

Supplement
to the
Annual Report 2004

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Supplement, Annual Report 2004

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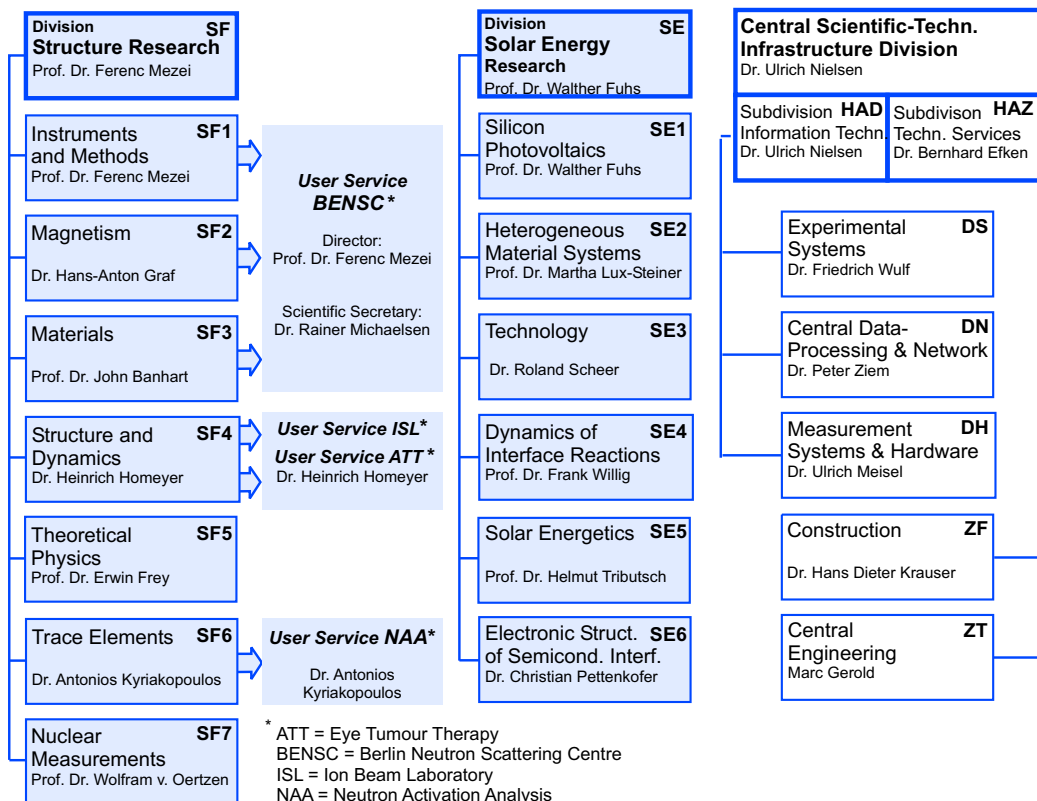
Preface

This supplement to the Annual Report 2004 is supposed to provide in addition to the scientific highlights of the HMI a survey of the scientific activities in terms of publications, contributions to conferences etc.

Following the internal organisation of the institute, these lists are ordered along the divisions, departments and, wherever reasonable, along the R&D-projects within the latter. Publications and conference contributions are ascribed to a definite R&D-project. When authors from different departments have contributed, this contribution is listed under all involved departments and the respective R&D-project is indicated.

The supplement was generated mostly from an internal data base installed over the last year. We would like to thank Marion Schröder and Volker Denzer (Central Data-Processing & Network) for a lot of technical support.

Organisational Chart



R&D-projects in the matrix of departments versus Helmholtz programmes

Dep.	Research fields and programmes				
	Structure of Matter: PNI		Health		Energy
	Research	Large scale facilities	Cancer	Environ. Health	Renewable Energies
		BENSC.External BENSC.User			
SF1	SF1.Methods SF1.Spallation SF1.Dynamics	SF1.BENSC			
SF2	SF2.Bulk Magnetism SF2.Thin films	SF2.BENSC SF2.BESSY			
SF3	SF3.Microstructure SF3.Light weight mat. SF3.Nanostructures	SF3.BENSC SF3.BESSY			
SF4	SF4.Dynamics SF4.Structures	ISL.User ISL.Development ISL.Accelerator SF4.BESSY	ISL.PPT		
SF5	SF5.Soft Matter SF5.Hard Matter SF5.Biosystems				
SF6		SF6.NAA		SF6.Analysis SF6.Proteins	
SF7	SF7.Q3D SF7.Detector				
SE1					SE1.Cells SE1.Hetero
SE2					SE2.Semico SE2.Contacts SE2.Integration SE2.Chemistry SE2.Concepts SE2.Analytics
SE3					SE3.Baseline SE3.Control
SE4					SE4.Cells SE4.Dynamics
SE5					SE5.Energetics SE5.Interfaces
SE6					SE6.Interfaces SE6.BESSY

Publications

SF - Structural Research

SF - BENSC

BENSC.External

Böhmert, J.; Viehrig, H.-W.; Ulbricht, A.

Correlation between irradiation-induced changes of microstructural parameters and mechanical properties of RPV steels

Journal of Nuclear Materials

334 (2004) 71 - 78

Czeslik, C.

Factors ruling protein adsorption

Zeitschrift für Physikalische Chemie

218 (2004) 771 - 801

Branca, C.; Faraone, A.; Magazu, S.; Maisano, G.; Mangione, A.

A quasi-elastic neutron scattering and neutron spin-echo study of hydrogen bonded system

Physica B

350 (2004) e355 - e358

Ulbricht, A.; Böhmert, J.

Small angle neutron scattering analysis of the radiation susceptibility of reactor pressure vessel steels

Physica B

350 (2004) e483 - e486

Giuliani, A.; Albertini, G.; Manescu, A.

Residual stress analysis on tensile MMC specimens after loading/unloading tests in several conditions

Physica B

350 (2004) e499 - e501

Auffermann, G.; Müller, P.; Bronger, W.:

Neutron Scattering as a Powerful Tool in Solid State Chemistry. Examples from the Investigations in Crystal Structures and Properties of Metal Hydrogen and Metal Chalcogen Compounds

Z. Anorg. Allg. Chem.

630 (2004) 2113 - 2124

Niewa, R.; Zherebtsov, D.A.:

New Phases in the Lithiumnitridovanadate System - The Solid Solution $\text{Li}_{7-2x}\text{Mg}_x[\text{VN}_4]$ (0 x \leq 1)

Z. Anorg. Allg. Chem.

630 (2004) 229 - 233

Niewa, R.; Zherebtsov, D.A.; Schnelle, W.; Wagner F.R.:

Metal-Metal Bonding in ScTa_2N_2 . A New Compound in the System $\text{ScN} - \text{TaN}$

Inorganische Chemie

43 (2004) 6188 - 6194

Chaboussant, G.; Basler, R.; Sieber, A.; Ochsenbein, S.T.; Güdel, H.-U.

Neutron scattering studies of magnetic molecular spin clusters

Physica B

350 (2004) e51 - e54

Pintschovius, L.; Reznik, D.; Pfeiderer, C.; Löhneysen, H. v.

Partial order in the itinerant-electron magnet MnSi

PRAMANA-journal of physics

63 (2004) 117 - 123

Rogante, M.; Battistella, P.; Rustichelli, F.

Residual stress measurement by neutron diffraction in AA6082 extruded samples submitted to different quenching rates

Journal of Alloys and Compounds

378 (2004) 335 - 338

Bruno, G.; Ceretti, M.; Girardin, E.; Giuliani, A.; Manescu, A.

Relaxation of residual stress in MMC after combined plastic deformation and heat treatment

Scripta Materialia

51 (2004) 999 - 1004

Wosnitza, J.; Hagel, J.; Stockert, O.; Pfeleiderer, C.; Schlueter, J.A.; Mohtasham, J.; Gard, G.L.

Fermi surface reconstruction close to a pressure-induced metal-insulator transition

Journal de Physique IV

114 (2004) 277 - 281

SF1.BENSC

Ahrens H. ; Büscher K. ; Eck D. ; Förster S. ; Luap C. ; Papastavrou G. ; Schmitt J. ; Steitz R. ; Helm C.A.

Poly(styrene sulfonate) self-organization: electrostatic and secondary interactions

Macromolecular Symposia

211 (2004) 93 - 105

Bourdarot F. ; Fak B. ; Habicht K. ; Prokes K.

Evidence for a hidden order parameter in URu_2Si_2

Journal of Magnetism and Magnetic Materials

272-276 (2004) e31 - e32

Calandrini V. ; Deriu A. ; Onori G. ; Lechner R.E. ; Pieper J.

Diffusive dynamics of water in tert-butyl alcohol/water mixtures

Journal of Chemical Physics

120 (2004) 4759 - 4767

Czeslik C. ; Jackler G. ; Hazlett T. ; Gratton E. ; Steitz R. ; Wittemann A. ; Ballauff M.

Salt-induced protein resistance of polyelectrolyte brushes studied using fluorescence correlation spectroscopy and neutron reflectometry

Physical Chemistry Chemical Physics

6 (2004) 5557 - 5563

Czeslik C. ; Jackler G. ; Steitz R. ; von Grünberg H.-H.

Protein binding to like-charged polyelectrolyte brushes by counterion evaporation

Journal of Physical Chemistry B

108 (2004) 13395 - 13402

Fick J. ; Steitz R. ; Leiner V. ; Tokumitsu S. ; Himmelhaus M. ; Grunze M.

Swelling behavior of self-assembled monolayers of alkanethiol-terminated poly(ethylene glycol): a neutron reflectometry study

Langmuir

20 (2004) 3848 - 3853

Fitzsimmons M.R. ; Fritzsche H. ; Gierlings M. ; Major J. ; Pynn R.

Measuring scattering angles with neutron spin echo

Nuclear Instruments and Methods in Physics Research A

529 (2004) 10 - 15

Gutberlet T. ; Klösgen B. ; Krastev R. ; Steitz R.

Neutron reflectivity as method to study in-situ adsorption of phospholipid layers to solid-liquid interfaces

Advanced Engineering Materials

6 (10) (2004) 832 - 836

Gutberlet T. ; Steitz R. ; Fragneto G. ; Klösgen B.

Phospholipid bilayer formation at a bare Si surface: a time-resolved neutron reflectivity study

Journal of Physics: Condensed Matter
16 (2004) S2469 - S2476

Habicht K. ; Golub R. ; Mezei F. ; Keimer B. ; Keller T.

Temperature-dependent phonon lifetimes in lead investigated with neutron-resonance spin-echo spectroscopy

Physical Review B
69 (2004) 104301/1 - 8

Hahn-Meitner-Institut Berlin / Berlin Neutron Scattering Center. Kirschbaum Y. ; Tovar M. ; Bischoff D. ; Michaelsen R. [Eds.]

BENSC experimental reports 2003

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Application of ultrasound for the simultaneous improvement intensity and resolution of the Bonse-Hart diffractometer

Nuclear Instruments and Methods in Physics Research A
529 (2004) 152 - 156

Jauch W.

Electron densities in relation to magnetism: gamma-ray diffraction from transition-metal monoxides and difluorides

Acta Crystallographica A
60 (2004) 397 - 401

Jauch W. ; Reehuis M.

Electron density distribution in paramagnetic and antiferromagnetic NiO: a γ -ray diffraction study

Physical Review B
70 (2004) 195121/1 - 8

Jauch W. ; Reehuis M. ; Schultz A.J.

Gamma-ray and neutron diffraction studies of CoF₂: magnetostriction, electron density and magnetic moments

Acta Crystallographica A
60 (2004) 51 - 57

Keller T. ; Habicht K. ; Golub R. ; Mezei F.

Roton and phonon linewidths in superfluid ⁴He

Europhysics Letters
67 (5) (2004) 773 - 778

Kumar M.S. ; Shah V.R. ; Schanzer C. ; Böni P. ; Krist Th. ; Horisberger M.

Polarized neutron reflectivity of FeCoV/Ti multilayers

Physica B
350 (2004) e241 - e244

Lake B. ; Aeppli G. ; Christensen N.B. ; Lefmann K. ; McMorro D.F. ; Clausen K.N. ; Ronnow H.M. ; Vorderwisch P. ; Smeibidl P. ; Mankorntong M. ; Sasagawa T. ; Nohara M. ; Takagi H. ; Hussey N.E.

Effects of magnetic field on the cuprate high- T_C superconductor $\text{La}_{2-x}\text{Sr}_x\text{CuO}_4$

Notiziario Neutroni e Luce di Sincrotrone
9 (1) (2004) 4 - 9

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Detecting ionizing radiation in liquid helium using wavelength shifting light collection

Nuclear Instruments and Methods in Physics Research A
516 (2004) 475 - 485

Mukherjee C.J. ; Coldea R. ; Tennant D.A. ; Koza M. ; Enderle M. ; Habicht K. ; Smeibidl P. ; Tylczynski Z.

Field-induced quantum phase transition in the quasi 1D XY-like antiferromagnet Cs_2CoCl_4

Journal of Magnetism and Magnetic Materials

272-276 (2004) 920 - 921

Novikov A.G. ; Robnikova M.N. ; Sobolev O.V.

Reorientation and diffusion motions in liquid ethylene glycol

Physica B

350 (2004) e363 - e366

Prager M. ; Pieper J. ; Buchsteiner A. ; Desmedt A.

Probing adsorption sites in a cubic II water clathrate cage by methyl group rotation of CH_3I guest molecules

Journal of Physics: Condensed Matter

16 (2004) 7045 - 7061

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Methyl rotational potentials as a probe of the cage potential surface in methyl iodide clathrate

Physica B

350 (2004) e399 - e402

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Quasi-elastic neutron scattering investigation of dynamics in polymer electrolytes

Macromolecules

37 (2004) 8653 - 8660

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Spin dynamics in the BEC phase of the $S=1/2$ quantum spin system $TlCuCl_3$

Journal of Magnetism and Magnetic Materials

272-276 (2004) 195 - 196

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Physical Review Letters

93 (3) (2004) 037207/1 - 4

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Investigation of magnetization reversal in FeCoV/Ti multilayers

Physica B

350 (2004) e221 - e224

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$CeCu_2$ -crystal field transition matrix elements determined by polarized neutron spectroscopy

Physica B

350 (2004) e107 - e110

Shi H. ; Zhang S. ; Steitz R. ; Chen J. ; Uredat S. ; Findenegg G.H.

Surface coatings of PEO-PPO-PEO block copolymers on native and polystyrene-coated silicon wafers

Colloids and Surfaces A: Physicochemical and Engineering Aspects

246 (2004) 81 - 89

Stefanopoulos K.L. ; Steriotis Th.A. ; Mitropoulos A.Ch. ; Kanellopoulos N.K. ; Treimer W.

Characterisation of porous materials by combining mercury porosimetry and scattering techniques

Physica B

350 (2004) e525 - e527

Steitz R. ; Müller-Buschbaum P. ; Schemmel S. ; Cubitt R. ; Findeneegg G.H.

Lateral structure of a surfactant layer adsorbed at a hydrophilic solid/liquid interface

Europhysics Letters

67 (6) (2004) 962 - 968

Stremper J. ; Rütt U. ; Bayrakci S.P. ; Brückel Th. ; Jauch W.

Magnetic properties of transition metal fluorides MF₂ (M = Mn, Fe, Co, Ni) via high-energy photon diffraction

Physical Review B

69 (2004) 014417/1 - 9

Strobl M. ; Treimer W. ; Hilger A.

First realisation of a three-dimensional refraction contrast computerised neutron tomography

Nuclear Instruments and Methods in Physics Research B

222 (2004) 653 - 658

Strobl M. ; Treimer W. ; Hilger A.

Small angle scattering signals for (neutron) computerized tomography

Applied Physics Letters

85 (3) (2004) 488 - 490

Strobl M. ; Treimer W. ; Hilger A. ; Feye-Treimer U.

Neutron tomography in double crystal diffractometers

Physica B

350 (2004) 155 - 158

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Dynamics of spin freezing in the re-entrant spin glass FeNiMn

Physica B

350 (2004) e1051 - e1054

Wilmer D. ; Feldmann H. ; Lechner R.E.

Fast cation conduction and anion rotational disorder in the high-temperature phase of lithium sodium sulfate

Zeitschrift für Physikalische Chemie

218 (2004) 1439 - 1454

Wilmer D. ; Feldmann H. ; Lechner R.E. ; Combet J.

Correlated motion of anions and cations in fast cation conducting rotor phases

Solid State Ionics

175 (2004) 463 - 466

Zheludev A. ; Shapiro S.M. ; Honda Z. ; Katsumata K. ; Grenier B. ; Ressouche E. ; Regnault L.-P. ; Chen Y. ; Vorderwisch P. ; Mikeska H.-J. ; Kolezhuk A.K.

Dynamics of an anisotropic Haldane antiferromagnet in a strong magnetic field

Physical Review B

69 (2004) 054414/1 - 10

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Short range interactions in polyelectrolyte multilayers

Current Opinion in Colloid and Interface Science

9 (2004) 158 - 162

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Neutron diffraction studies of R₂RhSi₃ (R=Dy, Ho, Er) compounds

Physica B

350 (2004) e167 - e170

Borisov S. ; Hansen T. ; Kumzerov Yu. ; Naberezhnov A. ; Simkin V. ; Smirnov O. ; Sotnikov A. ; Tovar M. ; Vakhrushev S.

Neutron diffraction study of $NaNO_2$ ferroelectric nanowires

Physica B

350 (2004) e1119 - e1121

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Structural alterations of fully hydrated human stratum corneum

Physica B

350 (2004) e603 - e606

Efimov V.V. ; Khasanov S.S. ; Mavrin B.N. ; Novikova N.N. ; Shilnikov A.V. ; Burkhanov A.I. ; Sikolenko V.V. ; Sternberg A. ; Tiutiunnikov S.I. ; Többens D.M. ; Yakovlev V.A.

Structure and lattice dynamics in PLZT 8/65/35 ceramics irradiated by high-current pulsed electron beam

Ferroelectrics

302 (2004) 327 - 333

Frontzek M. ; Kreyssig A. ; Doerr M. ; Hoffman J.-U. ; Hohlwein D. ; Bitterlich H. ; Behr G. ; Loewenhaupt M.

Magnetic properties of Tb_2PdSi_3

Physica B

350 (2004) e187 - e189

Gamari-Seale H. ; Troyanchuk I.O. ; Bushinsky M.V. ; Stefanopoulos K.L. ; Hernandez-Velasco J.

The effect on highly Cr-substituted manganite $Nd_{0.6}Ca_{0.4}(Mn_{0.5}Cr_{0.5})O_3$

Acta Physica Polonica A

105 (1-2) (2004) 81 - 86

Gamari-Seale H. ; Troyanchuk I.O. ; Khalyalin D. ; Szymczak H. ; Stefanopoulos K.L. ; Hernandez-Velasco J.

Magnetic structure of $Nd_{0.92}Ca_{0.08}MnO_3$

Journal of Magnetism and Magnetic Materials

272-276 (2004) e483 - e484

Gamari-Seale H. ; Troyanchuk I.O. ; Khalyavin D. ; Stefanopoulos K.L. ; Hernandez-Velasco J.

Neutron powder diffraction study of $Nd_{0.92}Ca_{0.08}MnO_3$

Physica B

350 (2004) e19 - e21

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Field-induced magnetic and structural domain alignment in PrO_2

Physical Review B

70 (2004) 024416/1 - 11

Genzel C.

Problems related to X-ray stress analysis in thin films in the presence of gradients and texture

In: Diffraction analysis of the microstructure of materials, eds. Mittemeijer E.J. ; Scardi P.

Springer, Berlin, 2004, 473 - 503

Gil A. ; Kaczorowski D. ; Hernandez-Velasco J. ; Penc B. ; Wawrzynska E. ; Szytula A.

Magnetic structures of RCu_xGe_2 (R=Ho, Er) compounds

Journal of Alloys and Compounds

384 (2004) L4 - L6

Gil A. ; Penc B. ; Hernandez-Velasco J. ; Szytula A. ; Zygmunt A.

Neutron-diffraction studies of RNi_xSn_2 (R=Tb, Dy and Ho) compounds

Physica B

350 (2004) e119 - e121

Gil A. ; Penc B. ; Stüsser N. ; Szytula A.

Magnetic phase transitions in $Tb_{0.4}Nd_{0.6}NiGe_2$ compound

Physica B

350 (2004) e327 - e329

Gil A. ; Penc B. ; Wawrzynska E. ; Hernandez-Velasco J. ; Szytula A. ; Zygmunt A.

Magnetic properties and magnetic structures of $RC_{O_x}Sn_2$ (R=Gd-Er) compounds

Journal of Alloys and Compounds

365 (2004) 31 - 34

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Magnetic structures of non-stoichiometric hexagonal $RNi_{1-x}In_{1+x}$ (R=Dy, Ho, Er) compounds

Journal of Magnetism and Magnetic Materials

278 (3) (2004) 392 - 396

Gondek L. ; Szytula A. ; Baran S. ; Szajek A. ; Hernandez-Velasco J.

Neutron-diffraction studies of $R_3Co_8Sn_4$ (R=Y, Tb, Ho, Er) compounds

Physica B

350 (2004) e123 - e125

Hoelzel M. ; Danilkin S.A. ; Ehrenberg H. ; Toebbens D.M. ; Udovic T.J. ; Fuess H. ; Wipf H.

Effects of high-pressure hydrogen charging on the structure of austenitic stainless steels

Materials Science and Engineering A

384 (2004) 255 - 261

Hofmann M. ; Campbell S.J. ; Ehrhardt H. ; Feyerherm R.

The magnetic behaviour of nanostructured zinc ferrite

Journal of Materials Science

39 (2004) 5057 - 5065

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Neutron spin filters (NSF) obtained by metastability-exchange optical pumping (MEOP) and mechanical compressing of 3He gas

In: ROMOPTO 2003: Seventh Conference on Optics, 8 - 11 September 2003, Constanta, Romania, eds. Vlad V.I.

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Physica B

350 (2004) e703 - e706

Jaworska-Golab T. ; Szytula A. ; Baran S. ; Penc B. ; Zygmunt A. ; Stüsser N.

Magnetic ordering of $TbRu_{2-x}Pd_xSi_2$ solid solutions investigated by magnetometric and powder neutron-diffraction methods

Physica B

350 (2004) e183 - e186

Jensen A. ; Norgaard Toft K. ; Abrahamsen A.B. ; Andersen N.H. ; Jensen J. ; Hedegard P. ; Klenke J. ; Prokes K. ; Smeibidl P. ; Danilkin S. ; Sikolenko V. ; Eskildsen M.R. ; Canfield P.C.

Magnetic phase diagram of $ErNi_2B_2C$

Physica C

408-410 (2004) 97 - 99

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Field-induced magnetic phases in the normal and superconducting states of $ErNi_2B_2C$

Physical Review B

69 (2004) 104527/1 - 11

Kolenda M. ; Hofmann M. ; Penc B. ; Szytula A.

Magnetic structures of $ErPd_2X$ (X=Si, Ge) compounds

Physica B

350 (2004) e191 - e193

Korenev S. ; Sikolenko V.

Non-destructive diagnostics of irradiated materials using neutron scattering from pulsed neutron sources

Radiation Physics and Chemistry

71 (2004) 519 - 521

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Development of the high-temperature phase of hexagonal manganites

Physical Review B

69 (2004) 134108/1 - 10

Lottermoser Th. ; Lonkai Th. ; Amann U. ; Hohlwein D. ; Ihringer J. ; Fiebig M.

Magnetic phase control by an electric field

Nature

430 (2004) 541 - 544

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Phase decomposition and chemical inhomogeneity in $Nd_{2-x}Ce_xCuO_{4-\delta}$

Physical Review B

70 (2004) 094507/1 - 15

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Magnetic-field effect on static antiferromagnetic order above the upper critical field in

$Nd_{1.85}Ce_{0.15}CuO_4$

Physical Review B

69 (2004) 104510/1 - 5

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Low-temperature metal ion implantation assisted deposition of hard coatings.

Surface and Coatings Technology

188-189 (2004) 214 - 219

Pebler J. ; Frommen C. ; Mangold M. ; Stief R. ; Krimmel A. ; van de Kamp R. ; Ohl M. ; Regnault L.-P.

Comparison of the non-linear spin dynamics in antiferromagnetic chain compounds Na_2MnF_5 and $(ND_4)_2MnF_5$

Zeitschrift für Anorganische und Allgemeine Chemie

630 (6) (2004) 829 - 840

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Magnetic structures and magnetic phase transitions in $TbCoSi_2$

Journal of Alloys and Compounds

366 (2004) 120 - 123

Penc B. ; Wawrzynska E. ; Szytula A. ; Gil A. ; Hernandez-Velasco J. ; Zygmunt A.

Magnetic structure of ErT_xSn_2 (T=Co, Ni) compounds

Journal of Alloys and Compounds

375 (2004) L1 - L3

Regulski M. ; Przenioslo R. ; Sosnowska I. ; Hohlwein D. ; Schneider R.

Neutron diffraction study of the magnetic structure of $\alpha - Mn_2O_3$

Journal of Alloys and Compounds

362 (2004) 236 - 240

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Investigation of structural anomaly and metal ordering in the solid solution 2ZnS-CuInS_2 by neutron diffraction

Physica B
350 (2004) e411 - e414

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Modulated spin-density waves in uranium intermetallic compounds with ThCr_2Si_2 structure

Physica B
350 (2004) e163 - e166

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Magnetic properties of $\text{La}_{1-x}\text{Sr}_x\text{CoO}_3$ ($x = 0.15$ and 0.3)

Journal of Physics: Condensed Matter
16 (2004) 7313 - 7320

Stockert O. ; Faulhaber E. ; Zwicknagl G. ; Stüßer N. ; Jeevan H.S. ; Deppe M. ; Borth R. ; Küchler R. ; Loewenhaupt M. ; Geibel C. ; Steglich F.

Nature of the A phase in CeCu_2Si_2

Physical Review Letters
92 (13) (2004) 136401/1 - 4

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Magnetic order of CePd_5Ge_3 and CePt_5Ge_3

Journal of Magnetism and Magnetic Materials
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Milne C.J. ; Argyriou D.N. ; Chemseddine A. ; Aliouane N. ; Veira J. ; Landsgesell S. ; Alber D.

Revised superconducting phase diagram of hole-doped $Na_x(H_3O)_2CoO_2 \cdot y H_2O$

Physical Review Letters

93 (2004) 247007/1 - 4

**SE4 - Dynamics of interfacial reactions
Addenda to 2003****SE4.Cells**

Möller K. ; Kollonitsch Z. ; Giesen Ch. ; Heuken M. ; Willig F. ; Hannappel T.

Optical in situ monitoring of MOVPE GaSb(1 0 0) film growth

Journal of Crystal Growth

248 (2003) 244 - 248

SE5 - Solar energy**SE5.Energetics**

Bogdanoff P. ; Herrmann I. ; Hilgendorff M. ; Dorbandt I. ; Fiechter S. ; Tributsch H.

Probing structural effects of pyrolysed CoTMPP-based electrocatalysts for oxygen reduction via new preparation strategies

Journal of New Materials for Electrochemical Systems

7 (2004) 85 - 92

Boujday S. ; Wünsch F. ; Portes P. ; Bocquet J.-F. ; Colbeau-Justin C.

Photocatalytic and electronic properties of TiO_2 powders elaborated by sol-gel route and supercritical drying

Solar Energy Materials and Solar Cells

83 (2004) 421 - 433

Ellmer K. ; Mientus R. ; Seeger S. ; Weiß V.

Highly (001)-textured WS_{2-x} films prepared by reactive radio frequency magnetron sputtering

Physica Status Solidi A

201 (2004) R97 - R100

Fiechter S.

Defect formation energies and homogeneity ranges of rock salt-, pyrite-, chalcopyrite- and molybdenite-type compound semiconductors

Solar Energy Materials and Solar Cells

83 (2004) 459 - 477

Hariskos R.D. ; Menner R. ; S. Spiering S. ; Eicke A. ; Powalla M. ; Ellmer K. ; Oertel M. ; Dimmler B.

In_2S_3 buffer layer deposited by magnetron sputtering for $Cu(InGa)Se_2$ solar cells

In: Nineteenth European Photovoltaic Solar Energy Conference : proceedings of the international conference held in Paris, France, 7 - 11 June 2004, eds. Hoffmann W. [u.a.]

WIP, ETA, Munich, Florence, 2004, 1894 - 1897

Jeranko T. ; Tributsch H. ; Sariciftci N.S. ; Hummelen J.C.

Patterns of efficiency and degradation of composite polymer solar cells

Solar Energy Materials and Solar Cells

83 (2004) 247 - 262

Kunst M. ; Grunow P.

Characterization of multicrystalline silicon wafers by non-invasive measurements

Solar Energy Materials and Solar Cells

83 (2004) 409 - 419

Kunst M. ; Neitzert H.-C. ; Sanders A.

Characterization of InP and GaAs films by contactless transient photoconductivity measurements

Thin Solid Films
450 (2004) 159 - 162

Kunst M. ; Wunsch F. ; Fuertes Marron D. ; Meeder A.

Charge carrier kinetics of $CuGaSe_2$ films determined by TRMC

Thin Solid Films
451-452 (2004) 152 - 155

Lewerenz H.J. ; Jakubowicz J. ; Jungblut H.

Metastable stage in porous silicon formation: the role of H-terminated low index faces

Electrochemistry Communications
6 (2004) 838 - 842

Niehus M. ; Sanguino P. ; Schwarz R. ; Fedorov A. ; Martinho J.M.G. ; Soares M.J. ; Monteiro T. ; Wunsch F. ; Kunst M.

Non-radiative and radiative properties of PLD-deposited polycrystalline GaN studied by UV ps-to-ns laser pulses

Journal of Non-Crystalline Solids
338-340 (2004) 460 - 464

Sirimanne P.M. ; Tributsch H.

Parameters determining efficiency and degradation of TiO_2 /dye/CuI solar cells

Journal of Solid State Chemistry
177 (2004) 1789 - 1795

Skorupska K. ; Jakubowicz J. ; Jungblut H. ; Lewerenz H.J.

Observation of metastable self-organised structure during porous silicon formation

Superlattices and Microstructures
36 (2004) 211 - 217

Tributsch H.

Bionic models for new sustainable energy technology

In: First International Industrial Conference Bionik2004 : April 22nd and 23rd, 2004 held attendant to the Hannover Messe, Hannover, Germany, eds. Boblan I. ; Bannasch R.
VDI-Verl., Düsseldorf, 2004, 331 - 337

Tributsch H.

Fahrplan für ein gesundes oder "krankes" Land? Die Kernkraft-Befürwortung durch die Deutsche Akademie der Naturforscher

Solarzeitalter
H.3 (2004) 10 - 13

Villarreal T.L. ; Bogdanoff P. ; Salvador P. ; Alonso-Vante N.

Photocatalytic oxidation on nanostructured chalcogenide modified titanium dioxide

Solar Energy Materials and Solar Cells
83 (2004) 347 - 362

SE5.Interfaces

Lewerenz H.J. ; Jakubowicz J. ; Jungblut H.

Nascent phase of porous silicon

Electrochemistry Communications
6 (2004) 1243 - 1248

**SE5 - Solar energy
Addenda to 2003****SE5.Energetics**

Ellmer K. ; Wendt R. ; Wiesemann K.

Interpretation of ion distribution functions measured by a combined energy and mass analyzer

International Journal of Mass Spectrometry
223-224 (2003) 679 - 693

Lokhande C.D. ; Barkschat A. ; Tributsch H.

Contact angle measurements: an empirical diagnostic method for evaluation of thin film solar cell absorbers ($CuInS_2$)

Solar Energy Materials and Solar Cells
79 (2003) 293 - 304

Schulenburg H. ; Stankow S. ; Schünemann V. ; Radnik J. ; Dorbandt I. ; Fiechter S. ; Bodganoff P. ; Tributsch H.

Catalysts for the oxygen reduction from heat-treated iron(III) tetramethoxyphenylporphyrin chloride: structure and stability of active sites

Journal of Physical Chemistry B
107 (2003) 9034 - 9041

SE6 - Elektronic structure of semiconductor interfaces**SE6.BESSY**

Pettenkofer C. ; Otto A.

Strong subthreshold photoemission from Ag(111) islands

Europhysics Letters
65 (5) (2004) 692 - 698

Yu S.-W. ; Müller N. ; Heinzmann U. ; Pettenkofer C. ; Klein A. ; Blaha P.

Band symmetries of GaSe(0001) studied by spin-resolved electron spectroscopy using circularly polarized radiation

Physical Review B
69 (2004) 045320/1 - 7

SE6.Interfaces

Tonti D. ; Pettenkofer C. ; Jaegermann W.

Origin of the electrochemical potential in intercalation electrodes: experimental estimation of the electronic and ionic contributions for Na intercalated into TiS_2

Journal of Physical Chemistry B
108 (2004) 16093 - 16099

I - Central Scientific-Technical Infrastructure

DN - Zentrale DV-Systeme und Netze

SF3.Light weight mat.

Garcia Moreno F. ; Fromme M. ; Banhart J.

Real time X-ray radioscopy on metallic foams using a compact micro-focus source

Advanced Engineering Materials

6 (6) (2004) 416 - 420

Conference Contributions

SF - Structural Research

SF - BENSC

SF1.BENSC

Invited Talk

G. Zsigmond, K. Lieutenant, S. Manoshin, H. N. Bordallo, J. D. M. Champion, J. Peters, J. M. Carpenter, F. Mezei

A survey of simulations of complex neutronic systems by VITESS

Joint Meeting on Neutron Optics and Detectors

Tokyo 12. Jan - 16. Jan 2004

Oral

Habicht, K.

On dispersion curvature correction

Semiannual meeting (PNT-II) of Polarized Neutron Techniques Joint Research Activity in NMI3

LLB Saclay France 18. Nov - 19. Nov 2004

Invited Talk

Jauch, W.

Electron densities in prototypic antiferromagnets from gamma-ray diffraction

22nd European Crystallographic Meeting

Budapest (Ungarn) 26. Aug - 31. Aug 2004

Invited Talk

Jauch, W.

Charge density studies of prototypic antiferromagnets by gamma-ray diffraction

XVI International School on Physics and Chemistry of Condensed Matter

Bialowieca (Polen) 01. Jul - 10. Jul 2004

Poster

Manke, I., Kardjilov, N., Strobl, M., Hilger, A., Treimer, W., Haibel, A., Rack, A., Zabler, S., Rueda, A., Scholta, J., Hartnig, C., Jörissen, L., Lehnert, W.

Tomographie und Radiographie an Brennstoffzellen

Forschungsverbund Sonnenenergie Jahrestagung

Umweltforum Berlin 25. Nov - 26. Nov 2004

Invited Talk

Mezei, F.

Less Conventional Approaches to Optimize Time-of-Flight Spectrometers

Workshop on Inelastic Neutron Spectroscopy 2004

Tokai, Japan 02. Dec - 05. Dec 2004

Invited Talk

Mezei, F.

Neutron Scattering Instruments for the Study of Magnetism

LANSCE Winter School on Neutron Scattering

Los Alamos, USA 10. Jan - 15. Jan 2004

Invited Talk

Mezei, F.

Time-of-flight Diffraction at CW Neutron Sources

EXED workshop

HMI, Berlin 10. May - 12. May 2004

Oral

Novikov, A.G.; Rodnikova, M.N.; Sobolev, O.

Hydration Effects in Aqueous Solutions and Diffusion Mobility

Germany - JINR User Meeting

Dubna, Russia 12. Jun - 16. Jun 2004

Oral

Peters, J.

VITESS simulations of the new TOF powder diffractometer EXED at the HMI

SCANS / MCNSI Meeting

Cosener's House, Abingdon UK 05. Feb - 06. Feb 2004

Oral

Peters, J.; Clemens, D.; Lieutenant, K.; Mezei, F.

Novel time-of-flight diffractometer for very high resolution and extreme sample environment

American Conference on Neutron Scattering 2004

College Park, Maryland, USA 06. Jun - 10. Jun 2004

Oral

Pieper, J., Irrgang, K.-D., Renger, G., Lechner, R.E.,

Density of States of Low-Frequency Protein Vibrations in the Light-Harvesting Complex II of Green Plants

International Workshop on Light-Harvesting Systems

St. Adele (Kanada) 26. Aug - 29. Aug 2004

Invited Talk

Pieper, J., Irrgang, K.-D., Weiß, M., Hauß, Th., Dencher, N. A., Renger, G., Lechner, R.E.,

Light-induced Protein Dynamics in Photosynthetic Chromophor-Protein Complexes

7th International Conference on Quasielastic Neutron Scattering (QENS 2004)

Arcachon (Frankreich) 01. Sep - 04. Sep 2004

Invited Talk

Pieper, J., Irrgang, K.-D., Weiß, M., Hauß, Th., Renger, G., Lechner, R.E.

Protein Dynamics in Photosynthetic Pigment-Protein Complexes

11th International Conference on Neutron Scattering Investigations in Condensed Matter

Poznan (Polen) 06. May - 08. May 2004

Poster

Schemmel, S.; Shi, H.; Zhang, S.; Akcakayiran, D.; Steitz, R.; Findenegg, G.H.

Surfactant mediated and Interfacial Structures

Annual Meeting of the DFG Priority Program 1052

Pforzheim 17. Feb - 20. Feb 2004

Oral

Steitz, R.; Schemmel, S.; Krastev, R.; Müller-Buschbaum, P.; Cubitt, R.; Findenegg, G. H.;

Water depletion and nanobubbles at a solid/liquid interface

14th Ostwald-Kolloquium

Berlin 22. Nov - 23. Nov 2004

Oral

Steitz, R.; Schemmel, S.; Müller-Buschbaum, P.; Cubitt, R.; Findenegg, G. H.;

Water depletion and nanobubbles at a solid/liquid interface

Deutsche Neutronenstreuungstagung 2004

Dresden 01. Sep - 04. Sep 2004

Invited Talk

Strobl, M.

Tomography at HMI - Status and Projects in Progress

BENSC Usermeeting

HMI 14. May - 14. May 2004

Poster

Strobl, M., Treimer, W., Hilger, A.

Application of Double Crystal Diffractometers for the Tomographic Reconstruction of Macroscopic Structures

American Conference on Neutron Scattering (ANCS)
College Park, Maryland, USA 06. Jun - 10. Jun 2004

Oral

Strobl, M., Treimer, W., Hilger, A.

Three dimensional refraction contrast tomography

International Topical Meeting on Neutron Radiography (ITMNR)
TU München, Garching 26. Jul - 30. Jul 2004

Oral

Strobl, M., Treimer, W., Hilger, A.; Kardjilov, N.

Tomography with monochromatic neutrons

Deutsche Neutronenstreutagung
TU Dresden 01. Sep - 04. Sep 2004

Oral

Treimer, W., Hilger, A., Kardjilov, N., Strobl, M.

Neutron Tomography with CONRAD at HMI Berlin

Neutron Tomography Meeting
Abington, ISIS, England 28. Mar - 28. Mar 2004

Oral

Treimer, W., Strobl, M., Hilger, A., Kardjilov, N.

Review about incoherent and coherent computerized neutron tomography

World Conf. on Non-Destructive Testing
Montreal, Canada 30. Aug - 30. Aug 2004

Poster

Wilpert Th.; Gebauer, B.; Altmann W.; Namaschk B.; Levchanovski F.V.; Prikhodko V.I.; Schulz, Ch.

Adequate Electronics for efficient Experiments

PSND2004
Tokyo, Japan 13. Jan - 16. Jan 2004

SF2.BENSC

Invited Talk

Rupp, A.

Polarised ^3He at HMI - status quo and plans

(PNT & NSF)-JRA Joint Meeting
Grenoble 18. Mar - 19. Mar 2004

SF3.BENSC

Poster

Babcsan, N.; Banhart, J.; Leitmeier, D.; Garcia-Moreno, F.

The Mechanisms of Stabilization of Liquid Metal Foams

International Workshop of Bubble and Drop Interfaces
Genova - Italy 25. Apr - 28. Apr 2004

Oral

Baumbach, T.; Helfen, L.; Schladitz, K.; Pernot, P.; Stanzick H.; Banhart, J.

High-resolution microtomography and fast radiography for real-time and in-situ characterisation of porous microstructures.

16th World Conference on Non-destructive Testing
Montreal (Canada) 30. Aug - 30. Aug 2004

Poster

Garcia-Matres, E. Perroud, O. Kumar, G. Wiedenmann, A.

Small Angle Neutron Scattering studies of hard magnetic Nd₆₀FexCo_{30-x}Al₁₀ (x=20, 7.5 and 0) bulk amorphous alloys.

7th International Conference on Nanostructured Materials
Wiesbaden 20. Jun - 24. Jun 2004

Poster

Garcia-Matres, E.; Perroud, O.; Wiedenmann, A.; Kumar, G.; Eckert, J.

SANSPOL studies of hard magnetic Nd₆₀FexCo_{30-x}Al₁₀ bulk amorphous alloys

Deutsche Neutronenstreuung
Dresden 01. Sep - 04. Sep 2004

Invited Talk

Garcia-Matres, E.; Perroud O.; Kumar, G.; Wiedenmann A.;

Magnetic and crystalline nanostructure in Nd-Fe-Co-Al bulk amorphous alloys studied by SANSPOL

Sociedad española de técnicas neutrónicas and XV Symposium del grupo especializado de cristalografía.

Tenerife 20. Sep - 25. Sep 2004

Invited Talk

Kardjilov, N.

Simulation of neutron radiography experiments

International Topical Meeting on Neutron Radiography - 5
München, Deutschland 26. Jul - 26. Jul 2004

Oral

Kardjilov, N.; Banhart, J.; Dierick, M.; Hilger, A.; Masschaele, B.

Real-time imaging with a high flux cold neutron beam at HMI

International Topical Meeting on Neutron Radiography-5
München, Deutschland 26. Jul - 30. Jul 2004

Poster

Kardjilov, N.; Böni, P.; Hilger, A.; Strobl, M.; Treimer, W.

INVESTIGATION OF A FOCUSING PARABOLIC GUIDE BY A RADIOGRAPHIC METHOD

International Topical Meeting on Neutron Radiography-5
München, Deutschland 26. Jul - 30. Jul 2004

Poster

Kardjilov, N.; Hilger, A.; Manke, I.; Strobl, M.; Treimer, W.; Banhart, J.

Tomographie und Radiographie mit Neutronen für industrielle Anwendungen

Werkstoffwoche 2004

München 21. Sep - 23. Sep 2004

Poster

Kardjilov, N.; Hilger, A.; Rustichelli, F.; Strobl, M.; Triolo, R.; Banhart, J.

Neutron tomography for archaeological investigations

1st International Meeting "Rileggere l'Antico"

Rom, Italien 13. Dec - 15. Dec 2004

Oral

Kardjilov, N.; Lehmann, L.; Vontobel, P.; Sim, C. M.; Lee, S. W.; Lim, I. C.

Improving the image contrast and resolution in the phase contrast neutron radiography

International Topical Meeting on Neutron Radiography-5
München, Deutschland 26. Jul - 30. Jul 2004

Oral

Kardjilov, N.; de Beer, F.; Hassanein, R.; Lehmann, E.; Vontobel, P.

SCATTERING CORRECTIONS IN NEUTRON RADIOGRAPHY USING POINT SCATTERED FUNCTIONS

International Topical Meeting on Neutron Radiography-5
München, Deutschland 26. Jul - 30. Jul 2004

Oral

Manke, I.; Kardjilov, N.; Hilger, A.; Strobl, M.; Treimer, W.; Banhart, J.

The new cold neutron radiography and tomography facility at the Hahn-Meitner-Institut and industrial applications

ITMNR-5 Fifth International Topical Meeting on Neutron Radiography
München 26. Jul - 30. Jul 2004

Poster

Saroun, J.; Kocik, J.; García-Matres, E.; Muransky, O.; Strunz, P.

Characterisation of irradiation-induced precipitates in reactor pressure vessel steels

European Powder Diffraction Conference
Prague 02. Sep - 05. Sep 2004

Oral

Treimer, W.; Hilger, A.; Kardjilov, N.; Strob, M.; Manke, I.

REVIEW ABOUT OLD AND NEW IMAGING SIGNALS FOR NEUTRON TOMOGRAPHY

International Topical Meeting on Neutron Radiography-5
München, Deutschland 26. Jul - 30. Jul 2004

Invited Talk

Wiedenmann, A.

Nanostructures probed by SANS

Workshop on X-ray and Neutron Scattering
Daejeon, Korea 09. Dec - 10. Dec 2004

SF - ISL

ISL Accelerator

Invited Talk

Bundesmann, J.

CODIAN, a portable control system

Second LEIF Labview workshop
Wien 24. Aug - 26. Aug 2004

Oral

Homeyer, H.

Status of ISL

International Conference on Cyclotrons and Their Applications
Tokio 18. Oct - 22. Oct 2004

ISL Development

Poster

Opitz-Coutureau, J.; Bundesmann, J.; Denker, A.; Homeyer, H.

Installation of the Berlin Ion Beam Exposure and Research Facility (BIBER)

Radiation Effects on Components and Systems RADECS 2004
Madrid, Spanien 22. Sep - 24. Sep 2004

ISL.PPT

Invited Talk

*Heufelder, J.***Die Protonentherapie aus medizinphysikalischer Erfahrung**

Statusseminar Protonentherapie in Berlin

Berlin 02. Dec - 02. Dec 2004

Oral

*Heufelder, J.; Cordine, D.; Kluge H.***Ein schnelles zweidimensionales Messverfahren zur arbeitstäglichen Überprüfung des Dosisprofils eines 68 MeV-Protonenstrahls für die Behandlung von Augentumoren.**

35. Jahrestagung der Deutschen Gesellschaft für Medizinische Physik

Leipzig 22. Sep - 25. Sep 2004

Oral

*Stark, R.; Seiler, F.; Cordini, D.; Heufelder, J.; Höcht, S.; Bechrakis, N.E.; Foerster, M.H.; Hinkelbein, W.***Protonen- oder stereotaktische Photonenbestrahlung beim posterioren Aderhautmelanom? In: Protonen- oder stereotaktische Photonenbestrahlung beim posterioren Aderhautmelanom?**

35. Jahrestagung der Deutschen Gesellschaft für Medizinische Physik

Leipzig 22. Sep - 25. Sep 2004

Oral

*Weber, A.; Cordini, D.; Heufelder, J.; Homeyer, H.; Kluge, H.; Simiantonakis, I.; Stark, R.***A Proton Therapy Facility with Simultaneous Treatment Capability**

Particle Therapy Co-Operative Group (PTCOG), 41st Meeting

Bloomington, Indiana, USA 10. Oct - 13. Oct 2004

ISL.User

Oral

*Beuttler, M.; Bolse, W.; Kreissig, U.; Bohne, W.***Ionenstrahlinduzierte Grenzflächendurchmischung in isotopenmarkierten Schichtsystemen**

AKF-Frühjahrstagung

Regensburg 08. Mar - 12. Mar 2004

Invited Talk

*Bohne, W.; Röhrich, J.; Strub, E.***Quantitative Element Profiling of Thin Films by Means of Elastic Recoil Detection Analysis (ERDA) with High Energetic Heavy Ions**

AVS 51st International Symposium

Anaheim, CA USA 14. Nov - 19. Nov 2004

Invited Talk

*Denker, A.***Schneller Wasserstoff als Spürhund**

Kolloquium Studiengang Restaurierung/Grabungstechnik an der FHTW

Berlin 20. Jan - 20. Jan 2004

Oral

*Denker, A.***Influence of corrosion layers on quantitative analysis**

ARCHAEOOMETRY WITH IBA AND RELATED METHODS

Ljubljana, Slovenia 09. Jun - 10. Jun 2004

Invited Talk

*Denker, A.; Bohne W.; Homeyer, H.; Opitz-Coutureau, J.; Röhrich, J.; Strub, E***APPLICATIONS OF HIGH-ENERGY IONS IN MATERIALS SCIENCE**

17th International Conference on Cyclotrons and their applications

Tokio, Japan 18. Oct - 22. Oct 2004

Oral

Denker, A.; Bohne, W. Campbell, J.L.; Heide, P.; Hopman, T.; Maxwell, J.A.; Opitz-Coutureau, J.; Rauschenberg, J.

Hochenergie PIXE - quantitative Analyse und Wirkungsquerschnitte

Forschungsverbund Ionen und nukleare Sonden
Stuttgart 30. Sep - 01. Oct 2004

Invited Talk

Denker, A.; Homeyer, H.; Opitz-Coutureau, J.

APPLICATIONS OF HIGH-ENERGY IONS FOR INDUSTRIAL PURPOSES

8th European Conference on Accelerators in Applied Research and Technology
Paris 20. Sep - 24. Sep 2004

Oral

Denker, A.; Opitz-Coutureau, J.; Griesser, M.; Denk, R.; Winter, H.

Zerstörungsfreie Elementanalyse an mittelalterlichen Wiener Pfennigen

Archäometrie und Denkmalpflege Jahrestagung 2004
Mannheim 06. Oct - 08. Oct 2004

Invited Talk

Denker, A.; Opitz-Coutureau, J.; Rauschenberg, J.; Campbell, J.L.; Maxwell, J.A.; Hopman, T.

Quantitative Analysis using very energetic protons

10th International Conference on particle Induced X-ray Emission and its analytical applications
Portoros, Slovenia 04. Jun - 08. Jun 2004

Invited Talk

Heufelder, J.

5 Jahre Protonentherapie von Augentumoren Erfahrungen und Ergebnisse

Monatliches Colloquium der DGMP
Berlin 08. Jun - 08. Jun 2004

Poster

Höcht, S.; Bechrakis, N.E.; Foerster, M.H.; Hinkelbein, W.; Heufelder, J.; Cordini, D.; Homeyer, H.; Kluge H.

Strahlentherapie von Augentumoren mit Protonen Das Berliner Protonentherapieprojekt - Erste Erfahrungen

Hauptstadtkongress 2004
Berlin 02. Jun - 04. Jun 2004

Poster

Höcht, S.; Bechrakis, N.E.; Wiegand, T.; Krause, L.; Wachtlin, J.; Kluge, H.; Homeyer, H.; Martus, P.; Foerster, M.H.; Hinkelbein, W.

5 years of experience in proton therapy for ocular tumors in Germany

26. Deutscher Krebskongress
Berlin 27. Feb - 01. Mar 2004

Oral

Papathanasiou, O.; Siebentritt, S.; Bohne, W.; Strub, E.; Röhrich, J.; Calvet, W.; Pettenkofer, Ch.; Kristukat, Ch.; Lux-Steiner, M.

Cd-freie Pufferschichten für die Anwendung in CuInS₂ Dünnschichtsolarzellen

AKF-Frühjahrstagung
Regensburg 08. Mar - 12. Mar 2004

Invited Talk

Strub, E.

Elastic Recoil Detection Analysis (ERDA) am Ionenstrahllabor des Hahn-Meitner-Instituts

Seminar im Institut für Kernchemie der Universität Mainz
Mainz 14. Jul - 14. Jul 2004

Oral

Strub, E.

Chemical Information Obtained by ERDA measurements

ECAART 2004

Paris 20. Sep - 24. Sep 2004

Poster

Strub, E., Bohne, W., Röhrich, J.

Characterization of thin film solar cells by Heavy-Ion ERDA

ECAART 2004

Paris 20. Sep - 24. Sep 2004

Poster

Strub, E., Bohne, W., Röhrich, J.

Characterization of thin layers by Heavy-Ion ERDA

PSE 2004

Garmisch-Partenkirchen 13. Sep - 17. Sep 2004

Invited Talk

Strub, E., Bohne, W., Röhrich, J.

CHEMISCHE INFORMATION AUS ERDA-MESSUNGEN

IGAS-Kolloquium

Berlin 17. Nov - 17. Nov 2004

Poster

Thamm, T., Körner, K.-U., Bohne, W., Röhrich, J., Strub, E., Stöckel, S., Marx, G.

Characterization of PECVD Boron Carbonitride layers

AOFA 2004

Dresden 14. Sep - 17. Sep 2004

Poster

Thamm, T., Körner, K.-U., Stöckel, S., Strub, E., Bohne, W., Röhrich, Marx, G.

PECVD-Abscheidung von harten Schichten im System B-C-N

7. Werkstofftechnisches Kolloquium 2004

Chemnitz 30. Sep - 01. Oct 2004

Oral

Zeit, W.-D.; Hattendorf, J.; Bohne, W.; Röhrich, J.; Strub, E.; Abrasimov, N. V.

Investigations on the diffusion of boron in SiGe mixed crystals

HFI 2004

Bonn 23. Aug - 27. Aug 2004

SF - BESSY

SE6.BESSY

Oral

Hunger, R.; Jaegermann, W.; Calvet, W.; Lehmann, C.; Pettenkofer, C.; Sakurei, K.; Niki, S.

Angle-resolved photoelectron spectroscopy of CuInSe₂(001)

DPG-Frühjahrstagung (AKF)

Regensburg 08. Mar - 12. Mar 2004

Poster

Lehmann, C.; Calvet, W.; Pettenkofer, C.

Epitaxial CuInS₂ on Si(111) using di-tert-butyl disulfide as sulphur precursor

EMRS spring meeting

Strasbourg 24. May - 28. May 2004

Oral

Lehmann, C.; Calvet, W.; Pettenkofer, C.

Metal organic molecular beam epitaxy (MOMBE) of CuInS₂ on Si(111)

DPG-Frühjahrstagung (AKF)

Regensburg 08. Mar - 12. Mar 2004

Invited Talk

Pettenkofer, C.

Gennesys, Photovoltaics

Gennesys WorkshopFZJ

Jülich 15. Apr - 15. Apr 2004

Oral

Schmidt, P.-M.; Winter, B.; Weber, R.; Freyer, W.; Hertel, I.V.; Pettenkofer, C.; Faubel, M.

The triiodide equilibrium in water investigated by photoemission

DPG-Frühjahrstagung (AKF)

Regensburg 08. Mar - 12. Mar 2004

SF2.BESSY

Poster

Getzlaff, M.; Gebhardt, R.K.; Bulut, F.; Schmitz, D.; Holub-Krappe, E.; Maletta, H.; Kleibert, A.; Methling, J.; Bansmann, J.; Meiwes-Broer, K.-H.

Mass-filtered ferromagnetic alloy clusters on surfaces

DPG Frühjahrstagung, Fachverband Magnetismus

Regensburg 08. Mar - 12. Mar 2004

Poster

Imperia, P.

Effect of Ar⁺ and H⁺ etching on the magnetic properties of Co/CoO core-shell nanoparticles

IVth International School on Magnetism and Synchrotron Radiation

Mittelwihr, France 10. Oct - 16. Oct 2004

Poster

Imperia, P.; Schmitz, D.; Maletta, H.; Sobal, N.S.; Giersig, M.

Effect of Ar⁺ and H⁺ etching on the magnetic properties of Co/CoO core-shell nanoparticles

Bessy Users' meeting,

Bessy, Berlin 02. Dec - 03. Dec 2004

Invited Talk

Krappe, H.-J.; Rossner, H. H.

Bayes' method in the calibration of EXAFS data

Status Seminar: Soft X-ray XAFS at L-edges

HMI, Berlin 18. Nov - 19. Nov 2004

Poster

Rack, A.; Zabler, S.; Haibel, A.; Rueda, A.; Manke, I.; Weidemann, G.; Riesemeier, H.; Goebbels, J.; Banhart, J.

High Resolution Synchrotron-Tomography

Bessy Usermeeting 2004

Berlin, Germany 02. Dec - 03. Dec 2004

Poster

Rossner, H., Schmitz, D., Imperia, P., Maletta, H.

First MEXAFS experiments at UE46-PGM

23rd BESSY user meeting

Berlin 02. Dec - 03. Dec 2004

Oral

Rossner, H.H.; Schmitz, D.; Imperia, P.; Maletta, H.; Krappe, H.J.

Bayes-Turchin EXAFS Analysis at Fe L-Edges

Status Seminar: Soft X-ray XAFS at L-edges

HMI, Berlin 18. Nov - 19. Nov 2004

SF3.BESSY

Poster

Bütow, A., Haibel, A., Matijasevic, B., Helwig, H.-M., Rack, A., Banhart, J.

Strukturuntersuchungen an Metallschäumen in verschiedenen Schäumstadien

DPG-Tagung

Regensburg 08. Mar - 08. Mar 2004

Invited Talk

Haibel, A.

Synchrotron-Tomographie zur Charakterisierung komplexer Materialsysteme

3.Seminar zur Nutzung des Wellenlängenschieber-Messplatzes bei BESSY

Berlin 29. Nov - 30. Nov 2004

Poster

Haibel, A., Kardjilov, N., Manke, I.

Tomographie und Radiographie an Brennstoffzellen

Tagung: Wasserstoff und Brennstoffzellen - Energieforschung im Verbund, Jahrestagung des Forschungsverbunds Sonnenenergie (FVS)

Berlin 25. Nov - 26. Nov 2004

Oral

Haibel, A., Rack, A., Banhart, J.

Anordnungsmechanismen porenstabilisierender Partikel im Metallschaum

DPG-Tagung

Regensburg 08. Mar - 08. Mar 2004

Poster

Haibel, A.; Rack, A.; Manke, I.; Riesemeier, H.; Goebbels, J.; Banhart, J.

Synchrotron-Tomographie am BESSY

Werkstoffwoche 2004

München 21. Sep - 23. Sep 2004

Poster

Haibel, A.; Rack, A.; Riesemeier, H.; Goebbels, J.; Weidemann, G.; Banhart, J.

Synchrotron-Tomographie am BESSY

25. Heidelberger Bildverarbeitungsforum - Neue mathematische Methoden für die Bildverarbeitung

Kaiserlautern, Deutschland 06. Jul - 06. Jul 2004

Poster

Kühbacher, M.; Weseloh, G.; Kyriakopoulos, A.; Behne, D.

Molekulare Spurenelementforschung mit Synchrotronstrahlung an der BAMline

3. BAMline-Seminar 29./30.11.2004

Berlin 29. Nov - 30. Nov 2004

Oral

Rack A., Haibel A., Matijasevic B., Riesemeier R., Weidemann G., Goebbels J., Banhart J.

Charakterisierung von Metallschäumen mittels Synchrotron-Tomographie und 3D-Bildanalyse

Deutsche Physikalische Gesellschaft e. V. (DPG)

Regensburg 10. Mar - 10. Mar 2004

Poster

Rack, A., Zabler, S., Haibel, A., Manke, I., Rieseemeier, H., Weidemann, G., Goebbels, J., Banhart, J.

High Resolution Synchrotron Tomography

BESSY-Usertreffen

Berlin 02. Dec - 03. Dec 2004

Oral

Rack, A.; Haibel, A.; Bütow, A.; Matijasevic, B.; Banhart, J.

CHARACTERIZATION OF METAL FOAMS WITH SYNCHROTRON-TOMOGRAPHY AND 3D IMAGE ANALYSIS

16th World Conference on Nondestructive Testing 2004

Montreal, Kanada 30. Aug - 03. Sep 2004

SF4.BESSY

Invited Talk

Chen, W.; Neumann, W.; Darowski, N.; Zizak, I.; Wanderka, N.; Schumacher, G.

Measurement of Lattice Mismatch between gamma prime Precipitates and gamma Matrix in Single Crystal Superalloy SC16

11. Jahrestagung der Deutschen Gesellschaft für Kristallographie

Humboldt Universität zu Berlin 10. Mar - 10. Mar 2004

Poster

Darowski, N.; Zizak, I.; Schumacher, G.; Klingelhöffer, H.; Chen, W.; Neumann, W.

Determination of FWHM of gamma prime Phase in Creep-deformed Superalloy SC16 using Synchrotron Radiation

BESSY users' meeting 2004

Berlin 02. Dec - 03. Dec 2004

Poster

Darowski, N.; Zizak, I.; Schumacher, G.

Surface and bulk amorphization of InP induced by swift heavy ion irradiation

BESSY users' meeting 2004

Berlin 02. Dec - 03. Dec 2004

Poster

Darowski, N.; Zizak, I.; Schumacher, G.

Surface and bulk structural changes in InP single crystals induced by 350 MeV Au ion irradiation

8th international conference on surface x-ray and neutron scattering

Bad Honnef 28. Jun - 02. Jul 2004

Poster

Darowski, N.; Zizak, I.; Schumacher, G.; Klingelhöffer, H.; Chen, W.; Neumann, W.

Temperature Dependence of FWHM of gamma - Phase in Creep-deformed Single Crystal Superalloy SC16

7th Biennial Conference on High Resolution X-Ray Diffraction and Imaging

Pruhonice 07. Sep - 10. Sep 2004

Oral

Darowski, N.; Zizak, I.; Schumacher, G.; Klingelhöffer, H.; Chen, W.; Neumann, W.

Effect of Tensile and Compressive Creep Deformation on Gamma/Gamma prime Lattice Mismatch in Single Crystal Superalloys

BESSY users' meeting

Berlin 02. Dec - 03. Dec 2004

Invited Talk

Griesser, M.; Denker, A.; Mendoza, A.; Oberthaler, E.; Zhuber-Okrog, K.; Diehl, J.; Denk, R.; Opitz-Coutureau, J.; Markowicz A.

Non-destructive investigation of artworks using portable XRF and high-energy PIXE/PIGE

Workshop

Malta Centre for Restoration, Malta 08. Jan - 08. Jan 2004

Oral

Mahnke, H.-E.; Haas, H.; Koteski, V.; Novakovic, N.; Fochuk, P.; Panchuk, O.

Lattice relaxation around dopants in CdTe

Arbeitsreffen Forschung mit nuklearen Sonden und Ionenstrahlen FSI 2004

Stuttgart 29. Sep - 01. Oct 2004

Oral

Rauschenberg, J.; Bohne, W.; Denker, A.; Heide, P.; Opitz-Coutureau, J.; Röhrich, J.; Strub, E.

Measurements of high-energy PIXE cross sections with 68 MeV protons for various thin target elements

10th International Conference on Particle Induced X-ray Emission and its analytical applications

Portoroz, Slovenien 04. Jun - 08. Jun 2004

SF1 - Methods and Instruments**SF1.Dynamics**

Poster

*Bordallo, H.N.; Desmedt, A.; Aldridge L.***Quasi-elastic neutron scattering study of constrained water in hydrated cement pastes**

7th International Conference on Quasi-elastic neutron scattering

Arcachon, France 01. Sep - 04. Sep 2004

Poster

*Bordallo, H.N.; Manson J.L.; Hernández-Velasco J.; Argyriou D.N.***Spin excitations in molecular based magnets probed by neutron scattering**

7th International Conference on Quasi-elastic neutron scattering

Arcachon, France 01. Sep - 04. Sep 2004

Poster

*N. Bordallo, H.; Eckert, J.***Dynamics of the Metallic State of Layered La_{1.2}Sr_{1.8}Mn₂O₇ investigated by Inelastic Neutron Scattering**

Workshop on Neutrons & numerical methods 2

ILL, Grenoble, FRANCE 14. Sep - 18. Sep 2004

Invited Talk

*Vorderwisch, P.; Stuhr, U.; Shapiro, S.M.***Phonon dispersion in der ferromagnetischen Formgedächtnislegierung Ni₂MnGa**

Deutsche Neutronenstreutagung 2004

Dresden 01. Sep - 04. Sep 2004

Invited Talk

*Vorderwisch, P.; Stuhr, U.; Shapiro, S.M.***Phonon dispersion in the ferromagnetic shape memory alloy Ni₂MnGa studied by neutron spectroscopy**

XIII International Materials Research Congress with Symposium on Magnetic Shape Memory Alloys

Cancun, Mexico 22. Aug - 26. Aug 2004

SF1.Methods

Poster

*Krist, Th., Peters, J., Shimizu, H. M., Suzuki, J., Oku, T.***Transmission bender for polarizing neutrons**

Polarized Neutrons in condensed matter investigations

Washington 01. Jun - 06. Jun 2004

Oral

*Manochine, S.; Drabkin, G.; Mezei, F.***Simulations of double Drabkin 2-PI resonators (DR)**

Joint VITESS and McStas Training Course and Workshop, ISIS facility

UK, Abingdon 05. Feb - 06. Feb 2004

Oral

*Manoshin, S.; Lieutenant, K.; Zsigmond, G.; Clemens, D.; Mezei, F.***MC simulations of a new VSANS spectrometer at the Hahn-Meitner-Institute Berlin**

NOBUGS 2004 Conference, October 18-20 2004, Paul Scherrer Institute Villigen, PSI, Switzerland

Villigen, PSI, Switzerland 18. Oct - 20. Oct 2004

Invited Talk

*Mezei, F.***Neutron Scattering Instruments for the Study of Magnetism**

LANSCE Winter School on Neutron Scattering

Los Alamos, NM, USA 10. Jan - 12. Jan 2004

Invited Talk

Mezei, F.

Time-of-flight Diffraction at CW Neutron Sources

EXED Workshop

HMI 09. May - 11. May 2004

Invited Talk

Mezei, F.

Polarized Neutron Scattering Research, the Beginnings and a Glimpse of the Future

Conference on Polarized Neutron in Condensed Matter Investigations 2004

Washington, USA 01. Jun - 04. Jun 2004

Invited Talk

Mezei, F.

The European Spallation Source Project

Common meeting of the Hungarian and Austrian Physical Societies

Szombathely, Hungary 14. Aug - 15. Aug 2004

SF1.Others

Oral

Krist, T., Mezei, F.

Neutron optical elements from HMI Berlin

American Conference on Neutron Scattering

College Park, Maryland 06. Jun - 10. Jun 2004

Invited Talk

Steitz, R.; Schemmel, S.; Findenegg, G. H.;

New aspects of water depletion and nanobubbles at extended solid/liquid interfaces

French-German Network - Complex Fluids: from 3 to 2 Dimensions

Toulouse 12. May - 15. May 2004

Oral

Steitz, R.; Schemmel, S.; Howse, J.; Findenegg, G. H.;

The microscopic structure of interfaces

Annual Meeting of the DFG Priority Program 1052

Pforzheim 17. Feb - 20. Feb 2004

Invited Talk

Steitz, R.; Shi, H.; Findenegg, G. H.;

Microstructured PEO-PPO-PEO block copolymer layers on silicon wafers

French-German Network - Complex Fluids: from 3 to 2 Dimensions

Münster 18. Nov - 20. Nov 2004

SF1.Spallation

Invited Talk

Lieutenant, K.; Zsigmond, G.; Fromme, M.; Manoshin, S.

General features of the neutron instrument simulation package VITESS

New Opportunities for Better User Group Software (NOBUGS) 2004

PSI, Schweiz 18. Oct - 20. Oct 2004

Invited Talk

Lieutenant, K.; Zsigmond, G.; Fromme, M.; Manoshin, S.

New features in Vitess 2.5 and 2.5.1

MCNSI-Meeting

Villigen, Schweiz (PSI) 21. Oct - 21. Oct 2004

Invited Talk

Lieutenant, K.; Zsigmond, G.; Manoshin, S.; Fromme, M.; Bordallo, H.N.; Champion, J.D.M.; Peters, J.; Mezei, F.

Neutron instrument simulation and optimization using the software package VITESS

SPIE International Symposium

Denver 02. Aug - 06. Aug 2004

SF2 - Magnetism

SF1.Dynamics

Poster

Bordallo, H.N. ; Manson J.L.; Hernández-Velasco J.; Argyriou D.N.

Spin excitations in molecular based magnets probed by neutron scattering

7th International Conference on Quasi-elastic neutron scattering

Archachon, France 01. Sep - 04. Sep 2004

SF2.Others

Invited Talk

Holub-Krappe, E.; Anderson, C.; Konishi, T.; Karis, O.; Maletta, H.; Arvanitis, D.

Spin Reorientation in Thin Au/Co/Au Films

IV th International Schol on Magnetism and Synchrotron Radiation

Mittelwihr, Frankreich 10. Oct - 15. Oct 2004

SF4.Structures

Poster

Mahnke, H.-E.; Haas, H.; Holub-Krappe, E.; Koteski, V.; Novakovic, N.; Fochuk, P.; Panchuk, O.

LATTICE DISTORTION AROUND IMPURITY ATOMS AS DOPANTS IN CdTe

E-MRS Spring 2004, Symposium O

Strasbourg 25. May - 28. May 2004

SF3 - Materials

SF3.Light weight mat.

Poster

Babcsan, N.

Cellular Materials

Fraunhofer Workshop

Budapest 11. Mar - 12. Mar 2004

Oral

Babcsan, N.; Garcia-Moren, F.; Leitmeier, D.; Banhart, J.

INFLUENCE OF GRAVITY ON METAL FOAM FORMATION

Solidification and Gravity 04

Miskolc-Lillafured, 06. Sep - 10. Sep 2004

Oral

Babcsan, N.; Garcia-Moreno, F.; Leitmeier, D.; Banhart, J.

THE MECHANISMS OF STABILIZATION OF LIQUID METAL FOAMS

EUFOAM

Paris, France 05. Jul - 08. Jul 2004

Poster

Babcsan, N.; Kim, S.Y.; Hur, B.Y.; Banhart, J.

EX-SITU EXAMINATION OF ALPORAS TYPE METAL FOAMS

EUFOAM

Paris, France 05. Jul - 08. Jul 2004

Invited Talk

Babcsan, N.; N. Babcsán1, García-Moreno, F.; Leitlmeier, D.; Banhart, J.

METAL FOAMS - AIRY MATERIALS

Junior Euromat 2004

Lausanne, Switzerland 06. Sep - 09. Sep 2004

Poster

Babcsan, N.; Meier, M.; Garcia-Moreno, F.; Leitlmeier, D.; Banhart, J.

Measurements on cell walls and Plateau borders of particle stabilized foams

EUFOAM

Paris, France 05. Jul - 08. Jul 2004

Oral

Banhart, J.

Industrialisation of aluminium foam technology

9th International Conference on Aluminium Alloys (2004), Brisbane (AUS)

Brisbane (AUS) 02. Aug - 05. Aug 2004

Poster

Meier, M.; Tappe, S.; Babcsan, N.

Behaviour of low density solid particles during drainage of a foam

EUFOAM

Paris, France 05. Jul - 08. Jul 2004

SF3.Microstructure

Invited Talk

Abromeit, C.

Fe-Ni Invar alloy: an example of fractal decomposition?

XVI International Conference on Physics of Radiation Phenomena and Radiation Material Science

Alushta (Ukraine) 06. Sep - 11. Sep 2004

Invited Talk

Abromeit, C.

Compositional instabilities in binary alloys under irradiation

Workshop on Irradiation Effects and Recovery on Materials

University of Tokyo, Japan 02. Dec - 02. Dec 2004

Poster

Griesche, A.; Macht, M.-P.; Garandet, J.-P.; Frohberg, G.

Diffusion and Viscosity in Pd40Ni40P20 and Pd40Cu30Ni10P20 Melts

Workshop on Dynamics in Viscous Liquids

Munich 14. Mar - 17. Mar 2004

Oral

Lazarev, N.P.; Bakai, A.S.; Abromeit, C.

Molecular Dynamics Simulation of Viscosity in Supercooled Liquid and Glassy AgCu Alloy

XIIth International Conference on Liquid and Amorphous Metals LAM 12

Metz (France) 11. Jul - 17. Jul 2004

Invited Talk

Wanderka, N.

3 dimensional atom probe: new dimensions in material analysis (bulk metallic glasses and Ni-based superalloy IN 706)

16. International Conference on Physics of radiation phenomena and radiation material science
Alushta, Ukraine 06. Sep - 11. Sep 2004

Invited Talk

Wanderka, N., Macht, M.-P.

Bulk metallic glasses, behaviour and possible application

Workshop über Nanomaterials and Nanotechnology
Tehran, Iran 02. May - 04. May 2004

SF3.Nanostructures

Oral

Perroud, O.; Garcia-Matres, E.; Eckert, J.; Wiedenmann, A.

Magnetische und kristalline Nanostrukturen in $Nd_{60}Fe_{20-x}Co_{10+x}Al_{10}$

DPG Frühjahrstagung

Regensburg 09. Mar - 09. Mar 2004

Invited Talk

Perroud, O.; Garcia-Matres, E.; Eckert, J.; Wiedenmann, A.

Magnetische und kristalline Nanostrukturen in $Nd_{Fe}CoAl$ alloys

DFG SPP1120

Bad Honeff 25. Mar - 25. Mar 2004

Invited Talk

Wiedenmann, A.

Magnetic Nanostructures as probed by SANS POL

International Conference on Polarised Neutrons in Condensed Matter investigations (PNCMI 2004)
Washington 02. Jun - 05. Jun 2004

Invited Talk

Wiedenmann, A.

Nanostructures in Liquids and amorphous materials

Int. Conference on Liquid and Amorphous materials LAM 12
Metz, France 09. Jul - 14. Jul 2004

Invited Talk

Wiedenmann, A.

Nanostructures in liquids and amorphous materials as probed by SANS

Center for nanostructured Materials Technology
Seoul, Korea 08. Dec - 09. Dec 2004

Invited Talk

Wiedenmann, A.

Magnetic Nanostructures as probed by Polarized Small Angle Neutron Scattering

Conference on Neutron Scattering
Mumbai 02. Jan - 05. Jan 2004

Invited Talk

Wiedenmann, A.; Heinemann, A.; Hoell, A.; Kammel, M.

Ordering phenomena in ferrofluids observed by Small Angle Neutron Scattering

10th International Conference on Magnetic Fluids ICMF10
Guarujá, Brasil 02. Aug - 07. Aug 2004

Oral

Wiedenmann, A.; Heinemann, A.; Kammel, M.

Ordering phenomena in ferrofluids observed by Small Angle Neutron Scattering

DFG-Annual Meeting SPP1104

Benediktbeuren 28. Sep - 28. Sep 2004

SF3.Others

Poster

Babcsán, J. K.; Maros, M. B.; Wanderka, N.; Klaffke, D.; Schubert, H.

Effect of Ion-implantation on the Microstructure of Si₃N₄ Based Ceramics

Fractography of Advanced Ceramics, FAC2004

Stará Lesná, Poprad, Slovak Republic 03. Oct - 05. Oct 2004

Invited Talk

Griesche, A.; Macht, M.-P.; Froberg, G.

Diffusion in Liquid Multicomponent Al-Based Alloys

Liquid and Amorphous Metals - LAM 12

Metz 11. Jul - 16. Jul 2004

Poster

Manke, I.; Kardjilov, N.; Haibel, A.; Strobl, M.; Hilger, A.; Treimer, W.; Rack, A.; Banhart, J.

Neutronen- und Synchrotrontomographie für Anwendungen in der Industrie

Werkstoffwoche 2004

München 21. Sep - 23. Sep 2004

Oral

Manke, I.; Kardjilov, N.; Haibel, A.; Strobl, M.; Hilger, A.; Treimer, W.; Rack, A.; Wanderka, N.; Banhart, J.

Neutronen- und Synchrotrontomographie für Anwendungen in der Industrie

Werkstoffwoche 2004

München 21. Sep - 21. Sep 2004

Invited Talk

Vierke, J.

Empfindlichkeitseinstellung und Echohöhenbewertung von Ultraschallprüfköpfen mit schmalen rechteckigen Schwingern

Internes Seminar der Firma intelligenteNDT Systems & Services, Framatome ANP, Areva

Erlangen 16. Nov - 16. Nov 2004

SF4 - Structure and Dynamics

SE4.Dynamics

Oral

Homeyer, H.; Röhrich, J.; Winkelmann, T.

Status of the Ion Source development at the ISL

38th Symposium of Northeastern Accelerator Personnel in

Hamilton 17. Oct - 21. Oct 2004

SF4.Dynamics

Invited Talk

Ban-d'Etat, B.; Haranger, F.; Boduch, P.; Bouffard, S.; Lebius, H.; Maunoury, L.; Pacquet, J.Y.; Rothard, H.; Clerc, C.; Garrido, F.; Thome, L.; Hellhammer, R.; Pesic, Z.D.; Stolterfoht, N.; Bohne, W.; Röhrich, J.

Evolution of sputtering with projectile kinetic energy in the nuclear stopping power regime

15th International Workshop on Inelastic Ion-Surface Collisions

Ise-Shima, Japan 17. Oct - 22. Oct 2004

Invited Talk

Czerski, K.; Schiwietz, G.; Roth, M.; and F. Staufenbiel, F.

Ultrafast breakdown of insulator band-structure induced by swift heavy ions (invited talk).

21th Int. Conf. on Atomic Collisions in Solids (ICACS)

Genova, Italy 04. Jul - 09. Jul 2004

Oral

Elsanousi, A.; Bolse, W.; Schattat, B.; Klaumünzer, S.

Swift heavy ion beam induced solid-state reaction at metal-oxide/silicon interfaces

Arbeitskreis Festkörperphysik Frühjahrstagung

Regensburg 08. Mar - 08. Mar 2004

Oral

Etissa-Debissa, D.; Kalafat, M.; Paulus, H.; Bolse, W.; Klaumünzer, S.

Self-organisation of thin ceramic films under swift heavy ion bombardment

Arbeitskreis Festkörperphysik Frühjahrstagung

Regensburg 08. Mar - 08. Mar 2004

Oral

Facsco, S.; Pesic, Z.D.; Sobocinski, P.; Stolterfoht, N.; Kost, D.; Möller, W.

Electron emission from Ne^{9+} interacting with thin SiO_2 films

24th Werner-Brandt Workshop

Berlin-Adlershof, Germany 11. Jul - 14. Jul 2004

Invited Talk

Grande, P.L.; Schiwietz, G.

Nonperturbative treatment of medium-energy proton scattering under shadowing-blocking conditions in Al(110) (invited talk)

21th Int. Conf. on Atomic Collisions in Solids (ICACS)

Genova, Italy 04. Jul - 09. Jul 2004

Poster

Haranger, F.; Ban-d'Etat, B.; Boduch, P.; Bouffard, S.; Lebius, H.; Maunoury, L.; Rothard, H.; Garrido, F.; Thome, L.; Bohne, W.; Hellhammer, R.; Pesic, Z.D.; Röhrich, J.; Stolterfoht, N.

Angular distributions of UO_2 sputtering induced by slow highly charged ions

8th European Conference on Atomic and Molecular Physics

Rennes, France 06. Jul - 10. Jul 2004

Oral

Hedler, A.; Klaumünzer, S.; Wesch, W.

Swift heavy ion irradiation of amorphous silicon

Int. Conf. Ion beam Modification on Materials

Monterey, California, USA 05. Sep - 05. Sep 2004

Oral

Hedler, A.; Klaumünzer, S.; Wesch, W.

Experimental evidence for a glass transition in amorphous silicon

Forschung mit nuklearen Sonden und Ionen

Stuttgart 29. Sep - 29. Sep 2004

Oral

Hedler, A.; Klaumünzer, S.; wesch, W.

Plastic deformation of amorphous silicon under swift heavy ion irradiation

Arbeitskreis Festkörperphysik Frühjahrstagung

Regensburg 08. Mar - 08. Mar 2004

Oral

Hellhammer, R.; Bundesmann, J.; Fink, D.; Hoffmann, V.; Petrov, A.; Pesic, Z.D.; Skuratov, V.A.; Sulik, B.; Stolterfoht, N.

Guiding of Ne^{7+} ions through Capillaries in PET: projectile energy dependence

Arbeitstagung für energiereiche Stöße

Riezlern, Austria 09. Feb - 12. Feb 2004

Oral

Hellhammer, R.; Pesic, Z.D.; Sobocinski P.; Bundesmann, J.; Fink, D.; Petrov, A.; Sulik, B.; Stolterfoht, N.

Guided transmission of highly charged ions through nanocapillaries in PET: study of the energy dependence

8th Workshop on fast-ion Atom Collisions

Debrecen, Hungary 01. Sep - 03. Sep 2004

Oral

Hellhammer, R.; Pesic, Z.D.; Sobocinski, P.; Bundesmann, J.; Fink, D.; Petrov, A.; Sulik, B.; Stolterfoht, N.

Guided transmission of highly charged ions through nanocapillaries in PET: study of the energy dependence

8th Workshop on Fast Ion-Atom Collisions

Debrecen, Hungary 01. Sep - 03. Sep 2004

Poster

Hossain, S.; Landers, A.L.; Stolterfoht, N.; Tanis, J.A.

High Frequency Oscillations in Electron Emission Interferences from H_2

8th Workshop on Fast Ion-Atom Collisions

Debrecen, Hungary 01. Sep - 03. Sep 2004

Oral

Hossain, S.; Landers, A.L.; Stolterfoht, N.; Tanis, J.A.

High Frequency Oscillations in Electron Emission Interferences from H_2

8th Workshop on Fast Ion-Atom Collisions

Debrecen, Hungary 01. Sep - 03. Sep 2004

Oral

Kalafat, M.; Feyh, A.; Bolse, W.; Etissa-Debissa, D.; Klaumünzer, S.; Schumacher, G.; Bilger, G.

Selbstorganisation dünner NiO-Schichten beim Beschuss mit schnellen, schweren Ionen

Forschung mit nuklearen Sonden und Ionenstrahlen

Stuttgart 29. Sep - 29. Sep 2004

Oral

Klaumünzer, S.

Texturänderung durch Bestrahlung mit hochenergetischen Ionen

Forschung mit nuklearen Sonden und Ionenstrahlen

Stuttgart 29. Sep - 29. Sep 2004

Oral

Roth, M.

Ion-Induced Sputtering

Arbeitstreffen Forschung mit nuklearen Sonden und Ionenstrahlen

Universität Stuttgart, Institut für Strahlenphysik 29. Sep - 01. Oct 2004

Oral

Roth, M.; Czernski, K.; Schiwietz, G.; Staufienbiel, F.

Ion induced sputtering

24th Werner Brandt Workshop

Berlin-Adlershof, Germany 12. Jul - 14. Jul 2004

Invited Talk

Roth, M.; Schiwietz, G.; Czerski, K.; Schattat, B.; Staufenbiel, F.; Walz, B.

Fast Processes in Ion Tracks

SPIG2004 22nd Summer School and International Symposium on the Physics of Ionized Gases

National Park Tara, Serbia and Montenegro 23. Aug - 27. Aug 2004

Oral

Roth, M.; Schiwietz, G.; Czerski, K.; Staufenbiel, F.; Grande, P.L.

Silicon Auger-Spectroscopy

EAS 2004 Arbeitstagung Energiereiche Atomare Stöße

Riezlern, Austria 08. Feb - 13. Feb 2004

Oral

Schattat, B.; Bolse, W.; Paulus, H.; Klaumünzer, S.; Scholz, R.; Zizak, I.

Spuren hochenergetischer Ionen in NiO

Forschung mit nuklearen Sonden und Ionenstrahlen

Stuttgart 29. Sep - 29. Sep 2004

Invited Talk

Schiwietz, G.

Hoch ionisiert und was nun? - Von elektronischen Kurzzeitprozessen bis zu Strahlenschäden durch schnelle Schwerionen (invited main lecture)

68. Physikertagung der Deutschen Physikalischen Gesellschaft (AMOP)

München, Germany 22. Mar - 26. Mar 2004

Invited Talk

Schiwietz, G.

Electron spectroscopy of solids irradiated with relativistic heavy ions (invited talk)

FAIR workshop on the future materials-science activities

GSI, Darmstadt, Germany 08. Nov - 09. Nov 2004

Invited Talk

Schiwietz, G.

Interaction of fast highly charged ions with solids and surfaces (6 hours invited lectures)

Summer school on Frontiers in Atomic and Molecular Physics with Charged Particles

Lanzhou, China 09. Aug - 17. Aug 2004

Invited Talk

Schiwietz, G.; Czerski, K.; Roth, M.; Staufenbiel, F.; and Grande, P.L.

Dynamics of the early ion-track evolution (invited talk)

Conference on the Physics of Highly Charged Ions (HCI 2004)

Vilnius, Lithuania 06. Sep - 11. Sep 2004

Oral

Schiwietz, G.; Staufenbiel, F.; Czerski, K.; Roth, M.; Grande, P. L.

Electronic energy-density effects in ion-tracks of metals (selected oral contribution)

21th Int. Conf. on Atomic Collisions in Solids (ICACS)

Genoa, Italy 04. Jul - 09. Jul 2004

Poster

Sobocinski, P.; Pesic, Z.D.; Hellhammer, R.; Chesnel, J.Y.; Legendre, S.; Sulik, B.; Stolterfoht, N.

Fragmentation of H_2O molecules following interaction with slow He_2^+ ions

8th Workshop on Fast Ion-Atom Collisions

Debrecen, Hungary 01. Sep - 03. Sep 2004

Oral

Sobocinski, P.; Pesic, Z.D.; Hellhammer, R.; Stolterfoht, N.; Chesnel, J.Y.; Legendre, S.; Sulik, B.

Fragmentation of H_2O molecules following interaction with He^{2+} ions

8th Workshop on Fast Ion-Atom Collisions

Debrecen, Hungary 01. Sep - 03. Sep 2004

Oral

Stolterfoht, N.

Interferences in electron emission from two centres of H_2 by fast ion impact: First and second-order effects

18th International Conference on the Application of Accelerators in Research and Industry
Fort Worth, USA 10. Oct - 15. Oct 2004

Invited Talk

Stolterfoht, N.

Quantum interference in electron emission from H_2 molecules by fast ions: First- and second-order effects

8th Workshop on Fast Ion-Atom Collisions
Debrecen 01. Sep - 03. Sep 2004

Invited Talk

Stolterfoht, N.; Hellhammer, R.; Hoffmann, V.; Pesic, Z.D.; Sulik, B.; Petrov, A.; Fink, D.

Transmission of 3-keV Ne^{7+} ions through 100 nm capillaries in a PET polymer: evidence for capillary guiding

International Workshop on Atomic Collisions of Slow Highly-Charged Ions
Tokyo 19. Feb - 21. Feb 2004

Invited Talk

Stolterfoht, N.; Hellhammer, R.; Pesic, Z.D.; Bundesmann, J.; Fink, D.; Sulik, B.

Guiding of slow highly charged ions through nanocapillaries in insulating PET polymers

International Workshop on Structures and Dynamics of free and deposited clusters
Lanzhou, China 06. Sep - 10. Sep 2004

Invited Talk

Stolterfoht, N.; Hellhammer, R.; Pesic, Z.D.; Bundesmann, J.; Fink, D.; Sulik, B.;

Guiding of neon and molecular hydrogen through nanocapillaries in PET

12th International Conference on the physics of highly Charged Ions
Vilnius, Lithuania 06. Sep - 10. Sep 2004

Poster

Stolterfoht, N.; Hellhammer, R.; Pesic, Z.D.; Hoffmann, V.; Fink, D.; Petrov, A.; Sulik, B.

Scattering of 3-keV Ne^{7+} ions through nanocapillaries etched in thin PET polymers: evidence for capillary guiding

21st International Conference on Atomic Collisions in Solids
Genoa, Italy 04. Jul - 09. Jul 2004

Invited Talk

Stolterfoht, N.; Hellhammer, R.; Sobocinski, P.; Pesic, Z.D.; Skuratov, V.; Apel, P.; Sulik, B.

Interaction of slow highly charged ions with inner surface of nanocapillaries

15th International Workshop on Inelastic Ion-Surface (IISC-15)
Ise-Shima, Japan 17. Oct - 22. Oct 2004

Oral

Stolterfoht, N.; Hoffmann, V.; Skogvall, B.; Sulik, B.; Chesnel, J.Y.; Rangama, J.; Fremont, F.; Hennecart, D.; Cassimi, A.; Husson, X.; Hossain, S.; Landers, A.L.; Tanis, J.A.; Galassi, M.E.; Rivarola, R.D.

First- and second- Order interferences in electron emission from H_2 by fast Ion Impact

Arbeitsstagung für energiereiche Stöße
Groningen, The Netherlands 09. Feb - 12. Feb 2004

Oral

Stolterfoht, N.; Pesic, Z.D.; Hellhammer, R.; Chesnel, J.Y.; Sulik, B.

Fragmentation of H_2O molecules following the interaction with slow highly charged ions

Meeting of the Work Group
Groningen, The Netherlands 04. Mar - 06. Mar 2004

Invited Talk

Stolterfoht, N.; Sobocinski, P.; Pesic, Z.D.; Hellhammer, R.; Sulik, B.; Seredyuk, B.; McCullough R.W.; Bodewits, D.; Hoekstra, R.; Morgenstern, R.

State selective electron capture into He^{2+} ions colliding with H_2O molecules

Radiation Damage in Biomolecules

Lyon 24. Jun - 27. Jun 2004

Invited Talk

Stolterfoht, N.; Sobocinski, P.; Pesic, Z.D.; Hellhammer, R.; Sulik, B.; Seredyuk, B.; McCullough R.W.; Bodewits, D.; Hoekstra, R.; Morgenstern, R.

State selective electron capture into He^{2+} ions colliding with H_2O molecules

Annual Meeting of the COST P9 Action

Lyon, France 24. Jun - 27. Jun 2004

Invited Talk

Stolterfoht, N.; Sulik, B.; Gulyas, L.; Skogvall, B.; Chesnel, J.Y.; Fremont, F.; Hennecart, D.; Cassimi, A.; Adoui, L.; Hossain, H.; Tanis J.A.

Young-type interferences in the electron spectra from H_2 induced by fast ions

Satellite Symposium of the IISC-15 Conference

Okayama, Japan 14. Oct - 15. Oct 2004

Oral

Wesch, W.; Kamarou, A.; Wendler, E.; Klaumünzer, S.

593 MeV Au irradiation of InP, GaP, GaAs and AlAs

Int. Conf. Ion Beam Modification on Materials IBMM 2004

Monterey, California, USA 05. Sep - 05. Sep 2004

Oral

Zizak, I.; Darowski, N.; Schumacher, G.; Klaumünzer, S.; Assmann, W. Gerlach, J.

Texturänderung durch Bestrahlung mit hochenergetischen Ionen

Forschung mit nuklearen Sonden und Ionenstrahlen

Stuttgart 29. Sep - 29. Sep 2004

Oral

Zumkley, Th.; Schumacher, G.; Klaumünzer, S.

Thermal-spike-induced crystal growth in nano-crystalline nickel

Arbeitskreis Festkörperphysik Frühjahrstagung 2004

Regensburg 08. Mar - 08. Mar 2004

SF4.Others

Oral

Roth, M.; Schiwietz, G.; Czerski, K.; Staufenbiel, F.; Grande, P.L.

Silicon Auger-Spectroscopy

EAS 2004 Arbeitstagung Energiereiche Atomare Stöße

Riezlern, Austria 08. Feb - 13. Feb 2004

Oral

Staufenbiel, F.; Czerski, K.; Roth, M.; Schiwietz, G.

Elektronische Ionenspureffekte in Be und Al

25. Arbeitstagung Energiereiche Atomare Stöße

Riezlern, Austria 08. Feb - 13. Feb 2004

SF4.Structures

Poster

Agne, Th.; Koteski, V.; Mahnke, H.-E.; Wolf, H. ; Wichert, Th.

Structural Properties of the Donor Indium in Nanocrystalline ZnO

13th Intern. Conf. on Hyperfine Interactions

Bonn 23. Aug - 27. Aug 2004

Poster

Koteski, V.; Haas, H.; Holub-Krappe, E.; Ivanovic, N.; Mahnke, H.-E.

Lattice distortion around impurities in CdTe

HASYLAB Users' Meeting at DESY

Hamburg 30. Jan - 30. Jan 2004

Poster

Koteski, V.; Haas, H.; Holub-Krappe, E.; Mahnke, H.-E.; Novakovic, N.; Fochuk, P.; Panchuk, O.

Lattice distortion around dopants in CdTe

42. Workshop Pointdefect

Dresden 01. Apr - 02. Apr 2004

Invited Talk

Mahnke, H.-E.

Lattice relaxation around impurity atoms in semiconductors

Gordon Research Conference Defects in Semiconductors

New London, NH, USA 18. Jul - 23. Jul 2004

Poster

Mahnke, H.-E.; Haas, H.; Holub-Krappe, E.; Koteski, V.; Novakovic, N.; Fochuk, P.; Panchuk, O.

LATTICE DISTORTION AROUND IMPURITY ATOMS AS DOPANTS IN CdTe

E-MRS Spring 2004, Symposium O

Strasbourg 25. May - 28. May 2004

Poster

Mahnke, H.-E.; Haas, H.; Koteski, V.; Novakovic, N.; Fochuk, P.; Panchuk, O.

Experimental verification of calculated lattice relaxations around impurities in CdTe

13th Intern. Conf. on Hyperfine Interactions

Bonn 23. Aug - 27. Aug 2004

Oral

Mahnke, H.-E.; Haas, H.; Koteski, V.; Novakovic, N.; Fochuk, P.; Panchuk, O.

Lattice distortion around impurity atoms as dopants in CdTe

E-MRS 2004, Spring Meeting

Strasbourg 25. May - 28. May 2004

Oral

Schattat, B.; Bolse, W.; Paulus, H.; Klaumünzer, S.; Scholz, R.

Spuren hochenergetischer Ionen in NiO

Arbeitskreis Festkörperphysik Frühjahrstagung

Regensburg 08. Mar - 08. Mar 2004

SF5 - Theory

SF5.Biosystems

Invited Talk

Falcke, M.

Fluctuations, spatial structure and stability in intracellular Ca²⁺ dynamics

Workshop "Signal Transduction: Calcium Dynamics, Phototransduction and Olfaction",

Columbus, Ohio 26. Jan - 31. Jan 2004

Invited Talk

Falcke, M.

Intracellular Ca²⁺ dynamics

DPG Frühjahrstagung des Arbeitskreises Festkörperphysik

Regensburg 08. Mar - 12. Mar 2004

Oral

Falcke, M.

Fokker-Planck-Equation for intracellular Ca²⁺ dynamics

Dresdener Herbstseminar des Arbeitskreises Nichtlineare Physik

Dresden 07. Nov - 10. Nov 2004

Oral

Falcke, M.

Fluctuations create structures in intracellular Ca²⁺ dynamics

Workshop Complex stochastic systems in Biology and Medicine

München 07. Oct - 08. Oct 2004

Invited Talk

Frey, E.

Statistical mechanics of the cytoskeleton - fiber networks and intracellular transport

Gentner Symposium on

Dead Sea (Israel) 13. Mar - 17. Mar 2004

Oral

Frey, E.

Phase Coexistence in Driven One-Dimensional Transport

APS March Meeting

Montreal (Kanada) 21. Mar - 26. Mar 2004

Oral

Frey, E.

Elasticity of Stiff Biopolymer Networks

APS March Meeting

Montreal (Kanada) 21. Mar - 27. Mar 2004

Invited Talk

Frey, E.

The Cytoskeleton: A Model System for Stiff Polymer Networks

Statistical Physics of Molecular and Cell Biological Systems and Networks

Heidelberg 01. Apr - 03. Apr 2004

Invited Talk

Frey, E.

The Cytoskeleton: A Model System for Stiff Polymer Networks

StatPhys V

Bangalore (Indien) 03. Jul - 09. Jul 2004

Poster

Hallatschek, O.; Frey, E.; Kroy, K.

Euler Buckling Dynamics

Jülich Soft Matter Days

Kerkrade, Netherlands 18. Nov - 18. Nov 2004

Poster

Heussinger, C.; Frey, E.

Thermal and Mechanical Response of Stiff Polymer Networks

Soft Matter Days

Kerkrade, Holland 17. Nov - 19. Nov 2004

Poster

Teeffelen van, S.; Frey, E.; Kroy, K.

Effective pair potential approach to entangled stiff polymers

DPG Fruehjahrstagung 2004

Regensburg 08. Mar - 12. Mar 2004

Poster

Thul, R., Falcke, M.

Stability of strongly localized reactions

Oscillations and waves in cells and Cell networks

Cargèse, Korsika 10. May - 15. May 2004

SF5.Others

Invited Talk

Gross, D.H..E.

Equilibrium statistics applied to "Small" systems, phase transitions in nuclei in particular.

Workshop Consensus Initiative I (WCI)

Catania, Italien 19. Jan - 24. Jan 2004

SF5.Soft Matter

Invited Talk

Frey, E.

The Cytoskeleton: A Model System for Stiff Polymers

DPG Frühjahrstagung

Regensburg 08. Mar - 12. Mar 2004

Poster

Kroy, K.

A cluster mode-coupling approach to weak gelation in attractive colloids

Structural Arrest Transitions in Colloidal Systems

With Short-Range Attractions

Messina 17. Dec - 20. Dec 2004

Invited Talk

Kroy, K.; Hallatschek, O.; Frey, E.

Nonequilibrium dynamics of stiff polymers

DPG AKF-Frühjahrstagung 2004

Regensburg 08. Mar - 12. Mar 2004

SF6 - Trace Elements

SF6.Analysis

Poster

Alber, D.; Bukalis, G.; Kyriakopoulos, A.; Stanik, B.; Zimmer, A.

Methoden der Spurenelementanalytik biologischer Materialien Neutronenaktivierungsanalyse (NAA)

Gemeinsame Herbsttagung HMI - GSF

Berlin 25. Nov - 26. Nov 2004

Invited Talk

Behne, D.; Alber, D.; Kühbacher, M.; Wolf, C.; Plotnikov, A.; Kyriakopoulos, A.

Elementanalytische Methoden in Metalloproteomics

Gemeinsame Herbsttagung HMI - GSF

Berlin 25. Nov - 26. Nov 2004

Invited Talk

Behne, D.; Alber, D.; Kyriakopoulos, A.

Applications of Nuclear Analytical Methods in Metalloproteomics

11th International Conference

Guildford, UK 20. Jun - 25. Jun 2004

Invited Talk

Knispel, T.; Kühbacher, M.; Denkhaus, E.; Prange, A.; Kyriakopoulos, A.; Behne, D.

Nickel Spezies Analyse von humanem Darmtumorgewebe und HT29/B6 Tumorzellen mittels Größenaufschlußchromatographie, SDS-PAGE und Massenspektrometrie

Gemeinsame Herbsttagung HMI-GSF

Berlin 25. Nov - 26. Nov 2004

Poster

Kühbacher, M.; Bertelsmann, H.; Wolf, C.; Weseloh, G.; Haibel, A.; Rack, A.; Kyriakopoulos, A.; Behne, D.

Untersuchungen an metall- und metalloidgehaltigen Proteinen im männlichen Reproduktionssystem

Gemeinsame Herbsttagung HMI-GSF

Berlin 25. Nov - 26. Nov 2004

Poster

Kühbacher, M.; Weseloh, G.; Falkenberg, G.; Kyriakopoulos, A.; Behne, D.

Untersuchungen an metall- und metalloidgehaltigen Proteinen im zentralen Nervensystem durch Kombination von biochemischen und elementanalytischen Methoden

Gemeinsame Herbsttagung HMI-GSF

Berlin 25. Nov - 26. Nov 2004

Oral

Kühbacher, M.; Weseloh, G.; Falkenberg, G.; Kyriakopoulos, A.; Behne, D.

Untersuchungen an metall- und metalloidgehaltigen Proteinen im zentralen Nervensystem

Gemeinsame Herbsttagung HMI-GSF

Berlin 25. Nov - 26. Nov 2004

Poster

Kühbacher, M.; Weseloh, G.; Bertelsmann, H.; Radtke, M.; Riesemeier, H.; Haibel, A.; Rack, A.; Kyriakopoulos, A.; Behne, D.

Molekulare Spurenelementforschung mit Synchrotronstrahlung an der BAMline.

3. BAMline-Seminar

Berlin 29. Nov - 30. Nov 2004

Oral

Kyriakopoulos, A.; Alber, Özaslan, M.; Behne, D.

Identifizierung von Metalloproteinen (Cu-Proteine)

Kooperationsprojekt mit Fa. WITA/Teltow

Teltow 08. Oct - 08. Oct 2004

Oral

Plotnikov, A.

Anwendung der scannenden Laserablation-ICP-Massenspektrometrie für die Identifizierung von Se-haltigen Proteinen nach 1D/2D-gel-elektrophoretischer Trennung

14. Jahrescolloquium der Interessengemeinschaft Atomspektroskopie (IGAS)

Berlin 17. Nov - 17. Nov 2004

Oral

Plotnikov, A.

Novel Applications of Inductively Coupled Plasma Mass Spectrometry - a Powerful Technique for Elemental Analysis

Workshop Moscow Chemist (Seminar der Moskauer Universität)

Berlin 26. Apr - 26. Apr 2004

Poster

Weseloh, G.; Kühbacher, M.; Falkenberg, G.; Kyriakopoulos, A.; Behne, D.

INVESTIGATIONS OF TSE- INFECTED SYRIAN HAMSTER BRAINS BY MEANS OF THE SRXRF-MICROPROBE

Gemeinsame Herbsttagung HMI-GSF

Berlin 25. Nov - 26. Nov 2004

Poster

Weseloh, G.; Kühbacher, M.; Falkenberg, G.; Kyriakopoulos, A.; Behne, D.

Investigation of TSE-infected syrian hamster brains by means of SRXRF-Microprobe

EXRS 2004

Alghero 06. Jun - 11. Jun 2004

SF6.Clinical app.

Poster

Plotnikov, A.; Wolf, C.; Kyriakopoulos, A.; Behne, D.

Proteomics mittels SEC-ICP-MS: Verbesserung chromatographischer Auflösung durch die mathematische Signalverarbeitung

Gemeinsame Herbsttagung HMI-GSF

Berlin 25. Nov - 26. Nov 2004

Poster

Wolf, C.; Plotnikov, A.; Kyriakopoulos, A.

Methoden der Spurenelementanalytik biologischer Materialien Massenspektrometrie mit induktiv gekoppeltem Plasma (ICP-MS)

Gemeinsame Herbsttagung HMI-GSF

Berlin 25. Nov - 26. Nov 2004

SF6.NAA

Poster

Alber, D.; Schwarm, A.; Ortmann, S.; Clauss, M.; Behne, D.

Differential Particle Retention in the Forestomach of Hippopotamidae Investigated by Instrumental Neutron Activation Analysis of Elemental Particle Markers

11th International Conference

Guildford, UK 20. Jun - 25. Jun 2004

Oral

Berger, A.; Alber, D.; Bukalis, G.

Determination of Cobalt in Nickel in the Sub-PPM Level with cold Neutrons

11th International Conference

Guildford, UK 20. Jun - 25. Jun 2004

Oral

Lin, X.; Henkelmann, R.; Alber, D.

Is there something wrong in Barium determination by K0-INAA

11th International Conference

Guildford, UK 20. Jun - 25. Jun 2004

SF6.Proteins

Invited Talk

Bertelsmann, H.; Kühbacher, M.; Weseloh, G.; Alber, D.; Bollwein, H.; Radtke, M.; Kyriakopoulos, A.; Behne, D.

Characterisation of a new form of snGPx in mammalian sperm nuclei

Gemeinsame Herbsttagung HMI-GSF

Berlin 25. Nov - 26. Nov 2004

Poster

Bukalis, K.; Kyriakopoulos, A.; Alber, D.; Behne, D.

Subcellular distribution of selenium and selenium-containing proteins in the rat lung

Gemeinsame Herbsttagung HMI-GSF

Berlin 25. Nov - 26. Nov 2004

Poster

Bukalis, K.; Kyriakopoulos, A.; Alber, D.; Behne, D.

Studies on Trace Elements and Trace-Element-Containing Proteins in the Lung of the Rat

29th FEBS

Warschau 26. Jun - 01. Jul 2004

Poster

Bukalis, K.; Kyriakopoulos, A.; Alber, D.; Behne, D.

Trace elements and trace-element-containing proteins in the respiratory tract of the rat

Macro and Trace Elements

Jena 24. Sep - 25. Sep 2004

Poster

Dalla Puppa, L.; Kyriakopoulos, A.; Bräuer, A.; Savaskan, NE.; Behne, D.

WHICH SELENOPROTEINS PROTECT MICROGLIAL CELLS FROM OXIDATIVE STRESS?

Gemeinsame Herbsttagung HMI-GSF

Berlin 25. Nov - 26. Nov 2004

Poster

Dalla Puppa, L.; Savaskan, NE.; Nitsch, R.; Kyriakopoulos, A.; Behne, D.

Protective effect of selenium and selenoproteins on microglial and neuronal cells

FENS Forum 2004

Lissabon 10. Jul - 14. Jul 2004

Poster

Hoppe, B.; Kyriakopoulos, A.; Behne, D.

Involvement of selenium-containing proteins in the blood-brainbarrier

Endo-Neuro-Psycho

Doorwerth 01. Jun - 04. Jun 2004

Poster

Hoppe, B.; Kyriakopoulos, A.; Behne, D.

Selenium-containing proteins in the blood-brain barrier

7th symposium

Potsdam 17. Sep - 17. Sep 2004

Oral

Kyriakopoulos, A.

Biochemische Methoden zur Trennung von spezifischen Metalloproteinen

FU-Berlin

Berlin 28. May - 28. May 2004

Oral

Kyriakopoulos, A., Alber, D., Behne, D.

Plasma-Seleoprotein P

Kooperationsprojekt mit Fa. Biogenes/Berlin

Berlin 27. Sep - 27. Sep 2004

Poster

Kyriakopoulos, A.; Graebert, A.; Alber, D.; Behne, D.

Localization of membrane-bound selenoproteins in the cell compartments of rat tissues

Gemeinsame Herbsttagung HMI-GSF

Berlin 25. Nov - 26. Nov 2004

Poster

Kyriakopoulos, A.; Graebert, A.; Behne, D.

Selenoprotein in the signal transduction: Role of Se-Enzymes in the redox regulation of metabolic processes

Symposium on Visualising Cytoskeletal Architecture and Dynamics by Light and Electron Microscopy

Dresden 25. Oct - 25. Oct 2004

Poster

Kyriakopoulos, A.; Graebert, A.; Bertelsmann, H.; Alber, D.; Behne, D.

Antioxidative defence system and selenoproteins

Macro and Trace Elements

Jena 24. Sep - 26. Sep 2004

Oral

Kyriakopoulos, A.; Graebert, A.; Kiesel, C.; Behne, D.

Detection of small selenocystein-containing peptides in rat tissues by electrophoretic methods

14th International Symposium on Capillary Electroseparation Techniques

Rom 12. Sep - 16. Sep 2004

Poster

Kyriakopoulos, A.; Hoppe, B.; Bukalis, K.; Graebert, A.; Behne, D.

Prevention and protection against oxidative stress of eukaryotic cell membranes by selenium compounds

Signal Transduction 2004

Luxemburg 25. Jan - 25. Jan 2004

Poster

Kyriakopoulos, A.; Müller, N.; Behne, D.

Expression of a 40kDa selenoprotein in the diaphragm and skeletal muscle of the rat

2nd International Symposium on Trace Elements and Minerals in Medicine and Biology

Neuherberg 13. May - 15. May 2004

Oral

Savaskan, NE.; Dalla Puppa, L.; Eyüpoglu, I.; Schweizer, U.; Kyriakopoulos, A.; Behne, D.; Nitsch, R.; Bräuer, A.

SELENIUM TARGETS SPECIFIC SELENOPROTEIN EXPRESSION IN MICROGLIAL CELLS:

Selenoproteins as novel Players in microglial activation and proliferation

Gemeinsame Herbsttagung HMI - GSF

Berlin 25. Nov - 26. Nov 2004

SF7 - Measurement instrumentation
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SF7.Detector

Oral

Alimov, S.S.; Buzzetti, S.; Dabrowski, W.; Fiutowski, T.; Gebauer, B.; Grybos, P.; Klein, M.; Petrillo, C.; Sacchetti, F.; Schmidt, Ch.J.; Schulz, Ch.; Soltveit, K.H.; Trunk, U.; Wilpert, Th.

Development of very-high rate and resolution thermal neutron and X-ray detectors in DETNI

IEEE Conf., Synchrotron Radiation Workshop

Rome, Italy 22. Oct - 22. Oct 2004

Poster

Buzzetti, S.; Dabrowski, W.; Fiutowski, T.; Gebauer, B.; Grybos, P.; Klein, M.; Petrillo, C.; Sacchetti, F.; Schmidt, Ch.J.; Soltveit, K.H.; Trunk, U.

Development of a novel front-end ASIC for very high rate neutron area detectors in DETNI

IEEE Conf., Synchrotron Radiation Workshop

Rome, Italy 22. Oct - 22. Oct 2004

Invited Talk

Gebauer, B.

Development of hybrid low-pressure MSGC detectors

Joint Meeting of the Int. Conf. on Neutron Optics (NOP 2004) and the Third Int. Workshop on Position-Sensitive Neutron Detectors (PSND 2004)

Tokyo, Japan 12. Jan - 16. Jan 2004

Invited Talk

Gebauer, B.

Towards detectors for next generation spallation neutron sources

10th Vienna Conf. on Instrumentation (VCI 2004)

Vienna, Austria 16. Feb - 21. Feb 2004

Oral

Gebauer, B.

DETNI: Planning, tasks, risks,?

1st Joint DETNI-MILAND Workshop

Abingdon, UK 27. Feb - 27. Feb 2004

Oral

Gebauer, B.

DETNI: Gd/CsI MSGC

1st Joint DETNI-MILAND Workshop

Abingdon, UK 27. Feb - 27. Feb 2004

Invited Talk

Gebauer, B.

High-resolution and fast hybrid 2D-MSGC detector development

9th TECHNI Meeting

Abingdon, UK 26. Feb - 26. Feb 2004

Oral

Gebauer, B.

Introduction and detector readout conditions

2nd DETNI ASIC Meeting

Krakow, Poland 03. Apr - 03. Apr 2004

Oral

Gebauer, B.

Front-end architecture II (Some remarks on BNL front-end)

2nd DETNI ASIC Meeting

Krakow, Poland 03. Apr - 03. Apr 2004

Oral

Gebauer, B.

Towards high-rate high-resolution time-of-flight area detectors for pulsed neutron sources

Condensed Matter Physics with Neutrons at the IBR-2 Pulsed Reactor, Germany- JINR User Meeting

Dubna, Russia 12. Jun - 16. Jun 2004

Oral

Gebauer, B.

DETNI project updates and issues

1st DETNI ASIC Submission Readiness Review Meeting

Heidelberg, Germany 04. Sep - 04. Sep 2004

Oral

Gebauer, B.

Comparison of specifications for the Si-MSD and MSGC cases

5th DETNI ASIC meeting

Berlin, Germany 27. Nov - 27. Nov 2004

Oral

Gebauer, B.

Hybrid micro-strip gas chamber detector R&D in DETNI

2nd DETNI-MILAND Workshop

Rome, Italy 23. Oct - 23. Oct 2004

Oral

Gebauer, B.

Overview on DETNI objectives and applications

2nd DETNI-MILAND Workshop

Rome, Italy 23. Oct - 23. Oct 2004

Invited Talk

Gebauer, B.

The DETNI detector development program

Workshop on Electron, Neutron and Photon Detection Techniques for the Next Generation of Infrastructures

Rome, Italy 21. Oct - 21. Oct 2004

Invited Talk

Gebauer, B.

Towards high-rate and high-resolution time-of-flight area detectors for spallation neutron sources like ESS

European Materials Research Society Fall Meeting

Warsaw, Poland 06. Sep - 10. Sep 2004

Oral

Gebauer, B.

On insulating layers for the converters between two silicon micro-strip detectors

3rd DETNI ASIC Meeting

Krakow, Poland 19. Jun - 19. Jun 2004

Oral

Gebauer, B.

Readout architecture II (Further remarks on BNL readout solutions)

2nd DETNI ASIC Meeting

Krakow, Poland 03. Apr - 03. Apr 2004

Poster

Levchanovsky, F.V.; Gebauer, B.; Litvinenko, E.I.; Nikiforov, A.S.; Prikhodko, V.I.; Schulz, Ch.; Wilpert, Th.

A PCI DAQ board for MWPC detectors with high-rate 2D delay line position readout

Joint Meeting of the Int. Conf. on Neutron Optics (NOP 2004) and the Third Int. Workshop on Position-Sensitive Neutron Detectors (PSND 2004)

Tokyo, Japan 12. Jan - 16. Jan 2004

Poster

Levchanovsky, F.V.; Gebauer, B.; Litvinenko, E.I.; Nikiforov, A.S.; Prikhodko, V.I.; Schulz, Ch.; Wilpert, Th.

A DAQ board with PCI interface for MWPC detectors with delay line readout

Condensed Matter Physics with Neutrons at the IBR-2 Pulsed Reactor, Germany- JINR User Meeting Dubna, Russia 12. Jun - 16. Jun 2004

Poster

Levchanovsky, F.V.; Gebauer, B.; Litvinenko, E.I.; Nikiforov, A.S.; Prikhodko, V.I.; Schulz, Ch.; Wilpert, Th.

DAQ boards for high-rate delay line detectors with 2D position and time resolution

IEEE Conf., Synchrotron Radiation Workshop

Rome, Italy 22. Oct - 22. Oct 2004

SF7.ERDA

Invited Talk

*Von Oertzen, W***Ternary fission and Cluster structure of ^{56}Ni**

Workshop on Bose Einstein Condensates in Nuclei

Rostock 20. Aug - 22. Aug 2004

Oral

*Von Oertzen, W.; Gebauer, B.; Schulz, Chr.; Thummerer, S.; Bohlen, H.G.; Kokalova, Tz.; Beck, C.; Rousseau, M.; Papka, P.; Efimov, g.; Kamanin, D.; de Angelis, G.***Coplanar Ternary decay of hyper-deformed nuclei of mass $A=56$**

EXON-2004 International Symposium on Exotic Nuclei

Peterhof, Russia 05. Jul - 12. Jul 2004

SF7.Others

Poster

*Kokalova, Tz.; von Oertzen, W.; Torilov, S.; Thummerer, S.; Bohlen, H. G.; Milin, M.; Tumino, A.; de Angelis, G.; Axiotis, M.; Farnea, E.; Marginean, N.; Martinez, T.; Napoli, D. R.; Lenzi, S. M.; Ur, C.; Rousseau, M.; Papka, P.***CLUSTER EMISSION (8Be , $^{12}\text{C}^*(0+2)$) IN COMPOUND NUCLEUS REACTIONS**

DPG Frühjahrstagung

Köln 08. Mar - 12. Mar 2004

Poster

*Kokalova, Tz.; von Oertzen, W.; Torilov, S.; Thummerer, S.; Bohlen, H. G.; Milin, M.; de Angelis G.; Tumino, A.; Farnea, E.; Axiotis, M.; Marginean, N.; Martinez, T.; Napoli, D. R.; Lenzi, S. M.; Ur, C.; Papka, P.; Rousseau, M.***Observation of cluster emission in compound nucleus reactions**

INPC 2004

Göteborg 28. Jun - 02. Jul 2004

Poster

*Wheldon, C.***Properties of pseudo-Nilsson bands in ^{185}Os**

DPG Spring Meeting

Köln 08. Mar - 12. Mar 2004

SF7.Q3D

Oral

*Avriganu, M.; von Oertzen, W.; Fischer, U.; Avriganu, V.***Optical model potentials for** α – *particle scattering around the coulomb barrier on medium – mass nuclei*

Nuclear Data Conference ND2004

New Mexico 26. Sep - 01. Oct 2004

Oral

*Avriganu, M.; von Oertzen, W.; Fischer, U.; Avriganu, V.***Analysis of Deuterium scattering on ^6Li , ^7Li up to 50MeV based on realistic effective NN Interaction**

Nuclear Data Conference ND 2004

New Mexico 26. Sep - 01. Oct 2004

Poster

Bohlen, H.G.; Kalpakchieva, R.; Massey, T.N.; von Oertzen, W.; Ogloblin, A.A.; de Angelis, G.; Schulz, Ch.; Thummerer, S.; Kokalova, Tz.; Wheldon, C.

Structure studies of the carbon isotopes $^{17,16,15}\text{C}$

International Nuclear Physics Conference INPC 2004
Göteborg, Schweden 27. Jun - 02. Jul 2004

Invited Talk

Kokalova, Tz

Alpha-cluster and ^8Be emission from compound nuclei

Workshop on Bose Einstein Condensates in Nuclei
Rostock 20. Aug - 22. Aug 2004

Oral

Oertzen von, W.

Coplanar ternary decay of hyper-deformed nuclei of mass $A=56$

International Symposium on Exotic Nuclei, EXON 2004
Peterhof, Russia 05. Jul - 12. Jul 2004

Oral

Von Oertzen, W.

Ternary fission and Cluster structure of ^{56}Ni

Workshop on Bose Einstein Condensates in Nuclei
Rostock 20. Aug - 22. Aug 2004

Oral

Von Oertzen, W.

Nuclear Clusters and Covalently bound Nuclear Molecules

Institut Physique Nucléaire
Paris 15. Mar - 15. Mar 2004

Oral

Von Oertzen, W.

Ternary fission and cluster structure of ^{56}Ni

INPC04
Göteborg 28. Jun - 02. Jul 2004

Poster

von Oertzen, W

HK 10.19: Binary and non-binary decay channels of compound nuclei formed in $^{24}\text{Mg} + ^{32}\text{S}$ and $^{24}\text{Mg} + ^{36}\text{Ar}$ reactions HK 10.21: Two neutron transfer reactions with ^{10}Be targets

DPG Frühjahrstagung
Köln 08. Feb - 12. Feb 2004

SE - Solar Energy Research

SE1 - Silicon photovoltaics

SE1.Cells

Poster

Böhme, C.; Friedrich, F.; Ehara, T.; Lips, K.

Recombination Mechanisms at Silicon Dangling Bonds

Intern. Conf. on Polycrystalline Semiconductors POLYSE 2004

Potsdam, Germany 05. Sep - 10. Sep 2004

Oral

Böhme, C.; Lips, K.

The Electrical Observation of Spin Rabi Oscillation - a Step towards an Electrical Readout of Silicon Based Quantum Computers

Workshop of the EU Roses Project

Berlin, Germany 02. Sep - 02. Sep 2004

Oral

Böhme, C.; Lips, K.

The Electrical Observation of Spin Rabi Oscillation - a Step towards an Electrical Readout of Silicon Based Quantum Computers

15th Meeting of the Intern. Society of Magnetic Resonance - ISMAR 2004 Conference

Jacksonville, USA 24. Oct - 28. Oct 2004

Poster

Brammer, T.; Stiebig, H.; Lips, K.

Simulation of the Spin-Dependent Dark Current in Microcrystalline Silicon Solar Cells

19th Europ. Photovoltaic Solar Energy Conf. and Exhibition

Paris, France 07. Jun - 11. Jun 2004

Poster

Brehme, S.; Knipper, U.; Petter, K.; Sieber, I.; Rau, B.; Lips, K.; Fuhs, W.

Electronic Properties of Low-Temperature Epitaxial Si Grown by ECR-CVD

19th Europ. Photovoltaic Solar Energy Conference and Exhibition

Paris, France 07. Jun - 11. Jun 2004

Oral

Brehme, S.; Knipper, U.; Rau, B.; Fuhs, W.

Majority-Carrier Properties of Low-Temperature Epitaxial Si

DPG- Frühjahrstagung

Regensburg, Germany 08. Mar - 12. Mar 2004

Poster

Clemens, P.; Rau, B.; Sieber, I.; Gall, S.; Fuhs, W.

Influence of the Substrate Preparation on the Low-Temperature Epitaxy of Si by Electron-Cyclotron Resonance Chemical Vapor Deposition

DPG- Frühjahrstagung

Regensburg, Germany 08. Mar - 12. Mar 2004

Poster

Ehara, T.; Boehme, C.; Lips, K.

Proof of Excitonic Recombination in Hydrogenated Amorphous Silicon by Pulsed ODMR

ESR Symposium der Rocky Mountain Conference on Analytical Chemistry

Denver, Colorado, USA 02. Aug - 06. Aug 2004

Invited Talk

Fuhs, W.

Crystalline Silicon Thin-Film Solar Cells

NATO ASI Nanostructured and Advanced materials for Application in Sensors, Optoelectronic and Photovoltaic Technology

Sozopol, Bulgaria 06. Sep - 17. Sep 2004

Invited Talk

Fuhs, W.:

Transparent Conductive Zinc Oxide (ZnO) Layers in Photovoltaic Applications

NATO Advanced Research Workshop Zinc Oxide as a Material for Micro- and Optoelectronic Applications

St. Petersburg, Russia 23. Jun - 25. Jun 2004

Oral

Gall, S.; Schneider, J.; Klein, J.; Muske, M.; Rau, B.; Conrad, E.; Sieber, I.; Fuhs, W.; Ornaghi, C.; Van Gestel, D.; Gordon, I.; Van Nieuwenhuysen, K.; Beaucarne, G.; Poortmans, J.; Stöger-Pollach, M.; Bernardi, J.; Schattschneider, P.; Wang, Y., Van Der Biest, O.

Crystalline silicon thin-film solar cells on foreign substrates: The European project METEOR

19th European Photovoltaic Solar Energy Conference

Paris, France 07. Jun - 11. Jun 2004

Oral

Gall, S.; Schneider, J.; Klein, J.; Muske, M.; Rau, B.; Sieber, I.; Fuhs, W.

Large-grained polycrystalline silicon films on glass

3rd aSi-Net Workshop & 10th Euroregional Workshop on "Thin Silicon Devices"

Bratislava, Slovak Republic 25. Feb - 27. Feb 2004

Oral

Hübener, K.; Gall, S.; Muske, M.; Schneider, J.; Fuhs, W.

Polykristalline Siliziumschichten auf metallbeschichteten Glassubstraten

DPG- Frühjahrstagung

Regensburg, Germany 08. Mar - 12. Mar 2004

Oral

Hübner, S.; Conrad, E.; Muske, M.; Gall, S.; Fuhs, W.

Beschleunigte Festphasenkristallisation von amorphem Silizium auf polykristallinen Saatschichten

DPG-Frühjahrstagung

Regensburg, Germany 08. Mar - 12. Mar 2004

Poster

Klein, J.; Schneider, J.; Muske, M.; Gall, S.; Fuhs, W.

Aluminium-Induced Crystallisation of Amorphous Silicon: The Influence of the Aluminium Layer on the Process

19th Europ. Photovoltaic Solar Energy Conference and Exhibition

Paris, France 07. Jun - 11. Jun 2004

Invited Talk

Lips, K.; Boehme, C.

Defect Characterisation With Coherent Spin Motion Experiments

16th Workshop on Quantum Solar Energy Conversion QUANTSOL 2004

Bad Gastein, Austria 15. Mar - 19. Mar 2004

Invited Talk

Lips, K.; Boehme, C.; Ehara, T.

The Impact of the Electron Spin on Charge Carrier Recombination - The Example of Amorphous Silicon

13th International School on Condensed Matter Physics (ISCMP)

Varna, Bulgaria 30. Aug - 03. Sep 2004

Poster

Maydell, K. v.; Brehme, S.; Nickel, N. H.; Fuhs, W.

Electronic Transport in P-doped Laser Crystallized Polycrystalline Silicon

Intern. Conf. on Polycrystalline Semiconductors POLYSE 2004

Potsdam, Germany 05. Sep - 10. Sep 2004

Invited Talk

Nickel, N. H.

Influence of the Hydrogen Concentration on H-Bonding in Zinc Oxide

NATO Advanced Research Workshop Zinc Oxide as a Material for Micro- and Optoelectronic Applications

St. Petersburg, Russia 23. Jun - 25. Jun 2004

Oral

Nickel, N. H.; Brendel, K.

Hydrogen Bonding in ZnO

MRS Spring Meeting

San Francisco, USA 12. Apr - 16. Apr 2004

Poster

Nickel, N. H.; Brendel, K.

Passivation of Grain-Boundary Defects in Polycrystalline Silicon

19th Europ. Photovoltaic Solar Energy Conference and Exhibition

Paris, France 07. Jun - 11. Jun 2004

Poster

Peters, S.; Leihkauf, R.; Wagemann, H. G.; Boit, C.

I(V)-Characteristic of Si Thin-Film Solar Cells within a Monolithically Serie-Interconnected SOI Module: Measurement and Simulation

19th Europ. Photovoltaic Solar Energy Conf. and Exhibition

Paris, France 07. Jun - 11. Jun 2004

Oral

Petter, K.; Rau, B.; Lips, K.; Fuhs, W.

Photolumineszenz von epitaktischem Dünnschichtsilizium in unterschiedlichen Wachstumstemperatur-Regimen

DPG- Frühjahrstagung

Regensburg, Germany 08. Mar - 12. Mar 2004

Poster

Petter, K.; Sieber, I.; Rau, B.; Brehme, S.; Lips, K.; Fuhs, W.

Structural Defects and Photoluminescence of Epitaxial Si Films Grown by Low Temperature ECRCVD

Intern. Conf. on Polycrystalline Semiconductors POLYSE 2004

Potsdam, Germany 05. Sep - 10. Sep 2004

Oral

Poortmans, J.; Reber, S.; Gall, S.; Zahedi, C.; Alonso, J.

European cluster on high- and intermediate temperature thin-film crystalline Si solar cells R&D: Overview of running projects and underlying roadmap

19th European Photovoltaic Solar Energy Conference

Paris, France 07. Jun - 11. Jun 2004

Poster

Rau, B.; Schneider, J.; Muske, M.; Sieber, I.; Gall, S.; Stöger-Pollach, M.; Schattschneider, P.; Fuhs, W.

Epitaxial Si Growth on Polycrystalline Si Seed Layers at Low Temperature

19th Europ. Photovoltaic Solar Energy Conference and Exhibition

Paris, France 07. Jun - 11. Jun 2004

Poster

Saleh, R.; Nickel, N. H.

Silicon-Hydrogen Bonds in Boron and Phosphorous Doped Polycrystalline Silicon Thin Films

Intern. Conf. on Polycrystalline Semiconductors POLYSE 2004

Potsdam, Germany 05. Sep - 10. Sep 2004

Poster

Saleh, R.; Nickel, N. H.

Silicon-Hydrogen Bonds in Boron and Phosphorous Doped Polycrystalline Silicon Thin Films

MRS Spring Meeting

San Francisco, USA 12. Apr - 16. Apr 2004

Oral

Saleh, R.; Nickel, N. H.

Raman Spectroscopy of Doped and Compensated Laser Crystallized Polycrystalline Silicon Thin Films

2nd Intern. Conf. on Technological Advances of Thin Films and Surface Coatings and 1st Intern. Conf. on Nanotechnology

Singapore 13. Jul - 17. Jul 2004

Poster

Saleh, R.; Nickel, N. H.

Structural and Electrical Properties of Doped Microcrystalline and Polycrystalline Silicon

14th Intern. Photovoltaic Science and Engineering Conference (PVSEC-14)

Bangkok, Thailand 26. Jan - 30. Jan 2004

Poster

Saleh, R.; Nickel, N. H.; Brendel, K.

Hydrogen Bonding in Compensated Polycrystalline Silicon Thin Films

Intern. Conf. on Polycrystalline Semiconductors POLYSE 2004

Potsdam, Germany 05. Sep - 10. Sep 2004

Poster

Saleh, R.; Nickel, N. H.; Brendel, K.

Hydrogen Density-of-States Distribution in Compensated Polycrystalline Silicon Thin Films

MRS Spring Meeting

San Francisco, USA 12. Apr - 16. Apr 2004

Poster

Schneider, J.; Heimburger, R.; Klein, J.; Muske, M.; Gall, S.; Fuhs, W.

Aluminum-Induced Crystallization of Amorphous Silicon: Influence of Temperature Profiles

Intern. Conf. Polycrystalline Semiconductors POLYSE 2004

Potsdam, Germany 05. Sep - 10. Sep 2004

Poster

Schneider, J.; Klein, J.; Muske, M.; Gall, S.; Fuhs, W.

Aluminum-Induced Crystallization of Amorphous Silicon: Al/a-Si-Interface Influence on Seed Layer Formation

DPG- Frühjahrstagung

Regensburg, Germany 08. Mar - 12. Mar 2004

Poster

Schneider, J.; Klein, J.; Muske, M.; Hübener, K.; Gall, S.; Fuhs, W.

Aluminium-Induced Crystallisation of Amorphous Silicon: Interface Influence on Grain Growth

19th Europ. Photovoltaic Solar Energy Conf. and Exhibition

Paris, France 07. Jun - 11. Jun 2004

Oral

Sieber, I.; Urban, I.; Fuhs, W.

Orientierungsbestimmung an dünnen Siliziumschichten für die Photovoltaik

EBSD-Symposium

Berlin 02. Jul - 02. Jul 2004

Poster

Weizman, M.; Nickel, N. H.; Sieber, I.; Bohne, W.; Röhrich, J.; Strub, E.; Yan, B.

Phase segregation in laser crystallized polycrystalline SiGe thin films

Intern. Conference on Polycrystalline Semiconductors POLYSE 2004

Potsdam, Germany 05. Sep - 10. Sep 2004

SE1.Hetero

Poster

Angermann, H.

Electronic Interface Properties of Silicon Substrates for Solar Cells

Tag der Chemie

Universität Potsdam, Golm 07. Jul - 07. Jul 2004

Poster

Angermann, H.

Wet Chemical Preparation of Silicon Substrates for Photovoltaic Application

9th Augustusburg Conf. of Advanced Science

Augustusburg, Germany 23. Sep - 25. Sep 2004

Poster

Angermann, H.

Interface state densities and surface charge on wet-chemically prepared Si(100) surfaces

7th Intern. Symp. on Ultra Clean Processing of Silicon Surfaces

Brussel, Belgium 19. Sep - 22. Sep 2004

Poster

Goudovskikh, A.; Kleider, J.-P.; Stangl, R.; Schmidt, M.; Fuhs, W.

Interface Properties of a-Si:H/c-Si Heterojunctions Investigated by Admittance Spectroscopy

19th Europ. Photovoltaic Solar Energy Conf. and Exhibition

Paris, France 07. Jun - 11. Jun 2004

Oral

Korte, L.; Kliefoth, K.; Laades, A.; Schmidt, M.

Ultrathin Hydrogenated Amorphous Silicon Layers on Crystalline Silicon a-Si:H Gap State Density Distribution and a-Si/c-Si Interface Properties

DPG- Frühjahrstagung

Regensburg, Germany 08. Mar - 12. Mar 2004

Oral

Korte, L.; Schöpke, A.; Schmidt, M.

Determination of the Gap State Density Distribution in Silicon Based Heterostructures by UV-Photoelectron Spectroscopy

13. Arbeitstagung Angewandte Oberflächenanalytik AOFA 13

Dresden, Germany 14. Sep - 17. Sep 2004

Poster

Laades, A.; Kliefoth, K.; Korte, L.; Brendel, K.; Stangl, R.; Schmidt, M.; Fuhs, W.

Surface Passivation of Crystalline Silicon Wafers by Hydrogenated Amorphous Silicon Probed by Time Resolved Surface Photovoltage and Photoluminescence Spectroscopy

19th Europ. Photovoltaic Solar Energy Conference and Exhibition

Paris, France 07. Jun - 11. Jun 2004

Oral

Laades, A.; Kliefoth, K.; Stangl, R.; Schmidt, M.; Fuhs, W.

Characterization of the Amorphous-Crystalline Silicon Interface by Time Resolved Surface Photovoltage and Photoluminescence Techniques

DPG- Frühjahrstagung

Regensburg, Germany 08. Mar - 12. Mar 2004

Oral

Levy- Clement, C.; Lust, S.; Mamor, M.; Bastide, S.; Rappich, J.; Dittrich, T.

Investigations of p-type Macroporous Silicon Formation

4th Intern. Conf. on Porous Semiconductors - Science and Technology

Cullera-Valencia, Spain 14. Mar - 19. Mar 2004

Poster

Maydell, K. v.; Schmidt, M.; Korte, L.; Laades, A.; Stangl, R.; Scherff, M.; Fuhs, W.

Basis Electronic Properties and Optimization of TCO/a-Si:H/c-Si Hetero Solar Cells

9th Augustusburg Conf. of Advanced Science

Augustusburg, Germany 23. Sep - 25. Sep 2004

Poster

Rappich, J.; Fahoume, M.

Non-Radiative Recombination and Band Bending of p-Si(100) Surfaces during Electrochemical Deposition of Polycrystalline ZnO

Intern. Conf. on Polycrystalline Semiconductors POLYSE 2004

Potsdam, Germany 05. Sep - 10. Sep 2004

Oral

Rappich, J.; Güell, A. G.; Merson, A.; Hartig, P.; Dittrich, Th.; Shapira, Y.

Surface Recombination and Band Bending During Organic Layer Deposition on Silicon

55th Annual Meeting of the Intern. Society of Electrochemistry (ISE)

Thessaloniki, Greece 19. Sep - 24. Sep 2004

Oral

Rappich, J.; Merson, A.; Dittrich, Th.; Hartig, P.; Schulze, S.; Güell, A. G.

Engineering of Si Surfaces by Electrochemical Organic Layer Deposition

87. Bunsenkolloquium

Potsdam, Germany 31. Mar - 31. Mar 2004

Oral

Schmidt, M.; Korte, L.; Kliefoth, K.; Schöpke, A.; Stangl, R.; Laades, A.; Brendel, K.; Scherff, M.

Basic Electronic Properties of TCO/a-Si:H/c-Si Heterostructure-Solar-Cells

19th Europ. Photovoltaic Solar Energy Conference and Exhibition

Paris, France 07. Jun - 11. Jun 2004

Poster

Stangl, R.; Froitzheim, A.; Kriegel, M.; Kirste, S.; Elstner, L.; Brammer, T.; Fuhs, W.

AFORS-HET, a Numerical PC Program for Simulation of (Thin Film) Heterojunction Solar Cells, Version 1.1 (Open-Source on Demand), to be Distributed for Public Use

19th Europ. Photovoltaic Solar Energy Conference and Exhibition

Paris, France 07. Jun - 11. Jun 2004

Poster

Stangl, R.; Schaffarzik, D.; Laades, A.; Kliefoth, K.; Schmidt, M.; Fuhs, W.

Characterisation of Interfaces in Amorphous/Crystalline Silicon Heterojunction Solar Cells by Surface Photovoltage Spectroscopy

19th Europ. Photovoltaic Solar Energy Conference and Exhibition

Paris, France 07. Jun - 11. Jun 2004

Oral

Yukecheva, J.; Müller, F.; Suzuki, Y.; Müller, A.-D.; Angermann, H.; Hietschold, M.

Electrical Force Spectroscopy of Silicon Surfaces - Experiment and Theory

DPG- Frühjahrstagung

Regensburg, Germany 08. Mar - 12. Mar 2004

SE1.Others

Poster

Aggour, M.; Dittrich, T.; Sieber, I.; Rappich, J.

Anodic Preparation of Porous TiO₂ in Fluoride Solution

4th Intern. Conference on Porous Semiconductors - Science and Technology

Cullera-Valencia, Spain 14. Mar - 19. Mar 2004

Oral

Boit, C.; Kerst, U.; Sadewater, P.; Leihkauf, R.; Schömann, K. S.; Le Roy, E.; Lundquist, T.

Contacting Silicon with FIB for Backside Circuit Edit

30th Internat. Symp. for Testing and Failure Analysis ISTFA,

Worcester, Massachusetts, USA 14. Nov - 18. Nov 2004

Poster

Tanaka, S.; Yamamoto, A.; Makiuchi, S.; Matsuyama, R.; Rebien, M.; Henrion, W.; Tatsuoka, H.; Kuwabara, H.

Growth and Morphological Properties of β -FeSi₂ Layers

12th Intern. Conf. on Solid Films and Surfaces (ICSFS-12)

Hammamatsu, Japan 21. Jun - 25. Jun 2004

Poster

Würz, R.; Meeder, A.; Fuertes Marrón, D.; Schedel-Niedrig, Th.; Lauer mann, I.; Vogel, M.; Lux-Steiner, M. Ch.; Lips, K.; Bluhm, H.

Oxidation of CuGaSe₂ Crystals And Thin Films Studied by Electron Paramagnetic Resonance and X-Ray Photoelectron Spectroscopy

E-MRS Conference

Strasbourg, France 24. May - 28. May 2004

Oral

Würz, R.; Meeder, A.; Fuertes Marrón, D.; Schedel-Niedrig, Th.; Lips, K.; Knop-Gericke, A.

Oxidation of Single and Polycrystalline CuGaSe₂ Studied by Means of Electron Paramagnetic Resonance and Photoelectron Spectroscopy

14th Intern. Conf. on Ternary and Multinary Compounds ICTMC-14

Denver, Colorado, USA 27. Sep - 01. Oct 2004

SE2 - Heterogeneous material systems

ISL.User

Oral

Papathanasiou, O.; Siebentritt, S.; Bohne, W.; Strub, E.; Röhrich, J.; Calvet, W.; Pettenkofer, Ch.; Kristukat, Ch.; Lux-Steiner, M.

Cd-freie Pufferschichten für die Anwendung in CuInS₂ Dünnschichtsolarzellen

AKF-Frühjahrstagung

Regensburg 08. Mar - 12. Mar 2004

SE1.Others

Poster

Würz, R.; Meeder, A.; Fuertes Marrón, D.; Schedel-Niedrig, Th.; Lauermann, I.; Vogel, M.; Lux-Steiner, M. Ch.; Lips, K.; Bluhm, H.

Oxidation of CuGaSe₂ Crystals And Thin Films Studied by Electron Paramagnetic Resonance and X-Ray Photoelectron Spectroscopy

E-MRS Conference

Strasbourg, France 24. May - 28. May 2004

SE2.Analytcs

Invited Talk

Fischer, Ch.-H.; Bär, M.; Glatzel, Th.; Lauermann, I.; Lux-Steiner, M. Ch.

Interface Engineering in Chalcopyrite Thin Film Solar Devices

International Conference on Condensed Matter and Statistical Physics, 8ICCMSP 2004

Marrakech, Morocco 21. Sep - 21. Sep 2004

Oral

Fischer, Ch.-H.; Bär, M.; Grimm, A.; Kötschau, I.; Lauermann, I.; Rahne, K.; Reichardt, J.; Sokoll, S.; Lux-Steiner, M. Ch.; Heske, C.; Weinhardt, L.; Fuchs, O.; Storch, G.; Umbach, E.; Jung, C.; Gudat, W.; Niesen, T.P.; Visbeck, S.; Karg, F.

Synchrotroncharakterisierung von Chalkopyrit-Solarzell- und Modulstrukturen

BMBF Statusseminar Erneuerbare Energien 2004

Stuttgart, Germany 17. Mar - 18. Mar 2004

Oral

Glatzel, Th.; Schwarzman, A.; Grünbaum, E.; Barnham, K.; Mazzer, M.; Lux-Steiner, M.Ch.; Rosenwaks, Y.

Low Temperature Kelvin Probe Force Microscopy of Multi-Quantum Well Solar Cells

7th International Conference on Noncontact Atomic Force Microscopy (NC-AFM 2004)

Seattle, U.S.A. 12. Sep - 15. Sep 2004

Oral

Glatzel, Th.; Steigert H.; Klenk R.; Lux-Steiner M.Ch.

Zn_{1-x}MgxO as a Window Layer in Completely Cd-Free Cu(In,Ga)(S,Se)₂-Based Thin Film Solar Cells

14th International Photovoltaic Science and Engineering Conference (PVSEC-14)

Bangkok, Thailand 26. Jan - 30. Jan 2004

Oral

Glatzel, Th.; Steigert, H.; Sadewasser, S.; Klenk, R.; Lux-Steiner, M. Ch.

Kelvin Probe Force Microscopy in Ultrahigh Vacuum for Direct Imaging of Potential Distributions of semiconductor surfaces and interfaces

8th Int. Conference on Nanometer Scale Science and Technology

Venice, Italy 28. Jun - 02. Jul 2004

Poster

Hanna, G.; Ott, N.; Strunk, H.P.; Glatzel, Th.; Sadewasser, S.; Rau, U.; Werner, J.H.

Influence of Film Texture on Grain Boundary Activity in Cu(In,Ga)Se₂ Films

Spring-Meeting of the German Physical Society

Regensburg, Germany 08. Mar - 12. Mar 2004

Poster

Koebke, J.; Uder, B.; Sadewasser, S.; Glatzel, Th.

Kelvin Probe Force Microscopy in Ultrahigh Vacuum: Operation at variable temperature and electrical characterization of nanodevices

7th International Conference on Noncontact Atomic Force Microscopy (NC-AFM 2004)

Seattle, U.S.A. 12. Sep - 15. Sep 2004

Poster

Kötschau, I.M.; Bär, M.; Pistor, P.; Grimm, A.; Lauermann, I.; Lehmann, S.; Lux-Steiner, M.Ch.; Rusu, M.; Sokoll, S.; Fischer, Ch.-H.; Weinhardt, L.; Fuchs, O.; Heske, C.; Niesen, T.P.; Visbeck, S.; Karg, F.; Jung, C.; Gudat, W.

Quantification of x-ray emission and photoelectron spectra of layered polycrystalline thin film structures

BESSY User Meeting

Berlin, Germany 02. Dec - 03. Dec 2004

Oral

Muffler, H.-J.; Bär, M.; Lauermann, I.; Rahne, K.; Schröder, M.; Lux-Steiner, M.Ch.; Fischer, Ch.-H.; Niesen, T.P.; Karg, F.

Colloid attachment by ILGAR-layers: Creating fluorescing layers to increase quantum efficiency of solar cells Cells in the Blue Wavelength Region

14th International Photovoltaic Science and Engineering Conference (PVSEC-14)

Bangkok, Thailand 26. Jan - 30. Jan 2004

Poster

Rissom, T.; Siebentritt, S.; Lux-Steiner, M. Ch.;

Effect of proton irradiation on CuGaSe₂ epitaxial films

2004 E-MRS SPRING MEETING

Strasbourg 24. May - 28. May 2004

Oral

Sadewasser, S.

Kelvin Probe Force Microscopy

Workshop on Advanced Dynamic AFM Methods

Madrid, Spain 08. Oct - 10. Oct 2004

Oral

Schwarzman A., Glatzel Th., Rosenwaks Y., Saraf S., Strassburg E., Grunbaum E., Barkay Z., Wilshaw P., Barnham K., Bushnell D.B., Ekins-Daukes N.J., Mazzer M.

Ultra High Vacuum Kelvin Probe Force Microscopy of Multi Quantum Wells

8th Int. Conference on Nanometer Scale Science and Technology

Venice, Italy 28. Jun - 02. Jul 2004

SE2.Chemistry

Poster

Allsop, N.; Schönmann, A.; Muffler, H.-J.; Bär, M.; Kropp, T.;

CuInS₂ and In₂S₃ thin films prepared by Spray ILGAR

E-MRS Spring Meeting 2004

Strasbourg, France 24. May - 28. May 2004

Oral

Bär, M.; Muffler, H.-J.; Lux-Steiner, M.Ch.; Fischer, Ch.-H.; Weinhardt, L.; Heske, C.; Umbach, E.; Niesen, T.P.; Karg, F.

Chemical processes during Cd²⁺/NH³-treatment of Cu(In, Ga)(S, Se)₂-absorbers

14th International Photovoltaic Science and Engineering Conference (PVSEC-14)

Bangkok (Thailand) 26. Jan - 30. Jan 2004

Poster

Chraïbi, F.; Fahoume, M.; Ennaoui, A.; Delaplancke, J.L.

Formation and characterization of CuInSe₂ nanoparticles

8th ICCMSP

Morocco 21. Sep - 24. Sep 2004

Poster

Ennaoui, A.; Chraibi, F.; Fahoume, M.; Rami, M.; Benamar, E.; Aggour, M.; Delplancke, J. L.; Lux-Steiner, M. Ch.

Non-vacuum processes for chalcogenide photovoltaic materials

8th ICCMSP

Morocco 21. Sep - 24. Sep 2004

Oral

Ennaoui, A.; Lux-Steiner, M. Ch.

Cu chalcopyrite thin film solar cells with Zn-compound buffer layers: Materials, Device analysis and Performance

8th ICCMSP

Morocco 21. Sep - 24. Sep 2004

Poster

Fahoume, M.; Maghfoul, O.; Aggour, M.; Hartiti, B.; Chraibi, F.; Ennaoui, A.

Growth and characterization of ZnO thin films prepared by electrodeposition technique

8th ICCMSP

Morocco 21. Sep - 24. Sep 2004

Poster

Fischer, Ch.-H.; Bär, M.; Grimm, A.; Kötschau, I.M.; Lauer mann, I.; Reichardt, J.; Sokoll, S.; Lux-Steiner, M. Ch.; Heske, C.; Weinhardt, L.; Fuchs, O.; Storch, G.; Visbeck, S.; Niesen, T.P.; Karg, F.; Jung, C.; Gudat, W.

Probing local damp heat induced changes in un-encapsulated Cu(In,Ga)(S,Se)₂ solar modules by synchrotron radiation

European Solar Energy Conference and Exhibition

Paris, France 07. Jun - 11. Jun 2004

Poster

Muffler, H.-J.; Belaidi, A.; Vogel, M.; Guminskaya, T.; Ogacho, A.; Hilt, O.; Fischer, Ch.-H.; Dittrich, Th.

Modifikation elektronischer und chemischer Eigenschaften von TiO₂-Oberflächen durch Abscheidung extrem dünner oxidischer Schichten

DPG Frühjahrstagung

Regensburg, Germany 08. Mar - 12. Mar 2004

Poster

Sankapal, B. R.; Ennaoui, A.; Guminskaya, T.; Dittrich, Th.; Bohne, W.; Röhrich, J.; Strub, E.; Lux-Steiner, M. Ch.

Characterization of p-CuI prepared by the SILAR technique on Cu-tape/n-CuInS₂ for solar cells

EMRS 2004

Strasbourg, France 24. May - 28. May 2004

Oral

Sankapal, B. R.; Lux-Steiner, M. Ch.; Ennaoui, A.

TiO₂ and TiO₂-SiO₂ thin films and powders by one-step soft-solution method: Synthesis and characterizations

8th ICCMSP

Morocco 21. Sep - 24. Sep 2004

Oral

Sankapal, B. R.; Sartale, S.D.; Ennaoui, A.

Chemical and Electrochemical synthesis of nanosized TiO₂ anatase for large area photon conversion

IPS-15

Paris, France 04. Jul - 09. Jul 2004

Poster

Sartale, S. D.; Ennaoui, A.; Lux-Steiner, M. Ch.

Fabrication of electroplated CuInS₂ thin film based solar cells

19th European PV conference

Paris, France 07. Jun - 11. Jun 2004

Poster

Sartale, S.D.; Sankapal, B. R.; Ennaoui, A.

Preparation of Nanocrystalline ZnS by a New Chemical Bath Deposition Route

EMRS-2004

Strasbourg, France 24. May - 28. May 2004

SE2.Concepts

Poster

Aggour, M.; Dittrich, Th.; Sieber, I.; Rappich, J.

Anodic preparation of porous TiO₂ in fluoride solution

4th Int. Conf. on Porous Semiconductors - Science and Technology

Cullera-Valencia, Spain 14. Mar - 19. Mar 2004

Oral

Bayon, R.; Musembi, R.; Belaidi, A.; Guminskaya, T.; Lux-Steiner, M. Ch.; Dittrich, Th.

Highly structured TiO₂ / In(OH)_xSy / PbS / PEDOT:PSS for photovoltaic applications

15th Int. Conf. on Photochemical Conversion and Storage of Solar Energy

Paris, France 04. Jul - 09. Jul 2004

Poster

Belaidi, A.; Bayon, R.; Dittrich, Th.; Muffler, H.-J.; Fischer, Ch.-H.; Lux-Steiner, M. Ch.

On the role of buffer layers in solar cells with extremely thin absorbers

DPG Frühjahrstagung

Regensburg, Germany 08. Mar - 12. Mar 2004

Oral

Belaidi, A.; Bayon, R.; Dittrich, Th.; Muffler, H.-J.; Fischer, Ch.-H.; Lux-Steiner, M. Ch.

On the role of buffer layers in solar cells with extremely thin absorbers

DPG Frühjahrstagung

Regensburg, Germany 08. Mar - 12. Mar 2004

Poster

Belaidi, A.; Muffler, H.-J.; Dittrich, Th.

ILGAR deposition of buffer and absorber layer for eta-solar cell

15th Int. Conf. on Photochemical Conversion and Storage of Solar Energy

Paris, France 04. Jul - 09. Jul 2004

Oral

Gayvoronsky, V.; Galas, A.; Nipijko, S.; Brodyn, M.; Timoshenko, V.; Dittrich, Th.; Koch, F.; Petrik, I.;

Smirnova, N.; Eremenko, A.

Giant nonlinear optical response for nanoporous titanium dioxide photocatalytic activity monitoring

4th Int. Conf. on Porous Semiconductors - Science and Technology

Cullera-Valencia, Spain 14. Mar - 19. Mar 2004

Poster

Gayvoronsky, V.; Galas, A.; Nipijko, S.; Brodyn, M.; Timoshenko, V.; Dittrich, Th.; Koch, F.; Petrik, I.;

Smirnova, N.; Eremenko, A.

Application of nonlinear optical response for monitoring of nanoporous TiO₂ photocatalytic activity

15th Int. Conf. on Photochemical Conversion and Storage of Solar Energy

Paris, France 04. Jul - 09. Jul 2004

Poster

Guminskaya, T.; Bayon, R.; Urban, I.; Grigorieva, N.; Dittrich, Th.

Photospannungsuntersuchungen an In(OH)_xSy - und PbS Dünnschichten und -systemen

DPG Frühjahrstagung

Regensburg, Germany 08. Mar - 12. Mar 2004

Oral

Guminskaya, T.; Bayon, R.; Urban, I.; Grigorieva, N.; Dittrich, Th.

Photospannungsuntersuchungen an In(OH)_xSy und PbS Dünnschichten und systemen

DPG Frühjahrstagung

Regensburg, Germany 08. Mar - 12. Mar 2004

Invited Talk

Harneit, W.

Molecular structures of endohedral fullerenes for quantum computation

8th Int. Conf. on Condensed Matter & Statistical Physics

Marrakech, Morocco 21. Sep - 24. Sep 2004

Poster

Harneit, W.; et al.

Molecular Spintronics

Nanofair Exhibition

Karlsruhe, Germany 22. Nov - 24. Nov 2004

Poster

Hübener, K.

Diamond as a substrate for a fullerene based quantum computer

8. Deutsche Physikerinnentagung

Aachen, Germany 04. Nov - 07. Nov 2004

Poster

Koenenkamp, R.; Dloczik, L.

Material transfer in nano-scale compound structures

MRS spring meeting

San Francisco, CA 12. Apr - 16. Apr 2004

Oral

Koenenkamp, R.; Dloczik, L.; Gunther, D.

Optical and electrical properties of low temperature ZnO nano-wires

MRS spring meeting

San Francisco, CA 12. Apr - 16. Apr 2004

Poster

Korolev, F. A.; Nosova, L.; Belaidi, A.; Kytin, V. G.; Dittrich, Th.; Kozlov, S. N.

Impedance spectroscopy of nanoporous Al₂O₃ with adsorbed water

4th Int. Conf. on Porous Semiconductors - Science and Technology

Cullera-Valencia, Spain 14. Mar - 19. Mar 2004

Oral

Levý-Clement, C.; Lust, S.; Mamor, M.; Bastide, S.; Rappich, J.; Dittrich, Th.

Investigations of p-type macroporous silicon formation

4th Int. Conf. on Porous Semiconductors - Science and Technology

Cullera-Valencia, Spain 14. Mar - 19. Mar 2004

Oral

Mahrov, B.; Dittrich, Th.; Boschloo, G.; Dloczik, L.; Hagfeldt, A.

Photospannung bei Ladungsträgerinjektion von Farbstoffmolekülen in transparente Löcher- und Elektronenleiter

DPG Frühjahrstagung

Regensburg, Germany 08. Mar - 12. Mar 2004

Poster

Mahrov, B.; Dittrich, Th.; Boschloo, G.; Hagfeldt, A.; Siegbahn, H.; Rensmo, H.

Photo-electron spectroscopy and photovoltage studies of Ru(dcpbyH₂)₂(NCS)₂ / CuI and Ru(dcpbyH₂)₂(NCS)₂ / CuSCN interfaces for solar cell application

15th Int. Conf. on Photochemical Conversion and Storage of Solar Energy
Paris, France 04. Jul - 09. Jul 2004

Oral

Mahrov, B.; Dittrich, Th.; Dloczik, L.; Boschloo, G.; Hagfeldt, A.

Photovoltage study of charge injection from dye molecules into transparent hole and electron conductors

DPG-Tagung
Regensburg 08. Mar - 12. Mar 2004

Poster

Merson, A.; Dittrich, Th.; Rappich, J.; Zidon, Y.; Burstein, L.; Shapira, Y.

Electrochemical deposition of organic monolayers on TiO₂ surfaces

16th International Vacuum Congress
Venice, Italy 28. Jun - 02. Jul 2004

Poster

Muffler, H.-J.; Belaidi, A.; Vogel, M.; Guminskaya, T.; Fischer, Ch.-H.; Dittrich, Th.

Modifikation elektronischer und chemischer Eigenschaften von TiO₂-Oberflächen durch Abscheidung extrem dünner oxidischer und sulfidischer Schichten

DPG Frühjahrstagung
Regensburg, Germany 08. Mar - 12. Mar 2004

Poster

Naydenov, B.; Harneit, W.; Meyer, C.

Spin-spin Relaxation of Highly Diluted P@C₆₀

330th WE-Heraeus Seminar on "Controlling Decoherence"
Bad Honnef, Germany 26. Jul - 28. Jul 2004

Poster

Nosova, L.; Belaidi, A.; Guminskaya, T.; Gavrilov, S.; Bayon, R.; Sieber, I.; Timoshenko, V.; Urban, I.; Grigorieva, N.; Dittrich, Th.

Wet chemical deposition of semiconducting materials into porous Al₂O₃

DPG Frühjahrstagung
Regensburg, Germany 08. Mar - 12. Mar 2004

Poster

Nosova, L.; Gavrilov, S.; Kravchenko, D.; Grigorieva, N.; Urban, I.; Bayon, R.; Belaidi, A.; Guminskaya, T.; Muffler, H.-J.; Sieber, I.; Dittrich, Th.

Deposition of materials into porous alumina by different techniques

4th Int. Conf. on Porous Semiconductors - Science and Technology
Cullera-Valencia, Spain 14. Mar - 19. Mar 2004

Oral

Rühle, S.; Dittrich, Th.; Cahen, D.

The role of built-in fields in dye sensitized solar cells with and without dense TiO₂ underlayer

15th Int. Conf. on Photochemical Conversion and Storage of Solar Energy
Paris, France 04. Jul - 09. Jul 2004

Oral

Sankapal, B.R.; Ennaoui, A.; Guminskaya, T.; Dittrich, Th.; Bohne, W.; Röhrich, J.; Strub, E.; Lux-Steiner, M. Ch.

Characterization of p-CuI prepared by the SILAR technique on Cu-tape/n-CuInS₂ for solar cells

E-MRS Spring Meeting 2004
Strasbourg, France 24. May - 28. May 2004

Poster

Schwen, D.; Nix, A.-K.; Hofsaess, H.; Zollondz, J.-H.; Weidinger, A.; Trautmann, C.; Krauser, J.
Electrical properties of tracks in swift heavy ion irradiated tetrahedral amorphous carbon
14th International Conference on Ion Beam Modification of Materials (IBMM 2004)
Monterey, California, USA 05. Sep - 10. Sep 2004

Oral

Schwen, D.; Ronning, C.; Hofsaess, H.; Zollondz, J.-H.; Weidinger, A.
Field emission studies on swift heavy ion irradiated tetrahedral amorphous carbon (ta-C)
2nd Workshop on Ion Track Technology
Uppsala, Sweden 26. Feb - 27. Feb 2004

Oral

Seeger, S.; Weiß, V.; Tributsch, H.; Dittrich, Th.; Guminskaya, T.; Mientus, R.; Ellmer, K.
Reactively sputtered MoS_x and WS_x absorber for thin film solar cells
19th European Photovoltaic Solar Energy Conference and Exhibition
Paris, France 07. Jun - 11. Jun 2004

Poster

Skryshevsky, V. A.; Zinchuk, V. M.; Milovanov, Y. A.; Benilov, A. I.; Boyko, Y. V.; Tretyak, O. V.; Dittrich, Th.
Influence of adsorbates on energetic structure of localised states in porous silicon
4th Int. Conf. on Porous Semi-conductors - Science and Technology
Cullera-Valencia, Spain 14. Mar - 19. Mar 2004

Oral

Zollondz, J.-H.; Schwen, D.; Hofsaess, H.; Weidinger, A.; Trautmann, C.; Meijer, J.; Vogel, T.; Krauser, J.; Bert-hold, J.; Schultrich, B.
Grundlagen und Anwendung von leitenden Ionenspuren
Arbeitstreffen Forschung mit Sonden und Ionen, 29.9. 1.10.2004
Stuttgart, Germany 29. Sep - 01. Oct 2004

SE2.Contacts

Oral

Bakehe, S.; Klenk, R.; Lux-Steiner, M. Ch.
Wide-gap Cu(In,Ga)S₂ Thin Film Solar Cells on Transparent Substrates
19th European Photovoltaic Solar Energy Conference
Paris, France 07. Jun - 11. Jun 2004

Oral

Glatzel, Th.; Steigert, H.; Sadewasser, S.; Klenk, R.; Lux-Steiner, M. Ch.
Potential distribution of Cu(In,Ga)(S,Se)₂ solar cell cross-sections measured by kelvin probe force microscopy
E-MRS 2004 Spring Meeting
Strasbourg, France 24. May - 28. May 2004

Poster

Kaigawa, R.; Wada, T.; Bakehe, S.; Klenk, R.
The effect of sulfur pressure on the depth distribution of impurities in Cu(In,Ga)S₂ Films
E-MRS 2004 Spring Meeting
Strasbourg, France 24. May - 28. May 2004

Oral

Kaufmann, C. A.; Neisser, A.; Klenk, R.; Scheer, R.
Transfer of Cu(In,Ga)Se₂ Thin Film Solar Cells to flexible substrates
E-MRS 2004 Spring Meeting
Strasbourg, France 24. May - 28. May 2004

Poster

Kaufmann, C. A.; Neisser, A.; Scheer, R.; Klenk, R.; Kroon, M. A.

Cu(In,Ga)Se₂ Thin Film Solar Cells on Flexible Substrates

19th European Photovoltaic Solar Energy Conference

Paris, France 07. Jun - 11. Jun 2004

Invited Talk

Klenk, R.; Kaufmann, Ch.; Neisser, A.; Scheer, R.

Development of Flexible Chalcopyrite-Based Solar Cells

European Space Technology Harmonisation (Mapping Meeting)

Noordwijk, NL 15. Sep - 15. Sep 2004

Invited Talk

Klenk, R.; Klaer, J.; Scheer, R.; Lux-Steiner, M. Ch.; Luck, I.; Meyer, N.; Rühle, U.

Solar cells based on CuInS₂ an overview

E-MRS 2004 Spring Meeting

Strasbourg, France 24. May - 28. May 2004

Oral

Lauermann, I.; Grimm, A.; Kötschau, I., Fischer, Ch.-H.; Sokoll, S.; Klenk, R.; Glatzel, Th.; Lux-Steiner, M. Ch.; Weinhardt, L.; Storch, G.; Fuchs, O.; Heske, C.; Jung, C.; Gudat, W.; Niesen, T. P.; Visbeck, S.; Karg, F.

Interface Analysis of ZnO/CIGSSe and (Zn,Mg)O/CIGSSe by synchrotron-based spectroscopy

E-MRS 2004 Spring Meeting

Strasbourg, France 24. May - 28. May 2004

Oral

Meyer, N.; Luck, I.; Rühle, U.; Klaer, J.; Klenk, R.; Lux-Steiner, M.Ch.; Scheer, R.

Towards Thin Film Module Production Using a Simplified CIS Process

19th European Photovoltaic Solar Energy Conference

Paris, France 07. Jun - 11. Jun 2004

Poster

Neisser, A.; Kaufmann, C. A.; Klenk, R.; Scheer, R.

Laser-light scattering as an in-situ process control for pvd deposition of Cu(In,Ga)Se₂ thin films

E-MRS 2004 Spring Meeting

Strasbourg, France 24. May - 28. May 2004

Oral

Würz, R.; Meeder, A.; Fuertes Marrón, D.; Rusu, M.; Schedel-Niedrig, Th.; Lips, K.; Knop-Gericke, A.

Oxidation of Single and Polycrystalline CuGaSe₂ Studied by Means of Electron Paramagnetic Resonance and Photoelectron Spectroscopy

ICTMC 14

Denver, USA 27. Sep - 01. Oct 2004

SE₂.Semico

Oral

Bakehe, S.-N.; Klenk, R.; Lux-Steiner, M.-Ch.

WIDEGAP CU(IN,GA)S₂ THIN FILM SOLAR CELLS ON TRANSPARENT SUBSTRATES

19th European Photovoltaic Solar Energy Conference 2004 in Paris, France

Paris, Frankreich 07. Jun - 11. Jun 2004

Poster

Dworzak, M.; Hoffmann, A.; Riemann, T.; Christen, J.; Beckers, I.; Siebentritt, S.

Relaxation and Radiative Recombination Dynamics in CuGaSe₂

Spring Meeting of the European Materials Research Society

Strasbourg 24. May - 28. May 2004

Invited Talk

Klenk, R.

Präparationsverfahren für Chalkopyrit-Solarmodule

Frühjahrstagung des Arbeitskreises Festkörperphysik (DPG)

Regensburg 08. Mar - 12. Mar 2004

Poster

Papathanasiou, O.; Siebentritt, S.; Bohne, W.; Klaer, J.; Lauer mann, I.; Rahne, K.; Röhrich, J.; Rusu, M.; Strub, E.; Lux-Steiner, M. Ch.

Cd-free buffer layers for CuInS₂ solar cells prepared by a dry process

19th European Photovoltaic Solar Energy Conference

Paris, France 07. Jun - 11. Jun 2004

Poster

Rega, N.; Siebentritt, S.; Albert, J.; Nishiwaki, S.; Zajogin, A.; Lux-Steiner, M. Ch.; Kniese, R. (ZSW); Romero, M. (NREL)

Excitonic Luminescence of $Cu(In_{1-x}Ga_x)Se_2$

E-MRS

Strasbourg 24. May - 28. May 2004

Poster

Riemann, T.; Christen, J.; Dworzak, M.; Hoffmann, A.; Siebentritt, S.; Beckers, I.

Kinetics of Donor-Acceptor-pair Recombinations in Cu-deficient CuGaSe₂

Spring Meeting of the European Materials Research Society

Strasbourg 24. May - 28. May 2004

Oral

Rusu, M.; Doka, S.; Bohne, W.; Schedel-Niedrig, Th.; Arushanov, E.; Lux-Steiner, M. Ch.

The CCSVT-Growth of CuGaSe₂ Absorbers, Material Properties and Solar Cell Performance

ICTMC 14

Denver, USA 27. Sep - 01. Oct 2004

Oral

Rusu, M.; Doka, S.; Kaufmann, Ch. A.; Grigoreva, N.; Schedel-Niedrig, Th.; Lux-Steiner, M. Ch.

Solar Cells based on CCSVT-Grown CuGaSe₂ Absorber and Device Properties

E-MRS 21th Spring Meeting 2004

Strasbourg, France 24. May - 28. May 2004

Poster

Rusu, M.; Doka, S.; Meeder, A.; Würz, R.; Strub, E.; Röhrich, J.; Bloeck, U.; Schubert-Bischoff, P.; Bohne, W.; Schedel-Niedrig, Th.; Lux-Steiner, M. Ch.

Structural Peculiarities of CCSVT-Grown CuGaSe₂ Thin Films

E-MRS 21th Spring Meeting 2004

Strasbourg, France 24. May - 28. May 2004

Invited Talk

Schedel-Niedrig, Th.

Material Properties and Application Issues of Chalcopyrite Thin Films

Polarized Electron Sources and Polarimeters - PESP-Workshop 2004

Mainz, Germany 07. Oct - 09. Oct 2004

Invited Talk

Siebentritt, S.

Defects and transport in wide gap chalcopyrites

Conference on photoactive materials

Kariega, South Africa 25. Feb - 29. Feb 2004

Oral

Siebentritt, S.

ELECTRONIC TRANSPORT MECHANISMS IN CUGASE2

Springmeeting of the European Material Reserach Society

Strassbourg, France 24. May - 28. May 2004

Poster

Siebentritt, S.

The amphoteric defect modell in chalcopyrites

Gordon Conference

Gordon, New England, New Hampshire, USA 18. Jul - 23. Jul 2004

Oral

Siebentritt, S.

Doping defects in chalcopyrites

Gordons Conference on Defects in Semiconductors

New London, USA 18. Jul - 23. Jul 2004

SE3.Baseline

Poster

Klaer, J.; Scheer, R.; Klenk, R.; Boden, A.; Köble, C.

Stress behaviour of CuInS₂ thin film PV-modules studied by a specific test structure

19th European Photovoltaic Solar Energy Conference

Paris 07. Jun - 11. Jun 2004

Oral

Meyer, N.; Luck, I.; Rühle, U.; Klaer, J.; Klenk, R.; Lux-Steiner, M.C.; Scheer, R.

Towards thin film module production using a simplified CIS process

19th European Photovoltaic Solar Energy Conference

Paris 07. Jun - 11. Jun 2004

SE3 - Technology

SE2.Contacts

Invited Talk

Klenk, R.; Kaufmann, Ch.; Neisser, A.; Scheer, R.

Development of Flexible Chalcopyrite-Based Solar Cells

European Space Technology Harmonisation (Mapping Meeting)

Noordwijk, NL 15. Sep - 15. Sep 2004

SE3.Baseline

Poster

Asenjo B.; Chaparro A.M.; Gutiérrez M.T.; Herrero J.; Klaer J.

Growth and properties of In₂S₃ thin films for buffer layers of CuInS₂ based solar cells

19th European Photovoltaic Solar Energy Conference

Paris 07. Jun - 11. Jun 2004

Poster

Asenjo, B; Chaparro A.M.; Gutiérrez, M.T.; Herrero, J.; Klaer, J.

Growth and properties of In₂S₃ thin films for buffer layers of CuInS₂ based solar cells

19th European Photovoltaic Solar Energy Conference and Exhibition

Paris, France 07. Jun - 11. Jun 2004

Poster

Klaer, J.; Scheer, R.; Klenk, R.; Boden, A.; Köble, C.

Stress behaviour of CuInS₂ thin film PV-modules studied by a specific test structure

19th European Photovoltaic Solar Energy Conference and Exhibition

Paris, France 07. Jun - 11. Jun 2004

Poster

Klaer, J.; Scheer, R.; Klenk, R.; Boden, A.; Köble, C.

Stress behaviour of CuInS₂ thin film PV-modules studied by a specific test structure

19th European Photovoltaic Solar Energy Conference

Paris 07. Jun - 11. Jun 2004

Oral

Meyer, N.; Luck, I.; Rühle, U.; Klaer, J.; Klenk, R.; Lux-Steiner, M.C.; Scheer, R.

Towards thin film module production using a simplified CIS process

19th European Photovoltaic Solar Energy Conference

Paris 07. Jun - 11. Jun 2004

SE3.Control

Oral

Rudigier, E.; Djordjevic J.; von Klopmann; Scheer R.

Real-time studies of Cu-In chalcogenization using in-situ XRD and Raman spectroscopy

POLYSE 2004

Potsdam 06. Sep - 10. Sep 2004

Poster

Rudigier, E.; Palm, J.; Scheer, R.

TOWARDS A FAST PROCESS CONTROL FOR Cu(In,Ga)(Se,S)₂ ABSORBERS. THE SURFACE CHALCOGEN RATIO ASSESSED BY RAMAN SPECTROSCOPY

19th EU PVSEC

Paris 07. Jun - 11. Jun 2004

Poster

Sakurai K.; Scheer, R.; Nakamura, Y.; Kimura, Y.; Baba, T.; Kaufmann, C.A.; Neisser, A.; Ishizuka, S.; Yamada, A.; Matsubara, K.; Iwata, K.; Fons, P.; Nakanishi, H.; Niki, S.

Structural changes of CIGS during deposition investigated by spectroscopic light scattering: a study on Ga concentration and Se pressure

PVSEC-14

Bangkok 26. Jan - 30. Jan 2004

SE4 - Dynamics of interfacial reactions

SE4.Cells

Poster

Batyrev, I.G.; Hannappel, T.; McMahon, W.E.; Zhang, S.B.; Olson, J.M.; Wei, S.-H.

Ab-initio calculations of RDS of ordered GaInP: Bulk and surface with steps

Palais des Congres de Montreal, Annual APS March Meeting 2004

Quebec, Canada 22. Mar - 26. Mar 2004

Oral

Bork, T.; Bakin, A.;

In-Situ Reflectance Anisotropy Spectra (RAS) Investigation

DPG Frühjahrstagung

Regensburg 08. Mar - 12. Mar 2004

Poster

Giesen, Ch.; Heuken, M.; Dimroth, F.; Bett, A.W.; Hannappel, T.; Kollonitsch, Z.; Möller, K.; Seip, M.; Koch, J.; Greiling, A.

MOVPE growth of Sb-based semiconductors in a 9x2-inch planetary reactor

6th International Conference on the Thermophotovoltaic Generation of Electricity
Freiburg 14. Jun - 16. Jun 2004

Invited Talk

Hannappel, T.; Kollonitsch, Z.; Möller, K.; Neumann, S.; Tegude, F.-J.; Willig, F.

InP/GaAsSb-Grenzflächenuntersuchungen im Hinblick auf InP-basierte Bauelemente

19. DGKK -Arbeitskreistreffen Epitaxie von III/V-Halbleitern
Freiburg 09. Dec - 10. Dec 2004

Poster

Hannappel, T.; McMahon, W.E.; Olson, J.M.

MOCVD preparation and termination of Si(100) surfaces

12th International Conference on on Metal Organic Vapor Phase Epitaxy
Maui, Hawaii, USA 30. May - 04. Jun 2004

Invited Talk

Hannappel, T.; Toebe, L.; Gundlach, L.; Ernstorfer, R.; Willig, F.

Atomic order, energetics and femtosecond electron dynamics of MOCVD-grown III-V semiconductor surfaces

16th Workshop on Quantum Solar Energy Conversion
Salzburg, Austria 14. Mar - 20. Mar 2004

Poster

Kollonitsch, Z.; Möller, K.; Neumann, S.; Tegude, F.-J.; Neges, M.; Willig, F.; Hannappel, T.

RAS und UHV study of MOVPE grown GaAsSb on InP(100) and InP/GaAsSb heterointerfaces

12th International Conference on Metal Organic Vapor Phase Epitaxy
Maui, Hawaii, USA 30. May - 04. Jun 2004

Oral

Kollonitsch, Z.; Neges, M.; Möller, K.; Willig, F.; Hannappel, T.

In-situ- and UHV-investigation of MOCVD-grown GaAsSb-interfaces

Frühjahrstagung der DPG
Regensburg 08. Mar - 12. Mar 2004

Oral

Kollonitsch, Z.; Neges, M.; Möller, K.; Willig, F.; Hannappel, T.;

In-Situ- and UHV-Investigation of MOCVD-Grown GaAsSb-Interfaces

DPG Frühjahrstagung
Regensburg 08. Mar - 12. Mar 2004

Poster

Letzig, T.; Schimper, H.-J.; Hannappel, T.; Willig, F.;

Direct evidence from FTIR for hydrogen incorporation into the MOCVD-grown P-rich reconstructed InP(100) surface

DPG Frühjahrstagung
Regensburg 08. Mar - 12. Mar 2004

Poster

Möller, K.; Kollonitsch, Z.; Seidel, U.; Giesen, Ch.; Heuken, M.; Willig, F.; Hannappel, T.

In-situ monitoring and UHV-characterization of MOVPE-grown InSb(100)

12th International Conference on Metal Organic Vapor Phase Epitaxy
Maui, Hawaii, USA 30. May - 04. Jun 2004

Poster

Möller, K.; Toebe, L.; Kollonitsch, Z.; Giesen, Ch.; Heuken, M.; Willig, F.; Hannappel, T.

MOVPE in-situ monitoring and analysis of substrate deoxidation of GaSb(100)

Frühjahrstagung der DPG

Regensburg 08. Mar - 12. Mar 2004

Invited Talk

Olson, J.M.; Geisz, J.; McMahon, W.E.; Hannappel, T.; Jones, K.M.; Moutinho, H.; Al-Jassim, M.M.

MOCVD growth of GaPN on Si

12th International Conference on Metal Organic Vapor Phase Epitaxy

Hawaii, USA 30. May - 04. Jun 2004

Invited Talk

Schimper, H.-J.; Kollonitsch, Z.; Möller, K.; Seidel, U.; Bloeck, U.; Giesen, C.; Heuken, M.;

Schwarzburg, K.; Willig, F.; Hannappel, T.

Untersuchungen zur Entwicklung von InP-basierten III-V Solarzellen

19. DGKK - Arbeitskreistreffen Epitaxie von III/V-Halbleitern

Freiburg 09. Dec - 10. Dec 2004

SE4.Dynamics

Oral

Ernstorfer, R.;

Ultrafast molecule to semiconductor electron transfer via different anchor groups in ultra-high-vacuum

14th International Conference on Ultrafast Phenomena

Niigata, Japan 25. Jul - 30. Jul 2004

Poster

Ernstorfer, R.; Gundlach, L.; Felber, S.; Eichberger, R.; Zimmermann, C.; Storck, W.S.; Willig, F.

Ultrafast molecule to semiconductor electron transfer via different bridge groups in ultra-high-vacuum

14th International Conference on Ultrafast Phenomena

Niigata, Japan 25. Jul - 30. Jul 2004

Oral

Ernstorfer, Ralph.; Gundlach, Lars.; Felber, Silke.; Perrson, Petter.; Letzig, Tobias.; Zimmermann, Carsten.; Eichberger, Rainer.; Willig, Frank.

Pump-Probe-Spectroscopy of Ultrafast Heterogeneous Electron Transfer from Perylene to colloidal TiO₂

DPG 68 Physikertagung und AMOP-Frühjahrstagung

Ludwig-Maximilians-Universität 22. Mar - 26. Mar 2004

Oral

Neges, M.; Schwarzburg, K.; Willig, F.;

Fingerprints of not thermal distributed charge carriers in the photocurrent of an InP photovoltaic structure at low temperatures

DPG Frühjahrstagung

Regensburg 08. Mar - 12. Mar 2004

Invited Talk

Willig F.

Ultrafast photo-induced electron transfer from aromatic chromophores into semiconductors probed in ultra-high-vacuum

205th ECS Meeting

San Antonio, USA 09. May - 13. May 2004

Invited Talk

Willig, F.

Ultrafast electron transfer dynamics on the surface of semiconductors in the absence and presence of attached molecules

49th International Symposium on Optical Science and Technology
Denver, USA 02. Aug - 06. Aug 2004

Invited Talk

Willig, F.

Heterogeneous electron transfer in ultra-high-vacuum probed with transient absorption and two-photon-photoemission

Trombay Symposium BARC
Mumbai, India 08. Jan - 12. Jan 2004

Oral

Willig, F.

Direct time-resolved measurement of the strength of electronic coupling in the presence of a long saturated molecular spacer

55th International Society of Electrochemistry Meeting
Thessaloniki, Greece 19. Sep - 24. Sep 2004

Invited Talk

Willig, F.

Ultrafast Electron Transfer Dynamics at the Surface of Semiconductors with/ without Attached Molecules

Seminar of the SFB Advances Light Sources at the University of Vienna
Wien, Austria 08. Oct - 08. Oct 2004

Oral

Willig, F.;

Measuring and modeling hot electron dynamics for third generation solar cells

PVSEC-14
Bangkok 26. Jan - 30. Jan 2004

SE4.Others

Poster

Alam, M.S., Rao, B.S.M., Janata, E.

Reactions of OH and H with aliphatic alcohols. A pulse radiolysis study.

27th International Symposium on Free Radicals
Taipei, Taiwan 25. Jul - 30. Jul 2004

Invited Talk

Janata, E.

Pulse Radiolysis and its Application in Physical Chemistry

83rd International Bunsen Discussion Meeting
Dresden 24. Oct - 27. Oct 2004

Oral

Janata, E.; Karolczak, S.

The reaction of H, OH and eaq⁻ with isobutene in aqueous solution. A pulse radiolysis study.

XIII Meeting of the Polish Radiation Research Society Maria Sklodowski-Curie
Lodz, Polen 13. Sep - 13. Sep 2004

SE5 - Solar energy**SE5.Energetics**

Oral

Herrmann, I., Schmithals, G., Dorbandt, I., Bogdanoff, P., Fiechter, S., Tributsch, H.***New Materials for the electrochemical oxygen reduction: Effect of different morphologies on the activity of heat treated CoTMPP**

ISE 2004

Thessaloniki, Griechenland 19. Sep - 24. Sep 2004

Oral

Herrmann, I., Schmithals, G., Dorbandt, I., Bogdanoff, P., Fiechter, S., Tributsch, H.***New Materials for the electrochemical oxygen reduction: Effect of different morphologies on the activity of heat treated CoTMPP**

International Society of Electrochemistry 2004

Thessaloniki-Griechenland 19. Sep - 24. Sep 2004

Poster

*Matthias Junghänel und Helmut Tributsch***Monitoring the reactivity of oxide interfaces in dye solar cells with photocurrent imaging techniques.**

IPS-15 (International Conference on Photochemical Conversion and Storage of Solar Energy)

Paris 01. Aug - 06. Aug 2004

Poster

Bogdanoff, P., Herrmann, I., Schmithals, G., Dorbandt, I., Fiechter, S.***Structural characterisation of the oxygen reduction catalytic centre of pyrolyzed CoTMPP**

ISE 2004

Thessaloniki, Griechenland 19. Sep - 24. Sep 2004

Oral

*Ellmer, K.***Plasmagestützte Schichtabscheideverfahren für Dünnschichtsolarzellen: Prinzipien und Anwendungen**

Frühjahrstagung der Deutschen Physikalischen Gesellschaft, Arbeitskreis Festkörperphysik, Symposium

Regensburg 08. Mar - 12. Mar 2004

Invited Talk

*Ellmer, K.***Beweglichkeitsbegrenzung von entartet dotierten Zinkoxidschichten und deren mögliche Überwindung**

Transparente leitfähige Oxide-Grundlagen und Anwendungen in der flexiblen Elektronik (TCO2004)

leipzig 29. Mar - 30. Mar 2004

Oral

*Ellmer, K.***Magnetronspütern von Sulfiden für die Photovoltaik**

XI. Erfahrungsaustausch

Mühleithen 02. Mar - 04. Mar 2004

Invited Talk

*Ellmer, K., Unold, T.; Menner, R.***Reaktives Magnetronspütern von Sulfidschichten - eine neue Dünnschichtsolarzellentechnologie**

EFDS-Workshop

Frankfurt / Main 01. Apr - 01. Apr 2004

Oral

G. Schmithals, S. Fiechter, P. Bogdanoff, I. Herrmann, I. Dorbandt, H. Tributsch

Novel porphyrine based electrocatalysts for oxygen reduction

Fuel Cells Science & Technology

München 06. Oct - 07. Oct 2004

Invited Talk

Jungblut, H.; Jakubowicz, J.; Lewerenz, H.J.

Metastable nanostructure formation during porous Si formation

ISE 2004 anual meeting Thesaloniki, Greece

Thesaloniki, Greece 17. Sep - 22. Sep 2004

Poster

Kolenko, Yu.V.; Churagulov, B.R.; Kunst, M.; Colbeau-Justin, C.;

Photocatalytic properties of nanocrystalline TiO₂ powders

EMRS Spring Meeting 2004

Strasbourg 24. May - 28. May 2004

Invited Talk

Kunst, M.

Photocatalytic effects in TiO₂ powders

Universite Cergy-Pontoise (Frankreich)

Paris 21. Oct - 21. Oct 2004

Oral

Kunst, M.; Colbeau-Justin c.;

The relation between excess charge carrier kinetics and photocatalytic properties in TiO₂ powders

NanoChemistry Workshop 2004

Darmstadt 18. Jun - 20. Jun 2004

Invited Talk

Lewerenz, H.J.

HREELS Investigation on the Self Organized Nanostructure Formation on Silikon.

HREELS- Minisymposium

Cotbus 20. Apr - 20. Apr 2004

Oral

M. Thomalla, H. Tributsch

Chromatographic Studies of Photodegradation of RuL₂(SCN)₂ in Nanostructured Dye Sensitization Solar Cells

IPS-15 (International Conference on Photochemical Conversion and Storage of Solar Energy)

Paris 01. Aug - 06. Aug 2004

Poster

P. Maruthamuthu, S. Fiechter, H. Tributsch*

Lipid (Detergent) Based Composite Dye Solar Cell

IPS-15 (International Conference for Photochemical Concersion and Storage of Solar Energy)

Paris 01. Aug - 06. Aug 2004

Oral

Schmithals, G.; Bogdanoff, P.; Herrmann, I.; Dorbandt, I.; Fiechter, S.; Tributsch, H.*

Novel carbon supported electrocatalysts for oxygen reduction

CarboCat

Lausanne 18. Jul - 20. Jul 2004

Poster

Schwarz, R.; Braz, T.; Sanguino, P.; Macarico, A.; Vieira, M.; Wünsch, F.; Kunst, M.; Marques, C. P.; Alves, E.

Changes in Spectral Response of Thick Amorphous Silicon Detectors After Irradiation

19th EUROPEAN PHOTOVOLTAIC SOLAR ENERGY CONFERENCE AND EXHIBITION

Paris 07. Jun - 11. Jun 2004

Poster

Seeger, S.; V. Weiß; H. Tributsch; T. Dittrich; T. Guminskaya; R. Mientus; K. Ellmer

REACTIVELY SPUTTERED MOS_x AND WS_x ABSORBERS FOR THIN FILM SOLAR CELLS

19th European Photovoltaic Solar Energy Conference and Exhibition

Paris, France 07. Jun - 11. Jun 2004

Oral

Skorupska, K.; Aggour, M.; Goncalves, E.; Hunger, R.; Jungblut, H.; Kanis, M.; Lublow, M.; Rütther, E.; Wilhelm, T.; Lewerenz, H.-J

Initial stage of Si dissolution in alkaline media using photoelectron spectroscopy and atomic force microscopy

DPG-Frühjahrstagung

Regensburg 08. Mar - 08. Mar 2004

Invited Talk

Skorupska, K.; Jakubowicz, J.; Jungblut, H.; Lewerenz, H.J.

Observation of Metastable Self-Organised Structure During Porous Silicon Formation

E-MRS 2004

Strasbourg 24. May - 28. May 2004

Oral

Skorupska, K.; Wilhelm, T.; Kanis, M.; Aggour, M.; Goncalves, E.; Lublow, M.; Rütther, E.; Jungblut, H.; Lewerenz, H.J.

Oxidation and Dissolution Phenomena in the Chemical and Electrochemical Pathways of Silicon Etching

BESSY user meeting 2004

Berlin 02. Dec - 02. Dec 2004

Invited Talk

Tomm, Y.

Crystal Growth of Materials for Photovoltaics

2004 Fall International Symposium on Crystal Growth and Devices

Seoul, Korea 10. Nov - 13. Nov 2004

Invited Talk

Tributsch, H.

Kinetically determined Solar Cells

IPS-15 (International Conference on Photochemical Conversion and Storage of Solar Energy)

Paris 01. Aug - 06. Aug 2004

Oral

Tributsch, H.

PEM-Brennstoffzellen: Neue Katalysatoren und bionische Aspekte

Jahrestagung, Forschungsverbund Solarenergie

Berlin 25. Nov - 26. Nov 2004

Invited Talk

Tributsch, H.

Bionic Strategies Towards a Sustainable Solar Hydrogen and Fuel Technology

International Steering Committee Meeting on Solar-Hydrogen

Sydney 22. Aug - 27. Aug 2004

Invited Talk

Tributsch, H.

Material Research Challenges towards a Corrosion Stable Photovoltaic Hydrogen Generating Membrane

International Conference on Materials for Hydrogen Energy

Sydney 27. Aug - 27. Aug 2004

Invited Talk

Tributsch, H.

Bionische Forschung zur tensilen Wasser-Technologie der Baeume

Bionik: Innovationsimpulse aus der Natur

Bremen 29. Oct - 30. Oct 2004

Oral

Wilhelm, T.; Berenguier, B.; Aggour, M.; Gaul, M.; Winkelkemper, M.; Kanis, M.; Goncalves, E.; Jungblut, H.; Lewerenz, H.-J.

8% efficient CuInS₂ (CIS) solar cells with electrochemically removed Cu-S-phases

DPG Frühjahrstagung

Regensburg 08. Mar - 08. Mar 2004

Oral

Wilhelm, T.; Berenguier, B.; Aggour, M.; Kanis, M.; Jungblut, H.; Lewerenz, H.-J.

Efficient CuInS₂ (CIS) solar cells by photoelectrochemical conditioning

International Conference on Photochemical Conversion and Storage of Solar Energy (IPS-15)

Paris 04. Jul - 09. Jul 2004

Oral

Wilhelm, T.; Berenguier, B.; Aggour, M.; Kanis, M.; Lewerenz, H.-J.

Electrochemically Processed CuInS₂ (CIS) Absorber Layers

EMRS Spring Meeting 2004

Straßburg 24. May - 28. May 2004

Invited Talk

Wünsch, F.

Characterization of Silicon by Non-Invasive Microwave Conductivity Techniques

Hydrogen Related Defects in Semiconductors

University of Salerno 25. Nov - 25. Nov 2004

SE5.Interfaces

Poster

Jungblut, H., Lewerenz, H. J.

Nascent Phases of Porous Silicon: Surface Chemistry and Nanostructure Formation

79. AGEF-Symposium: 25 Jahre Elektrochemie in Düsseldorf

Düsseldorf 18. Nov - 19. Nov 2004

Oral

Lewerenz, H. J.; Jakubowicz, J.; Jungblut, H.

Nascent and Metastable Phases in Nanostructure Evolution on Silicon

4th Joint International Meeting of the Electrochemical Societies of the US and Japan

Honolulu, Hawaii, USA 03. Oct - 08. Oct 2004

Invited Talk

Lewerenz, H. J.; Jakubowicz, J.; Jungblut, H.

Site specific electrolyte interaction at terraced Si(111) surfaces

4th Joint International Meeting of the Electrochemical Societies of the US and Japan

Honolulu, Hawaii, USA 03. Oct - 08. Oct 2004

Invited Talk

Lublow, M.

Comparison of Spectroscopic Ellipsometry and Brewster-Angle Spectroscopy on chemically modified Si(111) surfaces

Seminar

BTU-Cottbus 13. Jan - 13. Jan 2004

SE6 - Electronic structure of semiconductor interfaces**SE6.BESSY**

Oral

*Hunger, R.; Jaegermann, W.; Calvet, W.; Lehmann, C.; Pettenkofer, C.; Sakurei, K.; Niki, S.***Angle-resolved photoelectron spectroscopy of CuInSe₂(001)**

DPG-Frühjahrstagung (AKF)

Regensburg 08. Mar - 12. Mar 2004

Poster

*Lehmann, C.; Calvet, W.; Pettenkofer, C.***Epitaxial CuInS₂ on Si(111) using di-tert-butyl disulfide as sulphur precursor**

EMRS spring meeting

Strasbourg 24. May - 28. May 2004

Oral

*Lehmann, C.; Calvet, W.; Pettenkofer, C.***Metal organic molecular beam epitaxy (MOMBE) of CuInS₂ on Si(111)**

DPG-Frühjahrstagung (AKF)

Regensburg 08. Mar - 12. Mar 2004

Invited Talk

*Pettenkofer, C.***Genesys, Photovoltaics**

Genesys WorkshopFZJ

Jülich 15. Apr - 15. Apr 2004

Oral

*Schmidt, P.-M.; Winter, B.; Weber, R.; Freyer, W.; Hertel, I.V.; Pettenkofer, C.; Faubel, M.***The triiodide equilibrium in water investigated by photoemission**

DPG-Frühjahrstagung (AKF)

Regensburg 08. Mar - 12. Mar 2004

SE6.Interfaces

Poster

*Andres, S.; Calvet, W.; Plake, T.; Pettenkofer, C.***Indium- und Indiumselenid-terminierte Si(111)-Oberflächen als neuartige Pufferschichten in der Heteroepitaxie**

DPG-Frühjahrstagung (AKF)

Regensburg 08. Mar - 12. Mar 2004

Oral

*Wolf, H.; Meier, U.; Plake, T.; Pettenkofer, C.***Einfluss photoinduzierter Effekte auf die Photoemissionsspektren gesputterter ZnO-Schichten auf Si(111)**

DPG-Frühjahrstagung (AKF)

Regensburg 08. Mar - 12. Mar 2004

Invited Lectures

SF - Structural Research

SF - BENSC

SF1.BENSC

Mezei, F.

Multi-MW Spallation Sources: A Quantum Leap in Neutron Research Opportunities

Seminar

Universität Braunschweig, 22.06.2004

Steitz, R.

Neutron reflectivity and soft condensed matter

Institutsseminar, Lehrstuhl für Angewandte Physikalische Chemie: Prof. Dr. M. Grunze, Heidelberg, 02.12.2004

Steitz, R.

New aspects of water depletion and nanobubbles at extended solid/liquid interfaces

GemSem, Stranski-Laboratorium, TU Berlin

Berlin, 30.06.2004

Treimer, W.

Was ich schon immer über Computertomographie wissen wollte

Vortrag an Fritz Reuter Oberschule

Hohenschönhausen,, 17.03.2004

Treimer, W.

Alte und neue bildgebende Signale in der Computertomography

Seminarvortrag

Universität Wien, 09.05.2004

Treimer, W., Strobl, M., Hilger, A., Kardjilov, N.

Neue Wege in der Neutronentomography

Seminarvortrag

TUM Garching, 10.02.2004

SF - ISL

ISL.User

Strub, E., Bohne, W., Röhrich, J.

ERDA am HMI - Auf dem Weg zur "Routineanalytik" für dünne Schichten

Fachgruppenseminar der Fachgruppe I.4 der BAM

Berlin, 16.11.2004

SF - BESSY

SE6.BESSY

Pettenkofer, C.

Zur Photoemission an Ag(111) Inseln - einige recht merkwürdige Beobachtungen

Oberflächenseminar, Humboldt Universität

Humboldt Universität Berlin, 06.12.2004

Pettenkofer, C.

Energy Converting Interfaces

Chalmers University Göteborg

Göteborg, S, 28.05.2004

Pettenkofer, C.

Faculty opponent introduction to PES study of layered materials and alkali metal intercalation

Examination at Chalmers University Gotenborg, S

Göteborg, S, 29.05.2004

SF3.BESSY

Haibel, A.

Synchrotron-Tomographie und 3D-Bildanalyse an keramischen und metallischen Schäumen

Seminarveranstaltung der Arbeitsgruppe Prof. Schubert

Berlin, 22.11.2004

SF4.BESSY

Darowski, N.

Zerstörungsfreie Materialcharakterisierung mittels Synchrotronstrahlung

Kolloquium des Institutes für Festkörperphysik der Friedrich-Schiller-Universität Jena

Jena, 10.12.2004

SF1 - Methods and Instruments**SF1.Dynamics**

Lieutenant, Klaus;

Protein dynamics investigated by EPR and neutron scattering experiments

Physik-Seminar, Universität Osnabrück

Osnabrück, Germany, 04.05.2004

Mezei, F.

The European Spallation Source Project

Seminar

Research Institute for Nuclear Physics, Debrecen, Ungarn, 24.05.2004

SF1.Methods

Krist, T.

Neutron optics from Hahn-Meitner Institute Berlin

Seminar talk

Kyoto University, Research Reactor Insti, 08.01.2004

Krist, T.

Neutronenoptische Bauelemente vom HMI Berlin

Vortrag

Institut für Gerätebau, Berlin Adlershof, 05.11.2004

SF1.Spallation

Hilscher, Dietrich;

Transmutation - eine Option für die Zukunft?

Festkolloquium zur Verabschiedung von Prof. Dr. D. Filges, IKP-FZJ

Jülich, Germany, 13.02.2004

Lieutenant, Klaus;

Introduction to VITESS

VITESS at KAERI, Korean Atomic Energy Research Institute (KAERI)

Daejon, Korea, 31.05.2004

Lieutenant, Klaus;

Simulation of guides using VITESS

VITESS at KAERI, Korean Atomic Energy Research Institute (KAERI)

Daejon, Korea, 01.06.2004

Lieutenant, Klaus;

Simulation of Reflectometers using VITESS

VITESS at KAERI, Korean Atomic Energy Research Institute (KAERI)

Daejon, Korea, 04.06.2004

Lieutenant, Klaus; Dr. Geza Zsigmond

Simulation of SANS instruments using VITESS

VITESS at KAERI, Korean Atomic Energy Research Institute (KAERI)

Daejon, Korea, 30.06.2004

Manoshin, Sergey; Drabkin, G.; Mezei, F.

Simulation of double Drabkin 2-PI resonators

Joint VITESS and McStas Training Course & Workshop, ISIS Facility

Abingdon, United Kingdom, 05.02.2004

SF3 - Materials**SF3.Light weight mat.**

Banhart, J.

Schäume aus Metall - Herstellung, Eigenschaften, Anwendungen

Kolloquium WTM

Erlangen, 13.01.2004

Banhart, J.

Metallschäume

Kolloquium der Staatlichen Materialprüfungsanstalt

Darmstadt, 08.07.2004

SF3.Microstructure

Abromeit, C.

Heterogeneous phase changes in alloys induced by a-thermal transport processes

TROISIÈME CYCLE DE LA PHYSIQUE EN SUISSE ROMANDE

EPFL Lausanne (Switzerland), 11.03.2004

Abromeit, C.

On the nature of the decomposition of Fe-Ni Invar alloys under and without irradiation

Colloquium, Kharkov Institute of Physics & Technology

Kharkov, Ukraine, 15.09.2004

Abromeit, C.

Decomposition in Fe-Ni Invar alloys: an unsolved problem

Seminar

Kyushu University, Japan, 26.11.2004

Abromeit, C.

Dynamical phase diagram

Seminar

KIPT Kharkov, Ukraine, 14.09.2004

Leitner, H., Clemens, H., Jamnig, B., Höring, S., Wanderka, N., Banhart, J., Staron, P.

Untersuchungen an Maragingstahl mittels 3D-Atomsonde und SANS

50. Metallkundekolloquium

Lech (A), 15.04.2004

SF3.Nanostructures

Wiedenmann, A.

Magnetic Nanostructures as probed by Polarized Small Angle Neutron Scattering

General seminar at ILL (College 9)

Grenoble, France, 03.03.2004

Wiedenmann, A.

Time resolved SANSPOL on Ferrofluids

20.10.2004

Wiedenmann, A.; May, R.; Dewhurst, Ch.

Polarisation option on D22

ILL General seminar (College 1)

Grenoble, France, 13.09.2004

SF3.Others

Rack, Alexander; Nico Eschricht

Charakterisierung von Metallschäumen mittels Synchrotron-Tomographie und 3D-Bildanalyse

Kooperation HMI-ITWM, ITWM Fraunhofer

Kaiserlautern, Germany, 21.06.2004

Vierke, J.

Empfindlichkeitseinstellung und Echohöhenbewertung von Ultraschallprüfköpfen mit schmalen rechteckigen Schwingern

außerordentlicher Vortrag am Institut für metallische Werkstoffe der TU-Berlin

Berlin, 09.12.2004

SF4 - Structure and Dynamics

SF4.Dynamics

Mahnke, H.-E.

From the photo effect to the analysis of nanostructures - X-ray absorption spectroscopy

Seminar, Materials Science Department, State University of New York at Stony Brook

Stony Brook, NY, USA, 27.07.2004

SF5 - Theory

SF5.Biosystems

Falcke, M.

Muster im Lebendigen - Selbstorganisation in Organismen

Auricher Wissenschaftstage

Aurich, 25.11.2004

SF5.Soft Matter

Kroy, Klaus;

Nichtgleichgewichts-Dynamik weicher Materie

Seminar, Universität Leipzig

Leipzig, Germany, 10.02.2004

SF7 - Measurement instrumentation

SF7.ERDA

Von Oertzen, Wolfram

Nuclear Clusters and Covalently bound Nuclear Molecules

Nuclear Clusters and Covalently bound Nuclear Molecules

Paris, Universite de Paris Süd,Orsay, 15.03.2004

SE - Solar Energy Research

SE1 - Silicon photovoltaics

SE1.Cells

Böhme, C.

The Electrical Detection of Spin Coherence - Applications for Semiconductor Spectroscopy and Implications for Quantum Information Concepts

Kolloquium der Universität Stuttgart
Stuttgart, Germany, 06.12.2004

Böhme, C.

The Electrical Detection of Spin Coherence - a Potential Key to the Readout of Semiconductor Based Spin Qubits

Seminar der Universität Dortmund,
Dortmund, Germany, 30.11.2004

Böhme, C.

The Electrical Detection of Spin Coherence - One Approach to an Ultrasensitive Spin Measurement

National High Magnetic Field Laboratory Tallahassee
Tallahassee, Florida, USA, 09.11.2004

Böhme, C.:

Wie man mit Echos im Probenstrom zu besseren Halbleitern gelangen kann

Industrie- und Handelskammer Nordhessen
Marburg, Germany, 17.06.2004

Fuhs, W.

Scientific Challenges in Photovoltaics

North Carolina State University, Raleigh
Raleigh, North Carolina, USA, 30.11.2004

Fuhs, W.

Polycrystalline Silicon Thin-Film Solar Cells

National Renewable Energy Laboratory
Golden, Colorado, USA, 23.11.2004

Fuhs, W.

Kann man mit weniger mehr erreichen?

Kolloquium am ISFH
Hamel, Germany, 27.09.2004

Lips, K.

Magnetic Fingerprints in the Photocurrent of Silicon Solar Cells

Ornstein Colloquium, Universität Utrecht
Utrecht, Netherland, 17.12.2004

Nickel, N. H.

Properties of Hydrogen in Semiconductors

Seminarvortrag an Ecole Polytechnique Palaiseau
Paris, France, 11.12.2004

Nickel, N. H.

Electrical and Optical Properties of Laser Crystallized Poly-Si Films

Seminarvortrag, Université de Rennes I
Rennes, France, 13.12.2004

SE1.Hetero

Angermann, H.

Electronic Properties of Hydrogen-Terminated Silicon Surfaces During Wet-Chemical Preparation and Storage in Clean-Room Air

Seminar der Technischen Universität Chemnitz,
Chemnitz, Germany, 01.12.2004

Korte, L.

Determination of the Gap State Density Distribution in Silicon Based Heterostructures by UV-Photoelectron Spectroscopy

PV-Kolloquium der Universität Leipzig
Leipzig, Germany, 29.11.2004

Rappich, J.

Electronic Surface Conditioning of Silicon Electrochemical Organic Layer Deposition

Werkstoffwiss. Kolloquium der Universität Erlangen-Nürnberg
Erlangen, Germany, 09.11.2004

Schmidt, M.; Korte, L.; Kliefoth, K.; Schöpke, A.; Stangl, R.; Laades, A.; Brendel, K.; Scherff, M.

Basic Electronic Properties of TCO/a-Si:H/c-Si Heterostructure-Solar-Cells

3rd aSi-Net Workshop & 10th Euroregional Workshop on
Bratislava, Slovak Republic, 25.02.2004

SE2 - Heterogeneous material systems**SE2.Analytics**

Bär, M.

Cd²⁺/NH₃-treatment an CGSe-Absorbern; ILGAR-SnO₂-Minimodule

CISSY-Projekttreffen bei Shell Solar
Munic, Germany, 02.07.2004

Bär, M.; Lehmann, S.

DH-induzierte chemische Veränderungen am Rückkontakt

CISSY-Projekttreffen
Berlin, Germany, 06.12.2004

Bär, Marcus;

Cu(In,Ga)(S,Se)₂ solar cells with ILGAR-ZnO: Surface modification and window extension layer concept

Kolloquium, Energy Research Centre of the Netherlands
Petten, Netherlands, 25.04.2004

Bär, Marcus;

Cu(In,Ga)(S,Se)₂ solar cells with ILGAR-ZnO: Surface modification and window extension layer concept

Kolloquium, Universität Würzburg
Würzburg, Germany, 25.06.2004

Fischer, Ch.-H.; Klaer, J.; Sokoll, S.

XES-Untersuchungen an unverkapselten CIS-Modulstrukturen vor und nach Damp-Heat Test

CISSY-Projekttreffen bei Shell Solar
Munic, Germany, 02.07.2004

Glatzel, Th.

Nanoscale Characterisation with UHV - Kelvin Probe Force Microscopy

Dep. of Electrical Engineering, University of Tel Aviv (Israel)
Tel Aviv, Israel, 09.03.2004

Glatzel, Th.

Nanoscale Characterisation with UHV - Kelvin Probe Force Microscopy

National Center of Competence in Research

Basel, Switzerland, 03.06.2004

Grimm, A.

Herstellung und Charakterisierung von RF-gesputterten (Zn,Mg)O-Schichten als alternativer Puffer zu CdS/i-ZnO

CISSY-Projekttagung

Berlin, Germany, 06.12.2004

Kötschau, I.

Status und Aussichten der orts aufgelösten Spektroskopie; Initiales Schichtwachstum von CdS auf CGSe und ZSW-CIGSe

CISSY-Projekttagung bei Shell Solar

Munic, Germany, 02.07.2004

Kötschau, I.

Quantitative Auswertung von XES-Spektren polykristalliner Dünnschichten

CISSY-Projekttagung

Berlin, Germany, 06.12.2004

Kötschau, I.

Growth of CdS layers on CuGaSe₂ and Cu(In,Ga)Se₂

Projekttagung Hochspannungsnetz

Berlin, Germany, 03.12.2004

Kötschau, I.

Quantitative Auswertung von XES-Spektren von polykristallinen Dünnschichten

CISSY-Projekttagung

Berlin, Germany, 06.12.2004

Laueremann, I.

PES und XES-Untersuchungen von sputter-ZnO/CIGSSe und (Zn,Mg)O/CIGSSe

CISSY-Projekttagung bei Shell Solar

Munic, Germany, 02.07.2004

Laueremann, I.

Valenzbandmessungen an ZnSe/epi-CuInS₂

CISSY-Projekttagung

Berlin, Germany, 06.12.2004

Laueremann, I.

Nachweis von Sulfid als Oxidationsprodukt auf CIGSSe-Absorbern und an Zn(Mg)O/CIGSSe-Grenzflächen mit XES

CISSY-Projekttagung

Berlin, Germany, 06.12.2004

Pistor, P.

"Quantitative" Röntgen-Emissionsspektroskopie an Schichtsystemen von Dünnschicht-Solarzell-Materialien

CISSY-Projekttagung bei Shell Solar

Munic, Germany, 02.07.2004

Reichardt, J.; Bär, M.

ILGAR-Zn(O,OH) Materialsystem - Komposition vs. VBM

CISSY-Projekttagung

Berlin, Germany, 06.12.2004

Sadewasser, S.

Kelvin Probe Force Microscopy

Universität Stuttgart (Germany)

Stuttgart, Germany, 19.01.2004

SE2.Chemistry

Allsop, N.

In2S3 buffer deposited by Spray-ILGAR

CISSY-Projekttreffen

Berlin, Germany, 06.12.2004

Fischer, Ch.-H.; Allsop, N.; Schönmann, A.

Ein neuer Cd-freier Spray-ILGAR Puffer mit resultierenden Wirkungsgraden nahe 14 %

Shell Solar, München

Munic, Germany, 02.07.2004

Muffler, Hans-Jürgen;

Functional ILGAR thin layers - applications and potential

Projekt-Meeting, ECN

Petten, Netherlands, 25.03.2004

Muffler, Hans-Jürgen;

Dünnschichtszellzellen - Die wichtige Rolle der Grenz- und Oberflächenkonditionierung

Projektplanung, BASF AG

Ludwigshafen, Germany, 04.10.2004

SE2.Concepts

Dittrich, Th.

Solis state nanostructured solar cells

Seminarvortrag bei Prof. A. Zaban an der Bar Ilan University (Israel)

Israel, 11.10.2004

Dittrich, Th.

Nanotechnology for photovoltaic applications

Seminar an der Universität Jaume I (Spanien) (eingeladen von Prof. Bisquert)

Spain, 09.03.2004

Dittrich, Th.

Photovoltage phenomena in pamoscaled Materials

Vortrag auf der Fest-Tagung anlässlich des 60. Geburtstages von Prof. Y. Shapira an der Tel Aviv University (Israel)

Tel Aviv, Israel, 10.10.2004

Harneit, W.

N@C₆₀ Fullerenes - Spin Molecules and their Applications

Solid-state physics seminar

Zurich, Switzerland, 28.01.2004

Harneit, W.

N@C₆₀ - spin molecules and their applications

CNM seminar

Eindhoven, Netherlands, 04.02.2004

Naydenov, B.

Designer molecules for quantum computation

Seminar Hulliger group

Berne, Switzerland, 19.10.2004

SE2.Semico

Lux-Steiner, Martha Ch.;

Innovative Solarzellenkonzepte

Statusseminar Photovoltaik, Bundesumweltministerium

Bonn, Germany, 25.03.2004

Lux-Steiner, Martha Ch.;

Photovoltaik auf nanoskopischer Ebene

nanomat-Tagung, Wissenschaftszentrum Karlsruhe
Karlsruhe, Germany, 01.04.2004

Lux-Steiner, Martha Ch.;

Photovoltaik

Physikalisches Kolloquium, Ruhr-Universität Bochum
Bochum, Germany, 03.05.2004

Siebentritt, Susanne;

Defects and Transport in chalcopyrites

Conference on Photoactive Materials,
Kariega, South Afrika, 25.02.2004

Siebentritt, Susanne;

Doping and Transport in CuGaSe₂ and CuInSe₂

Colloquium of the Center of Excellence on Photonic and Materials for Prospective Application,
CEPHOMA
Warsawa, Poland, 16.01.2004

Siebentritt, Susanne;

Halbleiterdefekte und Solarzellen

Colloquium Angewandte Physik, Otto-von.Guericke-Universität Magdeburg
Magdeburg, Germany, 12.01.2004

SE3 - Technology

SE3.Baseline

Scheer, Roland;

Chalcogenide based Semiconductors for 2nd Generation Photovoltaics

Invited Lecture, University of Barcelona
Barcelona, Spain, 22.06.2004

SE3.Control

Scheer, Roland

Chalcopyrite film growth studies by diffuse light scattering

Invited lecture:Uppsala University
Uppsala,, 11.03.2004

SE4 - Dynamics of interfacial reactions

SE4.Dynamics

Ernstorfer, R.;

The Influence of Anchor and Bridge Groups on Ultrafast Heterogeneous Electron Transfer

Sfb 450 Nachmittage Sommersemester 2004
Uni Potsdam, 13.07.2004

Ernstorfer, R.;

The role of molecular bridge-anchor groups in interfacial ultrafast electron transfer

BMO BioMolecular Optik,
LMU München, 22.10.2004

Willig, Frank;

Heterogeneous electron transfer in ultra-high-vacuum probed with transient absorption and two-photon-photoemission

International Conference, Bhabha Atomic Research Centre, Mumbai

Mumbai, India, 11.01.2004

Willig, Frank;

Surface reconstructions and hot electron dynamics of MOCVD-grown InP (100)

Kolloquium, Indian Institute of Technology Kharagpur, India

Kharagpur, India, 16.01.2004

Willig, Frank;

Surface reconstructions and hot electron dynamics of MOCVD-grown InP (100)

Kolloquium, Institute of Physics, Bhubaneswar

Bhubaneswar, India, 23.01.2004

Willig, Frank;

Surface reconstructions and hot electron dynamics of MOCVD-grown InP (100)

Kolloquium, Tata Institute of Fundamental Research

Mumbai, India, 13.01.2004

SE5 - Solar energy

SE5.Energetics

Bogdanoff, Peter;

Entwicklung Platin freier Katalysatoren für die Elektroreduktion von Sauerstoff in sauren Medien

FEE - Kolloquium, Industriedenkmal Heizkraftwerk Moabit-Berlin

Berlin, Germany, 12.01.2004

Fiechter, Sebastian;

Struktur und Wirkungsweise neuartiger Elektrokatalysatoren in Brennstoffzellen

Habilitationskolloquium, TU Berlin, Fakultät VI

10587 Berlin, Germany, 17.06.2004

Tomm, Y.

Kristallzüchtung von Materialien für die Photovoltaik

TU Chemnitz, Institut für Physik, 02.12.2004

Tributsch, Helmut;

Some electrochemical challenges in sustainable energy research.

Italian-German Workshop of Electrochemistry, Università di Bologna, Prof. Scrosati

Bologna, Italy, 20.05.2004

SE6 - Electronic structure of semiconductor interfaces

SE6.BESSY

Pettenkofer, C.

Zur Photoemission an Ag(111) Inseln - einige recht merkwürdige Beobachtungen

Oberflächenseminar, Humboldt Universität

Humboldt Universität Berlin, 06.12.2004

Pettenkofer, C.

Energy Converting Interfaces

Chalmers University Göteborg

Göteborg, S, 28.05.2004

Pettenkofer, C.

Faculty opponent introduction to PES study of layered materials and alkali metal intercalation

Examination at Chalmers University Gotenborg, S

Göteborg, S, 29.05.2004

I - Central Scientific-Technical Infrastructure

DN - Zentrale DV-Systeme und Netze

DN

Mädler, Fritz;

KI-Methoden in der naturwissenschaftlichen Forschungspraxis

Perspektiven der Kognitionswissenschaft, Universität Osnabrück

Osnabrück, Germany, 30.09.2004

Patents and Patent Applications

Patents

Dep.	HGF-Programme	Inventor	Title	Date of filing	Date of grant
SE2	Energy	Mertesacker, B.; Pietzak, B.; Waiblinger, M.; Weidinger, A.	Elektronenemitter und Verfahren zu dessen Herstellung DE: 1157402 FR: 1157402 GB: 1157402	25.02.00	06.05.04
SE2	Energy	Chen, J.; Könenkamp, R.	Vertikale Transistoranordnung mit einem flexiblen, aus Kunststofffolien bestehenden Substrat und Verfahren zu deren Herstellung DE: 10142913	27.08.01	18.03.04
SE2	Energy	Fuertes-Marrôn, D.; Lux-Steiner, M.C.; Meeder, A.; Schedel-Niedrig, T.; Würz, R.	Schichtanordnung aus heteroverbundenen Halbleiterschichten mit zumindest einer zwischengelagerten Trennschicht und Verfahren zu ihrer Herstellung, sowie ein Verfahren zur Herstellung einer Solarzelle DE: 10247735	09.10.02	15.04.04
SE3	Energy	Neisser, A.; Scheer, R.	Verfahren zur Herstellung einer Chalkogenid-Halbleiterschicht mit optischer in-situ-Prozesskontrolle und Vorrichtung zur Verfahrensdurchführung DE: 10256909	30.11.02	29.07.04
SE5	Energy	Rojas-Chapana, J.; Tributsch, H.	Verfahren zur mikrobiellen Laugung von sulfidhaltigen Materialien und Verwendung von schwefelhaltigen Aminosäuren bei der mikrobiellen Laugung US: 6767522	23.07.99	27.07.04
SE5	Energy	Berenguier, B.; Lewerenz, H.	Elektrochemisches Ätzverfahren zum selektiven Entfernen von Fremdphasen an der Oberfläche eines sulfidhaltigen Chalkopyrithalbleiters DE: 10344315	21.09.03	09.12.04
SF1	Structure of matter	Clemens, D.; Mezei, F.; Mokrani, L.	Neutronenoptisches Bauelement für die Neutronenkleinwinkelstreu-Messtechnik DE: 10239691	25.08.02	09.06.04

Patent applications

Dep.	HGF-Programme	Inventor	Title	Date of filing
SE1	Energy	Kytin, V.; Kytina, I.; Lips, K.	Verfahren zur Herstellung eines Feststoff-Polymer-Lasermediums DE: 102004038307.3	04.08.04 Prior application
SE2	Energy	Hofsäss, H.; Krauser, J.; Mertesacker, B.; Weidinger, A.; Zollondz, J.	Quantenpunkt aus elektrisch leitendem Kohlenstoff, Verfahren zur Herstellung und Anwendung WO: PCT/DE2004/000231	05.02.04
SE2	Energy	Fostiropoulos, K.; Johnev, B.; Vogel, M.	Verfahren zur Passivierung der anorganischen Elektrode einer organischen Solarzelle und organische Solarzelle WO: PCT/DE2004/000232	05.02.04
SE2	Energy	Glatzel, T.; Lux-Steiner, M.C.; Sadewasser, S.	Elektrochemisches Verfahren zur direkten nanostrukturierbaren Materialabscheidung auf einem Substrat und mit dem Verfahren hergestelltes Halbleiterbauelement WO: PCT/DE2004/000748	07.04.04
SE2	Energy	Chen, J.; Könenkamp, R.	Vertikaler Nano-Transistor, Verfahren zu seiner Herstellung und Speicheranordnung WO: PCT/DE2004/001839	16.08.04
SE2	Energy	Chen, J.; Lux-Steiner, M.C.	Vertikaler Nano-Transistor, Verfahren zu seiner Herstellung und Speicheranordnung WO: PCT/DE2004/001838	16.08.04
SE2	Energy	Bär, M.; Fischer, C.; Hilgendorff, M.; Lauermann, I.; Lux-Steiner, M.C.; Muffler, H.; Rahne, K.	Beschichtungsverfahren zur Deposition und Fixierung von Partikeln auf einer Substratoberfläche und Solarzellen mit funktionellem Schichtenaufbau EP: 04090308.0	06.08.04
SE2	Energy	Ennaoui, A.; Kropp, T.; Lux-Steiner, M.C.	Verfahren zum Aufbringen einer Zinksulfid-Pufferschicht auf ein Halbleitersubstrat mittels chemischer Badabscheidung, insbesondere auf die Absorberschicht einer Chalkopyrit-Dünnschicht-Solarzelle DE: 102004040546.8-33	18.08.04 Prior application

Dep.	HGF-Programme	Inventor	Title	Date of filing
SE2, SE5	Energy	Dittrich, T.; Dloczik, L.; Lux-Steiner, M.C.; Tomm, Y.	Verfahren zur Herstellung von transparentem p-leitendem CuAlO ₂ WO: PCT/DE2004/001069	18.05.04
SE3	Energy	Pietzker, C.; Scheer, R.	Verfahren zur Herstellung einer Chalkogenid-Halbleiterschicht des Typs ABC ₂ mit optischer Prozesskontrolle HK: 04105155.6	14.07.04
SE3	Energy	Scheer, R.	Verfahren und Vorrichtung zur Diagnose und Qualitätssicherung von halbleitenden Dünnschichtsolarmodulen DE: 102004046324.7-33	19.09.04 Prior application
SE4	Energy	Ernstorfer, R.; Hannappel, T.; Kubala, S.; Willig, F.	Vorrichtung und Verfahren zur nasschemischen Präparation von hochreinen Festkörperoberflächen DE: 102004014430.3	19.03.04 Prior application
SE5	Energy	Küppers, U.; Rojas- Chapana, J.; Tributsch, H.	Transparentes Versiegelungsmaterial für lichtbestrahlte, photoelektronisch aktive Oberflächen, Verfahren zur Herstellung und Anwendung EP: 04090201.7-1235	18.05.04
SE5	Energy	Tributsch, H.	Photovoltaiksystem für die direkte Wasserstoffherzeugung und -sammlung WO: PCT/DE2004/001542	13.07.04
SE5	Energy	Berenguier, B.; Lewerenz, H.	Elektrochemisches Ätzverfahren zum selektiven Entfernen von Fremdphasen an der Oberfläche eines sulfidhaltigen Chalkopyrithalbleiters WO: PCT/DE2004/001976	05.09.04
SE5	Energy	Lewerenz, H.	Photovoltaische Solarzelle mit metallischen Nanoemittern und Verfahren zur Herstellung WO: PCT/DE2004/002228	05.10.04
SE5	Energy	Fiechter, S.; Maruthamuthu, P.; Tributsch, H.	Photoelektrochemische Solarzelle mit einem Detergens auf Lipid- basis WO: PCT/DE2004/002505	10.11.04
SE5	Energy	Dorbandt, I.; Fiechter, S.; Leem, H.; Rojas- Chapana, J.; Tributsch, H.	Niedertemperatur-Brennstoffzelle mit einer Hybridmembran und Verfahren zur Herstellung DE: 102004032671.1-45	02.07.04 Prior application

Dep.	HGF-Programme	Inventor	Title	Date of filing
SE5, SF4	Energy	Fink, D.; Küppers, U.; Rojas-Chapana, J.; Tributsch, H.	Flexible, atmungsaktive Polymerfolie und Verfahren zu deren Herstellung WO: PCT/DE2004/000091	15.01.04
SF1	Structure of matter	Fiechter, S.; Mecklenburg, A.; Nabein, H.; Schneider, R.P.	Verfahren und Anordnung zur Kristallzüchtung aus metallischen Schmelzen oder Schmelzlösungen DE: 102004018664.2-43	13.04.04 Prior application
SF1	Structure of matter	Cussen, L.; Krist, T.; Mezei, F.	Strahlungsoptisches Bauelement DE: 102004031934.0-54	27.06.04 Prior application
SF4	Structure of matter	Fahrner, W.; Fink, D.; Hoppe, K.; Petrov, A.; Sandkühler, U.; Stanski, B.; Ulyashin, A.	Parametrierte Halbleiterverbundstruktur mit integrierten Dotierungskanälen, Verfahren zur Herstellung und Anwendungen davon WO: PCT/DE2004/001070	18.05.04
SF4	Structure of matter	Fink, D.	Sensor mit einem Feld aus Nanoporen und Verfahren zur Herstellung DE: 102004040239.6-52	13.08.04 Prior application
SF4	Structure of matter	Fink, D.	Flexibler Nanotransistor und Verfahren zur Herstellung DE: 102004040238.8-33	13.08.04 Prior application
SF4	Structure of matter	Fink, D.	Elektronisches Nanobaelement mit einer Tunnelstruktur und Verfahren zur Herstellung DE: 102004058765.5	01.12.04 Prior application

Academic Education

Lectures, Courses, ...

Dep.	Lecturer	Topic	Course	University	Hrs/week
Summer Term 2004					
SF	Steitz, R.; Lang (FZ Jülich), P.	0235 L 083: Streumethoden: Grundlage und Anwendung auf Polymer u. Kolloidlösungen	lecture	TU-Berlin	2
SF1	Mezei, F.	Doktorandenseminar	seminar	TU-Berlin	2
SF1	Treimer, W.	Bildgebende Verfahren in der Medizin	lecture	TFH-Berlin	4
SF1	Treimer, W.	Atom- und Kernphysik	lecture	TFH-Berlin	4
SF1	Treimer, W.	Bildgebende Verfahren in der Medizin	tutorial	TFH-Berlin	2
SF3	Abromeit, C.	Heterogeneous phase changes in alloys induced by a-thermal transport processes	lecture	EPFL-IPMC Lausanne	3
SF3	Banhart, J.; Schiffmann, R.	Technologie der Aluminiumwerkstoffe	lecture	TU-Berlin	2
SF4	Schiwietz, G.	Kurzzeitdynamik des Festkörpers	seminar	TU-Berlin	2
SF4	Schiwietz, G.	Einführung in das physikalische Grundpraktikum 3	lecture	TU-Berlin	2
SF5	Falcke, M.	Exp. Physik III (Einf. in die Quantenphysik)	lecture	FU-Berlin	4
SF5	Frey, E.	Theoretische Physik V (Quantentheorie II)	lecture	FU-Berlin	4
SF5	Frey, E.; Santos, J.	Theoretische Physik V (Quantentheorie II)	tutorial	FU-Berlin	2
SF6	Kyriakopoulos, A.	Biochemie von Spurenelementen	lecture	FU-Berlin	2
SF6	Kyriakopoulos, A.; Behne, D.	Doktorandenseminar: Ausgewählte Gebiete der Spurenelementforschung	seminar	FU-Berlin	2
SF6	Kyriakopoulos, A.; Behne, D.	Biochemie von Spurenelementen	lab course	FU-Berlin	5
SE1	Gall, S.	Grundlagen der Bauelemente für die photovoltaische Energiewandlung	lecture	TU-Berlin	2
SE1	Nickel, N.; Richter, W.; Esser, N.	Festkörperphysik I	lecture	TU-Berlin	4
SE2	Ennaoui, A.	Quanten Mechanik II	lecture	University Mohamed V, Morocco	4
SE2	Fischer, C.; Lauermaun, I.	Instrumentelle Analytik, Analytik anorganischer Dünnschichtsysteme	lab course	FU-Berlin	2
SE2	Lux-Steiner, M.C.	Lehrseminar A (Festkörperspektroskopie)	seminar	FU-Berlin	2
SE3	Scheer, R.	Physik erneuerbarer Energien	lecture	Universität Potsdam	2

Dep.	Lecturer	Topic	Course	University	Hrs/week
SE4	Hannappel, T.	Exp. Physik II (E-Dynamik u. Optik) Physik II	lecture	FU-Berlin	4
SE5	Lewerenz, H.J.	Oberflächenphysikalische Untersuchungen an energieumwandelnden Halbleiterstrukturen	seminar	TU-Berlin	2
SE5	Lewerenz, H.J.	Solarzellen	lecture	Cottbus	2
SE5	Tributsch, H.	Phys. Chem. II für Studierende der Biochemie	lecture	FU-Berlin	2
I	Nielsen, U.	Rechnergeführte elektronische Prozessleittechnik	lecture	TU-Berlin	2

Winter Term 2004/2005

Winter Term 2004/2005					
SF	Steitz, R.; Findeneegg, G.; Hellweg, T.	0235 L 087: Aktuelle Themen der Grenzflächen- und Kolloidwissenschaft	lecture	TU-Berlin	3
SF1	Mezei, F.	25th Tutorial on Neutron Scattering	lecture	TU-Berlin	2
SF1	Mezei, F.	25th Tutorial on Neutron Scattering	tutorial	TU-Berlin	1
SF1	Mezei, F.	Doktorandenseminar	seminar	TU-Berlin	2
SF1	Treimer, W.	Grundlagen zur Röntgen- und Neutronencomputertomographie	lecture	TU-Berlin	3
SF1	Treimer, W.	Bildgebende Verfahren	tutorial	TFH-Berlin	2
SF1	Treimer, W.	Mathematische Verfahren in der Bildgebung	lecture	TFH-Berlin	4
SF3	Banhart, J.; Schiffmann, R.	Technologie der Aluminiumwerkstoffe	lecture	TU-Berlin	4
SF4	Schiwietz, G.	Kurzzeiddynamik des Festkörpers	seminar	TU-Berlin	2
SF4	Schiwietz, G.	Einführung in das physikalische Grundpraktikum 3	lecture	TU-Berlin	2
SF5	Falcke, M.	Theorie stoch. Prozesse	lecture	Universität Magdeburg	2
SF5	Falcke, M.	Theorie stoch. Prozesse	tutorial	Universität Magdeburg	1
SF6	Kyriakopoulos, A.; Behne, D.	Biochemie von Spurenelementen	lab course	FU-Berlin	5
SF6	Kyriakopoulos, A.	Biochemie von Spurenelementen	lecture	FU-Berlin	2
SF6	Kyriakopoulos, A.; Behne, D.	Doktorandenseminar: Ausgewählte Gebiete der Spurenelementforschung	seminar	FU-Berlin	2
SF7	von Oertzen, W.; Kokalova, T.; Hotzel, A.	Einführung in die Kern- und Teilchenphysik	lecture	FU-Berlin	4
SF7	von Oertzen, W.; Kokalova, T.; Hotzel, A.	Einführung in die Kern- und Teilchenphysik	tutorial	FU-Berlin	2
SE1	Nickel, N.; Richter, W.; Esser, N.	Festkörperphysik II	lecture	TU-Berlin	4
SE2	Fischer, C.	Quantitative analytische Chemie	lecture	FU-Berlin	2

Dep.	Lecturer	Topic	Course	University	Hrs/week
SE2	Fischer, C.; Lauermann, I.	Instrumentelle Analytik, Analytik anorganischer Dünnschichtsysteme	lab course	FU-Berlin	2
SE2	Lux-Steiner, M.C.; der Abteilung SE2, u.w.M.	Lehrseminar B "Erneuerbare Energien"	seminar	FU-Berlin	2
SE2	Siebentritt, S.	Halbleiterphysik	lecture	FU-Berlin	4
SE2	Siebentritt, S.	Übungen Halbleiterphysik	tutorial	FU-Berlin	2
SE3	Scheer, R.	Physik photovoltaischer Solarzellen	lecture	Universität Potsdam	2
SE5	Fiechter, S.	Thermochemische Charakterisierung von Übergangsmetallchalkogeniden	lab course	TU-Berlin	1
SE5	Fiechter, S.	Grundlagen der Materialpräparation und Charakterisierung sulfidischer Halbleiter	lecture	TU-Berlin	2
SE5	Lewerenz, H.J.; Jungblut, H.; Wilhelm, T.	Photovoltaische Solarzellen	lecture	TU-Berlin	2
SE5	Lewerenz, H.J.	Introduction to Materials Science and Engineering	lecture	North Carolina State University, USA	3
SE5	Tomm, Y.	Herstellung von Übergangsmetallchalkogeniden	lab course	FU-Berlin	4
SE5	Tributsch, H.	Phys. Chem. II für Studierende der Biochemie	lecture	FU-Berlin	2
I	Nielsen, U.	Rechnergeführte elektronische Prozessleittechnik	lecture	TU-Berlin	2

Exams

Dep.	Author	Title	University	Date
Habilitation				
SF4	Schumacher, G.	Crystallization in Thin Amorphous Foils and Films	TU-Berlin	03/04
SE5	Fiechter, S.	Halbleitende Metallsulfide mit Pyrit-, Molybdänit- und Chalkopyritstruktur: Materialentwicklung und Aspekte einer Nutzung in Photovoltaik und Elektrokatalyse	TU-Berlin	06/04
Ph. D.				
SF1	Russina, O.	Die Untersuchung der mikroskopischen Dynamik beim Glasübergang	TU-Berlin	02/04
SF2	Liu, Y.	Polarized Neutron Reflectometry Study on thin Fe Films prepared on V(100)	TU-Berlin	04/04
SF3	Davydov, E.	Entmischungs- und Kristallisationsverhalten des metallischen Massivglases Pd40Cu30Ni10P20	TU-Berlin	11/04
SF3	Kammel, M.	Untersuchung von Nanostrukturen magnetischer Kolloide mit Kleinwinkelstreuung	TU-Berlin	11/04
SF4	Petrov, A.	Principles of Production of New Devices for Micro- and Nanoelectronics on the Base of Materials with Ion Tracks	FernUniversität Hagen	10/04
SF4	Staufenbiel, F.	Elektronentemperatur im Zentrum von Ionenspuren in Metallen	TU-Berlin	06/04
SF5	Hallatschek, O.	Dynamik fluktuierender Fadenmoleküle	FU-Berlin	12/04
SF5	Thul, R.	Analysis of intracellular reaction diffusion systems: The stochastic medium Calcium	FU-Berlin	11/04
SF6	Kühbacher, M.	Untersuchungen zur Identifizierung und Lokalisierung von metall- und metalloidgehaltigen Proteinen im zentralen Nervensystem und männlichen Reproduktionssystem	FU-Berlin	09/04
SE2	Dylla, T.	Electron Spin Resonance and Transient Photocurrent Measurements on Microcrystalline Silicon	FU-Berlin	10/04
SE2	Rega, N.	Photolumineszenz von epitaktischen Cu(In,Ga)Se ₂ -Schichten	FU-Berlin	02/04

SE3	Pietzker, C.	In-Situ Wachstumsuntersuchungen beim reaktiven Anlassen von Cu, In Schichten in elementarem Schwefel	Universität Potsdam	01/04
SE3	Rudigier, E.	Phase Transformations and Crystalline Quality of CuInS ₂ Thin Films	Philipps-Universität Marburg	11/04
SE4	Ernstorfer, R.	Spectroscopic investigation of photo-induced heterogeneous electron transfer	FU-Berlin	07/04
SE4	Neges, M.	Der Beitrag nicht-thermalisierter Ladungsträger zum Photostrom am InP:Zn/SnO ₂ :F-Heterokontakt	FU-Berlin	02/04
SE5	Barkschat, A.	Bildgebende elektrochemische Untersuchungen an Grenzflächen mit metallzentrierten Elektronenübertragungen	FU-Berlin	04/04
SE5	Rauscher, S.	Dynamische Modifizierung von Siliziumelektrolyt-Grenzflächen und deren oberflächenphysikalische Eigenschaften	BTU Cottbus	01/04
SE5	Schweizer, S.	Dynamisches Verhalten von Silizium-Elektroden in Fluor-haltigen Elektrolyten	BTU Cottbus	01/04
SE6	Meier, U.	Grenzflächenverhalten und Morphologie des ZnO/Si Heterokontaktes: Eine Photoemissionsstudie	BTU Cottbus	06/04

Diploma				
SF3	Bütow, A.	Strukturuntersuchungen an Metallschäumen in verschiedenen Entwicklungsstadien	TU-Berlin	06/04
SF3	Mechler, S.	Kristallisation des metallischen Massivglases ZnTiNiCuBe	TU-Berlin	01/04
SF4	Kott, P.	Weiterentwicklung von Modulatorrädern für die Protonentherapie von Augentumoren	FH Giessen-Friedberg	09/04
SF5	Fischer, S.	Aeolian sand transport and dune formation	FU-Berlin	12/04
SF5	Wagner, F.	Polymers in Confined Geometry	FU-Berlin	12/04
SF5	van Teeffelen, S.	Theorie effektiver Potentiale semiflexibler Polymer-Lösungen	FU-Berlin	07/04
SE1	Clemens, P.	Einfluss der Substratpräparation auf das epitaktische Wachstum von Silizium mit	FH Zweibrücken	05/04
SE1	Friedrich, F.	Dynamik der Ladungsträgerrekombination an Pb-Defekten der c-Si/SiO ₂ -Grenzfläche	HU-Berlin	01/04
SE1	Hübener, K.	Untersuchungen zur metallinduzierten Kristallisation von amorphem Silizium	HU-Berlin	07/04

SE1	Hübner, S.	Aluminum-induced solid phase crystallization of amorphous silicon	FHTW Berlin	04/04
SE1	Knipper, U.	Elektrische Eigenschaften von epitaktischen Silizium Schichten für Dünnschichtsolarzellen	HU-Berlin	02/04
SE1	Zimmermann, O.	Realisierung einer Steuerungssoftware für einen Messplatz zur Bestimmung der Diffusionslänge im kristallinem Silizium	FH Stralsund	09/04
SE2	Pistor, P.	Quantitative Analysis of soft X-ray emission spectra applied to chalcopyrite solar cell materials	FU-Berlin	12/04
SE2	Schönmann, A.	Entwicklung einer low-cost-Depositionsmethode für Schichtkomponenten von Chalkopyrit-Solarzellen	FHTW	11/04
SE2	Wanzel, J.	Aufbau einer Prozesskontrolle mittels Laser-Licht-Streuung bei der Herstellung von Chalkopyrit-Halbleiterschichten	FU-Berlin	06/04
SE3	Körber, P.	Minimierung von Kurzschlussströmen in flexiblen (Cu, In, Ga) Se ₂ Dünnschichtsolarzellen	TFH-Berlin	02/04
SE3	Lauche, J.	Konstruktion und Aufbau eines Verkapselungsgerätes für Solarkleinmodule	TFH-Berlin	04/04
SE6	Andres, S.	Elektronische Struktur und Morphologie der InSe-terminierten Si(111) Oberfläche	TU Freiberg	08/04
HAD	Bollack, F.	Programm für die automatische Kalibration von Dichtemessungen mit Gammastrahlung	Berufsakademie in der FHW Berlin	08/04
HAD	Kirste, S.	Entwicklung einer 64-bit-Software zur Separation morphologischer Strukturen in dreidimensionalen Bildern	Berufsakademie in der FHW Berlin	08/04
HAD	Kriegel, M.	Optimierung eines mehrdimensionalen parametrisierten Simulationsmodells durch Vergleich mit gemessenen Daten in der Solarenergie-Forschung	Berufsakademie in der FHW Berlin	08/04
HAD	Lindner, S.	Auswertung von Bohrkernaufnahmen aus dem smartcube smatscanner	Berufsakademie in der FHW Berlin	08/04
HAD	Tege, P.	Konzeption zur Entwicklung einer Datenbank zur Bereitstellung komplexer Probenumgebungsparameter (Temperatur und Magnetfeld) für Neutronenstreuexperimente am Forschungsreaktor BER-II	Berufsakademie in der FHW Berlin	08/04

Master Thesis				
SE2	Cao, X.	CdS buffer layers in Cu(I,Ga)(S,Se) ₂ solar cells - synchrotron-based spectroscopic investigations	FU-Berlin	06/04

Studienarbeit				
SF3	Backhaus, P.	Benutzeroberfläche für die Synchrotrontomographie	Berufsakademie Berlin	12/04

Summer students etc.

The 17th HMI Summer Program for undergraduate students took place from August 8 to September 9, 2004. 24 students, including 8 from abroad, joined in actual research projects and participated in a series of seminars informing about the activities of the HMI.

Beyond the Summer Program, 40 student trainees and 56 high school trainees visited the HMI for individual training projects.

Faculty appointments and Awards

Faculty appointments

Dep.	Name	Position	Date
SF5	Kroy, K.	C3-position Universität Leipzig	accepted 12/04
SF5	Frey, E.	C4-position Ludwig-Maximilians-Universität (LMU) München	accepted 12/04

Awards

Dep.	Name	Award
SF1	Strobl, M.	Outstanding Student Research Award Finalist, 07.06.2004
SF3	Babcsán, N.	Science award of the Hungarian Academy of Sciences, 15.11.2004
SF6	Bukalis, K.	Posterpreis Macro and Trace Elements, 25.09.2004
SF6	Dalla Puppa, L.	Posterpreis der Gemeinsamen Herbsttagung 2004, 26.11.2004
SE1	Böhme, C.	Wissenschaftspreis IHK Nordhessen, 17.06.2004
SE1	Böhme, C.	HMI-Kommunikationspreis 2004, 09.07.2004
SE1	Friedrich, F.	Lindauer Nobelpreisträgertreffen 2004, 01.07.2004
SE2	Dittrich, T.	Innovationspreis Berlin-Brandenburg 2004, 10.12.2004
SE2	Klenk, R.	Technologie-Transfer-Preis, 29.11.2004
SE2	Lux-Steiner, M.C.	Technologie-Transfer-Preis des HMI, 29.11.2004
SE2	Meyer, N.	Technologie-Transfer-Preis, 29.11.2004
SE2	Rega, N.	Graduate Student Award of the EMRS Spring Meeting 2004, 28.05.2004
SE4	Ernstorfer, R.	Feodor Lynen Award, 01.10.2004

Participation in external scientific bodies and committees

Dep.	Name	Committee / Board / Scientific body
SF	Steitz, R.	ILL Scientific Panel: Sub-Committee 9
SF1	Hilscher, D.	Isolde Neutron Time-of-Flight Committee, CERN
SF1	Krist, T.	International Conference on Polarized Neutrons PNCMI 2004
SF1	Krist, T.	International Conference on Neutron Optics NOP 2004
SF1	Krist, T.	Chairman COST Action P7
SF1	Mezei, F.	Journal of Neutron Research
SF1	Mezei, F.	Experimental Facilities Advisory Oversight Committee of the SNS Project, Oakridge (USA)
SF1	Mezei, F.	International Advisory Committee of IPN 2003 Conference
SF1	Mezei, F.	International Advisory Committee of Conference on Polarized Neutrons in Condensed Matter Investigations (PNCMI 2003)
SF1	Mezei, F.	European Neutron Scattering Association (ENSA), Switzerland
SF1	Mezei, F.	International Advisory Council of the Budapest Neutron Center (BNC), Budapest, Hungary
SF1	Mezei, F.	Scientific Council Laboratoire Leon Brillouin (LLB), Saclay, France
SF1	Peters, J.	Mitglied im Vorstand der Akademischen Versammlung der TFH
SF1	Treimer, W.	Fachgruppe Physikalische Technik/Medizinphysik
SF1	Treimer, W.	SINQ Scientific Advisory Committee for non-destructive applications
SF1	Treimer, W.	Berufungskommission Physikalische Technik/Medizinphysik
SF1	Treimer, W.	Forschung an Fachhochschulen für Berlin
SF1	Treimer, W.	Gutachter für Tschechische Akademie der Wissenschaften
SF2	Graf, H.	Komitee für Forschung mit Neutronen
SF2	Graf, H.	BMBF Gutachterausschuss Erforschung kondensierter Materie an Großgeräten
SF2	Graf, H.	Scientific Council of the ILL
SF2	Graf, H.	Instrumentierungsausschuss FRM-II
SF2	Holub-Krappe, E.	Wissenschaftliches Komitee zur Vorbereitung der 4th School on Magnetism and Synchrotron Radiation
SF2	Holub-Krappe, E.	Executive Committee of the International X-Ray Society
SF3	Abromeit, C.	Int. Advisory Committee of the XVI. Int. Conf. on Physics of Radiation Phenomena and Radiation Materials Science
SF3	Abromeit, C.	Int. Advisory Committee of the 5th Ural Seminar in Snezhinsk 2005
SF3	Banhart, J.	Organisation DFG-Symposium
SF3	Banhart, J.	Commission for Editor of Materials Transactions
SF3	Wanderka, N.	International Steering Field Emission Society
SF3	Wanderka, N.	THERMEC 2006/Topic(Metallic Glasses)-Coordinator
SF3	Wiedenmann, A.	Experiment Selection Panel, Laboratoire Leon Brillouin (France)
SF3	Wiedenmann, A.	PNCMI2004
SF3	Wiedenmann, A.	Instrumentation advisory board ANSTO/Australia
SF3	Wiedenmann, A.	8th ICCMSP-Marrakech-Morocco
SF3	Wiedenmann, A.	ILL Subcommittee College 7
SF3	Wiedenmann, A.	Advisory committee Instrumentation KAERI
SF3	Wiedenmann, A.	Scientific committee, Paul-Scherrer-Institut (Switzerland)
SF3	Wiedenmann, A.	ESS Instrumentation committee
SF4	Biersack, J.	Radiation Effects and Defects in Solids
SF4	Denker, A.	IGAS-Beirat
SF4	Denker, A.	Advisory Committee of the International Conference on Particle Induced X-ray Emission

Dep.	Name	Committee / Board / Scientific body
SF4	Denker, A.	COST G8 (Non-destructive Testing of Museum Objects)
SF4	Denker, A.	Centre Européen d'Archaeometrie Liège
SF4	Fink, D.	PAC (Program Advisory Committee), Sao Paulo
SF4	Fink, D.	Radiation Effects and Defects in Solids
SF4	Homeyer, H.	International Advisory Committee on the TESLA Cyclotron Installation at VINCA, Belgrade
SF4	Homeyer, H.	International Organizing Committee of the International Conference on Cyclotrons and their Application
SF4	Schiwietz, G.	ICACS
SF4	Schiwietz, G.	SHIM
SF4	Schiwietz, G.	Topical Issue "Tracks03"
SF4	Schiwietz, G.	Editorial Board "Nuclear Instruments and Methods"
SF5	Frey, E.	Sonderforschungsbereich Uni Bielefeld
SF5	Frey, E.	Berufungskommission Universität Leipzig
SF5	Frey, E.	SFB Begutachtung Uni Bielefeld
SF5	Frey, E.	Heraeus Workshop zum Thema "Molekulare Motoren"
SF5	Frey, E.	Vorsitzender des Arbeitskreises Biologische Physik, Deutsche Physikalische Gesellschaft
SF6	Behne, D.	Scientific Committee of the Conference Series "Nuclear Analytical Methods in the Life Sciences" (NAMLS)
SF6	Behne, D.	International Scientific Committee of the "8th International Symposium on Metal Ions in Biology and Medicine"
SF6	Behne, D.	Parent Committee of the Conference Series "Trace Elements in Man and Animals" (TEMA)
SF6	Kyriakopoulos, A.	Lenkungsausschuss des HGF-Programms "Environmental Health"
SF6	Kyriakopoulos, A.	GMS
SF6	Kyriakopoulos, A.	Deutsche Gesellschaft für Protein Forschung
SF6	Kyriakopoulos, A.	international scientific committee of the 8th International Symposium on Metal Ions in Biologie and Medicine
SF6	Richarz, A.	Journal of Trace Elements in Medicine and Biology
SF7	von Oertzen, W.	Lise Meitner Prize committee of EPS
SF7	von Oertzen, W.	Conseil Scientifique du Departement (CSD), Physique nucléaire et corpusculaire, CNRS (F), Mitglied
SE1	Fuhs, W.	Wissenschaftl. Beirat Forschungsallianz Kristalline Silizium Solarzellen Technologie (FACT)
SE1	Fuhs, W.	Wiss. Beirat ISFH Emmerthal
SE1	Fuhs, W.	Internat. Advisory Committee - Internat. Conf. on Amorphous and Microcrystalline Semiconductors (ICAMS)
SE1	Nickel, N.H.	Gasteditor bei physica status solidi (Festschrift Verabschiedung Prof. Fuhs)
SE1	Nickel, N.H.	NATO Advanced Research Workshop Zinc Oxide as a Material for Micro- and Optoelectronic Applications
SE1	Nickel, N.H.	Materials Research Society Spring Meeting; Symposium H
SE1	Nickel, N.H.	Intern. Conf. on Polycrystalline Semiconductors POLYSE 2004
SE2	Ennaoui, A.	International Steering Committee in World Renewable Energy Congress VIII
SE2	Ennaoui, A.	Pôle de compétence Matière condensée Université Mohamed V
SE2	Ennaoui, A.	Editorial Board in Solar Energy Materials and Solar Cells
SE2	Ennaoui, A.	Editorial Board in Moroccan Journal of Condensed Matter
SE2	Ennaoui, A.	Program Committee for 8th International Conference on Condensed Matter and Statistical Physics
SE2	Fischer, C.	BESSY-Nutzerausschuss
SE2	Lux-Steiner, M.C.	Jury des Innovationspreises Berlin/Brandenburg

Dep.	Name	Committee / Board / Scientific body
SE2	Lux-Steiner, M.C.	EUREC Agency
SE2	Lux-Steiner, M.C.	Hochschulrat der Universität Oldenburg
SE2	Lux-Steiner, M.C.	Wissenschaftlicher Beirat der Sulfurcell Solartechnik GmbH
SE2	Lux-Steiner, M.C.	Eidgenössische Energieforschungskommission CORE in der Schweiz
SE2	Lux-Steiner, M.C.	Wissenschaftlicher Beirat des Berliner Instituts für Kristallzüchtung (IKZ) in der Wissenschaftsgemeinschaft Gottfried Wilhelm Leibniz
SE2	Lux-Steiner, M.C.	Jury-Mitglied Erwin-Schrödinger-Preis der HGF
SE2	Lux-Steiner, M.C.	Beirat Energie des Forschungszentrums Jülich
SE2	Lux-Steiner, M.C.	WTA-Aufsichtsrat im Forschungszentrum Jülich (FZJ)(HGF) und Mitglied des Wissenschaftlichen Beirats für Energieforschungsarbeiten im Programm Energie (FZJ)
SE2	Lux-Steiner, M.C.	Direktorium des nationalen Forschungsverbundes Sonnenenergie FVS (Verbund von außeruniversitären Forschungseinrichtungen auf dem Gebiet der regenerativen Energien)
SE2	Siebentritt, S.	Organizer of the Symposium F "Thin-Film Compound Semiconductor Photovoltaics" at the MRS Spring Meeting 2005, San Francisco
SE2	Siebentritt, S.	HMI-Photovoltaik Colloquium
SE3	Scheer, R.	Steering Committee IP6 Project ATHLET-PV
SE5	Ellmer, K.	Verbundprojekt transparente Verbindungshalbleiter
SE5	Ellmer, K.	AiF-projekt Reaktives Magnetronspütern von CuInS ₂ -Solarzellen
SE5	Tributsch, H.	Associated Member of IUPAC
I	Nielsen, U.	Innovationsförderprogramm der Investitionsbank Berlin
I	Nielsen, U.	Ständige Kommission des Verwaltungsrates des Konrad-Zuse-Zentrums für Informationstechnik Berlin
I	Nielsen, U.	Beirat des Fachbereichs Informatik der TFH Berlin
I	Nielsen, U.	Fachkommission Technik der Dualen Kommission des Fachbereichs Berufsakademie an der FH für Wirtschaft Berlin
I	Nielsen, U.	Prüfungsausschuss der Fachrichtung Technik der Berufsakademie Berlin
I	Nielsen, U.	Collaboration Board TESLA des DESY Hamburg
I	Nielsen, U.	Mitgliederversammlung des DFN Vereins
DN	Grzanna, J.	Applied Optics
DN	Heinzel, I.	NT-PC-Arbeitskreis der HGF
DN	Prigge, G.	HGF-Ausschuss Kommunikations- und Informationsverarbeitung in der Verwaltung (KIV)
DN	Schwarz, B.	NT-PC-Arbeitskreis
DN	Ziem, P.	Koordinierungsausschuss Datenverarbeitung (KODA) der HGF
DS	Sauer, O.	Prüfungsausschuss der Fachrichtung Informatik der Berufsakademie Berlin
DS	Wulf, F.	Koordinierungsausschuss für Elektronik und Prozessdatenverarbeitung der HGF
DS	Wulf, F.	Committee for European Studies on Norms for Electronics (ESONE), XT/TCC
DS	Wulf, F.	Studiengruppe für Elektronische Instrumentierung (SEI)
WGF	Steiner, M.	Steering Committee, Institut Laue-Langevin (ILL), Grenoble, France
WGF	Steiner, M.	Aufsichtsrat, BESSY GmbH Berlin
WGF	Steiner, M.	Commission on Neutron Scattering of the International Union of Crystallography, USA

Dep.	Name	Committee / Board / Scientific body
WGF	Steiner, M.	DAAD
WGF	Steiner, M.	Innovationsrat des Ministeriums für Wirtschaft und Arbeit des Landes Sachsen-Anhalt

Organization of Scientific Conferences and Meetings

Dep.	Title	Type	Date
SF	Arbeitskreis der TEM-Präparatoren Berlin/Brandenburg Vorstellung der am HMI entwickelten TEM Präparationstechniken, P.Schubert-Bischoff	Gründungsworkshop	28.01.04
SF1	Workshop on EXED	Workshop	10.05.04 - 11.05.04
SF5	Heraeus Workshop zum Thema "Molekulare Motoren"	Conference	18.04.04 - 22.04.04
SF6	Gemeinsame Herbsttagung "Metalloproteine und Metalloproteinproteine" Kyriakopoulos, A.; Graebert, A.; Alber, D.; Behne, D.	wissenschaftliche Tagung	25.11.04 - 26.11.04
SF7	1st DETNI ASIC Submission Readiness Review Meeting B.Gebauer	Workshop	04.09.04
SF7	1st Joint DETNI-MILAND Workshop B.Gebauer, B. Guerard	Workshop	27.02.04
SF7	2nd DETNI ASIC Meeting B.Gebauer	Workshop	03.04.04
SF7	2nd Joint DETNI-MILAND Workshop B.Gebauer	Workshop	23.10.04
SF7	3rd DETNI ASIC Meeting B.Gebauer	Workshop	19.06.04
SF7	5th DETNI ASIC Meeting B.Gebauer	Workshop	27.10.04
SF7	Workshop: Ion-Matter-Interaction W.von Oertzen	Workshop	05.10.04 - 06.10.04
SE1	Intern. Conf. on Polycrystalline Semiconductors POLYSE 2004, Potsdam, Germany PD Dr. N. H. Nickel	Conference	05.09.04 - 10.09.04
SE1	NATO Advanced Research Workshop Zinc Oxide as a Material for Micro- and Optoelectronic Applications, St. Petersburg, Russia PD Dr. N. H. Nickel	Workshop	23.06.04 - 25.06.04
SE1	Silizium - Photovoltaik Dr. Gall, SE1; Dr. Finger, IPV Jülich	Workshop	19.09.04 - 24.09.04
SE2	Workshop on $N@C_{60}$ -based Quantum Computing Dr. Wolfgang Harneit	Workshop	14.12.04
DS	Studiengruppe für Elektronische Instrumentierung, Frühjahrstagung 2004 Dr. Friedrich Wulf	Conference	29.03.04 - 31.03.04
DS	Studiengruppe für Elektronische Instrumentierung, Herbsttagung 2004 Dr. Friedrich Wulf	Conference	27.09.04 - 29.09.04