



The European Conference
PHYSICS OF MAGNETISM'02

July 1-5, 2002 Poznan, POLAND

CELEBRATING THE 50th ANNIVERSARY OF THE POLISH ACADEMY OF SCIENCES

PHYSICS OF MAGNETISM'02 SCHEDULE [\(pdf\)](#), [\(pdf-2\)](#)

Note that different backgrounds mean distinct places of the Conference: yellow-ON PAN, light blue-Coll. Physicum

for details see: [place of the Conference](#)

MONDAY, JULY 1

14.45-15.00 **OPENING**

A. Jezierski, R. Micnas

I.1 SPIN DYNAMICS AND SPIN DEPENDENT TRANSPORT

Chairmen: A. Jezierski, R. Micnas

15.00-15.35 **P.E. Wigen** (*invited speaker*) Department of Physics, Ohio State University, Columbus, Ohio, USA

Ferromagnetic Resonance Force Microscopy: Probing Ferromagnets at the Micron Level

15.35-16.10 **J. Barnas** (*invited speaker*) Institute of Physics, Adam Mickiewicz University
and Institute of Molecular Physics, PAS, Poznan, Poland

Spin Related Phenomena in Transport Properties of Magnetic Mesoscopic Systems

16.10-16.30 **S. Krompiewski** Institute of Molecular Physics, Polish Academy of Sciences, Poznan, Poland

Effect of Contact Interfaces on Quantum Conductance of Armchair Nanotubes

16.30-17.00 coffee break

I.2 ASPECTS OF MAGNETIC INTERACTIONS

Chairman: J.A. Morkowski

17.00-17.35 **I. Turek** (*invited speaker*) Institute of Physics of Materials, Academy of Sciences
of the Czech Republic, Brno, Czech Republic

Ab initio Theory of Exchange Interactions in Itinerant Magnets

17.35-18.10 **I. Skovranek** (*invited speaker*) Institute of Experimental Physics, Slovak Academy of Sciences, Kosice,
Slovakia

Soft Magnetic Nanocrystalline Materials: Intergrain Coupling and Spin Freezing

18.10-18.45 **W. Nolting** (*invited speaker*) Humboldt-Universitaet zu Berlin, Berlin, Germany

Kondo-Lattice Model: Application to Thin Ferromagnetic Local-Moment Films

19.00- **GET TOGETHER PARTY**

TUESDAY, JULY 2

II.1 MOSTLY RARE-EARTH SYSTEMS

Chairman: L. Kowalewski

9.00-9.35 **A. Simon** (*invited speaker*) Max Planck Institute, Stuttgart, Germany

Magnetism in Low-Dimensional Compounds of Rare Earth Metals

9.35-10.10 **P. Wachter** (*invited speaker*) Laboratorium fuer Festkoerperphysik, ETH Zuerich, Switzerland

Magnetism and Electronic Structure of Actinide Chalcogenides

10.10-10.30 **A. Slebarski** Institute of Physics, University of Silesia, Katowice, Poland

Non-Fermi Liquid Behavior in CeRhSn

10.30-11.00 coffee break

II.2 MOSTLY NON-FERMI LIQUID SYSTEMS

Chairman: R. Troc

11.00-11.35 **B. Andraka** (*invited speaker*) Florida University, Gainesville, USA**Non-Fermi Liquid Behavior in UCu_4Pd and Related Alloys**11.35-12.10 **D. Kaczorowski** (*invited speaker*) W. Trzebiatowski Institute for Low Temperature and Structure Research, Polish Academy of Sciences, Wroclaw, Poland**Unusual Features of Itinerant Antiferromagnetism in UGa_3**

12.10-12.15 break

II.3 MOSTLY MAGNETIC MULTILAYERS

Chairman: H. Szymczak

12.15-12.50 **K. Baberschke** (*invited speaker*) Freie Universitaet Berlin, Berlin, Germany**Ferromagnetic Monolayers: A Fresh Look at Fundamentals**12.50-13.20 **ORAL SESSION I** (O-2-03, O-4-07)

13.20-15.30 lunch break

II.4 RARE-EARTH SYSTEMS, QUANTUM CRITICAL POINTS

Chairman: W. Suski

15.30-16.05 **J.K. Freericks** (*invited speaker*) Georgetown University, Washington, USA**Theoretical Description of the High-Temperature Phase of Yb and Eu Intermetallics**16.05-16.40 **G.G. Lonzarich** (*invited speaker*) Cambridge University, Cambridge, U.K.

16.40-17.10 coffee break

II.5 MOSTLY ELECTRONIC STRUCTURE: FIRST PRINCIPLE METHODS

Chairman: L. Wojtczak

17.10-17.45 **G. Borstel** (*invited speaker*) Department of Physics, Osnabrueck University, Osnabrueck, Germany**Modeling of Defects and Surfaces in Perovskite Ferroelectrics**17.45-18.45 **ORAL SESSION II** (O-7-01, O-7-03, O-2-01, O-2-04)19.30- **RECEPTION PARTY****WEDNESDAY, JULY 3****III.1 THEORY**

Chairman: B. Fechner

9.00-9.35 **C. Lacroix** (*invited speaker*) Laboratoire Louis Neel, CNRS, Grenoble, France**2D and 3D Spin Liquids in Frustrated Systems**9.35-10.10 **K.I. Wysokinski** (*invited speaker*) M. Curie-Sklodowska University, Lublin, Poland**Spin Triplet Superconductivity in Sr_2RuO_4** 10.10-10.30 **I. Eremin** Institut fuer Teoretische Physik, Freie Universitaet, Berlin, Germany**Normal State Spin Dynamics in Sr_2RuO_4 : Anisotropy Due to Spin-Orbit Coupling**

10.30-11.00 coffee break

III.2 MAGNETIC SEMICONDUCTORS

Chairman: R. Galazka

11.00-11.35 **T. Story** (*invited speaker*) Institute of Physics, Polish Academy of Sciences, Warsaw, Poland**Semiconductor EuS-PbS Ferromagnetic Multilayers**11.35-12.10 **S.C. Erwin** (*invited speaker*) Naval Research Laboratory, Washington DC, USA**Self-Compensation and Ferromagnetism in Mn-Doped GaAs**

12.10-12.15 break

III.3 THIN FILMS AND NANOSTRUCTURES

Chairman: R. Galazka

12.15-12.50 **G. Reiss** (*invited speaker*) University of Bielefeld, Bielefeld, Germany**Magneto-electronic Properties of Thin Film Systems and Nanostructures**

12.50-14.40 lunch break

TRANSPORTATION TO THE UNIVERSITY CAMPUS (14.45)

III.4 ORBITAL ORDERING IN MAGNETIC INSULATORS

Chairman: P. Wachter

- 15.30-16.05 **B. Keimer** (*invited speaker*) Max Planck Institute, Stuttgart, Germany
Spin Dynamics in Orbitally Degenerate Magnetic Insulators
- 16.05-16.40 **A.M. Oles** (*invited speaker*) Marian Smoluchowski Institute of Physics, Jagiellonian University, Krakow, Poland
Orbital Ordering and Fluctuations in Transition Metal Oxides
- 16.40-17.10 coffee break
- 17.10-19.10 **POSTER SESSION I** (P-3-01...54; P-4-01...39; P-5-01...27)

THURSDAY, JULY 4**IV.1 STRONGLY CORRELATED ELECTRON SYSTEMS**

Chairman: J. Spalek

- 9.00-9.35 **R. Zeyher** Max Planck Institute, Stuttgart, Germany
Competition Between Superconductivity and the Pseudogap Phase in the t - J Model
- 9.35-10.10 **W. Temmerman** (*invited speaker*) Daresbury Laboratory, Daresbury, Warrington, U.K.
Band Theory of Correlated Electron Systems
- 10.10-10.30 **P. Wrobel** W. Trzebiatowski Institute for Low Temperature and Structure Research, Polish Academy of Sciences, Wroclaw, Poland
Excitons in the Upper Hubbard Band
- 10.30-10.55 coffee break
- 10.55-12.10 **ORAL SESSIONS:**
IIIa Chairman: A. Szytula (O-1-12, 13, 15, 17, 18)
IIIb Chairman: J. Baszynski (O-1-20; O-6-01...04)
- 12.10-12.15 break
- 12.15-13.30 **ORAL SESSIONS:**
IVa Chairman: B. Bulka (O-5-01...04, 07)
IVb Chairman: Z. Jacyna-Onyszkiewicz (O-2-08; O-3-04, 05, 08; O-4-06)
- 13.40-15.30 lunch break
- 15.30-16.15 **ORAL SESSION V** Chairman: A. Sukiennicki (O-2-02, 10; P-2-61)
- 16.15-18.15 **POSTER SESSION II** (P-1-01...38; P-2-01...60; P-6-01...17; P-7-01...13)
bonfire

FRIDAY, JULY 5**V.1 High T_c SUPERCONDUCTORS**

Chairman: S. Robaszkiewicz

- 9.00-9.35 **J. Zaanen** (*invited speaker*) Lorentz Institute for Theoretical Physics, Leiden University, Leiden, The Netherlands
Gauge Theory, Geometry and the Theory of Quantum Stripe Liquids
- 9.35-10.10 **A. Bussman-Holder** (*invited speaker*) Max Planck Institute, Stuttgart, Germany
Two-Component Scenario for Cuprates HTS with Mixed Order Parameters
- 10.10-10.40 coffee break
Chairman: Y. Kakehashi
- 10.40-11.15 **P. Coleman** (*invited speaker*) Rutgers University, Piscataway, USA
How Does the Heavy Electron Decay at a Quantum Critical Point ?
- 11.15-11.35 **J. Haase** Max Planck Institute for the Chemical Physics of Solids, Dresden, Germany
Spin and Charge Inhomogeneity in the Cuprates Characterized by NMR
- 11.35-12.05 **SUMMARY**
- 12.05 **CLOSING**
- 12.30 **LUNCH**



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