

Université de Strasbourg (F)
Kiepenheuer Institut für Sonnenphysik (D)
<http://esc.u-strasbg.fr/>



July 5-11, 2015
Strasbourg, France



Light !

European Summer School in physics
For students having completed at least 3 years of university studies

An introduction to some of the amazing properties of light, and their use.

Topics :

- ★ Properties of light in the quantum world and in the large scale universe.
- ★ Light as a messenger : Nobel Prize winning techniques for microscopy, what spectra and polarization tell us about stars, how to explore matter with ultrafast lasers...
- ★ The interactions between light and matter : atmospheric phenomena, how to manipulate light with plasmons, Nobel Prize winning LEDs...

Welcome to the 2015 European Summer School in physics



INTERNATIONAL
YEAR OF LIGHT
2015

Ulrich Goerlach
IPHC & Faculty of physics & engineering

Ariane Lançon
Observatoire astronomique de Strasbourg





You are in one of the buildings of the **Faculty of physics & engineering** of **Strasbourg University**.

With more than 40,000 students year, Strasbourg university is one of the largest universities in France.

Dr. Joern Pütz

(molecular biology, bioinformatics)

Deputy Vice-president of Strasbourg University

French-German relationships



The **Faculty of physics and engineering** is responsible for about 800 students, and about 250 PhD students.

It is associated with several major laboratories – in all over 700 scientists:

- IPCMS (Institut de physique et de chimie des matériaux de Strasbourg - Material sciences)
- IPHC (Institut pluridisciplinaire Hubert Curien – interfaces between physics, chemistry and biology, subatomic physics, instrumentation)
- ICS (Institut Charles Sadron - polymer sciences)
- ICube (Environmental science, scientific imaging, scientific computation)

Pr. Abdel-Mjid Nourreddine

(nuclear physics)

Director of the Faculty of physics and engineering



The European Summer School 2015 is organized jointly with the **Kiepenheuer Institut für Sonnenphysik** (KIS, Freiburg, Germany) and the **Strasbourg astronomical observatory**.

Pr. Oskar von der Lühe

(solar astrophysics)

Director of the Kiepenheuer Institut für Sonnenphysik

[Thursday]

Dr. Hervé Wozniak

(galaxy astrophysics)

Director of the Observatoire astronomique de Strasbourg

[Wednesday]

This Summer School would not have taken place without support from :



Université
franco-allemande
Deutsch-Französische
Hochschule



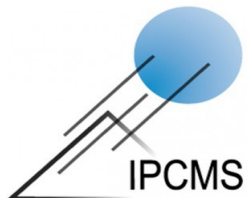
Physique
et
Ingénierie



Observatoire astronomique
de Strasbourg



UNIVERSITÉ DE STRASBOURG





We also thank

The secretary of the Summer School : [Monique Dell](#)

With help from : Véronique Trimbour

Sandrine Langenbacher, Céline Halter (poster)

Members of the organizing committee in Strasbourg and Freiburg :

Pierre Gilliot, Thierry Charitat, Sylvain Lecler, Nicolas Javahiraly, Cyriaque Genet,
Iwona Mochol, Fabien Grisé,
Oskar von der Lühe, Svetlana Berdyugina,
Nicolas Fabas, Nadine Afram

And with support for the logistics from the Faculty of physics and engineering, and from the Strasbourg astronomical observatory.



Scientific Programme of the week

- **Lectures** organized around four topics :
 - Specific aspects of the nature of light (quantum properties, relativistic properties)
 - Interactions between light and matter
 - Light as a messenger
 - Manipulating light
- **Workshops**
- **Poster session**
- **Day at KIS and visit of the Schauinsland Observatory**

PLEASE DO ASK QUESTIONS !!!

Don't be afraid to speak incorrect English

You come from many countries with many nationalities -

Cultural and Social Programme



An important part of the Summer School!

Learn about other countries from the participants

Learn about Alsace

And use the (little) free time to explore Strasbourg

