

## Veröffentlichungen und Vorträge der Mitarbeiter der berichterstattenden Arbeitsgruppen

### Veröffentlichungen

- A. L. Ageev, M. E. Korshunov, T. Ye. Reich, T. Reich, H. Moll  
Regularization methods for the analysis of EXAFS spectra of chemical complexes  
*J. Inverse Ill-Posed Problems* **15**, 767 (2007)
- S. Amayri, M. Breckheimer, J. Drebert, T. Reich  
EXAFS Study of Neptunium(V) Sorption onto Hematite  
Proceedings of 4<sup>th</sup> Workshop on Speciation, Techniques, and Facilities for Radioactive Materials at Synchrotron Light Sources, Actinide-XAS-2006 Workshop, Karlsruhe, September 18 - 20, 2006, NEA-OECD **6288**, 163 (2007)
- N.L. Banik, R.A. Buda, S. Bürger, J.V. Kratz, N. Trautmann  
Speciation of Plutonium in Aqueous Systems  
Proc. of the International Conference "Plutonium Futures – The Science 2006", Asilomar, USA, July 9-13, 2006, *J. Alloys & Compounds*, accepted
- N.L. Banik, R.A. Buda, S. Bürger, J.V. Kratz, N. Trautmann  
Speciation and interactions of plutonium with humic substances and kaolinite in aquifer systems  
*J. Alloys. Compd.* **444-445**, 522 (2007)
- N.L. Banik, R.A. Buda, S. Bürger, J.V. Kratz, N. Trautmann  
Sorption of tetravalent plutonium and humic substances onto kaolinite  
*Radiochim. Acta* **95**, 569 (2007)
- F. Becker, S. Nagels, B. Burgkhardt, R. Böttger, A. Lizón Aguilar, G. Hampel, B. Wortmann  
Dosimetry in Mixed Gamma-Neutron Radiation Fields and Energy Compensation Filters For CaF<sub>2</sub>:Tm TL Detectors,  
Elsevier, Radiation Measurements (2007)
- S. Bürger, N.L. Banik, R.A. Buda, J.V. Kratz, B. Kuczewski, N. Trautmann  
Speciation of the oxidation states of plutonium in aqueous solutions by UV/VIS spectroscopy, CE-ICP-MS, and CE-RIMS  
*Radiochim. Acta* **95**, 433 (2007)
- B.A. Bushaw, W. Nörtershäuser, G.W.F. Drake, and H.-J. Kluge  
The ionization energy of <sup>6,7</sup>Li determined by high-resolution resonance ionization mass spectrometry  
*Phys. Rev. A* **75**, 052503 (2007)
- M. Bussmann, U. Schramm, D. Habs, M. Steck, T. Kühl, K. Beckert, P. Beller, B. Franzke, W. Nörtershäuser, C. Geppert, C. Novotny, J. Kluge, F. Nolden, T. Stöhlker, C. Kozhuharov, S. Reinhardt, G. Saathoff, S. Karpuk  
The dynamics of bunched laser-cooled ion beams at relativistic energies  
*J. Phys.: Conf. Ser.* **88**, P. 012043 (2007)  
Freiburg, Germany (2007)
- Ch. Fehr, I. Yakushev, N. Hohmann, H.-G. Buchholz, Ch. Landvogt, G. Gründer, H. Deckers, A. Eberhardt, M. Kläger, M. Smolka, A. Scheurich, T. Dielentheis, L.G. Schmidt, F. Rösch, P. Bartenstein, M. Schreckenberger,  
Dependent Smoking Leads to a Decrease in Striatal Dopamine D2 Receptor Availability Similar to other Drugs of Abuse  
*American Journal of Psychiatry* (2007) in press
- G. W. F. Drake, Z.-T. Lu, W. Nörtershäuser, Z.-C. Yan  
Halo Nuclei in Laser Light  
*Lecture Notes in Physics* **745**, Precision Physics of Simple Atoms and Molecules, 131-153, Springer (2008)
- J. Dvorak, W. Bröchle, M. Chelnokov, Ch. E. Düllmann, Z. Dvorakova, K. Eberhardt, E. Jäger, R. Krücken, A. Kuznetsov, Y. Nagame, F. Nebel, K. Nishio, R. Perego, Z. Qin, M. Schädel, B. Schausten, E. Schimpf, R. Schuber, A. Semchenkov, P. Thörle, A. Türler, M. Wegrzecki, B. Wierczinski, A. Yakushev, A. Yerebin  
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- A. Frei, Yu. Sobolev, I. Altarev, K. Eberhardt, A. Gschrey, E. Gutmiedl, R. Hackl, G. Hampel, F.J. Hartmann, W. Heil, J.V. Kratz, Th. Lauer, A. Lizón Aguilar, A.R. Müller, S. Paul, Yu. Pokotilovski, W. Schmid, L. Tassini, D. Tortorella, N. Trautmann, U. Trinks, and N. Wiehl  
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- G. Gambarini, F. Gallivanone, M. Carrarac, S. Nagels, L. Vogtländer, G. Hampel, L. Pirola  
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Düsseldorf: DPG Frühjahrstagung, 19.-23.03.2007

Z. Andjelkovic  
Test of a Penning Trap dedicated for Laser Spectroscopy of Highly Charged Ions

W. Nörtershäuser  
Bestimmung der Ionisationsenergie von Lithium - Präzisions-Spektroskopie auf nano-eV Niveau

M. Nothhelfer  
Ein Lasersystem für die Spektroskopie radioaktiver Be-Ionen in einer Paulfalle

D. Tiedemann  
Eine Paulfalle für die Präzisions-Laserspektroskopie an radioaktiven Berylliumionen

Mainz: 21. Seminar Aktivierungsanalyse und Gammaspektroskopie (SAAGAS), 21.-23.03.2007

M. Feige, S. Zauner, G. Hampel  
Instrumentelle Neutronenaktivierungsanalyse (INAA) von Weinen aus der Region Rheinhessen

G. Hampel, K. Eberhardt  
NAA und andere Experimente am TRIGA Mainz,

J. Hampel, S. Zauner, G. Hampel  
Instrumentelle Neutronenaktivierungsanalyse (INAA) von mineralogischen Proben

M. Jahn  
Molecular Imaging of Solid Tumors in Rats with a Radioactive Arsenic-labeled Antibody that Binds Anionic Phospholipids

I. Conejos Sánchez, G. Hampel, S. Zauner, J. Riederer  
Instrumental Neutron Activation Analysis (INAA) of Glass Paintings (verre églomisé)

N. Scheid, S. Zauner, G. Hampel, S. Becker, P. Weiss  
Neutronenaktivierungsanalyse von Glasproben in Zusammenarbeit mit dem BKA

Chicago, USA: 233rd American Chemical Society Meeting, Division of Nuclear Chemistry and Technology, Glenn T. Seaborg Award for Nuclear Chemistry Symposium honoring Dr. Norbert Trautmann, 25.-29.03.2007

K. Eberhardt\*, J.V. Kratz, P. Löb, G. Skarneck  
MicroSISAK – a device for fast and continuous liquid-liquid-extractions on a µl-scale

N. Erdmann\*, J.V. Kratz, N. Trautmann, G. Passler, G. Huber, K. Wendt  
Resonance ionization mass spectrometry for element- and isotope-selective trace analysis

G. Herrmann\*  
Introductory Remarks

J.V. Kratz\*  
Aqueous-phase chemistry of the transactinide elements

T. Reich\*, J. V. Kratz, N. Trautmann  
Interactions of neptunium and plutonium with minerals and humic substances

N. Trautmann\*  
Rapid Chemical Separation Methods and Resonance Ionization Mass Spectrometry: Tools for Nuclear Research

Potsdam: Workshop des BMWi-Verbundprojektes "Wechselwirkung und Transport von Actiniden im natürlichen Tongestein unter Berücksichtigung von Huminstoffen und Tonorganika", 02.-03.04.2007

S. Amayri  
Neue EXAFS-Ergebnisse zur Sorption von Actiniden an Mineralen

R. Buda  
Untersuchungen des ternären Systems Plutonium-Huminstoff-Kaolinit und neue Entwicklungen an der CE-DAD-ICP-MS

Saariselkä, Finland: EURONS Laser and Trap collaboration meeting, 11.-15.04.2007

J. Krämer  
A Penning trap for precision spectroscopy of highly charged ions at HITRAP

W. Nörtershäuser  
The Status of LASPEC and a Concept for Col-linear Spectroscopy at TRIGA Mainz

Hannover: 45. Jahrestagung der Deutschen Gesellschaft für Nuklearmedizin, 25.-28.04.2007

M. Fellner, N. Loktionova, P. Riß, K. Zhernosekov, F. Rösch  
Gallium-68-Phosphonat-Komplexe zur Knochentumor-Diagnostik

T. Heß, T. Betzel, F. Rösch, J.C. Reubi  
Synthese von closo-Boran konjugierten Tyr3-Octreotat-Derivaten für die BNCT

N. Loktionova, D. Storch, K. Zhernosekov, H. Mäcke, F. Rösch  
Labelling of (DOTA)-octreotide derivatives with Ga-68

Aachen: 17<sup>th</sup> International Symposium on Radiopharmaceutical Sciences, 30.04.-04.05.2007

T. Capito, F. Debus, M. Piel, H. Lüddens, F. Rösch

Synthesis, <sup>18</sup>F-Labeling and Evaluation of  $\alpha_5$ -Subtype-Selective GABA<sub>A</sub>-Receptor-Ligands

M. Fellner, P. Riß, N. Loktionova, K. Zhernosekov, F. Rösch

Phosphonate-Complexes of Gallium-68 for Bone Tumor Imaging

M. Herth, M. Piel, P. Riß, F. Rösch  
Novel Synthesis of [<sup>18</sup>F]FE1-MDL 100907, a Potential 5-HT<sub>2A</sub> Antagonist

T. Hess, T. Betzel, F. Rösch, J.C: Reubi  
Synthesis of Highly Affine CLOSO-Borane Conjugated TYR<sup>3</sup>-Octreotate-Derivates for the BNCT

M. Jahn, P. Bouziotis, M. Jennewein, A.L. Harris, A.D. Varvarigou, F. Rösch  
Labeling of an Anti-VEGF Monoclonal Antibody with Radioactive Arsenic Isotopes

N.S. Loktionova, D. Sotch, K.P. Zhernosekov, H. Mäcke, F. Rösch  
Labelling of (DOTA)n-Octreotate Derivatives with <sup>68</sup>Ga

P.J. Riß, F. Rösch  
Synthesis and Direct Fluorination of LBT-999 and new Conformationally Restricted Analogues

P.J. Riß, F. Debus, V. Soskic, A: Schrattenholz, H. Lüddens, F. Rösch  
Synthesis and Radiolabelling of N5-[<sup>18</sup>F]Fluoroethyl-Pirenzepine and its Metabolite N5-[<sup>18</sup>F]Fluoroethyl-LS 75

Eindhoven, Niederlande: COST Chemistry D38 "Metal-Based Systems for Molecular Imaging Applications", 03.-05.05.2007

P. Riß  
Affibody Molecules, a New Class of High-affinity Targeting Proteins for Molecular Imaging and Targeted Therapy

Mainz: Festsymposium zu Ehren des Glenn T. Seaborg Awards für Dr. Norbert Trautmann Johannes Gutenberg-Universität, 14.05.2007

W. Nörtershäuser\*  
Laserspektroskopie schwerster Elemente und exotischer Nuklide

Darmstadt: GSI Kolloquium, 22.05.2007

W. Nörtershäuser\*  
Precision at the Intersection of Atomic and Nuclear Physics: Laser Spectroscopy

Karlsruhe: Jahrestagung Kerntechnik, 21-24.05.2007

G. Hampel, K. Eberhardt  
Ausbildung und Kompetenzerhalt in Kernchemie, Kernphysik und Strahlenschutz am Forschungsreaktor TRIGA Mainz

B. Wortmann, G. Hampel  
3-D Berechnungen zur Entwicklung eines Umbaukonzeptes der Thermischen Säule eines TRIGA-Mark II Reaktors mit den Strahlungstransportprogramm ATTILA

Washington, DC, USA: SNM 54<sup>th</sup> Annual Meeting: 02.-06.06.2007

T. Capito, M. Piel, R. Lindner, A. Hess, F. Rösch  
Routine Synthesis of [<sup>18</sup>F]Flumazenil Using a Fully Automated

G. Gründer, C. Boy, A. Bröcheler, C. Fellows, C. Hiemke, U. Büll, F. Rösch, I. Vernaleken, W. Schäfer  
The Temporal and Extratriatal D2/D3 Receptor Binding Profile of Aripiprazole in Patients with Schizophrenia

Wiesbaden: Seminarvortrag an der Fachhochschule Wiesbaden, 05.06.2007

K. Eberhardt, G. Hampel  
Der Forschungsreaktor TRIGA Mainz – eine vielseitige Neutronenquelle für Forschung und Industrie

Indianapolis, USA: 55<sup>th</sup> American Society for Mass Spectrometry ASMS Conference, 03.-07.06.2007

R. Buda, J.V. Kratz, N. Trautmann  
New Methods for the speciation of plutonium under environmental conditions

Tokio, Japan: International Nuclear Physics Conference, INPC2007, 03.-08.06.2007

W. Nörtershäuser  
The Nuclear Charge Radius of the Halo Nucleus Li-11

Neapel, Italien: 2<sup>nd</sup> International Conference of European Society for Molecular Imaging (ESMI), 14.-15.06.2007

T. Heß, T. Betzel, F. Rösch, J.C. Reubi  
Synthesis of Highly Affine Closo-borane conjugated Tyr<sup>3</sup>-octreotate-derivates for the BNCT

Darmstadt: Physikalisches Kolloquium des Fachbereichs Physik der TU Darmstadt, 22.06.2007

N. Trautmann\*

Untersuchung der schwersten Elemente mit Lasermassenspektrometrie und schnellen chemischen Verfahren

München: International Symposium on Protons, Ions and Neutrons in Radiation Oncology, 06.-07. 07.2007

W. Sauerwein, R. Moss, A. Wocjik, S. Altieri, G. Hampel, A. Wittig, V. Nievaar, L. Collette, P. Mauri, R. Huiskamp, J. Michel, G. Daquino, G. Gerken, N. Bornfeld, M. Stuschke, M. Malago  
BNCT and autotransplantation: a curative approach for disseminated, non-resectable Liver Metastases?

München: 11<sup>th</sup> International Conference on the Chemistry and Migration Behaviour of Actinides and Fission Products in the Geosphere MIGRATION'07, 26.-31.08.2007

S. Amayri, M. Breckheimer, J. Drebert, T. Reich  
EXAFS Study of Neptunium(V) Sorption onto Hematite ( $\alpha$ -Fe<sub>2</sub>O<sub>3</sub>)

R.A. Buda, N.L. Banik, J.V. Kratz, T. Trautmann  
Studies of the ternary systems humic substances-kaolinite-Pu(III) and Pu(IV)

S. Dierking, V. Vicente Vilas, T. Wu, S. Amayri, T. Reich  
Np(V) Sorption onto  $\gamma$ -Al<sub>2</sub>O<sub>3</sub> and  $\alpha$ -Al(OH)<sub>3</sub>: the Effect of CO<sub>2</sub>

Wien, Österreich: First Research Coordination Meeting of the Corrdinated Research Project on Evaluation and Validation of Radioisotopes Generators-Based Radiotracer for Industrial Applications, 27.-31.08.2007

F. Rösch  
Versatile Synthesis of Generator-derived Tracers for Flexible Industrial Application

Nürnberg: Canberra Fachgespräch, 05.-07.09.2007

N. Wiehl, G. Hampel  
Forschungsreaktor Mainz

Vancouver, Kanada: International Workshop UCN Sources and Experiments, 13.-14.09.2007

G. Hampel  
TRIGA Mainz status and experimental plans

Ulm: GDCh Wissenschaftsforum Chemie 2007, Jahrestagung der Fachgruppe Nuklearchemie, 16.-19.09.2007

S. Amayri

Direkte Speziation der Sorption von Neptunium und Plutonium an Kaolinit mittels XAFS-Spektroskopie

R. Buda, N. Banik, J.V. Kratz, N. Trautmann  
Die ternären Systeme Huminstoffe-Kaolinit-Pu(III) und Pu(IV)

A. Ölcer, J. Drebert, T. Reich  
XPS-Untersuchung von elektrochemisch hergestellten Urantargets

V. Vicente Vilas, S. Dierking, J.V. Kratz, S. Rubert de la Rosa, N. Trautmann  
Studium des Einflusses von STx-1 Montmorillonit auf die Bildung von huminstoffartigen Substanzen

Nagoya, Japan: ISE'07, 17.-20.09.2007

S. Dierking, S. Amayri, T. Reich  
Actinide Sorption Studies Using the Isotopes <sup>237</sup>Np and <sup>239</sup>Np

Potsdam: Tagung Archäometrie und Denkmalpflege, 19.-22. 09.2007

Conejos Sánchez, G. Hampel, S. Zauner, J. Riederer  
Instrumentelle Neutronenaktivierungsanalyse von Gläsern aus der Hinterglasmalerei

Birmingham, England: Young Researchers BNCT Meeting, , 21.-22.09.2007

C. Schütz, F. Enzmann, T. Häger, G. Hampel  
Mathematical method for the quantitative estimation of films during neutron radiography

S. Stella, S. Bortolussi, P. Bruschi, A. De Bari, C. Schütz, F. Enzmann, T. Häger, G. Hampel, S. Altieri  
Methods for the quantitative and qualitative estimation of boron concentration in tissues by neutron autoradiography

Davos, Schweiz: 3rd International Conference on the Chemistry and Physics of the Transactinide Elements TAN07, 23.-28.09.2007 and TASCAs Workshop, 28.09.2007

J. Dvorak, W. Bröchle, M. Chelnokov, R. Dressler, Ch. E. Düllmann, K. Eberhardt, V. Gorshkov, E. Jäger, R. Krücken, A. Kuznetsov, Y. Nagame, F. Nebel, Z. Novackova, Z. Qin, M. Schädel, B. Schausten, E. Schimpf, A. Semchenkov, P. Thörle, A. Türler, M. Wegrzecki, B. Wierczinski, A. Yakushev, and A. Yeremin  
Doubly magic nucleus <sup>270</sup>Hs

K. Eberhardt, B. Lommel, M. Schädel, J. Szepo  
Target preparation for the gas-filled separator  
TASCA at GSI

J.V. Kratz\*  
Liquid phase studies of the transactinides

J.V. Kratz  
Electrodeposition Experiments planned @  
TASCA

K. Opel, D. Ackermann, W. Bröchle, R. Dressler, Ch.E. Düllmann, J. Dvorak, K. Eberhardt, R. Eichler, Z. Gan, J.M. Gates, A. Gorshkov, K.E. Gregorich, F.P. Hessberger, H. Hummrich, E. Jäger, J. Khuyagbaatar, J.V. Kratz, J.P. Omtvedt, A. Sabelnikov, F. Samademi, E. Schimpf, M. Schädel, B. Schausten, H.-J. Schött, R. Schuber, A. Semchenkov, A. Türler, A. Yakushev  
Recoil transfer chamber design at TASCA

Z. Qin, D. Ackermann, W. Bröchle, F.P. Hessberger, E. Jäger, P. Kuusiniemi, G. Müntzenberg, D. Nayak, E. Schimpf, M. Schädel, B. Schausten, A. Semchenkov, B. Sulignano, X.L. Wu, K. Eberhardt, J.V. Kratz, D. Liebe, P. Thörle, Yu.N. Novikov  
Search for the missing  $\alpha$ -decay branch in  $^{239}\text{Cm}$

Morschach, Schweiz: 15. Arbeitstagung der Arbeitsgemeinschaft Radiochemie/Radiopharmazie, 27.-29.09.2007

M.M. Herth, M. Piel, F. Debus, M. Palner, P. J. Riß, G. M. Knudsen, H. Lüddens, F. Rösch  
Synthesis and Evaluation of [ $^{18}\text{F}$ ]FE1-MDL 100907, a 5-HT<sub>2A</sub> Receptor Ligand

P. Riß, F. Rösch  
Synthesis of 12 Novel Analogues of LBT999 as Highly Potent Selective Dopamine Transporter Ligands for PET

Saarbrücken: Workshop des BMWi-Verbundprojektes "Wechselwirkung und Transport von Actiniden im natürlichen Tongestein unter Berücksichtigung von Huminstoffen und Tonorganika", 11.-12.10.2007

S. Amayri  
Sorption von Th, U, Np, Pu und Am an Opalinuston

Grenoble, Frankreich: European COMSOL Conference, 23.+24.10.2007

G. Konrad, F. A. Guardia, S. Baeßler, M. Borg, K. Eberhardt, F. Glück, W. Heil, S. Hiebel, R. Muñoz Horta and Y. Sobolev  
Design of an Anti-Magnetic Screen for the Neutron Decay Spectrometer aSPECT

Bangkok, Thailand: International Conference on Clinical PET and Molecular Nuclear Medicine (IPET 2007), 10.-14.11.2007

F. Rösch\*  
The  $^{68}\text{Ge}/\text{Ga}$  Radionuclide Generator: Processing and Potential for Radiopharmaceutical Chemistry and Nuclear Medicine

Mainz: E-Learning-Tag 2007 der Johannes Gutenberg-Universität Mainz, 23.11.2007

T. Klimach, T. Reich  
Neue Fragetypen in E-Klausuren für Naturwissenschaftler

Essen: Seminar bei der Gesellschaft für Simulatorschulung mbH, 13.06., 18.07., 19.09. und 28.11.2007

K. Eberhardt\*  
Aufbau und Nutzung von Forschungsreaktoren

Wiesbaden: 5. Symposium zur Entlastung von radioaktiven Stoffen aus dem Geltungsbereich des Atomgesetzes, 29.-30.11. 2007

G. Hampel  
Herausbringen von aktivierten Komponenten an Forschungsreaktoren

Freiburg: Klinisch-nuklearmedizinische Gespräche, Universitätsklinikum Freiburg, 12.12.2007

F. Rösch\*  
Radionuklid-Generatoren für die PET

Vadodara, Indien: National Laser Conference NLC 07, 17.12.2007

W. Nörtershäuser\*  
From Present into the Future - Laser Spectroscopy at GSI

Delhi, Indien: Inter-University Accelerator Center, 20.12.2007

W. Nörtershäuser\*  
From Present into the Future - Laser Spectroscopy at GSI

- H. Haba, K. Tsukada, M. Asai, A. Toyoshima, Y. Ishii, H. Toume, T. Sato, I. Nishinaka, T. Ichikawa, S. Ichikawa, Y. Nagame, W. Sato K. Matsuo, Y. Kitamoto, Y. Tashiro, A. Shinohara, J. Saito, M. Ito, T. Ikezawa, M. Sakamaki, S. Goto, H. Kudo, H. Kikunaga, M. Arai, S. Kamataki, A. Yokoyama, K. Akiyama, K. Sueki, Y. Oura, M. Schädel, W. Bröchle, J.V. Kratz  
Extraction behaviour of rutherfordium into tributylphosphate from hydrochloric acid  
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- Y. Ishii, A. Toyoshima, K. Tsukada, M. Asai, H. Toume, I. Nishinaka, Y. Nagame, S. Miyashita, T. Mori, H. Suganuma, H. Haba, M. Sakamaki, S. Goto, H. Kudo, K. Akiyama, Y. Oura, H. Nakahara, Y. Tashiro, A. Shinohara, M. Schädel, W. Bröchle, V. Pershina, and J.V. Kratz  
Fluoride complex formation of element 104, Rutherfordium (Rf) investigated by cation-exchange chromatography  
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- M. Jennewein, M.A. Lewis, Dr. Zhao, E. Tsyganov, N. Slavine, J. He, L. Watkins, P.P. Antich, A. Hermanne, F. Rösch, R.P. Mason, P.E. Thorpe  
Vascular Imaging of Solid Tumors in Rats with a Radioactive Arsenic-labeled Antibody that Binds exposed phosphatidylserine  
*Clinical Cancer Res.* (2007) submitted
- K.M. Kirschbaum, M.J. Müller, J. Malevani, A. Mobascher, C. Burchardt, M. Piel, C. Hiemke  
Serum levels aripiprazole and dehydroaripiprazole, clinical response and side effects  
*World J. Biol. Psychiatry* 11, 1 (2007)
- A. Klimkiewicz, P. Adrich, K. Boretzky, M. Fallot, T. Aumann, D. Cortina-Gil, U. Datta Pramanik, Th.W. Elze, H. Emling, H. Geissel, M. Hellstroem, K.L. Jones, J.V. Kratz, R. Kulesa, Y. Leifels, C. Nociforo, R. Palit, H. Simon, G. Surowka, K. Sümmerer, S. Typel, and W. Walus  
Dipole response of neutron-rich Sn isotopes  
*Nucl. Phys.* A788, 145c (2007)
- A. Klimkiewicz, N. Paar, P. Adrich, M. Fallot, K. Boretzky, T. Aumann, D. Cortina-Gil, U. Datta Pramanik, Th. W. Elze, H. Emling, H. Geissel, M. Hellström, K.L. Jones, J.V. Kratz, R. Kulesa, C. Nociforo, R. Palit, H. Simon, G. Surówka, K. Sümmerer, D. Vretenar, and W. Walus  
Nuclear symmetry energy and neutron skins derived from pygmy dipole resonances  
*Phys. Rev.* C76, 051603(R) (2007)
- W. Nörtershäuser  
Laser Spectroscopy at GSI - From Present into the Future  
Proceedings of the 7th DAE-BRNS National Laser Symposium (NLS-07), Vadodara (India) 17-20. Dec 2007  
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- M. Piel, A. Bauman, R.P. Baum, S. Höhnemann, I. Klette, R. Wortmann, F. Rösch,  
Improved automated synthesis of [<sup>18</sup>F]fluoroethylcholine as a radiotracer for cancer imaging  
*Bioorg. Med. Chem.* 15, 3171 (2007)
- S.M. Qaim, F. Rösch  
in: International journal for chemical aspects of nuclear science and technology, *Radiochimica Acta* – Volume 95, editors: S.M. Qaim and F. Rösch, *Radiolanthanides in Therapy*, Oldenbourg 2007, 6
- T. Reich, T.Ye. Reich, S. Amayri, J. Drebert, N.L. Banik, R.A. Buda, J.V. Kratz, N. Trautmann  
Application of EXAFS Spectroscopy to Actinide Environmental Science  
Proceedings of the 13<sup>th</sup> International Conference on X-ray Absorption Fine Structure XAFS13, Stanford, July 9-14, 2006, AIP Conference Proceedings 882, 179 (2007)
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## Vorträge<sup>+</sup>

Gaithersburg, USA: NIST Radioactive Group Seminar, 08.01.2007

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High-Precision spectroscopy of exotic Nuclei -  
The nuclear charge radius of Li-11

East Lansing, USA: Michigan State University, National Superconducting Laboratory NSCL - Nuclear Seminar, 10.01.2007

W. Nörtershäuser\*  
Halo nuclei in laser light - The nuclear charge radius of Li-11

Oak Ridge, USA: Oak Ridge National Laboratory, Physics Division Seminar, 11.01.2007

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Halo nuclei in laser light - The nuclear charge radius of Li-11

Mainz: GDCh-Jungchemikerforum Mainz/Wiesbaden, 1. Mainzer Arbeitskreis-Symposium, 26.01.2007

S. Amayri, M. Breckheimer, T. Reich  
EXAFS study of neptunium(V) sorption onto hematite

T.Ye. Reich, N.L. Banik, R. Buda, S. Amayri, J. Drebert, J.V. Kratz, N. Trautmann, T. Reich  
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W. Nörtershäuser\*  
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H. Keller  
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H. Keller  
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Gießen: Frühjahrstagung des DPG-Fachverbands Hadronen und Kerne, 12.-16.03.2007

Y. Aksyntina for the S245-Collaboration  
Experimental studies using an energetic beam of  $^8\text{He}$  and  $^{14}\text{Be}$

N. Bondar, V. Golovtsov, J. Hoffmann, V. Latsura, A. Khanzadeev, O. Kielsev, N. Kurz, C. Müntz, W. Ott, E. Roshchin, J. Stroth, L. Uvarov, C. Wimmer for the  $\text{R}^3\text{B}$ -Collaboration  
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A. Frei, I. Altarev, K. Eberhardt, E. Gutmiedl, G. Hampel, F.J. Hartmann, W. Heil, J.V. Kratz, T. Lauer, S. Paul, Y. Pokotilovsky, Y. Sobolev, N. Wiehl  
Production of ultracold neutrons with a solid deuterium converter at a test facility at the TRIGA reactor in Mainz

S. Ilieva, F. Aksour, K. Beckert, P. Beller, K. Boretzky, A. Chatillon, P. Egelhof, H. Emling, G. Ickert, J. Jourdan, O. Kiselev, C. Kozhuharov, T. Le Bleis, X.C. Le, Y. Litvinov, N. Kalantar, K. Mahata, J.P. Meier, H. Moeni, F. Nolden, S. Paschalis, U. Popp, D. Rohe, H. Simon, M. Steck, T. Stöhlker, H. Weick, D. Werthmüller, A. Zalite for the EXL-Collaboration  
Feasibility studies for direct reactions on exotic nuclei at storage rings

D. Rossi, K. Mahata, A. Blanco, K. Boretzky, U. Datta Pramanik, P. Fonte, K. Hildenbrand, N. Kalantar, L.A. Popescu, C. Rigollet, A. Schüttauf, H. Simon, M. Vencelj, H. Woertche for the  $\text{R}^3\text{B}$  collaboration  
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Y. Sobolev, I. Altarev, K. Eberhardt, E. Gutmiedl, A. Frei, G. Hampel, F.J. Hartmann, W. Heil, J.V. Kratz, T. Lauer, S. Paul, Y. Pokotilovsky, N. Wiehl  
Preliminary results on the performance of the new test setup with solid deuterium converter for ultracold neutrons production at the reactor TRIGA in Mainz

+ Vortragender unterstrichen, falls nicht an erster Stelle aufgeführt

\* auf Einladung