

# XTRA Summer School

“Ultra short XUV pulses for time-resolved and non-linear applications”

25-28 May 2005, Porquerolles Island (France).

## First announcement



The summer school of the XTRA European network will be held from May 25<sup>th</sup>, 2005 to May 28<sup>th</sup> in the Porquerolles Island, France (arrival on May 24<sup>th</sup>, departure on May 29<sup>th</sup>).

This four days summer school is in first place dedicated to XTRA young researchers, as well as other students from XTRA partners. It aims to give these young scientists an overview of the physics and experimental techniques involved in the XTRA research fields. Being addressed to students, the lectures will be teaching-oriented, as far as possible, and will provide basic principles as well as insights in recent advances.

Four main topics will be considered in the school:

- Femtosecond lasers and optics.
- High field physics in the gas phase, especially the generation of coherent XUV light.
- Applications of ultra-short coherent XUV pulses in gases (atoms and molecules) as well as the condensed phase (clusters, surfaces, solid state).
- Other coherent XUV sources, e.g., the Free Electron Laser and the X-ray laser.

“Practical” demonstrations of numerical procedures, e.g., for pulse characterization and control, will also be presented in the form of small “workshops” for a few attendees.

The lecturers will be experts, either members of XTRA network or outside XTRA.

The students are encouraged to present a poster describing their research activity.

The summer school, making a large enough place to the recent results in XTRA labs, will hold as a special “third XTRA meeting”.

Further information on accommodation and travel will be e-mailed soon to the XTRA partners and will be available on the XTRA website (<http://xtra.dei.unipd.it>).

In order to facilitate the organization of the summer school, the persons interested are requested to pre-register by contacting Mrs Patricia Toullier, [patricia.toullier@ensta.fr](mailto:patricia.toullier@ensta.fr).

The organizing committee :

C. Valentin (LOA-Palaiseau), Ph. Balcou (LOA-Palaiseau), E. Constant (CELIA-Bordeaux) and B. Carré (SPAM-Saclay).