PROGRAM

Monday, August 8, 2022

Arrival

17:00 – 18:00 Registration

Tuesday, August 9, 2022

| 8.30 - 9.00 9.00 - 9.15 | Registration Opening | | | |
|---|--|--|--|--|
| 9.15 – 12.10 | Section I Chair: S. Brazovskii | | | |
| 9.15 – 9.35 | P. Monceau, Institut Néel, CNRS, France | | | |
| 9.35 – 10.45 | P. Littlewood, University of Chicago, USA Electronic and structural order in oxides | | | |
| 10.45 – 11.15 | Coffee | | | |
| 11.15 – 11.45 | H. Itoh, Tohoku University, Sendai, Japan Short- and long-range charge correlations and their ultrafast photoinduced dynamics in organic electronic ferroelectrics | | | |
| 11.45 – 12.10 | A. Edelman, University of Chicago, USA Superconductivity in strontium titanate | | | |
| 12.30 – 14.30 | Lunch | | | |
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| 14.30 – 16.10 | Section II | | | |
| 14.30 – 16.10 | Section II Chair: T. Mertelj | | | |
| 14.30 – 16.10 14.30 – 15.10 | | | | |
| | Chair: T. Mertelj S. Iwai, Tohoku University, Sendai, Japan Ultrafast breaking of spatial/time reversal symmetry in strongly correlated | | | |
| 14.30 – 15.10 | Chair: T. Mertelj S. Iwai, Tohoku University, Sendai, Japan Ultrafast breaking of spatial/time reversal symmetry in strongly correlated systems U. Bovensiepen, University of Duisburg-Essen, Germany Dynamics of propagating and localized electronic excitations analyzed by | | | |
| 14.30 – 15.10 15.10 – 15.40 | S. Iwai, Tohoku University, Sendai, Japan Ultrafast breaking of spatial/time reversal symmetry in strongly correlated systems U. Bovensiepen, University of Duisburg-Essen, Germany Dynamics of propagating and localized electronic excitations analyzed by femtosecond photoelectron spectroscopy L. Degiorgi, ETH Zurich, Switzerland Optical signature of anomalous Hall effect in a correlated magnetic Weyl | | | |
| 14.30 – 15.10 15.10 – 15.40 15.40 – 16.10 | Chair: T. Mertelj S. Iwai, Tohoku University, Sendai, Japan Ultrafast breaking of spatial/time reversal symmetry in strongly correlated systems U. Bovensiepen, University of Duisburg-Essen, Germany Dynamics of propagating and localized electronic excitations analyzed by femtosecond photoelectron spectroscopy L. Degiorgi, ETH Zurich, Switzerland Optical signature of anomalous Hall effect in a correlated magnetic Weyl semimetal | | | |

Wednesday, August 10, 2022

| 9.00 – 11.55 | Section III Chair: S. Iwai |
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| 9.00 – 10.10 | D. Mihailovic, Jozef Stefan Institute, Ljubljana, Slovenia Electronic topological defect dynamics in metastable states - from forced to quantum |
| 10.10 – 10.40 | Coffee |
| 10.40 – 11.05 | I. Vaskivskiy, Jozef Stefan Institute, Ljubljana, Slovenia Real-time tracking of the Wigner crystal through a photoinduced phase transition |
| 11.05 – 11.30 | Y. Gerasimenko, Jozef Stefan Institute, Ljubljana, Slovenia Ultrafast jamming transition in a charge-ordered system |
| 11.30 – 11.55 | P. Karpov, Max Planck Institute of Physics of Complex Systems, Dresden, Germany Modeling of patterns in electronic crystals |
| 12.30 – 14.30 | Lunch |
| | |
| 1/1 30 17 35 | Section IV |
| 14.30 – 17.35 | Section IV Chair: L. Degiorgi |
| 14.30 – 17.35 14.30 – 15.10 | |
| | Y. Iwasa, The University of Tokyo, Japan Chair: L. Degiorgi |
| 14.30 – 15.10 | Chair: L. Degiorgi Y. Iwasa, The University of Tokyo, Japan Density driven BCS-BEC crossover in 2D superconductors A. Gabovich, Institute of Physics, National Academy of Sciences of Ukraine, Ukraine Image forces and interaction between electric charges or dipoles in three- |
| 14.30 – 15.10 15.10 – 15.40 | Y. Iwasa, The University of Tokyo, Japan Density driven BCS-BEC crossover in 2D superconductors A. Gabovich, Institute of Physics, National Academy of Sciences of Ukraine, Ukraine Image forces and interaction between electric charges or dipoles in three-layer structures P. Hofmann, Aarhus University, Denmark |
| 14.30 – 15.10 15.10 – 15.40 15.40 – 16.10 | Chair: L. Degiorgi Y. Iwasa, The University of Tokyo, Japan Density driven BCS-BEC crossover in 2D superconductors A. Gabovich, Institute of Physics, National Academy of Sciences of Ukraine, Ukraine Image forces and interaction between electric charges or dipoles in three-layer structures P. Hofmann, Aarhus University, Denmark In-operando electronic structure of quantum material devices |

Thursday, August 11, 2022

| 9.00 – 12.10 | Section V Chair: P. Littlewood | | | |
|---------------|--|--|--|--|
| 9.00 - 9:40 | T. Mehlstaubler, Leibniz Universität Hannover Non-equilirium dynamics and nanofriction in ion Coulomb crystals. | | | |
| 9:40 – 10:10 | J. Hallen, University Cambridge, UK Anomalous diffusion of magnetic monopoles in spin ice | | | |
| 10.10 - 10.40 | Coffee | | | |
| 10.40 – 11.20 | S. Tanda, Hokkaido University, Sapporo, Japan. Quantum density waves | | | |
| 11.20 – 11.45 | K. Nakatsugawa, Hokkaido University, Sapporo, Japan. Time crystals and time operators from charge density waves | | | |
| 11.45 – 12.10 | N. Kirova, LPS, University Paris-Saclay, France Half-integer complexes of vortices and dislocations in spin density waves | | | |
| 12.30 – 14.30 | Lunch | | | |
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| 14.30 – 17.40 | Section VI | | | |
| 1420 1500 | Chair: U. Bovensiepen | | | |
| 14.30 – 15:00 | A. Rosso, LPTMS, CNRS & University Paris-Saclay, France Bath-induced localization in 1D XXZ chain | | | |
| 15:00 – 15.25 | H. Nobukane, Hokkaido University, Sapporo, Japan High- T_c superconductivity in 2D ruthenates: relation to charge and spin density wave | | | |
| 15.25 – 15.55 | S. Mukhin, NUST MISIS, Moscow, Russia Euclidean Q-balls of fluctuating SDW/CDW density waves as the pairing 'glue' in the pseudogap and superconducting phases of high-Tc cuprates | | | |
| 15.55 – 16.20 | Coffee | | | |
| 16.20 – 16.45 | M. Kartsovnik, Walther-Meissner-Institute, Garching, Germany Metallic ground state near the Mott transition in organic conductors probed by magnetic quantum oscillations | | | |
| 16.45 – 17.10 | Y. Soh, Paul Scherrer Institute, Villigen, Switzerland Coupling between the magnetic and charge degrees of freedom in a Weyl ferromagnet | | | |
| 17.10 – 17.40 | M. Rozenberg, LPS, CNRS & University Paris-Saclay, France Solid state neuroscience | | | |
| 18.30 | Public lecture (in French) G. Aeppli, ETH Zurich, Switzerland Mapping artificial and natural intelligence | | | |

Friday, August 12, 2022

| 9.00 – 12.05 | Section VII Chair: Sh. Sanders | | |
|--|---|--|--|
| 9.00 - 10.10 | J. Tranquada, Brookhaven National Laboratory, Upton, USA Making sense of stripes, pseudogaps, and superconductivity in cuprates | | |
| 10.10 – 10.40 | Coffee | | |
| 10.40 – 11.10 | M. Senn, University of Warwick, United Kingdom Striping of orbital-order with charge-disorder in optimally doped manganites | | |
| 11.10 – 11.40 | GY. Cho, Institute for Basic Science (IBS), Republic of Korea Superconductivity and non-Fermi liquids in domain wall networks of 2D charge density wave systems | | |
| 11.40 – 12.05 | M. Leroux, LNCMI, Toulouse, France CDW and superconductivity: T_c "domes" by proton irradiation induced disorder | | |
| | | | |
| 12.30 – 14.30 | Lunch | | |
| 12.30 – 14.30 14.30 – 16.00 | Section VIII | | |
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| 14.30 – 16.00 | Section VIII Chair: T. Mehlstaubler T. Mertelj, Jozef Stefan Institute, Ljubljana, Slovenia Phase transition bottleneck during ultrafast insulator-metal transition in | | |
| 14.30 – 16.00 14.30 – 15.00 | Section VIII Chair: T. Mehlstaubler T. Mertelj, Jozef Stefan Institute, Ljubljana, Slovenia Phase transition bottleneck during ultrafast insulator-metal transition in 3D orbitally-driven Peierls insulator CuIr ₂ S ₄ A. Luican-Mayer, University of Ottawa, Canada | | |
| 14.30 – 16.00 14.30 – 15.00 15.00 – 15.30 | Section VIII Chair: T. Mehlstaubler T. Mertelj, Jozef Stefan Institute, Ljubljana, Slovenia Phase transition bottleneck during ultrafast insulator-metal transition in 3D orbitally-driven Peierls insulator CuIr ₂ S ₄ A. Luican-Mayer, University of Ottawa, Canada Quantum 2D materials and devices at the atomic scale V. Dobrosaljevic, Florida State University, Tallahassee, USA | | |
| 14.30 - 16.00 14.30 - 15.00 15.00 - 15.30 15.30 - 16.00 | Chair: T. Mehlstaubler T. Mertelj, Jozef Stefan Institute, Ljubljana, Slovenia Phase transition bottleneck during ultrafast insulator-metal transition in 3D orbitally-driven Peierls insulator CuIr ₂ S ₄ A. Luican-Mayer, University of Ottawa, Canada Quantum 2D materials and devices at the atomic scale V. Dobrosaljevic, Florida State University, Tallahassee, USA Moiré-Wigner-Mott freezing in TMD heterobilayers | | |

Saturday, August 13, 2022

| 9.00 - 12.15 | Section IX |
|---------------|--|
| | Chair: D. Popovic |
| 9.00 - 10.10 | D. Le Bolloc'h, LPS, CNRS & University Paris-Saclay, France |
| | Sliding charge density waves from coherent and time resolved diffraction |
| 10.10.10.10 | |
| 10.10 – 10.40 | Coffee |
| | |
| 10.40 11.10 | A. C'. J. J. W. da 12 "lana Institute Manages Descrip |
| 10.40 - 11.10 | A. Sinchenko, Kotel'nikov Institute, Moscow, Russia |
| | CDW collective motion in 2D systems |
| 11.10 - 11.35 | V. Jacques, LPS, CNRS & University Paris-Saclay, France |
| 11110 11100 | Spin and charge density wave coupling in chromium studied through the |
| | spin-flip transition: statics and ultrafast dynamics |
| | |
| 11.35 - 12.00 | P. Monceau, Institut Néel, CNRS, France |
| | The search for density wave sliding in chromium |
| | |
| 12.00 - 12.15 | Closing 1st week |
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| 12.30 – 14.30 | Lunch |
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Sunday, August 14, 2022

Free time

Social activity

Monday, August 15, 2022

| 8.30 – 9.00 | Registration | | | |
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| 9.00 – 12.10 | Section X Chair: V. Dobrosaljevic | | | |
| 9.00 – 10.10 | T. Giamarchi, University of Geneva, Switzerland Wigner crystals | | | |
| 10.10 – 10.40 | Coffee | | | |
| | | | | |
| 10.40 – 11.10 | J. Van Wezel, University of Amsterdam, The Netherlands Multipole charge density waves causing orbital order | | | |
| 11.10 – 11.40 | P. Werner, University of Fribourg, Switzerland Nonthermal electronic orders in photo-doped Mott systems | | | |
| 11.40 – 12.10 | S. Brazovskii, LPS, University Paris-Saclay, France Revision of the TDGL approach to evolution of inhomogeneous states of charge density waves | | | |
| | | | | |
| 12.30 – 14.30 | Lunch | | | |
| 12.30 – 14.30 | Lunch | | | |
| 12.30 – 14.30 14.30 – 15.55 | Lunch Section XI | | | |
| 14.30 – 15.55 | Section XI Chair: E. Blackburn | | | |
| | Section XI Chair: E. Blackburn C. Monney, University of Fribourg, Switzerland Transient enhancement of the ferroelectricity in the Rashba | | | |
| 14.30 – 15.55 | Section XI Chair: E. Blackburn C. Monney, University of Fribourg, Switzerland | | | |
| 14.30 – 15.55 14.30 – 15.00 | Section XI Chair: E. Blackburn C. Monney, University of Fribourg, Switzerland Transient enhancement of the ferroelectricity in the Rashba semiconductor α-GeTe R. Ramazashvili, LPT, CNRS & University of Toulouse, France | | | |
| 14.30 – 15.55 14.30 – 15.00 15.00 – 15.25 | Section XI Chair: E. Blackburn C. Monney, University of Fribourg, Switzerland Transient enhancement of the ferroelectricity in the Rashba semiconductor α-GeTe R. Ramazashvili, LPT, CNRS & University of Toulouse, France Skyrmion-electron bound states in a Néel antiferromagnet M. Rontani, CNR-Nano, Italy | | | |
| 14.30 - 15.55 14.30 - 15.00 15.00 - 15.25 15.25 - 15.55 | Section XI Chair: E. Blackburn C. Monney, University of Fribourg, Switzerland Transient enhancement of the ferroelectricity in the Rashba semiconductor α-GeTe R. Ramazashvili, LPT, CNRS & University of Toulouse, France Skyrmion-electron bound states in a Néel antiferromagnet M. Rontani, CNR-Nano, Italy Pressurized MoS ₂ and monolayer WTe ₂ as ideal excitonic insulators | | | |

Tuesday, August 16, 2022

| 9.00 – 12.10 | Section XII Chair: A. Luican-Mayer | | | |
|--------------------------------------|--|--|--|--|
| 9.00 – 10.10 | C. Proust, LNCMI, Toulouse, France The remarkable underlying ground states of cuprates | | | |
| 10.10 – 10.40 | Coffee | | | |
| 10.40 – 11.10 | E. Blackburn, Lund University, Sweden The normal state response of YBCO | | | |
| 11.10 – 11.40 | D. Popovic, Florida State University, Tallahassee, USA Signatures of a pair density wave at high magnetic fields in stripe-ordered cuprates | | | |
| 11.40 – 12.10 | V. Balédent, LPS, CNRS & University Paris-Saclay, France Pressure phase diagram of unidimensional iron based superconductors BaFe ₂ Se ₃ | | | |
| 12.30 – 14.30 | Lunch | | | |
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| 14.30 –15.55 | Section XIII Chair: Ph. Hofmann | | | |
| 14.30 –15.55 14.30 – 15.00 | | | | |
| | Chair: Ph. Hofmann V. Pokrovskii, Kotel'nikov Institute, Moscow, Russia | | | |
| 14.30 – 15.00 | Chair: Ph. Hofmann V. Pokrovskii, Kotel'nikov Institute, Moscow, Russia Features of CDWs in NbS ₃ -II revealed by Shapiro steps I. Gorlova, Kotel'nikov Institute, Moscow, Russia Photoconductivity as a probe of semiconducting and collective states in | | | |
| 14.30 – 15.00 15.00 – 15.25 | Chair: Ph. Hofmann V. Pokrovskii, Kotel'nikov Institute, Moscow, Russia Features of CDWs in NbS ₃ -II revealed by Shapiro steps I. Gorlova, Kotel'nikov Institute, Moscow, Russia Photoconductivity as a probe of semiconducting and collective states in the layered quasi one-dimensional compound TiS ₃ S. Zaitsev-Zotov, Kotel'nikov Institute, Moscow, Russia Low-temperature magnetoresistance in o-TaS ₃ and (TaSe ₄) ₂ I in nonlinear | | | |

Wednesday, August 17, 2022

| 9.00 – 12.10 | Section XIV Chair: L. Perfetti | | | |
|---------------|--|--|--|--|
| 9.00 – 10.10 | K. Kanoda, University of Tokyo, Japan Topological excitations in neutral—ionic transition systems | | | |
| 10.10 – 10.40 | Coffee | | | |
| 10.40 – 11.10 | A. Buzdin, LOMA, CNRS & University of Bordeaux, France Towards the light-operated superconducting devices: circularly polarized radiation manipulates the current-carrying states in superconducting rings | | | |
| 11.10 – 11.40 | E. Demler, ETH Zurich, Switzerland Optical responses of photoexcited materials: from parametric amplification to photoinduced superconductivity | | | |
| 11.40 – 12.05 | L. Radzihovsky, University of Colorado, Boulder, USA Quantum smectic fracton order | | | |
| 12.30 – 14.30 | Lunch | | | |
| 14.30 – 15.30 | Section XV Chair: S. Fratini | | | |
| 14.30 – 15.00 | S. Lin, Los Alamos National Laboratory, USA Correlated Chern insulator in two-dimensional materials | | | |
| 15.00 – 15.30 | V. Yakovenko, University of Maryland, USA Optical control of topological memory based on orbital magnetization | | | |
| 15.30 – 16.00 | Coffee | | | |
| 16.30 | Bus excursion to Piana clifs | | | |

Thursday, August 18, 2022

| 9.00 – 12.10 | Section XVI Chair E. Blachburn | | | |
|--|---|--|--|--|
| 9.00 – 10.10 | K. Rossnagel, Kiel University, Germany Ultrafast unordering of electronic order | | | |
| 10.10 – 10.40 | Coffee | | | |
| 10.40 – 11.10 | L. Perfetti, LSI, Ecole Polytechnique, France Ultrafast dimerization melting in the Peierls-Mott insulator 1T-TaS ₂ | | | |
| 11.10 – 11.40 | K. Yonemitsu, Chuo University, Tokyo, Japan Oscillating charge order and spin polarization in photoexcited Mott insulators | | | |
| 11.40 – 12.10 | R. Bertoni, University of Rennes, France Exploring the phase diagram of molecular conductors during photo- induced non-equilibrium dynamics | | | |
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| 12.30 – 14.30 | Lunch | | | |
| 12.30 – 14.30 14.30 – 15.55 | Lunch Section XVII Chair: R. Bertoni | | | |
| | Section XVII | | | |
| 14.30 – 15.55 | Section XVII Chair: R. Bertoni SK. Mo, Lawrence Berkeley National Laboratory, USA | | | |
| 14.30 – 15.55 14.30 – 15.00 | Section XVII Chair: R. Bertoni SK. Mo, Lawrence Berkeley National Laboratory, USA Charge density waves in atomically thin transition metal dichalcogenides C. Renner, University of Geneva, Switerland Insight into the CDW electronic structure from high-resolution | | | |
| 14.30 – 15.55 14.30 – 15.00 15:00 – 15.30 | Section XVII Chair: R. Bertoni SK. Mo, Lawrence Berkeley National Laboratory, USA Charge density waves in atomically thin transition metal dichalcogenides C. Renner, University of Geneva, Switerland Insight into the CDW electronic structure from high-resolution topographic scanning tunneling microscopy A. Bosak, European Synchrotron Radiation Facility, France | | | |
| 14.30 - 15.55 14.30 - 15.00 15:00 - 15.30 15.30 - 15.55 | Section XVII Chair: R. Bertoni SK. Mo, Lawrence Berkeley National Laboratory, USA Charge density waves in atomically thin transition metal dichalcogenides C. Renner, University of Geneva, Switerland Insight into the CDW electronic structure from high-resolution topographic scanning tunneling microscopy A. Bosak, European Synchrotron Radiation Facility, France Electron-phonon interaction as seen in diffuse and inelastic scattering | | | |

Friday, August 19, 2022

| 9.00 – 12.15 | Section XVIII Chair: V. Yakovenko |
|----------------|--|
| 9.00 – 10.10 | K. Behnia, LPEM, CNRS & Sorbonne University, France Thermal transport and quasi-particle hydrodynamics |
| 10.10 – 10.40 | Coffee |
| 10.40 – 11.10 | S. Fratini, Institut Néel, CNRS, France Bad metal behavior from slow collective excitations |
| 11.10 – 11.35 | A. Pustogow, TU Wien, Austria Thirty-year anniversary of κ-(BEDT-TTF) ₂ Cu ₂ (CN) ₃ : reconciling the spin gap in a spin-liquid candidate |
| 11.35 – 12. 00 | Y. Zhao, Deutsches Elektronen-Synchrotron, Hamburg, Germany Mechanism of divergence resistance in Rb ₂ Mo ₆ Se ₆ with pressure |
| 12.00 – 12:15 | Closing |
| 12.30 – 14.00 | Lunch |

Saturday, August 20, 2022

Departure

POSTER SESSIONS

Poster session I Tuesday, August 9

| Poster number | Name | Title |
|----------------|-----------------|---|
| 1 oster number | Tune | |
| PI-1 | Y. Chernolevska | Superconductivity in epitaxial mbe-grown 1T- TaS_2 thin films |
| PI-2 | V. Zimmermann | Inelastic photon scattering from spin-orbit excitons in a strongly correlated 4d-metal |
| PI-3 | D. Dominko | Thin films of blue bronze with micron size grains |
| PI-4 | D. Ghoneim | Sliding charge density wave systems under applied current probed by X-ray free electron laser |
| PI-5 | G. Jecl | Transient and persistent responses of stripe order in IrTe ₂ to ultrafast optical pulses |
| PI-6 | V. Kisicek | Linear magnetoelectric effect in multidomain antiferromagnet Cu ₃ TeO ₆ |
| P-7 | T.Lacmann | Pressure-temperature phase diagram of BaNi ₂ As ₂ |
| PI-8 | R. Mathew Roy | Charge dynamics of heavy fermions near its quantum critical point |
| PI-9 | A. Minelli | Charge density wave in KCP: a new look to an old compound |
| PI-10 | K. Nakatsugawa | Origin of stripe CDW structures in monolayer MX ₂ : multivalley free energy landscape and conformality |

| PI-11 | P. Rodière | Charge density wave and superconductivity: the case of Lu ₅ Ir ₄ Si ₁₀ |
|--------|--------------|--|
| PI-12 | M. Senn | Intrinsic phase-coexistence and its effect on octahedral tilt magnitude in hole-doped lanthanum cuprates |
| PI-13 | F. Spathelf | From magnetic order to valence-change crossover in EuPd ₂ (Si _{1-x} Ge _x) ₂ using helium gas pressure |
| PI-14 | R. Venturini | Ultra-efficient resistance switching between charge ordered phases in 1T-TaS ₂ with a single picosecond electrical pulse |
| PII-15 | A. Sinchenko | Collective motion of a charge density wave driven by Hall electric field |
| PII-16 | A. Sinchenko | Current-time evolution of pinning of a charge density wave in a quasi-two-dimensional TbTe ₃ compound |

Poster session II Monday, August 15

| Poster number | Name | Title |
|---------------|------------------|--|
| PII-1 | E. Blackburn | Forbidden Bragg reflections in multi-k magnetic structures |
| PII-2 | J. Henke | Dimensionally dependent 'beyond nesting' charge order in VSe ₂ |
| PII-3 | K. Kazarian | Probing charge and spin density wave dynamics in chromium due to a magnetic field pulse |
| PII-4 | G. Mirarchi | Dissipation-driven strange metal behavior |
| PII-5 | V. Pokrovskii | CDWs under static and dynamic deformation of the crystals |
| PII-6 | I. Pushkarna | Large area exfoliation of monolayer transition metal dichalcogenides for scanning probe microscopy |
| PII-7 | Y. Vaskivskyi | Charge dynamics in the amorphous state of 1T-TaS ₂ |
| PII-8 | G. Venditti | The CDW – SC competition as a source of filamentary superconductivity: a monte carlo study |
| PII-9 | I. Zimmermann | Imaging of phase coexistence in Weyl semimetal Co ₃ Sn ₂ S ₂ |
| PII-10 | S. Zaitsev-Zotov | Pinning of the charge density waves by correlated impurities in <i>o</i> -TaS ₃ |

| PII-11 | S. Zaitsev-Zotov | Transition to one-dimensional pinning of charge density waves at low temperatures in bulk crystals of o-TaS ₃ |
|--------|------------------|--|
| PII-12 | S. Zaitsev-Zotov | Strain-induced metal-dielectric transition in quasi-one-dimensional metal TaSe ₃ |
| PII-13 | N. Davier | Skyrmion-electron bound states in a Neel antiferromagnet |
| PII-14 | A. Sinchenko | Magnetic quantum oscillations in Hall effect |
| PII-15 | A. Sinchenko | Time relaxation of a non-equilibrium charge density wave in quasi-two-dimensional compounds |