

Tuesday, June 1

8:30 - 8:45 Opening

8:45 - 10:15 Glassy State I

8:45

NMR INVESTIGATION OF SPIN DENSITY WAVE REPINNING IN (TMTSF)₂PF₆

W.G. Clark*, M.E. Hanson*, W.H. Wong# and B. Alavi*

*UCLA, USA; #Varian Associates, Palo Alto, CA, USA

9:05

FLOW INDUCED ORGANIZATION AND MEMORY OF A VORTEX LATTICE

E. Y. Andrei*, Z. L. Xiao*, M. J. Higgins#

*Rutgers University, USA, #NEC Research Institute, Princeton, USA

9:25

DISORDER DRIVEN LOCK-IN TRANSITIONS OF 3D CDWs AND RELATED STRUCTURES.

T. Nattermann, T. Emig and S. Bogner; *University of Cologne, Germany*

9:50

DYNAMIC SCALING DURING CDW RELAXATION FROM THE SLIDING STATE

J.D.Brock, K.L.Ringland, A.C.Finnefrock, Y.Li, S.G. Lemay and

R.E.Thorne, *Cornell University, Ithaca, NY, USA*

10:15 – 10:45 Coffee break

10:45 - 12:30 Electronic interactions

10:45 – 11:05

PHOTOEMISSION STUDY OF ORGANIC AND INORGANIC CDW-SYSTEMS

F. Zwick*, H. Berger*, M. Grioni*, G. Margaritondo* and M. Onellion

*EPF Lausanne, Switzerland; ° University of Wisconsin, Madison, USA

11:05 - 11:25

THE DIMENSIONALITY-DRIVEN METAL-INSULATOR TRANSITION IN ORGANIC BECHGAARD SALTS

V. Vescoli*, **L. Degiorgi**, W. Henderson#, G. Gruner# and L.K. Montgomery^

*ETH-Zurich, Switzerland; #Department of Physics, UCLA, Los Angeles, U.S.A.

^Department of Chemistry, Indiana University, Bloomington, U.S.A.

11:25 11:40

X-RAY STRUCTURAL STUDY OF 4K_F WIGNER CRYSTAL AND 4K_F PEIERLS STATE

IN DCNQI COMPLEX WITH ¼ FILLED QUASI ONE-DIMENSIONAL BAND.

Y. Nogami*, K. Oshima*, K. Hiraki~, **K. Kanoda**^

*Okayama Univ., Japan; ~Gakushuin Univ., Tokyo, Japan; ^The Univ. of Tokyo, Japan.

11:40-11:55

HIGH DIELECTRIC PERMITTIVITY IN QUASI-ONE-DIMENSIONAL ORGANIC COMPOUNDS

(TMTTF)₂X: POSSIBLE EVIDENCE FOR CHARGE INDUCED CORRELATED STATE

F.Nad*#, P.Monceau* and J.Fabre+

#*Institute of Radioengineering and Electronics, Moscow, Russia;*

**CRTBT CNRS, Grenoble, France;* +*Laboratoire de Chimie Structurale Organique, Montpellier, France*

11:55 –12:10

CHARGE ORDERING IN ORGANIC CONDUCTORS.

K. Kanoda+, K. Miyagawa+, A. Kawamoto*, K. Hiraki#

+ *University of Tokyo, Japan;* * *Hokkaido University, Sapporo, Japan;* # *Gakushuin University, Tokyo, Japan*

12:10-12:30

FEMTOSECOND TIME-DOMAIN SPECTROSCOPY OF SUPERCONDUCTORS AND CHARGE-DENSITY-WAVE SYSTEMS

D.Mihailovic

Solid State Physics Department, Jozef Stefan Institute, Ljubljana, Slovenia

16:00 – 17:10 Glassy state II

16:00 – 16:20

X-RAY DIFFRACTION OF PINNED CHARGE DENSITY WAVES

S. Ravy*, S. Rouziere**, S. Brazovskii*** and J.-P. Pouget*

LPS, Orsay, France,* *ISSP, Tokyo, Japan,* ****L.P.T.M.S., Orsay, France*

16:20 – 16:40

LOW TEMPERATURE THERMODYNAMICAL PROPERTIES OF BECHGAARD SALTS: (TMTSF)₂PF₆ VERSUS (TMTSF)₂AsF₆

K.Biljakovic*#, J.C.Lasjaunias* and P.Monceau*

**CRTBT-CNRS, Grenoble, France,* #*Institute of Physics, Zagreb, Croatia*

16:40 – 16:55

PINNED WIGNER CRYSTALS:

R. Chitra*, T. Giamarchi# and P. Le Doussal%

**Rutgers University, USA;* #*LPS, Univ. de Paris-Sud, Orsay, France;* % *ENS, Paris, France*

16:55 – 17:10

PSEUDOGAPS AND CHARGE BAND IN THE PARISI SOLUTION OF INSULATING AND SUPERCONDUCTING ELECTRONIC SPIN GLASSES AT ARBITRARY FILLINGS

R. Oppermann, H. Feldmann; *University of Wuerzburg, Germany*

17:10 – 17:30 Coffee

17:30 – 18:30 Poster presentations I

GLASS-LIKE BEHAVIOR IN THE CDW STATE OF THE QUASI-ONE-DIMENSIONAL CONDUCTOR $K_{0.3}MoO_3$

K. Hosseini*, W. Bruetting*, M. Schwoerer*,
E. Riedel* S. van Smaalen * K. Biljakovic# D. Staresinic#
*Universitaet Bayreuth, D-95440 Bayreuth, Germany.
#Institut of Physics, P.O. Box 304, HR-10001 Zagreb, Croatia

SPIN-ECHO OBSERVATION OF RADIO FREQUENCY INDUCED FLUX LATTICE ANNEALING (RIFLA) IN A TYPE-II SUPERCONDUCTORS.

G. Clark*, F. Lefloch[^], M.E. Hanson*, and W.H. Wong**
*UCLA Department of Physics and Astronomy, Los Angeles, CA, USA.
[^]CEA-Grenoble, France. **Varian Associates, Palo Alto, CA, USA.

SLOW DYNAMICS OF ENERGY RELAXATION IN THE COMMENSURATE SDW GROUND STATE OF (TMTTF)₂Br

J.C. Lasjaunias*, **K. Biljakovic*#**, D. Staresinic#, P. Monceau*, J.M. Fabre[^]
*CRTBT-CNRS, Grenoble, France, #Institute of Physics, Zagreb, Croatia;
[^]Lab. de Chimie Organique Structurale, Univ. des Science et Techniques du Languedoc, Montpellier, France

AGING OF FIELD COOLED AND ZERO FIELD COOLED $Bi_2Sr_2CaCu_2O_{8+\delta}$ MONOCRYSTALS

B.Sas*, F.Portier**, F.I.B. Williams**, K.Vad***, B.Keszei*, L.Kiss*, S.Meszáros***
*Institute for Solid State Physics, Budapest, Hungary; **SPEC, CEA, Saclay, France.
*** Institute of Nuclear Research, Debrecen, Hungary

COMPLEX DIELECTRIC RESPONSE OF THE CDW GROUND STATE IN O-TaS₃

D. Staresinic*, K. Biljakovic*, W. Bruetting[^], K. Hosseini[^], **S. Zaitsev-Zotov#**
*Institute of Physics, Zagreb, Croatia, [^]Universitaet Bayreuth, Bayreuth, Germany,
#Institute of Radioengineering and Electronics, Moscow, Russia

ELECTRONIC STRUCTURE OF (TASE₄)₂I AND (NbSe₄)₃I FROM HIGH-RESOLUTION PHOTOEMISSION

F. Zwick, L. Perfetti, and M. Grioni; Ecole Polytechnique Federale, CH-1015 Lausanne, Suisse

SPIN-DENSITY WAVE DYNAMICS IN THE ORGANIC CONDUCTOR (TMTSF)₂X

Nagasawa. M.1, **Sambongi, T.2** and Anzai, H.31
Department of Natural Sciences, Tokyo Denki University, Chiba 270-13, Japan
2 Department of Physics, Hokkaido University, Sapporo, Japan
3 retired from Dep. of Material Sci., Himeji Inst. of Technology, Kanagi, Kamigohri, Hyogo, Japan

DEPINNING OF THE CDW UNDER INHOMOGENEOUS CONDITIONS IN $K_{0.3}MoO_3$

M.Tian* and **J. Dumas** CNRS, LEPES, Grenoble, France;
*Permanent address: Univ. of Science and Technology of China, USTC, Hefei 23006, China

MOTION OF TWIN BOUNDARY IN (TMTSF)₂X: COMPARISON WITH DW DYNAMICS

T. Sambongi, T. Yokoyama, T. Saga and K. Kawabata
Hokkaido U, Sapporo Japan

SLIDING CHARGE-DENSITY WAVES AS ROUGH GROWTH SURFACES

J.D.Brock, K.L.Ringland, A.C.Finnefrock, Y.Li, S.G.Lemay, and R.E.Thorne
Cornell University, Ithaca, NY, USA

THEOPTICAL CONDUCTIVITY IN SPIN DENSITY WAVES

B.Dora*, A.Virosztek*, ^, K.Maki"

**Tech. Univ. Budapest, Hungary; ^Research Inst. for SSP, Budapest, Hungary; USC, Los Angeles, USA*

⁸⁷Rb NMR SPIN-LATTICE RELAXATION IN THE CDW PHASE OF Rb_{0.3}MoO₃

P. Matus, P. Bánki, and **G. Kriza**; *Res. Instit. for Solid State Physics and Optics, Budapest, Hungary*

INFLUENCE OF THE EXTERNAL MAGNETIC FIELD ON SPIN DENSITY WAVE IN QUASI-ONE-DIMENSIONAL CONDUCTING ANTIFERROMAGNETS (OR HMF)

A.S. Rozhavsky, T.Petrova; *B.I.Verkin Inst. for Low Temperature Physics and Engineering, Kharkov, Ukraine*

QUASI-ONE-DIMENSIONAL CHARGE DENSITY WAVE IN ELECTROMAGNETIC FIELD

ARBITRARILY ORIENTED TO CONDUCTING CHAINS: GENERALIZED FROHLICH RELATIONS

Yu.V. Pershin^{1,2}, A. S. Rozhavsky^{1,2} and I.A. Romanovsky^{1,3}
¹*B.I.Verkin Institute for Low Temperature Physics and Engineering, (permanent address)*
²*Grenoble High Magnetic Field Laboratory, Max-Planck-Institut fur Festkorperforschung and CNRS,*
³*Physical Department, Kharkov State University,*

SPIN GAP STATE IN NaV₂O₅ STUDIED BY FAR INFRARED SPECTROSCOPY.

D. Smirnov^a, J. Leotin^a, P. Millet^b, J. Jegoudez^c, A. Revcolevschi^c.

^a*LPMC, SNCMP, INSA, Complex Scientifique de Rangueil, Toulouse, France;*

^b*CEMEC, Toulouse, France;* ^c*LCS, Univ. Paris-Sud, 91405 Orsay*

PIEZOELECTRIC PROPERTIES OF QUASI ONE-DIMENSIONAL CONDUCTOR (TASE4)₂I

A. Suslov^a, P. Monceau*, H. Berger%, F. Levy%.

**CNRS-CRTBT, Grenoble, France; ^A.F.Ioffe PTI, St-Petersburg, Russia; %IPA-EPFL, Lausanne, Switzerland.*

SINGLE-PARTICLE AND SPIN-DENSITY WAVE CHARGE DYNAMICS IN (TMTSF)₂PF₆

AND (TMTSF)₂AsF₆: A COMPARATIVE OVERVIEW

T.Vuletic*, D.Herman*, N.Biskup*, M.Pinteric**, A.Omerzu*, S.Tomic* and M.Nagasawa^a

**Institute of Physics, Zagreb, Croatia, ** Faculty of Civil Engineering, University of Maribor, Maribor, Slovenia, ^Dept.of Physics, Hokkaido University, Sapporo, Japan*

THE ISOTOP EFFECT ON TRANSPORT PROPERTIES OF THE PEIERLS CONDUCTOR O-TaS₃

S.V.Zaitzev-Zotov, V.E.Minakova, A.M.Nikitina, and A.N.Taldenkov*
*Inst. of Radioengineering and Electronics of RAS, Moscow, Russia; *RRC " Kurchatov Institute", Moscow, Russia*

Wednesday, June 2

8:30 - 10:25 Pinning versus Sliding

8:30 – 8:55

TEMPORALLY-ORDERED COLLECTIVE CREEP AND DYNAMIC TRANSITION IN THE CHARGE-DENSITY-WAVE CONDUCTOR NbSe₃.

S.G. Lemay, R.E. Thorne, Y. Li, and **J.D. Brock**; *Cornell University, Ithaca, NY USA*

8:55 –9:20

DEPINNING AND STABILITY OF DRIVEN PHASES IN A DIRTY ENVIRONMENT
I. Aranson¹, T. Nattermann², S. Scheidl², and **V. Vinokur**¹

{1}Argonne National Laboratory, IL, USA {2}Inst. fur Theoretische Physik, Univ. of Koln, Germany

9:20-9:35

NONEQUILIBRIUM CHARGE DENSITY WAVE TRANSPORT IN NbSe₃

N. Markovic, M. A. H. Dohmen, and H. S. J. van der Zant; *Techn. Univ. of Delft and DIMES, The Netherlands*

9:35 - 9:50

DRIVEN ELASTIC SYSTEM IN A RANDOM ENVIRONMENT

P.Chauve*, T.Giamarchi*, P.Le Doussal+

**Univ. Paris-Sud, Orsay, France +Ecole Normale Supérieure LPT, Paris, France*

9:50-10:10

RELAXATION OF METASTABLE STATES IN SLIDING REGIME.

S. Brazovski*, A. Larkin#

**LPTMS CNRS&Universite Paris-Sud, Orsay, France, #TPI, Univ. Of Minnesota, YSA*

10:10-10:25

METASTABILITY LINE IN BSCCO PHASE DIAGRAM

B. Sas*, F. Portier[^], K. Vad^{**}, S. Meszaros^{**}, B. Keszei^{^^}, L.F. Kiss*, F.I.B. Williams[^]

**Research Institute of Solid State Physics and Optics, Budapest, Hungary;*

*[^]SPEC, CEA, Saclay, France; *Institute of Nuclear Research, Debrecen, Hungary;*

^{^^} Research Institute for Materials Science, Budapest, Hungary.

10:25 – 10:55 Coffee break

10:55 - 12:30 Microscopic properties and phase transitions

10:55-11:15

POWER LAW FIELD DEPENDENCE OF THE 2D MAGNETORESISTANCE IN (TMTSF)₂PF₆

G. Kriza,*# G. Szeghy,# I. Kezsmarki#and G. Mihaly#

**Research Institute for Solid State Physics and Optics, Budapest, Hungary*

Institute of Physics, Technical University, Budapest, Hungary

11:15 -11:30

UNCONVENTIONAL SPIN DENSITY WAVES IN QUASI-ONE DIMENSIONAL SYSTEMS

B. Dora* and A. Virosztek*#

**Department of Physics, Technical University of Budapest, Hungary*

#*Research Institute for Solid State Physics and Optics, Budapest, Hungary*

11:30- 11:45

MAGNETIC PROPERTIES ON THE SPIN-DENSITY WAVE OF (TMTSF)₂X AND (TMTTF)₂Br

N.Matsunaga[^], Y.Hosokawa[^], H.Iwasaki[^], K.Nomura[^], S.Takasaki, J.Yamada, S.Nakatsuji[~],

H.Anzai[~], T.Nakamura*, T.Takahashi*, G.Saito#

[^]*Div. of Physics, Hokkaido Univ., Sapporo, Japan; *Dep. of Chemistry, Kyoto Univ., Japan*

[~]*Dept. of Mat. Sci., Himeji Inst. of Tech., Kamigohri, Japan; *Dept. of Physics, Gakushuin Univ., Tokyo, Japan*

11:45 –12:00

GALVANOMAGNETIC PROPERTIES IN THE SPIN-DENSITY-WAVE PHASE OF (TMTSF)₂PF₆

B. Korin-Hamzic*, M. Basletic**, N. Francetic**, A. Hamzic** and K. Bechgaard***

**Institute of Physics, Zagreb, Croatia, **Department of Physics, Faculty of Science, Zagreb, Croatia ,*

****Department of Solid State Physics, Roskilde, Denmark*

12:00-12:15

PRESSURE EFFECTS ON THE CDW TRANSITIONS AND MAGNETORESISTANCES IN NbSe₃.

S. Yasuzuka, Y. Okajima, S. Tanda, N. Takeshita*, N. Mori* and **K. Yamaya**

*Dep. of Applied Physics, Hokkaido University, Sapporo, Japan; *ISSP, University of Tokyo, Japan*

12:15-12:30

HIGH FIELD MAGNETORESISTANCE NbSe₃ AND EFFECT OF UNIAXIAL STRESS.

G.X. Tessema*, B.K. Gamble*, M.J. Skove* and A.H. Lacerda+

-**Clemson University, USA; +NHMFL - Los Alamos USA*

16:00 – 17:35 High Magnetic Fields

16:00 – 16:20

PROTON NMR STUDY OF THE FIELD-INDUCED SPIN-DENSITY WAVE STATES OF (TMTSF)₂PF₆

S. E. Brown*, W. G. Clark*, M. Pieper*, D. S. Chow*, A.Lacerda#, and B. Alavi*

**UCLA, Los Angeles, USA; #Pulsed Field Facility of the NHMFL, Los Alamos, USA*

16:20 -16:40

QUANTUM HALL EFFECT, CHIRAL EDGE STATES, AND FIELD INDUCED SPIN DENSITY WAVES IN (TMTSF)₂PF₆.

W. Kang; *James Franck Inst. and Dept. of Physics, Univ. of Chicago, USA*

16:40 -16:55

TEMPERATURE EVOLUTION OF THE QUANTUM HALL EFFECT IN THE FISDW STATE: THEORY vs EXPERIMENT

V. M. Yakovenko and H.-S. Goan; *University of Maryland, College Park, USA*

16:55 –17:05

SIGN REVERSAL OF THE QUANTUM HALL EFFECT AND HELICOIDAL MAGNETIC-FIELD-INDUCED SPIN-DENSITY WAVES IN ORGANIC CONDUCTORS

N.Dupuis* and V. M. Yakovenko#

**Universite Paris XI, Orsay, France #University of Maryland, College Park, USA*

17:05-17:20

ORBITAL AND PAULI EFFECTS OF MAGNETIC FIELD ON CHARGE DENSITY WAVES

A.Bjelis*, D. Zanchi# and G. Montambaux+

**Dep. of Physics, University of Zagreb, Croatia; #LPTHE, Univ. Pierre et Marie Curie, Paris, France*

+Laboratoire de Physique des Solides, Universite Paris-Sud, Orsay, France

17:20-17:35

HIGH FIELD OPTICAL RESPONSE OF η -Mo₄₀11

Z. Zhu(1), V.C. Long(1), **J.L. Musfeldt**(1), X. Wei(2), J. Sarrao(2) Z.Fisk(2), H. Negishi(3), M. Inoue(3), H.-J. Koo(4) and

M.-H. Whangbo(4);

(1) Dept. of Chemistry, SUNY at Binghamton, NY USA; (2)NHMFL, Florida State Univ., Tallahassee, USA

(3) Graduate School of Advanced Sciences of Matter, Hiroshima University, Japan

(4) Department of Chemistry, North Carolina State University, USA

17:35 – 17:50 Coffee break

17:50 – 18:30 Poster presentations II

MAGNETIC FIELD DEPENDENCE OF THE SDW TRANSITION IN (TMTSF)₂CLO₄

N.Matsunaga*[^], A.Briggs*, A.Ishikawa[^], K.Nomura[^], S.Takasaki[~], J.Yamada[~], S.Nakatsuji[~], H.Anzai[~];

**CRTBT-CNRS, Grenoble, France; [^]Div. of Physics, Hokkaido Univ., Sapporo, Japan;*

~Dept. of Mat. Sci., Himeji Inst. of Tech., Kamigohri, Japan

THE SQUARE VORTEX LATTICE IN ISOTROPIC P-WAVE SUPERCONDUCTORS

J. Shiraishi*, **K. Maki**[^]; **Institute Math. Science, Tokyo, Japan*, [^]*USC, Los Angeles, USA*

CONDUCTION ANISOTROPY OF THE BECHGAARD SALTS

I. Kezsmarki*, G. Mihaly*, F. Zamborszky* and L. K. Montgomery[^]

**Technical University of Budapest, Institute of Physics, Budapest, Hungary*,

[^]*University of Indiana, Department of Chemistry, Bloomington, USA*

COLLECTIVE MODES AND RADIATION FROM GLIDING JOSEPHSON VORTEX LATTICE IN LAYERED SUPERCONDUCTORS.

S.N. Artemenko, S.V. Remizov; *Inst. for Radioengineering and Electronics, RAS, Moscow, Russia*

OUT-OF-PLANE SUPERFLUID DENSITY OF A LAYERED ORGANIC SUPERCONDUCTOR:

EVIDENCE FOR THE JOSEPHSON COUPLING

S. Tomic*, M. Pinteric*, **, K. Maki[#], M. Prester*, Đ. Drobac*, O. Milat*, D. Schweitzer[^],

I. Heinen^{^^}, W. Strunz^{^^}

**Inst. of Physics, Zagreb, Croatia*, ** *Fac. of Civil Engineering, Univ. of Maribor, Slovenia*;

[#] *Dept. of Physics and Astronomy, USC, Los Angeles, USA*, [^] *3. Physikalisches Inst., Univ. of Stuttgart, Germany*;

^{^^} *Anorganisch-chemisches Institut, Universitaet Heidelberg, Germany*

IMAGING CHARGE-DENSITY-WAVE SHEAR IN NbSe₃

Y. Li, K. O'Neill, J. Price, C. Cicak, S. Lemay, K. Ringland, K. D. Finkelstein, J. D. Brock, and

R. E. Thorne; *Cornell University, Ithaca, NY USA*

DYNAMICS OF FORMATION OF SOLITON CONDUCTIVITY IN A 2D-ARRAY OF LINEAR CHAINS CONTAINING COMMENSURATE CDW NEAR THE CONTACT WITH A NORMAL METAL

Y.V. Pershin, Alexander S. Rozhavsky

B.I. Verkin Institute for Low Temperature Physics and Engineering, Kharkov, Ukrain.

"VISCOUS INTERACTION" EFFECT OF DISCOMMENSURATIONS WITH DEFECTS

S. Sveleba, **V. Zhmurko**, Yu. Pankivskyi, Yu. Furgala and I. Katerynchuk

Ivan Franko State University of Lviv, Ukraine

TOPOLOGICAL COUPLING OF DISLOCATIONS AND MAGNETIZATION

VORTICITY IN

SPIN DENSITY WAVES.

N. Kirova and S. Brazovski; *LPTMS CNRS, Orsay, France*

SPATIALLY-RESOLVED STUDIES OF CHARGE-DENSITY-WAVE DYNAMICS AND PHASE SLIP IN NbSe₃

S.G. Lemay*, T.L. Adelman*, C. Cicak*, S.V. Zaitsev-Zotov[^], and **R.E. Thorne***

**Cornell University, Ithaca, NY USA*; [^]*Radioengineering Institute, Moscow, Russia*

STRONTIUM ADDING EFFECTS IN Pr_{0.65}Ca_{0.35}MnO₃

R.D. Sanchez*, **H.R. Salva***, A. Caneiro*, D.Niebieskikwiat* and P. Monceau^

**Centro Atómico Bariloche and Instituto Balseiro, CNEA, Argentina*

^*CRTBT CNRS, Grenoble, France*

ROLE OF ELECTRON-LATTICE INTERACTIONS IN DETERMINING THE
MAGNETIC

STRUCTURE OF INSULATING MANGANITES

M. Grilli (*) and D.Feinberg (#)

* *Dpt. di Fisica, Universita' di Roma "La Sapienza", Italy*; # *LEPES-CNRS, Grenoble, France*

DENSITY WAVE SHORT RANGE ORDERING in 2D ELECTRON SYSTEM CLOSE TO
ELECTRONIC TOPOLOGICAL TRANSITION APPLICATION TO HIGH-T_c
CUPRATES.

F. Onufrieva and P. Pfeuty

Laboratoire Leon Brillouin, CEA Saclay, France

EVIDENCE FOR A THRESHOLD FORCE FOR DISPLACEMENT TRANSVERSE TO
CURRENT

FOR 2-D WIGNER SOLID IN A DISORDER FIELD

Perruchot*, Gaal*, Sas**, Mellor+, Harris++, Etienne+++, Henini+, **Williams***

**SPEC, CEA Saclay, France*; ** *Res. Inst. for Solid State Physics, Budapest, Hungary*;

+*Univ. of Nottingham, UK*; ++ *Univ. of London, UK*; +++ *LMM, CNRS, Bagneux, France*.

DRIVEN PHASES IN DISORDERED LATTICES.

S. Scheidl*, **V.M. Vinokur**#

University of Koeln, Germany

#Argonne National Laboratory, 9700 South Cass Avenue, Argonne, IL 60439

Thursday, June 3

8:30 - 10:25 Special Section

8:30-8:55

IS ANYTHING ABOUT THE BECHGAARD SALTS “NORMAL”?

METALLIC AND SUPERCONDUCTING STATES IN ORIENTED MAGNETIC FIELDS.

P.Chaikin; *Princeton Univ., USA*

8:55-9:15

DISSIPATION EFFECTS ON THE SUPERCONDUCTOR-INSULATOR TRANSITION IN
2-D SUPERCONDUCTORS

Aharon Kapitulnik and Nadya Mason

Departments of Physics and Applied Physics, Stanford University, CA USA

9:15 -9:35

THE PSEUDOGAP AND THE OUT OF PLANE OPTICAL CONDUCTIVITY IN D-WAVE SUPERCONDUCTORS

Kazumi Maki*, Hyekyung Won~

*USC, Los Angeles, USA, ~Hallym Univ. Chunchon, S.Korea

9:35-9:50

CHARGE SOLITONS IN LAYERED SUPERCONDUCTORS

Yu.I. Latyshev*# and T. Yamashita*

*Research Institute of Electrical Communication, Tohoku University, Sendai, Japan;

#Institute of Radio Engineering and Electronics RAS, Moscow, Russia

9:50 – 10:05

FORMATION OF ELECTRON STRINGS

F. V. Kusmartsev

Loughborough, LE11, 3TU, U.K. and L D Landau Institute, Moscow, Russia

10:05-10:25

VORTICES, DUALITY AND FLUCTUATIONS IN SUPERCONDUCTORS'

Z. Tesanovic; Johns Hopkins University, Baltimore, Maryland, USA

10:25 – 10:55 Coffee break

10:55 - 12:30 Plastic Flows

10:55-11:15

PHASE SLIP AND DISLOCATIONS IN THE MOTION OF CHARGE-DENSITY WAVES

J.C. Gill; University of Bristol, U.K.

11:15-11:35

MOBILITY OF GLIDING DISLOCATION LOOPS AND THEIR CONTRIBUTION TO CONDUCTIVITY OF CDW-CONDUCTORS.

S.N. Artemenko*, F. Gleisberg#, W. Wonneberger#

*Institute for Radioengineering and Electronics of the RAS, Moscow, Russia, #University of Ulm, Germany

11:35-11:55

PLASTICITY IN PINNED AND MOVING VORTEX PHASES.

S.Bhattacharya

NEC Research Institute, Princeton, NJ USA

11:55 –12:15

CONTRIBUTIONS OF THE HIGH-ENERGY EXITATIONS TO THE LINEAR AND NON LINEAR CONDUCTION NEAR THE PEIERLS TRANSITION

V.Ya.Pokrovskii and **S.V.Zaitsev-Zotov**

Institute of Radioengineering and Electronics RAS, Moscow, Russia

12:15 –12:30

TRANSPORT PROPERTIES OF VORTICES IN EASY FLOW CHANNELS:
A FRENKEL-KONTOROVA STUDY

R.Besseling, R. Niggebrugge and P.H. Kes

Kamerlingh Onnes Laboratory, Leiden University, Netherlands

Friday, June 4

8:30 - 10:30 Mesoscopics, Tunneling, Junctions

8:30 – 8:50

CDW TRANSPORT IN MESOSCOPIC STRUCTURES OF SUBMICRON AND
NANOMETER SCALE

Yu.I.Latyshev*+, P.Monceau#, O.Laborde#, B.Pennetier#, V.Pavlenko*+ and T.Yamashita*

*Research Institute of Electrical Communications, Sendai, Japan,

+Institute of Radio-Engineering and Electronics RAS, Moscow, Russia,

Centre de Recherches sur les Tres Basses Temperatures, CNRS, Grenoble, France

8:50-9:10

QUANTUM PHENOMENON IN MESOSCOPIC CHARGE DENSITY WAVE
CONDUCTORS

A. S. Rozhavsky

B.I.Verkin Institute for Low Temperature Physics and Engineering, Kharkov, Ukraine

9:10- 9:30

NbSe₃ WIRES

H.S.J. van der Zant*, O.C. Mantel*, A. Kalwij*, Yu. I. Latyshev**, B. Pannetier** and P.
Monceau**

**Delft University of Technology, The Netherlands; ** CRTBT, Grenoble, France*

9:30- 9:45

5. THEORY OF TIME-CORRELATED TUNNELING OF DENSITY WAVE SOLITONS

J.H. Miller Jr., C. Ordonez, and E. Prodan; *University of Houston, Texas, U.S.A.*

9:45 –10:00

CLASSICAL AND QUANTUM DEPINNING OF CHARGE DENSITY WAVES AND THE
RELATION TO THE FRICTION

H. Matsukawa*, H.Miyake*, M.Yumoto*, H.Fukuyama# and T. Kawaguchi+

**Dep. of Phys., Osaka Univ., Toyonaka, Japan; #Inst. for Solid State Physics, Univ.of Tokyo,
Japan;*

+Dep. of Technology, Fac. of Education, Shimane University, Matsue, Japan

10:00 –10:15

POINT-CONTACT SPECTROSCOPY OF QUASI-1D CONDUCTORS WITH CDW.

A. A. Sinchenko, Yu. I. Latyshev, S. G. Zybtsev, I. G. Gorlova

*Moscow State Engineering Physics Inst., Russia; Inst. of Radio Technology and Electronics
RAS, Moscow, Russia*

10:15 –10:30

NANO-FABRICATION OF CDW AND ITS NEGATIVE RESISTANCE PHENOMENUM
H. Kubota*, T.Sumita*, S.Takami*, T. Shinada#, Iwao Ohdomari#
**Kumamoto University, Japan, #Waseda University, Tokyo, Japan*

10:30 – 11:00 Coffee break

11:00 - 12:20 Space Resolved Studies and Contact Effects

11:00-11:20
CONTACT AND BULK ELECTROMODULATED TRANSMISSION SPECTRA OF
BLUE BRONZE
J.W. Brill*, B.M. Emerling*, M.E. Itkis; *University of Kentucky, Lexington, KY, U.S.A.*

11:20-11:40
UNIVERSAL TEMPERATURE DEPENDENCE FOR CHARGE-DENSITY-WAVE
PHASE SLIP AND EVIDENCE FOR A CDW MELTING TRANSITION AT 0.75T_p
J.P. McCarten*, Xinlei Wu*, John H. Miller Jr#, Iain Pirtle#, Xinwen Xu#, James R.
Claycomb#, Jia-Rui Liu#, Wei-Kan Chu#.
**Dept. of Physics and Astronomy, Clemson University, SC, USA,*
#Dept of Physics and Texas Center for Superconductivity, Univ. of Houston, USA

11:40-12:00
SPACE- AND TIME-RESOLVED X-RAY DIFFRACTION FROM PINNED AND
SLIDING CHARGE-DENSITY-WAVES IN NbSe₃.
H.Requardt*, F.Ya Nad⁺, P.Monceau#, R.Currat**, J.E.Lorenzo###, D.Rideau**,
D.Smilgies++ and G.Grubel++,
**MPI-MF, Stuttgart, Germany; #CRTBT/CNRS, Grenoble, France; +Inst. of Radioengin. and
Electr., Moscow, Russia;*
***ILL, Grenoble, France; ###Cristallographie/CNRS, Grenoble, France; ++ESRF, Grenoble,
France*

12:00-12:20
THEORY OF CURRENT CONVERSION.
N. Kirova, S. Brazovskii
LPTMS CNRS, Orsay, France.

16:00 – 17:15 Charge Ordering and Stripe Phases I

16:00-16:25 oral 25 min
CHARGE ORDERING AND ITS ANOMALOUS MELTING IN MIXED-VALENT
MANGANITES
C. H. Chen; *Bell Laboratories, Lucent Technologies, USA*

16:25-16:45 oral 20 min
PHOTOINDUCED AND CURRENT-DRIVEN INSULATOR/METAL TRANSITION IN
MANGANITES:
A FLUCTUATING ROUTE

K. Miyano, *University of Tokyo, Japan.*

16:45 –17:00 ORAL 15 min

STABILITY OF CHARGE-ORDERING AND H-T DIAGRAMS OF $RE_{1-x}Ca_xMnO_3$
MANGANITES
IN PULSED FIELDS UP TO 50T.

M. Goiran,^a M. Respaud,^a J. M. Broto,^a H. Rakoto,^a A. Llobet,^b C. Frontera,^b J.L. Garcia-Muñoz^b and J. Vanacken.^c

^a *SNCMP, LPMC, Toulouse, France*, ^b *ICMAB-CSIC, Barcelona, Spain*. ^c *LVSM, Leuven, Belgium.*

17:00- 17:15 oral 15 min

STRIPE DYNAMICS IN PRESENCE OF DISORDER AND LATTICE POTENTIALS
C. Morais Smith; *Inst. de Physique Theorique, Univ. de Fribourg, Switzerland*

17:15 – 17:30 Coffee break

17 :30 – 18:30 Charge Ordering and Stripe Phases II

17:30 -17:50

THE STRIPE SCENARIO IN HIGH T_c SUPERCONDUCTORS
A. Bianconi; *Dep.t of Physics, Univ. of Rome ``La Sapienza'' Italy*

17:50 –18:10

SPIN DENSITY WAVE SCENARIO IN HIGH- T_c CUPRATES
AGAINST THE STRIPES SCENARIO.

P. Pfeuty and F. Onufrieva; *Lab. Léon Brillouin, CEA Saclay, France*

18:10 –18:30

SPIN AND CHARGE INHOMOGENEITY AS A KEY TO THE PHYSICS OF CUPRATES
C. Castellani, C. Di Castro and **M. Grilli**

Dipartimento di Fisica, Universita' di Roma ``La Sapienza'' , Italy

Saturday, June 5

8:30 - 10:15 Materials, Structures, Phases

8:30-8:45

SUPERSTRUCTURES AND CHARGE-ORDER IN NaV_2O_5 AND PHOSPHATE
BRONZES

S. van Smaalen and J. Ludecke; *Lab. of Crystallography, Univ. of Bayreuth, Germany*

8:45 –9:00

TRANSPORT PROPERTIES AND CDW INSTABILITIES OF THE QUASI-TWO-
DIMENSIONAL MONOPHOSPHATE TUNGSTEN BRONZES $(PO_2)_4(WO_3)_2m$ and
 $K_xP_4W_8O_{32}$

U. Beierlein¹, S. Drouard¹, **J. Dumas**¹, C. Schlenker¹, D. Groult², Ph. Labbé², P. Roussel², G. Bonfait³ and M. Greenblatt⁴
¹LEPES, C.N.R.S, Grenoble, France; ²CRISMAT, ISMRA, Université de Caen, France;
³Dept Quimica, ITN, Sacavem Codex, Portugal ; ⁴Dept Chemistry, Rutgers Univ., USA

9:00 -9:15

RING-SHAPED CRYSTALS OF NbSe₃ AND TaSe₃

S.Tanda, H.Kawamoto, M.Shiobara, Y.Okajima and K.Yamaya
Dept. of Appl. Phys., Hokkaido Univ., Sapporo, Japan

9:15 -9:30

OBSERVATION OF AN ANOMALOUS RESISTIVITY IN BLUE BRONZE DEPENDING ON A SPECIFIC THERMAL TREATMENT.

J. Richard*, B. Zawilski*, J. Marcus #, J. Dumas#.
**CRTBT CNRS, Grenoble, France, #LEPES CNRS, Grenoble, France.*

9:30-9:45

QUANTUM AND/OR THERMAL MELTING OF A POLARON WIGNER CRYSTALS.
S. Fratini and **P. Quemerais**; *LEPES CNRS, Grenoble, France.*

9:45-10:05

WEAK FERROMAGNETIC PHASE IN KAPPA-(BEDT-TTF)₂Cu[N(CN)₂]Cl:
LOW-FREQUENCY DIELECTRIC RESPONSE AND NON-LINEAR DC ELECTRICAL
TRANSPORT

S.Tomic*, M.Pinteric*,**, N.Biskup*, D.Schweitzer#, W.Strunz+ and I.Heinen+
**Institute of Physics, Zagreb, Croatia; + Anorganisch-chemisches Inst., Univ. Heidelberg, Germany;*
*** Fac. of Civil Eng., Univ. of Maribor, Slovenia; #.Physik. Inst., Univ.Stuttgart, Germany,*

10:05 – 10:55 Coffee break

10:35 - 11:55 2D Electronic Crystals

10:35 –10:55

STUDIES OF MICROWAVE RESONANCE IN HIGH MAGNETIC FIELD WIGNER
CRYSTAL REGIME
OF 2D HOLE SYSTEMS IN HETEROSTRUCTURES.

L.W. Engel*, C.-C. Li#, J. Yoon#, D. C. Tsui# and M. Shayegan#

**NHMFL/FSU, Tallahassee, USA; #Dept. of Electrical Eng., Princeton Univ., USA.*

10:55-11:10

DYNAMICAL RESPONSE OF A WEAKLY PINNED TWO-DIMENSIONAL WIGNER
CRYSTAL

M.M. Fogler*, D. A. Huse#; **Inst. for Advanced Study, Princeton, USA, #Princeton Univ., USA*

11:10 –11:25

ANISOTROPY OF MAGNETORESISTANCE OF TWO-DIMENSIONAL ELECTRONS IN WEAK MAGNETIC FIELDS.

S. Scheidl*, B. Rosenow*, V.M. Vinokur#

*Inst. Theoret. Physics, Univ. Cologne, Germany; #Materials Sci. Div., Argonne National Laboratory, USA

11:25 –11:40

COLLECTIVE MODES AND UNLOCKING OF QUANTUM HALL STRIPES

H.A. Fertig, *University of Kentucky, Lexington, USA*

11:40 –11:55

INSTABILITY AND RECONSTRUCTION OF THE CHARGED, LIQUID FILMS.

V.B.Shikin, *ISSP, Chernogolovka, Moscow District, Russia*

12:00 – 12 :30 Closing