



ECRYS-2008, 5th International Workshop on ELECTRONIC CRYSTALS August 24 – 30, 2008

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Deadline for abstract submission: April 30, 2008
Web site: <http://www.lps.u-psud.fr/ecrys2008>

ECRYS topics: Charge and 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; Superstructures due to magnetic breakdown; Stripes and Disproportionation in oxides; Supersolid; Charges in biology and soft matter.
Unifying phenomena: sliding, pinning and glassy state; plasticity, current conversion and related nonlinear, nonstationary and inhomogeneous effects; topological defects – solitons, dislocations, instantons, phase slips.
Advanced techniques: synchrotron radiation - space resolved and micro diffraction; nanoscale design by focused ion beams; quantum mesoscopics of the sliding state; STM, tunnelling, optics and ARPES techniques.
Theory: from pinning to strong correlations.