

# ECRYS-2008

## International Workshop on ELECTRONIC CRYSTALS

August 24 – 30, 2008



Institut d'Etudes Scientifiques de Cargèse,  
Corsica, France

<http://www.lps.u-psud.fr/ecrys2008/>

### First announcement for the 5-th

#### WORKSHOP on ELECTRONIC CRYSTALS, ECRYS-2008

The International Workshop on Electronic Crystals will be held again! Continuing the chain of the earlier meetings ECRYS 1993-2005, we organize the next one ECRYS-2008 in August 2008 (24/08 - 30/08).

It will take place in Corsica, France, at the Institut d'Etudes Scientifiques de Cargèse,

<http://www.iesc.univ-corse.fr/Pages/Institut.html>

#### *The series of workshops ECRYS pursue several goals:*

To gather various communities engaged in studies of static and dynamic properties of spontaneous superstructures.

To present comprehensively the current activity in all types of Electronic Crystals: Charge Density Waves, Spin Density Waves including the Field Induced ones, Wigner Crystals (in semiconductors, at the He surface, in high magnetic field, of colloids); Charge Ordering and Ferroelectricity in organic conductors; Superstructures due to magnetic breakdown of singlet states (FFLO and CDWs); Stripes, Disproportionation, and local effects in doped oxides; Electron Ordering at charged biomolecules and membranes; Junction effects.

To emphasize the common phenomenology of Electronic Crystals, Vortex Lattices, Domain Walls, friction, etc: sliding versus pinning and glassy behaviour; plasticity and all related nonlinear, nonstationary and inhomogeneous effects; related physics of topological defects: solitons, dislocations, instantons, phase slips, current conversion.

To review advanced experimental approaches: synchrotron radiation - space resolved and micro diffraction; nanoscale designs by focused ion beams; quantum mesoscopics of the sliding state; tunnelling, optical and ARPES accesses to pseudo- and intra- gap effects and to electronic interactions.

### Organizing Committee:

#### Chairmen:

Serguei Brazovski, LPTMS, Orsay, France  
Pierre Monceau, Institut Néel, Grenoble, France

#### Scientific secretary:

Natasha Kirova, LPS, Orsay, France

### International Advisory Board :

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Visit the web site of the previous ECRYS-2005  
<http://www.lps.u-psud.fr/ecrys/ECRYS-2005.html>  
to appreciate the principles, the expected program layout and the list of first awaited participants of the ECRYS-2008. We are looking forward to know about your interest to participate or to keep receiving the information.

**To receive the future information, please fill the Pre-registration form on line on the website of the conference**