

Program

Niedziela, 6 października 2019 r. / Sunday, October 6, 2019

17:00 – 18:30 Rejestracja / Registration

19:00 – 20:00 *Kolacja / Dinner*

20:00 – 20:30 Wykład specjalny / Special lecture
P. Szymczak (Instytut Fizyki Teoretycznej, Uniwersytet Warszawski)

Poniedziałek, 7 października 2019 r. / Monday, October 7, 2019

7:15 – 8:45 *Śniadanie / Breakfast*

9:00 – 10:30 Sesja I / Session I

9:00 – 9:35 **ZD1** A. Kaminski “Collective excitations in unconventional superconductors”

9:35 – 10:10 **ZD2** W. Tabiś “Charge order and the Fermi surface in cuprates”

10:10 – 10:30 **U1** I. Biało “Uniaxial pressure studies of charge correlations in cuprates”

10:30 – 11:00 *Przerwa kawowa / Coffee break*

11:00 – 12:50 Sesja II / Session II

11:00 – 11:35 **ZD3** J. Spałek “Universal properties of superconductors: Beyond the renormalized mean field theory”

11:35 – 12:10 **ZD4** M. Zegrodnik “Superconductivity and charge ordering in the effective models of copper-based compounds”

12:10 – 12:30 **U2** M. Fidrysiak “Spin and charge fluctuations within variational approach: Dynamical response functions for Hubbard and t-J-U models”

12:30 – 12:50 **U3** W. M. Woch “Critical Exponents of $Tl_{0.8}Bi_{0.3}Sr_{1.8}Ba_{0.2}Ca_2Cu_3O_x$ bulk superconductor”

13:00 – 15:00 *Obiad / Lunch*

15:00 – 16:40 Sesja III / Session III

15:00 – 15:35 **ZD5** M. Konczykowski “Charge and Magnetic Orders in Superconductors, Competing or Intertwined?”

15:35 – 16:00 **ZK1** K. Rogacki “BKT transition observed in magnetic and electric properties of $YBa_2Cu_3O_{7-\delta}$ single crystals”

16:00 – 16:20 **U4** P. Przysławski “Emission of terahertz transients from $La_{0.7}Sr_{0.3}MnO_3$ / $YBa_2Cu_3O_{7-x}$ nanobilayers by femtosecond laser pulses”

16:20 – 16:40 **U5** A. Lynnyk “Upper critical field in superconducting iron selenides intercalated with organic molecules”

16:40 – 17:10 *Przerwa kawowa / Coffee break*

17:10 – 18:45 Sesja IV / Session IV

17:10 – 17:45 **ZD6** D. Rybicki “Electronic and structural properties of $\text{HgBa}_2\text{CuO}_{4+\delta}$ single crystals concluded from NMR”

17:45 – 18:05 **U6** B. Camargo “Anomalous Hall effect in Bismuth”

18:05 – 18:25 **U7** R. J. Radwański “Crystal-field states in cuprates vs d-d excitations observed by RIXS: La_2CuO_4 ”

18:25 – 18:45 **U8** I. Zaytseva “Transport properties of compressed $\text{La}_{1.952}\text{Sr}_{0.048}\text{CuO}_4$ thin films”

19:00 – 20:00 *Kolacja / Dinner*

20:00 – 21:00 Sesja plakatowa / Poster session

Wtorek, 8 października 2019 r. / Tuesday, October 8, 2019

7:15 – 8:45 *Śniadanie / Breakfast*

9:00 – 10:30 Sesja V / Session V

9:00 – 9:35 **ZD7** R. Szcześniak “Superconducting state in the hydrogen-rich compounds”

9:35 – 10:10 **ZD8** T. Klimczuk “Searching for new superconducting materials”

10:10 – 10:30 **U9** S. Gutowska “Electron-phonon driven superconductivity of LiBi”

10:30 – 11:00 *Przerwa kawowa / Coffee break*

11:00 – 12:50 Sesja VI / Session VI

11:00 – 11:35 **ZD9** P. Starowicz “Hybridization Effects in CeCoIn₅ studied by ARPES, DFT and TBA calculations”

11:35 – 12:10 **ZD10** M. Matusiak “Thermoelectric signature of the nematic phase in iron-based superconductors”

12:10 – 12:30 **U10** R. Kurlito “The Interplay between Two Kondo Scales in the Ce₃PdIn₁₁ Heavy Fermion System Studied by Angle Resolved Photoelectron Spectroscopy”

12:30 – 12:50 **U11** M. J. Winiarski “Chemical view of bonding and superconductivity in LiBi and other intermetallic compounds: the importance of antibonding states”

13:00 – 15:00 *Obiad / Lunch*

15:00 – 16:40 Sesja VII / Session VII

15:00 – 15:35 **ZD11** P. Piekarz “DFT studies of noncentrosymmetric superconductors”

15:35 – 16:00 **ZK2** A. Cichy “Low-temperature phases in the two-band Hubbard model realized with ultracold atomic four-component mixtures in optical lattices”

16:00 – 16:20 **U12** B. Wiendlocha “Effect of the spin-orbit coupling on the electron-phonon interaction in superconductors: several case studies”

16:20 – 16:40 **U13** T. L. Mai “Magnetic state and electronic properties of Sr₄V₂O₆Fe₂As₂ studied by DFT calculations”

16:40 – 17:10 *Przerwa kawowa / Coffee break*

17:10 – 18:45 Sesja VIII / Session VIII

17:10 – 17:45 **ZD12** Z. Bukowski “Magnetic structures and superconductivity in iron-based superconductors containing europium”

17:45 – 18:05 **U14** K. Górnicka “Superconductivity in Li-based Heusler compounds”

18:05 – 18:25 **U15** V. H. Tran “Magnetic, electron transport, specific heat and Mössbauer spectroscopy properties of $\text{Sr}_2\text{AFeAsO}_3$ (A = V, Cr and Sc) materials”

18:25 – 18:45 **U16** K. Komędera “Interplay of magnetism, nematicity and superconductivity in ‘122’ iron-pnictides studied by Mössbauer spectroscopy”

19:00 – 20:00 *Kolacja / Dinner*

20:00 – 21:00 Sesja plakatowa / Poster session

Środa, 9 października 2019 r. / Wednesday, October 9, 2019

7:15 – 8:45 *Śniadanie / Breakfast*

9:00 – 10:30 Sesja IX / Session IX

9:00 – 9:35 **ZD13** D. Kaczorowski “Metamagnetic quantum criticality in antiferromagnetic compound CePtIn₄”

9:35 – 10:10 **ZD14** A. Ślebarski “Novel superconducting state of Y₅Rh₆Sn₁₈; The impact of atomic scale disorder on superconductivity”

10:10 – 10:30 **U17** Z. Sobczak “Single crystal growth and physical properties of MCo₂Al₉ (M= Sr, Ba, Eu)”

10:30 – 11:00 *Przerwa kawowa / Coffee break*

11:00 – 12:40 Sesja X / Session X

11:00 – 11:35 **ZD15** J. Jaroszyński “Practical superconducting wires”

11:35 – 12:00 **ZK3** B. A. Głowacki “Interrelation between dynamic and static transport critical current values of superconductors”

12:00 – 12:20 **U18** J. Kozak “Resistive Superconducting Fault Current Limiter”

12:20 – 12:40 **U19** Ł. Tomków “Distribution of trapped magnetic flux in superconducting stacks magnetised by angled field”

13:00 – 15:00 *Obiad / Lunch*

15:00 – 18:30 *Wycieczka / Excursion*

19:00 – 20:00 *Kolacja grillowa / Barbecue dinner*

Czwartek, 10 października 2019 r. / Thursday, October 10, 2019

7:15 – 8:45 *Śniadanie / Breakfast*

9:00 – 10:30 Sesja XI / Session XI

9:00 – 9:35 **ZD16** T. Domański “Conventional and topological realizations of subgap quasi-particles in nanoscopic superconductors”

9:35 – 10:10 **ZD17** T. Hyart “Correlated states in flat-band systems and topological properties of surface steps in the SnTe material class”

10:10 – 10:30 **U20** S. Głodzik “Nodal topological superconductivity in magnetic superstructures”

10:30 – 11:00 *Przerwa kawowa / Coffee break*

11:00 – 12:50 Sesja XII / Session XII

11:00 – 11:35 **ZD18** G. Jung “Meyer-Neldel rule in low Ca-doped manganites”

11:35 – 12:10 **ZD19** A. Szewczyk “Peculiar magnetic susceptibility and phase transitions in LiNiPO₄”

12:10 – 12:30 **U21** P. Tomczak “Universal FMR procedure to probe magnetic characteristics of ferromagnetic samples”

12:30 – 12:50 **U22** T. Zajarniuk “Magnetic phase transition in TbAl₃(BO₃)₄ - classical or modified by quantum fluctuations?”

13:00 – 15:00 *Obiad / Lunch*

15:00 – 16:40 Sesja XIII / Session XIII

15:00 – 15:35 **ZD20** M. M. Maška “Proximity-induced topological superconductivity in a chain of magnetic atoms”

15:35 – 16:00 **ZK4** B. Scharf “Topological superconductivity in phase-controlled Josephson junctions on Rashba 2DEGs”

16:00 – 16:20 **U23** B. Dąbrowski “Single Mn-ion displacive-type perovskite multiferroics”

16:20 – 16:40 **U24** M. Roman “Charge density waves and magnetism in RniC₂ family (R - rare earth metal)”

16:40 – 17:10 *Przerwa kawowa / Coffee break*

17:10 – 18:35 Sesja XIV / Session XIV

17:10 – 17:35 **ZK5** A. Ptok “Artificial separation of trivial and topological superconducting domains”

17:35 – 17:55 **U25** B. Baran “Periodically driven quantum dot systems proximitized to superconducting lead”

17:55 – 18:15 **U26** G. Górski “Spin-dependent transport through Quantum Dot-Majorana Wire System”

18:15 – 18:35 **U27** K. Pomorski “Description of interface between semiconductor and superconducting quantum computer”

19:00 – 20:00 *Bankiet / Conference dinner*

Piątek, 11 października 2019 r. / Friday, October 11, 2019

7:15 – 8:45 *Śniadanie / Breakfast*

9:00 – 10:30 Sesja XV / Session XV

9:00 – 9:25 **ZK6** N. Sedlmayr “The Superconductivity of Topologically Protected Surface States”

9:25 – 9:50 **ZK7** A. Wójs “Search for Jack states in fractional quantum Hall systems”

9:50 – 10:10 **U28** A. Więckowski “Majorana phase gate based on geometric phase”

10:10 – 10:30 **U29** A. Kobiałka “Majorana Bound State leakage in nanoscopic structures”

10:30 – 11:00 *Przerwa kawowa / Coffee break*

11:00 – 12:00 Sesja XVI / Session XVI

11:00 – 11:25 **ZK8** G. Michałek “Current auto and cross correlations in three terminal hybrid nanostructures with quantum dot”

11:25 – 11:50 **ZK9** T. Polak “Finite-temperature properties of the Mott phase in the Bose-Bose mixtures”

11:50 – 12:00 *Zamknięcie konferencji / Closing of the conference*

13:00 – 15:00 *Obiad / Lunch*