

**ADDENDUM:
 AKADEMISCHE UND WISSENSCHAFTLICHE ZUSAMMENARBEIT;
 ÖFFENTLICHKEITSARBEIT UND HAUSHALT
 ACADEMIC AND SCIENTIFIC COOPERATIONS;
 PUBLIC RELATIONS AND BUDGET**

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Ehrungen / *Awards*

Bernd-T.-Matthias-Prize for Superconducting Materials,
Prof. Dr. Frank Steglich für die Entdeckung der
Schwere-Fermionen-Supraleitung
International Conference on Materials and Mechanisms
of Superconductivity and High Temperature
Superconductors (M2S), Dresden 9.-14.07.2006
Wolfram-Prandl-Preis 2006, *Dr. Oliver Stockert*
Egon-Wiberg-Vorlesung 2007, *Prof. Dr. R. Kniep*
Ehrendoktorwürde der Jagiellonischen Universität in
Krakau (Polen) für *Prof. Dr. Frank Steglich*
(Verleihung am 16.12.2008).

Kooperationen / Cooperations

Verträge mit Universitäten und Instituten / Contracts with Universities and Institutes

Kooperationsvereinbarung zwischen der Max-Planck-Gesellschaft und der Technischen Universität Dresden für das Max-Planck-Institut für Chemische Physik fester Stoffe (10/1999)

Agreement on Scientific Partnership between Max Planck Society for the Advancement of Science represented by the Managing Director of the Max Planck Institute for Chemical Physics of Solids, Dresden, and the W. Trzebiatowski Institute of Low Temperature and Structure Research, Polish Academy of Sciences, Wrocław (12/1999)

Agreement on Academic Exchange and Cooperation between the Institute for Solid State Physics of the University of Tokyo and the Max Planck Institute for Chemical Physics of Solids (07/2000)

Memorandum of Understanding, Cooperation and Exchange in the Various Fields of Scientific Activities between the Koç University, Istanbul and Max Planck Institute for Chemical Physics of Solids, Dresden (02/2001)

Memorandum of Understanding Cooperation and Exchange in the Various Fields of Scientific Activities between Department of Chemistry and Department of Material Sciences, Moscow State University, Moscow, and the Max Planck Institute for Chemical Physics of Solids, Dresden (06/2001)

Agreement of Cooperation between the Laboratoire National des Champs Magnétiques Pulsés, Toulouse, France, the High Field Magnet Laboratory, Research Institute for Materials, Nijmegen, The Netherlands, Research Center Rossendorf (FZR), the Leibniz Institute for Solid State and Materials Research Dresden (IFW), the Max Planck Institute for Chemical Physics of Solids, the Max Planck Institute for the Physics of Complex Systems and the Dresden University of Technology, Germany (2002)

Agreement on Scientific Partnership between the National Institute for Materials Science, Tsukuba, Japan, and the Max Planck Institute for Chemical Physics of Solids, Dresden (04/2005)

Agreement on Scientific Partnership between the Laboratoire de Recherche sur la Réactivité des Solides (LRRS) UMR 5613 CNRS - Université de Bourgogne and the Max Planck Institute for Chemical Physics of Solids, Dresden (04/2005)

Agreement on Scientific Partnership between the Shanghai Institute of Ceramics Chinese Academy of Sciences, P. R. China, and the Max Planck Institute for Chemical Physics of Solids, Dresden (07/2005)

Foundation of a MPG/CAS Partner Research Group at the Shanghai Institute of Ceramics (2005)

Memorandum of Understanding – Cooperation and Exchange in Academic and Scientific Activities between the Faculty of Chemistry, National University of Mongolia, Ulaanbaatar, and the Max-Planck-Institute for Chemical Physics of Solids, Dresden (2006)

Foundation of a MPG/PAS Partner Group at the Institute of Low Temperature and Structure Research, Wrocław (2007)

Memorandum of Understanding, Cooperation and Exchange in the Various Fields of Scientific Activities between CNR Kyoto Research Center and the Department Metal Science of the Max Planck Institute for Chemical Physics of Solids, Dresden (2007)

Beteiligung an Sonderforschungsbereichen, Schwerpunkt- und Forschungsprogrammen / Participations in Research Programs

National

Technische Universität Dresden

SFB 463: Seltenerd-Übergangsmetallverbindungen: Struktur, Magnetismus und Transport

Teilprojekt B23: Hochfeld-ESR-Spektroskopie und Hochfeld-Magnetisierung an Seltenerd-Übergangsmetallverbindung (Prof. Dr. J. Wosnitza/FRZ, Dr. M. Dörr/TUD, Dr. V. Katalev/TUD, Dr. J. Sichelschmidt)

Teilprojekt B17: Magnetische Anregungen und Strukturen in stark korrelierten Elektronensystemen in der Nähe magnetischer Instabilitäten

(Prof. Dr. M. Loewenhaupt/TUD, Dr. Oliver Stockert)

Teilprojekt B14: Präparation und Untersuchung der thermodynamischen und Transporteigenschaften von Ce-, Yb- und Eu-Verbindungen (Prof. Dr. F. Steglich, Dr. C. Geibel, Dr. M. Nicklas)

Teilprojekt B22: Einfluss von Elektronischer Korrelation auf Wechselspiel und Konkurrenz von Ordnungsphänomenen (Dr. H. Rosner)

Teilprojekt B3: Schwere Quasiteilchen und Ordnungsphänomene in Verbindung mit 3d/4f Elektronen (Prof. Dr. P. Fulde/MPI PkS, Dr. P. Thalmeier)

DFG Forschergruppe

Quantum Phase Transitions FOR960, *Teilprojekt 01:*

Quantum critical point scenarios in heavy-fermion

systems (Prof. Dr. F. Steglich, Dr. C. Geibel zusammen mit Prof. P. Gegenwart, Universität Göttingen)

DFG-Schwerpunktprogramme

SPP 1166: Lanthanoid-spezifische Funktionalitäten in Molekül und Material

Teilprojekt: Entwicklung von Funktionalen der Paardichte zur mathematisch-physikalischen Beschreibung der chemischen Bindung in mehrkernigen Lanthanoid- und Lanthanoid-Übergangsmetallkomplexen (Dr. F. R. Wagner, Dr. M. Kohout)

SPP 1178: Experimentelle Elektronendichte als Schlüssel zum Verständnis chemischer Wechselwirkungen

Teilprojekt: Electron density and chemical bonding in intermetallic borides and structural analogues - Elektronendichte und chemische Bindung in intermetallischen Boriden und deren Strukturanaloga (Prof. Dr. J. Grin)

Teilprojekt: Metal-metal and metal-ligand interactions from a viewpoint of direct space functionals / Metall-Metall und Metall-Ligand Wechselwirkungen aus der Sicht der Direktraum-Funktionale (Dr. M. Kohout, Dr. F. R. Wagner)

Teilprojekt: Electron densities of intermetallic compounds inspected by spectroscopy / Überprüfung von Elektronendichten intermetallischer Verbindungen durch Spektroskopie (Dr. H. Rosner)

Teilprojekt: Charge density response to an external high electric field / Ladungsdichte-Response auf ein externes hohes elektrisches Feld (Prof. U. Pietsch/Uni Siegen, Dr. H. Borrmann)

SPP 1362: Poröse metallorganische Gerüstverbindungen

Teilprojekt: Prediction, synthesis and characterization of novel Imidazolate based metal organic frameworks (Dr. S. Leoni)

SPP 1236: Strukturen und Eigenschaften von Kristallen bei extrem hohe Drücken und Temperaturen

Teilprojekt: Nitride Chemistry of Geominerals: Formation, crystal structure and properties of multinary metal nitrides prepared at high pressure (Dr. U. Schwarz)

DFG-Einzelförderung

KN 150/14-1 (zusammen mit BR 306/34-1):

Theoretische und experimentelle Untersuchungen zur biomimetischen Morphogenese von Apatit-Gelatine-Nanokompositen

(Prof. Dr. R. Kniep mit Prof. Dr. J. Brickmann)

DFG -SNF Projekt

(Dr. C. F. Miclea, Prof. Dr. A. C. Mota)

DFG-Projekt

WI 1324/1-1: Quantenfluktuationen in elektron-dotierten Manganaten (Dr. S. Wirth)

Nachwuchsgruppe im Emmy-Noether Programm:

Elektronenkorrelation in realistischer Beschreibung der Elektronenstruktur (Dr. Helge Rosner, 2006-2007)

Nachwuchsgruppe im Emmy-Noether Programm:

Wechselspiel von Supraleitung und Magnetismus in niedrigdimensionalen organischen Materialien (Jens Müller, bis Dez. 2008)

DFG-Forschungszentrum für Regenerative Therapien Dresden. Associate Membership (Prof. Dr. R. Kniep)

VW-Stiftung (I/82203)

Electron Spin Resonance of Kondo Ions in Heavy Fermion Compounds: Theory and Experiment (Dr. J. Sichelschmidt, Prof. Dr. F. Steglich)

MPG Institutsübergreifende Forschungsinitiative
The Nature of Laves Phases—From Atomic to Mesoscopic Phenomena

(Prof. J. Grin/Projektkoordination, Dr. G. Kreiner)
Max-Planck-Institut für Eisenforschung Düsseldorf (Prof. Dr. D. Raabe)

Max-Planck-Institut für Metallforschung Stuttgart (Prof. Dr. E. Mittemeijer)

Max-Planck-Institut für Festkörperforschung Stuttgart (Prof. Dr. M. Jansen)

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Max-Planck-Institut für Kolloid- und

Grenzflächenforschung Golm

Max-Planck-Institut für Polymerforschung Mainz

MPG Institutsübergreifende Forschungsinitiative

Material Science and Condensed Matter Research at the Hochfeld-Labor Dresden

(Prof. Dr. F. Steglich, Dr. M. Nicklas)

ECEMP—European Centre for Emerging Materials and Processes Dresden

International

European Commission—the sixth Framework Programme, Nanoscience—Materials—Processes

Network of Excellence (NoE-CMA): Complex Metallic Alloys—CMA (Prof. J. Grin, Dr. G. Kreiner)

European Center for Development of Alloys and Compounds (C-MAC)

(Prof. J. Grin, Dr. G. Kreiner)

European Commission—the sixth Framework Programme

Specific Targeted Research Project: Controlling Mesoscopic Phase Separation

(Dr. S. Wirth)

Verbundforschungsprogramm COST P16

ECOM—Emergent Behaviour in Correlated Matter (Prof. Dr. F. Steglich)

gefördert durch COST (European Cooperation in the Field of Scientific and Technical Research)

Verbundforschungsprogramm

Highly Frustrated Magnetism (HFM)

(Dr. Ch. Geibel, Dr. P. Thalmeier)

gefördert durch die ESF (European Science Foundation)

Research Cooperation with Developing Countries

Physical properties of strongly correlated low charge-carrier-density materials

DFG-BMZ-NRF-Program (Dr. Niels Oeschler,

Prof. A.M. Strydom/University of Johannesburg)

Projektbezogener Wissenschaftler Austausch mit Argentinien

Untersuchungen des ferromagnetischen quantenkritischen Punktes im $\text{CePd}_{1-x}\text{Rh}_x$ System
Dr. Ch. Geibel und Prof. Dr. J. Sereni/Centro Atomico de Bariloche, San Carlos di Bariloche
gefördert durch DAAD ANTORCHAS (PWA 2004) bis Dez. 2006

Search for quantum criticality in CeTX anisotropic compounds with strong ferromagnetic in-plane interactions

Dr. Ch. Geibel Prof. Dr. J. Sereni/Centro Atomico de Bariloche, San Carlos di Bariloche
gefördert durch DAAD PROALAR 2008

Projektbezogener Wissenschaftsaustausch mit Chile
Funktionalisierte anorganische Netze

Prof. Dr. R. Kniep, Dr. R. Cardoso-Gil gemeinsam mit Prof. Dr. E. Spodine und Prof. D. Venegas-Yazigi, Santiago de Chile
gefördert durch DFG, 444CHL-133/35/0-1 im Rahmen der FONDACYT-Projekte

Institute for Complex Adaptive Matter: a New Multicampus Research Program of the University of California (ICAM)

Membership in the group of Max Planck Institutes:
Max Planck Institute for Chemical Physics of Solids (Prof. J. Grin, Prof. Dr. R. Kniep, Prof. Dr. F. Steglich)
Max Planck Institute for the Physics of Complex Systems (F. Jülicher, A. Hübsch)
Max Planck Institute for Solid State Research (Prof. Dr. B. Keimer)
Max Planck Institute for Microstructure Physics (Prof. Dr. U. Gösele)
Max Planck Institute for Colloids and Interfaces (Dr. G. Brezesinski)

Joint Research Project

Orbital and Magnetic Order in Transition-Metal Oxides
Dr. Ch. Geibel, Dr. H. Rosner in cooperation with Tel Aviv University, University Köln and IFW Dresden
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Prof. Dr. W. Suski, Prof. Dr. J. Sznajd, Dr. T. Cichorek,

Dr. V. H. Tran

University of Silesia, Katowice: Prof. Dr. A. Slebarski,

Jagiellonian University Krakow: Prof. Dr. A. Oles,

Dr. Michal Rams, Prof. Dr. J. Spalek

University of Mining and Metallurgy, Kraków:

Prof. Dr. H. Figiel, Prof. Dr. C. Kapusta

Rumänien / Romania

Babes-Bolyai University, Cluj-Napoca: Dr. D. Andreica

Russland / Russian Federation

Moscow State University: Prof. E. V. Antipov,

Prof. Dr. A. A. Gippius, Prof. Dr. A. V. Shevelkov,

Dr. R. V. Shpanchenko, Prof. Dr. A. N. Vasil'ev

Ioffe Physico-Technical Institute RAS, St. Petersburg:

Prof. Dr. V. N. Gurin

St. Petersburg State University: Prof. S. F. Filatov,

Prof. Dr. O. Frank-Kamenetskaya

Joint Institute for Nuclear Research:

Prof. Dr. V. Yushankhai

Schweden / Sweden

Stockholm University: Prof. Dr. M. Nygren,

Prof. Dr. O. Terasaki, Prof. Dr. S. Lidin, Dr. D. Grüner

Schweiz / Switzerland

Universität Bern: Prof. Dr. J. Hulliger,

Dr. K. W. Krämer

Universität Genf., Prof. Dr. Ø. Fischer,

Prof. Dr. T. Giamarchi, Dr. D. Jaccard,

Prof. Dr. D. van der Marel, Prof. Dr. H. Schmid

Paul-Scherrer-Institut Villigen:

Dr. A. Amato, Dr. A. Schenck

ETH Zürich: Prof. Dr. J. Blatter, Prof. Dr. A.-C. Mota,

Prof. Dr. R. Nesper, Prof. Dr. H.R. Ott,

Prof. Dr. T.M. Rice, Prof. Dr. M. Sigrist,

Prof. Dr. W. Steurer

Universität Zürich: Prof. Dr. K. A. Müller

Slowakei / Slovakia

Slovak Academy of Sciences, Institute of Physics,

Bratislava: Marek Mihalkovic

University of Kosice: Prof. Dr. M. Reiffers

Slowenien / Slovenia

University of Ljubljana: Prof. Dr. J. Dolinsek

Taiwan / Taiwan

National Tsing Hua University, Hsinchu:

Prof. Dr. M.-K. Wu

Tschechische Republik / Czech Republic

Charles University Prague: Prof. Dr. V. Sechovski

Academy of Science of The Czech Republic Prague:

Dr. P. Novák

Türkei/ Turkey

Koç University, Istanbul: Prof. Dr. M. Somer

Ukraine / Ukraine

National Academy of Science of Ukraine, Kiev:

Dr. V. Filipov, Dr. W. Paderno

University of Lviv: Dr. L. Akselrud

Polytechnical University of Lviv: Dr. L. Vasylechko

National Forest Academy, Lviv: Dr. O. Sichevych

USA / U.S.A.

Ames National Laboratory, Ames (Iowa):

Prof. P. Canfield, PhD; Prof. K. Gschneidner, PhD;

Prof. Dr. G. Miller, Prof. Dr. V. Pecharsky

Argonne National Laboratory:

Dr. A. M. Kini, Dr. J. A. Schlueter

Arizona State University: Prof. Dr. Dong-Kyun Seo

Colorado State University, Fort Collins:

Prof. Dr. H. D. Hochheimer

Florida State University Tallahassee:

Prof. S. von Molnár, PhD

University of South Florida, Tampa:

Prof. G. S. Nolas, PhD

LANL, Los Alamos (New Mexico): Dr. A. V. Balatsky,

Dr. A. H. Lacerda, Dr. R. Movshovich, Dr. J. L. Sarrao,

Dr. J. D. Thompson

NHMFL, Tallahassee (Florida):

Dr. G. Boebinger, Prof. Dr. L. P. Gor'kov,

Rice University Houston: Prof. Q. Si PhD,

Dr. S. Kirchner

Rutgers University New Jersey: Prof. E. Abrahams,

PhD; Prof. P. Coleman, PhD; Prof. G. Kotliar, PhD

UF Gainesville: Dr. B. Andraka,

Prof. G. R. Stewart, PhD

UC Berkeley: Prof. N. E. Phillips, PhD

UC Davis: Prof. N. Curro, PhD; Prof. S. M. Kauzlarich,

PhD

UV Irvine: Prof. Z. Fisk, PhD

UC San Diego: Prof. M. B. Maple, PhD

UC Santa Barbara: Prof. D. J. Scalapino, PhD

University of Houston (Texas):

Prof. Dr. A. Guloy, Prof. S. Pan, PhD

University of Nevada, Las Vegas: Prof. A. Cornelius,

PhD

University of Southern California, Los Angeles:

Prof. Dr. K. Maki

Naval Research Laboratory: Dr. D. Parker

Beteiligungen, Kooperationen mit Firmen / Cooperations with companies

SusTech GmbH & Co. KG Darmstadt

Prof. Dr. R. Kniep

AXO Dresden GmbH – Applied X-ray Optics and High Precession Deposition

Th. Holz/AXO Dresden GmbH

R. Dietz/Fraunhofer-Institut für Werkstoff- und Strahltechnik, Dresden)

Dr. H. Borrmann/MPI CPfS)

BASF – Selektive Alkane Oxidation

Prof. Dr. R. Kniep

Patente / Patents

Use of thermoelectric materials for low temperature thermoelectric purposes

A. Bentien, F. Steglich (MPI CPfS)

zusammen mit: S. Johnsen, G. K. H. Madsen,

B. B. Iversen (Univ. Aarhus, Dänemark)

Weltweite PCT-Anmeldung, W028067815A2, 2007.

Palladium-Gallium Intermetallic Compounds as Catalysts for the Selective Hydrogenation of Acetylene

J. Osswald, R. Giedigkeit, M. Armbrüster, K. Kovnir,

R. E. Jentoft, T. Ressler, Yu. Grin, R. Schlögl

Europäisches Patent angemeldet, EP1834939A1, 2006.

Internationales Patent angemeldet, WO2007104569, 2007.

Europäisches Patent angemeldet, EP07723306, 2008.

Chinesisches Patent angemeldet, CN0780009214, 2008.

Indonesisches Patent angemeldet, ID200802979, 2008.

Malayisches Patent angemeldet, MA06005310, 2008.

Singapurisches Patent angemeldet, SG00806762-1, 2008.

US Patent angemeldet, US12/282920, 2008.

Methods of Preparing, Optionally Supported, Ordered Intermetallic Palladium Gallium Compounds, the

Compounds as such, and Their Use in Catalysis

M. Armbrüster, M. Schmidt, K. Kovnir, M. Friedrich,

K. Weinhold, Yu. Grin, R. Schlögl

Europäisches Patent angemeldet, EP07021904, 2007.

Internationales Patent angemeldet, PCT/EP2008/064668,

2008.

Use of a Mixture of an Ordered Intermetallic

Compound and an Inert Material as a Catalyst and

Corresponding Hydrogenation Processes

M. Armbrüster, M. Schmidt, K. Kovnir, M. Friedrich,

K. Weinhold, Yu. Grin, R. Schlögl

Europäisches Patent angemeldet, EP07018368, 2007.

Internationales Patent angemeldet,

PCT/EP2008/062424, 2008.

Tagungen, Workshops und Seminare Conferences, Workshops and Symposia

2006

Experimental Physics of Emergent Materials

Workshop, 15.01.-17.01.2006

Organisation: Prof. Juri Grin

The Nature of Laves Phases VI

Workshop, 13.03.2006

Organisation: Dr. Guido Kreiner

Strongly Correlated Electrons

Workshop, 11.05.2006

Organisation: Dr. Peter Thalmeier

Key User

Personalwesen MPG, Workshop 16.05.-17.05.2006

Organisation: Carmen Kratochwil

2nd Bilateral Workshop on "Basics in Real Space Theories"

Workshop, 17.07.-19.07.2006

Organisation: Prof. Dr. Rüdiger Kniep, Dr. Dirk Zahn,
Dr. Frank R. Wagner

11. Fortbildungsseminar Spektroskopie mit Praktikum

23.03.2006

Veranstalter: Firma Varian

Kontakt: Dr. Gudrun Auffermann

Biominalisation

Workshop, 01.02.2006

Organisation: Prof. Dr. Rüdiger Kniep

2007

Dresdner Abhandlungen zur Chemischen Physik fester Stoffe

Workshop, 12.01.2007

Organisation: Prof. Juri Grin

Electron Localizability and Analysis of Chemical Bonding

Workshop, 28.01.-03.02.2007

Organisation: Dr. Frank R. Wagner,

Dr. Miroslav Kohout, Prof. Juri Grin

Electron Density

Workshop, 29.11.-30.11.2007

Organisation: Dr. Horst Borrmann, Prof. Juri Grin

Zur Morphologie von Apatit-Gelatine-Kompositen

Workshop, 15.11.2007

Organisation: Prof. Dr. Rüdiger Kniep

12. Fortbildungsseminar Spektroskopie mit Praktikum

25.01.2007

Veranstalter: Firma Varian

Kontakt: Dr. Gudrun Auffermann

MRS Fall Meeting 2007

Symposium Q: Nitrides and Related Bulk Materials

Nov. 26-30, 2007

Symposium Organisier: Prof. Dr. Rüdiger Kniep

VBL-Tagung der MPG

16.10.-17.10.2007

Organisation: Petra Nowak

MPG-Tagung Rechnungswesen

22.-24.10.2007

Organisation: Petra Nowak (in Zusammenarbeit mit

MPI CGB und MPI PkS)

2008

International Conference Advanced Processing of Novel Functional Materials—APNFM 2008,

Congress Center Dresden, 23.01.-25.01.08

Organization: Prof. Juri Grin (MPI CPfS),

Prof. Dr. Bernd Kieback (Fh IFAM)

CEO: Dr. Jürgen Schmidt (Fh IFAM)

Secretary: Claudia Strohbach (MPI CPfS)

16th International Conference on Solid Compounds of Transition Elements—SCTE 2008

Westin Bellevue Hotel / Conference Centre,

26.09.-31.09.2008

Organization: Prof. Juri Grin (MPI CPfS)

CEO: Dr. Ulrich Schwarz (MPI (CPfS)

Secretary: Katrin Demian (MPI CPfS)

Chemischer Transport 2008

Workshop, 03.01.2008

Organisation: Dr. Marcus Schmidt

DGM Fachausschusssitzung Intermetallische Phasen

09.01.2008

Organisation: Dr. Guido Kreiner

The Nature of Laves Phases X

Workshop, 10.01.2008

Organisation: Dr. Guido Kreiner

Electron Localizability and Analysis of Chemical Bonding

Workshop, 10.02.-13.02.2008

Organisation: Dr. Frank R. Wagner,

Dr. Miroslav Kohout, Prof. Juri Grin

Technologie-Tage

Workshop, 25.02.-27.02.2008

Organisation: Dr. Burkhard Schmidt (zusammen mit HP und Apple)

Barcode

MPG-Workshop, 03.06.-04.06.2008

Organisation: Steffen Kolberg, Hr. Schilling (MPG)

10th German-Japanese Symposium "Collective Quantum Phenomena in Correlated Condensed Matter Systems", Schloß Ringberg,

28.09.-01.10.2008

Organisation: Dr. Christoph Geibel

CPT-Herbsttagung der Bibliothekare der MPG

13.10.-14.10.2008

Organisation: Ina Wanschura

13. Fortbildungsseminar Spektroskopie mit Praktikum

21.02.2008

Veranstalter: Firma Varian

Kontakt: Dr. Gudrun Auffermann

Vorträge auswärtiger Gäste *Lectures of Foreign Guests*

Frontiers in Chemical Physics of Solids

Prof. Gilbert Lonzarich, PhD, Cavendish Laboratory
Cambridge, UK

New Physics on the Border of Quantum Phase
Transitions (22.05.2006)

Prof. Gabriel Kotliar, PhD, Department of Physics and
Astronomy, Serin Physics Laboratory, Rutgers
University, NJ, USA

Understanding Heavy Fermions: A Dynamical Mean
Field Perspective (24.04.2007)

Prof. Douglas J. Scalapino, PhD, Department of
Physics, University of California, Santa Barbara, USA
The Name of the Rose – Spin fluctuations (15.11.2007)

Prof. Qimiao Si, PhD, Department of Physics and
Astronomy, Rice University, Houston, Texas, USA
Strongly Correlated Electrons: From Quantum
Criticality to the High T_C Iron Pnictides (19.06.2008)

CPfS Lecture Series on the Physical Chemistry of Solids

Prof. Dr. H. F. Franzen, Ames, Iowa, USA
Basic Principles of Symmetry and Landau Theory
(10.10.2006, 11.10.2006, 12.10.2006, 13.10.2006)

Prof. Gabriella Borzoni, Università di Genova,
Switzerland
Chemistry and Reactivity of Nickel Aluminides of
Rare-Earth Metals (12.01.2007)

Prof. Donata Maria Mazzone, Università di Genova
Behaviour and constitutional properties of the R-(Cu,
Ag, Au)-X alloys (R=rare earth elements, X= p-block
elements) (12.01.2007)

Prof. Adriana Saccone, Università di Genova
Mg-alloys with Rare Earth Metals: constitutional and
applicative properties. A research activity carried out at
the Department of Chemistry of the Genova University
(12.01.2007)

Prof. Maria Luisa Fornasini, Università di Genova
Phase stability and crystal chemistry in the Yb-Cu-Sn,
Eu-Cu-Sn and Yb-Zn-Al systems (12.01.2007)

Prof. Franco Merlo, Università di Genova
Volume effects in rare earth intermetallics (12.01.2007)

Prof. Vitalij K. Pecharsky, Iowa State University, USA
Complex hydrides—a new frontier for future energy
applications (12.01.2007)

Prof. Dr. Wolfgang Jeitschko, Institut für Anorganische
und Analytische Chemie, Westfälische Wilhelms-
Universität Münster
Displacive Phase Transitions in Solids: crystallographic
aspects, structure-chemical considerations, theory and
technical applications (21. und 22.06.2007)

Gemeinsames Anorganisches Kolloquium der TU Dresden und des MPI CPfS

Prof. Dr. Christoph Janiak, Institut für Anorganische
und Analytische Chemie, Universität Freiburg
Von Koordinationspolymeren zu wasserstoff-
verbrückten Netzwerken (30.05.2006)

Prof. Dr. Berthold Kersting, Institut für Anorganische
Chemie, Universität Leipzig
CONTAINER-MOLEKÜLE: Von der Steuerung
chemischer Reaktionen bis zur Fixierung des
Treibhausgases (04.07.2006)

Prof. Dr. Lars Kloo, Inorganic Chemistry, Royal
Institute of Technology, Stockholm, Sweden
Subvalent chemistry in room temperature reaction media
(06.10.2006)

Prof. Dr. Dirk Volkmer, Anorganische Chemie II,
Universität Ulm
Bionische Konzepte im Material-Design (08.05.2007)

Prof. Dr. Thomas Schleid, Institut für Anorganische
Chemie, Universität Stuttgart
Anionisch derivatisierte Lanthanoid(III)-Nitride
(05.06.2007)

Dr. Florian Weigend, Institut für Nanotechnologie,
Forschungszentrum Karlsruhe
Dichtefunktionalrechnungen an homo- und
heteroatomaren Metallclustern (13.11.2007)

Prof. Dr. Wolfgang Scherer, Institut für Physik,
Universität Augsburg
On the nature and consequences of ligand-induced
charge concentrations in chemistry and physics
(4.12.2007)

Prof. Dr. Wolfgang Bensch, Institut für Anorganische
Chemie, Universität Kiel
Interkalationschemie: Eine attraktive Synthesemethode
zur Veränderung struktureller und physikalischer
Eigenschaften von Feststoffen (18.12.2007)

Prof. Dr. Stefan Mecking, Universität Konstanz
Nanoskalierung von Polymerkristallen und
halbleitenden Polymeren durch organometallische
Katalyse (29.01.2008)

Prof. Dr. Joachim Schoenes, Institut für Physik der
Kondensierten Materie, Technische Universität
Braunschweig
Das ThAsSe Puzzle (11.02.08)

Prof. Dr. Hubertus T. Hintzen, Department of Chemical
Engineering and Chemistry, Eindhoven University of
Technology, Eindhoven, The Netherlands
Nitride-based materials: from structural to functional
properties (15.04.2008)

PD Dr. Tom Nilges, Institut für Anorganische und
Analytische Chemie, Westfälische Wilhelms-
Universität Münster
Strategien zur Realisierung und Charakterisierung neuer
Polyphosphide und Polytelluride des Kupfers und
Silbers (29.04.2008)

Prof. Dr. Norbert Stock, Institut für Anorganische Chemie, Christian-Albrechts-Universität, Kiel
Anorganisch-organische Hybridverbindungen – von funktionalisierten porösen Gerüstverbindungen zu „intelligenten“ Kern-Schale Partikeln (27.05.2008)

Prof. Dr. M. Rosseinsky, Department of Chemistry, University of Liverpool, UK
New chemistry of oxides and nanoporous materials (10.06.2008)

Prof. Dr. Aziz Dinia, CNRS, Institut de Physique et de Chimie des Matériaux de Strasbourg, France
Magnetic tunnel junctions based on the half-metal SrFe₂MoO₆ grown by pulsed laser deposition (01.07.2008)

Dr. Arne Thomas, Max Planck Institute of Colloids and Interfaces Research, Campus Golm, Potsdam
Porous Materials: From Hard to Soft Functional Frameworks (28.10.2008)

Prof. Dr. Martin Kaupp, Institut für Anorganische Chemie, Universität Würzburg
Relativistische Quantenchemie als Werkzeug der Anorganischen Chemie: Von den höchsten Oxidationsstufen bis zu Metalloenzymen (09.12.2008)

Lectures

2006

Prof. Dr. Christoph Renner, London Centre for Nanotechnology and Department of Physics and Astronomy, University College London, UK
STM of strongly correlated transition metal oxides: Success and challenges (16.01.2006, Workshop “Experimental Physics of Emergent Materials”)

Prof. Dr. Thomas T. M. Palstra, Department of Chemical Physics, Materials Science Centre, University of Groningen, NL
Complex electronic order in oxides and organics (16.01.2006, Workshop “Experimental Physics of Emergent Materials”)

Prof. Dr. Ralph Claessen, Physikalisches Institut, Universität Würzburg
Photoemission studies of complex solids: Organics, oxides & others (16.01.2006)

Prof. Dr. Marc S. Golden, Van der Waals-Zeeman Institute for Experimental Physics, University of Amsterdam, NL
Complexity calling: The creation, imaging and control of electronic quantum matter (16.01.2006, Workshop “Experimental Physics of Emergent Materials”)

Prof. Dr. Michael Lang, Physikalisches Institut, Johann Wolfgang Goethe-Universität, Frankfurt/Main
Molecule-based interacting electron systems (16.01.2006, Workshop “Experimental Physics of Emergent Materials”)

Prof. Dr. Peter Böni, Physik-Department E21, Technische Universität München

Exploring unconventional materials with novel techniques (16.01.2006, Workshop “Experimental Physics of Emergent Materials”)

Prof. Dr. Nicola Hüsing, Anorganische Chemie I, Universität Ulm
Nanostrukturiertes SiO₂: Vom dünnen Film zum Monolithe (17.01.2006)

Dipl. Phys. Paul Popovich, Forschungszentrum Karlsruhe
Magnetostriction and thermal expansion of untwined YBa₂Cu₃O_{7.0} single crystals (19.01.2006)

Dr. Daniel Sebastiani, MPI für Polymerforschung, Mainz
Electronic structure based predictions of NMR and NQR spectra of complex supramolecular systems (27.01.2006)

Dr. Ryouzuke Shiina, Department of Physics, Tokyo Metropolitan University, Tokyo, Japan
Theory of multipolar orders and fluctuations in f electron systems (16.02.2006)

Prof. Dr. Ernst Bauer, Institut für Festkörperphysik, Technische Universität Wien, Österreich
REPt₃Si: A playground for interesting states of matter (10.03.2006)

Prof. Dr. Peter Rogl, Institut für Physikalische Chemie, Universität Wien, Österreich
On the Laves Phase in the System Ti-Fe-Ni-Al (13.03.06, im Rahmen der Veranstaltung „Laves Phases VI“)

Dr. Nagesh S. Kini, Department of Applied Chemistry, Graduate School of Engineering, Hiroshima University, Hiroshima, Japan
Synthesis of single crystal 3D polymers of C₆₀ under high-pressure and high-temperature conditions, their structure and properties (16.03.2006)

Prof. Dr. Åke Kvick, The European Synchrotron Radiation Facility (ESRF), Grenoble, France
Scientific Opportunities in Materials Science at the European Synchrotron Radiation Facility (31.03.2006)

Dr. Manuel Brando, Department of Physics, University of London, Egham, UK
Quantum criticality in NbFe₂ (03.04.2006)

Dr. Tuson Park, Condensed Matter and Thermal Physics, Los Alamos National Laboratory, Los Alamos, NM, USA
Hidden magnetism and quantum criticality in the heavy fermion superconductor CeRhIn₅ (04.04.2006)

Prof. Dr. Ole Krogh Andersen, Max-Planck-Institut für Festkörperforschung, Stuttgart
How cation-covalency controls electron localization in (t_{2g})¹ perovskites (05.04.2006)

Prof. Dr. Dorj Daichaa, Faculty of Chemistry, National University of Mongolia, Ulaanbaatar, Mongolia
Some results of the investigation on rare-earth elements and environmental chemistry (21.04.2006)

- Prof. Dr. Manfred Martin*, Institut für Physikalische Chemie, RWTH Aachen
Morphologische Instabilitäten bei Festkörperreaktionen: Mikrostrukturierte Grenzflächen (25.04.2006)
- Dr. Ramesh Nath*, Experimentalphysik V, Institut für Physik, Universität Augsburg
Magnetic properties of some low-dimensional $S=1/2$ systems probed by NMR (27.04.2006)
- Dr. Georg Kent Hellerup Madsen*, Department of Chemistry, University of Aarhus, Aarhus, Denmark
Anharmonic dynamics of clathrate guest-atoms (27.04.2006)
- Prof. Dr. E. V. Sampathkumaran*, Department of Condensed Matter Physics & Material Sciences, Tata Institute of Fundamental Research, Mumbai, India
Geometrically frustrated spin-chain systems, $(Ca, Sr)XYO_6$ ($X, Y =$ transition metals) (18.05.2006)
- Dr. Matteo Ceccarelli*, Department of Physics and Sardinian Laboratory for Computational Materials Science, University of Cagliari, Italy
Microscopic view of a molecular switch: an MD investigation (19.05.2006)
- Prof. James S. Schilling, PhD*, Department of Physics, Washington University, St. Louis, MO, USA
Studies in Superconductivity at Extreme Pressures (01.06.2006)
- Prof. Dr. Claudia Wickleder*, Anorganische Chemie II, Universität Siegen
Neue Anorganische Leuchtstoffe (13.06.2006)
- Dr. Katrin Pelzer*, Fritz-Haber-Institut der MPG, Berlin
Ruthenium nanoparticles stabilized by ligands grafted on the surface (16.06.2006)
- Prof. Russell E. Walstedt, PhD*, Advanced Science Research Center, JAERI, Tokai, Japan
NMR/NQR Studies of ^{69}Ga in $Pu(Rh, Co)Ga_5$ Superconductors above and below T_c (22.06.2006)
- Prof. Dr. Je-Geun Park*, Department of Physics, Sungkyunkwan University, Suwon, Korea
Coupling of multiple degrees of freedom in strongly correlated electron systems (22.06.2006)
- Dr. Peter Wahl*, Max-Planck-Institut für Festkörperforschung, Stuttgart
Local Spectroscopy of Correlated Electron Systems at Metal Surfaces (06.07.2006)
- Prof. Dr. Yuji Aoki*, Department of Physics, Tokyo Metropolitan University, Japan
Unconventional superconductivity and quadrupolar order in rare earth skutterudite compounds (17.07.2006)
- Dr. Wen-Yong Zhang*, Fachgebiet Physikalische Metallkunde, Fachbereich Materialwissenschaft, Technische Universität Darmstadt
Effect of doping on structure, electrical transport and magnetic properties of Na_xCoO_2 layered compound (03.08.2006)
- Prof. Dr. Stefan Hühfner*, Fachrichtung 10.2 – Experimentalphysik, Universität des Saarlandes
High-resolution photoelectron spectroscopy: surface states, the Kondo resonance and the Fermi liquid (11.08.2006)
- Dr. Huiqiu Yuan*, Department of Physics, University of Illinois, Urbana, USA
Superconductivity in materials without inversion symmetry: Li_2Pd_3B and Li_2Pt_3B (17.08.2006)
- Prof. Dr. B. S. Chandrasekhar*, Walther-Meißner-Institut, Garching
Low Temperature Physics and Physicists sixty years ago: Some Reminiscences (06.09.2006)
- Prof. Dr. Satoru Nakatsuji*, Institute for Solid State Physics, University of Tokyo, Kashiwa, Chiba, Japan
Frustrated spins and spin liquid behavior of a triangular magnet and a pyrochlore Kondo lattice (07.09.2006)
- Dr. Katsunori Kubo*, Advanced Science Research Center, Japan Atomic Energy Agency, Tokai, Ibaraki, Japan
Orbital-controlled superconductivity in Ce^{115} compounds (14.09.2006)
- Prof. Douglas MacLaughlin, PhD*, Department of Physics, University of California, Riverside, USA
Time reversal symmetry and multiband superconductivity in filled-skutterudite superconductors (21.09.2006)
- Dr. Ilya Eremin*, MPI for the Physics of Complex Systems Dresden and TU Braunschweig
Magnetic field dependence of the superconducting gap node topology in non-centrosymmetric $CePt_3S$ (21.09.2006)
- Dr. Marc Scheffler*, Kavli Institute of Nanoscience Delft, Delft University of Technology, Delft, The Netherlands
Drude response of heavy fermions - optics at very low frequencies (28.09.2006)
- Prof. Dr. Bernd Harbrecht*, Anorganische Chemie, Philipps-Universität Marburg
Tantalreiche Telluride (10.10.2006)
- Dr. Katarina Removic-Langer*, Physikalisches Institut, Johann Wolfgang Goethe-Universität, Frankfurt am Main
Carboxylate bridged 3d-metal chains with Betaine and Oxalate: Structural and Magnetic Properties (08.11.2006)
- Dr. Zakir Hossain*, Department of Physics, Indian Institute of Technology Kanpur, Indien
Crystal Field Effect, Magnetism and Superconductivity of Pr-Compounds (09.11.2006)
- Dr. Daniela Zander*, Fachbereich Bio- und Chemieingenieurwesen, Universität Dortmund
Einfluss der Gießverfahren auf die Mikrostruktur und Korrosion von Mg-Legierungen (10.11.2006)

Prof. Dr. Erwin A. Schubert, Walther-Meißner-Institut, Garching

NMR an festem ^3He bei mK-Temperaturen: ungewöhnliche Spinrelaxation (16.11.2006)

Prof. Dr. Wolfgang Tremel, Institut für Anorganische und Analytische Chemie, Johannes Gutenberg-Universität Mainz

Chalcogenide Nanoparticles - Synthesis, Structure and Reactivity (21.11.2006)

Dr. Kamran Behnia, Ecole Supérieure de Physique et de Chimie Industrielles, Paris, France

Nernst effect, unidentified orders and semi-metallicity in heavy-fermion compounds (24.11.2006)

Prof. Dr. Reinhold Kleiner, Physikalisches Institut - Experimentalphysik II, Universität Tübingen

Fractional Vortices in Superconductors (29.11.2006)

Prof. Dr. Armin Reller, Institut für Physik, Universität Augsburg

Anorganische Funktionsmaterialien für eine effiziente Energietechnologie (05.12.2006)

Prof. Dr. Christian Pfleiderer, Physik Department, TU München

Quantum order in chiral magnets (20.12.2006)

2007

Prof. Dr. Hellmut Eckert, Institut für Physikalische Chemie, Westfälische Wilhelms-Universität Münster

Modern solid state NMR strategies for structural studies of disordered materials (09.01.07)

Dr. Andrea Bianchi, Department of Physics & Astronomy, University of California, Irvine, USA

Magnetic Moment Formation in Solids, or why Heavy fermions still matter (16.01.2007)

Prof. Dr. A. M. Strydom, Physics Department, Rand Afrikaans University, Johannesburg, South Africa

Exploratory studies of physical properties of new $\text{R}_3\text{M}_4\text{Ge}_{13}$ compounds (22.01.2007)

Prof. Dr. Edwin Kroke, Institut für Anorganische Chemie, TU Bergakademie Freiberg

Molekülchemische Wege zur Synthese von Hybridmaterialien, Hartstoffen und Hochdruckphasen (06.02.2007)

Dr. Ryosuke Shiina, Department of Physics, Tokyo Metropolitan University, Tokyo, Japan

Role of multipoles in Pr-based skutterudites – present status on $\text{PrOs}_4\text{Sb}_{12}$ and $\text{PrFe}_4\text{P}_{12}$ (08.02.2007)

Prof. Qimiao Si, PhD, Department of Physics & Astronomy, Rice University, Houston, Texas, USA

Fermi Surface and Antiferromagnetism in Kondo Lattice Systems (Seminar, 12.02.2007)

Dr. Gerald Wigger, Fachbereich Physik, Freie Universität Berlin

Kondo-type Interactions in non-Cerium Materials (08.03.2007)

Prof. Dr. Richard M. Lambert, University of Cambridge, UK

Where surface science meets heterogeneous catalysis: out of ultra high vacuum and into the real world (16.03.2007)

Prof. Dr. Ernst Bauer, Institut für Festkörperphysik, Technische Universität Wien, Österreich

Ground state properties of $\text{Yb}_2\text{Pd}_2(\text{In}, \text{Sn})$: Two quantum critical points in a single system? (04.04.2007)

Prof. Dr. W. Jeitschko, Institut für Anorganische und Analytische Chemie, Westfälische Wilhelms-Universität Münster

Polyanions in Solids (13.04.2007)

Prof. Dr. Michael Binnewies, Institut für Anorganische Chemie, Universität Hannover

Bildung, Eigenschaften und Anwendungspotential organosubstituierter anorganischer Nanopartikel (17.04.2007)

Dr. Ulrich Rößler, Leibniz-Institut für Festkörper- und Werkstoffforschung Dresden

Modulated and localized spin textures in chiral magnets (19.04.2007)

Prof. Dr. H.-Jürgen Meyer, Abteilung für Festkörperchemie und Theoretische Anorganische Chemie, Institut für Anorganische Chemie, Universität Tübingen

Festkörper-Metathese-Reaktionen für Stoffsynthesen im System Metall-B-C-N

Prof. Dr. Kenji Ishida, Graduate School of Science, Kyoto University, Japan

Quantum critical behaviors observed in 1st and 2nd order transitions (07.05.2007)

Dr. Neil Mathur, Department of Materials Science, University of Cambridge, UK

Transformation of spin information into large electrical signals using carbon nanotubes (25.05.2007)

Dr. Koji Kaneko, Advanced Science Research Center, Japan Atomic Energy Agency, Ibraki, Japan

Quadrupolar interaction and rattling in the heavy fermion superconductor $\text{PrOs}_4\text{Sb}_{12}$ (31.05.2007)

Dr. Matthias Krack, ETH Zürich, Schweiz

Approaching the nanosecond time scale in ab-initio molecular dynamics simulations (06.06.2007)

Dr. Klaus Morawetz, Institut für Physik, Technische Universität Chemnitz

Bernoulli potentials in superconductors – how electric fields help to understand superconductivity (07.06.2007)

Prof. Dr. Jürgen Köhler, Max-Planck-Institut für Festkörperforschung, Stuttgart

Anionic Late Transition Metals as p Elements (08.06.2007)

Dr. Dietrich Maurer, Institut für Experimentalphysik, Freie Universität Berlin

Vortex dynamic in Hg-1201: Untersuchungen von DC und AC Magnetisierungskurven in der Shubnikov (Vortex-) Phase (13.06.2007)

- Prof. Dr. Klaus Lüders*, Fachbereich Physik, Freie Universität Berlin
Carbon based superconductors: Little Neighbours of High- T_c 's (14.06.2007)
- Prof. Dr. Ulrich Abram*, Institut für Chemie, Freie Universität Berlin
Technetium und Rhenium – Koordinationschemie vor medizinischem Hintergrund (19.06.2007)
- Prof. Dr. Dirk van der Marel*, Département de Physique de la Matière Condensée, Geneve, Suisse
Can high T_c superconductivity be explained with the BCS model? An optical approach (21.06.2007)
- Prof. Dr. Markus Morgenstern*, II. Physikalisches Institut B, RWTH Aachen
Scanning tunneling spectroscopy of interacting electrons: low-dimensional semiconductors and itinerant ferromagnets (25.06.2007)
- David Grossin*, CRISMAT Laboratory, France
Microwave processing and characterization of applied oxides (KGB; 25.06.2007)
- Prof. Dr. Andrea Gauzzi*, University “Pierre and Marie Curie”-CNRS, Paris, France
Pressure-induced enhancement of superconductivity and structural instability in the new graphite intercalated superconductor CaC_6 (12.07.2007)
- Dr. Angela Trapananti*, ESRF, Grenoble, France
Opportunities for high pressure studies using X-ray absorption spectroscopy at the ESRF (18.07.2007)
- Prof. Dr. Collin L. Broholm*, Department of Physics and Astronomy, The Johns Hopkins University, Baltimore USA
Ferroelectricity in frustrated magnets (19.07.2007)
- Prof. Dr. Collin L. Broholm*, Department of Physics and Astronomy, The Johns Hopkins University, Baltimore, USA
Spin dynamics in CeTIn_5 (20.07.2007)
- Prof. Dr. Reinhard Nesper*, Laboratorium für Anorganische Chemie, ETH Zürich
Solid State Chemistry and new Materials – from Molecules, Nanoparticles and Bulk Matter to Applications (20.07.2007)
- Prof. Dr. Mike Whangbo*, Department of Chemistry, North California State University, USA
Spin exchange interactions an electronic structures of magnetic solids (24.07.2007)
- Prof. Dr. Shin-ichi Kimura*, UVSOR Facility, Institute for Molecular Science, Okazaki National Research Institutes, Japan
Electrodynamics of spin-fluctuation materials (27.07.2007)
- Dr. Takahiro Ito*, UVSOR Facility, Institute for Molecular Science, Okazaki National Research Institutes, Japan
Angle-resolved photoemission study on strongly correlated f electron systems (27.07.2007)
- Dr. Wei Ku*, Condensed Matter Physics & Materials Science, Brookhaven National Laboratory, Upton, NY, USA
Wannier Functions in Correlated Materials: Gapless CDW & new superconducting pair suppression (01.08.2007)
- Prof. George S. Nolas, PhD*, Department of Physics, University of South Florida, Tampa, FL, USA
Fundamental Study of Inorganic Clathrate (06.08.2007)
- Dr. Gabriel Seyfarth*, Néel Institute (Condensed Matter and Low Temperatures, MCBT) – CNRS 25, Grenoble, France
Multiband Superconductivity in Heavy Fermion Systems $\text{PrOs}_4\text{Sb}_{12}$ and CeCoIn_5 (23.08.2007)
- Prof. Dr. Liu Hao Tjeng*, II. Physikalisches Institut, Universität zu Köln
Orbital, spin, and charge degrees of freedom in strongly correlated systems: New insights and new opportunities for materials science (06.09.2007)
- Prof. Dr. Elżbieta Zipper*, University of Silesia, Institute of Physics, Division of Theoretical Physics, Katowice, Poland
Flux Qubit on a Semiconducting Quantum Ring (05.10.2007)
- Prof. Dr. Julian Sereni*, Low Temperature Laboratory, Centro Atómico de Bariloche, Argentina
Ferromagnetic critical behavior in $\text{CePd}_{1-x}\text{Rh}_x$ (08.10.2007)
- Prof. Dr. Christian Bernhard*, Department of Physics and FriMat Center for Nanomaterials, University of Fribourg, Switzerland
Infrared ellipsometry on cuprate high T_c superconductors – spectroscopic distinction between normal state pseudogap and superconducting gap (12.10.2007)
- Prof. Dr. Pavel A. Alekseev*, Institute of Superconductivity and Solid State, Russian Research Centre Kurchatov Institute, Moscow, Russian Federation
Excitation spectra of YbB_{12} Kondo-insulator: neutron scattering study (18.10.2007)
- Prof. Dr. Philip Coppens*, Department of Chemistry, State University of New York at Buffalo, Buffalo, NY, USA
Chemical Bonding by X-ray Diffraction (19.10.2007)
- Shivaji Dasgupta*, Walter Schottky Institut Garching
Thermally activated persistent photoconductivity and donor binding, energies in AlAs quantum wells (25.10.2007)
- Prof. Dr. Klaus Reimann*, Max-Born Institut für Nichtlineare Optik und Kurzzeitspektroskopie, Berlin
Non-linear Spectroscopy on n-type GaAs (29.10.2007)
- Dr. Uwe Mühle*, Physical Failure Analysis, Department (YD PE PFA TMA), Qimonda Dresden GmbH & Co. OHG
TEM-applications in semiconductors industry (02.11.2007)

Prof. Dr. José C. Gómez Sal, Universidad di Cantabria, Facultad de Ciencias, Dep. Física de la Materia condensada, Santander, Spain
Intrinsic magnetic inhomogeneities and percolative processes in strongly correlated metallic systems (08.11.2007)

Prof. Dr. Claude Pasquier, Laboratoire de Physique des Solides, Université Paris-Sud, Orsay, France
Microscopic and mesoscopic phase coexistence in molecular conductors (15.11.2007)

Prof. Dr. Martin Greven, Department of Applied Physics and Stanford Synchrotron Radiation Laboratory, Stanford University, Stanford, CA, USA
Crystal Growth, Neutron Scattering, and Spin Correlations: A Tale of two Complex Oxides (22.11.2007)

Dr. Dirk Sander, Max-Planck-Institut für Mikrostrukturphysik, Halle
Electron confinement and magnetic properties of Co nanoislands studied by LT-STM (29.11.2007)

Dr. Marc Scheffler, Delft University of Technology, The Netherlands
Optics on Correlated Electrons: Perspectives at Low Energies (06.12.2007)

Jun.-Prof. Dr. Stefan Sillow, Institut für Physik der Kondensierten Materie, Technische Universität Braunschweig
Magnetic exchange in molecule based magnets and oxide materials (PR, 07.12.2007)

2008

Prof. Dr. Peter Paufler, Institut für Strukturphysik, Fakultät für Mathematik und Naturwissenschaften, Technische Universität Dresden
Laves Phases: The spirit of Dresden (10.01.08, im Rahmen de Veranstaltung „Laves Phases X“)

Prof. Dr. Thorsten Glaser, Fakultät für Chemie, Universität Bielefeld
Gezielte Synthese von Einzelmolekülmagneten (15.01.2008)

Prof. Dr. Bernhard Keimer, Max-Planck-Institut für Festkörperforschung, Stuttgart
New perspectives on the electron-phonon interaction in superconductors (05.02.2008)

Dr. Ryosuke Shiina, Tokyo Metropolitan University, Japan
Spontaneous octupolar ordering and unconventional neutron scattering spectra in f electron systems (21.02.2008)

Niko Johansson, II Physikalisches Institut, Universität zu Köln
Nernst effect of Ni-doped $\text{NdBa}_2\text{Cu}_3\text{O}_{(7-d)}$ (14.02.2008)

Dr. Roland Schedler, Hahn-Meitner-Institut Berlin
Investigations to the Crystal Electric Field – Phonon Coupling in CeCu_2 (06.03.2008)

Prof. Dr. Gertrud Zwirgagl, Institut für Mathematische Physik, Technische Universität Braunschweig
Hall coefficients in YbRh_2Si_2 and YbIr_2Si_2 : An Electronic Structure Study (06.03.2008)

Dr. Cyrus F. Hirjibehedin, London Centre for Nanotechnology, UK
Magnetic Nanostructures Probed at the Atomic Scale (27.03.2008)

Prof. Dr. Sergei Stishov, Institute for High Pressure Physics, Russian Academy of Sciences, Troitsk, Russian Federation
On the phase transition in the itinerant helimagnet MnSi at ambient and high hydrostatic pressures (03.04.2008)

Prof. Dr. Marina Petrukhina, Department of Chemistry, University at Albany, State University of New York, USA

Fullerene Fragments: Synthesis, Molecular Geometry, Solid State Packing and Reactivity (27.04.2008)

Prof. Dr. Christian Jäger, Bundesanstalt für Materialforschung- und Prüfung, Berlin
Mission Impossible? Surfaces of phosphate nanoparticles and the mineral-organic interface in biomaterials (09.05.2008)

Dr. Peng Tong, Department of Physics, Pusan National University, Busan, Republic of Korea
Research on the Intermetallic Antiperovskite Compounds related to the novel superconductor MgCNi_3 (15.05.2008)

Dr. Markos Skoulatos, Hahn-Meitner-Institut, Berlin
Spin correlations in frustrated magnets (26.05.2008)

Prof. Stephan von Molnár, PhD, Florida State University, Tallahassee, FL, USA
An overview of europium chalcogenide concentrated magnetic semiconductors (12.06.2008)

Prof. Dr. Roderich Moessner, Max-Planck-Institut für Physik komplexer Systeme
Dresden Order and disorder in magnetic materials (GK, 13.06.2008)

Dr. Yoshifumi Tokiwa, Los Alamos National Laboratory, Los Alamos, New Mexiko, USA
Divergence of magnetic Gruneisen ratio at Quantum Critical Point and impurity effect on FFLO state in CeCoIn_5 (19.06.2008)

Prof. Dr. Ana-Celia Mota, Laboratorium für Festkörperphysik, ETH Zürich, Schweiz
Exotic properties of noncentrosymmetric superconductors (25.06.2008)

Prof. Dr. Yoshinori Haga, Advanced Science Research Center, Japan Atomic Energy Agency, Tokai, Ibaraki, Japan
Magnetism and superconductivity in new actinide intermetallic compounds (14.07.08)

Prof. Dr. Howard D. Flack, Universite de Geneva, Geneve, Switzerland
Using and understanding the Flack Parameter (11.08.2008)

Dr. Ramzy Daou, Université de Sherbrooke, Quebec, Canada
Electronic transport and the Fermi surface of high-T_c superconductors (28.08.2008)

Dr. Prattap Raychaudhuri, Department of Condensed Matter Physics and Materials Science, Tata Institute of Fundamental Research Mumbai, India
Experimental studies on Granular and Disordered superconductors (28.08.2008)

Prof. Dr. Jamshed Anwar, University of Bradford, UK
Control of crystal nucleation insights from molecular simulation (17.10.08)

Prof. Dr. Julian Sereni, Low Temperature Laboratory, Centro Atomico Bariloche, San Carlos de Bariloche, Argentina
Exotic phase and critical point in Ce₂Pd₂Sn (23.10.2008)

Dr. Thomas Weber, ETH Zürich, Laboratorium für Kristallographie, Schweiz
Structure determination of quasicrystals made easy (07.11.08)

Nandang Mufti, Laboratory of Solid State Chemistry, Zernike Institute for Advanced Materials, University of Groningen, The Netherlands
Relaxor behavior in multiferroic Tb_{1-x}Ca_xMnO₃ (20.11.2008)

Prof. Dr. Mathias Wickleder, Institut für Reine und Angewandte Chemie, Universität Oldenburg
Metallverbindungen mit komplexen Oxoanionen: Von faszinierender Chemie zu neuen Funktionsmaterialien (25.11.2008)

Prof. Dr. Dariusz Kaczorowski, Institute of Low Temperature and Structure Research, Polish Academy of Sciences, Wrocław, Poland
On the search for quantum criticality in a ferromagnetic system UNi_{1-x}Co_xSi₂ (27.11.2008)

Ph. D. Quentin M. Ramasse, National Centre for Electron Microscopy, Lawrence Berkeley National Laboratory, Berkeley, USA
High Resolution Quantitative Scanning Transmission Electron Microscopy of Silicon Clathrates on the TEAM 0.5 Instrument (18.12.2008)

Gäste (Forschungsaufenthalte) Visiting Scientists

Dr. Lev Akselrud, Chemical Faculty, Ivan Franko Lviv State University, Ukraine

Dr. Anastasia Alekseeva, Department of Chemistry, Moscow State University, Russian Federation

Dr. Marc Armbrüster, Chemistry Department, University of Cambridge, United Kingdom

Matt Beekman, Physics Department, University of South Florida, Tampa, Florida, USA

Prof. Dr. Frederic Bernard, Institut CARNOT de Bourgogne, Université de Bourgogne, France

Prof. Dr. Michael Binnewies, Institut für Anorganische Chemie, Leibniz Universität Hannover

Prof. Dr. Jürgen Brickmann, Physikalische Chemie, Technische Universität Darmstadt

Prof. Dr. Welf Bronger, Institut für Anorganische Chemie, Rheinisch-Westfälische Technische Hochschule Aachen

Prof. Dr. Silke Bühler-Paschen, Institut für Festkörperphysik, Technische Universität Wien, Österreich

Dr. Tomasz Cichorek, Trzebiatowski Institute of Low Temperature and Structure Research, Polish Academy of Sciences, Wrocław, Poland

Prof. Piers Coleman, PhD, Center for Materials Theory, Rutgers University, Piscataway, NJ, USA

Eglantine Courtois, Laboratoire de Recherche sur la Réactivité des Solides, Université de Bourgogne, France

Dr. Pintu Das, Fachrichtung Experimentalphysik, Universität des Saarlandes, Saarbrücken

Dr. Anatoli Fedorchuk, Chemical Faculty, Ivan Franko Lviv State University, Ukraine

Prof. Zachary Fisk, PhD, Department of Physics & Astronomy, University of California, Irvine, USA

Prof. Dr. Howard D. Flack, Department of Cristallographie, Université de Geneve, Switzerland

Dr. Daniel Fredrickson, Department of Physical, Inorganic and Structural Chemistry, University of Stockholm, Sweden

Prof. Dr. Philipp Gegenwart, Fakultät für Physik, I. Physikalisches Institut, Georg-August-Universität Göttingen

Prof. Dr. Andrey Gippius, Physics Department, Moscow State University, Russian Federation

Prof. Dr. Robert Glaum, Institut für Anorganische Chemie, Rheinische Friedrich-Wilhelm-Universität, Bonn

Dr. Jerzy Goraus, Institute of Physics, University of Silesia, Katowice, Poland

- Dr. Daniel Grüner*, Department of Physical, Inorganic and Structural Chemistry, University of Stockholm, Sweden
- Prof. Dr. Arnold Guloy*, Department of Chemistry, University of Houston, Texas, USA
- Prof. Dr. Vladimir Gurin*, A.F. Ioffe Physical-Technical Institute, Russian Academy of Sciences St. Petersburg, Russian Federation
- Prof. Dr. Kurt Hiebl*, Institut für Physikalische Chemie, Universität Wien, Austria
- Prof. Dr. Zakir Hossain*, Department of Physics, I.I.T Kanpur, India
- Dr. Ya-Xi Huang*, Department of Materials Science and Engineering, Xiamen University, China
- Dr. Peter Jeglič*, "Jožef Stefan" Institute, University of Ljubljana, Slovenia
- Prof. Dr. Wolfgang Jeitschko*, Institut für Anorganische und Analytische Chemie, Universität Münster
- Dr. Michelle Johannes*, Center for Computational Materials Science, Naval Research Laboratory, Washington DC, USA
- Simon Johnsen*, Department of Chemistry, Aarhus University, Denmark
- Prof. Dr. Walter Jung*, Institut für Anorganische Chemie der Universität Köln
- Prof. Dr. Dariusz Kaczorowski*, Trzebiatowski Institute of Low Temperature and Structure Research, Wrocław, Poland
- Dr. Koji Kaneko*, Advanced Science Research Center, Japan Atomic Energy Agency, Japan
- Dr. Shin-ichi Kimura*, Institute for Molecular Science, Okazaki National Research Institutes, Japan (LS gefunden aus den Vorträgen)
- Dr. Nagesh S. Kini*, Department of Applied Chemistry, Hiroshima University, Japan
- Prof. Dr. Boris Kochelaev*, Theoretical Physics Department, Kazan State University, Russian Federation
- Dr. Michael M. Koza*, Institut Laue-Langevin, Grenoble, France
- Sophie Le Gallet*, Laboratoire de Recherche sur la Réactivité des Solides, Université de Bourgogne, Dijon, France
- Dr. Claire Loison*, Fakultät für Physik, Universität Bielefeld
- Prof. Dr. Klaus Lüders*, Fachbereich Physik, Freie Universität Berlin
- Prof. Dr. Bruno Lüthi*, Physikalisches Institut, Universität Frankfurt/Main
- Prof. Douglas MacLaughlin*, PhD, Department of Physics and Astronomy, University of California, Riverside, USA
- Dr. Dieter Maurer*, Fachbereich Physik, Freie Universität Berlin
- Dr. Francesco Mercuri*, Istituto CNR di Scienze e Technologie Molecolari, Università di Perugia, Italia
- Dr. Marek Mihalkovic*, Academy of Science, Bratislava, Slovakia
- Wojciech Müller*, Trzebiatowski Institute of Low Temperature and Structure Research, Polish Academy of Sciences, Wrocław, Poland
- Prof. Dr. Gordon Miller*, Department of Chemistry, Ames Laboratory, Iowa State University, USA
- Ludivine Minier*, Laboratoire de Recherche sur la Réactivité des Solides, Université de Bourgogne, France
- Dr. Takao Mori*, National Institute for Materials Science, Tsukuba, Japan
- Dr. Elena Morozowa*, Department of Physics, Moscow State University, Russian Federation
- Prof. Dr. Ana-Celia Mota*, Laboratorium für Festkörperphysik, ETH Zürich, Switzerland
- Prof. Dr. John A. Mydosh*, Mathematisch-Naturwissenschaftliche Fakultät, Fachgruppe Physik, Universität zu Köln
- Dr. Sunil Nair*, Department of Condensed Matter Physics and Material Science, Tata Institute of Fundamental Research, Mumbai, India
- Dr. Vicente Pacheco*, Instituto de Fisica „Luis Rivera Terrazas“, Universidad Autónoma de Puebla, Mexico
- Dr. David Parker*, Department of Physics and Astronomy, University of Southern California, Los Angeles, USA
- Marek Pasciak*, Trzebiatowski Institute of Low Temperature and Structure Research, Wrocław, Poland
- Prof. Dr. Vitalij K. Pecharsky*, Department of Materials Science and Engineering, Ames Laboratory, Iowa State University, Ames, USA
- Dr. Catherine Pepin*, Institut de Physique Théorique, CEA - Saclay, Gif-sur-Yvette, France
- Prof. Dr. Marina Petrukhina*, Department of Chemistry, University at Albany, State University of New York, USA
- Prof. Dr. Giuseppe Pezzotti*, Ceramic Physics Laboratory, Department of Chemistry and Materials Engineering, Kyoto Institute of Technology, Japan
- Dr. Adam Pikul*, Trzebiatowski Institute of Low Temperature and Structure Research, Wrocław, Poland
- Dr. Alan Porporati*, Ceramic Physics Laboratory, Department of Chemistry and Materials Engineering, Kyoto Institute of Technology, Japan
- Dr. Arpana Prasad*, Department of Physics, Indian Institute of Technology, Kanpur, India
- Dr. A. K. Rajarajan*, Bhaba Atomic Research Centre, Mumbai, India

Prof. Dr. Srinivasan Ramakrishnan, Tata Institute of Fundamental Research, Mumbai, India

Dr. Pratap Raychaudhuri, Department of Condensed Matter Physics and Materials Science, Tata Institute of Fundamental Research, Mumbai, India

Prof. Dr. Klaus Richter, Institut für Anorganische Chemie, Universität Wien, Austria

John H. Roudebush, Department of Chemistry, University of California, Davis, USA

Nicolas Roussel, Institut CARNOT de Bourgogne, Université de Bourgogne, France

Dr. C. Peter Sebastian, Institut für Anorganische Chemie, Universität Münster

Prof. Dr. Julian Sereni, Low Temperature Laboratory, Centro Atómico de Bariloche, San Carlos de Bariloche, Argentina

Dr. Nicholas Shannon, Department of Physics, University of Bristol, United Kingdom,

Prof. Dr. Andrei V. Shevelkov, Inorganic Synthesis Laboratory, Department of Chemistry, Moscow State University, Russian Federation

Dr. Ryousuke Shiina, Department of Physics, Tokyo Metropolitan University, Japan

Dr. Roman Shpanchenko, Inorganic Chemistry Division, Moscow State University, Russian Federation

Prof. Qimiao Si, PhD, Department of Physics & Astronomy, Rice University, Houston, Texas, USA

Dr. Olga Sichevych, National Forest Academy, Lviv, Ukraine

Prof. Dr. Andrzej Ślebarski, Institute of Physics, University of Silesia, Katowice, Poland

Prof. Dr. Mehmet Somer, Department of Chemistry, Koc University, Istanbul, Turkey

Prof. Dr. Walter Steiner, Institut für Festkörperphysik, Technische Universität Wien, Austria

Prof. Dr. Sergei M. Stishov, Institute for High Pressure Physics, Russian Academy of Sciences, Troitsk, Russian Federation

Prof. Dr. André Strydom, Physics Department, University of Johannesburg, South Africa

Maria Szlawska, Trzebiatowski Institute of Low Temperature and Structure Research, Wrocław, Poland

Joshua H. Tapp, Department of Chemistry, University of Houston, Texas, USA

Lorenzo Tepech Carillo, Instituto de Física „Luis Rivera Terrazas“, Universidad Autónoma de Puebla, Mexico

Dr. Yoshifumi Tokiwa, Graduate School of Science, Osaka University, Japan

Dr. Vinh-Hung Tran, Trzebiatowski Institute of Low Temperature and Structure Research, Wrocław, Poland

Dr. Leonid Vasylechko, Semiconducting Electronics Department, State University “Lviv Politechnic”, Lviv, Ukraine

Prof. Stephan von Molnar, PhD, Department of Physics at Florida State University, University of California, Riverside, USA

Prof. Russell E. Walstedt, PhD, Department of Physics and Astronomy, Rutgers University, Piscataway, NJ, USA

Dr. Richard Wehrich, Institut für anorganische Chemie, Universität Regensburg

Dr. Franz Weitzer, Institut für Physikalische Chemie, Universität Wien, Austria

Jakob Wilfert, Max-Planck-Institut für Festkörperforschung, Stuttgart

Dr. Miao Yang, State Key Laboratory of Inorganic Synthesis and Preparative Chemistry, Jilin University, Changchun, China

Tae-Soo You, Department of Chemistry, Iowa State University, Ames, Iowa, USA

Dr. Huiqiu Yuan, National High Magnetic Field Laboratory, University of Florida, Los Alamos, NM, USA

Prof. Dr. Jing-Tai Zhao, Shanghai Institute of Ceramics, Chinese Academy of Sciences, China

Prof. Dr. Gertrud Zwicknagl, Institut für Mathematische Physik, Technische Universität Carolo-Wilhelmina Braunschweig

Eingeladene Vorträge Invited Talks

Juri Grin

Spark-Plasma-Sintering: Sintering only or more?

Fraunhofer Institut für Fertigungstechnik und Angewandte Materialforschung, Dresden (März 2006)

Chemical Bonding in the Intergrowth Structures of Intermetallic Compounds

DIS'06, Osaka, Japan (March 2006)

Chemical Bonding and Crystallographic Features (1)

Chemical Bonding and Crystallographic Features (2)

CMA European School in Materials Science, Ljubljana, Slovenia (May 2006)

Spark Plasma Sintern: Sintern oder mehr?

Max-Planck-Institut für Metallforschung, Stuttgart (Juni 2006)

Bonding detection functions for intermetallic compounds

IV National Crystal Chemical Conference of Russian Academy of Science, Chernogolovka, Russian Federation (June 2006)

Chemical Bonding and Crystal Structures of Intermetallic Compounds

15th International Conference on Solid Compounds of Transition Elements, Krakow, Poland (July 2006)

Local Ordering Phenomena in Intermetallic Compounds

Gordon Research Conference, New London, NH, USA (July 2006)

Chemical bonding in cage compounds

25th International Conference on Thermoelectrics, Wien, Austria (August 2006)

Intermetallic Compounds: New Developments in Electron Counting

XXII Congresso Nazionale della Società Chimica Italiana, Firenze, Italia (September 2006)

SPS: More than a sintering?

Matériaux 2006, Dijon, France (November 2006)

Zur chemischen Bindung in intermetallischen Verbindungen

Institut für Anorganische Chemie der Eberhard Karls Universität Tübingen (Januar 2007)

ELF applications for inorganic compounds

Tagung der Deutschen Gesellschaft für Kristallographie, RWTH Aachen (Februar 2007)

Chemical Bonding in Intermetallic Compounds and Saxonian Switzerland

Gedenkkolloquium für Prof. Dr. Dr. h. c. Erwin Parthé, Universität Wien, Österreich (April 2007)

Intermetallische Verbindungen: Komplexität der Kristallstrukturen und chemische Bindung

Universität Siegen (April 2007)

Intermetallische Verbindungen: Strukturchemie und chemische Bindung

Universität St. Petersburg, Russland (Mai 2007)

Cage compounds—from basics to applications

Kyoto Institute of Technology, Japan (May 2007)

Chemistry and physics of clathrates and skutterudites

GDR Thermoelectrique Caen, France (June 2007)

Discussion leader of the session “Advances in Theory of Solids” of the Gordon Research Conference “Solid State Chemistry II”, Magdalen College Oxford, UK (September 2007)

o-Co₄Al₁₃, a Low-Scale Prototype of Complex Metallic Alloys

EUROMAT 2007, Nürnberg (September 2007)

Chemical Physics of Intermetallic Compounds

Seoul, South Korea (October 2007)

Progress in Solid State Chemistry

Lesya Ukrainka Volyn State University, Lutsk, Ukraine (October 2007)

Spark-Plasma Synthesis in Inert Gas Atmosphere

PacRim 7, Shanghai, China (November 2007)

Redox reactions on intermetallic compounds

UCSB-MPG Workshop on Inorganic Materials for Energy Conversion, Storage and Conservation, Lake Arrowhead, USA (February 2008)

Chemistry and Physics of Intermetallic Clathrates and Skutterudite-like Compounds

Texas Center for Superconductivity at the University of Houston, USA (March 2008)

New preparation routes for intermetallic clathrates

General Motors R&D Center, Warren, USA (March 2008)

Chemistry and Physics of Intermetallic Clathrates and Skutterudite-like Compounds

University of South Florida, Tampa, USA (March 2008)

Cage Compounds of the Rare-Earth Metals:

Interplay of Chemistry and Physics

TMS 2008, New Orleans, USA (March 2008)

Redox-Reaktionen an intermetallischen Verbindungen

Kurt-Hiebl-Kolloquium, Universität Wien, Österreich (April 2008)

Redox reactions and intermetallic compounds

University of Lviv, Ukraine (April 2008)

Redox processes and intermetallic compounds

Max-Planck-Institut für Festkörperforschung Stuttgart (Juni 2008)

Chemistry and Physics of intermetallic skutterudites: spin polarization aspect

4th MAINZ/MATCOR summer school, Rathen (August 2008)

Laves Phases and related compounds in the cobalt-rich part of the Nb-Co system: revisited

12th Symposium on Thermochemistry & Thermophysics of Nuclear Materials, Pörschach, Austria (September 2008)

Heteroatomic boron—containing 3D networks revisited
ISBB 2008, Matsue, Japan (September 2008)

Clathrate Thermoelectrics
National Institute for Materials Science, Tsukuba, Japan
(September 2008)

Intermetallic Compounds of Rare Earth Metals: Layers vs Cages
REMAT 2008, Łądek Zdrój, Trzebieiszowice, Poland
(September 2008)

Frontiers in Complex Metallics Alloys
Workshop of the European NoE CMA, Zagreb, Croatia
(October 2008)

Käfigverbindungen: Chemie und Physik
Veranstaltungszyklus der GDCh, Universität
Regensburg (November 2008)

Intermetallic compounds and redox reactions
Fritz-Haber-Institut der Max-Planck-Gesellschaft Berlin
(November 2008)

Understanding of intermetallic compounds: layers vs cages
Chemisch-Physikalische Gesellschaft Wien, Österreich,
(November 2008)

Chemical Bonding in Laves Phases Revisited
MRS Fall Meeting Boston, USA (December 2008)

Intermetallic Compounds and Redox Reactions
University at Buffalo, The State University of New
York, Buffalo, USA (December 2008)

Rüdiger Kniep

Borophosphates
Ludwig-Maximilians-Universität München
(9. Februar 2006)

Apatit-Gelatine-Nanokomposite: Zu den Wurzeln der Biomineralisation
Universität Wien, Institut für Anorganische Chemie und
Materialchemie (3. März 2006)

Apatit-Gelatine-Nanokomposite: Zu den Wurzeln der Biomineralisation
Universität Linz, Institut für Allgemeine und
Anorganische Chemie (7. März 2006)

Borophosphates: A Story with its Origin in Meral Kizilyalli's Lab
Workshop "Recent Developments in Solid State
Sciences", Middle East Technical University Ankara,
Turkey (June 2-3, 2006)

Formation of patterns via processes of self-organisation: Morphogenesis and real structure of apatite-gelatine-nanocomposites
Moscow-State-University, Russian Federation (June 23,
2006)

Crystal Chemistry of nitrido- and carbometalates
IV National Crystal Chemical Conference,
Chernogolovka, Russian Federation (June 26, 2006)

Principles of Biomineralisation: Morphogenesis of Apatite-Gelatine-Nanocomposites
University St. Petersburg, Russian Federation
(July 26, 2006)

Origin and role of gelatine-fibril hierarchies inside 3D-organised fluorapatite-gelatine-nanocomposites
Ringberg-Symposium, Max-Planck-Gesellschaft für
Metallforschung, Tegernsee (11.-12. Oktober 2006)

Der Zahn im Blickpunkt – Nanokomposite aus Apatit und Gelatine
Fortbildungsveranstaltung Landeszahnärztekammer
Sachsen, Chemnitz (14. Oktober 2006)

Apatit-Gelatine-Nanokomposite: Morphogenese, Realstruktur und Anwendungsmöglichkeiten
30. Clemens-Winkler-Kolloquium, Fakultät für Chemie
und Physik der TU Bergakademie Freiberg
(26. Oktober 2006)

Apatit-Gelatine-Nanokomposite: Hierarchische Musterbildung unter biomimetischen Bedingungen
GDCh-Vortrag, TU München (23. Januar 2007)

Apatit-Gelatine-Nanokomposite: Wie eine Darmstädter Idee zum Produkt wurde
Eduard-Zintl-Kolloquium, TU Darmstadt (26. Januar
2007)

Morphogenese und Struktur von Bio-Funktionsmaterialien: Apatit-Gelatine- und Calcit-Gelatine-Nanokomposite
GDCh-Vortrag, Universität Stuttgart (8. Februar 2007)

Morphogenese und Struktur von Bio-Funktionsmaterialien: Apatit-Gelatine- und Calcit-Gelatine-Nanokomposite
CRTD-Vortrag, MTZ, Dresden (7. Mai 2007)

Apatite-gelatine and calcite-gelatine nanocomposites – Development of bio-related hierarchical patterns
University of Stockholm, Sweden (May 11, 2007)

Apatite-gelatine- and calcite-gelatine-nanocomposites: development of bio-related hierarchical structures
MC8: Advancing Materials by Chemical Design,
London, UK (July 2-5, 2007)

Apatit- und Calcit-Gelatine-Nanokomposite: Anorganische Festkörper in lebenden Systemen
Egon-Wiberg-Vorlesung, LMU München (12. Juli 2007)

Biomineralization
State Key Lab, Shanghai Institute of Ceramics, CAS,
China (August 8, 2007)

New developments in nitridometalates and metal-rich nitrides containing alkaline earth elements as the electropositive components
Solid State Chemistry II Gordon Research Conference,
Oxford, UK (September 2-7, 2007)

Morphogenese und Struktur von Bio-Funktionsmaterialien: Apatit-Gelatine- und Calcit-Gelatine-Nanokomposite
GDCh-Wissenschaftsforum Chemie 2007, Universität
Ulm (16.-19. September 2007)

Hierarchical Structures in Biomimetic Nanocomposites based on Apatite (or Calcite) and Gelatine
IUMRS-ICAM 2007, Bangalore, India
(October 8-13, 2007)

Festkörperchemie hart und weich
GDCh-Vortrag, Universität Gießen (6. November 2007)

Apatit und Calcit als nanokristalline Bio-Komposite: Nachahmung von Zähnen und Ohrsteinen im Laboratorium

Plenar-/Abendvortrag. 16. Jahrestagung der Deutschen Gesellschaft für Kristallographie, Erlangen (3.-6. März 2008)

Apatit-Gelatine- und Calcit-Gelatine-Nanokomposite: Von biomimetischen „Zähnen“ und Gehörsteinen
Physikalisches Kolloquium, Friedrich-Schiller-Universität Jena (30. Juni 2008)

Apatit-Gelatine- und Calcit-Gelatine-Nanokomposite: Zur Selbstorganisation von Bio-analogen Strukturen
Festvortrag zum Tag der Fakultät, TU München (18. Juli 2008)

Complex Hierarchical Shape Development of a Fluorapatite-Gelatine Nanocomposite Superstructure
Internationales Gelatine Symposium, Freiberg (11.-12. September 2008)

Biomimetic Morphogenesis and Structure of Calcite Otoconia: An Approach towards Deeper Understanding of a Bio-Sensor and its Function
Ringberg Symposium on "Biological Approaches in Materials Sciences" (1.-4. Oktober 2008)

Principles of Biomineralisation/Biomimetic Mineralisation: Complex Shape Development of Apatite-Gelatine- and Calcite-Gelatine-Nanocomposite Superstructures
„Wednesday-Seminars“, Fritz-Haber-Institut, Berlin (22. Oktober 2008)

Borophosphates: History and Trends
State Key Lab, Shanghai Institute of Ceramics, CAS, China (November 20, 2008)

Frank Steglich

Interplay between Superconductivity and (Incipient) AF Order in Heavy Fermions
2nd Topical Workshop of SCENET-2 and 11th CHEM-HTSC Workshop, Illetas Calvia, Spain (2006)

Interplay between Incipient Magnetism and Superconductivity in Heavy Fermions
DPG - Spring Meeting of the Division Condensed Matter and 21st General Conference of the Condensed Matter Division, EPS, Dresden (2006)

Non-Phonon-Mediated Superconductivity in Heavy-Electron Metals
International Conference on Quantum Complexity in Condensed Matter (QCCM), Cambridge, UK (2006)

Superconductivity and Magnetism: From Antagonism to Mutual Interplay

International Conference on Materials and Mechanisms of Superconductivity and High Temperature Superconductors (M²S-HTSC VII), Dresden (2006)

Superconductivity and Magnetism in Strongly Correlated f-Electron Metals
15th International Conference on Solid Compounds of Transition Elements, Krakow, Poland (2006)

Superconductivity in Quantum Critical Heavy-Fermion Metals
9th Japanese-German Symposium on Collective Quantum Phenomena in Strongly Correlated Electron Systems: Electronic Instabilities, Dimensional Effects, and Novel Phases, Hikone, Japan (2006)

Experimental Evidence for Different Types of Unconventional Superconductivity in Heavy Fermions
XXX International Conference of Theoretical Physics: Electron Correlations in Nano- and Macroystems, Ustroń, Poland (2006)

Different Types of Unconventional Cooper Pairing in Heavy-Fermion Superconductors
10th Anniversary Workshop of APCTP "Strongly Correlated Electron Systems", Pohang, South Korea (2006)

Interplay between Superconductivity and Quantum Criticality in Heavy Fermions
10th Anniversary Workshop of APCTP "Strongly Correlated Electron Systems", Pohang, South Korea (2006)

Experimental Evidence for Different Types of Unconventional Superconductivity in Heavy Fermions
Condensed-matter seminar, HKUST Hongkong, P. R. China (2006)

Experimental Evidence for Different Types of Unconventional Superconductivity in Heavy Fermions
Colloquium, University of Tokyo, Japan (2006)

Experimental Evidence for Different Types of Unconventional Superconductivity in Heavy Fermions
The 93rd Lecture in the Zhong-Guan-Cun Forum on Condensed Matter Physics, Institute of Physics, Chinese Academy of Sciences, Beijing, P. R. China (2006)

Schwere Elektronen: Supraleitung in der Nähe von Quantenphasenübergängen
Kolloquiumsvortrag, TU Münster (2007)

Unconventional BCS States in Heavy Fermion Superconductors
Symposium "50 Years BCS Theory", DPG - Spring Meeting of the Division Condensed Matter, Regensburg (2007)

Unconventional Superconductivity in the Quantum Critical Heavy Fermion Metal CeCu₂Si₂
Symposium "Highly Correlated Electron Systems, Magnetism and Superconductivity" in honor of Prof. Hans Rudolf Ott, Zürich, Switzerland (2007)

New Materials—New Phenomena: Superconductivity of "Heavy Electrons" ("Heavy Fermions")
Outreach Taping "50th Anniversary of BCS Theory" at SCES'07, Houston, USA (2007)

Unconventional BCS States in Heavy Fermions Metals
Int. Conf. on Strongly Correlated Electron Systems
SCES'07, Symposium "BCS@50", Houston, USA
(2007)

On Unconventional Superconductivity in Heavy Fermions
Int. Workshop "Nanostructured Advanced Materials",
Dresden (2007)

Schwere Elektronen: Supraleitung in der Nähe von Quanten-Phasenübergängen
Kolloquiumsvortrag, Universität Braunschweig (2007)

Superconductivity in Heavy Electrons
Int. Workshop "Coherence and incoherence in strongly correlated systems", Rome, Italy (2007)

Superconductivity and Heavy Fermion Quantum Critical Points
13th Czech and Slovak Conference on Magnetism,
CSMAG'07, Kosice, Slovakia (2007)

Superconductivity of Heavy Electrons: New Insight into the Enigma
Workshop on Novel Aspects of Superconductivity,
Aspen, USA (2007)

Conventional or not Conventional? Quantum Critical Points in Heavy Fermions
ICAM Frontier Symposium "The superfluid universe",
Aspen, USA (2007)

On the Interplay between Quantum Criticality and Superconductivity of Heavy Electrons
Int. Workshop "New frontiers in quantum impurity physics: From nano-structures to molecular devices",
Dresden (2007)

Experimental Evidence for Different Types of Unconventional Superconductivity in Heavy Fermions
Gordon Research Conference on Solid State Chemistry for Advanced Materials, Oxford, UK (2007)

Unconventional Superconductivity of Heavy Electrons
International Workshop on Applied Physics on Strong Correlation, Tokyo, Japan (2007)

Heavy-Fermion Superconductivity: New Insight into the Enigma
Inauguration ceremony of the academic year 2007/2008,
Institute of Low Temperature and Structure Research,
Polish Academy of Sciences, Wroclaw (2007)

On the Interplay between Quantum Criticality and Superconductivity in Heavy Fermions: CeCu₂Si₂ vs YbRh₂Si₂
"The Heavy Fermion Frontier" - Workshop in honor of Joe D. Thompson's 60th Birthday, Santa Fe, USA (2007)

Superconductivity in Heavy-Fermion Quantum Critical Points
Inauguration of "Distinguished Lectures in Quantum Magnetism" at Rice University, Houston, USA (2007)

Unconventional Superconducting States in Heavy-Electron Metals
6th International Symposium on "Exploring New Science by Bridging Particle-Matter Hierarchy",
Sendai, Japan (2007).

Superconductivity of Heavy-Fermion Electrons: The Quest for Coupling Mechanisms
Kolloquiumsvortrag, MPI für festkörperforschung,
Stuttgart (2008)

Supraleitung mit schweren Elektronen: alte Fragen, neue Antworten
Kolloquiumsvortrag, Technische Universität Darmstadt (2008)

Horst Borrmann

Weak interactions in the crystal structures of small molecules

Humboldt Conference on Noncovalent Interactions,
Vršac, Serbia (November 15, 2007)

What to expect from Neutron-Diffraction in Structural Chemistry and Materials Science?
Department of Chemistry, University of Belgrade
(November 19, 2007)

Single crystal X-ray diffraction: new tricks for an old dog
Department of Chemistry, Iowa State University, Ames,
Iowa (August 4, 2008)

Manuel Brando

Quantum phase transitions in NbFe₂
University of Vienna, Vienna, Austria (2006)

Quantum criticality in NbFe₂
Meeting "The Nature of Laves Phases", MPI-E,
Düsseldorf, Germany (2007)

Logarithmic Fermi-liquid breakdown in NbFe₂
DPG Frühjahrstagung, Regensburg, Germany (2007)

Magnetization study of stoichiometric and slightly Ir- and Co-doped YbRh₂Si₂
DPG Frühjahrstagung, Berlin, Germany (2008)

Quantum criticality in slightly Ir- and Co-doped YbRh₂Si₂
University of Cambridge, Cambridge, UK (2008)

Quantum criticality in slightly Ir- and Co-doped YbRh₂Si₂
European conference "Physics of Magnetism '08",
Poznan, Poland (2008)

Quantum criticality in slightly Ir- and Co-doped YbRh₂Si₂
Institute Laue-Langevin, Grenoble, France (2008)

Quantum criticality in slightly Ir- and Co-doped YbRh₂Si₂
University of Karlsruhe, Karlsruhe, Germany (2008)

Philipp Gegenwart

Experimental Tutorial on Quantum Criticality
Workshop on Quantum Criticality, Lorentz Center
Leiden (August 7-18, 2006)

Unconventional Quantum Criticality in YbRh₂Si₂
M2S-HTSC VIII Conference, Dresden (July 9-14, 2006)

Christoph Geibel

Frustrated $S = 1/2$ square lattice systems in complex Vanadium oxides

HFM Workshop “Competing Interactions – Materials aspects”, Stockholm, Sweden (June 2006)

YbRh₂Si₂, YbIr₂Si₂, and YbRu₂Ge₂: a challenge for the crystal grower, a fascinating playground for physics of strongly correlated systems

15th International Conference on Solid Compounds of Transition Elements, Kraków, Poland (July 2006)

From valence fluctuations to magnetic and quadrupolar order in Yb-based compounds

International Conference on Magnetism, Kyoto, Japan (August 2006)

A surprise in YbRu₂Ge₂: quasi quartet ground state and quadrupolar order

9th Japanese-German Symposium, Hikone Castle, Japan (August 2006)

CeTPO compounds: 2D Kondo lattices with ferromagnetic correlations

Workshop “Exotic States in Materials with Strongly Correlated Electrons”, Sinaia, Romania (September 2007)

Unconventional Kondo lattice systems: Eu-compounds and ferromagnetic Ce-systems

Cavendish Laboratory, University of Cambridge, Cambridge, UK (October 2007)

Unconventional Kondo lattice systems: Eu-compounds and ferromagnetic Ce-systems

Tata Institute for Fundamental research, Mumbai, India (November 2007)

Introduction to Heavy Fermion systems

Workshop “Correlated Electrons & Frustrated Magnetism”, Centre for Theoretical Sciences, Goa, India (November 2007)

Heavy Fermion systems: A challenge for the crystal grower and for our understanding of magnetism and superconductivity

Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore, India (December 2007)

Heavy Fermion systems: A challenge for the crystal grower and for our understanding of magnetism and superconductivity

Indian Institute of Technology, Kanpur, India (December 2007)

Magnetic frustration in intermetallic compounds

International Workshop on Materials for Frustrated Magnetism, ILL, Grenoble, France (March 2008)

Kondo lattices with ferromagnetic correlations:

YbRh₂Si₂, CeRuPO and CeFePO

HMI, Berlin, Germany (April 2008)

From antiferromagnetic to ferromagnetic quantum critical points: CeCu₂Si₂, YbRh₂Si₂ and CeFePO

National Institute for Materials Physics, Bucharest-Magurele, Romania (June 2008)

From CeCu₂Si₂ to SrFe₂As₂: fascinating physics due to competition or combination of different interactions

Workshop “Competing Orders, Pairing Fluctuations, and Spin Orbit Effects in Novel Unconventional Superconductor”, MPI-PKS, Germany (June 2008)

SrFe₂As₂: strong coupling between magnetic and structural order parameter

2008 General Workshop of the COST P16-ECOM Action, Santander, Spain (July 2008)

Ce-ferromagnetism and Kondo effect in CeTPnO (T = Ru, Fe, Pn = P, As)

16th International Conference on Solid Compounds of transition Elements, Dresden, Germany (July 2008)

Ce-ferromagnetism and Kondo effect in CeTPnO (T = Ru, Fe, Pn = P, As)

10th German-Japanese Symposium “Collective Quantum Phenomena in Correlated Condensed Matter Systems“, Schloß Ringberg, Germany (September 2008)

Flux growth of CeCu₂Si₂, YbRh₂Si₂ and of layered Fe-Pnictide systems

Journées Cristech 2008, Saint Pierre d’Oleron, France (October 2008)

Magnetism, structural distortion, and superconductivity in pure and doped AFe₂As₂ systems

International Workshop “Physics and Chemistry of FeAs-based superconductors” IFW Dresden, Germany (October 2008)

Magnetic and structural transition in AFe₂As₂ and RFeAsO systems

ICAM Workshop on Fe-Pnictide and related superconductors, University of Maryland, USA (November 2008)

Frank Haarmann

M₂Sn₄ mit M = Na, K, Rb, Cs NMR und ELF

Hemdsärmelkolloquium, Universität Kiel (März 2006)

Local ordering in Cu_{1-x}Al₂ studied by ^{63,65}Cu and ²⁷Al NMR spectroscopy

NMR-AK-Treffen Pottenstein, Universität Bayreuth (März 2006)

Local ordering in Cu_{1-x}Al₂ studied by ^{63,65}Cu and ²⁷Al NMR spectroscopy

14. Jahrestagung der Gesellschaft für Kristallographie, Universität Freiburg (März 2006)

Synthese und Charakterisierung von Galliden der Erdalkalimetalle: Homonukleare Gerüste und Molekül-Baugruppen

GDCh-Chemiedozententagung, Universität Hamburg (März 2006)

Kernspin-Resonanz-Spektroskopie (NMR) an intermetallischen Verbindungen

Seminar der Anorganischen Chemie, TU-Chemnitz (Mai 2006)

NMR-Spektroskopie an Galliden mit AlB_2 und $BaAl_4$ -Typ Struktur

Hirscheegg-Seminar, Kleinwalsertal Österreich, Universität Marburg (Juni 2006)

$Sr_{1-x}Ga_{2+3x}$ mit $0 \leq x \leq 0.076$ ($T = 950^\circ C$)

Hemdsärmelkolloquium, Universität Bonn (März 2007)

Structure - chemical aspects of strontium aluminides and gallides

15. Jahrestagung der Gesellschaft für Kristallographie, Universität Bremen (März 2007)

Wide-line NMR of intermetallic compounds dominated by large quadrupole coupling

NMR-AK-Treffen Berlin, Freie Universität Berlin (März 2007)

Drei-, vier- und fünfbindige Galliumatome in intermetallischen Verbindungen: elektronische Struktur und Kernspinresonanz-Spektroskopie

GDCh-Chemiedozententagung, Universität Halle (März 2007)

Lokale Ordnung in intermetallischen Phasen: NMR-Untersuchungen an $Ca_xSr_{1-x}Ga_4$ mit $0 \leq x \leq 1$

Hirscheegg-Seminar, Kleinwalsertal Österreich, Universität Marburg (Juni 2007)

Wide-line NMR of intermetallic compounds dominated by large quadrupole coupling

MaReMAS-Seminar, Universität Leipzig (Juli 2007)

NMR spectroscopy and crystal chemistry of intermetallic compounds

11th European Conference on Solid State Chemistry, Caen, France (September 2007)

NMR zur strukturellen Charakterisierung intermetallischer Verbindungen

14. Sitzung des Fachausschusses Intermetallische Phasen, MPI-CPfS Dresden (Januar 2008)

Solid state NMR as a local probe in intermetallic clathrates

16. Jahrestagung der Gesellschaft für Kristallographie, Universität Erlangen (März 2008)

$Cu_{1-x}Al_2$: Der andere Weg

Hemdsärmelkolloquium, Universität Mainz (März 2008)

Mischkristallbildung im System $CaGa_4 - SrGa_4$: Eine Untersuchung der lokalen Struktur mittels Kernspinresonanz-Spektroskopie

GDCh-Chemiedozententagung, Kaiserslautern (März 2008)

NMR-Spektroskopie an intermetallischen Phasen: Struktur und chemische Bindung

Anorganisches Seminar, Universität Bayreuth (Mai 2008)

NMR-Spektroskopie als lokale Sonde zur Untersuchung der chemischen Bindung in intermetallischen Phasen

Berufungsvortrag, RWTH Aachen (Mai 2008)

NMR of the alkali metal silicides. Réseau RMN structurale dans le Bassin Parisien

Université de Rennes, France (June 2008)

NMR as a local probe in intermetallic compounds

Séminaire de Chimie, Université de Rennes, France (June 2008)

Structure and Chemical Bonding of Alkaline-Earth Digallides

14. Vortragstagung der GDCh, Fachgruppe Festkörperchemie und Materialforschung, Universität Bayreuth (September 2008)

Oleg Janson

Search for new frustrated model compounds guided by DFT calculations

Universität Magdeburg, Fakultät für Naturwissenschaften, Institut für Theoretische Physik, (12. November 2008)

Miroslav Kohout

Electron localizability in real and momentum space
XVth Sagamore Conference on Charge, Spin und Momentum densities, Warwick, UK (2006)

Lokalisierbarkeit: wie sich Elektronen aus dem Weg gehen

Augsburger Physikalische Kolloquium, Universität Augsburg (2006)

Bonding indicators from electron pair density functionals

Faraday discussion 135: Chemical Concepts from Quantum Mechanics, Manchester, UK (2006)

ELF: Beyond Hartree-Fock

AK14 der Deutschen Gesellschaft für Kristallographie, Aachen (2007)

Metal-ligand bonds in coordination compounds

24th European Crystallographic Meeting, Marrakech, Morocco (2007)

Bonding in solids from the viewpoint of correlation of electronic motion

Goron Conference: Solid State Chemistry II, Oxford, UK (2007)

Guido Kreiner

Structure and Disorder of the Laves Phases in the Co-Nb System

MRS 2008 Fall Meeting, Boston, MA, USA (December 1-5, 2008)

Synthesis, Stability and Structure of Mg-based CMAs

Frontiers in Complex Metallic Alloys CMA-Zagreb'08, Zagreb, Croatia (October 1-4, 2008)

Nb-based Laves Phases—Stability, Structure and Disorder

16th International Conference on Solid Compounds of Transition Elements, Dresden, Germany (July 26-31, 2008)

Nb-based Laves Phases—Stability, Structure and Disorder
Department of Chemistry, Faculty of Science, Masaryk University, Brno, Czech Republic (February 28, 2008)

Complex Metallic Alloy Phases—From Simple to Complex Phases

DGM Fachausschusssitzung Intermetallische Phasen, Max-Planck-Institut für Chemische Physik fester Stoffe, Dresden (9. Januar 2008)

Complex Metallic Alloy Phases—From Simple to Complex Phases

Anorganisch Chemische Kolloquium, Institut für Analytische und Anorganische Chemie, Universität Freiburg, Freiburg (12. December 2007)

The Nature of Laves Phases – Eine institutsübergreifende Forschungsinitiative der Max-Planck-Gesellschaft

DGM Fachausschusssitzung Intermetallische Phasen, Max-Planck-Institut für Eisenforschung, Düsseldorf (10. Januar 2007)

Komplexe Metalllegierungsphasen

ZFM-Festkörpertag 2005/2006, Zentrum für Festkörperchemie und Neue Materialien, Universität Hannover, Hannover (27. Januar 2006)

Cornelius Krellner

Crossover from Ferro- to Antiferromagnetism in the layered Kondo systems CeTPO (T = Ru, Os)

Centro Atómico Bariloche, San Carlos di Bariloche, Argentina (February 2006)

Quantum criticality in YbRh₂Si₂

Solid State Physics Seminar, ETH Zurich, Switzerland (June 2007)

New Ce-based correlated materials at the border between intermetallics and oxides

15th International Conference on Crystal Growth, Salt Lake City, USA (August 2007)

Stefano Leoni

Phase Transitions in the Solid State

Università di Perugia, Theoretical Chemistry Group, Perugia, Italia (February 14, 2006)

Mechanisms and Intermediates along Pressure-Induced Phase Transitions

ETH Zurich, Campus of the University of Lugano, Parrinello group, Switzerland (March 6, 2006)

A Full-featured Platform for the Simulation of Phase Transitions, Mechanical Properties and Transport Phenomena in Real Materials

EPFL Lausanne, Switzerland (July 11, 2006)

Thinking with the Eyes

University of Manchester, UK (April 20, 2007)

Numerical Simulations and Visualization Approaches

National Computational Center (CSCS), Manno, Switzerland (March 3, 2007)

Advanced Techniques for Material Simulations

North Carolina State University, ERMES Unit, USA (March 15, 2006)

Approaches to Phase Transformations in the Solid State

National Academy of Sciences, Breslau, Poland

(May 18, 2007)

The Metal-Insulator Transition in MgTi₂O₄ Spinel

University of Wisconsin-Madison, USA (April 2008)

New Results in Phase Transition Simulations

ETH Zürich, Campus of the University of Lugano, Parrinello group, Switzerland (August 13, 2008)

Interface reactivity in Solids

TU Dresden, Cuniberti Gruppe, Nanoseminar (11. Dezember 2008)

Numerical Simulations on nanoionics

MPI FKF Stuttgart, Maier Gruppe (18. Dezember 2008)

Jens Müller

Magnetic Nanoparticles studied by Hall Magnetometry based on GaAs/AlGaAs Heterostructures

Walter-Schottky-Institut, TU München, Seminar Prof. G. Abstreiter (19. Dezember 2006)

Magnetism and Superconductivity in Molecular Metals

18th International Edgar-Lüscher-Seminar: „Actual Topics in Solid State Physics“ – Magnetism and Superconductivity, Klosters (February 03, 2007)

Noise Studies on Hall Magnetometers based on GaAs/AlGaAs Heterostructures

Institut für Festkörper- und Werkstoffforschung (IFW) Dresden, Abteilungsseminar Prof. B. Büchner (17. Oktober 2007)

Magnetic Nanoparticles studied by GaAs/AlGaAs-based Hall Magnetometry—Magnetic Interactions in Fe Nanoparticle/Permalloy Thin-Film Hybrid Systems

Forschungszentrum Dresden Rossendorf, Hochfeld-Magnetlabor, Seminar Prof. J. Wosnitza (23. November 2007)

Elektronische Korrelationen in molekularen Metallen

Seminar des SFB/TRR 49, Goethe-Universität Frankfurt am Main (7. Februar 2008)

Fluctuation Spectroscopy on quasi-two-dimensional Superconductors

Annual Retreat SFB/TRR 49, Schloss Waldthausen (26. September 2008)

Fluctuation Spectroscopy on quasi-two-dimensional Superconductors—releant energy scales for electronic scattering processes

10th German-Japanese Symposium “Collective Quantum Phenomena in Correlated Condensed Matter Systems“, Schloß Ringberg, Germany (September 30, 2008)

Michael Nicklas

Superconductivity and Magnetism in CeTIn₅ (T=Co, Rh or Ir)

Seminars talk at the University of Stuttgart, Germany (June 27, 2006)

Influence of antiferromagnetic fluctuations on the Fulde-Ferrell-Larkin-Ovchinnikov state in CeCoIn₅
ICM satellite workshop on Novel Pressure-induced Phenomena in Condensed Matter Systems, Fukuoka, Japan (August 26-29, 2006)

Interplay of Magnetism and Superconductivity in CeCoIn₅

ICAM Workshop on The Heavy Fermion Frontier, Santa Fe, USA (November 11-14, 2007)

Interplay of Magnetism and Superconductivity: Pressure Experiments on Heavy Fermion Superconductors

Seminars talk at the Université de Montréal, Canada, (November 21, 2007)

Possible realization of the Fulde-Ferrell-Larkin-Ovchinnikov superconducting state in CeCoIn₅: Results from pressure studies

Gordon Research Conference on Research at High Pressure, University of New England Biddeford, ME, USA (June 29 - July 4, 2008)

Magnetism and Superconductivity in CeCoIn₅

Conference on Strongly Correlated Electron Systems (SCES 2008), Buzios/Rio, Brazil (August 17-22, 2008)

Niels Oeschler

Quantum criticality in the heavy-fermion compounds CeNi₂Ge₂ and YbRh₂Si₂

Department of Physics, University of Johannesburg, South Africa (June 2006)

Thermoelectric properties in ferromagnetic Ce(PdRh)

Physikalisches Institut, Goethe-Universität Frankfurt (Oktober 2006)

Thermomagnetic properties of the strongly correlated semimetal CeNiSn

ARW Workshop, Hvar, Croatia (September 2008)

Helge Rosner

Itinerant iron magnetism and high spin polarization in filled skutterudites

University of Cologne, Colloquium of the SFB 608 (April 2006)

Ab-initio modelling of unusual physical properties - from simple elements to complex compounds

Seminar of the institute of solid state physics, TU Wien, Austria (November 2006)

Cu(II) materials—from crystal chemistry to magnetic models

22. Workshop on Novel materials and superconductivity, Planneralm, Austria (February 2007)

Cu(II) materials—from crystal chemistry to magnetic models

Seminar of the Institute for Crystallography, Sankt Petersburg State University, Russian Federation, May 2007.

Cu(II) materials: from crystal chemistry to magnetic models

Colloquium of the SFB 608, University of Cologne (May 2007)

Ab-initio modelling of unusual physical properties - from simple elements to complex compounds

Seminar of the institute of physics, University of Silesia Katowice, Poland (June 2007)

Cu(II) materials—from crystal chemistry to magnetic model compounds

Seminar 'Theory of condensed matter' of the institute of physics, University of Augsburg (July 2007)

Ab-initio modelling of unusual physical properties - from simple elements to complex compounds

Workshop on novel methods on electronic structure calculations, University of La Plata, Argentina (November 2007)

Cu(II) materials—from crystal chemistry to magnetic model compounds

Winterschool of the Leibnitz Institute for Solid State and Materials Research Dresden, Oberwiesenthal (January 2008)

Superconductivity, magnetism and electronic structure of SrFe₂As₂ and related compounds

International Workshop on Iron (Nickel)-Based Superconductors, Beijing, China (October 2008)

Superconductivity, magnetism and electronic structure of SrFe₂As₂ and related compounds

Seminar of the Institute of Electrochemistry, Moscow State University, Russian Federation (November 2008)

Elena Rosseeva

Synthesis, characterization and morphogenesis of carbonated fluorapatite-gelatine-nanocomposites: a complex approach towards the mineralization of hard tissues

Christian-Albrechts-Universität zu Kiel (University of Kiel), Germany (8. September 2008)

Burkhard Schmidt

Hot Lanczos: Lanczos-Eigensysteme zur Berechnung thermodynamischer Erwartungswerte

Universität Osnabrück (Januar 2007)

Large Matrices for Small Clusters: Computational Solid-State Theory at the Max Planck Institute for the Chemical Physics of Solids

Universität Karlsruhe (Februar 2007)

Managing Tigers and Leopards

Max-Planck-Institut für Physik komplexer Systeme (Mai 2008)

Ulrich Schwarz

High pressure as a tool for the preparation of EuSi_6 and other cage compounds

CMA Meeting, Stuttgart (Februar 2006)

Jenseits der 8-N Regel: EuSi_6

Hemdsärmelkolloquium, Christian-Albrechts-Universität zu Kiel (März 2006)

Hochdruckkristallchemie von Metallen und intermetallischen Verbindungen

Seminar Anorganische Chemie, TU München (Januar 2007)

Druckinduzierte elektronische Änderungen

Seminar Anorganische Chemie, Westfälische Wilhelms Universität Münster (Januar 2008)

New binary silicides by tailoring electronic properties

Zing Conference on Solid State Chemistry, Cancun, Mexico (March 2008)

Tailoring electronic properties by application of high pressure

High-pressure single crystal diffraction workshop, Adam Mickiewicz University Poznan, Poland (April 2008)

Clash of cultures? Under pressure, experiment meets theory

FPLO Workshop "DFT meets experiment", IFW Dresden (August 2008)

Diamant: Vom Schmuck zum Hightech-Material

125. Versammlung der Gesellschaft Deutscher Naturforscher und Ärzte, Tübingen (September 2008)

Oliver Stockert

Pressure tuning of the quantum phase transition in CeCu_2Si_2

μSR Users Meeting, Paul Scherrer Institute, Villigen, Switzerland (January 2006)

Quantum phase transitions studied by neutron scattering: demand for new instrumentation

TAS/ThALES workshop of the Institut Laue-Langevin, Rencurel, France (March 2006)

Magnetic quantum phase transitions probed by neutron scattering

International Symposium on Neutron Scattering: Electronic Correlations, Magnetism and Superconductivity (ECoMS), Forschungszentrum Karlsruhe, Karlsruhe (March 2006)

Mit Neutronen ins Innere der Materie blicken

Hochschule für Technik und Wirtschaft, Dresden (Juni 2006)

Magnetism and superconductivity in heavy-fermion systems close to quantum criticality

Technische Universität München, München (June 2006)

Does antiferromagnetism survive in superconducting CeCu_2Si_2 ?

International M²S conference, Dresden (July 2006)

Neutron scattering in antiferromagnetic and superconducting CeCu_2Si_2

International Conference on Research in High Magnetic Fields, Sendai, Japan (August 2006)

Magnetic quantum phase transition in CeCu_2Si_2 studied by neutron scattering

9th Japanese-German Symposium, Kyoto, Japan (August 2006)

Magnetic quantum phase transitions studied by neutron scattering

Deutsche Tagung für Forschung mit Synchrotronstrahlung, Neutronen und Ionenstrahlen an Großgeräten (SNI 2006), Hamburg (October 2006)

Magnetism and quantum criticality in heavy-fermion compounds: interplay with superconductivity

Edgar-Lüscher-Seminar, Klosters, Switzerland (February 2007)

Magnetism and quantum criticality in heavy-fermion compounds: interplay with superconductivity

Deutsche Physikalische Gesellschaft, Frühjahrstagung AKF, Regensburg (März 2007)

Magnetism and quantum criticality in CeCu_2Si_2 : interplay with superconductivity

Gordon Research Conference on Superconductivity, Les Diablerets, Switzerland (September 2007)

Magnetism and quantum criticality in CeCu_2Si_2 : interplay with superconductivity

Canadian Institute for Advanced Research, Lac Carling, Canada (October 2007)

Magnetism and quantum criticality in CeCu_2Si_2 : interplay with superconductivity

2nd workshop MSNE, 21st COE, Awaji Island, Japan (December 2007)

Spindynamik und magnetische Ordnung an Quantenphasenübergängen: Magnetismus kontra Supraleitung schwerer Elektronen

Seminar des Transregio 49 an der Universität Frankfurt, Frankfurt am Main (January 2008)

Magnetism and quantum criticality: interplay with superconductivity

Gordon Research Conference on Correlated Electron Systems, Biddeford, United States (June 2008)

Paramagnon-mediated superconductivity in the heavy-fermion compound CeCu_2Si_2 ?

Miniworkshop on Strong Correlations in Materials and Atom Traps, Trieste, Italy (August 2008)

Spin dynamics in superconducting CeCu_2Si_2

International Conference on Strongly Correlated Electron Systems SCES'08, Buzios/Rio, Brazil (August 2008)

Magnetism and quantum criticality in heavy-fermion systems: interplay with superconductivity

Max-Planck-Institut für Festkörperforschung, Stuttgart (September 2008)

Magnetism and quantum criticality in heavy-fermion systems: interplay with superconductivity
Joint Theory/College 4 seminar, Institut Laue-Langevin, Grenoble, France (September 2008)

Paramagnon-mediated superconductivity in the heavy-fermion compound $CeCu_2Si_2$?
Helmholtz-Zentrum für Materialien und Energie, Berlin (Oktober 2008)

Peter Thalmeier

Heavy fermion metals
Asia Pacific Center for Theoretical Physics, Jeju, Korea (January 2006)

Rare Earth Borocarbides RNi_2B_2C : almost unconventional superconductors
Asia Pacific Center for Theoretical Physics, Seoul, Korea (January 2006)

Heavy Electron unconventional superconductivity in UPd_2Al_3 and $PrOs_4Sb_{12}$
Seoul National University, Seoul, Korea (January 2006)

The frustrated J1-J2 model in high magnetic fields
International Conference on Highly Frustrated Magnetism, Osaka, Japan (August 2006)

Phases and correlations in Kondo lattice type models
9th Japanese-German Symposium, Hikone, Japan (August 2006)

Multipolar order and superconductivity in f-electron compounds
International Conference on New Quantum Phenomena in Skutterudite and Related Systems, Kobe, Japan (September 2007)

High field properties of frustrated 2d square lattice magnets
Iwate University, Morioka, Japan (October 2007)

Frustrated Magnetism in Vanadium Oxides
The European Conference on Magnetism 2008, Posnan, Poland (June 2008)

Magnetic excitations in heavy fermion superconductors
International Workshop on Competing Orders, Pairing Fluctuations and Spin Orbit Effect in Novel Unconventional Superconductors, Dresden, Germany, (July 2008)

Magnetic excitations in heavy fermion superconductors
Asia Pacific Center for Theoretical Physics, Pohang, Korea (August 2008)

Feedback effect in Rare Earth based FeAs and heavy fermion superconductors
FeAs High Tc Superconducting Multilayers and Related Phenomena, Rom, Universita La Sapienza (December 2008)

Frank R. Wagner

Chemical Bonding in Position Space
Department of Theoretical Chemistry, Lund University, Sweden (2004)

Steffen Wirth

Towards scanning tunneling spectroscopy of correlated electron systems
Physical Institute, University of Frankfurt (April 25, 2006)

Tunneling Spectroscopy on Manganites
Tulane University, New Orleans USA (May 10, 2007)

Tunneling Spectroscopy on Manganites
Louisiana State Univ., Baton Rouge, USA (May 11, 2007)

Scanning Tunneling Spectroscopy on Manganites
MARTECH, Florida State University, USA (May 21, 2007)

Tunneling Spectroscopy on Manganites
Seminar of Research Group 520, Technical University Dresden (June 27, 2007)

Tunnel- und Magnetotransporteigenschaften in elektronisch hochkorrelierten Systemen
Physics Colloquium of the Technical University Dresden (October 16, 2007)

Tunneling Spectroscopy on Manganites
II. Physics Institute B, RWTH Aachen (January 17, 2008)

Tunneling Spectroscopy on Manganites
II. Physics Institute, University of Cologne (January 18, 2008)

Tunneling and Magnetotransport Properties of Strongly Correlated Electron Systems
MPI for Solid State Research (May 21, 2008)

Magnetotransport in heavy fermion metals $CeMIn_5$ ($M = Co, Ir$): The Influence of antiferromagnetic fluctuations
Colloquium at the Physics and Astronomy Dept., Rice University, USA (November 5, 2008)

Magnetotransport in heavy fermion metals $CeMIn_5$ ($M = Co, Ir$): The Influence of antiferromagnetic fluctuations
Seminar at Texas Center for Superconductivity, University of Houston, USA (November 6, 2008)

Magnetotransport in heavy fermion metals $CeMIn_5$ ($M = Co, Ir$): The Influence of antiferromagnetic fluctuations
Seminar at MARTECH, Florida State University, USA (November 10, 2008)

Victor Yushankhai

Self-consistent renormalization theory of spin fluctuations in paramagnetic spinel LiV_2O_4
XIII Training Course in the Physics of Strongly Correlated Systems, Vietri sul Mare (Salerno), Italy (October 6-17, 2008)

Dirk Zahn

Exploring Reaction Mechanisms from Atomistic Simulations: New Insights in Crystal Nucleation, Phase Transitions and Segregation Processes
Berkeley, USA (January 12, 2006)

Molekular-dynamische Untersuchungen der Mechanismen von Reaktionen, Aggregationsprozessen sowie von Phasenbildungs- und Phasentrennungsvorgängen
Chemiedozententagung, Hamburg (21. März 2006)

Untersuchung der Bildung von Nanokristallen mit Hilfe von Molekular-dynamiksimulationen
Hemdsärmelkolloquium 2006, Kiel (16. März 2006)

Investigation of Crystal Formation from Molecular Dynamics Simulation
Festkörpertagung FCK06, Aachen (März 2006)

Molekular-dynamische Untersuchungen der Mechanismen von Reaktionen, Aggregationsprozessen sowie von Phasenbildungs- und Phasentrennungsvorgängen
Universität Leipzig (4. Mai 2006)

New Insights into the Mechanisms of Phase Transitions and Phase Separation Processes, Koç University, Istanbul (May 25, 2006)

Exploring the atomistic structure of phase interfaces from molecular dynamic simulations
Bear Creek NY, USA (October 11, 2006)

Molekular-dynamische Simulationen von Phasenübergängen, Phasentrennungsprozessen und strukturellen Umwandlungen in Festkörpern
Uni Stuttgart (26. Oktober 2006)

Molecular Simulations on ZnO Aggregation and Ripening
Hemdsärmelkolloquium 2007, Bonn (March 9, 2007)

Atomistic in-situ Investigation of heterogeneous Nucleation Events in Metals and Alloys from Molecular Dynamics Simulations
SPP 1296, Berchtesgaden (April 2, 2007)

New Insights into the Mechanisms of Phase Transitions and Phase Separation Processes
MPI Festkörperforschung Stuttgart (May 23, 2007)

Tackling Energy Barriers for Exploring Nucleation Events from Molecular Dynamics Simulations
Energy-Landscapes Workshop, Petritoli, Italia (July 2007)

Understanding Biominerals from Computer Simulations
Universität Darmstadt (June 26, 2007)

Molekular-dynamische Simulationen von Nukleations- und Selbstorganisationsprozessen
Osnabrück (December 3, 2007)

Nucleation and Self-Organization, Metastability and Rare Events in Complex Systems

Erwin Schroedinger Institute, Vienna, Austria (February 20, 2008)

Nanoionics (Computersimulationen zu CaF_2 und $\text{CaF}_2/\text{BaF}_2$ Nanoschichtsystemen)
Hemdsärmelkolloquium 2008, Mainz (27. März 2008)

Mechanisms of Ion Aggregation & Self-Organization during the Nucleation of Nanocrystals and Nanocomposite Materials
SFB 569 Kolloquium, Ulm (22. April 2008)

Mechanisms of Ion Aggregation & Self-Organization during the Nucleation of Nanocrystals and Nanocomposite Materials
Koç University, Istanbul, Turkey (May 20, 2008)

Exploring Rare Reaction Events and Nucleation Processes from Molecular Dynamics Simulations
COST P19 Multiscale Modelling of Materials, Brno, Czeck Republic (June 25, 2008)

Atomistische Modellierung von Nukleations- und Selbstorganisationsvorgängen
TU Chemnitz (16 Juli 2008)

From Ion Aggregation to Nanocrystal (Self-) Organization: a Transferrable Simulation Platform, Festkörpertagung, Bayreuth (25. September 2008)

Biominerals in silico: New Insights from Computer Simulations
IMPRS Dresden (October 8, 2008)

Atomistic Simulation Approaches to Structural Transformations and Self-Organization
MPI for Iron Research, Düsseldorf (October 13, 2008)

Posterauszeichnungen Best Poster Awards

Posterprämierung durch GDCh-Fachgruppe Festkörperchemie anlässlich der 13. Vortragstagung der GDCh-Fachgruppe Festkörperchemie in Aachen 2006 an *Andreas Schlechte*, R. Niewa, T. Cichorek, Y. Prots, M. Schmidt, R. Ramlau, R. Kniep: Beiträge zu ternären metallischen Zr-Pniktidchalkogeniden.

Poster Award of the Federation of European Materials Societies to *Annu Thomas*: Control of the Crystal Growth of calcium Oxalates (1st prize), presented at the Junior Euromat 2008.

Best Scientific Presentation of Young Scientists, Federov Session, St. Petersburg 2008, to *Elena Roseeva*, J. Buda, P. Simon, U. Schwarz, O. Frank-Kamenetskaya, R. Kniep: Biomimetic Carbonated Fluorapatite-Gelatine Composite: Synthesis, Characterization and Morphogenesis.

Lehrveranstaltungen *University Lectures*

Juri Grin

Strukturchemie

Technische Universität Dresden, SS 07, SS 08

Chemical Bonding and Crystallographic Features

European School of Materials Science, Ljubljana, Slovenia, May, 22-27, 2006

Frank Haarmann

hat im Rahmen seiner Habilitation die Vorlesung *Chemie für Physiker, Werkstoffwissenschaftler und Geographen*,

Technische Universität Dresden, WS 06/07 und WS 07/08 zur Hälfte gelesen.

Seminar zur Anorganischen Chemie für Bauingenieure WS 05/06, gemeinsam mit Ulrich Schwarz

Guido Kreiner

Chemie für Physiker, Werkstoffwissenschaftler und Geographen

Vorlesung, Seminar und Praktikum, Technische Universität Dresden, WS 06/07, WS 07/08, WS 08/09

A Practical Guide to Determine Phase Diagrams

European School of Materials Science, Ljubljana, Slovenia, May, 22-27, 2006

Stefano Leoni

Numerische Methoden (mit G. Seifert, D. Zahn) Wahlfach (WF) und Schwerpunkt-Diplomfach (SDF), Vorlesung, Technische Universität Dresden SS 06

Numerical Simulations of Complex Materials (International Max Planck Research School, IMPRS). Vorlesung im Rahmen der IMPRS SS 06

Spektroskopie und numerische Simulation in der Anorganischen Chemie

Spezialveranstaltungen für Fortgeschrittene Studenten und Doktoranden, Vorlesung, Technische Universität Dresden SS 06

Methods of Computer Simulations in Chemistry, Physics and Materials Sciences (IMPRS)

Vorlesung, Technische Universität Dresden WS 06/07

Methoden der Computersimulation in der Chemie (mit G. Seifert, D. Zahn)

Wahlfach (WF) und Schwerpunkt-Diplomfach (SDF). Vorlesung, Technische Universität Dresden WS 06/07

Chemie für Wasserwirtschaftler

Seminar und Vorlesung (Vorlesung mit Ulrich Schwarz), Technische Universität Dresden WS 06/07

Spektroskopie und numerische Simulation in der Anorganischen Chemie, Spezialveranstaltungen für Fortgeschrittene und Doktoranden. Vorlesung, Technische Universität Dresden SS 07

Methoden der Computersimulation in der Chemie (mit G. Seifert, D. Zahn)

Wahlfach (WF) und Schwerpunkt-Diplomfach (SDF). Vorlesung, Technische Universität Dresden WS 07/08

Chemie für Wasserwirtschaftler

Seminar und Vorlesung, Technische Universität Dresden WS 07/08

Spektroskopie und numerische Simulation in der Anorganischen Chemie

Spezialveranstaltungen für Fortgeschrittene und Doktoranden. Vorlesung, Technische Universität Dresden SS08

Chemie für Abfallwirtschaftler

Seminar, Technische Universität Dresden, WS 08/009

Jens Müller

Superconductivity

Vorlesung, 2 SWS, TU Dresden, SS 08

Ulrich Schwarz

Anorganische Chemie für Bauingenieure

Vorlesung, Technische Universität Dresden WS 05/06

Seminar zur Anorganischen Chemie für Bauingenieure WS 05/06, gemeinsam mit Frank Haarmann

Chemie für Wasserwirtschaftler und Wirtschaftsingenieure

Vorlesung, Technische Universität Dresden WS 06/07

Chemie für Wasserwirtschaftler

Vorlesung, Technische Universität Dresden WS 07/08

Seminar zur Anorganischen Chemie für Studierende des Ingenieurstudienganges Abwasser und Altlasten WS 2005/2006, WS 2006/2007, WS2008/2009 gemeinsam mit Stefano Leoni

Chemie für Wirtschaftsingenieure

Vorlesung, Technische Universität Dresden SS 07, SS 08

Seminar für Studierende des Lehramts Umwelttechnik WS 2008/2009

Ulrich Schwarz, Stefano Leoni

Oliver Stockert

Streuethoden

Vorlesung, Technische Universität Dresden, SS 08

Scattering methods: neutron and synchrotron radiation for solid state investigations

Vorlesung, Technische Universität Dresden, SS 08

Franziska Weickert

Übungsgruppe (Rechenaufgaben) zur Vorlesung Festkörperphysik

Technische Universität Dresden, WS 07/08

Dirk Zahn

Exploring the Dynamics of Atoms, Molecules and Materials from Computer Simulations

Vorlesung, Max-Planck Research School and TU Dresden, WS 05/06

Methods of Computer Simulation in Chemistry, Physics and Materials Sciences

Vorlesung, Technische Universität Dresden, WS 06/07, WS 07/08, WS 08/09

2nd Bilateral Workshop 'Basics in Real Space Theories' MPI CPFS und Koç Universität Istanbul, SS 06, 17.-19.7.2006

Molecular Modelling and Simulation

Visiting lecturer course, Koç University, Istanbul, SS 08

Praktika im Studiengang Physik, Technische Universität Dresden

Tobias Förster (WS 06/07, SS 07), Jan-Guido Donath (SS 06, WS 06/07), Stefan Lausberg (WS 08/09), Alexander Steppke (WS 08/09), Anton Jesche (SS 08, WS 08/09), Julia Arndt (SS 06, WS 06/07), Stefan Ernst (WS 06/07, SS 07), Jens Brandenburg (WS 07/08, SS 08), Franziska Weikert (WS 06/07, WS 07/08, WS 08/09)

 Σ^5 Aktivitäten / Σ^5 Activities

Praktika im Studiengang Chemie Diplom

(Fortgeschrittenen Praktikum; Vertieftes Kernfach; Schwerpunkt Diplomfach), bis WS 2008/2009

Koordination: Ulrich Schwarz

Marc Armbrüster, Horst Borrmann, Ulrich Burkhardt, Raul Cardoso, Enkhtsetseg Dashjav, Matthias Friedrich, Silvia Gerlach, Thorsten Goebel, Daniel Grüner, Roman Gumeniuk, Frank Haarmann, Oliver Hochrein, Peter Höhn, Jens Hunger, Franziska Jach, Alexander Kerkau, Kirill Kovnir, Guido Kreiner, Andreas Leithe-Jasper, Stefano Leoni, Katrin Meier, Fabian Nitsche, Oliver Pecher, Helge Rosner, Andreas Schlechte, Marcus Schmidt, Ulrich Schwarz, Paul Simon, Aron Wosylus

Praktikum im Studiengang Chemie Bachelor „Spezielle Anorganische Chemie“, ab Sommersemester 2008

Koordination: Ulrich Schwarz

Module: Raul Cardoso, Silvia Goebel, Peter Höhn, Yurii Prots, Ulrich Burkhardt

Praktikum im Masterstudiengang Chemie „Vertiefte Anorganische Chemie“, ab WS 2008/2009

Koordination: Ulrich Schwarz

Frank Haarmann, Peter Höhn, Oliver Pecher

Akademische Qualifikationen**Academic Qualifications****Diplomarbeiten / Diploma Theses**

Stefan Ernst

Optimisation of the preparation process for tips used in scanning tunneling microscopy
Technische Universität Dresden (26.6.2006)

Katrin Meier

Hochdrucksynthesen zinnreicher Platin- und Seltenerdmetallverbindungen
Technische Universität Dresden (22.08.2006)

Vivian Petzold

Electronic structure and related superconducting properties of conventional superconductors
Technische Universität Dresden (22.02.2007)

Constanze Lamprecht

Untersuchung der magnetischen und supraleitenden Eigenschaften von RNi_2B_2C ($R = Hm, Tm$)
Technische Universität Dresden (26.02.2007)

Miriam Schmidt

Elektronische Struktur und magnetische Eigenschaften niedrigdimensionaler Übergangsmetalloxide
Technische Universität Dresden (01.03.2007)

Lisa Siggelkow

Synthese, Kristallstruktur und mechanische Eigenschaften der intermetallischen Phase Nb_2Co_7
Technische Universität Dresden (07.06.2007)

Matthias Friedrich

Nanopartikelsynthese und katalytische Charakterisierung von Cu_8Pd_{15} und $Cu_{60}Pd_{40}$
Technische Universität Dresden (10.07.2007)

Marija Borna

Synthesis and characterization of copper(II) complex compounds with condensation derivatives of hetero-aromatic carbonyl compounds and ethyl hydrazinoacetate hydrochloride
University of Belgrade Faculty of Chemistry, (20.09.2007)

Alexander Kerkau

Untersuchungen zum Stabilitätsbereich und zur Fehlordnung der ternären Laves-Phase $Nb(Cr_{1-x}Co_x)_2$.
Technische Universität Dresden (26.11.2007)

Fabian Nitsche

Verbindungsbildung im System Strontium-Nickel-Stickstoff. Technische Universität Dresden (14.07.2008)

Oliver Pecher

Die intermetallische Phase $Ca_{1-x}Ga_{2+3x}$: Einkristall- und Festkörper-NMR-Untersuchungen zu Kristallstruktur und lokaler Ordnung. Technische Universität Dresden, (14.07.2008)

Alexander Herzog

Elektronische Korrelation im Halbleiter FeSB₂:
Untersuchung mittels optischer Spektroskopie im
Vergleich zu RuSB₂
Technische Universität Dresden (26.11.2008)

Bachelor

Matthias Werheid

Synthese und Charakterisierung von Ba₈Ga_{16-x}Ge_{30+x}
Technische Universität Dresden, 14.10.2008

Gemeinsame Masterarbeit von

R. J. Aranda García

Síntesis y caracterización de nuevos materiales con
propiedades de imanes permanentes.
Master (Maestro en Ciencias), Benemérita Universidad
Autónoma de Puebla, Puebla, Mexiko (2006).
(BUAP, Dr. Jesus Vicente Pacheco Espejel) und dem
Max-Planck-Institut für Chemische Physik fester Stoffe
(Prof. Juri Grin), December 2006.

Dissertationen / PhD Theses

Corneliu Miclea

Investigation of superconducting order parameters in
heavy-fermion and low-dimensional metallic systems
under pressure
Technische Universität Dresden (09.03.2006)

Rene Chemnitz

Intercalation von Stickstoff und Wasserstoff in Sr₂N
sowie ortsabhängige Feststoffcharakterisierung mit
Laserablation.
Technische Universität Dresden (12.04.2006)

Martin Kirchner

Existenzbereiche und physikalische Eigenschaften
metallreicher Perowskite (SE₃X)M (SE = Seltenerd-
Metall; X = N, O, M = Al, Ga, In Sn) mit Ergänzungen
zu den ternären Systemen EA–In–N
Technische Universität Dresden (11.04.2006)

Caren Göbel

Einfluss von Fluorid auf die Morphogenese und
mikroskopische Struktur von Calciumphosphat-
Gelatine-Kompositen
Technische Universität Dresden (11.07.2006)

Franziska Weickert

Quantenkristisches Verhalten in hochkorrelierten
Elektronensystemen
Technische Universität Dresden (15.09.2006)

Bastian Ewald

Borophosphate der Haupt- und Nebengruppenmetalle:
Synthese, Charakterisierung und Strukturchemische
Klassifizierung
Technische Universität Dresden (02.11.2006)

Gabriel Alejandro Dionicio

Electrical resistivity of YbRh₂Si₂ and EuT₂Ge₂ (T= Co,
Cu) at extreme conditions of pressure and temperature
Technische Universität Dresden (15.12.2006)

Johannes Frenzel

Structural, electronic and optical properties of cadmium
sulfide nanoparticles
Technische Universität Dresden (19.12.2006)

Igor Veremchuk

Phasengleichgewichte und Kristallstrukturen der
Verbindungen in den Systemen Er–Ni–B,
Yb–{Fe, Co, Ni}–B und deren Analoge (Titel übersetzt)
National University Lviv, Ukraine (2006)

Daniel Grüner

Untersuchungen zur Natur der Laves-Phasen in
Systemen der Übergangsmetalle
Technische Universität Dresden (08.01.2007)

Nikolaus Reinfried

Modifizierung der Werkstoffe auf Basis von
Magnesiumsilicid mit Hilfe der Spark-Plasma-Synthese
Technische Universität Dresden (09.02.2007)

Julia Ferstl

New Yb-based systems: From an intermediate-valent to
a magnetically ordered state
Technische Universität Dresden (04.04.2007)

Edit Lengyel

Antiferromagnetism and Superconductivity in Ce-based
Heavy-Fermion Systems
Technische Universität Dresden (07.09.2007)

Christian Kudla

Strukturell komplexe intermetallische Phasen –
Untersuchungen an binären und ternären Phasen der
Systeme Ag–Mg und Ag–Ga–Mg
Technische Universität Dresden (16.11.2007)

Rainer Giedigkeit

Strukturelle Ordnung und Unordnung in binären und
ternären Verbindungen des Galliums mit Ytterbium und
Palladium
Technische Universität Dresden, 27.11.2007

Agnieszka Kawka

An atomistic simulation scheme for modelling crystal
formation: nucleation mechanism in ion clusters and
fluorapatite-collagen composites
Technische Universität Dresden (03.06.2008)

Ulrike Köhler

Thermoelectric Transport in Rare-Earth Compounds
Technische Universität Dresden (08.05.2008)

Anastasia Alekseeva

Neue ternäre Boride des Magnesiums mit Rhodium und
Iridium: Synthese, Kristallstruktur und chemische
Bindung (Titel übersetzt)
State University Moscow (2008)

Yulia Zaikina

Polykationische Clathrate des Zinks und des Siliziums:
Synthese, Aufbau und thermoelektrische Eigenschaften
State University Moscow (2008)

Liu Yan

Syntheses, Structure and Properties of Intermetallic Compounds in $RE_xT_yX_z$ (RE = Rare Earth, T = Transition Metal, X = Sb and Bi) Systems
Shanghai Institute of Ceramics Chinese Academy of Sciences (2008)

Habilitationen

Dirk Zahn

Theoretical Approaches for the Investigation of Research Mechanisms, Crystal Nucleation and Phase
Technische Universität Dresden (24.01 2006)

Enkhtsetseg Dashjav

Carbometalates. Syntheses, Crystal Structures, Physical Properties, and Chemical Bonding.
National University of Mongolia, Ulaanbaatar
(Nov. 2008)

Berufungen / Calls

Dr. Philipp Gegenwart auf eine Professur (W2) am 1. Physikalischen Institut der Georg-August-Universität Göttingen, 2006.

Huiqui Yuan, Chang-jiang Professor,
Zhejiang University Hangzhou, China, 2008.

Dr. Jens Müller auf die Professur (W3) für experimentelle Festkörperphysik an der Johann Wolfgang Goethe-Universität Frankfurt am Main, 2008.

Ehrenämter / Honorary Positions

Prof. Dr. Frank Steglich
Vizepräsident der Deutschen Forschungsgemeinschaft DFG (bis 30.06.2007)

Veröffentlichungen Publications

2006

Afyon, S., P. Höhn, M. Armbrüster, A. Baranov, F. R. Wagner, M. Somer and R. Kniep: Azidoaurates of the Alkali Metals. In: Zeitschrift für Anorganische und Allgemeine Chemie **632**, 1671-1680 (2006).

Alekseeva, A. M., A. M. Abakumov, A. Leithe-Jasper, W. Schnelle, Y. Prots, P. S. Chizhov, G. v. Tendeloo, E. V. Antipov and Y. Grin: Mg_8Rh_4B - A new type of boron stabilized Ti_2Ni structure. In: Journal of Solid State Chemistry **179**, 2751-2760 (2006).

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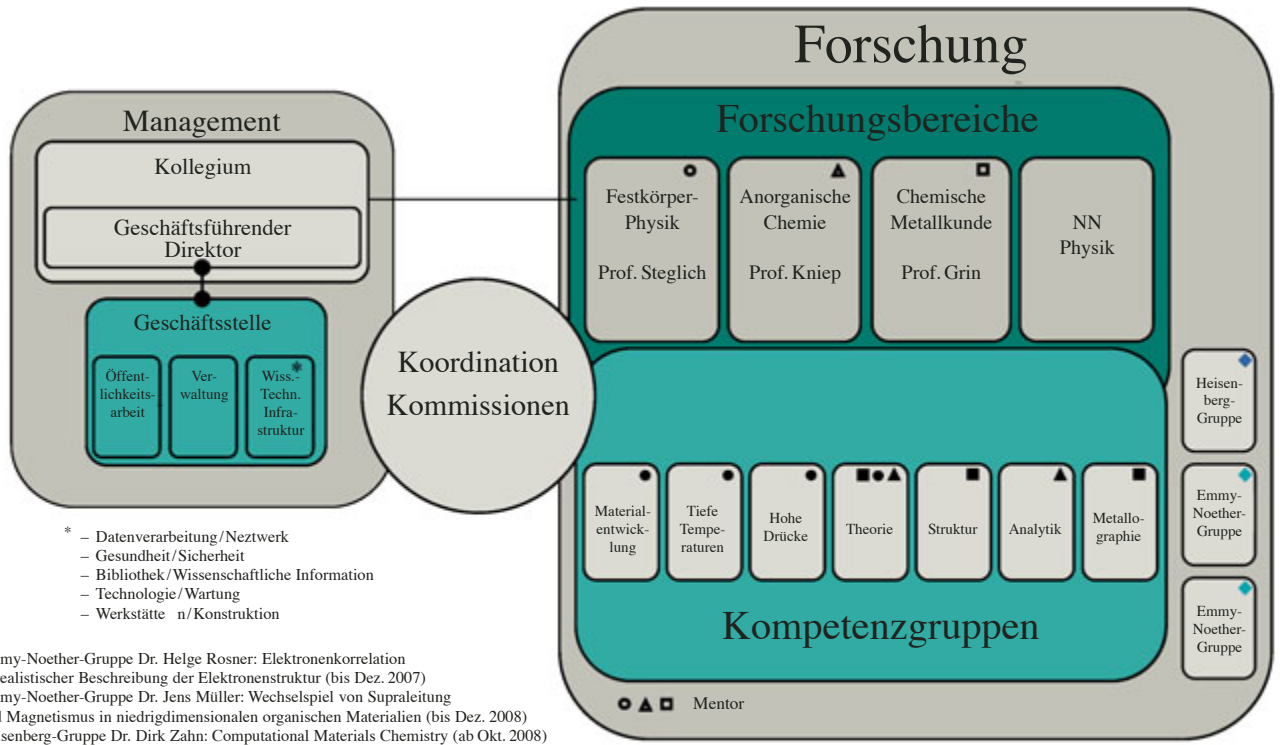
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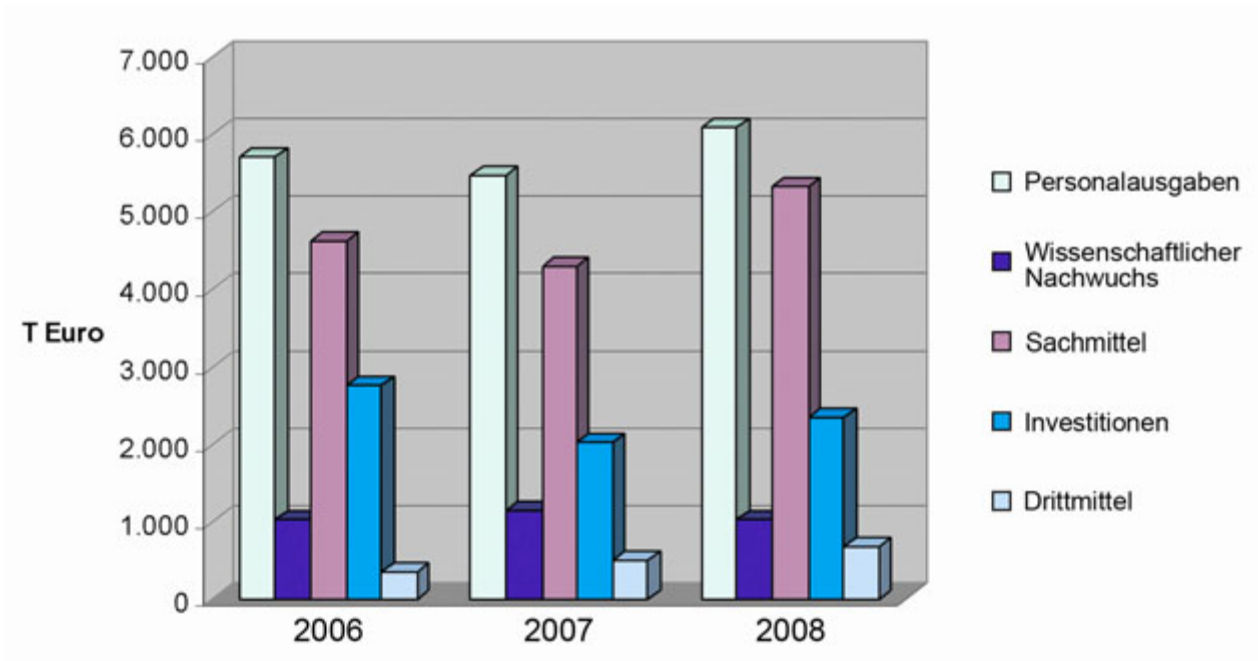
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Organisation des Institutes Organization of the Institute



**Entwicklung der Ausgaben des Institutes
(Institutionelle Förderung/Drittmittel)**
*Trend in Expenditure
(Institutional Funding / Third-Party Funds)*



Öffentlichkeitsarbeit / *Public Relations*

Medien

- regionale und überregionale Presse (Pressemitteilungen)
- Rundfunk und Fernsehen

Aktionen, Besuche

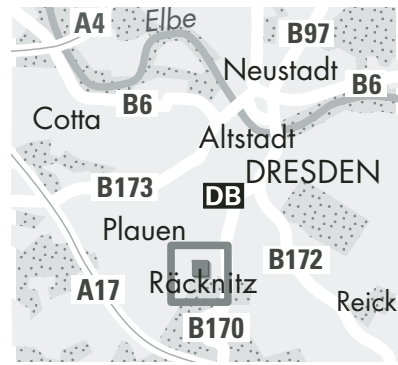
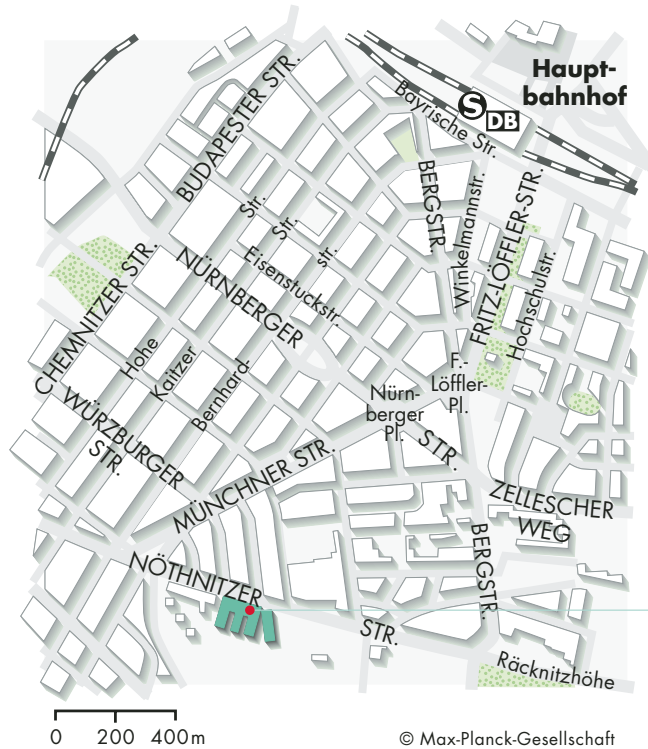
- Besuche von wissenschaftlichen Delegationen und Politikergruppen
- Führungen für Lehrer- und Schülergruppen, Studentengruppen und interessierte Bürger
- Betreuung von experimentell orientierten Schülerarbeiten („Besondere Lernleistungen“)
- Schulpraktika
- Kunstausstellungen / Vernissagen
- Firmenpräsentationen und Workshops
- Lehrlingsausbildung

Großveranstaltungen

- *Dresden – Stadt der Wissenschaften 2006*
(s. Zusammenarbeit mit anderen Institutionen)
- *Dresdner Lange Nacht der Wissenschaften*, Veranstalter: Dresdner Wissenschaftseinrichtungen und Netzwerk Dresden – Stadt der Wissenschaften
27.6.2006, 18.00 – 1.00 Uhr, 2300 Besucher
29.6.2007, 18.00 – 1.00 Uhr, 3900 Besucher
- Jahrestagung der Max-Planck-Gesellschaft im Dresdner Kongresszentrum vom 24.6. – 27.6.2008; betreuter Institutsstand im Kongresscenter; Führungen im Institut während des Rahmenprogramms Jahrbuch der Max-Planck-Gesellschaft

Zusammenarbeit mit anderen Institutionen, Mitarbeit und Mitgliedschaft in Netzwerken

- *Netzwerk „Dresden – Stadt der Wissenschaften“ e. V.*
 - Der Stifterverband schrieb 2003 zum ersten Mal den Wettbewerb „Stadt der Wissenschaften“ für das Jahr 2005 aus, an dem sich die Stadt Dresden beteiligte und zu den drei Finalisten gehörte. Die Gründung des Netzwerkes folgte danach mit Blick auf die Bewerbung von Dresden in der folgenden Ausschreibung. Mitte 2005 errang die Stadt Dresden den Titel „Stadt der Wissenschaften 2006“, in dessen Rahmen sich das Institut aktiv an folgenden Veranstaltungen beteiligte:
Lange Nacht der Wissenschaften (s. oben, Besucherzahl gesamt ca. 30.000)
Faszination Technologie, „Haus der Technik“ im Dresdner Hauptbahnhof, 5.11.2006 (ca. 3000 Besucher)
 - Aus den Aktivitäten im Rahmen der „Stadt der Wissenschaften 2006“ wurde der *Juniordoktor* weitergeführt. Das Institut bot 2007/2008 zwei und 2008/2009 vier interaktive Vorlesungen an.
 - 2007 Journalistenreise
- *Technische Universität Dresden*
Führungen im Rahmen der Sommeruniversität 2006, 2007, 2008
- *Materialforschungsverbund Dresden e. V.*



**Max-Planck-Institut
für Chemische Physik fester Stoffe**

Anreise mit dem Auto

Wechseln Sie von der Autobahn A4 am Autobahn-dreieck Dresden-West auf die A17. An der Ausfahrt Dresden-Südvorstadt verlassen Sie die A17 und fahren auf der B170 in Richtung Stadtmitte ca. 2,5 km bis zur zweiten großen Kreuzung mit einer Ampelanlage. Dort biegen Sie der Beschilderung „Plauen“ folgend nach links in die Nöthnitzer Straße ein.

Von der Stadtmitte kommend folgen Sie bitte den Hinweisen „A17“, „B170“ bzw. „Prag“. Nachdem Sie den Campus der Technischen Universität passiert haben, biegen Sie bitte dem Hinweis „Plauen“ folgend an der nächsten großen Ampelkreuzung scharf nach rechts in die Nöthnitzer Straße ein.

Anreise mit der Bahn

Von beiden Dresdner Bahnhöfen (Hauptbahnhof und Bahnhof Dresden-Neustadt) bringt Sie die Straßenbahnlinie 3 in Richtung Coschütz bis zur Haltestelle Nöthnitzer Straße.

Anreise mit dem Flugzeug

Die S-Bahnlinie 2 bringt Sie vom Flughafen bis zum Hauptbahnhof Dresden bzw. Bahnhof Dresden-Neustadt. Von dort siehe Anreise mit der Bahn.

Arrival by car

Change the motorway A4 at the interchange Dresden-West to the motorway A17 to Prague. At the exit Dresden-Südvorstadt follow the B170 towards the city center (Stadtzentrum) for about 2.5 km to the second intersection with traffic lights (sign “Plauen”). Turn to the left into Nöthnitzer Straße.

From the city center follow the signs “A17”, “B170” or “Prag”. After passing Dresden University campus turn to the right (sign “Plauen”) into Nöthnitzer Straße at the traffic lights.

Arrival by train

From both railway stations, Hauptbahnhof Dresden (Central Station) and Bahnhof Dresden-Neustadt take streetcar no. 3 (destination Coschütz) to Nöthnitzer Straße.

Arrival by plane

Take the S-Bahn (suburban railway) no. 2 from the airport to Hauptbahnhof Dresden (Central Station) or Bahnhof Dresden-Neustadt. From here see arrival by train.