Scientific Activities

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

Publications[1]

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 $^{12}C + ^{12}C$ 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. Bokemeyer, J.L. Boyard, P. Braun-Munziger, 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. Kulessa, 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. Prokopovicz, 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. Strurm, M. Sudol, M. Suk, A. Taranenko, P. Tlusty, A. Toia, M. Traxler, H. Tsertos, D. Vassiliev, A. Vazquez, V. Wagner, W. Walus, M. Wisniovski, T. Wojcik, **J. Wüstenfeld**, Y. Zanevsky, K. Zeitelhack, D. Zoviec, P. Zumbruch

[1]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}C Irradiation Induced β^+-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 K$^+$ and of 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. Kohlmeyer, 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}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}He$(\alpha,\gamma)^7$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. Broggini, 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}Sn and ^{104}Sn

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

Karny, M., L. Batist, A. Banu, F. Becker, A. Blazhev, B.A. Brown, W. Brüchle, 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}Sn

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

Kavatsyuk, O., C. Mazzocchi, Z. Janas, A. Banu, L. Batist, F. Becker, A. Blazhev, W. Brüchle, 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

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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 β^+ 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

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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. Bielcik, 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. Enghardt**, 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. Kulessa, 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. Zumbruch

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. Tyminski, K. Wisniewski, **D. Wohlfarth**, Z. Xiao, H.S. Xu, I. Yushmanov, A. Zhilin

Multiple octupole-type band structures in ^{220}Th: Reflection-asymmetric tidal waves?

Phys. Rev. C 74 (2006) 044305

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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

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

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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

Enghardt, W., invited lecture
In-beam PET for radiotherapy monitoring
Conf. on Clinical and Experimental Research in Radiation Oncology, Jan. 24, 2006, Les Menuires, France

Enghardt, W.
WP1: Development of PET/CT for oncology
BioCare Meeting, EU FP6 Integrated Project Biocare, May 8-9, 2006, Dresden, Germany

Enghardt, W., invited lecture
Der postgraduale Masterstudiengang "Medical Radiation Sciences" in Dresden
XVIII. Winterschule der DGMP. March 14, 2006, Pichel, Austria

Enghardt, W., invited lecture
Visionen der Medizinphysik
12. Jahrestagung der Deutschen Gesellschaft für Radioonkologie (DEGRO), May 25, 2006, Dresden, Germany

Enghardt, 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

Enghardt, W., invited lecture
In-beam PET in der Hadronentherapie
37. Jahrestagung der Deutschen Gesellschaft für Medizinische Physik, Sept. 21, 2006, Regensburg, Germany

Enghardt, W., invited lecture
Präzisionsbestrahlung auf der Basis biologischer Daten
5. Leipziger Forum Computer Assisted Surgery, Jan. 7, 2006, Leipzig, Germany

Enghardt, 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-Spectroscopyic 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 Tumortherapie mit leichten Ionen
Seminar SF4, Hahn-Meitner-Institut, Apr. 25, 2006, Berlin, Germany

Fiedler, F., M. Sellesk, W. Enghardt
Der Washout der Positronenemitter bei in-beam PET
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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 photodissocaition
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 Trasitions, 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.
ϕ mesons in $\mathrm{C}+\mathrm{C}$ collisons at $2\,A$GeV
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 Radiatiton 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}Mo, ^{98}Mo and ^{100}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

Sczepan, 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 Insitute 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

Enghardt, W.
Biostatistik
TU Dresden, WS 2005/2006

Enghardt, W.
Physik und Technologie der Nuklearmedizin
TU Dresden, SS 2006

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

Enghardt, W.
Digitale Bildverarbeitung
TU Dresden, WS 2006/2007

Enghardt, W.
Introduction to Biostatistics
TU Dresden, WS 2006/2007

Grosse, E.
Beschleuniger und Detektoren
TU Dresden, SS 2006

Grosse, E., H. Freiesleben
Institutsseminare 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 Λ production in $\mathrm{C}+\mathrm{C}$ 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}Mo, ^{98}Mo and ^{100}Mo
TU Dresden, Jan. 2007 (submitted Aug. 2006)

Alexander Sadovsky
Investigation of K^{+}meson production in $\mathrm{C}+\mathrm{C}$ collisions at 2 A GeV with HADES
TU Dresden, Dec. 2006

Diploma Theses

Benjamin Bannier
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)

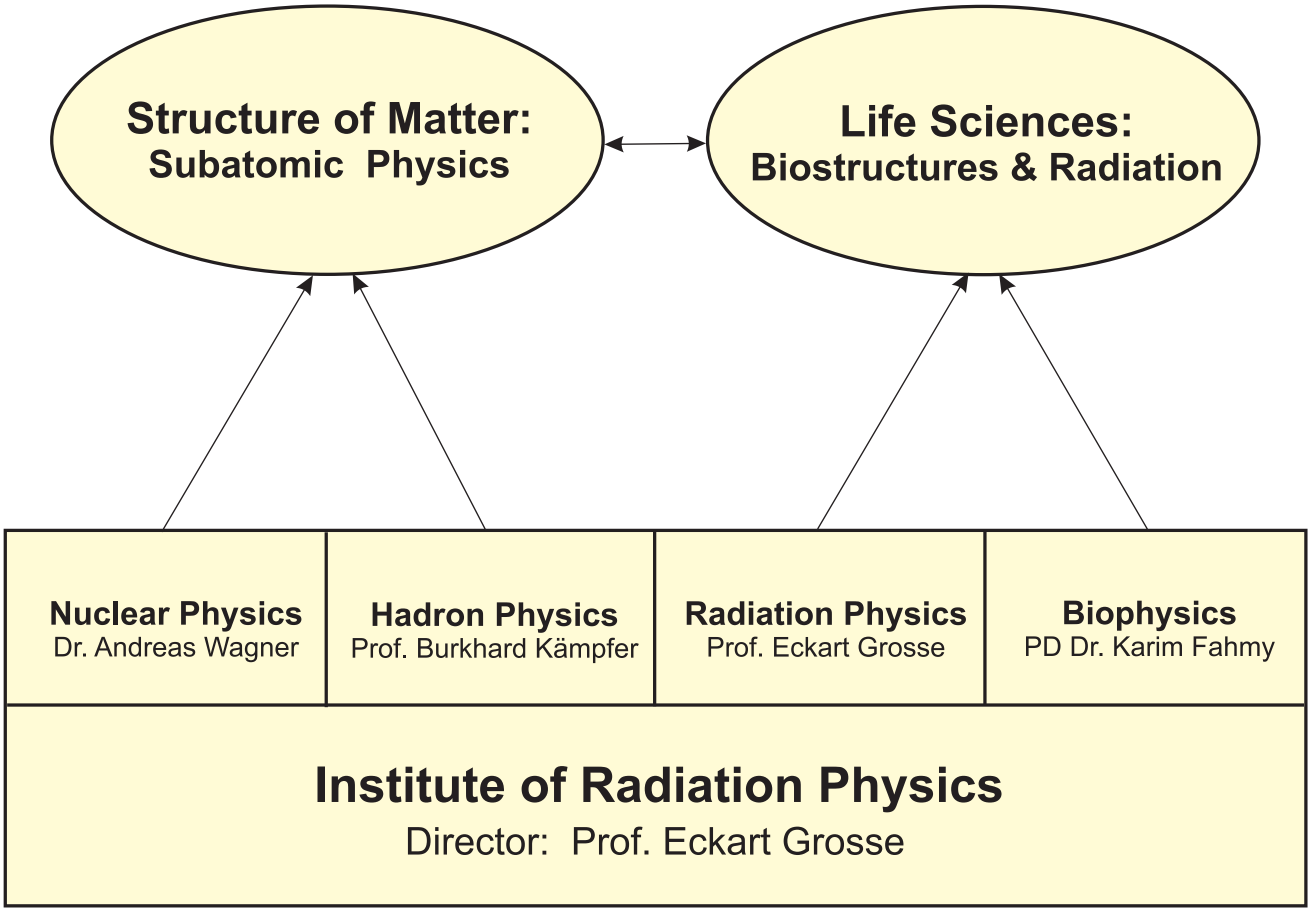
Holger Weigelt
Weiterentwicklung und Realisierung der Diagnostik der IR-Strahlung am Frei-Elektronen-Laser
Hochschule Mittweida (FH), March 2006

Meetings organized by the IKH

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

Personnel

Departments of the ISP



Personnel of the Institute of Radiation Physics

Director: Prof. Dr. E. Grosse[1]

Scientific Personnel

PD Dr. H.W. Barz	Prof. H. Kötzle	Dr. R. Schwengner
Dr. D. Bemmerer	Dr. R. Kotte	Dr. M. Sczepan
Dr. F. Dönau	Dr. A. Lehnert	Dr. W. Seidel
Dr. P. Crespo	Dr. H. Müller	Dr. A. Sytcheva
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Prof. Dr. W. Enghardt[1]	Dr. L. Naumann	Dr. W. Wagner
PD Dr. K. Fahmy	Dr. W. Neubert	Dr. R. Wünsch
Prof. Dr. S. Frauendorf[2]	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[3]
B. Bannier[3]	M. Kempe	D. Stach
M. Fauth	T. Kluge	N. Stawrakikis[3]
R. Hannaske	A. Müller	T. Würschig[3]
T. Hilger	H. Schade[3]	K. Zeil
U. Just	R. Schulze[3]	

Technical Personnel

J.U. Berlin	J. Hutsch	S. Schaller
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M. Boeck	M. Langer	C. Schneidereit
H. Gude	E. Leßmann	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

[1] *also TU Dresden*
[2] *also University of Notre-Dame, Indiana, USA*
[3] *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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