

Publications 2009

Monographs and Editorships

- 1) A.V. Granato, G. Gremaud, F.M. Mazzolai, J. Eckert (eds.) *15th International Conference on Internal Friction and Mechanical Spectroscopy, Perugia/ Italien, 20.-25.7.08*, Elsevier Science, Amsterdam. Sonderband Materials Science and Engineering A 521-522, 2009, 426 S.
- 2) L. Schultz, J. Eckert, L. Battezzati, M. Stoica (eds.) *The 13th International Conference on Rapidly Quenched and Metastable Materials: Proceedings*, IoP Publishing, Journal of Physics: Conference Series, 144, 2009, 1101 S.

Journal Papers

- 1) A. Alfonsov, E. Vavilova, V. Kataev, B. Buechner, A. Podlesnyak, M. Russina, A. Furrer, T. Straessle, E. Pomjakushina, K. Conder, D.I. Khomskii, *Origin of a spin-state polaron in lightly hole doped LaCoO₃*, Journal of Physics: Conference Series 150 (2009), S. 42003/1-4.
- 2) B. Antonioli, B. Buechner, J.K. Clegg, K. Gloe, L. Goetzke, A. Heine, A. Jaeger, K.A. Jolliffe, O. Kataeva, V. Kataev, R. Klingeler, T. Krause, L.F. Lindoy, A. Popa, W. Seichter, M. Wenzel, *Interaction of an extended series of N-substituted di(2-picoly)amine derivatives with copper(II). Synthetic, structural, magnetic and solution studies*, Dalton Transactions (7) (2009), S. 4795-4805.
- 3) V.Y. Aristov, O.V. Molodtsova, Y.A. Ossipyan, B.P. Doyle, S. Nannarone, M. Knupfer, *Chemistry and electronic properties of ferromagnetic metal-organic semiconductor interfaces: Fe on CuPc*, physica status solidi (a) 206 (2009) Nr. 12, S. 2763-2770.
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- 5) M.E. Arroyo y de Dompablo, U. Amador, J.M. Gallardo-Amores, E. Moran, H. Ehrenberg, L. Dupont, R. Dominko, *Polymorphs of Li₃PO₄ and Li₂MSiO₄ (M = Mn, Co): The role of pressure*, Journal of Power Sources 189 (2009) Nr. 1, S. 638-642.
- 6) P. Atkinson, O.G. Schmidt, *Gallium-assisted deoxidation of patterned substrates for site-controlled growth of InAs quantum dots*, Journal of Crystal Growth 311 (2009) Nr. 7, S. 1815-1818.
- 7) A. Bachmatiuk, F. Boerrnert, M. Grobosch, F. Schaeffel, U. Wolff, A. Scott, M. Zaka, J.H. Warner, R. Klingeler, M. Knupfer, B. Buechner, M.H. Ruemeli, *Investigating the graphitization mechanism of SiO₂ nanoparticles in chemical vapor deposition*, ACS nano 3 (2009) Nr. 12, S. 4098-4104.
- 8) A. Bachmatiuk, M. Bystrzejewski, F. Schaeffel, P. Ayala, U. Wolff, C. Mickel, T. Gemming, T. Pichler, E. Borowiak-Palen, R. Klingeler, H.-W. Huebers, M. Ulbrich, M. Knupfer, D. Haberer, B. Buechner, M.H. Ruemeli, *Carbon nanotube synthesis via ceramic catalysts*, Physica Status Solidi B 246 (2009) Nr. 11-12, S. 2486-2489.
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- 10) L. Balsanova, D. Mikhailova, A. Senyshyn, D. Trots, H. Fuess, W. Lottermoser, H. Ehrenberg, *Structure and properties of a-AgFe₂(MoO₄)₃*, Solid State Sciences 11 (2009) Nr. 6, S. 1137-1143.
- 11) M. Baricco, T.A. Baser, J. Das, J. Eckert, *Correlation between Poisson ratio and Mohr-Coulomb coefficient in metallic glasses*, Journal of Alloys and Compounds 483 (2009) Nr. 1-2, S. 125-131.
- 12) S. Barnoss, H. Shanak, C.C. Bof Bufon, T. Heinzel, *Piezoresistance in chemically synthesized polypyrrole thin films*, Sensors and Actuators A 154 (2009), S. 79-84.
- 13) T.A. Baser, J. Das, J. Eckert, M. Baricco, *Glass formation and mechanical properties of (Cu₅₀Zr₅₀)_{100-x}Al_x (x = 0, 4, 5, 7) bulk metallic glasses*, Journal of Alloys and Compounds 483 (2009) Nr. 1-2, S. 146-149.
- 14) M. Behulova, M. Liptak, P. Grgac, W. Loeser, H.-G. Lindenkreuz, *Comparison of microstructures developed during solidification of undercooled tool steel in levitation and on a substrate*, Journal of Physics: Conference Series 144 (2009) Nr. 1, S. 12099/1-4.
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- 16) M. Benyoucef, L. Wang, A. Rastelli, O.G. Schmidt, *Toward quantum interference of photons from independent quantum dots*, Applied Physics Letters 95 (2009) Nr. 26, S. 261908/1-3.
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- 18) H. Bih, I. Saadoune, H. Ehrenberg, H. Fuess, *Crystal structure, magnetic and infrared spectroscopy studies of the LiCryFe_{1-y}P₂O₇ solid solution*, Journal of Solid State Chemistry 182 (2009), S. 821-826.
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- 21) G. Bo, L. Ying, J. Liu, Y. Lu, Z. Liu, C. Cai, R. Huehne, B. Holzapfel, *Crystallization and magneto-transport characteristics in mod YBa₂Cu₃O_{7-d} films*, *International Journal of Modern Physics B* 23 (2009) Nr. 17, S. 3470-3475.
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- 37) A. Sotnikov, H. Schmidt, M. Weihnacht, *Characterization of new promising piezoelectric crystals*, International Mini-Conference on Information Electronics Systems, Sendai/ Japan, 27.-28.10.09, in: Proceedings, 11-14 (2009).
- 38) A.V. Sotnikov, H. Schmidt, M. Weihnacht, E.P. Smirnova, T.Y. Chemekova, Y.N. Makarov, *Material parameters of AlN and LiAlO₂ single crystals*, 2009 IEEE Frequency Control Symposium, Besancon/ France, in: Proceedings, 935-938 (2009).
- 39) M. Stoica, S. Roth, J. Eckert, G. Vaughan, *Glass-forming Fe-based alloys purified by fluxing techniques*, International Conference on Advanced Processing for Novel Functional Materials - APNFM 2008, Dresden, 23.-25.1.08, in: Proceedings, Y. Grin, B. Kieback, J. Schmidt (eds.), 471- 475 (2009).
- 40) R. Sueptitz, J. Koza, M. Uhlemann, A. Gebert, L. Schultz, *Magnetic field effect on the anodic behaviour of a ferromagnetic electrode in acidic solutions*, 6th International Conference on Electromagnetic Processing of Materials, EPM 2009, Dresden, 19.-23.10.09, in: Proceedings, 435-438 (2009).
- 41) T. Thersleff, S. Engel, J. Haenisch, M. Erbe, D. Pohl, R. Huehne, B. Rellinghaus, L. Schultz, B. Holzapfel, *Microstructure and phase evolution of BaHfO₃ pinning centers in YBCO thin films fabricated with the TFA-MOD process*, MC 2009. Microscopy Conference, Graz/ Austria, 30.8.-4.9.09, in: Proceedings, Volumen 3, Materials Science, W. Grogger, F. Hofer, P. Poelt (eds.), Graz: Verl. der TU Graz, 2009, Vol. 3, 485-486 (2009).
- 42) J. Thomas, J. Schumann, T. Gemming, J. Eckert, *TEM investigation of electron beam evaporated epitaxial Fe₃Si films on GaAs (100) substrates*, Microscopy Conference 2009 (MC2009), Graz/ Oesterreich, 30.8.-4.9.09, in: Proceedings, W. Grogger, F. Hofer, P. Poelt (eds.) Verlag der TU Graz/ Oesterreich (2009).
- 43) K. Tschulik, J. Koza, M. Uhlemann, A. Gebert, L. Schultz, *Electrodeposition of copper layers in magnetic gradient fields*, 6th International Conference on Electromagnetic Processing of Materials, EPM 2009, Dresden, 19.-23.10.09, in: Proceedings, 451-454 (2009).
- 44) M. Uhlemann, J.A. Koza, K. Tschulik, A. Gebert, L. Schultz, *Electrodeposition of Fe and CoFe in superimposed high magnetic fields*, 6th International Conference on Electromagnetic Processing of Materials, EPM 2009, Dresden, 19.-23.10.09, in: Proceedings, 491-494 (2009).
- 45) A. Winkler, S. Menzel, H. Schmidt, *SAW-grade SiO₂ for advanced microfluidic devices*, in: Proceedings of SPIE, 7362, 73621Q (2009).
- 46) S. Yang, L. Dunsch, *Endohedral Fullerenes*, in: Encyclopedia of Inorganic Chemistry, Verlag John Wiley and Sons 2008, Lukehart, C.M.; Scott, R.A. (eds), online only (2009).
- 47) X. Yang, K. Eckert, R. Sueptitz, A. Gebert, M. Uhlemann, S. Odenbach, *Potentiostatic current oscillations of iron in sulfuric acid solution in magnetic fields*, 6th International Conference on Electromagnetic Processing of Materials, EPM 2009, Dresden, 19.-23.10.09, in: Proceedings, 495-498 (2009).

Invited Talks

- 1) M. Benyoucef, Single quantum emitters: Current challenges and potential applications, Seminar, Carl von Ossietzky Universitaet Oldenburg, 16.7.09 (2009).
- 2) M. Benyoucef, Tunable single-photon source and photonic molecules, Seminar, Universitaet Hamburg, 8.6.09 (2009).
- 3) M. Benyoucef, Single quantum emitters and optical microcavities, Seminar, Otto-von-Guericke-Universitaet Magdeburg, 11.5.09 (2009).
- 4) M. Benyoucef, Controlling photons using semiconductor nanostructures, Colloquium, Fraunhofer Center Nanoelectronic Technology, Dresden, 5.5.09 (2009).

- 5) M. Benyoucef, On the way to quantum interference between two single photons emitted from two independent quantum dots, Seminar, Institute for Quantum Electronics, ETH Zuerich/ Switzerland, 27.10.09 (2009).
- 6) M. Benyoucef, Nonclassical light from solid-state quantum emitters, Seminar, TU Dresden, 25.8.09 (2009).
- 7) A.N. Bogdanov, A.A. Leonov, U.K. Roessler, Skyrmion states in chiral magnets, Seminar, Institut fuer Festkoerperforschung, FZ Juelich, 16.12.09 (2009).
- 8) S. Borisenko, ARPES - a tool to study nature, Solid State Physics Seminar, Vienna University of Technology, Wien/ Oesterreich, 13.5.09 (2009).
- 9) S. Borisenko, ARPES below 1K, International Workshop on Strong Correlations and Angle-Resolved Photoemission Spectroscopy, Zuerich/ Schweiz, 19.-24.7.09 (2009).
- 10) S. Borisenko, Highest resolution ARPES today and tomorrow, Kickoff Workshop on Adlershof's Future Light Source, HZ-Berlin, BESSY, Berlin, 18.-19.3.09 (2009).
- 11) S. Borisenko, Exploring the limits of condensed matter physics with 1-cubed ARPES facility, Invited talk, Scienta Seminar, Moscow/ Russia, 19.-20.10.09 (2009).
- 12) S. Borisenko, ARPES of superconductors, Seminar Physics Department and INFM Coherencia Laboratory, University of Salerno/ Italy, 11.9.09 (2009).
- 13) S. Borisenko, High-resolution low-temperature ARPES of the collective quantum phenomena in solids, International Conference on Electronic Spectroscopy and Structure, Nara/ Japan, 6.-10.10.09 (2009).
- 14) S. Borisenko, High resolution ARPES on superconductors and related compounds, 2nd Workshop LNLS-2 New Source: Scientific Case, Campinas/ Brazil, 27.-28.8.09 (2009).
- 15) S. Borisenko, ARPES on superconductors, Superconductors by the Mediterranean Sea: Classic and Novel Materials, Electronic States and Critical Properties, Alghero, Sardinia/ Italy, 7.-11.9.09 (2009).
- 16) S. Borisenko, High resolution ARPES on superconductors and related compounds, 2nd Workshop LNLS-2 New Source: Scientific Case, Campinas/ Brazil, 27.-28.8.09 (2009).
- 17) B. Buechner, Superconductivity and Magnetism in $\text{LaO}_{1-x}\text{F}_x\text{FeAs}$, APS March Meeting, Pittsburgh/ USA, 16.-20.3.09 (2009).
- 18) B. Buechner, Magnetic and electronic properties of iron arsenide superconductors, Orbital 2009, Berlin, 7.-8.10.09 (2009).
- 19) B. Buechner, Supraleitung und Magnetismus in FeAs-Verbindungen, Physikalisches Kolloquium der Universitaet Wuppertal, 5.1.09 (2009).
- 20) B. Buechner, Magnetism on the nanometer scale: from stripes to magnetic molecules, Seminarvortrag, Saint-Gobain-Recherche, Cedex/ Frankreich, 11.6.09 (2009).
- 21) B. Buechner, Hochtemperatursupraleitung in Eisen-Arsen-Verbindungen, Physikalisches Kolloquium, Universitaet Wuerzburg, 2.2.09 (2009).
- 22) B. Buechner, Quantum ground states in low dimensional oxides, European Perspectives of German-Russian Scientific Cooperation, Moskau/ Russland, 25.2.09 (2009).
- 23) B. Buechner, The iron age of high temperature superconductivity, Festkoerperkolloquium der Fakultaeet Physik der TU Muenchen, 4.6.09 (2009).
- 24) B. Buechner, The iron age of high temperature superconductivity, Physikalisches Kolloquium, TU Chemnitz, 27.5.09 (2009).
- 25) B. Buechner, Magnetic and electronic properties of iron pnictides, M2S-IX, Tokio/ Japan, 7.-12.9.09 (2009).
- 26) B. Buechner, Electronic properties of pnictide superconductors, ICMR Summer School on Novel Superconductors, University of California, Santa Barbara/ USA, 2.-15.8.09 (2009).
- 27) B. Buechner, Magnetism and superconductivity in FeAs-superconductors, Brookhaven National Laboratory, New York / USA, 12.3.09 (2009).
- 28) B. Buechner, Electronic and magnetic properties of FeAs superconductors, Invited Talk, Universitaet Augsburg, 20.10.09 (2009).
- 29) B. Buechner, Phase diagram of pnictide superconductors; Interplay between magnetism, structure and superconductivity, ICMR Summer School on Novel Superconductors, University of California, Santa Barbara/ USA, 2.-15.8.09 (2009).
- 30) B. Buechner, Intrinsische Ladungsinhomogenitaet, Seminar an der Johannes Gutenberg Universitaet Mainz, 18.2.09 (2009).
- 31) B. Buechner, Iron age of high temperature superconductivity, Condensed Matter Seminar, Universitaet Groningen/ Netherlands, 17.4.09 (2009).
- 32) B. Buechner, Magnetism on the nanometer scale: From stripes to magnetic molecules, Ohio State University Columbus/ USA, 11.3.09 (2009).
- 33) M. Calin, J. Das, L.-C. Zhang, C. Ghinea, C. Filipoiu, J. Eckert, Strengthening of multi-component Ti-based glass-forming alloys by microstructure design, WPI-Europe Workshop on Metallic Glasses and Related Materials, Grenoble/ France, 25.-28.8.09 (2009).
- 34) C. Deneke, Hybrid micro- and nanotubes: How thin membranes form three-dimensional micro- and nanostructures, Seminar, Brazilian Synchrotron Light Laboratory (LNLS), Campinas/ Brazil, 09.11.09 (2009).
- 35) K. Doerr, Reversible strain experiments on strongly correlated oxide films, Seminarvortrag, (C. Joofl, C. Volkerts), Universitaet Goettingen, 8.1.09 (2009).

- 36) K. Doerr, Magnetolectric effect controlled by piezoelectric substrates, 6th International Conference on Magnetolectric Interaction Phenomena in Crystals (MEIPIC-6), Santa Barbara/ USA, 27.1.09 (2009).
- 37) K. Doerr, Multi-phase multiferroics, Tutorial zur DPG-Fruehjahrstagung des AK Festkoerperphysik, Dresden, 20.3.09 (2009).
- 38) K. Doerr, Physics of spin-polarized oxides, Tutorial, W.-E. Heraeus-Seminar "Nanoscale Phenomena in Oxides", Bad Honnef, 3.-6.8.09 (2009).
- 39) K. Doerr, Multi-phase multiferroics, Workshop, Martin-Luther-Universitaet Halle-Wittenberg, Wittenberg, 16.4.09 (2009).
- 40) K. Doerr, Dehnungs- und Grenzflaecheneffekte in duennen Schichten hochkorrelierter Oxide, Vortrag an der Universitaet Mainz, 16.2.09 (2009).
- 41) K. Doerr, Piezoelectric control of epitaxial strain in oxide heterostructures and GaAs quantum dots, Seminarvortrag, (CNMS, H. M. Christen) Oak Ridge National Laboratory, TN/ USA, 29.10.09 (2009).
- 42) K. Doerr, Reversible strain experiments on strongly correlated oxide films, Seminarvortrag, (H. v. Loehneysen), Forschungszentrum Karlsruhe, 19.2.09 (2009).
- 43) K. Doerr, Magnetolectric approaches in spintronics, Tutorial, W.-E. Heraeus-Seminar "Nanoscale Phenomena in Oxides", Bad Honnef, 3.-6.8.09 (2009).
- 44) L. Dunsch, The nitride cluster fullerenes : Non-IPR cages and beyond, Vortrag am State Key Laboratory for Physical Chemistry of Solid Surfaces, University of Xiamen/ China, 16.8.09 (2009).
- 45) L. Dunsch, The world of endohedral fullerenes, Vortrag am Dep. of Materials Science and Engineering, University of Science and Technology of China, Hefei/ China, 14.8.09 (2009).
- 46) L. Dunsch, The world of endohedral fullerenes, Symposium "Le carbon dans sous ses etats", IPCMS, University of Straflburg, Straflbourg/ France, 13.10.09 (2009).
- 47) L. Dunsch, In situ spectroelectrochemistry - A great challenge for nanostructure studies, Vortrag am Dep. of Materials Science and Engineering, University of Science and Technology of China, Hefei/ China, 15.8.09 (2009).
- 48) L. Dunsch, Recent advances in endohedral fullerene research, Vortrag am Institute of Chemistry, Chineses Academy of Sciences, Peking/ China, 19.8.09 (2009).
- 49) J. Eckert, Bulk metallic glasses and composites: The link between structure and deformability, 7th International Conference on Bulk Metallic Glasses (BMG VII), Busan/ Korea, 3.11.09 (2009).
- 50) J. Eckert, Bulk glassy composites: Phase formation and mechanical properties, Global Research Laboratory Korea - Germany Workshop on Bulk Metallic Glass and Nano-Structured Materials, Seoul/ Korea, 29.4.09 (2009).
- 51) J. Eckert, Neue Materialien auf der Basis metastabiler Phasen, Materialwissenschaftliches Kolloquium, Universitaet Stuttgart, 21.7.09 (2009).
- 52) J. Eckert, Heterostructured ultrafine and glassy alloys - Recent results, design strategies and deformation behavior, WPI-AIMR Annual Workshop 2009, Miyagi-Zao/ Japan, 6.3.09 (2009).
- 53) J. Eckert, Phase formation and properties of nanostructured and glassy metallic materials, Universitaet Wien/ Oesterreich, 16.7.09 (2009).
- 54) J. Eckert, Structurally inhomogeneous ultrafine and glassy alloys, Department of Materials Science and Engineering, North Carolina State University, Raleigh, NC/ USA, 12.2.09 (2009).
- 55) J. Eckert, Bulk metallic glasses and composites with different length-scale heterogeneities, Workshop on Future Directions in Bulk Metallic Glasses, Beijing/ China, 3.7.09 (2009).
- 56) J. Eckert, Amorphe und nanostrukturierte Materialien als Basis fuer neue Hochleistungswerkstoffe, Institut fuer Werkstofftechnik, Universitaet Bremen, 29.1.09 (2009).
- 57) J. Eckert, High-strength Al-based alloys and composites, 16th International Symposium on Metastable, Amorphous and Nanostructured Materials, (ISMANAM 2009), Beijing/ China, 6.7.09 (2009).
- 58) J. Eckert, Metallische Werkstoffe der Zukunft - schon heute, Forum Neue Technologien, Voith AG, Heidenheim, 15.1.09 (2009).
- 59) J. Eckert, From BMGs to composites: The role of heterogeneities on improving the mechanical properties of metastable alloys, Workshop on Amorphous Metals and Composites - Current Status and Future Directions, University of Melbourne/ Australien, 19.11.09 (2009).
- 60) J. Eckert, Materialdesign fuer innovative Werkstoffe mit erweitertem Eigenschaftsspektrum, 13. Dresdner Leichtbausymposium 2009, Dresden, 18.6.09 (2009).
- 61) J. Eckert, Metallic glasses and composites - Development of high performance materials based on metastable phases, Seminar am Institut fuer Materialphysik im Weltraum, Deutsches Zentrum fuer Luft- und Raumfahrt e.V. (DLR), Koeln, 28.9.09 (2009).
- 62) J. Eckert, Current status of research on amorphous metals, Workshop on Amorphous Metals and Composites - Current Status and Future Directions, University of Melbourne/ Australien, 19.11.09 (2009).
- 63) J. Eckert, Grundlagen und Anwendungen metallischer Glaeser und Composite, VDMA Arbeitskreis Material Roadmap Expertenworkshop, Frankfurt, 3.4.09 (2009).
- 64) J. Eckert, How to improve the deformability of bulk metallic glasses, 2009 TMS Annual Meeting and Exhibition, Symposium "Bulk Metallic Glasses (VI)", San Francisco/ USA, 18.2.09 (2009).

- 65) J. Eckert, Processing, mechanical properties and applications of glassy alloys and composites, European Congress and Exhibition on Advanced Materials and Processes (EUROMAT 2009), Symposium B13 - "Metallic Glasses", Glasgow/ UK, 8.9.09 (2009).
- 66) J. Eckert, Metastabile Phasen - Von den Grundlagen zu Anwendungen, Werkstoffwissenschaftliches Kolloquium, Universitaet Erlangen-Nuernberg, 27.10.09 (2009).
- 67) J. Eckert, Ultrafine and glassy alloys with improved deformability, Korea - Germany Joint Workshop on Amorphous - Nanostructured Materials, Ulsan/ Korea, 27.4.09 (2009).
- 68) J. Eckert, Bulk metallic glasses and composites for engineering applications, Tewkesbury Lecture, University of Melbourne/ Australien, 19.11.09. (2009).
- 69) J. Eckert, Bulk metallic glasses and hierarchical composites: Tailoring of properties for engineering applications, Global Research Laboratory Korea - Germany Workshop on Bulk Metallic Glass and Nano-Structured Materials, Dresden, 18.12.09 (2009).
- 70) H. Ehrenberg, Li-Ionenbatterien: Perspektiven und materialwissenschaftliche Herausforderungen, Anorganisch-chemisches Kolloquium, Universitaet zu Koeln, 2.12.09 (2009).
- 71) H. Ehrenberg, Werkstoffliche Herausforderungen in Li-Batterien, Symposium Hochleistungskeramik 2009 des Gemeinschaftsausschusses der DKG und der DGM, Eurogress Aachen, 26.3.09 (2009).
- 72) H. Ehrenberg, Li-Ionenbatterien: Perspektiven und materialwissenschaftliche Herausforderungen, Anorganisch-chemisches Kolloquium, TU Berlin, 23.9.09 (2009).
- 73) H. Ehrenberg, Phosphoolivine LiMPO₄ (M=Mn,Fe,Co) cathodes in Li-ion batteries: properties, mechanism and new composite concepts, Vortrag an der Justus-Liebig-Universitaet Giessen, 3.2.09 (2009).
- 74) H. Ehrenberg, N.N. Bramnik, W. Jaegermann, J.J. Schneider, Fatigue in LiCoPO₄ cathodes for Li-ion batteries and new composite concepts, Euromat, Glasgow/ UK, 7.-10.9.09 (2009).
- 75) H. Eschrig, *The electronic structure of layered iron chalcogenides/pnictides*, Predictive Capabilities for Strongly Correlated Systems, Oak Ridge/ USA, 14.-16.11.08 (2008).
- 76) H. Eschrig, The electronic structure of layered iron chalcogenides/pnictides, National Research Laboratory (NRL), Washington DC/ USA, 26.2.09 (2009).
- 77) H. Eschrig, K. Koepf, Electronic structure of layered iron chalcogenides/pnictides, Seminar of the Center for Computational Materials Science, Universitaet Wien/ Oesterreich, 22.6.09 (2009).
- 78) D. Evtushinsky, Bridging angle-resolved photoemission spectroscopy (ARPES) with other experiments: connection to muon spin rotation (μ SR) in Ba_{1-x}K_xFe₂As₂, Joint Users' Meeting of PSI 2009, Villigen/ Switzerland, 12.-13.10.09 (2009).
- 79) D.V. Evtushinsky, D.S. Inosov, V.B. Zabolotnyy, A.A. Kordyuk, T.K. Kim, M. Knupfer, B. Buechner, A.N. Yaresko, G.L. Sun, C.T. Lin, M.S. Viazovska, A. Varykhalov, S.V. Borisenko, Bridging ARPES with other experiments: electronic structure of iron arsenides, Seminar of Keimer's department, MPI-FKF Stuttgart, 3.-5.12.09 (2009).
- 80) S. Faehler, On the role of interfaces in epitaxial magnetic shape memory film, 2nd International Conference on Ferromagnetic Shape Memory Alloys, Bilbao/ Spain, 1.-3.7.09 (2009).
- 81) S. Faehler, Magnetism and martensitic transitions in epitaxial magnetic shape memory films, Seminar, Institute of Physics, Czech Academy of Sciences, Prag/ Tschechische Republik, 1.4.09 (2009).
- 82) S. Faehler, Epitaxial magnetic shape memory films, European Symposia on Martensitic Transformation ESOMAT 2009, Prag/ Tschechische Republik, 8.-11.9.09 (2009).
- 83) J. Fink, Many-body properties of solids studied by angle-resolved photoemission spectroscopy (ARPES): application to conventional and unconventional superconductors, Kolloquiumsvortrag, Modena/ Italy, 19.3.09 (2009).
- 84) J. Fink, Stripes in high-T_c superconductors as detected by resonant soft-x-ray scattering, Seminarvortrag TIFR, Mumbai/ Indien, 19.11.09 (2009).
- 85) J. Fink, Electronic excitations in correlated systems studied by inelastic electron scattering, Electronic excitations studied by non-resonant inelastic x-ray scattering at PETRA III, Hamburg, 7.-8.5.09 (2009).
- 86) J. Fink, Many-body properties of solids studied by angle-resolved photoemission spectroscopy: application to conventional and unconventional superconductors, Kolloquiumsvortrag TIFR, Mumbai/ Indien, 18.11.09 (2009).
- 87) J. Fink, Many-body properties of solids studied by (time-dependent) angle-resolved photoemission spectroscopy : application to conventional and unconventional superconductors, MSM 09, Kolkata/ Indien, 11.-14.11.09 (2009).
- 88) J. Fink, Angular resolved photoemission spectroscopy, a probe for the many-body properties of solids, KKR and Spectroscopy – Hands-on Course 2009, Muenchen, 24.-26.6.09 (2009).
- 89) U. Gaitzsch, M. Poetschke, S. Roth, L. Schultz, Magnetostrain in polycrystalline Ni-Mn-Ga, ICASM Konferenz, TCE Madurai/ Indien, 7.-9.1.09 (2009).
- 90) A. Gebert, Effect of surface finishing and mechanically induced defects on the corrosion of bulk metallic glasses, ISMANAM 2009 Conference, Beijing/ China, 5.-9.7.09 (2009).
- 91) A. Gebert, Effect of structural and mechanical defects on the corrosion behavior of Zr-based bulk metallic glasses and composites, Kolloquium, 1. Physikalisches Institut, Universitaet Goettingen, 12.1.09 (2009).
- 92) J. Geck, EELS and RIXS studies on doped manganites, Workshop, Stanford/ USA, 29.7.-6.8.09 (2009).

- 93) H.-J. Grafe, G. Lang, F. Hammerath, K. Manthey, D. Paar, B. Buechner, NMR studies of superconducting LaO_{1-x}FxFeAs, Kick-off meeting of the SOLeNeMaR EU project of the Department of Physics, University of Zagreb/ Croatia, 19.-20.3.09 (2009).
- 94) M. Grobosch, M. Knupfer, Charge-injection barriers at realistic metal/ organic interfaces: metals become faceless, Printed Electronics Europe 2009, Dresden, 7.-8.4.09 (2009).
- 95) O. Gutfleisch, Magnetic materials and hydrides for energy efficient technology, Vortrag an der TU Hamburg-Harburg, 29.9.09 (2009).
- 96) O. Gutfleisch, Solid state energy efficient magnetic cooling and heating, Royal Institution of Great Britain, London/ UK, 7.9.09 (2009).
- 97) O. Gutfleisch, HDDR processing of NdFeB, International Workshop on Materials for a Sustainable Future, University of Birmingham/ UK, 11.-12.9.09 (2009).
- 98) O. Gutfleisch, Novel materials for energy efficient technologies, Kolloquium am Instituto de Ciencia de Materiales de Sevilla, Sevilla/ Spanien, 26.5.09 (2009).
- 99) O. Gutfleisch, J. Lyubina, M. Richter, Novel materials for room temperature magnetic cooling, 1st International Conference on Complex Metallic Alloys and their Complexity (C-MAC-1), Nancy/ France, 4.-7.10.09 (2009).
- 100) O. Gutfleisch, J. Thielsch, K. Gueth, J. Lyubina, T. Woodcock, B. Rellinghaus, L. Schultz, Advanced permanent magnets, Symposium on Magnetism for Sustainable Energy, InterMag 2009, Sacramento/ USA, 4.-8.5.09 (2009).
- 101) O. Gutfleisch, J. Thielsch, K. Gueth, J. Lyubina, T. Woodcock, L. Schultz, Advanced permanent magnets for energy applications, UK Magnetics Society, Workshop on Advanced Magnetic Materials and their Applications, Vacuumschmelze GmbH, Hanau, 12.-13.10.09 (2009).
- 102) V. Haehnel, H. Schloerb, S. Faehler, L. Schultz, Electrodeposition and magnetic properties of nanowire arrays in self-organized aluminum oxide templates, Juelich Centre for Neutron Science JCNS Seminar, Garching bei Muenchen, 21.10.09 (2009).
- 103) H. Hermann, Modellierung von fulleren-basierten Schichten mit optimierten Eigenschaften, DGM Arbeitskreis-Workshop, Dresden, 24.6.09 (2009).
- 104) H. Hermann, Theoretische Ansätze fuer ultralow-k Materialien, Insitutsseminar, Universitaet Cottbus, 6.7.09 (2009).
- 105) R. Hermann, G. Gerberth, J. Priede, A. Krauze, G. Behr, B. Buechner, Convectional controlled crystal-melt interface using two-phase radio-frequency electromagnetic heating, 6th International Conference HTC 2009, Athen/ Greece, 6.-10.5.09 (2009).
- 106) C. Hess, The intrinsic electronic phase diagram of iron-pnictide superconductors, SFB-Seminar, II. Physikalisches Institut, Universitaet Koeln, 29.4.09 (2009).
- 107) C. Hess, The intrinsic electronic phase diagram of iron-pnictide superconductors, Study of Matter at Extreme Conditions - SMEC 2009, Miami/ USA, 28.3.-1.4.09 (2009).
- 108) C. Hess, Anregungen von Spin und Ladung, Seminarvortrag, Technische Universitaet Wien/ Oesterreich, 6.5.09 (2009).
- 109) V. Hoffmann, Neue Entwicklungen in der analytischen Glimmentladungsspektrometrie, Institutsseminar, FH Senftenberg, 19.5.09 (2009).
- 110) V. Hoffmann, V. Efimova, D. Klemm, M. Voronov, J. Eckert, Gepulste Glimmentladungen - von den Grundlagen zu den Anwendungen, 15. Tagung Festkoerperanalytik, Chemnitz, 12.-16.7.09 (2009).
- 111) R. Huehne, High temperature superconductors: properties and applications, Tutorial auf der "14th International Conference on RF Superconductivity" Dresden und Berlin, 17.-25.10.09 (2009).
- 112) R. Huehne, J. Eickemeyer, U. Gaitzsch, T. Thersleff, J. Freudenberger, L., Holzapfel, B. Schultz, O. de Haas, V.S. Sarma, M. Weigand, J.H. Durrell, Application of textured highly alloyed Ni-W tapes for coated conductors, International Workshop on Coated Conductors for Applications, CCA 2009, Barcelona/ Spain, 22.-29.11.09 (2009).
- 113) R. Huehne, J. Eickemeyer, T. Thersleff, R. Haenisch, B. Holzapfel, V.S. Sarma, M. Weigand, J. Durrell, O. de Haas, L. Schultz, Application of textured highly alloyed Ni-W tapes for coated conductor architectures, CEC-ICMC 2009, Tucson, Arizona/ USA, 28.6.-2.7.09 (2009).
- 114) V. Kataev, Multifrequency ESR spectroscopy of the heavy fermion compound YbRh₂Si₂ in strong magnetic fields, Seminar at the Molecular Photoscience Research Center, Kobe University, Kobe/ Japan, 4.9.09 (2009).
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- 252) F. Wolny, Kohlenstoffnanoroehren - Vielfalt in Form und Funktion, Ausstellung "nano and art", Kugelhaus am Wiener Platz, Dresden, 23.9.09 (2009).
- 253) A. Wolter, Magnetic carbon nanotubes for biomedical applications, "1ere Ecole Nanomateriaux et Applications biomedicales" Winterschule in Bizerte/ Tunesien, 2.-6.11.09 (2009).
- 254) T.G. Woodcock, O. Gutfleisch, Multi-phase local texture analysis in NdFeB sintered magnets, Vortrag am Max Planck Institut fuer Eisenforschung, Duesseldorf, 30.11.09 (2009).
- 255) S. Wurmehl, Nuclear magnetic resonance applied to spin polarized Heusler compounds, DFG-JST Treffen 2009, Kyoto/ Japan, 19.-25.1.09 (2009).
- 256) S. Wurmehl, Nuclear magnetic resonance applied to spin polarized Heusler compounds, Vortragsbeitrag zum Dreikoenigstreffen der Fachgruppe Magnetismus der DPG, Bad Honnef, 5.-7.1.09 (2009).
- 257) S. Wurmehl, Spin polarized Heusler compounds, MRS Fall Meeting, Boston/ USA, 30.11.-4.12.09 (2009).

Patents

Issues of Patents 2009

- DE 101 63 517 Resonatorfilterkaskade
Inventors: G. Martin et al.
- DE 103 01 722 Verfahren zur Herstellung endohedraaler Fullerene
Inventors: L. Dunsch, P. Georgi, F. Ziegs, H. Zöller
- DE 198 37 743 Akustischer Oberflächenwellenfilter
Inventor: G. Martin
- DE 10 2006 027 060 Oszillatorkreis mit akustischen Eintor-Oberflächenwellenresonatoren
Inventors: G. Martin et al.
- DE 10 2008 001 000 Schichtsystem für Elektroden
Inventor: S. Menzel

Patent Applications 2009

- 10903 Isolationsmaterial für integrierte Schaltkreise
Inventors: H. Hermann et al.
- 10907 Verfahren zur Steuerung der magnetischen Hyperthermie
Inventors: R. Klingeler, Y. Krupskaya, B. Büchner
- 10908 Wandler mit natürlicher Unidirektionalität für akustische Oberflächenwellen
Inventors: G. Martin, M. Weihnacht, S. Biryukov, A. Darinski et al.
- 10909 Verfahren und Anordnung zum Anregen von elektro-akustischen Aktuatoren
Inventors: R. Brünig, K. Mensel, H. Schmidt
- 10910 Strangförmiges Kompositleitermaterial
Inventor: S. Menzel
- 10912 Unidirektionaler Wandler für akustische Oberflächenwellen
Inventor: G. Martin et al.
- 10913 Verfahren zur Ermittlung elektrischer und mechanischer Materialeigenschaften
Inventors: G. Guhr, R. Brünig et al.
- 10914 Magnetisches Legierungsmaterial und Verfahren zu seiner Herstellung
Inventors: J. Lyubina, O. Gutfleisch
- 10915 Bauelement aus einem ferromagnetischen Formgedächtnismaterial und dessen Verwendung
Inventors: S. Fähler, M. Thomas, O. Heczko, J. Buschbeck, J. Mc Cord
- 10918 Peltier-Seebeck basiertes thermoelektrisches Bauelement und Verfahren zu seiner Herstellung
Inventors: T. Dienel, J. Schumann, A. Rastelli, O.G. Schmidt
- 10919 Thermoionisches Bauelement und Verfahren zu seiner Herstellung
Inventors: T. Dienel, J. Schumann, A. Rastelli, O.G. Schmidt
- 10924 Metastabile Legierungen und Verfahren zu ihrer Herstellung
Inventors: J. Eckert, S. Pauly, U. Kühn

PhD Theses 2009

Francesca Cavallo	Strain driven architecture of Si-based nanomembranes
Thomas Dienel	Molekulare Systeme im Wechselspiel von Struktur und Ladung
Fei Ding	Quantum device oriented researches of semiconductor micro-/ nanostructures
Antje Elsner	Computergestützte Simulation und Analyse zufälliger dichter Kugelpackungen
Sebastian Engel	Chemisch deponierte Schichtsysteme zur Realisierung von YBCO-Bandleitern
Mandy Grobosch	Experimentelle Bestimmung der elektronischen Eigenschaften anwendungsrelevanter Grenzflächen organischer Halbleiter mittels Photoelektronenspektroskopie
Ingo Hellmann	Magnetische und elektronische Eigenschaften von Übergangsmetalloxid-Nanostrukturen
Marko Herrmann	Einfluss von Präparation und Dotierung auf die supraleitenden Eigenschaften in mechanisch legierten Magnesium-Diborid
Denis Klemm	Analyse dünner Schichten mit der optischen Glimmentladungsspektroskopie
Ah-Ram Kwon	Epitaxial Nd-Fe-B films: Growth, texture, magnetism and the influence of mechanical elongation
Ryan Y. W. Lai	Magnetic Microstructure and Actuation Dynamics of NiMnGa Magnetic Shape Memory Materials
Andreas Nilsson	BSCCO superconductors processed by the glass-ceramic route
Anreia Ioana Popa	Electrochemistry and magnetism of Li-doped transition metal oxides
Franziska Schäffel	Synthesis, characterization and modification of carbon nanomaterials
Uwe Schaufuß	Hochfeld/Hochfrequenz-Elektronenspin-Resonanz an Übergangsmetallverbindungen mit starken elektronischen Resonanzen
Nils Scheerbaum	Magnetische NiMnGa-Komposite
Nadja Wizent	Hochdruckkristallzüchtung ausgewählter Oxidverbindungen
Kostyantyn Zagorodniy	Molekularer Entwurf neuer Isolationsmaterialien für mikroelektronische Anwendungen
Tim Zander	Herstellung und Eigenschaften von Metall/Halbleiter-Übergittern und Mikroringresonatoren
Hongbin Zhang	Relativistic density functional treatment of magnetic anisotropy
Lijuan Wang	Growth and spectroscopic characterization of self-assembled lateral quantum dot molecules
Kim Jong Woo	Multiferroic hexagonal HoMnO ₃ films

Diploma and Master Theses 2009

Naveen K. Abraham	Experimental Preparation of Theoretically Designed Insulating Materials for Future Microelectronic Applications
Leif Bader	Mikrostrukturelle und mechanische Charakterisierung von Fe-C-(Cr)-(Mo)-(V)-Legierungen
Dirk Bombor	Konstruktion eines Rastertunnelmikroskops für variable Temperaturen und Oberflächenuntersuchungen an supraleitenden Eisenpniktiden
Maria Dimitrakopoulou	Synthesis and Characterization of Silicon Nanowires
Christian Görner	Konzept zum Umbau einer Walzanlage für das Walzen von Blechen aus amorphen Metalllegierungen (BA)
Veronika Hähnel	Elektrochemisch hergestellte Fe-Nanodrähte: Struktur, Morphologie und magnetische Eigenschaften
Wenbo Han	Functionalisation of carbon nanotubes for application as sensor materials
Alexander Kauffmann	Eisenpniktidsupraleiter in gepulsten Magnetfeldern bis 50 T
Roberto Kraus	Elektronen-Energie-Verlust-Spektroskopie an TiOCl
Maria Krautz	Realstruktur und antiferromagnetische Eigenschaften einer technischen FeMnNiCr-Legierung
Steve Kupke	Elektrischer Transport an freistehenden eisengefüllten, mehrwandigen Kohlenstoffnanoröhren
Jens Liebich	Präparation von Festbett-Katalysatoren auf Basis von Fe, Co, Mo und V für die Herstellung von SWCNTs/DWCNTs
Inge Lindemann	Einfluss eines äußeren Magnetfeldes auf die Anordnung von Cu-Au-Nanopartikeln
Daniel Lorenz	Numerische Simulation der zellularen Erstarrung von Silizium
Tom Marr	Texturentwicklung von Ni-5at%W Rohrmaterial
Rafael Gregorio Mendes	Magnetic Force Microscopy of Nanomagnets
Enrico Mund	Synthese und Charakterisierung von Wolfram- Nanodrähten und deren Verwendung in metallischen Glasmatrix-Kompositen
Friedrich Roth	Untersuchung der optischen Eigenschaften von Supraleitern aus der Gruppe der Eisenarsenide
Christian Schmidt	Photoemissionsspektroskopie an Übergangsmetall-Phthalocyaninen
Tobias Schneider	Entwicklung und Umsetzung einer Herstellungstechnologie für Sensorelemente aus einer amorphen Zirkon-Basislegierung
Sailaja Tetali	Growth enhancement of Carbon Nanotubes using O ₂ and H ₂ by using Laser Ablation method
Mario Tränkner	Quantitative Bestimmung nanoskaliger Sr _{n+1} Ti _n O _{3n+1} -Ruddlesden-Popper Phasen mittels Analyse von TEM-Messungen
Zimo Wang	Functionalisation of carbon nanotubes for biomedical applications

Calls and Awards 2009

Calls on Professorships

Dr. Rüdiger Klingeler	Univ. Heidelberg
Prof. Dr. Bernd Büchner	Univ. Mainz
Prof. Dr. Jürgen Eckert	Univ. Stuttgart

Awards

Prof. Dr. Jürgen Eckert	Gottfried-Wilhelm-Leibniz-Prize 2009 of the DFG
Prof. Dr. Ludwig Schultz	FEMS Gold Medal 2009
Dr. h. c. Rolf Pfrengle	Honorary Doctorate of the Slovakian TU Bratislava
Alexander Solovev	DSM Science and Technology Award 2009
Dr. Christian Kramberger	Prize of the Dresdner Gesprächskreis der Wirtschaft und der Wissenschaft e.V. 2009
Franziska Wolny	First Prize of the Nano&Arts contest
Claudia Hürnich	Second Prize of the Science as Art Competition at the 2009 MRS Fall Meeting in Boston

Publication and Poster Awards

Uta Kühn et al.	Best Poster Award EUROMAT 2009 in Glasgow
Ute Queitsch	Best PhD Poster Award, Trends in Nanotechnology 2009, Barcelona 7-11 September 2009
Jakub Koza	Best Poster Award of the International Conference on Electromagnetic Processing of Materials (EPM 2009)
Ahmed El-Gendy	Best Poster Award of the SFB 491 Summer School on Nanomagnetism
Maria Sparing	Best Poster Award EUCAS 2009 in Dresden

IFW Awards

Dr. Christian Hess	IFW Research Award 2009
Dr.-Ing. Franziska Schäffel	Deutsche Bank Junior Award 2009 for the best PhD thesis
Dr. Mark Rümmeli	IFF Research Award 2009
Dr. Jens Freudenberger	IMW Research Award 2009
Dr. Sergio Scudino	IKM Research Award 2009
Dr. Armando Rastelli	IIN Research Award 2009
Dr. Manuel Richter	ITF Research Award 2009

Conferences and colloquia 2009

Conferences

Kick-Off Meeting of the EU project DIVERSITY

January 16–17, 2009

Chairman: Dr. h.c. R. Pfengle (IFW Dresden)

30 Participants

Deutsche Kristallzüchtungstagung

March 4 - 6, 2009 in the IFW Dresden, Germany

Chairman: Dr. Behr (IFW Dresden)

100 Participants

DPG Frühjahrstagung der Sektion Kondensierte Materie 2009

March 22 - 27, 2009 in Dresden, Germany

Chairman: Prof. L. Schultz (IFW Dresden)

4500 participants

XXIII International EPR Seminar

April 23 - 25, 2009 in Bad Gottleuba, Germany

Chairman: Prof. L. Dunsch (IFW Dresden), Prof. V. Brezová (SK), Dr.P.Rapta (SK)

50 participants

Spin Caloritronics

Mai 12 - 15, 2009 in the IFW Dresden, Germany

Chairpersons: Prof. B. Büchner (IFW Dresden), Prof. C. Felser (Univ. Mainz)

EUCAS 2009: 9th European Conference on Applied Superconductivity

September 13 - 17, 2009 in Dresden, Germany

Chairman: Prof. L. Schultz (IFW Dresden)

850 participants

Kick-off meeting of the DFG Priority Program 1458 "HTS in Fe Pnictides"

July 22, 2009 in the IFW Dresden, Germany

Chairperson: Prof. Dr. B. Büchner (IFW Dresden)

IFW Colloquia

Prof. Albert van den Berg, Univ. of Twente, Netherlands, Lab-on-a-Chip: from micro/nanofluidic research-platform to biomedical applications, 08.01.2009

Prof. Klaus Muellen, Max-Planck Institute for Polymer Research, Mainz

Molecular Electronics, 15.01.2009

Prof. Angel Rubio, Univ. del Pais Vasco, Spain, Excited state dynamics of nanostructures and biomolecules within time-dependent DFT, 22.01.2009

Prof. Richard Berndt, Univ. Kiel, Conductance of single atoms, clusters and molecules, 26.02.2009

Prof. Jörg J. Schneider, TU Darmstadt, Carbon nanotubes and inorganic oxides: Synthesis and functional material properties, 02.04.2009

Prof. Atac Imamoglu, ETH Zürich, Cavity-QED with a single quantum dot in a nano-cavity, 16.04.2009

Prof. Jürgen Janek, Univ. Gießen, Micro- and Nano-Ionics - Interfaces of solid electrolytes, 23.04.2009

Prof. Ravi Silva, Univ. of Surrey, Carbon Nanotubes: Developing a Platform for Physical and Biological Applications, 30.04.2009

Prof. Klaus Kern, MPI für Festkörperforschung, Stuttgart, Metal-Organic Nanocontacts, 07.05.2009

Prof. Anke Rita Pyzalla, Helmholtz-Zentrum Berlin für Materialien und Energie GmbH

Material characterization using neutrons and synchrotron radiation, 25.06.2009

Prof. Quentin A. Pankhurst, London Centre for Nanotechnology, Univ. College London

Biomedical applications of nanoscale magnetic materials, 02.07.2009

Prof. Peter Littlewood, Cambridge Univ., A new condensate of matter and light: Bose Einstein Condensation of Polaritons, 29.10.2009

Prof. Joachim Spatz, MPI für Metallforschung Stuttgart, Molecular engineering of cellular environments, 05.11.2009

Prof. John A. Rogers, Univ. of Illinois, Materials for Stretchable Electronics: From Hemispherical Digital Imagers to Devices for Cardiac Electrophysiology, 19.11.2009

Prof. Ferdi Schüth, Max-Planck-Institut für Kohlenforschung, Design von funktionalen Nanomaterialien, 10.12.2009

IFW Winterschool on low dimensions in Oberwiesenthal, January 18-21, 2009

Honorary colloquium on occasion of the award of Prof. Dr. Jürgen Eckert with the Leibniz-Prize 2009, 06.04.2009

Honorary colloquium on the occasion of the 60th anniversary of Dr. h. c. Rolf Pfeifrele, 21.04.2009

Opening of the IFW-Colloquium in the winter terms with talks of the prizewinners of the Research-Awards 2009 of the IFW's Institutes, Oct. 15, 2009

Seminars of the IFW's Institutes

Joint Seminars

Prof. Mostovoy Maxim Vladimirovich Vladimirovich, Univ. of Groningen, Magnetoelectric Coupling in Frustrated Magnets, 15.01.2009, Joint Seminar

Christoph Bruch, Max Planck Digital Library, Will open access change scientific publishing? 27.04.2009, Joint Seminar

Prof. Peter Abbamonte, Univ. of Illinois at Urbana-Champaign, Charge accumulation at La CuO-LaSrCuO₄ interfaces observed with resonant soft x-ray scattering, 24.11.2009, ITF-IFF-Seminar

Dr. John Hill, Brookhaven National Laboratory, Hard X-ray RIXS, polarization dependence and orbitons, 02.12.2009, ITF-IFF-Seminar

Dr. Giacomo Ghiringhelli, Politecnico di Milano, Electronic and magnetic excitations studied by high resolution soft x-ray resonant inelastic scattering, 09.12.2009, ITF-IFF-Seminar

Dr. Stephan Roche, TU Dresden & CEA, Institute of Nanosciences and Cryogenics Grenoble, Carbon-based Nanosciences & Nanotechnologies: Nanotubes and Graphene at the Heart, 21.07.2009, Joint Seminar IFF and TU Dresden

IFF-Seminars

Prof. Jürgen Schnack, Univ. Bielefeld, Trends in Molecular Magnetism - A Personal Perspective, 22.01.2009

Prof. Bert Koopmans, Eindhoven Univ. of Technology, The Physics of Plastic Spintronics, 26.01.2009

Dr. Alexey Popov, IFW Dresden, Spectroelectrochemistry of fullerene derivatives, 23.02.2009

Prof. Yurii V. Kopaev, Lebedev Physics Institute, Russian Academy of Sciences, Moscow, Bordered superconducting state and the pseudogap, 24.02.2009

Prof. Andreas Hirsch, Univ. Erlangen-Nürnberg, Water-Solubility and Antioxidant Activity of Various Exohedral Fullerene Derivatives, 09.03.2009

Dr. Gerhard Jakob, Univ. Mainz, Thin films of Heusler compounds, 30.03.2009

Dr. Klaus Braun, Deutsches Krebsforschungszentrum Heidelberg, Behandlung von GBM-Zellen mit TMZ-Bioshuttles, 17.04.2009

Dr. John M. Tranquada, Brookhaven National Laboratory, Intertwined Spin, Charge, and Superconducting Orders in Cuprates, 20.04.2009

Prof. Jacques Jupille, Univ. Pierre et Marie Curie Paris, Growth and wetting at a glance, 21.04.2009

Prof. Kurt Westerholt, Ruhr-Univ. Bochum, Proximity effects in superconductor/ferromagnet thin film heterostructures, 08.06.2009

Dr. Philippe Moreau, Uni. de Nantes, Electron energy-loss spectroscopy to study electronic structures of materials: from lithium battery materials to perovskites, 15.06.2009

Prof. Andreas Hirsch, Univ. Erlangen-Nürnberg, Water-Solubility and Antioxidant Activity of Various Exohedral Fullerene Derivatives, 22.06.2009

Dr. Thomas Seyller, Univ. Erlangen-Nürnberg, Epitaxial graphene on SiC - a new material for carbon-based electronics, 24.06.2009

Dr. Giuseppe Cirillo, Univ. della Calabria, Functionalized Carbon Nanotubes with antioxidant properties, 29.06.2009

Prof. Dirk Morr, Univ. of Chicago, Pseudo-gap and Coexisting Phases in the Cuprate Superconductors, 24.07.2009

Prof. Wolfgang Windl, Ohio State Univ. Columbus, Electronic Structure Calculations of Materials: From Spin Lifetimes to Bulk Metallic Glasses, 28.07.2009

Prof. Patrick Woodward, Ohio State Univ., Complex Perovskites: Mining the periodic table for new functional materials, 31.07.2009

Dr. Steffen Sykora, TU Dresden, Microscopic approach to high-temperature superconductors within the t-J model, 31.08.2009

Dr. Danny Porath, Hebrew Univ. of Jerusalem, From bio-inspired systems for nanoelectronics to physico-inspired tools to study bio-systems, 08.09.2009

Prof. Junichi Kushibiki, Tokohu Univ. Sendai, Ultrasonic Micro-Spectroscopy Technology and its Recent Applications, 18.09.2009

Dr. Pedro M.F.J. Costa, Univ. of Aveiro, Portugal, In situ characterisation of filled carbon nanotubes: adding a sense of touch to TEM, 23.09.2009

- Dr. Wilhelm Auwärter, TU München, Looking at the interior of functional molecules: Tunneling microscopy and spectroscopy on adsorbed porphyrins, 09.10.2009
- Prof. Dieter Kölle, Univ. Tübingen, Microscopic Analysis of electric transport and noise in superconductors, 26.10.2009
- Dr. Dimitri Argyriou, Helmholtz-Zentrum Berlin, Is there a pseudogap in the Bi-layer manganites? 27.10.2009
- Dr. Paola Ayala, Univ. Wien, Substitutionally-Functionalized vs Metallicity-selected Single-Walled Carbon Nanotubes, 06.11.2009
- Dr. Sebastian Gönnerwein, Walther-Meißner-Institut, TU München, Magnetoelastic magnetization manipulation in ferromagnet/ferroelectric hybrids, 16.11.2009
- Prof. Oleg Sinyashin, A.E. Arbutov Institute of Organic and Physical Chemistry Kazan, Interplay between structure and molecular interactions in the complexes of phosphorus-sulfur containing compounds, 17.11.2009
- Prof. Chun-Ru Wang, Institute of Chemistry, Chinese Academy of Sciences, Several Novel Endohedral Metallofullerenes, 17.11.2009
- Dr. Thorsten Schmitt, Swiss Light Source, PSI Villingen, Resonant Inelastic Soft X-Ray Scattering in Quasi One Dimensional Cuprates, 26.11.2009
- Prof. Carita Kvarnström, Univ. of Turku, Spectroelectrochemistry of conducting polymers, 26.11.2009
- Dr. Dmitry Yakhvarov, A.E. Arbutov Institute of Organic and Physical Chemistry, Russian Academy of Sciences, Kazan, Russia, Electrochemical methods for new chemical technologies and material science, 27.11.2009
- Prof. Christopher Brett, Univ. of Coimbra, Portugal, Some recent achievements and future perspectives in electrochemistry, 01.12.2009
- Prof. Erich Kleinpeter, Univ. Potsdam, Spatial Magnetic Properties of Molecules Subjected to Anisotropic Effects of Functional Groups and Planar/Spherical (Anti)aromaticity, 03.12.2009
- Dr. Valentina Bisogni, ESRF Grenoble, Low energy excitations in cuprates: a resonant inelastic X-ray scattering investigation, 04.12.2009
- Dr. Katja Weichert, Max-Planck-Institut für Festkörperforschung Stuttgart, LiFePO₄ single crystals - electrochemical characterisation and defect chemistry, 07.12.2009
- Dr. Björn Bräuer, Stanford Univ. USA, Scanning transmission x-ray microscopy imaging of magnetic nanostructures and organic semiconductor devices, 14.12.2009
- Dr. Markus Kriener, Kyoto Univ. Japan, Superconductivity in the charge-carrier doped wide-gap semiconductors diamond, silicon, and silicon carbide, 18.12.2009

IMW-Seminars

- Prof. Andreas Mortensen, EPFL, Laboratory of Mechanical Metallurgy, Lausanne, Replicated open-pore microcellular aluminium: processing and properties 8.1.2009
- Prof. Eberhard Burkel, Univ. Rostock, Neue Materialien für den Cell-Material Dialogue und die Technik, 15.01.2009
- Prof. Ralf Wehrspohn, Fraunhofer-Institut für Werkstoffmechanik, Halle, Geordnete poröse Materialien und Anwendungen, 22.01.2009
- Jose M. Barandiaran; Volodymyr Chernenko; Jorge Feuchtwanger, Univ. del Pais Vasco, Ferromagnetic Shape Memory Effect, 04.02.2009
- Prof. Ibrahim Karaman, Texas A&M Univ., Recent Advances in Shape Memory Alloys, 20.02.2009
- Dr. Johann Schnagl, BMW Group München, Wasserstoff-Tanks, 23.04.2009
- Prof. Dietrich Wolf, Univ. Duisburg-Essen, Struktur und Dynamik von Nanopulvern, 04.05.2009
- Prof. Robert F. Singer, Univ. Erlangen - Nürnberg, Neue Materialien und Prozesse für Gasturbinen in der Energieerzeugung, 02.07.2009
- Prof. Hans-Josef Hug, Univ. of Basel and EMPA, Switzerland, The role of uncompensated spins for the exchange bias effect, 16.07.2009
- Dr. Alina Deac, FZ Jülich, Spin-transfer effects in metallic multilayers with in-plane reference and out-of-plane free layer: An analytical model, 05.11.2009
- Dr. Martin Wagner, Ruhr-Univ. Bochum, New experimental and theoretical insights into the mechanical behavior of NiTi thermal shape memory alloys, 19.11.2009
- Prof. Kazuhiro Hono, Univ. of Tsukuba, Japan, Advances in laser assisted atom probe and its applications to the interface characterizations of permanent magnets, 03.12.2009
- Prof. Ophir Auslaender, Technion - Israel Institute of Technology, Using magnetic force microscopy to study superconductors: from vortex manipulation to measuring the magnetic penetration depth, 10.12.2009

IKM-Seminars

- Prof. Karl-Ulrich Kainer, GKSS Forschungszentrum Geesthacht, Strategien zur Modifizierung der Zug-Druck-Anisotropie bei Magnesium-Knetlegierungen, 14.01.2009
- Dr. Claus Burkhardt, NMI Reutlingen, Analyse an organischen/anorganischen Biomaterialien und Beschichtungen mit FIB-SIMS, 28.01.2009

- Henrich Schleifenbaum, FhI für Lasertechnik Aachen, Werkzeug Licht - Werkstoff- und funktionsgerechte Bauteilherstellung mittels Selective Laser Melting, 04.02.2009
- Dr. Daniela Zander, Univ. Dortmund, Korrosion von Titanlegierungen in biologischen Ersatzelektrolyten für den Einsatz in der Medizintechnik, 11.02.2009
- Dr. Andrés Fabián Lasagni, Fraunhofer IWS Dresden, Surface Functionalization and 2D-3D design using Direct Laser Interference Patterning, 06.05.2009
- Dr. Johann Michler, EMPA, Switzerland, In situ Analyse mittels Nanointender, 12.05.2009
- Dr. Alexandra Lex, Univ. Münster, The Role of the Electrolyte in Lithium Ion Batteries, 13.05.2009
- Dr. Thomas Ebel, GKSS Geesthacht, Metal Injection Moulding von Titan- und Magnesiumlegierungen, 27.05.2009
- Prof. Dr. Ludwik Dobrzynski, Andrzej Soltan Institute for Nuclear Studies & Univ. of Bialystock, Warsaw, Poland, Structure, Spin distributions and Spin Dynamics in D03-type of alloys based on Fe₃Si and Fe₃Al, 03.06.2009
- Prof. Dr.-Ing. Christoph Leyens, TU Cottbus, Ti-Legierungen für Anwendungen in der Luft- und Raumfahrt, 24.06.2009
- Prof. Robert Glaum, Univ. Bonn, Redox-Verhalten und katalytische Eigenschaften von Phosphaten der Übergangsmetalle, 01.07.2009
- Dr. Ahmed Shariq, Fraunhofer Center for Nanoelectronic Technologies, Dresden, Three Dimensional Structural and Compositional Analyses of Semiconducting Materials using Atom Probe Tomography, 02.12.2009

IIN-Seminar

- Dr. Anthony J. Bennett, Toshiba Research Europe Ltd., Cambridge, UK, Indistinguishable photons from electrically-driven single quantum dots, 09.01.2009
- Dr. Till Hartmut Metzger, ESRF, Grenoble, France, Nanostructures in the light of synchrotronradiation, 16.01.2009
- Dr. Alexandre Jacquot, Fraunhofer-Institut für Physikalische Messtechnik, Freiburg, Transport properties measurement on problematic samples with the 30mega-Method, 20.02.2009
- Dr. Dmitri Yakovlev, TU Dortmund, Spin coherence of electrons in singly-charged quantum dots, 06.03.2009
- Prof. Thomas Heinzel, Univ. Düsseldorf, Transport properties of magnetic barriers, 20.03.2009
- Na Liu, Univ. Stuttgart, Three-dimensional metamaterials at optical frequencies, 27.03.2009
- Dr. Stefan Mendach, Univ. Hamburg, Spin wave optics in ferromagnetic waveguides and resonators, 03.04.2009
- Dr. Ing. Federico Peretti, TU München, Modelling of coplanar devices and equivalent circuit analysis of their interaction with two-level quantum systems, 17.04.2009
- Dr. Li Zhang, ETH Zürich, Helical Nanobelts as Motion Converters, 08.05.2009
- Dr. Silvano De Franceschi, CEA, Institute for Nanoscience and Cryogenics, Grenoble, France, Quantum transport in self-assembled semiconductor nanostructures, 25.05.2009
- Ibraheem A.I. Al-Naib, TU Braunschweig, Microwave and Terahertz Applications of Metamaterials, 28.05.2009
- Prof. Carsten Timm, TU Dresden, Molecular Spintronics and the Master Equation, 05.06.2009
- Dr. Michal Grochol, Univ. Erlangen, Excitons and photons in cavity-embedded quantum dot lattices, 03.07.2009
- Prof. Geoffrey A. Ozin, Univ. of Toronto, P-Ink and Elast-Ink Lab to Market, 13.07.2009
- Dr. Kevin A. Prior, Heriot-Watt Univ. Edinburgh, II-VI semiconductors: an overview and MBE Growth at Heriot-Watt Univ., 14.07.2009
- Jessica E. Bickel, Univ. of Michigan, The effect of Strain on Surface Reconstructions in Compound Semiconductor Alloys, 17.08.2009
- Prof. Giuseppe Grosso, Univ. di Pisa, Tight binding model for the electronic and optical properties of multilayer Silicon/Germanium nanostructures, 11.09.2009
- Prof. Hans von Känel, ETH Zürich, Strained Silicon-Germanium Heterostructures, 25.09.2009
- Dr. Fei Ding, IFW Dresden, Versatile strain engineering of quantum dots, microrings and grapheme, 09.10.2009
- Dr. Marco Schowalter, Univ. Bremen, Quantification of composition in semiconductor heterostructures using TEM, 23.10.2009
- Prof. Xingyu Jiang, National Center for Nanoscience + Technology, Beijing, China, Micro/Nano-Scale Tools for Biochemical Analysis, 26.10.2009
- Carmine Ortix, Univ. Leiden, Netherlands, Electronic properties of rolled-up materials, 30.10.2009
- Prof. Peter Kratzer, Univ. Duisburg-Essen, Theory of the shape evolution of InAs quantum dots on GaAs(001) and In_{0.5}Ga_{0.5}As(001) substrates, 06.11.2009
- Dr. Samuel Sanchez, IFW Dresden + WPI, MANA, National Institute for Materials Science, Tsukuba, Ibaraki, Japan, Nanorobots: the ultimate wireless self-propulsed sensing and actuating devices, 20.11.2009
- Prof. Dr. Georgeta Salvan, TU Chemnitz, Organic semiconductors for spintronic applications, 27.11.2009
- Prof. Dr. David Snoke, Univ. of Pittsburgh, USA, Bose-Einstein Condensation of Polaritons in a Two-Dimensional Trap, 21.12.2009

ITF- Seminars

Dr. Emmanuele Cappelluti, Univ. of Rome "La Sapienza", SMC Research Center, Calculation of Effective Born Charges for Bilayer Graphene, 12.02.2009

Dr. Jan Kunes, Univ. Augsburg, What do the Correlations do? Selected Materials with Dynamical Mean-Field Approximation, 28.05.2009

Prof. Helmut Eschrig, IFW Dresden, The electronic structure of iron-based superconductors revisited, 11.06.2009

Dr. Roman Kuzian, Institute for Materials Science, Kiev, A polar state in SrTiO₃ induced by manganese impurities, 25.06.2009

Prof. Gernot Paasch, Dr. Susanne Scheinert, IFW Dresden / TU Ilmenau, Space-charge-limited currents in organics with trap distributions: Analytical approximations vs. numerical simulation, 09.07.2009

Dr. Stefaan Cottenier, Center for Molecular Modeling (CMM), Ghent Univ., Belgium, Gamma-Fe₄N: facts, hypotheses and open questions, 21.09.2009

Prof. Christian Elsässer, Fraunhofer IWM, Freiburg, First-principles modelling of interfaces in functional metal-oxide devices, 24.09.2009

Prof. Józef Spalek, Marian Smoluchowski Institute of Physics, Jagiellonian Univ., and Univ. of Science and Technology, Krakow, Poland, A quantum critical scaling of the wave function near the Mott-Hubbard transition, 30.10.2009

Dr. Oliver Fruchart, Institut Néel, Grenoble, Magnetization processes within domain walls and control of flux-closure chirality in micron-size self-assembled epitaxial dots, 09.12.2009

Dr. Maurits W. Haverkort, MPI für Festkörperforschung, Stuttgart, Theory of Resonant and non-Resonant Inelastic X-ray Scattering of Orbitons and Magnons, 10.12.2009

Guests and Scholarships

Guest scientists (stay of 4 weeks and more)

Name	Home Institute	Home country
Hanaa Abuzeid	National Research Centre Cairo	Egypt
Prof. Dr. Victor Aristov	Institute of Solid State Physics, Moscow	Russia
Dr. Jhon Bados Ipus	University of Seville, Spain	Columbia
Dr. Nilam Shankarrao Barekar	Indian Institute of Technology Kharagpur	India
Isil Birlık	Dokuz Eylul University Izmir	Turkey
Taufik Aljuhuri Bonaedy	INHA Univ. Incheon, Korea	Indonesia
Christian Bonatto Minella	GKSS FZ Geesthacht	Italy
Michal Bystrzejewski	Univ. Warszawa	Poland
Prof. Dr. Chuanbing Cai	Shanghai University	China
Dr. Ihor Chumak	Univ. Lvov	Ukraine
Dr. Alexander Darinskiy	Institute for Crystallography Moscow	Russia
Dr. Fei Ding	MPI Stuttgart	China
Dr. Evgenia Dmitrieva	Algorithm St. Petersburg	Russia
Hryhoriy Dmytriv	Lvov National University	Ukraine
Roger Domènech Ferrer	Univ. Autònoma de Barcelona	Spain
Feng Fan	Shanghai University	China
Prof. Dr. Ilgiz Garifullin	Zavoisky Phys.-Techn. Institute Kazan	Russia
Dr. Vadim Grinenko	Inst. for supercond. & solid state physics Moscow	Russia
Luminita Harnagea	University Paris	Romania
Dr. Oleg Heczko	Institute of Physics, Praha	Czech Rep.
Dr. GaoShan Huang	University of Hong Kong	China
Dr. Kazumasa Iida	University of Cambridge, UK	Japan
Dr. Hemchandra Kandpal	Goethe Univ. Frankfurt/Main	India
Dr. Olga Kataeva	Arbuzov Inst. of Organic and Physical Chemistry Kazan	Russia
Dr. Andrea Rozalia Kellenberger	Univ. Politehnica Timisoara	Romania
Dr. Vyacheslav Khavrus	Pisarzhevsky Inst. of Physical Chemistry Kiev	Ukraine
Prof. Dr. Konstantin Kikoin	Univ. Tel-Aviv, Israel	Russia
Dr. Timur Kim	Paul Scherrer Inst. Villigen, Switzerland	Russia
Dr. Xianghua Kong	Institute of Chemistry, Peking	China
Dr. Vlastimil Krapek	Inst. of Condensed Matter Physics, Brno	Czech Rep.
Natalia Kuratyeva	Nikolaev Inst. of Inorganic Chemistry, Novosibirsk	Russia
Dr. Roman Kuzian	Inst. for Materials Research Kiev	Ukraine
Pavel Leksın	Kazan Physical Technical Institute	Russia
Dr. Irene Lucas del Pozo	Institute of Aerospace Technique Madrid	Spain
Dr. Vladimir Lukes	Slovak. Univ. of Technology Bratislava	Slovakia
Matthias Lutz	University of Southampton, UK	Austria
Dr. Libo Ma	Shandong Normal University Jinan	China
Dr. Jiri Malek	Univ. Praha	Czech Rep.
Dr. Maria Markina	Lomonosov State University Moscow	Russia
Dr. Igor Morozov	Lomonosov State University Moscow	Russia
Prof. Alexander Moskvın	Ural State University, Yekaterinburg	Russia
Dr. Touyana Namsaraeva	Buryat State University, Ulan-Ude	Russia
Dr. Satoshi Nishimoto	MPI PKS Dresden	Japan
Dr. Dalibor Paar	Univ. Zagreb	Croatia
Dr. Jérôme Paillier	HEITO Paris	France
Dr. Jin Man Park	Yonsei Univ. Seoul	Korea
Prof. Dr. Volodymyr Pavlyuk	Ivan Franko Lvov National University	Ukraine
Benjamin Podmiljsak	Jozef Stefan Institute Ljubljana	Slovenia

Dr. Ashim Kumar Pramanik	UGC-DAE Consortiu, University Indore	India
Dr. Peter Rapta	Slovak. University of Technology Bratislava	Slovakia
Dr. Samuel Sanchez Ordonez	Intern. Center for Materials Nanoarchitectonics, Tsukuba, Japan	Spain
Angelina Sarapulova	Geological Institute Ulan-Ude	Russia
Mahdi Sargolzaei	Univ. of Sciences and Technology Teheran	Iran
Dr. Chandra Shekhar	Banaras Hindu University	India
Dr. Surjeet Singh	Univ. de Paris-Sud	India
Dr. Konstantin Skokov	Tver State University	Russia
Dr. Elena Smirnova	A.F. Ioffe Physikal. Techn. Inst. St. Petersburg	Russia
Tatyana Vasilchikova	Moscow State University	Russia
Prof. Alexander Vasiliev	Moscow State University	Russia
Dr. Evgeniya Vavilova	Physical Technical Institute Kazan	Russia
Dr. Olga Volkova	Moscow State University	Russia
Lijuan Wang	MPI Stuttgart	China
Dr. Dmitry Yakhvarov	Inst. of Organic and Physical Chemistry Kazan	Russia
Dr. Galina Zakharova	Institute of Solid State Chemistry Yekaterinburg	Russia
Dr. Michal Zalibera	Slovak. TU Bratislava	Slovakia
Yue Zhang	TU Darmstadt	China
Dr. Feng Zhu	Changchun Institute of Applied Chemistry	China
Agnieszka Zlotorowicz	St. Petersburg State University	Poland
Dr. Elena Zvereva	Lomonosov State University, Moscow	Russia

Scholarships

Name	Home country	Donor
Jayaraj Jayamani	India	Alexander von Humboldt-Stiftung
Dr. Hengxing Ji	China	Alexander von Humboldt-Stiftung
Ran Li	China	Alexander von Humboldt-Stiftung
Prof. Dr. Gang Liu	China	Alexander von Humboldt-Stiftung
Dr. Qiang Luo	China	Alexander von Humboldt-Stiftung
Dr. Oksana Kvitnytska	Ukraine	Alexander von Humboldt-Stiftung
Dr. Guillaume Manilal Lang	France	Alexander von Humboldt-Stiftung
Dr. Daoyong Cong	China	Alexander von Humboldt-Stiftung
Ping Feng	China	Alexander von Humboldt-Stiftung
Dr. Alexey Popov	Russia	Alexander von Humboldt-Stiftung
Dr. Gang Wang	China	Alexander von Humboldt-Stiftung
James B. Whitaker	USA	Alexander von Humboldt-Stiftung
Marietta Seifert	Germany	Studienstiftung des deutschen Volkes
Maria Sparing	Germany	Studienstiftung des deutschen Volkes
Franziska Schäffel	Germany	Cusanuswerk
Silvia Vock	Germany	Cusanuswerk
Simon Pauly	Germany	Cusanuswerk
Yulieth Arango	Columbia	EU (AlBan Fellow)
Sebastiano Garroni	Italy	EU
Iwona Dobosz	Poland	EU
Maria Dimitrakopoulou	Greece	DAAD
Mohammed Yehia Taha El Bahrawy	Egypt	DAAD
Fedor Fedorov	Russia	DAAD
Dr. Ahmed Hashem	Egypt	DAAD
Trisha Karan	India	DAAD (IIT-Master-Sandwich-Programm)
Ram Bachchan Kumar	India	DAAD (IIT-Master-Sandwich-Programm)

Daniel Henrique Nogueira Dias	Brazil	DAAD
Roman Rezaev	Russia	DAAD
Kumar Babu Surreddi	India	DAAD
Ivan Tarasiuk	Ukraine	DAAD
Alexey Alfonsov	Russia	Int. Max-Planck Research School
Anupama Parameswaran	India	Int. Max-Planck Research School
Liran Wang	China	Int. Max-Planck Research School
Orkidia Zeneli	Albania	Int. Max-Planck Research School
Grzegorz Parzych	Poland	ECEMP Internat. Graduiertenschule
Dr. Alexander Grüneis	Austria	APART Austria
Fahad Ali	Pakistan	PIEAS Islamabad
Ahmed Aboud Mahmoud Igendy	Egypt	Egypt government
Abdelwahab Hamdy Hassan	Egypt	Egypt government
Dr. Eslam Mohamed Ibrahim	Egypt	Egypt government
Mahmoud Abdel-Hafez Mohamed	Egypt	Egypt government
Dr. Hong Seok Lee	Korea	Korea Res. Foundation / MURI (NATO)
Kaikai Song	China	China Scholarship Council
Jun Tan	China	China Scholarship Council
Yiku Xu	China	China Scholarship Council
Lin Zhang	China	China Scholarship Council
Yang Zhang	China	China Scholarship Council
Na Zheng	China	China Scholarship Council
Franziska Thoss	Germany	Deutsche Bundesstiftung Umwelt

Guest stays of IFW members at other institutes

Dr. Christoph Deneke	Brasil Synchrotron LNLS, Campinas; Oct. 29 – Dec.12, 2009 in the frame of the DFG Project “Combined study of optical active microtubes by photoluminescence and x-ray micro-diffraction”
Thomas Kroll	Centro Atómico Bariloche, Solid State Theory Group, Comisión Nacional de Energía Atómica, Bariloche, Argentina, Feb. 16 – May 14, 2009 and Oct. 27- Nov. 26, 2009, joint research on FeAs
Martin Philipp	Saint-Gobain Paris, France, 13.09. – 10.10.2009, research stay
Franziska Wolny	Ohio State Univ. Columbus, Ohio, USA, 4.10. – 30.10.2009, guest stay for measurements
Miroslava Sakaliyska	North Carolina State Univ. Raleigh, USA, 01.02.09-30.04.09 research stay on Cu-Zn-Al alloys
Kumar Babu Surreddi	Univ. Ulsan Korea, 01.02.09-31.03.09, research stay on Al-based glassy powder
Prof. Dr. Jürgen Eckert	Univ. Vienna, Austria, 12.07.09 – 26.07.09 and 09.10.09 – 24.10.09, Guest lectures on Metastable Materials
Dr. Bernhard Holzapfel	Physics Dept. Shanghai Univ., China, 03.05.2009 – 26.05.2009, Vorlesung im Rahmen einer Gastprofessur
Dr. Jeffrey McCord	Institut Jean Lamour - Nancy-Univ. -CNRS Nancy, France, Cooperation on magnetic thin film analysis (Three one week stays in Feb., Sept. and Oct. 2009)

The Institute by numbers

Personnel

In 2009 the Leibniz Institute for Solid State and Material Research Dresden employed 523 staff members, including 106 doctorate students, 39 post docs, 21 guest scientists and 18 apprentices. The quote of female staff is 38 %. Furthermore, in 2009, the IFW hosted 49 fellows, that came with their own money to work at the institute. 47 diploma students worked at the IFW and 30 trainees did a practical course at the institute in 2009. The total number of guest scientists, above all was 135.

Financing

Total budget 44,449.7 k€

Thereof

Federal States of Germany 14,837.4 k€

Free State of Saxony 14,837.4 k€

Third party funding spent 14,518.9 k€

Return on infrastructure, interest, royalties .. 256.0 k€

Third party funding

by the DFG 2,724.0 k€

by the EC 3,822.5 k€

by the Federal States of Germany 1,501.6 k€

by Free State of Saxony 4,295.5 k€

by industry 1,358.7 k€

by foundations / others 816.6 k€

Total 14,518.9 k€

Expenditures

Remuneration costs 19,333.8 k€

Equipment, infrastructure and consumables 10,338.8 k€

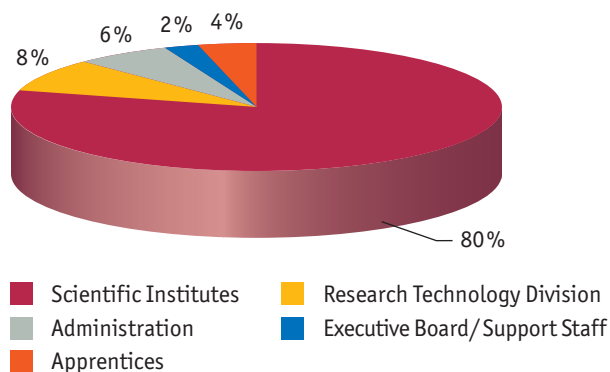
Investment 14,776.1 k€

Total 44,448.7 k€

Patents

By 31 December 2009 the institute can boast of a total of 119 German and 198 patents registered abroad. In 2009 a total of 12 patent applications were registered.

Personnel according to organisational units 2009



Board of trustees

Dr. Petra Karl, Saxon Ministry of Science and Art - Head -
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Dr. Hans Rainer Hilzinger, Vacuumschmelze GmbH & Co Hanau

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IFW's Research Program 2010

1. Superconductivity and superconductors

- 1.1 Electronic structure and fundamentals
- 1.2 Superconducting materials
- 1 P1 Superconducting transport systems and magnetic bearings
- 1 P2 YBCO tape conductors
- 1 P3 Nanoscaled inhomogeneities in superconductors (Pakt 2009)

2. Magnetism and magnetic materials

- 2.1 Theoretical and experimental fundamentals
- 2.2 Magnetic materials
- 2.3 Magnetic microstructures
- 2.4 Phase equilibria and single crystal growth
- 2 P1 Pulsed high magnetic fields
- 2 P2 Magnetic shape memory alloys
- 2 P3 Energy efficient cooling with magnetocaloric materials (Pakt 2010)

3. Molecular nanostructures and molecular solids

- 3.1 Nanotubes and fullerenes
- 3.2 Conducting polymers and organic molecular solids
- 3.3 Molecular Magnets
- 3 P1 Manipulation of nanoscaled magnets (Pakt 2007)

4. Metastable alloys

- 4.1 Solidification and crystallization
- 4.2 Corrosion and hydrogen
- 4.3 Materials for sports
- 4.4 Bulk amorphous metals and composite materials
- 4.5 Lithium-ion batteries
- 4 P1 Cluster materials with competing properties (Pakt 2008)

5. Stress-driven architectures and phenomena

- 5.1 3D micro/nanoarchitectures
- 5.2 Quantum dots
- 5.3 Ferroic oxid films
- 5.4 SAW systems
- 5 P1 New multiferroic oxides (Pakt 2006)