

List of Unpublished Lectures

List of Lectures read but not included in the present Proceedings

1. **A Decade of HTS Materials and Beyond**, by C.W. Chu
(Texas Center for Superconductivity and Dept. of Physics, Univ. of Houston, TX, USA)
2. **Structural Response to an Electronic Singularity at the Maximum T_c** , by J. Jorgensen (Materials Sci. Div., Argonne Natl. Lab., Argonne, IL, USA)
3. **HTS Materials for Levitator and Magnet Applications – A Study of Single Crystals and Textured Superconductors**, by B.W. Veal (Mater. Sci. Div., Argonne Natl. Lab., IL, USA)
4. **Far-Infrared Ellipsometry of the Out-of-Plane Response in Cuprate Superconductors**, by A. Wittlin (Max-Planck-Inst. für Festkörperforschung, Stuttgart, Germany)
5. **Anisotropy and Geometry Effects in the High- T_c Superconductors**, by John R. Clem (Ames Laboratory and Dept. of Phys. & Astron., Iowa State Univ., Ames, IA, USA)
6. **Luttinger-Liquid Phenomenology of High- T_c Superconductivity**, by K. Byczuk, J. Spalek, and W. Wójcik (Inst. of Physics, Jagellonian University, Cracow, Poland)
7. **Grain Boundary Properties of HTS**, by D. Larbalestier (Dept. of Mater. Sci. & Engng, and Dept. of Phys., Appl. Superconductivity Cent., Univ. of Wisconsin, Madison, WI, USA)
8. **Superconductivity in Intercalated Graphite and Fullerene**, by J. Stankowski, W. Kempański, and L. Piekara-Sady (Institute of Molecular Physics, Polish Ac. Sci., Poznań, Poland)
9. **Magnetic Instabilities in High-Temperature Superconductors**, by Z. Tarnawski (Fac. of Phys. and Nucl. Techn., Acad. of Mining & Metallurgy, Cracow, Poland), A. Gerber (Fac. of Exact Sci., Univ. of Tel Aviv, Israel), and J.J.M. Franse (Van der Waals-Zeeman Lab., Univ. v. Amsterdam, The Netherlands)

List of Posters

Posters presented at the Conference

- 1. Pulsed Laser Deposited Amorphous and Crystalline YBaCuO Thin Films: Structural, Optical and Transport Properties**, by A. Abal'oshev, E. Dynowska, P. Gierłowski, A. Klimov, S.J. Lewandowski (*Inst. of Physics, Polish Ac. Sci., Warsaw, Poland*), D. Okunev, Z.A. Samoilenko, and V.M. Svistunov (*Inst. for Physics and Engineering, Natl. Ac. Sci., Donetsk, Ukraine*)
- 2. Superconducting Properties of Superconductor–Insulator Composites**, by B. Andrzejewski, J. Stankowski, A. Kaczmarek, B. Hilczer (*Inst. of Molec. Phys., Polish Ac. Sci., Poznań, Poland*), and J. Marfaing (*Facult. des Scis. et Techniques, Lab. Matér., Organism. et Propért., CNRS, Marseille, France*)
- 3. Superconductivity in the Pair–Tunneling Model Close to the Metal–Insulator Transition**, by J. Biesiada and J. Zieliński (*Inst. of Physics, Univ. of Silesia, Katowice, Poland*)
- 4. Influence of Al₂O₃ or BaZrO₃ Substrates on Transport Properties of Bi2223 Superconductors**, by H. Bougrine, M. Ausloos, B. Robertz, R. Cloots (*Phys. Inst. and Chem. Inst., Univ. de Liège, Belgium*), and J. Mucha (*Inst. of Low Temperature and Structure Research, Wrocław, Poland*)
- 5. Thermodynamics of the BCS Model at Broken Particle–Hole Symmetry**, by J. Czerwonko (*Inst. of Physics, Univ. of Technology, Wrocław, Poland*)
- 6. An EPR Measurements of the Spatial Distribution of Magnetic Field Near the Nb Superconducting Samples. The Object's Shape Effect**, by H. Drulis, L. Folcik, M. Drulis (*Inst. of Low Temperature and Structure Research, Wrocław, Poland*), and N.M. Suleimanov (*Kazan' Physicotechnical Inst., Russian Ac. Sci., Kazan', Russian Federation*)
- 7. Comparative Analysis of Inelastic Properties of 214 Lanthanum Perovskites**, by M. Gazda, B. Kusz, and K. Pieniaszek (*Fac. of Appl. Phys. and Mathem., Techn. Univ. of Gdańsk, Poland*)
- 8. On Thermodynamic Properties of d–Wave Paired Superconductors**, by R. Gonczarek and M. Mulak (*Inst. of Phys., Techn. Univ. of Wrocław, Poland*)

9. **The Exchange of Conducting Electrons with Antiferromagnetic Chains**, by E. Hankiewicz, R. Buczko, and Z. Wilamowski (*Inst. of Phys. of Polish Ac. Sci., Warsaw, Poland*)
10. **Studies of Twinned Surface of Superconducting $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$ Single Crystals**, by E. Hankiewicz (*Inst. of Phys. of Polish Ac. Sci., Warsaw, Poland*), W. Sadowski, and T. Klimczuk (*Fac. of Appl. Phys. and Mathem., Techn. Univ. of Gdańsk, Poland*)
11. **Role of Anisotropy of the Impurity Scattering Potential in High- T_c Superconductors**, by G. Harań (*Inst. of Phys., Techn. Univ. of Wrocław, Poland*)
12. **The Superconducting Transition in $\text{Pb}(\text{Sc}_{1/2}\text{Ta}_{1/2})\text{O}_3 - \text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$ Composites**, by A. Kaczmarek, B. Andrzejewski, J. Stankowski, B. Hilczer (*Inst. of Molec. Phys., Polish Ac. Sci., Poznań, Poland*), C. Caranoni, and J. Marfaing (*Fac. des Scis. et Techniq., Lab. Matér., Organ. et Propért., CNRS, Marseille, France*)
13. **Study of Thermal Stability of $\text{Nd}_{2-x}\text{Ce}_x\text{CuO}_{4-y}$ Single Crystals**, by T. Klimczuk and W. Sadowski (*Fac. of Appl. Phys. and Mathem., Techn. Univ. of Gdańsk, Poland*)
14. **Scaling Near the Zero-Temperature Critical Point in the Quantum Two-Dimensional Josephson Junction Arrays**, by T.K. Kopeć (*Inst. of Low Temperature and Structure Research, Wrocław, Poland*) and J.V. José (*Phys. Dept. and Center for Interdisc. Res. on Complex Systems, Northeast. Univ., Boston, MA, USA*)
15. **Electronic Tunneling into the Vortex Lattice States in Superconductors in High Magnetic Field**, by L. Kowalewski, M. Nogala, M. Thomas, and R.J. Wojciechowski (*Inst. of Phys., A. Mickiewicz Univ., Poznań, Poland*)
16. **Superconductivity in Correlated Systems: Modified Slave Boson Study**, by M. Krawiec, T. Domański, and K.I. Wysokiński (*Inst. of Phys., M. Curie-Skłodowska Univ., Lublin, Poland*)
17. **Photoinduced Nonlinear Optics Effects in Y-Ba-Cu-O Films**, by A. Kryza (*Inst. of Phys., Pedagogical Univ., Częstochowa, Poland*)
18. **Intrinsic Pinning in Layered Antiferromagnetic Superconductor**, by T. Krzysztoń (*Inst. of Low Temperature and Structure Research, Wrocław, Poland*)
19. **Percolation of Superconductivity**, by G. Litak (*Dept. of Mechan., Techn. Univ. of Lublin, Poland*) and B.L. Gyorffy (*H.H. Wills Phys. Lab., Univ. of Bristol, Engl., UK*)

20. **Van Hove Singularity and d -Wave Pairing in Disordered Superconductors**, by G. Litak (*Dept. of Mechan., Techn. Univ. of Lublin, Poland*), A. Martin, B.L. Gyorffy, J.F. Annett (*H.H. Wills Phys. Lab., Univ. of Bristol, Engl., UK*), and K.I. Wysokiński (*Inst. of Phys., M. Curie-Skłodowska Univ., Lublin, Poland*)
21. **Microwave Investigations of Py/Cu Multilayers with Various Magnetic Layers Coupling**, by M. Maciąg and J. Stankowski (*Inst. of Molec. Phys., Polish Ac. Sci., Poznań, Poland*)
22. **Pairing Symmetry in the Anisotropic BCS Model**, by M. Maska (*Dept. of Theor. Phys., Silesian Univ., Katowice, Poland*)
23. **Phonon-Induced and Phonon-Free Superconductivity in the Two-Dimensional Hubbard Model. A Strong Coupling Description**, by M. Mierzejewski, J. Zieliński, and A. Cebula (*Inst. of Phys., Silesian Univ., Katowice, Poland*)
24. **Hg-Based Superconducting Thin Films by Laser Ablation with High-Pressure, High-Temperature Treatment**, by A. Morawski, A. Paszewin, T. Łada, A. Presz (*High Press. Res. Center "Unipress", Polish Ac. Sci., Warsaw, Poland*), K. Przybylski (*Fac. of Mater. Sci. and Ceramics, Acad. of Mining and Metallurgy, Cracow, Poland*), P. Gierłowski (*Inst. of Phys., Polish Ac. Sci., Warsaw, Poland*), and R. Gatt (*Synchrotr. Radiat. Cent., Univ. of Wisconsin, Stoughton, WI, USA*)
25. **Theoretical and Experimental Studies of the Magnetostriction Induced by the Pinning Forces in High Temperature Superconductors**, by A. Nabiałek and H. Szymczak (*Inst. of Phys., Polish Ac. Sci., Warsaw, Poland*)
26. **Principles of the Photoinduced Optical Detection of the Disordered Superconductors**, by J. Napieralski, A. Kryza, I.V. Kityk, and J. Kasperczyk (*Inst. of Phys., Pedagogical Univ., Częstochowa, Poland*)
27. **Measurements of Resistivity of HTS Materials**, by W. Nawrocki, B. Susła, and M. Wawrzyniak (*Inst. of Phys., Techn. Univ. of Poznań, Poland*)
28. **Effects of Diagonal Disorder on Charge Density Wave and Superconductivity in Local Pair Systems**, by G. Pawłowski and S. Robaszkiewicz (*Inst. of Phys., A. Mickiewicz Univ., Poznań, Poland*)
29. **Microstructure and Physicochemical Properties of (Hg,Pb)-Ba-Ca-Cu-O (1223) Superconductor Prepared by High Pressure Gas Method**, by K. Przybylski (*Fac. of Mater. Sci. and Ceramics, Acad. of Mining and Metallurgy, Cracow, Poland*),

- A. Morawski, T. Łada, A. Paszewin (*High Press. Res. Center "Unipress", Polish Ac. Sci., Warsaw, Poland*), and T. Brylewski (*Fac. of Mater. Sci. and Ceramics, Acad. of Mining and Metallurgy, Cracow, Poland*)
30. **Magnetism and Fine Electronic Structure of Mott Insulators: La_2CuO_4 and Other 3D Systems**, by R.J. Radwański, Z. Ropka, and R. Michalski (*Cent. for Solid State Physics, Cracow, Poland*)
31. **Thermal Treatment Study and Transport Properties of $\text{PrBa}_2\text{Cu}_3\text{O}_{7-\delta}$ Crystals**, by W. Sadowski, M. Łuszczek (*Fac. of Appl. Phys. and Mathem., Techn. Univ. of Gdańsk, Poland*), and J. Olchowik (*Inst. of Phys., Dept. of Phys., Techn. Univ. of Lublin, Poland*)
32. **Selected Investigations of Applied Electromagnetism in High-Temperature Oxide Superconductors**, by J. Sosnowski (*Inst. of Electrotechnol., Warsaw, Poland*)
33. **The Insulator-to-Metal Transition in the Deoxygenated $\text{Y}_{1-x}\text{Ca}_x\text{Ba}_2\text{Cu}_3\text{O}_{6+\delta}$ System**, by P. Starowicz, B. Penc, J. Sokołowski, and A. Szytuła (*Inst. of Phys., Jagellonian Univ., Cracow, Poland*)
34. **Thermopower Anisotropy for $\text{YBa}_2\text{Cu}_3\text{O}_{6+x}$ Single Crystals with $T_c = 0 - 50 \text{ K}$** , by Cz. Sułkowski, T. Plackowski (*Inst. of Low Temperature and Structure Research, Wrocław, Poland*), and W. Sadowski (*Fac. of Appl. Phys. and Mathem., Techn. Univ. of Gdańsk, Poland*)
35. **Transport Properties and Time Relaxation of Oxygen Sublattice in $\text{Nd}_2\text{CuO}_{4-\delta}$** , by Cz. Sułkowski, A. Sikora, P.W. Klamut, R. Horyń, and M. Wołczyr (*Inst. of Low Temperature and Structure Research, Wrocław, Poland*)
36. **Point Contact Measurements in Superconductors**, by B. Susła (*Poznań, Poland*), W. Sadowski (*Fac. of Appl. Phys. and Mathem., Techn. Univ. of Gdańsk, Poland*), and M. Kamiński (*Inst. of Phys., Techn. Univ. of Poznań, Poland*)
37. **Quantum Creep in "Dense" Mixed State of Type-II Superconductors**, by P. Tekiel (*Inst. of Low Temperature and Structure Research, Wrocław, Poland*)
38. **Crystal Field Effects on Magnetic Properties of R^{3+} Rare Earth Ions in R123 Compounds**, by J. Typek (*Inst. of Phys, Techn. Univ. of Szczecin, Poland*), N. Guskos (*Dept. of Phys., Univ. of Athens, Greece*), M. Wabia (*Inst. of Phys, Techn. Univ. of Szczecin, Poland*), and V. Likodimos (*Dept. of Phys., Univ. of Athens, Greece*)

39. **Magnetic Studies of Flux Pinning in Hg-Based Single Crystals**, by A. Wiśniewski, R. Puźniak, R. Szymczak, M. Baran (*Inst. of Phys., Polish Ac. Sci., Warsaw, Poland*), and J. Karpiński (*Lab. für Festk.physik d. ETH Zürich, Switzerland*)
40. **Superconducting Materials Based on the Binary Compound Mo_6Se_8** , by A. Wojakowski, R. Horyń (*Inst. of Low Temperature and Structure Research, Wrocław, Poland*), O. Peña, C. Hamard, and F. Le Berre (*Chimie du Solide et Inorg. Moléc., Univ. de Rennes, France*)
41. **Symmetry of Binding in Doped Antiferromagnets**, by P. Wróbel (*Inst. of Low Temperature and Structure Research, Wrocław, Poland*) and Robert Eder (*Inst. für Theoretische Physik, Univ. Würzburg, Germany*)

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