


**INTERNATIONAL WORKSHOP
ON
ELECTRONIC CRYSTALS**

ECRYS-2005

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August 21 -27, 2005

Cargèse, France

Programme

Monday, August 22

8:00 – 9:00

Registration

9:00 – 9:20

Opening

9:20 - 10:30

Optical probes (OP)

9:20 – 9:50 **Bidirectional optical phase control between a charge-ordered insulator and a metal in manganite thin films**

OP-1 **K. Miyano** and N. Takubo

Research Center for Advanced Science and Technology, University of Tokyo, Japan.

9:50 – 10:10 **Infrared signature of the out-of-chain charge-density-wave phase transition in ZrTe₃**

OP-2 **L. Degiorgi**¹, A. Perucchi¹ and H. Berger²

¹ *ETH Zurich, Switzerland*

² *EPF Lausanne, Switzerland*

10:10 – 10:30 **Electromagnetic response of charge-ordered quasi-1D organic conductors**

OP-3 **M. Dumm**, B. Salameh, and M. Dressel

Physikalisches Institut, Universität Stuttgart, Germany

10:30 – 11:00

Coffee break

11:00 – 11:55 **Microscopic mechanisms and quantum effects - I (MQ-I)**

11:00 – 11:20 **Onset of quantum melting in 1d and 2d Wigner lattices**

MQ - 1 **D. Baeriswyl**¹, S. Fratini² and B. Valenzuela³

¹ *University of Fribourg, Switzerland,*

² *CNRS, Grenoble, France,*

³ *ICM, Madrid, Spain*

11:20 – 11:35 **D-wave density waves in CeCoIn₅ and high T_c cuprates**

MQ - 2 **B. Dora**¹, K. Maki², A. Virosztek

¹ *Dept. of Physics, Budapest Univ. of Technology and Economic, Hungary*

² *Dept of Physics and Astronomy, USC, Los Angeles, California*

11:35 – 11:55 **Luttinger liquid in quasi-one-dimensional conductors stabilized by impurities: electronic structure and low-temperature conductivity**

MQ - 3 **S.N. Artemenko**

Institute for Radioengineering and Electronics, RAS, Moscow, Russia

11:55-12-10 **Instanton theory of the subgap internal tunneling in chain conductors**

MQ - 4 **S. I. Matveenko**¹ and S. Brazovskii²

¹ *Landau Institute for Theoretical Physics, Moscow, Russia*

² *LPTMS CNRS, Université Paris-Sud, Orsay, France*

12:30-14:00

Lunch

Monday, August 22

16:00 – 17:10

Charge ordering (CO)

16:00 – 16:30 Feshbach-shape resonances in nanoscale multiband systems for high T_c superconductivity

CO - 1

M. Filippi¹, A. Bianconi¹, A. Bussmann-Holder²

¹*Department of Physics, University of Rome La Sapienza P.le Aldo Moro 2, 00185 Roma, Italy*

²*Max-Planck-Institute for Solid State Research, Heisenbergstr. 1, D-70569 Stuttgart, Germany*

16:30 – 16:50 Superconductivity, charge order and anomalous magnetism in Na cobaltates

CO - 2

H. Alloul

Laboratoire de Physique des Solides, Université Paris Sud, Orsay, France

16 :50 – 17:10 The $s=1/2$ quantum magnet TiOCl studied by photoemission spectroscopy

CO - 3

M. Sing¹, M. Hoinkis², M. Klemm², S. Horn², R. Valenti³, and R. Claessen¹

¹*Experimentelle Physik 4, Universitaet Wuerzburg, Germany*

²*Experimentalphysik II, Universitaet Augsburg, Germany*

³*Institut fuer Theoretische Physik, Universitaet Frankfurt, Germany*

17:10 – 17: 40

Coffee break

17:40 – 18:55

Space resolved studies (SR)

17:40 – 18:00 Dynamics of the electro-optic response of charge-density-wave conductors

SR - 1

J.W. Brill, L. Ladino, R.C. Rai, M. Freamat, and M. Uddin

University of Kentucky, Lexington, KY, USA

18:00 – 18:20 Transverse correlation effects in the CDW conductor NbSe₃ studied by X-ray microbeam diffraction

SR - 2

A. F. Isakovic¹, P. G. Evans², Z. Cai³, J. Kmetko¹, and R. E. Thorne¹

¹*LASSP, Cornell University, Ithaca, NY, USA*

²*Mat. Sci. and Engineering Dept., University of Wisconsin-Madison, USA*

³*Argonne National Lab, Argonne, IL, USA*

18:20 – 18:40 Charge Density Wave dislocations as revealed by Coherent X-ray Diffraction

SR - 3

D. Le Bolloc'h¹, S. Ravy², J. Dumas³, J. Marcus³, F. Livet⁴, C. Detlefs⁵, F. Yakhou⁵ and L. Paolasini⁵.

¹*Laboratoire de Physique des Solides, Université Paris-Sud, Orsay, France.*

²*Synchrotron SOLEIL, L'Orme des merisiers, France.*

³*Lab. d'Etude des Propriété Electroniques des Solides-CNRS, Grenoble, France.*

⁴*LTPCM, ENSEEG-Domaine Universitaire Saint Martin d'Hèrex, France.*

⁵*European Synchrotron Radiation Facility, Grenoble, France.*

18 :40 – 18 :55 Theory of the X-ray scattering from CDWs with dislocations

SR - 4

N. Kirova¹ and S. Brazovskii²

¹*LPS, Université Paris-Sud, Orsay, France*

²*LPTMS, Université Paris-Sud, Orsay, France*

19:00

Welcome reception

Tuesday, August 23

8:30 – 9:55

Pinning and sliding (PS)

8:30 – 8 :50 Onset of Motion and Glassy Dynamics of Moving Vortex Lattices
Eva Andrei¹, Guohong Li¹, Z. L. Xiao², P. Shuk³ and M. Greenblatt³
PS - 1 ¹*Department of Physics and Astronomy, Rutgers University, NJ, USA*
²*Materials Science Division, Argonne National Laboratory, USA*
³*Department of Chemistry, Rutgers University, NJ, USA*

8 :50 - 9 :10 Nonlinear electric conduction in the charge order state of (TMTTF)₂X
PS - 2 **M. Nagasawa¹**, T. Nagasawa¹, K. Ichimura² and K. Nomura²
¹*Tokyo Denki Univ., Tokyo, Japan*
²*Hokkaido Univ., Sapporo, Japan*

9:10 – 9:30 Depinning of the Spin-density Wave in (TMTTF)₂Br under Pressure
PS - 3 **K. Nomura¹**, K. Ishimura¹, K. Fujimoto¹, N. Matsunaga¹,
T. Nakamura², T. Takahashi³ and G. Saito⁴
¹*Division of Physics, Hokkaido University, Sapporo, Japan*
²*Institute for Molecular Science, Okazaki, Japan*
³*Department of Physics, Gakushuin University, Tokyo, Japan*
⁴*Division of Chemistry, Kyoto University, Kyoto, Japan*

9:30 – 9:45 X-ray spectrum in disordered Charge Density Wave
Alberto Rosso¹, T. Giamarchi², R. Chitra³, E. Orignac⁴
PS - 4 ¹*LPTMS, Université Paris-Sud, Orsay, France*
²*DPMC, Université of Genève, Switzerland*
³*LPTL, Jussieu, Paris, France*
⁴*LPT-ENS, Paris, France*

9:45-10:00 Nonlinear transport in β -Na_{0.33}V₂O₅
S. Sirbu¹, P.H.M. van Loosdrecht¹, T.Yamauchi², and Y. Ueda²
PS - 5 ¹*Material Science Centre, University of Groningen, The Netherlands*
²*Institute for Solid State Physics, University of Tokyo, Japan*

10:00 – 10:30

Coffee break

10:30– 12:15

Charge disproportionation –I (CD-I)

10:30 -11:00 Charge ordering and frustration in organic conductors
K. Kanoda, T. Itou, S. Arakawa, K. Ohnno, M. Kodama, K.Miyagawa
CD - 1 *Department of Applied Physics, University of Tokyo, Japan*

11:00 – 11:20 X-ray Structural Study of Charge and Anion Orderings of TMTTF Salts.
CD-2 **Yoshio Nogami^{1,2}**, Takayoshi Ito¹, Kenichiro Yamamoto¹, Naoaki Irie¹, Shintaro Horita¹, Takashi Kambe¹, Nobuaki Nagao¹, Kokichi Oshima¹, Naoshi Ikeda³ and Toshikazu Nakamura⁴
¹*Department of Physics, Okayama University, Japan*
²*CREST, JST, Saitama, Japan*
³*Japan Synchrotron Radiation Research Institute, Hyogo, Japan*
⁴*Institute for Molecular Science, Aichi, Japan*

Tuesday, August 23

- 11:20 – 11:40 Charge ordering and local-singlet formation in quarter-filled band charge-transfer solids and oxides of early transition metals**
CD -3 **S. Mazumdar**¹ and R.T. Clay²
¹*University of Arizona, Tucson, USA*
²*Mississippi State University, Mississippi State, USA.*
- 11:40 – 11:55 Laue diffraction: the key for neutron diffraction from submillimetric-volume single crystals**
CD - 4 **M.-H. Lemée-Cailleau**, Garry J. McIntyre, C. Wilkinson
Institut Max von Laue – Paul Langevin, Grenoble, France
- 11:55 – 12:15 From functional π -donors with no symmetry to current issues in Mott physics**
CD-5 **P. Batail**
CIMMA UMR 6200, CNRS-University of Angers, Angers, France.
- 12:30 - 14:00 Lunch**
- 16:00 – 17:00 Round Table : Collective effects (RT)**
- 16:00 – 16:30 A History of the I-V Characteristic of CDW Conductors**
RT - 1 **R.E. Thorne**
Cornell University, Ithaca, USA
- 16:30 - 17:00 Comments and Discussion**
- 17:00 – 17:30 Coffee break**
- 17:30 – 19:00 Poster session I (P-I)**

Wednesday, August 24

8:30 – 9:50

Glassy electronic solids (GS)

8:30 – 8:50 Quantum creep and variable range hopping in 1d disordered electron systems

GS - 1 **T. Nattermann**, S. Malinin, B. Rosenow
Institute for Theoretical Physics, University of Cologne, Cologne, Germany

8:50 – 9:10 Zero field Wigner glass

GS - 2 **T. Giamarchi**¹ and R. Chitra²
¹*University of Geneva, Geneva, Switzerland*
²*Université Pierre et Marie Curie, Paris, France*

9:10 – 9:30 Energy relaxation in disordered charge and spin density waves

GS - 3 **R. Mélin**¹, K. Biljakovic², J.C. Lasjaunias¹, P. Monceau¹
¹*CRTBT-CNRS, Grenoble, France*
²*Institute of Physics, Zagreb, Croatia*

9:30 – 9:50 Memory effects in electron glasses

GS - 4 **M. Mueller**
Rutgers University, USA

9:50 – 10:30

Coffee break

10:30 – 11:55

Stripes, excitons, polarons, solitons (SE)

10:30 – 11:00 Do charge-density waves stabilize stripe order in $\text{La}_{1.875}\text{Ba}_{0.125}\text{CuO}_4$?

SE - 1 **J.M. Tranquada**
Brookhaven National Laboratory, Upton, NY, USA

11:00 – 11:20 Formation of exciton strings in photo-induced phase transitions

SE - 2 **F.V. Kusmartsev**¹ J.H. Samson¹, A. Radosz², K. Ostasiewicz²,
P. Magnuszewski², and L. Radosinski²
¹*Department of Physics, Loughborough University, UK,*
²*Institute of Physics, Wrocław University of Technology, Wrocław, Poland.*

11:20 – 11:35 Polarons and the observation of hole crystals in layered cuprates

SE - 3 **S. Fratini**
CNRS LEPES, Grenoble, France

11:35 – 11:55 Recent views on solitons in Density Waves.

SE - 4 **S. Brazovskii**
LPTMS, Université Paris-Sud, Orsay, France

12:30 – 14:00

Lunch

Thursday August 25

8:30 – 10:00

High magnetic fields and 2D electrons (HF)

8:30 – 9:00 **Recent results in microwave and RF spectroscopy of two-dimensional electron solids**

HF - 1 **L. W. Engel**¹, Yong Chen^{1,2}, R. M. Lewis^{1,2}, D. C. Tsui²,
L. N. Pfeiffer³ and K. W. West³

¹NHMFL/FSU, Tallahassee USA

²Princeton University USA

³Lucent Technologies USA

9:00 – 9:20 **Quantum phases in partially filled Landau levels**

HF - 2 **M. O. Goerbig**¹, **P. Lederer**², C. Morais Smith³

¹LPTHE, CNRS & Univ. Pierre et Marie Curie, Paris, France

²Physique des Solides, Université Paris-Sud & CNRS, Orsay, France

³University of Utrecht, The Netherlands

9:20 – 9:40 **Intermediate phases of the two dimensional electron fluid between the Fermi liquid and the Wigner crystal**

HF - 3 **B. Spivak**

Department of Physics University of Washington, WA Seattle USA

9:40 – 10:00 **Helium bubbles in external fields**

HF - 4 **V. Shikin**¹, J. Shikina²

¹Institute of Solid State Physics, Chernogolovka, Russia

²Inst. of Microelectronics Technology and High Purity Materials, Chernogolovka, Russia

10:00 – 10:30

Coffee break

10:30 – 11:50

Charges in soft matter (SM)

10:30 – 11:00 **DNA as a soft electronic material**

SM - 1 **A.R. Bishop,**

Los Alamos National Laboratory, USA

11:00 – 11:30 **Crystals from Charged Colloids and Emulsion Droplets**

SM-2 **P. Chaikin**

Princeton University, USA

11:30 – 11:50 **Electromagnetic probes of molecular motors in the electron transport chains of mitochondria and chloroplasts**

SM - 3 **J. H. Miller, Jr**¹, D. Nawarathna¹, V. Vajrala¹, J. Gardner²,
W. R. Widger²,

¹Departments of Physics, University of Houston, Texas, USA

²Departments of Biology & Biochemistry, University of Houston, USA

12:30-14:00

Lunch

Thursday August 25

16:00 – 17:05

Meso and nano structures. (MN)

16:00 – 16:30 Interlayer tunneling spectroscopy of layered cdw materials

MN - 1 **Yu.I. Latyshev**¹, P. Monceau², S.A. Brazovskii³, A.P. Orlov¹,
A.A. Sinchenko⁴, Th. Fournier², E. Mossang⁵

¹*Inst. of Radio-Eng. and Electronics, RAS, Moscow, Russia*

²*CRTBT-CNRS, Grenoble, France*

³*LPTMS-CNRS, Université Paris-Sud, Orsay, France*

⁴*Moscow Engineering- Physical Institute, Russia*

⁵*LCMI-CNRS, Grenoble, Grenoble, France*

16:30 – 16:50 Non-uniform superconductivity in s/f nanostructures

MN - 2 **A. Buzdin**

Inst. Universitaire de France, Paris and Université Bordeaux I, France

16:50 – 17:05 Exchange interaction in quantum rings and wires in the Wigner-crystal limit

MN - 3 **M. Fogler**

UC San Diego, USA

17:05 – 17:35

Coffee break

17:35 – 19:00

Poster session –II

Friday August 26

8:30 – 10:00 Microscopic mechanisms and quantum effects-II (MQ-II)

- 8:30 – 9:00 Interplay between electronic correlations and quantum fluctuations in disordered square lattices**
MQ - 5 **J.-L. Pichard**¹
¹SPEC-CEA, Saclay, France
- 9:00 -9:20 Photocontrolled collective phenomena in TaS₃**
MQ -6 **S.V. Zaitsev-Zotov**, V.E. Minakova
Institute of Radioengineering and Electronics of RAS, Moscow, Russia
- 9:20 – 9:40 Phase diagrams of (La,Y,Sr,Ca)₁₄Cu₂₄O₄₁: switching between the ladders and chains**
MQ - 7 **T. Vuletic**¹, T. Ivek¹, B. Korin-Hamzic¹, S. Tomic¹, B. Gorshunov^{2,3}, M. Dressel², C. Hess⁴, B. Büchner⁴, J. Akimitsu⁵
¹Institut za fiziku, Zagreb, Croatia
²Physikalisches Institut, Universität Stuttgart, Germany
³General Physics Institute, RAS, Moscow, Russia
⁴Institut für Festkörper - und Werkstoffforschung, Dresden, Germany
⁵Dept. of Physics, Aoyama-Gakuin University, Kanagawa, Japan
- 9:40 – 10:00 Scaling Relations in Nodal Superconductors**
MQ - 8 **K. Maki**¹, D. Parker¹ and H. Won²
¹ Dept of Physics and Astronomy, USC, Los Angeles, California
²Dept of Physics, Hallym U. South Korea

10:00– 10:30 Coffee break

10:30 – 12:00 Charge Disproportionation - II (CD-II)

- 10:30 – 11:00 Charge disproportionation, everywhere**
CD - 5 **T. Takahashi**¹, K. Hiraki¹, S. Moroto¹, Y. Takano¹, Y. Kubo¹, S. Harada¹, R. Chiba¹, M. Tajima^{2,3}, H.M. Yamamoto^{2,3}, R. Kato^{2,3} and T. Naito⁴
¹Gakushuin Univ., Tokyo, Japan
²RIKENA, Wako, Japan,
³JST-CRESTB, japan,
⁴Hokkaido Univ., Sapporo, Japan
- 11:00 – 11:20 Charge ordering, fluctuations and anionic coupling in quasi-1D molecular conductors**
CD - 6 **Stuart Brown**
UCLA, Department of Physics and Astronom, Los Angeles, USA
- 11:20 – 11:40 Suppression of charge ordering across the spin-Peierls transition in TMTTF based Q1D material**
CD - 7 **Shigeki Fujiyama**, and Toshikazu Nakamura
Inst. for Molecular Science, Okazaki, Japan
Dept. of Applied Physics, Univ. of Tokyo, Japan

Friday August 26

11:40 – 12:00 4 k_F CDW induced by long range Coulomb interactions

CD - 8 F.Ya. Nad¹, P. Monceau², M. Nagasawa³, T. Nakamura⁴
¹ *Institut of Radio-Engineering and Electronics, RAS, Moscow, Russia*
² *Centre de Rech. sur les Tres Basses Temperatures, CNRS, Grenoble, France*
³ *Dept. Natural Science and Material Science, Tokyo Denki University, Japan*
⁴ *Institute for Molecular Science, Okazaki, Japan*

12:30-14:00

Lunch

16:00 – 17:10

Magnetic Fields and 2D electrons (2D)

16:00 -16:20 High magnetic field magnetoresistance anomalies in the charge density wave state of the quasi-two dimensional bronze KMo₆O₁₇

2D -1 H. Guyot¹, J. Dumas¹, C. Schlenker¹, D. Vignolles²
¹ *LEPES-CNRS, Grenoble, France*
² *Labo. National des Champs Magnétiques Pulsés, Toulouse, France*

16:20 – 16:40 Incoherent versus coherent interlayer transport in layered conductors under magnetic field

2D -2 M.V. Kartsovnik¹, D. Andres¹, W. Biberacher¹, N.D. Kushch², H. Mueller³, I. Sheikin⁴
¹ *Walther-Meissner Institute, Garching, Germany*
² *Institute of Problems of Chemical Physics, Chernogolovka, Russia*
³ *ESRF, Grenoble, France*
⁴ *High Field Laboratory, MPI-FKF&CNRS, Grenoble, France*

16:40 -16:55 Effect of the dimerized gap due to anion ordering in the field-induced spin-density-wave of quasi-one dimensional organic conductors

2D -3 N. Matsunaga¹, K. Hino¹, T. Ohta¹, K. Yamashita¹, K. Nomura¹, T. Sasaki², A. Ayari^{3,4}, P. Monceau^{3,4}, M. Watanabe⁵, J. Yamada⁵, and S. Nakatsuji⁵
¹ *Hokkaido Univ., Sapporo, Japan*
² *Tohoku Univ., Sendai, Japan*
³ *CRTBT-CNRS, Grenoble, France*
⁴ *CNRS/MPI-FKF, Grenoble*
⁵ *Univ. of Hyogo, Japan*

16:55 – 17:10 Unusual magnetotransport properties of NbSe₃ single crystals at low temperature

2D -4 A.A. Sinchenko¹, Yu.I. Latyshev², A. P.Orlov², P. Monceau³
¹ *Moscow Engineering-Physics Institute, 115409 Moscow, Russia*
² *Institute of Radioengineering and Electronics, RAS, Moscow, Russia*
³ *CRTBT-CNRS, Grenoble, France*

17:10 – 17: 40

Coffee break

17:40 – 18:10

Concluding remarks, closing

Saturday August 27

Departure

Poster session I (P-I)

- PI-1** **Temperature hysteresis in dielectric and transport properties of charge density wave system o-TaS₃**
D. Dominko¹, D. Staresinic¹, K. Biljakovic¹, P. Lunkenheimer², A. Loidl²
¹Institute of Physics, Zagreb, Croatia ²University of Augsburg, Germany
- PI-2** **Hysteresis in thermal expansion and in transverse conductivity of o-TaS₃ - a key for understanding the low-temperature anomalies in the quasi one-dimensional conductors?**
V.Ya. Pokrovskii, A.V. Golovnya, S.G. Zybtev and I.G. Gorlova
Institute of Radioengineering and Electronics RAS, Moscow, Russia.
- PI-3** **Electrical transport through constrictions in the charge-density wave conductor NbSe₃**
Kevin O'Neill¹, Erwin Slot¹, Rob Thorne², Herre van der Zant¹
¹Kavli Institute of Nanoscience Delft, Delft University of Technology, The Netherlands
²Laboratory of Atomic and Solid State Physics, Cornell University, USA
- PI-4** **Numerical study on “plastic flow - moving solid” transition of charge density waves in nonequilibrium steady state under external drive**
Nogawa Tomoaki
Division of Physics, Graduate School of Science, Hokkaido University, Japan
- PI-5** **Non equilibrium Relaxation of an Elastic String in a Random Potential**
A.B. Kolton¹, A.Rosso², T. Giamarchi¹
¹University of Geneva, Switzerland
²LPTMS, Orsay, France.
- PI-6** **Analysis of the electro-optical search for current induced intragap states in blue bronze**
J.W. Brill¹
¹University of Kentucky, Lexington, KY USA
- PI-7** **Scanning tunnelling microscopy of charge density waves in NbSe₃**
C. Brun¹, Z. Z. Wang¹, P. Monceau²
¹Laboratoire de Photonique et de Nanostructures-CNRS, France
²CRTBT-CNRS, Grenoble, France
- PI-8** **Coherent diffraction of charge-density waves upon electric field.**
S. Ravy¹, D. Le Bolloc'h², J. Dumas³, J. Marcus³, F. Livet⁴, C. Detlefs⁵, F. Yakhov⁵ and L. Paolasini⁵
¹Synchrotron-Soleil, 91192 Gif-sur-Yvette cedex, France
²Laboratoire de physique des solides, Université Paris-sud, Orsay, France
³LEPES-CNRS, Grenoble, France
⁴LTPCM, ENSEE-Domaine Universitaire, Saint Martin d'Hères cedex, France
⁵ESRF Grenoble, France
- PI-9** **The ordered limit of the superconductivity**
V. Cvetkovic, J. Zaanen, S. Mukhin, Z. Nussinov
Lorentz Institute, University of Leiden, The Netherlands
- PI-10** **Enhancement of wigner crystallization in low dimensional solids.**
G. Rastelli^{1,2}, S. Fratini², P. Quémerais²
¹INFM and Dipartimento di Fisica, Università del l'Aquila, Italy
²LEPES-CNRS, Grenoble, France

- PI-11** **Coherent Collective Oscillation in the Commensurate Phase of the TaS₃ Compound**
T. Minami, **Y. Toda**, K. Shimatake, and S. Tanda
Department of Applied Physics, Hokkaido University, Japan.
- PI-12** **Multi-Phase coexistence in the quasi-1D organic conductor (TMTSF)₂ReO₄**
C. Colin¹, P. Wzietek¹, C. Pasquier¹, K. Bechgaard²
¹*Laboratoire de Physique des Solides, Orsay, France*
²*Polymer Department, Roskilde, Denmark*
- PI-13** **Doping effects on the low-energy excitations of the charge density wave system o-TaS₃**
K. Biljakovic¹, D. Staresinic¹, P. Lunkenheimer², A. Loidl², J. C. Lasjaunias³
¹*Institute of Physics, Hr-10 001 Zagreb, P. O. Box 304, Croatia*
²*Experimentalphysik IV, Universitaet Augsburg, Germany*
³*CRTBT-CNRS, Grenoble, France*
- PI-14** **Thermodynamic properties of relaxed (TMTSF)₂ ClO₄ in the magnetic field**
Danko Radic¹, Aleksa Bjelis¹ and Drazen Zanchi²
¹*Department of Physics, Faculty of Science, University of Zagreb, Zagreb, Croatia*
²*Laboratoire de Physique Théorique et Hautes Energies, Jussieu, Paris, France*
- PI-15** **Interlayer correlations versus intralayer correlations in Quantum Hall bilayers**
G. Möller¹
LPTMS, CNRS & Univ. Paris Sud, Bât. 100, 91405 Orsay Cedex, France
- PI-16** **Novel Composite-Fermion Phases: Crystals, Stripes, and Higher Generations**
M.O. Goerbig¹, P. Lederer², C. Morais Smith³
¹*Laboratoire de Physique Theorique et Hautes Energies, Paris, France.*
²*Laboratoire de Physique des Solides, Orsay, France.*
³*Institute for Theoretical Physics, Utrecht, The Netherlands.*
- PI-17** **Magnetic Field Influence on the Low Temperature Heat Capacity of the CDW compounds TaS₃ and Rb_{0.3} Mo O₃**
J.C. Lasjaunias¹, **K. Biljakovic**², S. Sahling³, and P.Monceau¹
¹*CRTBT-CNRS, BP 166, 38042 Grenoble cedex 9, France,*
²*Institute of Physics, POB 304, HR-10001, Zagreb, Croatia.*
³*Inst. für Angewandte Physik, IAPD, TU Dresden, Germany*
- PI-18** **Conduction and optical effects in the plastic charge-density waves**
Naoki Ogawa¹, Kenjiro Miyano², and Serguei Brazovskii³
¹*Dept. of Physics, Univ. of California at Irvine, U.S.A.*
²*RCAST, University of Tokyo, Tokyo 153-8904, JAPAN*
³*LPTMS, Université Paris-Sud, Orsay, France*
- PI-19** **Charge transfert between the moving coexisting Q₁ and Q₂ charge density waves in NbSe₃**
A. Ayari¹, R. Danneau^{1,2}, H. Requardt³, L. Ortega⁴, J.E. Lorenzo⁴, **P. Monceau**¹, R. Currat², S. Brazovskii⁵, G. Grübel³
¹*Centre de Rech. Sur les Tres Basses Temperatures, CNRS, Grenoble, France*
²*Institut Laue Langevin, Grenoble, France*
³*European Synchrotron Radiation Facility, Grenoble, France*
⁴*Laboratoire de Cristallographie, CNRS, Grenoble, France*
⁵*LPTMS – CNRS, Orsay, France*

Poster session II (P-II)

- PII-1** **Thermodynamic properties of the spin-chain compound, praesodymium ruthenate**
J.W. Brill¹, M. Freamat¹, X.N. Lin¹, V. Durairaj¹, S. Chikara¹, and G. Cao¹
University of Kentucky, Lexington, KY, USA
- PII-2** **Thermal expansion measurements of whiskers of superconductors and Peierls conductors**
A.V. Golovnya, V. Ya. Pokroskii, S.G. Zybtssev, I.G. Gorlova.
Institute of Radio-engineering and Electronics RAS, Moscow, Russia
- PII-3** **Six orders pressure-induced drop of resistivity in quasi-one-dimensional conductor NbS₃(I)**
A.G. Zhuravlev¹, E. M. Dizhur², M. A. Il'ina², and S. V. Zaitsev-Zotov¹
¹*Institute of Radioengineering and Electronics RAS, Moscow, Russia*
²*Institute for High Pressure Physics RAS, Troitsk Moscow Reg., Russia*
- PII-4** **Charge density wave and pressure-induced reentrant superconductivity in ZrTe₃**
K. Yamaya¹, R. Yomo¹, K. Inagaki¹, S. Tanda¹, M. Abliz², M. Hedo², Y. Uwatoko²
¹*Dept. of Appl. Phys., Hokkaido University, Sapporo, Japan*
²*ISSP, University of Tokyo, Kashiwa, Chiba, Japan*
- PII-5** **Unconventional charge density wave in coupled electron-phonon system**
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- PII-6** **Probable effect of commensurability on the CDW deformation near a point contact**
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- PII-7** **Instability and stable non-stationary state induced by current in stack direction in low-dimensional conductors**
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- PII-8** **Spin exchange in a quantum wire at low electron density**
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- PII-9** **Negative Differential Resistance in CDW Nonlinear Transport of Quasi-One Dimensional Conductor (Per)₂M(mnt)₂ [M=Au, Pt]**
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- PII-10** **Imaging of NbSe₂ Nanotube by STM**
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- PII-11** **Illumination-dependent linear conduction in TaS₃**
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- PII-12** **Soliton transport in nanoscale o-TaS₃ crystals**
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- PII-13** **New contribution to the thermopower of o-TaS₃**
Z. Simek, P. Puntijar, M. Ocko, D. Staresinic; K. Biljakovic
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K. Morikawa*, N. Shinjo¹, T. Endo¹, F. Imura, K. Wakasugi¹,
Y. Nishi, A. Nakada¹, H. Kubota¹,
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- PII-15** **Low temperature properties of a magnetic impurity**
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- PII-16** **NMR evidence for hidden order in the high-temperature phase of (TaSe₄)₂I**
L. Németh, P. Matus, B. Alavi, and G. Kriza
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- PII-17** **Impurity-induced metal-isolator transition in quasi one-dimensional metals NbSe₃ and TaSe₃**
A.V. Zavalco, S.V. Zaitsev-Zotov
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- PII-18** **Anisotropy of charge and spin motion in perylene hexafluoroarsenate salts.**
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