

Lectures

SEPTEMBER 26 (MONDAY)

September 26 (Monday) 8:40 - 9:00

Opening

September 26 (Monday) 9:00 - 10:30

Oral Session 1

Chairman: [D. Schweitzer](#)

9:00 - 9:30

I - 1 Charge Ordering in Low Dimensional Organic Conductors: Structural Aspects
J.-P. Pouget (Université Paris-Sud, CNRS, France)

9:30 - 9:50

O - 1.1 Pressure and Temperature-Dependent Transport in $(\text{TMTTF})_2\text{X}$: Anisotropy, Localization Effects, Charge and Anion Orderings
M. Dressel (Universität Stuttgart, Germany)

9:50 - 10:10

O - 1.2 Charge Ordering and Dimensionality in a Generic Phase Diagram for TMTTF Salts
K. Yoshimi (University of Tokyo, Japan)

10:10 - 10:30

O - 1.3 Role of Anion Dynamics in Determining the Electronic States of $(\text{TMTSF})_2\text{FSO}_3$ under Pressure: ^{19}F -NMR Analysis
T. Takahashi (Gakushuin University, Japan)

Break (10:30 - 11:00)

September 26 (Monday) 11:00 - 13:10

Oral Session 2

Chairman: [A. Jánossy](#)

11:00 - 11:30

I - 2 Influence of Randomness on the Mott Transition in κ -(BEDT-TTF) $_2\text{X}$
T. Sasaki (Tohoku University, Japan)

11:30 - 11:50

O - 2.1 Universal Critical Slowing Down of the Electron Dynamics Near the Mott Transition in κ -(BEDT-TTF) $_2\text{X}$
J. Müller (Goethe-University Frankfurt, Germany)

11:50 - 12:10

O - 2.2 Instability of Charge Ordered States Probed in Nano-Sized ET Salts
K. Kobayashi (Aoyama Gakuin University, Japan)

12:10 - 12:30

- O - 2.3 Electric-Field Induced Metastable State for the Charge-Ordered Molecular Crystals with Relaxation Time from Msec to Months
H. Mori (University of Tokyo, Japan)

12:30 - 12:50

- O - 2.4 Magnetotransport in Organic Dirac Fermion System at the Quantum Limit: Interlayer Hall Effect and Surface Transport via Helical Edge State
T. Osada (University of Tokyo, Japan)

12:50 - 13:10

- O - 2.5 Uniaxial-Strain-Orientation Dependence of the Competition Between Superconductivity and Mott/Charge Ordered Phases of β -(BDA-TTP)₂I₃
Md. Nuruzzaman (Osaka City University, Japan)

Lunch (13:10 - 15:00)

September 26 (Monday) 15:00 - 16:50

Oral Session 3

Chairman: [M. Lang](#)

15:00 - 15:30

- I - 3 Molecular Quantum Spin Liquid with Tunable Triangular Lattice
R. Kato (RIKEN, Japan)

15:30 - 15:50

- O - 3.1 Magnetic and Non-Magnetic Phases of Molecule-Based Quantum Spin Liquids
F.L Pratt (Rutheford Appleton Laboratory, UK)

15:50 - 16:10

- O - 3.2 Design of Triangular Spin Lattice and 2D Organic Metal of C₆₀
G. Saito (Meijo University, Japan)

16:10 - 16:30

- O - 3.3 Magnetic Field Induced Spin Fluctuations in the Two-Dimensional Organic Conductor: κ -ET₂Cu[N(CN)₂]Cl
Á. Antal (Budapest University of Technology and Economics, Hungary)

16:30 - 16:50

- O - 3.4 Magnetism in the ¹/₄ Filled Quasi-One-Dimensional Compound [EDT-TTF-CONMe₂]₂AsF₆
B. Náfrádi (Budapest University of Technology and Economics, Hungary)

Break (16:50 - 17:20)

September 26 (Monday) 17:20 - 18:50

Oral Session 4

Chairman: [G. Saito](#)

17:20 - 17:50

- I - 4 Gold Dithiolene Single-Component Molecular Conductors
D. Lorcy (Université de Rennes 1, CNRS, France)

17:50 - 18:10

- O - 4.1 Single-Component Multifrontier π -d System, [Cu(dmdt)₂] with Twisted Molecular Structure and Magnetic Phase Transition Around 100 K
A. Kobayashi (Nihon University, Japan)

18:10 - 18:30

- O - 4.2 Multi-Orbital Hubbard Model and Magnetic Ground States in M(dmdt)₂
H. Seo (RIKEN, Japan)

18:30 - 18:50

- O - 4.3 Synthesis, Structures and Physical Properties of BDT-TTPs with Methoxy Groups
T. Shirahata (Ehime University, Japan)

Dinner (19:00 - 20:00)

Poster Session 1 (20:00 - 22:00)

SEPTEMBER 27 (TUESDAY)

September 27 (Tuesday) 8:40 - 10:30

Oral Session 5

Chairman: [S. Kagoshima](#)

8:40 - 9:10

- I - 5 The Correlation Between Antiferromagnetism and Superconductivity in the Bechgaard Salts
C. Bourbonnais (Université de Sherbrooke, Canada)

9:10 - 9:30

- O - 5.1 The Two Faces of κ -ET and β' -DMIT: $1/2$ -filled Antiferromagnet versus $1/4$ -filled Superconductor
R.T. Clay (Mississippi State University, USA)

9:30 - 9:50

- O - 5.2 Is there a Common Theme Behind Correlated-Electron Superconductivity in the Organic Charge-Transfer Solids, Cobaltates, Spinels, and Fullerides?
S. Mazumdar (University of Arizona, Tucson, USA)

9:50 - 10:10

- O - 5.3 The Fulde-Ferrell-Larkin-Ovchinnikov State in the Layered Organic Superconductor κ -(BEDT-TTF)₂Cu(NCS)₂
J. Wosnitza (Helmholtz-Zentrum Dresden-Rossendorf, Germany)

10:10 - 10:30

- O - 5.4 Direct Evidence of Paramagnetic Pair-Breaking in the Extremely Anisotropic Superconductor α -(BEDT-TTF)₂KHg(SCN)₄
M.V. Kartsovnik (Walther-Meissner-Institut, Garching, Germany)

Break (10:30 - 11:00)

September 27 (Tuesday) 11:00 - 13:10

Oral Session 6

Chairman: [S. Mazumdar](#)

11:00 - 11:30

- I - 6 Towards First Principles Theories for Organic Charge Transfer Salts
B.J. Powell (University of Queensland, Australia)

11:30 - 11:50

- O - 6.1 Ab initio Studies of Organic Charge Transfer Salts
H.O. Jeschke (Goethe-Universität Frankfurt, Germany)

11:50 - 12:10

- O - 6.2 Geometrical Frustration, Electron Correlations and Quantum Criticality in Quarter-Filled Layered Organic Materials
L. Cano-Cortés (Universidad Autónoma de Madrid, Spain)

12:10 - 12:30

- O - 6.3 Multimode Peierls Distortion in Triangular Lattice
A. Terai (Osaka City University, Japan)

12:30 - 12:50

- O - 6.4 Stark Effect in Magnetic Molecules
B.R. Buřka (Institute of Molecular Physics PAS, Poznań, Poland)

12:50 - 13:10

- O - 6.5 Fluctuating Superconductivity Under In-Plane Magnetic Field in a Strongly Correlated Superconductor κ -(BEDT-TTF)₂Cu[N(CN)₂]Br
S. Tsuchiya (National Institute for Materials Science, Japan)

Lunch (13:10 - 15:00)

September 27 (Tuesday) 15:00 - 16:50

Oral Session 7

Chairman: [J. Wosnitza](#)

15:00 - 15:30

- I - 7 Superconducting Gap Structure and Phase Diagram of (TMTSF)₂ClO₄ Studied by Field Angle Resolved Calorimetry
S. Yonezawa (Kyoto University, Japan)

15:30 - 15:50

- O - 7.1 Vortex Dynamics in Superconducting State for λ -(BETS)₂GaCl₄
S. Uji (National Institute for Materials Science, Japan)

15:50 - 16:10

- O - 7.2 Enhanced T_c in a Dual-Layered Molecular Superconductor
J.A. Schlueter (Argonne National Laboratory, USA)

16:10 - 16:30

- O - 7.3 Torque Investigation of the Superconducting Phase Diagram and Irreversibility in (TMTSF)₂ClO₄
M.J. Naughton (Boston College, USA)

16:30 - 16:50

- O - 7.4 Hysteretic Successive Field-Induced CDW Phases in HMTSF-TCNQ
K. Murata (Osaka City University, Japan)

Break (16:50 - 17:20)

September 27 (Tuesday) 17:20 - 18:50

Oral Session 8

Chairman: [M. Kartsovnik](#)

17:20 - 17:50

- I - 8 Quantum Interference Effects and Bandwidth Control in the Ultrafast Dynamics of a Low Dimensional Mott Insulator
S. Wall (Fritz Haber Institute of the Max Planck Society, Berlin, Germany)

17:50 - 18:10

- O - 8.1 10 fs to 100 ps Dynamics of Photoinduced Phase Transition in Charge Transfer Complexes
K. Onda (Tokyo Institute of Technology, Japan)

18:10 - 18:30

- O - 8.2 Ultrafast Snapshots of Light-Electron-Vibration Interactions in α -, θ -, and κ -type BEDT-TTF Salts
S. Iwai (Tohoku University, Japan)

18:30 - 18:50

- O - 8.3 First-Principles Optical Properties in Quasi-1D Molecular Solids: Photoinduced Phase Transition in $(\text{EDO-TTF})_2\text{PF}_6$
K. Iwano (Institute of Materials Structure Sciences, KEK, Japan)

CONCERT (19:15 - 20:00)

Dinner (20:00 - 21:00)

SEPTEMBER 28 (WEDNESDAY)

September 28 (Wednesday) 8:40 - 10:30

Oral Session 9

Chairman: [A. Girlando](#)

8:40 - 9:10

- I - 9 Magneto-Elastic Coupling in the Molecule-Based Materials
J.L. Musfeldt (University of Tennessee, USA)

9:10 - 9:30

- O - 9.1 Zeeman Effects and High-Field Superconductivity in κ -(BEDT-TTF)₂Cu(NCS)₂
S.E. Brown (Department of Physics and Astronomy, UCLA, USA)

9:30 - 9:50

- O - 9.2 Angular Magnetoresistance Oscillations of Quasi-Two-Dimensional Systems in a Very Strong Magnetic Field
W. Kang (Ewha Womans University, Korea)

9:50 - 10:10

- O - 9.3 Magnetic Breakdown Effects in the Magnetothermopower of α -(ET)₂KHg(SCN)₄
D. Krtsovska (Florida State University, Tallahassee, USA)

10:10 - 10:30

- O - 9.4 High Magnetic Field Investigation of a Low-Dimensional Organic Conductor Per₂Pt[mnt]₂
E.L. Green (Florida State University, Tallahassee USA)

Break (10:30 - 11:00)

September 28 (Wednesday) 11:00 - 13:10

Oral Session 10

Chairman: [A. Graja](#)

11:00 - 11:30

- I - 10 Reduced Influence of Electronic Correlations in a Half-Filled System: Metallic Properties and Metal-Insulator Transition in κ -(ET)₂Hg(SCN)₂Cl
N. Drichko (Universität Stuttgart, Germany)

11:30 - 11:50

- O - 10.1 A Rich Variety in Ground States of [Pd(dmit)₂]₂ Salts, and Methodology for Analyzing Intra-dimer Interactions, Inter-dimer Interactions and MO Levels
T. Yamamoto (Osaka University, Japan)

11:50 - 12:10

- O - 10.2 Spectroscopic Characterization of Charge order Fluctuations in BEDT-TTF Metals and Superconductors
A. Girlando (University of Parma, Italy)

12:10 - 12:30

- O - 10.3 Electronic Raman Scattering Measurements in α -(BEDT-TTF)₂I₃
H. Kishida (Nagoya University, Japan)

12:30 - 12:50

- O - 10.4 Hard X-Ray Photoemission: Spectroscopic Fingerprint of Stepwise Localization in the Anomalous Metallic Regime of κ -(BEDT-TTF)₂Cu[N(CN)₂]Br
G. Schönhense (J. Gutenberg Universität Mainz, Germany)

12:50 - 13:10

- O - 10.5 NEXAFS and HAXPES of Novel Charge Transfer Complexes
K. Medjanik (J. Gutenberg Universität Mainz, Germany)

Lunch (13:10 - 15:00)

September 28 (Wednesday) 15:00 - 16:50

Oral Session 11

Chairman: [M. Almeida](#)

15:00 - 15:30

- I - 11 Hybrid Magnetic Superconductors by Chemical Design
E. Coronado (Universidad de Valencia, Spain)

15:30 - 15:50

- O - 11.1 Probing a Double-Decker Phthalocyanine Terbium(III) Single-Molecule Magnet In Reduced Dimensionalities (0D and 2D) with MCD and XMCD
M. Gonidec (Institut de Ciència de Materials de Barcelona CSIC, Spain)

15:50 - 16:10

- O - 11.2 Spin-Charge Coupling in a Series of (DIETSe)₂FeX₄
M. Maesato (Kyoto University, Japan)

16:10 - 16:30

- O - 11.3 Effect of π -d Interaction on Conductivity in κ -(BDH-TTP)₂FeX₄ (x=Br, Cl)
K. Sugii (National Institute for Materials Science, Japan)

16:30 - 16:50

- O - 11.4 Magnetic Properties of the Organic Metal κ -(BETS)₂Mn[N(CN)₂]₃ from ¹H and ¹³C NMR
O.M. Vyaselev (Institute of Solid State Physics RAS, Chernogolovka, Russia)

Break (16:50 - 17:20)

September 28 (Wednesday) 17:20 - 18:50

Oral Session 12

Chairman: [S. Brown](#)

17:20 - 17:50

- I - 12 Quantum Criticality, Charge/Lattice Separation and Deconfinement of Spins in Neutral-Ionic Transition
K. Kanoda (University of Tokyo, Japan)

17:50 - 18:10

- O - 12.1 Roles of Molecular Vibrations in Photoinduced Insulator-to-Metal and Neutral-to-Ionic Transitions
K. Yonemitsu (Institute for Molecular Science, Okazaki, Japan)

18:10 - 18:30

- O - 12.2 Electrocrystallisation of (Perylene)₂M(mnt)₂ Salts
M. Almeida (Department of Chemistry ITN, Portugal)

18:30 - 18:50

- O - 12.3 Solid-State & Surface Protonics in Metal-Organic Frameworks
H. Kitagawa (Kyoto University, Japan)

Dinner (19:10 - 20:00)

Poster Session 2 (20:00 - 22:00)

SEPTEMBER 29 (THURSDAY)

September 29 (Thursday) 8:40 - 10:30

Oral Session 13

Chairman: [J. Veciana](#)

8:40 - 9:10

- I - 13 Luminescence and Single Molecule Magnet Behaviour in Ln(III) Complexes Based on Redox Active Ligands Derived From TTFs
L. Ouahab (Université de Rennes 1, France)

9:10 - 9:30

- O - 13.1 Cooper(II) Oxalato: From Molecular Magnet to Magnetic Conductor
B. Zhang (Institute of Chemistry, Chinese Academy of Sciences, China)

9:30 - 9:50

- O - 13.2 Critical Behaviour and Magnetocaloric Effect in Octacyanoniobate Molecular Magnets
M. Makarewicz (Institute of Nuclear Physics PAS, Kraków, Poland)

9:50 - 10:10

- O - 13.3 Novel Crystal Structure and Electronic States of the Organic Superconductor with T_c of 10K Class: κ - δ -(BEDT-TTF)₂Ag(CF₃)₄(TCE)
T. Kawamoto (Tokyo Institute of Technology, Japan)

10:10 - 10:30

- O - 13.4 On the Origin of the Phase Transition in β '-(BEDT-TTF)₄H₃O[Fe(C₂O₄)₃·Solvent Crystal
L.V. Zorina (Institute of Solid State Physics RAS, Chernogolovka, Russia)

Break (10:30 - 11:00)

September 29 (Thursday) 11:00 - 13:10

Oral Session 14

Chairman: [K. Murata](#)

11:00 - 11:30

- I - 14 Organic Electronics Based on Organic Charge-Transfer Complexes
T. Mori (Tokyo Institute of Technology, Japan)

11:30 - 11:50

- O - 14.1 A Robust Molecular Platform for Non-Volatile Memory Devices with Optical and Magnetic Responses Based on Self-Assembled Monolayers of Radicals
J. Veciana (Institut de Ciència de Materials de Barcelona CSIC, Spain)

11:50 - 12:10

- O - 14.2 Ambipolar Organic Mott-FET Based on κ -(BEDT-TTF)₂Cu[N(CN)₂]Cl
H. Yamamoto (RIKEN, Japan)

12:10 - 12:30

- O - 14.3 Frequency- and Time-Domain Spectroscopy of Double and Single Layers of Organic Semiconductors
J. Ulański (Technical University of Łódź, Poland)

12:30 - 12:50

- O - 14.4 Theoretical Characterization of Organic-Molecule / Metal Interfaces
J.I. Martinez (Autonomus University of Madrid, Spain)

12:50 - 13:10

- O - 14.5 Humidity Dependent Properties of a Transparent Conducting Film Doped with BEDO-TTF Complex
H. Yamochi (Kyoto University, Japan)

Lunch (13:10 - 15:00)

Excursion & Free Time (15:00 - 19:00)

BANQUET (19:30 - 22:30)

SEPTEMBER 30 (FRIDAY)

September 30 (Friday) 8:40 - 10:30

Oral Session 15

Chairman: [J. Schlueter](#)

8:40 - 9:10

- I - 15 Control of Electron Correlation by Difference of Stereochemistry in Donor Molecules
J. Yamada (University of Hyogo, Japan)

9:10 - 9:30

- O - 15.1 Halogen Bonding in Organic Conductors: more than an Intermolecular Interaction
M. Fourmigué (Université de Rennes 1, CNRS, France)

9:30 - 9:50

- O - 15.2 Polymeric Films "Self-Metallized" with Organic Molecular Conductors
C. Rovira (Institut de Ciència de Materials de Barcelona CSIC, Spain)

9:50 - 10:10

- O - 15.3 Physical Characterization of Functionalized Spider Silk for Electronic and Sensing Applications
E. Steven (Florida State University, USA)

10:10 - 10:30

- O - 15.4 Supramolecular Chirality in Tetrathiafulvalenes Derivatives
N. Avarvari (University of Angers, France)

Break (10:30 - 11:00)

September 30 (Friday) 11:00 - 12:50

Oral Session 16

Chairman: [M. Dressel](#)

11:00 - 11:30

- I - 16 Ten Years of the Electronic Ferroelectricity in Organic Materials: From Optics of Solitons to Critical Dynamics of Domain Walls
S. Brazovski (Université Paris-Sud, CNRS, France)

11:30 - 11:50

- O - 16.1 Dielectric Anomaly in Dimer Mott Insulators
M. Abdel Jawad (RIKEN, Japan)

11:50 - 12:10

- O - 16.2 First-Principles Calculations of Spontaneous Polarization for TTF-QBrCl₃
S. Ishibashi (Nanosystem Research Institute "RICS", Japan)

12:10 - 12:30

- O - 16.3 Photoinduced Ferroelectric Fluctuation in Dimer Mott Insulator
 κ -(ET)₂Cu₂(CN)₃
K. Itoh (Tohoku University, Japan)

12:30 - 12:50

- O - 16.4 Charge Order-Disorder Phase Transition Detected by ESR in
 α' -(BEDT-TTF)₂IBr₂
A. Chernenkaya (Institute of Problems of Chemical Physics, Russia)

September 30 (Friday) Conclusions & Closing 12:50 - 13:10

Lunch (13:10 - 15:00)