

## **APPENDICES**



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## PUBLICATIONS

Cold Compression of Solid Matter by Intense Heavy-Ion Beam-Generated Pressure Waves  
Constantin, E. Dewald, C. Niemann, D.H.H. Hoffmann, S. Udrea, D. Varentsov, J. Jacoby,  
U.N. Funk, U. Neuner, and A. Tauschwitz  
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Sensitive Laser Deflection Technique  
C. Constantin, C. Niemann, E. Dewald, S. Udrea, J. Jacoby, D. Varentsov, P. Schwab, J.  
Wieser, D.H.H. Hoffmann,  
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M. Roth, A. Azima, A. Blazevic, S. Borneis, E. Brambrink, E. Gaul, M. Geissel, T. Kuehl, P.  
Neumayer, P. Pirzadeh, F.B. Rosmej, M. Rytter, G. Schaumann, T. Schlegel, N.A. Tahir, S.  
Udrea, D. Varentsov, D.H.H. Hoffmann  
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Fernandez, J.-C. Gauthier, M. Geissel, M. Hegelich, S. Letzring, H. Pepin, N. Renard-Le  
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in Porous Carbon Targets  
V. Vatulin, A. Kunin, A. Golubev, V. Luk'yashin, V. Turtikov, B. Sharkov, E. Baldina, N.  
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R. Doron, R. Arad, K. Tsigutkin, D. Osin, A. Weingarten, A. Starobinets, V. Bernshtam, E. Stambulchik, Y. Ralchenko, Y. Maron, A. Fruchtman, A. Fisher, J. Huba, M. Roth  
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D. Osin, R. Doron, K. Tsigutkin, A. Starobinets, V. Bernshtam, A. Fisher, A. Fruchtman, Y. Maron, A. Tauschwitz  
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N.A. Tahir, S. Udreă, C. Deutsch, V.E. Fortov, N. Grandjouan, V. Gryaznov, D.H.H. Hoffmann, P. Houlsmann, M. Kirk, I.V. Lomonosov, A.R. Piriz, A. Shutov, P. Spiller, M. Temporal, D. Varentsov,  
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Applications of Intense Heavy Ion Beams to Studies of Thermophysical Properties of High-Energy-Density Matter

N.A. Tahir, D. Varentsov, C. Deutsch, A. Filimonov, V.E. Fortov, V. Gryaznov, D.H.H. Hoffmann, M. Kulish, I.V. Lomonosov, V. Mintsev, D. Nikolaev, A.R. Piriz, N. Shilkin, A. Shutov, M. Temporal, V. Ternovoi, S. Udreă, A. Utkin  
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A.R.Piriz, M.Temporal, J.J.Lopez Cela, N.Grandjouan, N.A.Tahir,D.H.H.Hoffmann  
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M.M.Basko, T. Schlegel  
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Numerical Simulation for the Frankfurt Funneling Experiment

J. Thibus, A. Schempp

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The Frankfurt Funneling Experiment

J. Thibus, I. Mueller, N. Mueller, A. Schempp, H. Zimmermann

Proc. 9<sup>th</sup> EPAC, Lucerne, EPS-AG and CERN, Geneve, 1213 (2004)

High Current Ion Beams at Frankfurt

M. Droba, O. Meusel, U. Ratzinger, K. Volk

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M. Iberler, V. Arsov, R. Berezov, J. Jacoby, C. Teske

Proc. 31<sup>st</sup> EPS Conference on Plasma Physics, ECA Vol. 28G, 404 (2004)

Net Charge of a Conducting Microsphere Embedded in a Thermal Plasma

M. Kanopathipillai, P. Mulser, D.H.H. Hoffmann, T. Schlegel, Y. Maron, R. Sauerbrey

Physics of Plasmas 11 (8): 3911 (2004)

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P. Mulser, D. Bauer

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P. Mulser, R. Schneider

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V. Bezkrovniy, V.S. Filinov, D. Kremp, M. Bonitz, M. Schlanges, W.D. Kraeft, P.R.

Levashov, V.E. Fortov

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J. Vorberger, M. Schlanges, W.D. Kraeft

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V.S. Filinov, M. Bonitz, V.E. Fortov, W. Ebeling, P. Levashov, M. Schlanges

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Th. Bornath, M. Schlanges, P. Hilse, D. Kremp

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D.O. Gericke, M.S. Murillo  
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A. Höll, R. Redmer, G. Röpke, H. Reinholz  
Eur. Phys. J. D 29, 159 (2004)

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G. Gregori, S.H. Glenzer, F.J. Rogers, S.M. Pollaine, O.L. Landen, C. Blancard, G.  
Faussurier, P. Renaudin, S. Kuhlbrodt, R. Redmer  
Physics of Plasmas 11 (5), 2754 (2004)

## CONFERENCE CONTRIBUTIONS

### **Arcetri, Firenze, Italy, IV Congresso Fisica de Plasmi, January 12 – 14, 2004**

M. Kanopathipillai

Giant Enhancement of Inverse Bremstrahlung in Extended Cluster Media

P. Mulser

Laser-Cluster Interaction - Absorption Models and Giant Amplification of Collisional Absorption

### **Albuquerque, USA, Sandia National Laboratories, Workshop on Heavy Ion Fusion Science Initiatives, February 2004**

A. Tauschwitz

HEDP with Heavy Ion Beams at GSI  
Assisted Pinch Final Transport

### **Yong Pjong, Korea, Asian Pacific Laser Science Conference 2004, March 1 – 6, 2004**

Hoffmann, Dieter H.H.

Basic Physics for Inertial Fusion Energy and High Energy Density Physics with Intense Ion and Laser Beams

The German Perspective on Recent Progress of Inertial Fusion Energy Research

### **Beijing, China, International Symposium "Scientific Opportunities and Challenges – China and the International FAIR Project", April 14 - 16, 2004**

D. Varentsov,

High Energy Density Matter with Intense Heavy Ion and Laser Beams at GSI

### **Princeton, N.J., USA, 5th International Symposium on Heavy Ion Inertial Fusion Princeton, June 7 - 11, 2004**

D.H.H. Hoffmann

European Programme Overview and the German Perspective for Heavy Ion Inertial Fusion Energy Research

A. Blazevic

Energy Loss of Heavy Ions in Dense Plasma

N.A. Tahir  
Studies of Heavy Ion Induced High-Energy-Density States in Matter at the GSI  
Darmstadt SIS 18 and Future FAIR Facility

D. Varentsov  
High Energy Density Physics Experiments with Intense Heavy Ion Beams at GSI

**Baltimore, USA, IEEE International Conference on Plasma Sciences, June 28 –  
July 1, 2004**

R. Redmer, H. Reinholz, G. Röpke, R. Thiele, A. Höll  
Theory of X-ray Thomson Scattering in Dense Plasmas

**London, Great Britain, 31<sup>st</sup> EPS Conference on Plasma Physics and Controlled  
Fusion, June 28 – July 2, 2004**

D.H.H. Hoffmann  
Present and Future Perspectives for High Energy Density Physics with Intense Ion and  
Laser Beams

K. Weyrich  
Interaction Experiments of Heavy Ions with Shockwave-driven, Non-ideal Plasmas

M. Iberler, V. Arsov, R. Berezov, J. Jacoby, C. Teske  
Generation of Gas Discharge Plasma for Ion Beam Plasma Interaction Experiments

**Lucerne, Switzerland, 9<sup>th</sup> European Particle Accelerator Conference,  
July 5 - 9, 2004**

N.A. Tahir  
Interaction of the CERN Large Hadron Collider (LHC) with Solid Metallic Targets

S. Neff  
Heavy Ion Beam Transport in Plasma Channels

M. Droba, O. Meusel, U. Ratzinger, K. Volk  
High Current Ion Beams at Frankfurt

J. Thibus, A. Schempp  
Numerical Simulation for the Frankfurt Funneling Experiment

H. Zimmermann, U. Bartz, N. Mueller, J. Thibus, A. Schempp  
The Frankfurt Funneling Experiment

**Lübeck, Germany, XXII International Linear Accelerator Conference,  
August 16 – 20, 2004**

O. Meusel, A. Bechtold, H. Klein, J. Pozimski, U. Ratzinger, A. Schempp  
Low Energy Beam Transport Using Space Charge Lenses

A. Schempp, U. Bartz, N. Mueller, J. Thibus, H. Zimmermann  
The Frankfurt Funneling Experiment

**Rome, Italy, XXVIII European Conference of Laser Interaction with Matter  
(ECLIM), September 6 – 10, 2004**

O.N. Rosmej  
Radiation Dynamics of Fast Heavy Ions Interacting with Matter

**Kiel, Germany, International Workshop on Kinetic Theory of Non-ideal Plasmas ,  
September 27 – 29, 2004**

M. Kanopathipillai  
Physics of Collisionless Absorption in Solid Targets and Clusters

P. Mulser  
The Physics of Collisionless Absorption in Superintense Laser-Solid Target Interaction

D.O. Gericke  
Kinetic Approach to Temperature Equilibration in Dense Plasmas

W.-D. Kraeft  
Effective Potentials and Yuri Klimontovich

**Marburg, Germany, 85<sup>th</sup> Bunsen Discussion Meeting, September 15 - 17, 2004**

R. Redmer, H. Juranek, V. Schwarz, N. Nettelmann  
Pressure Dissociation and Ionization in Dense Hydrogen

**Daejong, Korea, IAEA TCM Meeting on Elements of Fusion Power Plants,  
October 11 – 15, 2004**

D.H.H. Hoffmann  
Beam Plasma Interaction Experiments en route to Inertial Fusion Energy

**Sydney, Australia, Int. Workshop: Fast High Density Plasma Blocks Driven by Picosecond Terawatt Lasers, November 29 - December 3, 2004**

D.H.H. Hoffmann

Particle Beam Generation with Intense Laser Pulses and PHELIX Project- Perspectives for High Energy Density Research with Intense Ion and Laser Beams

**Moscow, Russia, Annual Moscow Workshop on the Physics of Nonideal Plasmas, December 1 - 2, 2004**

D.Varentsov

Investigation on High Energy Density Matter Generated by Intense Heavy Ion Beams at GSI and at FAIR

**Abingdon, Oxford, Great Britain, Int. Plasma Physics Meeting and COST Action P14 Meeting at the Cosener's House, December 16. - 18, 2004**

P.Mulser

The Underlying Physics of Collisionless Laser-Matter Interaction

## DIPLOMA AND PHD-THESES

Serban Udrea

Elektrische Leitfähigkeit dichter, schwerioneninduzierter Plasmen  
PhD-Thesis, TU Darmstadt, January 2004

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Untersuchungen der Eigenschaften lasererzeugter Ionenstrahlen  
PhD-Thesis, TU Darmstadt, June 2004

Marius Schollmeier

Untersuchung schmalbandiger Linienstrahlung lasererzeugter, dichter Plasmen für  
Röntgenstreudiagnostik  
Diploma-Thesis, TU Darmstadt, November 2004

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Design und Aufbau eines Hochenergielasersystems  
Diploma-Thesis, Universität Heidelberg, August 2004

Jan Dietrich

Berechnung dreidimensionaler Potenziale, Trajektorien und Raumladungen zur  
Simulation von Ionenstrahlen in elektrischen und magnetischen Feldern  
Diploma-Thesis, Universität Frankfurt, 2004

Holger Zimmermann

Untersuchungen zum Strahlfunneling  
PhD-Thesis, Universität Frankfurt, 2004

G. Grubert

Temperaturrelaxation in dichten, partiell ionisierten Plasmen  
Diploma-Thesis, Universität Greifswald, September 2004

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Zustandsgleichung von Wasserstoff unter Megabar-Drücken  
PhD-Thesis, Universität Rostock, 2004



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Berezov, R.	EP-05, EP-11	Hoffmann, D.H.H.	EP-01, EP-06, EP-07, EP-08, EP-09, EP-02, EP-03, EP-10, AC-01, AC-02, AC-03, TT-01, TT-02, TT-03, TT-05, TT-12, TT-21, HW-01, HW-02, HW-03, TT-04
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Blazevic, A.	EP-01, EP-03, EP-07	Iberler, M.	EP-05
Bock, R.	EP-02	Ishiguro, S.	HW-05
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Bruske, C.	EP-02	Kelic, A.	TT-04
Cabellos, O.	EP-14	Kietzmann, A.	TT-07
Caird, J.	EP-02	Kindler, B.	TT-04
Caturla, M.J.	EP-14	Kluge, H-J.	EP-02
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Dafni, T.	HW-01	Kulevoy, T.	EP-04
Deutsch, C.	TT-01, TT-02, TT-03, TT-20	Kulish, M.	EP-06, EP-09, EP-10, TT-03
Diehl, A.	EP-13	Kunzer, S.	EP-02
Droba, M.	AC-04, AC-05	Kuster, M.	HW-01
Dubau, J.	TT-13	Kuybida, R.	EP-04
Efremov, V.	EP-07	Lambert, F.	TT-13
Fertman, A.	EP-04, EP-07	Lenglet, A.	TT-13
Firpo, M.-C.	TT-20	Lommel, B.	TT-04
Fisher, D.V.	HW-03, HW-04	Lomonosov, I.V.	EP-09, TT-01, TT-02, TT-03, TT-05
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Fortmann, C.	TT-08	Lotz, R.	EP-02
Fortov, V.E.	EP-09, TT-01, TT-02, TT-03, TT-05	Mancic, A.	HW-06
Fuchs, R.	EP-02	Marian, J.	EP-14
Gámez, M.L.	EP-14	Maron, Y.	HW-03
García-Herranz, N.	EP-14		
Geil, B.	TT-02		
Geißel, M.	EP-03		
Geissel, H.	TT-04		
Gericke, D.O.	TT-18, TT-19		
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Pikuz, S.	EP-07	Thiemer, U.	EP-02
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Reyes, S.	EP-14	Velarde, M.	EP-14
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		Wouchuk, G.	EP-12
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