

- ▷ **Publications**
- ▷ **Proceedings and Posters**
- ▷ **Talks and Teaching Activities**
- ▷ **Theses and Workshops**

## Publications<sup>1</sup>

### Hyperon Production in the Channel $pp \rightarrow K^+ \lambda p$ Near the Reaction Threshold

Phys. Lett. B 632 (2006) 27

Abd El-Samad, S., R. Bilger, A. Böhm, K.-Th. Brinkmann, H. Clement, S. Dshemuchadse, W. Eyrich, A. Erhardt, C. Fanara, A. Filippi, H. Freiesleben, M. Fritsch, R. Geyer, J. Hauffe, A. Hassan, P. Herrmann, D. Hesselbarth, B. Jakob, K. Kilian, H. Koch, J. Kress, E. Kuhlmann, S. Marcello, S. Marwinski, A. Metzger, P. Michel, K. Möller, H.P. Morsch, **L. Naumann**, E. Roderburg, A. Schamlott, P. Schönmeier, M. Schulte-Wissermann, W. Schroeder, M. Steinke, F. Stinzing, G.Y. Sun, J. Wächter, G.J. Wagner, M. Wagner, A. Wilms, S. Wirth, U. Zielinski

### Single-Pion Production in pp Collisions at 0.95 GeV/c (I)

Eur. Phys. J. A 30 (2006) 443

Abd El-Samad, S., R. Bilger, K.-Th. Brinkmann, H. Clement, M. Dietrich, E. Doroshkevich, S. Dshemuchadse, A. Erhardt, W. Eyrich, A. Filippi, H. Freiesleben, M. Fritsch, R. Geyer, A. Gillitzer, J. Hauffe, D. Hesselbarth, R. Jaekel, B. Jakob, L. Karsch, K. Kilian, H. Koch, J. Kress, E. Kuhlmann, S. Marcello, S. Marwinski, R. Meier, K. Möller, H.P. Morsch, **L. Naumann**, E. Roderburg, P. Schönmeier, M. Schulte-Wissermann, W. Schroeder, M. Steinke, F. Stinzing, G.Y. Sun, J. Wächter, G.J. Wagner, M. Wagner, U. Weidlich, A. Wilms, S. Wirth, G. Zhang, P. Zupranski

### Study of Spectator Tagging in the Reaction $np \rightarrow pp\pi^-$ with a Deuteron Beam

Eur. Phys. J. A 29 (2006) 353

Abdel-Bary, M., K.-Th. Brinkmann, H. Clement, E. Doroshkevich, S. Dshemuchadse, A. Erhardt, W. Eyrich, H. Freiesleben, A. Gillitzer, R. Jäkel, L. Karsch, K. Kilian, E. Kuhlmann, K. Möller, H.P. Morsch, **L. Naumann**, N. Paul, C. Pizzolotto, J. Ritman, E. Roderburg, P. Schönmeier, W. Schroeder, M. Schulte-Wissermann, G.Y. Sun, A. Teufel, A. Ucar, G.J. Wagner, M. Wagner, P. Wintz, P. Wüstner, P. Zupranski

### Dielectron Production in $^{12}\text{C} + ^{12}\text{C}$ Collisions at 2 AGeV with HADES

Phys. Rev. Lett. 98 (2007) 052302

Agakichiev, G., C. Agodi, H. Alvarez-Pol, A. Balanda, D. Bertini, J. Bielcik, G. Bellia, M. Böhmer, H. Bockmeyer, J.L. Boyard, P. Braun-Munzinger, P. Cabanas, S. Chernenko, T. Christ, R. Coniglione, L. Cosentino, J. Diaz, **F. Dohrmann**, I. Duran, T. Eberl, **W. Enghardt**, L. Fabbietti, O. Fateev, O. Fernandez, P. Finocchiaro, J. Friese, I. Fröhlich, B. Fuentes, C. Garabatos, J.A. Garzon, R. Gernhäuser, M. Golubeva, D. Gonzalez-Diaz, **E. Grosse**, F. Guber, T. Hennino, S. Hlavac, R. Holzmann, J. Homolka, A. Ierusalimov, I. Iori, A. Ivashkin, M. Jaskula, M. Jurkovic, M. Kargalis, M. Kajetanowicz, **B. Kämpfer**, **K. Kanaki**, T. Karavicheva, A. Kastenmüller, L. Kidon, P. Kienle, I. Koenig, W. Koenig, H.J. Körner, B.W. Kolb, **R. Kotte**, R. Krücken, A. Kugler, W. Kühn, R. Kulesa, A. Kurepin, S. Lang, S. Lange, J. Lehnert, E. Lins, D. Magestro, C. Maiolino, A. Malarz, J. Markert, V. Metag, J. Mousa, M. Münch, C. Müntz, **L. Naumann**, A. Nekhaev, J. Novotny, J. Otwinowski, Y. Pachmayer, V. Pechenov, T. Perez, P. Piattelli, J. Pietraszko, R. Pleskac, M. Ploskon, V. Pospisil, W. Prokopowicz, W. Przygoda, B. Ramstein, A. Reshetin, J. Ritman, M. Roy-Stephan, A. Rustamov, **A. Sadovsky**, B. Sailer, P. Salabura, M. Sanchez, P. Sapienza, A. Schmah, H. Schön, W. Schön, R.S. Simon, V. Smolyankin, L. Smykov, S. Spataro, B. Spruck, H. Ströbele, J. Stroth, C. Strum, M. Sudol, M. Suk, A. Taranenko, P. Tlusty, A. Toia, M. Traxler, H. Tsertos, D. Vassiliev, A. Vazquez, V. Wagner, W. Walus, M. Wisniowski, T. Wojcik, **J. Wüstenfeld**, Y. Zanevsky, K. Zeitelhack, D. Zoviec, P. Zumbach

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<sup>1</sup>From the authors printed in **bold** further information can be obtained

### **Vibrational Excitations and Tilted Rotation in Lu-163**

Phys. Scr. T125 (2006) 139

Almehed, D., R.G. Nazmitdinov, **F. Dönau**

### **Performance of RPC with low-resistive silicate glass electrodes exposed to an intense continuous electron beam**

Nucl. Instr. Meth. Phys. Res. A (2007) in print

Ammosov, V., M. Ciobanu, **F. Dohrmann**, V. Gapienko, F. Guber, N. Herrmann, K.D. Hildenbrand, A. Ivashkin, **R. Kotte**, W.F.J. Müller, **L. Naumann**, A. Schüttauf, A. Semak, P. Senger, Yu. Sviridov, **A. Sytcheva**, **D. Stach**, V. Tiflov, **J. Wüstenfeld**, V. Zaets

### **Dependence of the Linewidth of Planar Electron Channeling Radiation on the Thickness of the Diamond Crystal**

Phys. Rev. B 74 (2006) 045209

Azadegan, B., **W. Wagner**, **J. Pawelke**

### **Quasi-Particle Description of Strongly Interacting Matter: Towards a Foundation**

Eur. Phys. J. C 49 (2007) 205

**Bluhm**, M., **B. Kämpfer**, **R. Schulze**, **D. Seipt**

### **The Two-Step Gamma Cascade Method as a Tool for Studying Photon Strength Functions of Intermediate-Weight and Heavy Nuclei**

Nucl. Instr. Meth. Phys. Res. B, (2007) in print

Bečvář F., J. Honzátko, M. Krtička, S. Pašić, **G. Rusev**, I. Tomandl

### **Proton-Recoil Detectors for Time-of-Flight Measurements of Neutrons with Kinetic Energies from some tens of keV to a few MeV**

Nucl. Instr. Meth. A (2007) in print

**Beyer**, R., **E. Grosse**, **K. Heidel**, **J. Hutsch**, **A. R. Junghans**, **J. Klug**, **D. Légrády**, **R. Nolte**, **S. Röttger**, **M. Sobiella**, **A. Wagner**

### **On the Detector Arrangement for In-Beam PET for Hadron Therapy Monitoring**

Phys. Med. Biol. 51 (2006) 2143

**Crespo**, P., **G. Shakirin**, **W. Enghardt**

### **Effect of nuclear deformation on the electric-dipole strength in the particle-emission threshold region**

Phys. Rev. C (2007) submitted

**Dönau**, F., **G. Rusev**, **R. Schwengner**, **A.R. Junghans**, **K.D. Schilling**, **A. Wagner**

### **Production of Strangeness in Hot and Cold Nuclear Matter Induced by Both Leptonic and Hadronic Projectiles**

Int. J. Mod. Phys. E 15 (2006) 761

**Dohrmann**, F.

**Relativistic Approaches to Investigations of Few-Nucleon Systems**

Phys. Part. Nucl. 37 (2006) 867

Dorkin, S.M., L.P. Kaptari, **B. Kämpfer**, S.S. Semikh

**Photodissociation of p-Process Nuclei Studied by Bremsstrahlung Induced Activation**

Eur. Phys. J. A 27 (2006) s01, 135

**Erhard, M., A.R. Junghans, R. Beyer, E. Grosse, J. Klug, K. Kosev, C. Nair, N. Nankov, G. Rusev, K.D. Schilling, R. Schwengner, A. Wagner**

**Secondary Structure and Pd(II) Coordination in S-Layer Proteins from Bacillus Sphaericus Studied by Infrared and X-Ray Absorption Spectroscopy**

Biophys. J. 91 (2006) 996

**Fahmy, K.**, M. Merroun, K. Pollmann, J. Raff, **O. Savchuk**, C. Hennig, S. Selenska-Pobell

**In-Beam PET Measurements of Biological Half-Lives of  $^{12}\text{C}$  Irradiation Induced  $\beta^+$ -Activity**

Phys. Med. Biol. (2006) submitted

**Fiedler, F.**, M. Sellesk, **P. Crespo**, R. Jülich, K. Parodi, **J. Pawelke, F. Pönisch, W. Enghardt**

**Identification of Actinide Molecule Complexes: A New Vibrational Spectroscopic Approach at the Free Electron Laser Facility FELBE**

J. Nucl. Mat. (2007) in print

Foerstendorf, H., **W. Seidel**, K. Heim, G. Bernhard

**Production of  $\text{K}^+$  and of  $\text{K}^-$  Mesons in Heavy-Ion Collisions from 0.6 to 2.0 A GeV Incident Energy**

Phys. Rev. C 75 (2007) 024906

Förster, A., F. Uhlig, I. Böttcher, D. Brill, M. Debowski, **F. Dohrmann, E. Grosse**, P. Koczon, B. Köhlmeier, S. Lang, F. Laue, M. Mang, M. Menzel, C. Müntz, **L. Naumann**, H. Oeschler, M. Ploskon, W. Scheinast, A. Schmah, T.J. Schuck, E. Schwab, P. Senger, Y. Shin, J. Speer, H. Ströbele, C. Sturm, G. Surowka, **A. Wagner**, W. Walus

**Orbits, shapes and currents**

Phys. Scr. T125 (2006) 1

**Frauendorf, S.**

**AMOS - An Effective Tool for Adjoint Monte Carlo Photon Transport**

Nucl. Instr. Meth., Phys. Res. B 251 (2006) 326

Gabler, D., J. Henniger, **U. Reichelt**

**Low-lying E1, M1, and E2 Strength Distributions in  $^{124,126,128,129,130,131,132,134,136}\text{Xe}$ : Systematic Photon Scattering Experiments in the Mass Region of a Nuclear Shape or Phase Transition**

Phys. Rev. C 73 (2006) 054315

Garrel, von, H., P. von Brentano, C. Fransen, G. Friessner, N. Hollmann, J. Jolie, F. Käppeler, **L. Käubler**, U. Kneissl, C. Kohstall, L. Kostov, A. Linnemann, D. Mücher, N. Pietralla, H.H. Pitz, **G. Rusev**, M. Scheck, **K.D. Schilling**, C. Scholl, **R. Schwengner**, F. Stedile, S. Walter, V. Werner, K. Wisshak

### **$^3\text{He}(\alpha, \gamma)^7\text{Be}$ cross section at low energies**

Phys. Rev. C 2007, in print

Gyürky, Gy., F. Confortola, H. Costantini, A. Formicola, **D. Bemmerer**, R. Bonetti, C. Brogini, P. Corvisiero, Z. Elekes, Zs. Fülöp, G. Gervino, A. Guglielmetti, C. Gustavino, G. Imbriani, M. Junker, M. Laubenstein, A. Lemut, B. Limata, V. Lozza, **M. Marta**, R. Menegazzo, P. Prati, V. Roca, C. Rolfs, C. Rossi Alvarez, E. Somorjai, O. Straniero, F. Strieder, F. Terrasi, H.P. Trautvetter

### **Chiral symmetry breaking in nuclei**

Czech.J. Phys. 56 (2006) c85

Hamilton, J.H., S.J. Zhu, Y.X. Luo, P.M. Gore, A.V. Ramayya, J.O. Rasmussen, **S. Frauendorf**, E.F. Jones, J.K. Hwang

### **QCD Matter within a Quasi-Particle Model and the Critical End Point**

Nucl. Phys. A 774 (2006) 757

**Kämpfer, B.**, M. Bluhm, R. Schulze, D. Seipt, U. Heinz

### **Di-Electron Bremsstrahlung in Intermediate-Energy $pn$ and $Dp$ Collisions**

Nucl. Phys. A 764 (2006) 338

Kaptari, L.P., **B. Kämpfer**

### **$\omega - \pi\gamma^*$ Transition Form Factor in Proton-Proton Collisions**

Eur. Phys. J. A 31 (2007) 233

Kaptari, L.P., **B. Kämpfer**

### **Di-electrons from eta meson Dalitz decay in proton-proton collisions**

Eur. Phys. J. A (2007) submitted

Kaptari, L. P., **B. Kämpfer**

### **Beta Decay of the Proton-Rich Nuclei $^{102}\text{Sn}$ and $^{104}\text{Sn}$**

Eur. Phys. J. A 27 (2006) 129

Karny, M., L. Batist, A. Banu, F. Becker, A. Blazhev, B.A. Brown, W. Bröchle, J. Döring, T. Faestermann, M. Górska, H. Grawe, Z. Janas, A. Jungclaus, M. Kavatsyuk, O. Kavatsyuk, R. Kirchner, M. La Commara, S. Mandal, C. Mazzocchi, K. Miernik, I. Mukha, S. Muralithar, C. Plettner, A. Pochocki, E. Roeckl, M. Romoli, K. Rykaczewski, M. Schädel, K. Schmidt, **R. Schwengner**, J. Zylicz

### **Beta Decay of $^{101}\text{Sn}$**

Eur. Phys. J. A 31 (2007) 319

Kavatsyuk, O., C. Mazzocchi, Z. Janas, A. Banu, L. Batist, F. Becker, A. Blazhev, W. Bröchle, J. Döring, T. Faestermann, M. Górska, H. Grawe, A. Jungclaus, M. Karny, M. Kavatsyuk, O. Klepper, R. Kirchner, M. La Commara, K. Miernik, I. Mukha, C. Plettner, A. Pochocki, E. Roeckl, M. Romoli, K. Rykaczewski, M. Schädel, K. Schmidt, **R. Schwengner**, J. Zylicz

### **Development of a neutron time-of-flight source at the ELBE accelerator**

Nucl. Instr. Meth. Phys. Res. A (2007) submitted

**Klug, J.**, E. Altstadt, C. Beckert, **R. Beyer**, H. Freiesleben, V. Galindo, **E. Grosse**, **A.R. Junghans**, D. Légrády, B. Naumann, K. Noack, **G. Rusev**, **K.D. Schilling**, R. Schlenk, S. Schneider, K. Seidel, **A. Wagner**, F.-P. Weiss

### **A high-resolution time-of-flight spectrometer with tracking capabilities for fission fragments and beams of exotic nuclei**

Nucl. Instr. Meth. Phys. Res. A (2007) submitted

**Kosev, K.**, N. Nankov, M. Friedrich, **E. Grosse**, **A. Hartmann**, **K. Heidel**, **A.R. Junghans**, **K.D. Schilling**, **R. Schwengner**, **M. Sobiella**, **A. Wagner**

### **Testing Timing RPC Detectors at the Rossendorf Electron Linac ELBE**

Nucl. Instr. Meth. Phys. Res. A 564 (2006) 155

**Kotte, R.**, **F. Dohrmann**, **J. Hutsch**, **L. Naumann**, **D. Stach**

### **RBE of 25 kV X-rays for the Survival and Induction of Micronuclei in the Human Mammary Epithelial Cell Line MCF-12A**

Rad. Env. Biophys. 45 (2006) 253

**Lehnert, A.**, **E. Lessmann**, **J. Pawelke**, **W. Dörr**

### **Investigation of a TSEE Dosimetry System for Determination of Dose in a Cell Monolayer**

Rad. Measurements (2007) submitted

**Lehnert, A.**, **E. Beyreuther**, **E. Lessmann**, **J. Pawelke**

### **RBE of 10 kV X-Rays Determined for the Human Mammary Epithelial Cell Line MCF-12A**

Rad. Res. (2007) submitted

**Lehnert, A.**, **E. Lessmann**, **J. Pawelke**, **W. Dörr**

### **Linkage Between the Intramembrane H-bond Network Around Aspartic Acid 83 and the Cytosolic Environment of Helix 8 in Photoactivated Rhodopsin**

J. Molecular Biol. 366 (2007) 1129

**Lehmann, N.**, **U. Alexiev**, **K. Fahmy**

### **Cooling Dynamics in Multi-Fragmentation Processes**

Eur. Lett. 74 (2006) 806

**Liu, T. X.**, **W.G. Lynch**, **M.J. van Goethem**, **X.D. Liu**, **R. Shomin**, **W.T. Tan**, **M.B. Tsang**, **G. Verde**, **A. Wagner**, **H.F. Xi**, **H.S. Xu**, **W.A. Friedman**, **S.R. Souza**, **R. Donangelo**, **L. Beaulieu**, **B. Davin**, **Y. Larochelle**, **T. Lefort**, **R.T. de Souza**, **R. Yanez**, **V.E. Viola**, **R.J. Charity**, **L.G. Sobotka**

### **Isospin Dependence of Relative Yields of $K^+$ and $K^0$ Mesons at 1.528 AGeV**

Phys. Rev. C 75 (2007) 011901

**Lopez, X.**, **Y.J. Kim**, **N. Herrmann**, **A. Andronic**, **V. Barret**, **Z. Basrak**, **N. Bastid**, **M.L. Benabderrahmane**, **R. Caplar**, **E. Cordier**, **P. Crochet**, **P. Dupieux**, **M. Dzelalija**, **Z. Fodor**, **I. Gasparic**, **A. Gobbi**, **Y. Grishkin**, **O.N. Hartmann**, **K.D. Hildenbrand**, **B. Hong**, **T.I. Kang**, **J. Kecskemeti**, **M. Kirejczyk**, **M. Kis**, **P. Koczon**, **M. Korolija**, **R. Kotte**, **A. Lebedev**, **Y. Leifels**, **M. Merschmeyer**, **W. Neubert**, **D. Pelte**, **M. Petrovici**, **F.**

Rami, W. Reisdorf, M.S. Ryu, A. Schüttauf, Z. Seres, B. Sikora, K.S. Sim, V. Simion, K. Siwek-Wilczynska, V. Smolyankin, G. Stoicea, Z. Tyminski, P. Wagner, K. Wisniewski, **D. Wohlfarth**, Z. Xiao, I. Yushmanov, A. Zhilin, G. Ferini, T. Gaitanos

**First Sub-Threshold Measurement of Sigma(1385) Production in Al+Al Collisions at 1.9 AGeV**

Phys. Rev. Lett. (2007) submitted

Lopez, X., N. Herrmann, P. Crochet, A. Andronic, Z. Basrak, N. Bastid, M.L. Benabderrahmane, P. Bühler, M. Cargnelli, R. Caplar, E. Cordier, P. Dupieux, M. Dzelalija, L. Fabietti, Z. Fodor, I. Gasparic, Y. Grishkin, O.N. Hartmann, K.D. Hildenbrand, B. Hong, T.I. Kang, J. Kecskemeti, M. Kirejczyk, Y.J. Kim, M. Kis, P. Koczon, M. Korolija, **R. Kotte**, A. Lebedev, Y. Leifels, J. Marton, M. Merschmeyer, **W. Neubert**, D. Pelte, M. Petrovici, F. Rami, W. Reisdorf, M.S. Ryu, A. Schüttauf, Z. Seres, B. Sikora, K.S. Sim, V. Simion, K. Siwek-Wilczynska, V. Smolyankin, G. Stoicea, K. Suzuki, Z. Tyminski, P. Wagner, K. Wisniewski, **D. Wohlfarth**, Z. Xiao, I. Yushmanov, X.Y. Zhang, A. Zhilin, J. Zmeskal

**Structure and pH-Sensitivity of the Transmembrane Segment 3 of Rhodopsin**

Biopolymers 82 (2006) 329

**Madathil, S., G. Furlinski, K. Fahmy**

**95 MeV neutron scattering on hydrogen, deuterium, carbon, and oxygen**

Phys. Rev. C 74 (2006) 054002

Mermod, P., J. Blomgren, C. Johansson, A. Öhrn, M. Österlund, S. Pomp, B. Bergenwall, **J. Klug**, L. Nilsson, N. Olsson, U. Tippawan, P. Nadel-Turonski, O. Jonsson, A. Prokofiev, P.-U. Renberg, Y. Maeda, H. Sakai, A. Tamii, K. Amos, R. Crespo, A. Moro

**Development of an Algorithm for Respiratory Motion Correction in Gated PET Investigations of the Thorax**

Phys. Med. Biol. (2007) submitted

**Möckel, D., U. Just, J. van den Hoff**

**Quantification of  $\beta^+$  activity generated by hard photons by means of PET**

Phys. Med. Biol. (2007) submitted

**Möckel, D., H. Müller, J. Pawelke, M. Sommer, E. Will, W. Enghardt**

**In-beam PET at High-Energy Photon Beams: A Feasibility Study**

Phys. Med. Biol. 51 (2006) 1779

**Müller, H., W. Enghardt**

**Isotope ratios and isoscaling of spallation products in p(1 GeV) + A reactions**

Eur. Phys. J. A 31 (2007) 125

**Neubert, W., M.N. Andonenko, L.N. Andonenko**

**Electron beam monitoring for channeling radiation measurements**

Nucl. Instr. Meth., Phys. Res. B 245 (2007) 319

**Neubert, W., B. Azadegan, W. Enghardt, K. Heidel, J. Pawelke, W. Wagner**

## **Metal Binding by Bacteria from Uranium Mining Waste Piles and its Technological Applications**

Biotechnology Adv. 24 (2006) 58

Pollmann, P., J. Raff, M. Merroun, **K. Fahmy**, S. Selenska-Pobell

## **HADES Experiment: Di-Lepton Spectroscopy in p+p (2.2 GeV) and C+C (1 and 2 AGeV) Collisions**

Acta Phys. Pol. B 37 (2006) 139

Przygoda, W., G. Agakishiev, C. Agodi, H. Alvarez-Pol, A. Balanda, R. Bassini, G. Bellia, D. Belver, J. Bielicik, A. Blanco, M. Boehmer, C. Boiano, A. Bortolotti, J. Boyard, S. Brambilla, P. Braun-Munzinger, P. Cabanelas, S. Chernenko, T. Christ, R. Coniglione, M. Dahlinger, J. Diaz, R. Djeridi, **F. Dohrmann**, I. Duran, T. Eberl, **W. Enhardt**, L. Fabbietti, O. Fateev, P. Finocchiaro, P. Fonte, J. Friese, I. Froehlich, J. Garzon, R. Gernhaeuser, M. Golubeva, D. Gonzalez-Diaz, **E. Grosse**, F. Guber, T. Heinz, T. Hennino, S. Hlavac, J. Hoffmann, R. Holzmann, A. Ierusalimov, I. Iori, A. Ivashkin, M. Jaskula, M. Jurkovic, M. Kajetanowicz, **B. Kämpfer**, **K. Kanaki**, T. Karavicheva, D. Kirschner, I. Koenig, W. Koenig, B. Kolb, U. Kopf, **R. Kotte**, J. Kotulic-Bunta, R. Kruecken, A. Kugler, W. Kuehn, R. Kulesa, S. Lang, J. Lehnert, L. Maier, P. Maier-Komor, C. Maiolino, J. Marin, J. Markert, V. Metag, N. Montes, E. Moriniere, J. Mousa, M. Muench, C. Muentz, **L. Naumann**, R. Novotny, J. Novotny, W. Ott, J. Otwinowski, Y. Pachmayer, T. Perez, V. Pechenov, J. Pietraszko, J. Pinhao, R. Pleskac, V. Pospisil, A. Pullia, N. Rabin, B. Ramstein, S. Riboldi, J. Ritman, P. Rosier, M. Roy-Stephan, A. Rustamov, **A. Sadovsky**, B. Sailer, P. Salabura, P. Sapienza, A. Schmah, W. Schoen, C. Schroeder, E. Schwab, P. Senger, R. Simon, V. Smolyankin, L. Smykov, S. Spataro, B. Spruck, H. Stroebele, J. Stroth, C. Sturm, M. Sudol, V. Tiflov, P. Tlusty, A. Toia, M. Traxler, H. Tsertos, I. Turzo, V. Wagner, W. Walus, C. Willmott, S. Winkler, M. Wisniowski, T. Wojcik, **J. Wüstenfeld**, Y. Zanevsky, P. Zumbach

## **Application of Advanced Monte Carlo Methods in Numerical Dosimetry**

Rad. Prot. Dos. 119 (2006) 479

**Reichelt, U.**, J. Henniger, C. Lange

## **Systematics of Pion Emission in Heavy Ion Collisions in the 1 A GeV Regime**

Nucl. Phys. A 781 (2007) 459

Reisdorf, W., M. Stockmeier, A. Andronic, M.L. Benabderrahmane, O.N. Hartmann, N. Herrmann, K.D. Hildenbrand, Y.J. Kim, M. Kis, P. Koczon, T. Kress, Y. Leifels, X. Lopez, M. Merschmeyer, A. Schüttauf, J.P. Alard, V. Barret, Z. Basrak, N. Bastid, R. Caplar, P. Crochet, P. Dupieux, M. Dzelalija, Z. Fodor, Y. Grishkin, B. Hong, T.I. Kang, J. Kecskemeti, M. Kirejczyk, M. Korolija, **R. Kotte**, A. Lebedev, T. Matulewicz, **W. Neubert**, M. Petrovici, F. Rami, M.S. Ryu, Z. Seres, B. Sikora, K.S. Sim, V. Simion, K. Siwek-Wilczynska, V. Smolyankin, G. Stoicea, Z. Tymiński, K. Wisniewski, **D. Wohlfarth**, Z. Xiao, H.S. Xu, I. Yushmanov, A. Zhilin

## **Multiple octupole-type band structures in $^{220}\text{Th}$ : Reflection-asymmetric tidal waves?**

Phys. Rev. C 74 (2006) 044305

Reviol, W., C.J. Chiara, M. Montero, D. G. Sarantis, O.L. Pechenaya, M.P. Carpenter, R.V.F. Janssens, T.L. Khoo, T. Lauritsen, C. J. Lister, D. Seweryniak, S. Zhu, **S. Frauendorf**

## **Determining Beam Parameters in a Storage Ring with a Cylindrical Hodoscope Using Elastic Proton-Proton Scattering**

Nucl. Instr. Meth. Phys. Res. A 556 (2006) 57

Rohdjeß, H., D. Albers, J. Bisplinghoff, R. Bollmann, K. Büßer, O. Diehl, **F. Dohrmann**, H.-P. Engelhardt, P.D. Eversheim, M. Gasthuber, J. Greiff, A. Groß, R. Groß-Hardt, F. Hinterberger, M. Igelbrink, R. Langkau, R. Maier, F. Mosel, M. Müller, M. Münstermann, D. Prasuhn, P. von Rossen, H. Scheid, N. Schirm, F. Schwandt, W. Scobel, H.J. Trelle, A. Wellinghausen, W. Wiedmann, K. Woller, R. Ziegler



### **Radiation Damage of Polypropylene Fiber Targets in Storage Rings**

Nucl. Instr. Meth. Phys. Res. B 243 (2006) 127

Rohdjeß, H., D. Albers, J. Bisplinghoff, R. Bollmann, K. Büßer, O. Diehl, **F. Dohrmann**, H.-P. Engelhardt, P.D. Eversheim, J. Greiff, A. Groß, R. Groß-Hardt, F. Hinterberger, M. Igelbrink, R. Langkau, R. Maier, F. Mosel, M. Müller, M. Münstermann, D. Prasuhn, P. von Rossen, H. Scheid, N. Schirm, F. Schwandt, W. Scobel, H.J. Trelle, A. Wellinghausen, W. Wiedmann, K. Woller, R. Ziegler

### **Upper Limits on Resonance Contributions to Proton-Proton Elastic Scattering in the c.m. Mass Range 2.05-2.85 GeV/c<sup>2</sup>**

Eur. Phys. J. A 28 (2006) 115

Rohdjeß, H., M. Altmeier, F. Bauer, J. Bisplinghoff, R. Bollmann, Büßer, M. Busch, O. Diehl, **F. Dohrmann**, H.-P. Engelhardt, J. Ernst, P.D. Eversheim, K.O. Eysler, O. Felden, R. Gebel, A. Groß, R. Groß-Hardt, F. Hinterberger, R. Langkau, J. Lindlein, R. Maier, F. Mosel, D. Prasuhn, P. von Rossen, H. Scheid, F. Schulz-Rojahn, F. Schwandt, V. Schwarz, W. Scobel, H.-J. Trelle, K. Ulbrich, E. Weise, A. Wellinghausen, K. Woller, R. Ziegler

### **Pygmy Dipole Strength Close to Particle-Separation Energies - the Case of the Mo Isotopes**

Eur. Phys. J. A 27 (2006) s01, 171

**Rusev, G., E. Grosse, M. Erhard, A.R. Junghans, K. Kosev, K.D. Schilling, R. Schwengner, A. Wagner**

### **Systematics of Magnetic Dipole Strength in the Stable Even-Mass Mo Isotopes**

Phys. Rev. C 73 (2006) 044308

**Rusev, G., R. Schwengner, F. Döna, M. Erhard, S. Frauendorf, E. Grosse, A.R. Junghans, L. Käubler, K. Kosev, L.K. Kostov, S. Mallion, K.D. Schilling, A. Wagner, H. von Garrel, U. Kneissl, C. Kohstall, M. Kreutz, H.H. Pitz, M. Scheck, F. Stedile, P. von Brentano, J. Jolie, A. Linnemann, N. Pietralla, V. Werner,**

### **In-Medium Effects on Phase Space Distributions of Antikaons Measured in Proton-Nucleus Collisions**

Phys. Rev. Lett. 96 (2006) 072301

**Scheinast, W., I. Böttcher, M. Debowski, F. Dohrmann, A. Förster, E. Grosse, P. Koczoń, B. Kohlmeyer, F. Laue, M. Menzel, L. Naumann, E. Schwab, P. Senger, Y. Shin, H. Ströbele, C. Sturm, G. Surówka, F. Uhlig, A. Wagner, W. Waluś, B. Kämpfer, H.W. Barz**

### **Low-Energy Cross Section of the <sup>7</sup>Be(p,γ)<sup>8</sup>B Solar Fusion Reaction from Coulomb Dissociation of <sup>8</sup>B**

Phys. Rev. C 73 (2006) 015806

Schümann, F., S. Typel, F. Hammache, K. Sümmerer, F. Uhlig, I. Böttcher, D. Cortina, A. Förster, M. Gai, H. Geissel, U. Greife, **E. Grosse**, N. Iwasa, P. Koczoń, B. Kohlmeyer, R. Kulessa, H. Kumagai, N. Kurz, M. Menzel, T. Motobayashi, H. Oeschler, A. Ozawa, M. Płoskoń, W. Prokopowicz, E. Schwab, P. Senger, F. Strieder, C. Sturm, Zhi-Yu Sun, G. Surówka, **A. Wagner**, W. Waluś

### **Quadrupole moment of the 8<sup>+</sup> yrast state in <sup>84</sup>Kr**

Phys. Rev. C 74 (2006) 034309

**Schwengner, R., D.L. Balabanski, G. Neyens, N. Benouaret, D. Borremans, N. Coulier, M. de Rydt, G.**

Georgiev, S. Mallion, G. Rainovski, **G. Rusev**, S. Teughels, K. Vyvey

**Dipole-strength distributions up to the particle-separation energies and photodissociation of Mo isotopes**

Nucl. Phys. A (2007) in print

**Schwengner, R.**, N. Benouaret, **R. Beyer**, **F. Dönau**, **M. Erhard**, **S. Frauendorf**, **E. Grosse**, **A.R. Junghans**, **J. Klug**, **K. Kosev**, **C. Nair**, N. Nankov, **G. Rusev**, **K.D. Schilling**, **A. Wagner**

**Dipole response of  $^{88}\text{Sr}$  up to the neutron-separation energy**

Phys. Rev. C (2007) submitted

**Schwengner, R.**, **G. Rusev**, N. Benouaret, **R. Beyer**, **M. Erhard**, **E. Grosse**, **A.R. Junghans**, **J. Klug**, **K. Kosev**, L. Kostov, **C. Nair**, N. Nankov, **K.D. Schilling**, **A. Wagner**

**A Method for System Matrix Construction and Processing for Reconstruction of In-Beam PET Data**

IEEE Transactions on Nucl. Science (2007) submitted

**Shakirin, G.**, **P. Crespo**, **W. Enhardt**

**Investigating the accuracy of the FLUKA code for transport of therapeutic ion beams in matter**

Phys. Med. Biol. 51 (2006) 4385

Sommerer, F., K. Parodi, A. Ferrari, K. Poljanc, **W. Enhardt**, H. Aiginger

**Light-Ion Production in the Interaction of 96 MeV Neutrons with Oxygen**

Phys. Rev. C 73 (2006) 034611

Tippawan, U., S. Pomp, A. Atac, B. Bergenwall, J. Blomgren, S. Dangtip, A. Hildebrand, C. Johansson, **J. Klug**, P. Mermod, L. Nilsson, M. Österlund, N. Olsson, A. Prokofiev, P. Nadel-Turonski, V. Corcalciuc, A. Koning

**$\Theta^+$  formation in Inclusive  $\gamma D \rightarrow pK^- X$**

Phys. Rev. C 74 (2006) 055206

Titov, A. I., **B. Kämpfer**, S. Date, Y. Ohashi

**Electromagnetic Probes of Strongly Interacting Matter: Probes of Chiral Symmetry Restoration?**

Heavy Ion Phys. 26 (2006) 35

**Thomas, R.**, K. Gallmeister, **S. Zschocke**, **B. Kämpfer**

**Transition Probabilities in  $^{134}\text{Pr}$ : A Test for Chirality in Nuclear Systems**

Phys. Rev. Lett. 96 (2006) 052501

Tonev, D., G. de Angelis, P. Petkov, A. Dewald, S. Brant, **S. Frauendorf**, D.L. Balabanski, P. Pejovic, D. Bazzacco, P. Bednarczyk, F. Camera, A. Fitzler, A. Gadea, S. Lenzi, S. Lunardi, N. Marginean, O. Möller, D.R. Napoli, A. Paleni, C.M. Petrache, G. Prete, K.O. Zell, Y.H. Zhang, Jing-ye Zhang, Q. Zhong, D. Curien

### **Lifetime measurements in Pr-134 and chirality in nuclei**

Int. J. Mod. Phys., E-Nucl. Phys. 15 (2006) 1531

Tonev, D., P. Petkov, D.L. Balabanski, G. De Angelis, A. Gadea, D.R. Napoli, N. Marginean, A. Dewald, P. Pejovic, A. Fitzler, O. Moeller, K.O. Zell, S. Brant, **S. Frauendorf**, D. Bazzacco, S. Lenzi, S. Lunardi, P. Bednarczyk, D. Curien, C. Petrache, Q. Zhong, Y.H. Zhang, Jing-Ye Zhang

### **Planar channeling radiation from electrons in quartz**

Europhys. Lett. (2007) submitted

**Wagner, W., B. Azadegan**, L.Sh. Grigoryan, **J. Pawelke**

### **Photon scattering experiments on the quasistable odd-odd mass nucleus $^{176}\text{Lu}$**

Phys. Rev. C 75 (2007) 034301

Walter, S. F. Stedile, J.J. Carroll, C. Fransen, G. Friessner, N. Hollmann, H. von Garrel, J. Jolie, O. Karg, F. Käppeler, U. Kneissl, C. Kohstall, P. von Neumann-Cosel, A. Linnemann, D. Mücher, N. Pietralla, H.H. Pitz, G. Rusev, M. Scheck, C. Scholl, **R. Schwengner**, V. Werner, K. Wisshak

### **Synthesis and Biological Evaluation of a New Type of $^{99m}\text{Tc}$ -Labeled Fatty Acid for Myocardial Metabolism Imaging**

Bioconjugate Chemistry 1 (2007) 216

Walther, M., C. Jung, R. Bergmann, J. Pietzsch, K. Rode, **K. Fahmy**, P. Mirtschink, S. Stehr, A. Heintz, G. Wunderlich, W. Kraus, H.-J. Pietzsch, J. Kropp, A. Deussen, H. Spies

### **Status quo of the Dresden High Magnetic Field Laboratory**

J. Phys.: Conf. Series 51 (2006) 619

Wosnitza, J., A.D. Bianci, T. Herrmannsdörfer, **R. Wünsch**, S. Zherlitsyn, S. Zvyagin

## **Proceedings and Reports**

Atanasova, L., D.L. Balabanski, M. Hass, D. Bazzacco, F. Becker, P. Bednarczyk, G. Benzoni, N. Blasi, A. Blazhev, A. Bracco, C. Brandau, L. Caceres, F. Camera, S.K. Chamoli, F.C.L. Crespi, P. Detistov, P. Doornenbal, C. Fahlander, E. Farnea, G. Georgiev, J. Gerl, K. Gladnishki, M. Górska, H. Grawe, J. Grebosz, R. Hoischen, G. Ilie, M. Ionescu-Bujor, A. Iordachescu, A. Jungclaus, G. Lo Bianco, M. Kmiecik, I. Kojouharov, N. Kurz, S. Lakshmi, R. Lozeva, A. Maj, D. Montanari, G. Neyens, M. Pfützner, S. Pietri, Zs. Podolyak, W. Prokopowicz, D. Rudolph, **G. Rusev**, T. R. Saito, A. Saltarelli, H. Schaffner, **R. Schwengner**, G. Simpson, S. Tashenov, J.J. Valiente-Dobón, N. Vermeulen, J. Walker, E. Werner-Malento, O. Wieland, H.J. Wollersheim, *g*-factor measurements at RISING: the case of  $^{127}\text{Sn}$

Proc. of the XXV Int. WS on Nuclear Theory, Rila Mountains, Bulgaria, 2006, p. 161

**Azadegan, B., W. Wagner, J. Pawelke**, L.Sh. Grigoryan

Planar channeling radiation from electrons in quartz

"Channeling 2006", Int. Conf. on Charged and Neutral Particles Channeling Phenomena, 2006, Frascati (Rome), Italy, S.B. Dabagov (Ed.), Proc. SPIE, 2007, Bellingham, USA

**Bluhm, M., B. Kämpfer, R. Schulze, D. Seipt**  
Isentropic equation of state of two-flavour QCD in a quasi-particle model  
Int. WS on Hot and Dense Matter in Relativistic Heavy Ion Collisions, 2006, Budapest, Hungary

**Bluhm, M., B. Kämpfer**  
Quasi-particle perspective on critical end-point  
Critical Point and Onset of Deconfinement, 2006, Florence, Italy

**Bluhm, M., R. Schulze, D. Seipt, B. Kämpfer**  
Quasi-Particle Perspective on Equation of State  
Quark Confinement and Hadron Spectrum VII, 2006, Ponta Delgada Acores, Portugal

**Erhard, M., C. Nair, R. Beyer, E. Grosse, A.R. Junghans, J. Klug, K. Kosev, N. Nankov, G. Rusev, K.D. Schilling, R. Schwengner, A. Wagner**  
Electromagnetic excitations in nuclei: from photon scattering to photodisintegration  
Int. Symposium on Nuclear Astrophysics - Nuclei in the Cosmos - IX , CERN, 2006, Geneva, Schweiz, Trieste:  
POS Proc. of Science, ISSN 1824-8039, PoS(NIC-IX) 056

Freitag, M., R. Schlenck, **W. Seidel**, U. Willkommen, **R. Wunsch**, B. Wustmann  
The partial waveguide resonator of the U100-FEL at FZ Rossendorf  
Proc. 28th Int. Free Electron Laser Conf., 2006, Berlin, Deutschland

Gensch, M., J.S. Lee, K. Hinrichs, N. Esser, **W. Seidel**, A. Röseler, U. Schade  
Single Shot Infrared Ellipsometry with a Free Electron Laser and its Potential Applications  
Proc of 31st Int. Conf. on Infrared and Millimeter Waves and 14th Int. Conf. on Terahertz Electronics, 2006,  
Shanghai, China, IRMMW-THz 2006, 1-4244-0400-2, 416-416

Hammache, F., D. Galaviz, K. Sümmerer, S. Typel, F. Attallah, M. Caamano, A. Coc, D. Cortina, H. Geissel,  
M. Hellström, N. Iwasa, J. Kiener, P. Coczon, B. Kohlmeyer, E. Schwab, K. Schwarz, F. Schümann, P. Senger,  
O. Sorlin, V. Tatischeff, J. P. Thibaud, F. Uhlig, **A. Wagner**, A. Walus  
Cross section measurements of the Big Bang nucleosynthesis reaction  $D(\alpha, \gamma)^6\text{Li}$  by Coulomb dissociation of  $^6\text{Li}$   
Proc. of the Int. Conf. on Frontiers in Nuclear Structure, Astrophysics and Reactions, Kos, Greece, 2005,  
American Institute of Physics, CP831 (2006) 21

**Klug, J., E. Altstadt, C. Beckert, R. Beyer, H. Freiesleben, V. Galindo, M. Greschner, E. Grosse, A.R. Junghans, D. Légrády, B. Naumann, K. Noack, K.D. Schilling, R. Schlenk, S. Schneider, K. Seidel, A. Wagner, F.-P. Weiss**  
Development of a neutron time-of-flight source at the ELBE accelerator  
Int. WS on Fast Neutron Detectors and Applications, Cape Town, South Africa, 2006, Proc. of Science, PoS (FNDA2006) 15

**Klug, J., E. Altstadt, C. Beckert, R. Beyer, H. Freiesleben, M. Greschner, E. Grosse, A.R. Junghans, B. Naumann, K. Noack, S. Schneider, K. Seidel, A. Wagner, F.-P. Weiss**  
Development of a neutron time-of-flight source at the ELBE accelerator  
Int. WS on Fast Neutron Detectors and Applications, 2005, Pavia, Italy J. Phys.: Conf. Ser. 41 (2006) 296

**Lehnert, A., E. Beyreuther, W. Enghardt, E. Lessmann, J. Pawelke, W. Wagner, W. Dörr**  
RBE of soft X-rays for chromosomal damage determined for two human mammary epithelial cell lines  
35th Annual Meeting of the Eur. Radiation Res. Society, 2006, Kiev, Ukraine, Book of Abstracts, p. 32

Lehnert, U., P. Michel, **W. Seidel**, J. Teichert, **R. Wünsch**  
Laser Gain and Intra-cavity Losses of the ELBE Mid-IR FEL  
Proc of 28th Free Electron Laser Conf. 2006, Berlin/Rossendorf, Germany

Michel, P., H. Buettig, F.G. Gabriel, M. Helm, U. Lehnert, Ch. Schneider, R. Schurig, **W. Seidel**, D. Stehr,  
J. Teichert, S. Winnerl, **R. Wünsch**  
The Rossendorf IR-FEL ELBE  
Proc. of the 28th Free Electron Laser Conf. 2006, Berlin, Germany

Neyens, G., L. Atanasova, D.L. Balabanski, F. Becker, P. Bednarczyk, L. Caceres, P. Doornenbal, J. Gerl,  
M. Górská, J. Grebosz, M. Hass, G. Ilie, N. Kurz, I. Kojouharov, R. Lozeva, A. Maj, M. Pfützner, S. Pietri,  
Zs. Podolyak, W. Prokopowicz, T.R. Saitoh, H. Schaffner, G. Simpson, N. Vermeulen, E. Werner-Malento,  
J. Walker, H.J. Wollersheim, D. Bazzacco, G. Benzoni, A. Blazhev, N. Blasi, A. Bracco, C. Brandau, F.  
Camera, S.K. Chamoli, S. Chmel, F.C.L. Crespi, J.M. Daugas, M. De Rydt, P. Detistov, C. Fahlander, E.  
Farnea, G. Georgiev, K. Gladnishki, R. Hoischen, M. Ionescu-Bujor, A. Iordachescu, J. Jolie, A. Jungclaus, M.  
Kmicik, A. Krasznahorkay, R. Kulesa, S. Lakshmi, G. Lo Bianco, S. Mallion, K. Mazurek, W. Meczynski,  
D. Montanari, S. Myalsky, O. Perru, D. Rudolph, **G. Rusev**, A. Saltarelli, **R. Schwengner**, J. Styczen, K.  
Turzó, J.J. Valiente-Dobón, O. Wieland, M. Zieblinski,  
*g*-factor measurements on relativistic isomeric beams produced by fragmentation and U-fission: the *g*-Rising  
project at GSI  
Proc. of the Zakopane Conf. on Nuclear Physics, Poland 2006, in print

Preusche, S., F. Wüst, S. Seifert, **K.D. Schilling**, R. Wenzel, N. Dohn, J. Steinbach  
Production of  $^{86}\text{Y}$  and  $^{56}\text{Co}$  at the Rossendorf CYCLONE 18/9  
Proc of 11th Int. WS on Targetry and Target Chemistry, p. 86, 2006, Cambridge, Great Britain

**Schwengner, R., G. Rusev, F. Dönau, M. Erhard, E. Grosse, A.R. Junghans, K. Kosev, C. Nair,**  
**N. Nankov, K.D. Schilling, A. Wagner**  
Nuclear-structure and nuclear-astrophysics experiments at the superconducting electron accelerator ELBE  
XVI Int. School on Nuclear Physics, Neutron Physics and Nuclear Energy, 2005, INRNE Sofia, Varna, Bulgaria,  
in print

**Shakirin, G., P. Crespo, W. Enghardt**  
A Method for System Matrix Construction and Processing for Reconstruction of In-Beam PET Data  
Nucl. Science Symposium and Medical Imaging Conf., IEEE, 2006, San Diego, USA, in print

**Seidel, W., S. Friebel, R. Jainsch, M. Justus, K.-W. Leege, D. Pröhl, D. Stehr, H. Weigelt, S. Winnerl, D.**  
**Wohlfarth**  
Remote Controlled IR-Diagnostic Station for the FEL at Rossendorf  
28th Int. Free Electron Laser Conf. 2006, Berlin/Rossendorf, Deutschland, JACoW, FEL06

**Thomas, R., S. Zschocke, T. Hilger, B. Kämpfer**  
Hunting Medium Modifications of the Chiral Condensate  
44th Int. Winter Meeting on Nuclear Physics, 2006, Bormio, Italy

**Thomas, R., B. Kämpfer**

Impact of Four-Quark Condensates on In-Medium Effects of Hadrons

Quark Confinement and the Hadron Spectrum VII, 02.-07.09.2006, Ponta Delgado, Azores, Portugal

**A. Wagner, M. Erhard, E. Grosse, A.R. Junghans, J. Klug, K. Kosev, C. Nair, N. Nankov, G. Rusev, K.D. Schilling, R. Schwengner**

Photodissociation experiments for p-process nuclei

Proc. of the Int. Conf. on Frontiers in Nuclear Structure, Astrophysics and Reactions, 2005, Kos, Greece, American Institute of Physics, CP831 (2006) 16

Winnerl, S., D. Stehr, O. Drachenko, H. Schneider, M. Helm, **W. Seidel**, P. Michel, S. Schneider, J. Seidel, S. Grafström, L.-M. Eng, T. Roch, G. Strasser, T. Maier, M. Walther

FELBE Free-Electron Laser: Status and Application for Time Resolved Spectroscopy Experiments

Joint 31th. Int. Conf. on Infrared and Millimeter Waves and 14th. Int. Conf. on Terahertz Electronics, 2006, Shanghai, China

## Posters at Conferences

Crevenna, A., **S. Madathil, K. Fahmy**, J. Howard

Structural Properties of the Kinesin 'Coiled-coil Break' Region

Annual Meeting of the German Biophysical Society, 2006, Mainz, Germany

Gensch, M., J.S. Lee, K. Hinrichs, N. Esser, **W. Seidel**, A. Röseler, U. Schade

Single Shot Infrared Ellipsometry with a Free Electron Laser and its Potential Applications

Joint 31st International Conference on Infrared and Millimeter Waves and 14th International Conference on Terahertz Electronics, 2006, Shanghai, China

Lehnert, U., P. Michel, **W. Seidel**, J. Teichert, **R. Wunsch**

Laser Gain and Intra-cavity Losses of the ELBE Mid-IR FEL

28th Free Electron Laser Conference 2006, Berlin, Germany

**Madathil, S., K. Fahmy**

Proton-Regulated Side Chain Lipid Interactions in Conformational Switching by Transmembrane G-Protein-Coupled Receptors

Int. Workshop on Dynamics of Artificial and Biological Membranes, 2006, Gomadingen, Germany

**Pönisch, F.**

Properties of unflattened photon beams shaped by a multi leaf collimator

AAPM Konferenz, 2006, Orlando, FL, USA

Pollmann, K., M. Merroun, J. Raff, **K. Fahmy**, C. Hennig, S. Selenska-Pobell, T. Hermannsdörfer  
Synthesis of metal nanoparticles using bacterial surface layers (S-layers) as biological templates  
E-MRS 2006 Spring Meeting, 2006, Nice, France

**Shakirin, G., P. Crespo, W. Enhardt**

A Method for System Matrix Construction and Processing for Reconstruction of In-Beam PET Data  
Nuclear Science Symposium and Medical Imaging Conference, 2006, San Diego, USA

**Seidel, W.**, S. Friebel, R. Jainsch, M. Justus, K.W. Leege, D. Pröhl, D. Stehr, H. Weigelt, S. Winnerl, **D. Wohlfarth**

Remote Controlled IR-Diagnostic Station for the FEL at Rossendorf  
28th Int. Free Electron Laser Conference 2006, Berlin, Germany

Freitag, M., R. Schlenck, **W. Seidel**, U. Willkommen, **E. Wünsch**, B. Wustmann

The partial waveguide resonator of the U100-FEL at FZ Rossendorf  
28th Int. Free Electron Laser Conference 2006, Berlin, Germany

## Talks at Conferences and other Institutes

**Azadegan, B., W. Wagner, J. Pawelke, L.Sh. Grigoryan**

Planar channeling radiation from electrons in quartz

"Channeling 2006", Int. Conf. on Charged and Neutral Particles Channeling Phenomena, 2006, Frascati (Rome), Italy, S.B. Dabagov (Ed.), Proc. SPIE, 2007, Bellingham, USA

**Bemmerer, D.**

The Big Bang, our Sun and the  ${}^3\text{He}(\alpha, \gamma){}^7\text{Be}$  Reaction

Seminar Nukleare Astrophysik, TU Berlin, Oct. 30, 2006, Berlin, Germany

**Beyer, R.**

Detection of neutrons with kinetic energy from 24 keV to 1.2 MeV with long plastic scintillators

Workshop on neutron detectors for FAIR and other facilities, July 13-14, 2006, CIEMAT, Madrid, Spain

**Beyreuther, E.**

Relative biological effectiveness of X-rays

Seminar der AG Umweltbiologie, TU Bergakademie Freiberg, Oct. 05, 2006, Freiberg, Germany

**Bluhm, M.**

Lattice QCD Based Equation of State - within a Quasi-Particle Perspective

DPG Tagung, March 24, 2006, München, Germany

**Bluhm, M.**

Lattice QCD Based Equation of State - within a Quasi-Particle Perspective

Int. Workshop on Hot and Dense Matter in Relativistic Heavy Ion Collisions, Apr. 9, 2006, Budapest, Hungary

**Bluhm, M.**

QCD Equation of State in a Quasi-Particle Perspective

Workshop for Young Scientists on the Physics of Ultrarelativistic Nucleus-Nucleus Collisions, Hot Quarks 2006, May 15-20, 2006, Villasimius, Sardinien, Italy

**Bluhm, M.**

Quasi-Particle Model for the EOS - critical point imaginary  $\mu$

Workshop des Virtuellen Inst., Oct. 16, 2006, Rathen, Germany

**Crespo, P., M. Erhard**

Strahlungsdetektoren für astrophysikalische Messungen

Lehrerfortbildung 2005/2006 - Astrophysik, Febr. 17, 2006, FZD, Dresden, Germany

**Crespo, P.**

Monitoring Carbon Ion Tumor Therapy with In-Beam Positron Emission Tomography: Status and Trends

Seminar on Molecular Life Sciences and Imaging, Dr. K. Fahmy, Febr. 28, 2006, FZD, Dresden, Germany

**Crespo, P., W. Enghardt, F. Fiedler, D. Möckel, J. Pawelke, G. Shakirin**

In-beam PET für die Qualitätssicherung der Ionentherapie - Möglichkeiten und Grenzen

DPG Frühjahrstagung, DPG, March 13-15, 2006, Heidelberg, Germany

**Crespo, P., T. Barthel, M. Kapusta, K. Heide, M. Moszyński, J. Pawelke, W. Enghardt**

New developments in detectors for in-beam PET

DPG Frühjahrstagung, DPG, March 13-15, 2006, Heidelberg, Germany

**Dohrmann, F., R. Kotte, L. Naumann**

Testing sub-100ps RPC detectors at ELBE

7th CBM collaboration meeting, GSI, Febr. 28- March 3, 2006, Darmstadt, Germany



**Dohrmann, F.**, invited lecture

Electroproduction of light hypernuclei on Helium

PANDA collaboration meeting Dresden, Inst. f. Kern- u. Teilchenphysik, TU Dresden, March 9-10, 2006, Dresden, Germany

**Enhardt, W.**, invited lecture

In-beam PET for radiotherapy monitoring

Conf. on Clinical and Experimental Research in Radiation Oncology, Jan. 24, 2006, Les Menuires, France

**Enhardt, W.**

WP1: Development of PET/CT for oncology

BioCare Meeting, EU FP6 Integrated Project Biocare, May 8-9, 2006, Dresden, Germany

**Enhardt, W.**, invited lecture

Der postgraduale Masterstudiengang "Medical Radiation Sciences" in Dresden

XVIII. Winterschule der DGMP. March 14, 2006, Pichel, Austria

**Enhardt, W.**, invited lecture

Visionen der Medizinphysik

12. Jahrestagung der Deutschen Gesellschaft für Radioonkologie (DEGRO), May 25, 2006, Dresden, Germany

**Enhardt, W.**, invited lecture

Der postgraduale Masterstudiengang "Medical Radiation Sciences" und die Ausbildung von Medizinphysik-Experten in Dresden

12. Jahrestagung der Deutschen Gesellschaft für Radioonkologie (DEGRO), May 27, 2006, Dresden, Germany

**Enhardt, W.**, invited lecture

In-beam PET in der Hadronentherapie

37. Jahrestagung der Deutschen Gesellschaft für Medizinische Physik, Sept. 21, 2006, Regensburg, Germany

**Enhardt, W.**, invited lecture

Präzisionsbestrahlung auf der Basis biologischer Daten

5. Leipziger Forum Computer Assisted Surgery, Jan. 7, 2006, Leipzig, Germany

**Enhardt, W.**, invited lecture

Der weiterbildende Masterstudiengang "Medical Radiation Sciences" an der TU Dresden

Techn. Fachhochschule Berlin, Dec. 12, 2006, Berlin, Germany

**Fahmy, K.**

Molecular switching in GPCRs: FTIR- and Fluorescence-Spectroscopic Identification of Functional Modules in Rhodopsin

Inst. of Technology Madras, Dec 7, 2006, Chennai, India

**Fahmy, K.**

DNA-Backbone Dynamics Studied by Time-Resolved Infrared Spectroscopy

Inst. of Education and Research, Dec. 12, 2006, Pune, India

**Fiedler, F.**, invited lecture

Anwendung von PET für die Kontrolle der Tumorthherapie mit leichten Ionen

Seminar SF4, Hahn-Meitner-Institut, Apr. 25, 2006, Berlin, Germany

**Fiedler, F.**, M. Sellesk, W. Enhardt

Der Washout der Positronenemitter bei in-beam PET

DPG Frühjahrstagung, DPG, March 13-15, 2006, Heidelberg, Germany

**Fiedler, F.**

Simulation of positron distributions for carbon and proton beams

Scientific Workshop - For In-Beam PET, May 9-10, 2006, Dresden, Germany

**Frauendorf, S.**, invited lecture  
Dynamical and static chirality of rotating triaxial nuclei  
Contemporary Frontiers in Nuclear Structure, American Chemical Society Meeting & Exposition, March 26-30, 2006, Atlanta, USA

**Frauendorf, S.**, invited lecture  
A closeup of the spinning nucleus  
Nucl. Struct. '06, Conf. on nuclei at the limit, Pollard Technology Conf. Center, July 24-28, 2006, Oak Ridge, Tennessee, USA

**Frauendorf, S.**, invited lecture  
Emergent phenomena in mesoscopic nuclear systems  
Key note talk, Mini-symposium on Nuclei as Mesoscopic Systems, The Annual Meeting of the Div. of Nucl. Phys. of the American Phys. Society, Oct. 25-28, 2006 Nashville, USA

**Frauendorf, S.**  
Emergent phenomena in mesoscopic systems  
Colloquium, Nat. Superconducting Cyclotron Lab./Department of Phys., November 17, 2006, Michigan State University, USA

**Grosse, E.**  
Dipole strength below and above particle thresholds - new data and new ideas  
WS Nucl. Astrophys., Dec. 11, 2006, Brussels, Belgium

**Junghans, A.R.**, invited talk  
Photodissociation studies p-process nuclei at ELBE  
Astrophysics and Nuclear Structure, Int. Workshop XXXIV on Gross Properties of Nuclei and Nuclear Excitations, Jan. 15-21, 2006 Hirschegg, Austria

**Junghans, A.R.**  
Electromagnetic excitations in nuclei from photon scattering to photodissociation  
Seminar talk, March 14, 2006, Uni. Konan, Kobe, Japan

**Junghans, A.R.**  
Electromagnetic excitations in nuclei from photon scattering to photodissociation  
Int. Symp. on Nucl. Astrophysics - Nuclei in the Cosmos -IX, June 25-30, 2006, Cern, Switzerland

**Kämpfer, B.**  
Hunting medium modifications of the chiral condensate  
Int. Wintermeeting on Nuclear Physics, Jan. 20-Febr. 5, 2006, Bormio, Italy

**Kämpfer, B.**  
D mesons and the chiral condensate  
PANDA-Meeting, 2006, TU Dresden, Germany

**Kämpfer, B.**  
1. Electromagnetic probes of strongly interacting matter  
2. Medium modifications of hadrons: chiral condensate and more  
3. Exclusive virtual bremsstrahlung  
HADES-Meeting, Apr. 4-8, 2006, Dresden, Germany

**Kämpfer, B.**  
Quasi-particle model of QCD matter and a family of equations of state  
ECT\* Workshop, March 21-25, 2006, Trento, Italy

**Kämpfer, B.**

Physics of high baryon density, Presentation of the chapter "In-medium modifications of hadrons"  
ECT\* Workshop, May 5- June 2, 2006, Trento, Italy

**Kämpfer, B.**

Heavy ion reactions at ultrarelativistic energies from hot deconfined matter to hadronic freeze-out  
ECT\* Workshop, June 26- July 21, 2006, Trento, Italy

**Kämpfer, B.**

1. Impact of 4-quark condensates on in-medium effects of hadrons  
2. Quasi-particle perspective on equation of state and critical end point  
Quark Confinement and the Hadron Spectrum VII, Sept. 2-7, 2006, Ponta Delgado, Azores, Portugal

**Kämpfer, B.**

Dense and hot strongly interacting matter on the universe  
Seminar on IST, Sept. 12, 2006, Lissabon, Portugal

**Kämpfer, B.**

Interpretation of HADES data  
Virtual Institute (III): Dense Hadronic Matter and QCD Phase Transitions, Oct. 15-17, 2006, Rathen, Germany

**Kämpfer, B.**

Our interest on omega mesons  
OMEGA-Workshop, Oct. 19-20, 2006, FZD Dresden, Germany

**Kämpfer, B.**

Quasi-particle perspective on critical end point  
Critical point and onset of deconfinement, July 2-9, 2006, Florence, Italy

**Kämpfer, B.**

Dense and hot strongly interacting matter on the universe  
Seminar FSU Jena, Juni 2006, Jena, Germany

**Klug, J.**

Development of a neutron time-of-flight source at the ELBE accelerator  
International Workshop on Fast Neutron Detectors and Applications, University of Cape Town, South Africa,  
Apr. 3-6, 2006, Cape Town, South Africa

**Kotte, R.**

$\phi$  mesons in C + C collisions at 2 AGeV  
Hades collaboration meeting, GSI, Oct 25-28, 2006, Darmstadt, Germany

**Lehnert, A.** E. Beyreuther, W. Enghardt, E. Lessmann, J. Pawelke, W. Wagner, W. Dörr  
RBE of soft X-rays for chromosomal damage determined for two human mammary epithelial cell lines  
The 35th Annual Meeting of the European Radiation Research Society, European Radiation Research Society,  
June 22-25, 2006, Kiev, Ukraine

**Möckel, D.**, J. Pawelke, M. Sommer, E. Will, W. Enghardt  
Erste Experimente zu in-beam PET mit harter Photonenstrahlung  
DPG-Frühjahrstagung, DPG, March 13-15, 2006, Heidelberg, Germany

**Möckel, D.**

PET and photon therapy  
Scientific Workshop for In-Beam PET, May 9-10, 2006, Dresden, Germany

**Rusev, G.**

Dipole-strength distributions below the giant dipole resonance in  $^{92}\text{Mo}$ ,  $^{98}\text{Mo}$  and  $^{100}\text{Mo}$   
Institut für Kern und Teilchenphysik, Oct. 19, 2006, TU Dresden, Germany

**Schwengner, R.**

Electromagnetic excitations in nuclei: from photon scattering to photodisintegration  
Frühjahrstagung der Deutschen Physikalischen Gesellschaft, March 20- 24, 2006, München, Germany

**Schwengner, R.**

Dipole-strength distributions up to the particle-separation energies and photodissociation of Mo isotopes  
2nd Int Conf. on Collective Motion in Nuclei Under Extreme Conditions (COMEX2), June 20-23, 2006, Sankt Goar, Germany

**Schwengner, R.**, invited lecture

Photon-scattering and photoactivation experiments at the electron accelerator ELBE  
Workshop AP.G.RA.D(E) 2006, Applications of Gamma-Ray Diffraction, Institut Laue-Langevin, Oct. 26-28, 2006, Grenoble, France

**Schwengner, R.**, invited lecture

Photon-scattering and photoactivation experiments at the electron accelerator ELBE  
Departamento de Fisica Teorica, Universidad Autonoma de Madrid, Nov. 6, 2006, Madrid, Spain

**Sczapan, M**

FEL-induced Reflectivity changes in thin DNA-Films  
Inst. für neue Materialien, June 12, 2006, Saarbrücken, Germany

**Seidel, W.**

First lasing at the U100-FEL  
28th Int. Free Electron Laser Conf., Aug. 27- Sept. 1, 2006, Berlin/Rossendorf, Germany

**Shakirin, G.**

Reconstruction and Corrections in In-Beam PET  
Scientific Workshop - For In-Beam PET, May 9-10, 2006, Dresden, Germany

**Thomas, R.**

Omega, Nucleon, D Spectroscopy: QCD Sum Rules in Vakuum and Nuclear Matter  
37. Arbeitstreffen "Kernphysik", March 8, 2006, Schleching, Germany

**Thomas, R.**

In-Medium Change of Four-Quark Condensates: QCD Sum Rules Evaluation for Omega-Meson and Nucleon  
44. Int. Universitätswochen für Theoretische Physik, March 12, 2006, Schladming, Germany

**Thomas, R.**

In-Medium Change of Four-Quark Condensates: QCD Sum Rules Evaluation for Omega-Meson and Nucleon  
Frühjahrstagung der Deutschen Physikalischen Gesellschaft, March 22, 2006, München, Germany

**Thomas, R.**

In-Medium Properties of Omega-Meson and Nucleon: QCD Sum Rules Approach and Rule of Four-Quark Condensates  
Virtual Institute Workshop III, Oct. 16, 2006, Rathen, Germany

**Wagner, A.**

Kerne und Sterne - Vom Urknall, der Entstehung der chemischen Elemente und Experimenten im FZR  
Lehrerfortbildung "Astrophysik", FZD, Febr. 17, 2006, Dresden, Germany

**Wagner, A.**

Experimental Facilities at ELBE

Seminar, Japan Synchrotron Radiation Research Institute (SPring8), March 17, 2006, Sayo-Gun, Japan

**Wagner, A.**, invited lecture

Dipolstärke in Kernen und der Kernphotoeffekt im Kosmos

Seminar des SFB 634, TU Darmstadt, May 4, 2006, Darmstadt, Germany

**Wagner, A.**

Die Dipolstärke in Kernen und der Kernphotoeffekt im Kosmos

Physikalisches Kolloquium, TU Dresden, July 4, 2006, Dresden, Germany

**Wagner, A.**, invited lecture

Experiments with real photons for nuclear astrophysics

NuSTAR Seminar, GSI, Jan 24, 2007, Darmstadt, Germany

## Talks of Visitors

**Dr. Achenbach, P.**, Univ. Mainz:

Ein neuer Messplatz für die Kaonen- und Hyperkernproduktion an MAMI, Jan. 30, 2006

**Dr. Bemmerer, D.**, INFN Padova, Italy:

Nucleosynthesis studied deep underground at Gran Sasso, Italy, Nov. 29, 2006

**Dr. Finocchiaro, P.**, INFN LNS Catania, Italy:

Single photon sensor arrays and micro-optics, Nov. 7, 2006

**Prof. Fuchs, C.**, Univ. Tübingen:

Transport model interpretation of HADES data, Apr. 4, 2006

**Dr. Geithner, O.**, DKFZ, Heidelberg, Germany:

Monte Carlo Simulations for Heavy Ion Dosimetry, June 23, 2006

**Prof. Grigoryan, L.**, IAPP NAS, Armenia:

Channeling radiation influenced by ultrasound, Dec. 18, 2006

**Dr. Gupta, D.**, Variable Energy Cyclotron Centre, Kolkata, India:

Study of Reactions Induced by Radioactive Beams, Nov. 30, 2006

**Dr. Heerklotz, H.**, Biozentrum, Basel, Switzerland:

Microcalorimetric Investigations of membranes, July 14, 2006

**Prof. Lo Iudice, N.**, INFN Napoli, Italy:

New collective phenomena in spherical and deformed rotating nuclei, May 8, 2006

**Dr. Litvinova, E.**, Physics and Power Engineering Institute, Obninsk, Russia:

Covariant theory of particle vibrational coupling and its application to exotic nuclei, July 28, 2006

**Marta, M.**, INFN Milano, Italy:

Measurements of beam heating effect in a gas target through Rutherford scattering, Dec. 7, 2006

**Prof. Mazumdar, I.**, Tata Institute of Fundamental Research, Mumbai, India:

Shape Transitions in Hot Nuclei, June 26, 2006

**Dr. Molina, R.**, MPI for the Physics of Complex Systems Dresden, Univ. Complutense de Madrid:

Quantum chaos and  $1/f$  noise, Jan. 16, 2006

**Dr. Schrieder, G.**, TU Darmstadt:

Experimente zur Polarisierbarkeit des Nukleons und zum Protonenradius am S-Dalinac, June 12, 2006

**Prof. Weidenmüller, H.**, MPI Heidelberg:

Random Matrices and Chaos in Quantum Many-Body Systems, March 27, 2006

**Prof. Wolter, H.**, Univ. München:

The symmetry energy in nuclear structure and heavy ion collisions, Oct. 19, 2006

## Lecture Courses

**Enhardt, W.**

Biostatistik  
TU Dresden, WS 2005/2006

**Enhardt, W.**

Physik und Technologie der Nuklearmedizin  
TU Dresden, SS 2006

**Enhardt, W.**

Wechselwirkung von Strahlung mit Materie und Radioaktivität  
TU Dresden, WS 2006/2007

**Enhardt, W.**

Digitale Bildverarbeitung  
TU Dresden, WS 2006/2007

**Enhardt, W.**

Introduction to Biostatistics  
TU Dresden, WS 2006/2007

**Grosse, E.**

Beschleuniger und Detektoren  
TU Dresden, SS 2006

**Grosse, E., H. Freiesleben**

Institutseminare Inst. für Kern- und Teilchenphysik  
TU Dresden, WS 2005/2006, SS 2006

**Kämpfer, B.**

Kosmologie  
TU Dresden, SS 2006

**Kämpfer, B.**

Theorieseminar Kerne und Teilchen  
TU Dresden, WS 2005/2006, SS 2006, WS 2006/2007

**Kämpfer, B.**

Theoretische Mechanik  
TU Dresden, WS 2005/2006

**Kämpfer, B.**

Standardmodell der Teilchenphysik (Quantenfeldtheorie)  
TU Dresden, WS 2006/2007

**Pönisch, F.**

Dosimetrie für die Strahlentherapie  
TU Dresden, SS 2006

**Wagner, A.**

Nukleare Astrophysik  
TU Dresden, WS 2005/2006, WS 2006/2007

## Ph.D. Theses

### **Kaliopi Kanaki**

Study of  $\Lambda$  production in C + C collisions at 2 A GeV beam energy with the HADES spectrometer  
TU Dresden, Dec. 2006

### **Gencho Rusev**

Dipole-strength distributions below the giant dipole resonance in  $^{92}\text{Mo}$ ,  $^{98}\text{Mo}$  and  $^{100}\text{Mo}$   
TU Dresden, Jan. 2007 (submitted Aug. 2006)

### **Alexander Sadovsky**

Investigation of  $K^+$  meson production in C + C collisions at 2 A GeV with HADES  
TU Dresden, Dec. 2006

## Diploma Theses

### **Benjamin Banner**

Simulations of Dielectron Detection Capabilities of HADES at SIS100  
TU Dresden, Nov. 2006

### **Henry Schade**

Dead cone effect for charm  
TU Dresden, Oct. 2006

### **Nicos Stawrakakis**

Finite width effects in quasi-particle model  
Hochschule Merseburg, March 2007 (submitted Dec. 2006)

### **Holger Weigelt**

Weiterentwicklung und Realisierung der Diagnostik der IR-Strahlung am Frei-Elektronen-Laser  
Hochschule Mittweida (FH), March 2006



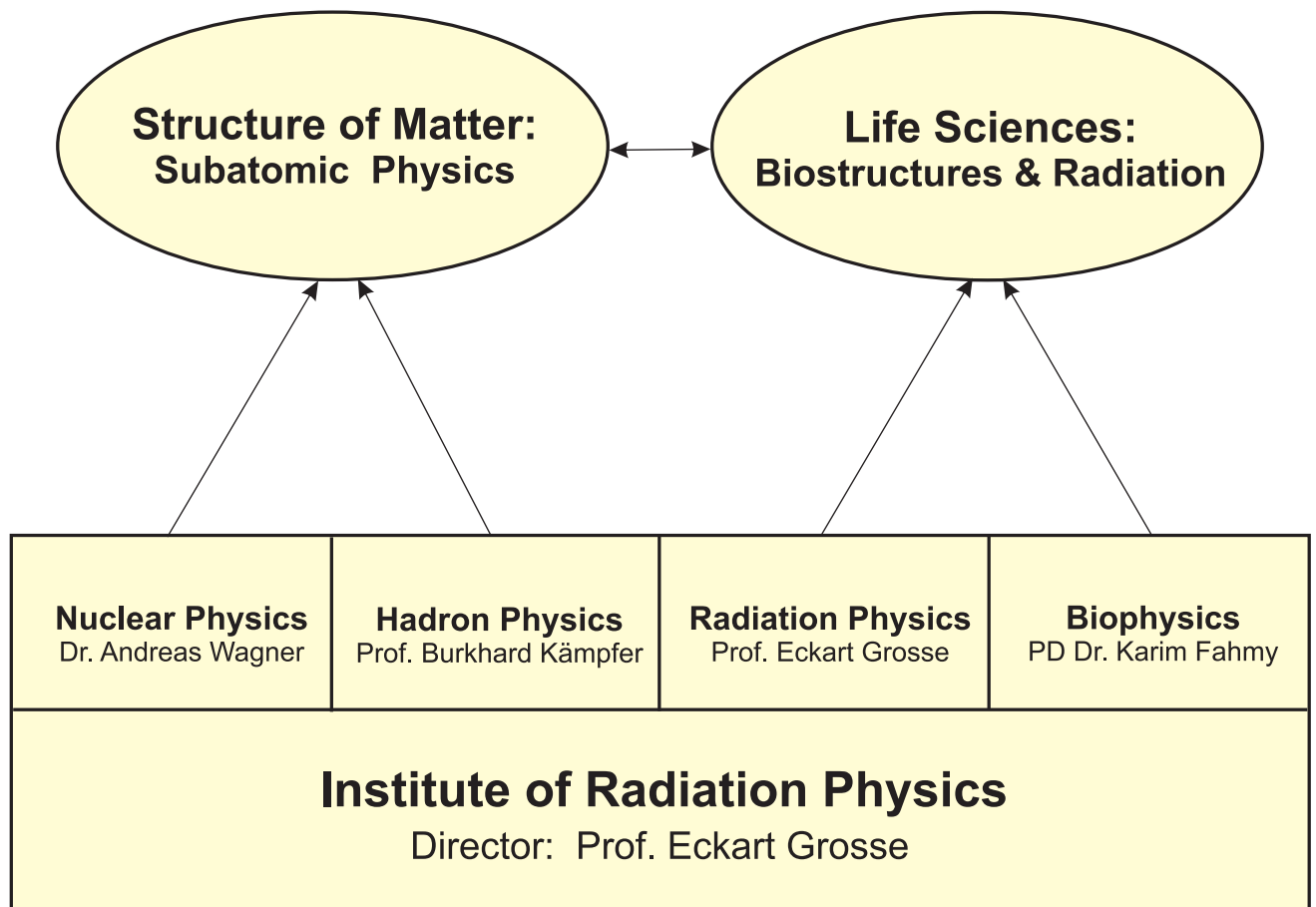
## Meetings organized by the IKH

Topic	Period	Number of Participants
<b>HADES</b> Collaborations Meeting XVI at Dresden	April 4 - 8, 2006	88
<b>Virtual Institute (III):</b> "Dense Hadronic Matter and QCD Phase Transitions", Rathen	Oct. 15 - 17, 2006	45
<b>OMEGA-Workshop</b> , FZD	Oct. 19 - 20, 2006	20

*Personnel*

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## Departments of the ISP



# Personnel of the Institute of Radiation Physics

Director: Prof. Dr. E. Grosse<sup>1</sup>

## Scientific Personnel

PD Dr. H.W. Barz	Prof. H. Kötzle	Dr. R. Schwengner
Dr. D. Bemmerer	Dr. R. Kotte	Dr. M. Sczegan
Dr. F. Dönau	Dr. A. Lehnert	Dr. W. Seidel
Dr. P. Crespo	Dr. H. Müller	Dr. A. Sytcheva
PD Dr. F. Dohrmann	Dr. N. Nankov	Dr. A. Wagner
Prof. Dr. W. Enghardt <sup>1</sup>	Dr. L. Naumann	Dr. W. Wagner
PD Dr. K. Fahmy	Dr. W. Neubert	Dr. R. Wunsch
Prof. Dr. S. Frauendorf <sup>2</sup>	Dr. J. Pawelke	Dipl. Phys. D. Wohlfarth
Dr. A. Junghans	Dr. F. Pönisch	Dr. J. Wüstenfeld
Prof. Dr. B. Kämpfer	Dr. O. Savchuk	Dr. S. Zschocke
Dr. J. Klug	Dr. K.D. Schilling	

## PhD Students

B. Azadegan	K. Kanaki	U. Reichelt
R. Beyer	H. Keshbak	G. Rusev
E. Beyreuther	K. Kosev	A. Sadovsky
M. Bluhm	S. Madathil	G. Shakirin
M. Erhard	D. Möckel	R. Thomas
F. Fiedler	C. Nair	P. Zhou

## Students

R. Apolle	V. Katsoulidou	D. Seipt <sup>3</sup>
B. Bannier <sup>3</sup>	M. Kempe	D. Stach
M. Fauth	T. Kluge	N. Stawrakakis <sup>3</sup>
R. Hannaske	A. Müller	T. Würschig <sup>3</sup>
T. Hilger	H. Schade <sup>3</sup>	K. Zeil
U. Just	R. Schulze <sup>3</sup>	

## Technical Personnel

J.U. Berlin	J. Hutsch	S. Schaller
M. Böse	K. Krüger	D. Schich
M. Boeck	M. Langer	C. Schneidereit
H. Gude	E. Lefsmann	W. Schulze
A. Hartmann	A. Liebezeit	A. Seifert
K. Heidel	M. Paul	M. Sobiella
L. Heinrich	J. Philipp	J. Steiner
R.R. Hensel	B. Rimarzig	U. Wolf

---

<sup>1</sup> also *TU Dresden*

<sup>2</sup> also *University of Notre-Dame, Indiana, USA*

<sup>3</sup> *Diploma Student*

## Guest Scientists

Barnaföldi, G.	KFKI Budapest, Hungary
Benouret, N.	Univ. Algier, Algerien
Dr. Guber, F.	Institute for Nuclear Research, Moskow, Russia
Prof. Grigoryan, L.	IAPP NAS Rep. of Armenia
Dr. Ivashkin, A.	Institute for Nuclear Research, Moskow, Russia
Dr. Kaptari, L.P.	JINR Dubna, Russia
Dr. Kostov, L.K.	Institute for Nuclear Research and Nuclear Energy, Sofia, Bulgaria
Lantukh, J.	Universität Orenburg, Russia
Prof. Pashkevich, S.	Universität Orenburg, Russia
Dr. Semak, A.	Institute for High Energy Physics, Protvino, Moskow, Russia
Prof. Titov, A.	JINR Dubna, Russia
Usenko, E.	Institute for Nuclear Research, Moskow, Russia
Dr. Wolf, G.	KFKI, RMKI, Budapest, Hungary
Dr. Zschocke, S.	BCPL Bergen, Norway
Zetenyi, M.	KFKI Budapest, Hungary

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