric current:
  - Electrotherapy
  - Iontophoresis
  - Electrostimulation
  - High frequency electrosurgery
- Interactions of electromagnetic fields with living matter
- Physiological effect of electromagnetic fields
- Magnetotherapy

## Electromagnetic ionizing radiation

### Subquestions

- Ionization (and mechanisms leading to it)
- X-rays characteristics (physical nature, spectral band, generation mechanism)
- Compton's effect (what is and what does it confirm)
- Gamma-rays characteristics (physical nature, spectral band, generation mechanism)
- Lambert's-Beer law (absorption, half-value layer)

### Responsibility for the page content

Every subquestion should be developed by one or two students. First, type the subquestions and the name of students in the following table:

<b>Subquestion</b> (Link to the subquestion)	<b>Developed by</b> username (First_name Surname)
Physiological effect of electric current	User:AnaRamos (Ana Sofia Ramos), User:CatarinaVieira (Catarina Vieira)
Therapeutic application of electric current	User:Pedro (Pedro Catarro)
Electrotherapy	User:Meison (Meison Furtado)
Iontophoresis	User:Nuno Guedelha (Nuno Guedelha)
Electrostimulation	User:jmrs1993 (João Santos)
High frequency electrosurgery	User:ineshartleyalex (Inês Hartley Alexandre), User:TeresaMelo (Teresa Manuel Melo dos Santos)
Interactions of electromagnetic fields with living matter	User:JPRamos (João Pedro Ramos Pedro)
Physiological effect of electromagnetic fields	User:Alqahtani (mahdi alqahtani)
Magnetotherapy	User:Alsayegh (Ayman Alsayegh)
Ionization	User:Ana Palhau (Ana Palhau), User:Mfranciscabatista (Maria Francisca Batista)
X-rays characteristics	User:JProenca (José Proença), User:Isacordeiro (Isa Cordeiro)
Compton's effect	User:Danitosco (Daniel Toscano)
Gamma-rays characteristics	User:CaetanaPoole (Maria Caetana Poole da Costa)
Lambert's-Beer law	User:Balsabban (Badr Alsbban)

### Developing subquestions

Click on your red coloured subquestion on the table above. The appropriate edit window will be opened and you will start creating the content.

