

# Veröffentlichungen und Vorträge

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## Vorträge

### DESY-Kolloquien

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#### Kolloquium

H. WITTIG (Mainz)  
Kolloquium zum 80. Geburtstag von Prof. Hans Joos  
On the Origins of the Delta I = 1/2 Rule.  
23.01.2007

#### Kolloquium

S. BETHKE (Max-Planck Institut, München)  
QCD – The strong component of the Standard Model.

J. LYKKEN (Fermilab)  
From the Tera to the Planck Scale.  
29.05.2007

#### DESY Lecture Series in Memory of Prof. Dr. W. Jentschke

D. ZAJFMAN (The Weizmann Institute, Israel)  
Atomics and Molecular Physics with FEL: A New Opportunity for  
Laboratory Astrophysics.  
22.06.2007

#### Wissenschaftsforum

A. WAGNER, R.-D. HEUER, R. EICHLER,  
I. MELZER-PELLMANN  
Die Suche nach der Weltformel.  
28.06.2007

#### DESY Heinrich-Hertz Lecture on Physics

J. M. MALCADENA (Princeton – Institute for Advanced Study)  
QCD, Strings and Black Holes: A Connection Between Gauge  
Theories and Gravity.  
26.09.2007

#### Kolloquium

B. FOSTER (OXFORD), R.-D. HEUER, E. GALLO (FIRENZE)  
Colloquium on the occasion of the retirement of Bernd Löhr.  
09.10.2007

#### Seminar Datenverarbeitung in der Hochenergiephysik

R. BRUN (CERN)  
The Software challenges for the next decade.  
29.10.2007

#### WR/EWR

H. SCHLARB  
Award of the Björn-Wiik-Prize to Dr. Holger Schlarb  
Optical synchronization system with femtosecond precision for  
FLASH and the European XFEL.  
19.11.2007

### DESY-Seminare

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G. KRAMBERGER (Jozef Stefan Institute, Ljubljana)  
Development of position sensitive silicon detectors for SLHC.  
09.01.2007

E. GARUTTI  
Silicon-Photomultipliers technology and their application in high  
energy physics detectors.  
10.01.2007

S. BANERJEE (SLAC)  
Tau Physics at BaBar.  
16.01.2007

T. MÜLLER (Univ. Karlsruhe)  
News from the Top.  
17.01.2007

M. PAULINI (Carnegie-Mellon University, Pittsburgh)  
Recent B Physics from the Tevatron.  
23./24.01.2007

J. KÜHN (Univ. Karlsruhe)  
Precise Quark Masses: Why and How?  
30./31.01.2007

C. SCHWANENBERGER (Manchester/FNAL)  
Single Top production at the Tevatron.  
06.02.2007

C. SPIERING  
The European Roadmap for Astroparticle Physics.  
07.02.2007

J. VIRDEE  
Status of CMS.  
12.02.2007

H. FRITZSCH (LMU München)  
Constituent quarks as quasi-particles of QCD.  
13.02.2007

C. GRAH  
Summary of NSS 2006.  
14.02.2007

M. BRÄUER, T. ZEUNER (Siemens Medical, Erlangen)  
Particle Therapy with Proton and Ion Beams.  
20.02.2007

D. WICKE (Univ. Wuppertal)  
Single Top Production at the Tevatron.  
21.02.2007

- A. LONGHIN (Padova)  
First results from OPERA.  
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- C. SPIERING  
The European Roadmap for Astroparticle Physics.  
20.03.2007
- U. HUSEMANN (Yale Univ)  
The CDF Silicon Detector: Design – Operations – Studies.  
28.03.2007
- A. PENIN (Univ. Karlsruhe)  
Tabletop experiments vs. large accelerators in hunting for new physics.  
10.04.2007
- M. STARIC (Ljubljana Univ)  
Evidence for Mixing of Neutral D Mesons.  
11./17.04.2007
- A. LINDNER  
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- C. BLUME (Universität Frankfurt)  
Probing Quark Gluon Matter with the ALICE Experiment at the LHC.  
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- R. MILNER (MIT)  
Beyond the One Photon Approximation in Lepton Scattering: A Definitive Experiment.  
08./09.05.2007
- R. SAUERBREY (FZ Dresden-Rossendorf)  
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- U. UWER (Univ. Heidelberg)  
Physics at the LHC – A window to New Physics.  
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- G. PEARCE (RAL)  
The MINOS Experiment, Recent Results and Future Prospects.  
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- R. SAUERBREY (FZ Dresden-Rossendorf)  
Laser particle acceleration.  
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- J. MARKS (Univ. Heidelberg)  
Evidence for  $D^0 - \bar{D}^0$  Mixing at BaBar.  
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- L. LILJE  
Status of the ILC RDR and recent developments at LCWS07.  
19.06.2007
- W. BIALOWONS  
ILC RDR.  
20.06.2007
- D. ZAJFMAN  
Atomic and Molecular Physics with FEL: A New Opportunity for Laboratory Astrophysics  
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- M. KOBEL (TU Dresden)  
Higgs Searches beyond the Standard Model at LHC.  
26./27.06.2007
- C. DIACONU (H1; CPPM MARSEILLE), M. TURCATO (ZEUS; UNIVERSITÄT HAMBURG)  
Sneak Preview of Summer Conference Contributions: Results from H1 and ZEUS.  
17.07.2007
- D. CASSEL (Cornell University/CERN)  
New results from Cleo-c.  
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- C. SCHWICK (CERN)  
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16./17.10.2007
- T. SCHÖRNER-SADENIUS (Universität Hamburg)  
Jet physics at HERA.  
23.10.2007
- T. PLEHN (Univ. Edinburgh)  
New Physics at the LHC.  
24.10.2007
- R. THORNE (UCL)  
Parton densities for the LHC.  
30.10.2007
- K.-H. KAMPERT (Universität Wuppertal)  
Summary of the Cosmic Ray Conference.  
06.11.2007
- Y.-K. KIM  
Fermilab, the ILC, and Project X.  
07.11.2007
- H. OERTER (AWI Bremerhaven)  
Neumayer, Kohlen Station and 3000 Metres of Ice core – Revealing the Climate of the Past.  
07.11.2007
- C. HAST (SLAC)  
An Excursion into Tau Physics.  
13./14.11.2007
- D. ECKSTEIN (Universität Hamburg)  
The Vertex Locator (VELO) of the LHCb experiment.  
20.11.2007
- F. STEPHAN  
International status on photo injector optimization and recent PITZ highlights.  
21.11.2007
- C. CASELLA (Universität Genf)  
Measurement of the Muon Lifetime with FAST.  
27./28.11.2007
- F. SCHMIDT (Chicago Univ)  
Recent Auger results on the highest energy cosmic rays.  
05.12.2007
- K. OIDE AND M. YAMAUCHI (KEK)  
KEKB upgrade and its physics program.  
11.12.2007

S.M. KAHN  
The Large Synoptic Survey Telescope.  
12.12.2007

T. SCHOERNER-SADENIUS (Univ. Hamburg)  
QCD Studies with Jets at HERA.  
12.12.2007

S. TAPPROGGE (Universität Mainz)  
LHC upgrade scenarios – physics, machine and detector.  
18./19.12.2007

### Interne Vorträge

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K. HARDERS (Airbus, Hamburg)  
Airbus – ein Unternehmen stellt sich vor.  
31.01.2007

A. HOLTkamp, M. KÖHLER  
Open Access: Revolution of the publication landscape?  
28.03.2007

U. CABERTA (Behörde für Inneres, Hamburg)  
Scientology – der Griff nach Geld und Macht.  
09.05.2007

M. KALINOWSKI (Univ. Hamburg)  
Der Konflikt um das iranische Nuklearprogramm.  
16.05.2007

U. MEIXNER (Husum)  
Erneuerbare Energien – Viel Wind um wenig Leistung?  
29.08.2007

W. VON BERGEN, M. HOLLER (Hamburg)  
Dialogverfahren nach David Bohm.  
12.09.2007

J. MORGENTHAL, K. WESSLING (Hamburg)  
Mehr Durchblick und Sicherheit in der neuen deutschen  
Rechtschreibung.  
10.10.2007

I. WEIST, H. ROTHWEILER (Hamburg)  
Fit und gesund durch Medizinisches Qi Gong – Infoabend des  
Baihui-Zentrums Hamburg.  
31.10.2007

H. SPITZER  
Unsichtbare Hände bei DESY.  
14.11.2007

BRIAN ROBERTSON (TERNARY SOFTWARE), TOM THOMISON  
(HOLACRACYONE)  
Organization at the Leading Edge – Introducing Holacracy.  
06.12.2007

THEO SCHMITZ & TEAM  
Der Professor und der Weihnachtsmann.  
12.12.2007

### Öffentliche Abendvorträge

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A. LINDNER  
Kometen, Asteroiden, Meteore und Meteoriten.  
28.02.2007

M. KALINOWSKI (Univ. Hamburg)  
Kernwaffentestexplosion in Nordkorea.  
21.03.2007

M. TOLAN (Univ. Dortmund)  
Star Trek – Facts & Fiction.  
23.05.2007

J. LEMMERICH (Berlin)  
Aufrecht im Sturm der Zeit – der Physiker James Frank  
1882–1964.  
05.09.2007

U. BERGMANN (SLAC)  
Verborgen im mittelalterlichen Pergament: Röntgenstrahl enthüllt  
Archimedes älteste Schriften.  
11.09.2007

M. BESSENRODT-WEBERPALS (Hochschule für Angewandte  
Wissenschaften Hamburg)  
Kluge Frauen – erfolgreiche Männer. Die Situation von  
Physikerinnen in Deutschland.  
07.11.2007

V. EBERT (Frankfurt/Main)  
Denken lohnt sich Wissenschaft & Kabarett.  
22.11.2007

### BRIDFAS Lectures

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R. JOPPIEN  
Neue Englische Kunst: The Art Exchange of 1932.  
24.01.2007

S. RUMFITT  
The Romance of Nature: Early Victorian Jewellery.  
15.02.2007

C. WILLIAMSON  
From Blood and Sawdust to Lycra: Two Hundred Years of Plastics  
in Art and Design.  
15.03.2007

L. DARBYSHIRE  
Reveled to Revered: Monet in Paris and London.  
18.04.2007

C. BAILEY  
The Bayeux Tapestry.  
14.06.2007

J. KARCEWSKI  
Victorian Furniture – Why Victoria was not amused.  
24.10.2007

J. KARCEWSKI

The Life and Work of Thomas Chippendale.

27.10.2007

J. TAYLOR

Masters of the Sea: Highlights of Maritime Art from the 17th Century to the Present Day.

28.11.2007

### Vorträge Direktorium

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U. GENSCH

DESY's Research Programme.

Treffen der FCAL Collaboration, Zeuthen/DE (05/2007)

Forschung am DESY.

Treffen mit Wissenschaftsministerin Frau Prof. Wanka und dem CDU Kreisverband, Zeuthen/DE (07/2007)

R.-D. HEUER

Tracing Particles: Innovative Detectors for High Energy Physics. Festkolloquium MPI, München/DE (05/2007)

The International Linear Collider: Precision Physics at the Terascale.

Kolloquium am GSI, Darmstadt/DE (07/2007)

Highlights from the Summer Conferences 2007.

Scientific Policy Committee, CERN, Genf/CH (09/2007)

Particle Physics at DESY.

RECFA Meeting, Bonn/DE (10/2007)

C. SCHERF

Management of Large Infrastructure – A National Example.

4. EU-Konferenz ECRI, Hamburg/DE (06/2007)

Management of Large Infrastructure – A National Example.

Fachtagung des Wissenschaftsmanagements, Lovenovo de Menaggio/IT (07/2007)

J. SCHNEIDER

Freie-Elektronen Laser: Blitzlichter für die Nanowelt.

PTB Festkolloquium aus Anlass des 70. Geburtstages von Prof. Dr. B. Wende, Berlin/DE (02/2007)

The Free Electron Laser FLASH at DESY: Examples of Science and Possible Upgrades.

MIT Physics Department, Boston/USA (03/2007)

Science at Single Pass X-ray Free-Electron Lasers.

The Zurich Physics Colloquium, Zürich/CH (03/2007)

Science at FLASH, the VUV-FEL User Facility at DESY.

Scientific Opportunities at X-ray Free Electron Lasers, Madrid/ES (04/2007)

X-ray Free-Electron Lasers: Examples of Science at FLASH.

Symposium Modern X-ray Physics, Kopenhagen/DK (06/2007)

Photon Science am DESY: Resultate von FLASH.

Physikalisches Kolloquium und SFB-Kolloquium, Rostock/DE (06/2007)

X-ray Free-Electron Lasers in Hamburg: Results from FLASH.

Physikalisches Kolloquium Universität Göttingen, Göttingen/DE (07/2007)

Science Opportunities with X-ray Free-Electron Lasers.

NSF Advisory Panel on Light Source Facilities, Washington/USA (08/2007)

Accelerator Driven Light Sources: Introduction to Synchrotron Radiation and Free-Electron Lasers.

Institute of Physics and Astronomy, Vilnius/LT (11/2007)

Examples of Science at FLASH – Scientific Potential of the

European XFEL Facility in Hamburg.

Institute of Physics and Astronomy, Vilnius/LT (11/2007)

A. WAGNER

Forschung bei DESY.

Lion's Club Hamburg bei DESY, Hamburg/DE (04/2007)

Strategie des Programmbereichs Struktur der Materie.

Helmholtz-Senatskommission, Berlin/DE (04/2007)

Elektromagnetische Wellen – von Heinrich Hertz bis zum Röntgenlaser.

Heinrich-Hertz Gastprofessur Karlsruhe, Karlsruhe/DE (05/2007)

Tor zum Quanten-Universum.

Heinrich-Hertz Gastprofessur Karlsruhe, Karlsruhe/DE (05/2007)

Accelerator-Based Science.

Universite Paris Sud, Paris/FR (06/2007)

Filme der Nanowelt: Forschung mit Röntgenlasern heute und morgen.

Heinrich-Hertz Gastprofessur Karlsruhe, Karlsruhe/DE (06/2007)

Wissenschaftliche und technische Herausforderung des Linear Collider.

Heinrich-Hertz Gastprofessur Karlsruhe, Karlsruhe/DE (06/2007)

Wissenschaftsstandort Hamburg am Beispiel des DESY.

Wirtschaftsrat bei DESY, Hamburg/DE (09/2007)

International Collaborations – The Globalisation of Science Using Large Research Facilities.

Polish Academy of Arts and Sciences, Krakau/PL (10/2007)

HERA and Beyond.

INP Krakau, Krakau/PL (10/2007)

Neue Formen nationaler und internationaler Zusammenarbeit bei

DESY in Hamburg.

Tag des Wissenschaftsmanagements, Braunschweig/DE (10/2007)

Photographs and Movies of the Nanoworld – Research with X-rays at DESY.

Litauische Akademie der Wissenschaften, Vilnius/LT (11/2007)

From FLASH to the European X-ray Free Electron Laser Project.

Bulgarische Akademie der Wissenschaften, Sofia/BG (11/2007)

Filming the Nanoworld.

Slowakische Akademie der Wissenschaften, Bratislava/SK

(11/2007)

Vom Quark zum Kosmos – Beschleuniger erforschen das

Universum.

Physikalisches Kolloquium, Universität Stuttgart, Stuttgart/DE

(12/2007)

A. LINDNER

Kometen, Asteroide, Meteore und Meteoriten.

Deutsches Rotes Kreuz, Wedel/DE (01/2007)

DESY – Exploring the Structure of Matter.

Besuchergruppe der Carl Zeiss AG, Hamburg/DE (04/2007)

Forschung bei DESY.

Personalleitertagung der AVH Hamburg, Hamburg/DE (05/2007)

Kosmische Strahlung.

Linear Collider Workshop 2007, Hamburg/DE (06/2007)

The ALPS Project at DESY.

Seminar Hamburger Sternwarte, Hamburg/DE (06/2007)

Axion-Like Particle Search.

3rd Joint ILIAS-CERN-DESY Axion-WIMPs Training-Workshop,

Patras/GR (06/2007)

Astroparticle Physics.

DESY Summer Student Lectures, Hamburg/DE (07/2007)

Das grosse Ganze: Struktur und Entwicklung des Universums.

DESY Science Cafe, Hamburg/DE (09/2007)

Axion-Like Particle Search.

Cosmic Matter 2007, Würzburg/DE (09/2007)

DESY – Exploring the Structure of Matter.

ERID WATCH Midterm Review Meeting, Hamburg/DE (10/2007)

Forschung bei DESY.

Besuch der Handelskammer Hamburg, Hamburg/DE (12/2007)

DESY – Exploring the Structure of Matter.

Besuch von Studenten der Humboldt-Universität Berlin,

Hamburg/DE (12/2007)

# Forschung Hochenergiephysik

## H1-Experiment

### Veröffentlichungen

H1 COLLABORATION, F.D. AARON ET AL.

Charged Particle Production in High  $Q^2$  Deep-Inelastic Scattering at HERA.

Phys. Lett. B 654 (2007) 148 and DESY 07-065; arXiv:0706.2456

H1 COLLABORATION, A. AKTAS ET AL.

Tests of QCD Factorisation in the Diffractive Production of Dijets in Deep-Inelastic Scattering and Photoproduction at HERA.

Eur. Phys. J. C 51 (2007) 549 and DESY 07-018, hep-ex/0703022

Production of  $D^{*\pm}$  Mesons with Dijets in Deep-Inelastic Scattering at HERA.

Eur. Phys. J. C 51 (2007) 271 and DESY 06-240, hep-ex/0701023

Diffractive Open Charm Production in Deep-Inelastic Scattering and Photoproduction at HERA.

Eur. Phys. J. C 50 (2007) 1 and DESY 06-164, hep-ex/0610076

Inclusive  $D^{*\pm}$  Cross Sections and  $D^{*\pm}$ -Jet Correlations in Photoproduction at HERA.

Eur. Phys. J. C 50 (2007) 251 and DESY 06-110, hep-ex/0608042

Measurement of Inclusive Jet Production in Deep-Inelastic Scattering at High  $Q^2$  and Determination of the Strong Coupling.

Phys. Lett. B 653 (2007) 134 and DESY 07-073; hep-ex/0706.3722

Search for Baryonic Resonances Decaying to  $X_p$  in Deep Inelastic Scattering at HERA.

Eur. Phys. J. C 52 (2007) 507 and DESY 07-045; arXiv:0711.2606

Dijet Cross Sections and Parton Densities in Diffractive DIS at HERA.

JHEP 10 (2007) 042 and DESY 07-115; arXiv:0708.3217

Search for Lepton Flavour Violation in ep Collisions at HERA.

Eur. Phys. J. C 52 (2007) 833 and DESY 07-009, hep-ex/0703004

<http://dx.doi.org/10.1140/epjc/s10052-007-0440-2>

A. CALDWELL, G. GRINDHAMMER

In the Heart of Matter.

Physik Journal 6 (2007) 39

B.Z. KOPELIOVICH, I.K. POTASHNIKOVA, B. POVH,

I. SCHMIDT

Evidences for two Scales in Hadrons.

Phys. Rev. D 76 (2007) 094020 and arXiv:0708.3636

P.D. THOMPSON

Comparison of Inclusive Charm and Beauty Cross-Sections in Deep-Inelastic Scattering at HERA with Theoretical Predictions.

J. Phys. G, Nucl. Part. Phys. 34 (2007) N177-N192 and

hep-ph/0703103

### Preprints und Interne Berichte

H1 COLLABORATION, F.D. AARON ET AL.

Measurement of Deeply Virtual Compton Scattering and its  $t$ -Dependence at HERA.

DESY 07-142; arXiv:0709.4114

Measurement of Isolated Photon Production in Deep-Inelastic Scattering at HERA.

DESY 07-147

### Veröffentlichte Vorträge

**Proc. of DIS 2006, Tsukuba/JP (04/2006)**

World Scientific (2007)

L. BELLAGAMBA, E. SAUVAN, H. SPIESBERGER

Electroweak Physics and Physics Beyond the Standard Model. World Scientific (2007) 867 and hep-ph/0607273

V. CHEKELIAN, C. GWENLAN, R.S. THORNE

The Structure Functions and Low  $x$  Working Group Summary. World Scientific (2007) 839 and hep-ph/0607116

C. DIACONU

Search for Excited Neutrinos at HERA.

World Scientific (2007) 349 and hep-ex/0607047

T. KLUGE, K. RABBERTZ, M. WOBISCH

FastNLO: Fast pQCD calculations for PDF fits.

World Scientific (2007) 483 and DESY 06-186;

FERMILAB-CONF-06-352-E; hep-ph/0609285

H. LIM, L. SCHOEFFEL, M. STRIKMAN

Summary of the "Diffraction and Vector Mesons" Working Group at DIS06.

World Scientific (2007) 853 and hep-ph/0608107

J. OLSSON

A New Measurement of Exclusive  $\rho^0$  photoproduction at HERA.

World Scientific (2007) 243 and hep-ex/0610077

B. ROLAND

Deeply Virtual Compton Scattering at HERA II (H1 Results).

World Scientific (2007) 247 and hep-ex/0605096

E. SAUVAN

H1 Diffractive Structure Function Measurement from New Data.

World Scientific (2007) 211 and hep-ex/0607038

C. SCHMITZ

Inclusive Prompt Photon Production in Deep Inelastic Scattering at H1.

World Scientific (2007) 435 and hep-ex/0607093

D. SOUTH

New H1 Results on Isolated Leptons and Missing  $p_T$  HERA.

World Scientific (2007) 325 and hep-ex/0607020



**Proc. of DIS2007, Munich/DE (04/2007)**

Verlag Deutsches Elektronen-Synchrotron (2007)

DESY-PROC 07-01

A. BAGHDASARYAN

Inclusive Jet Production in Deep-Inelastic Scattering at Low and Medium  $Q^2$  at HERA.

Verlag Deutsches Elektronen-Synchrotron (2007) 1003

O. BEHNKE

Prospects of Future HERA Measurements.

Verlag Deutsches Elektronen Synchrotron DESY (2007) 1105

G. BRANDT

Multi-Lepton Production in ep Collisions at H1.

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J. DAINTON

LHeC: The Large Hadron-Electron Collider.

Verlag Deutsches Elektronen Synchrotron DESY (2007) 1167

Y. DE BOER

Search for Events with Isolated High  $P_T$  Leptons and Large  $P_T^{\text{miss}}$  using the H1 Detector at HERA.

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M. DEL DEGAN

Search for Baryonic Resonances to  $\Xi\pi$  in Deep-Inelastic Scattering at HERA.

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C. DIACONU

H1 Results from H1 Experiment at HERA.

Verlag Deutsches Elektronen Synchrotron (2007) 15

A. DUBAK

Search for Leptoquarks and Lepton Flavour Violation with the H1 Experiment at HERA.

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L. FAVART

Status of the H1 Very Forward Proton Spectrometer.

Verlag Deutsches Elektronen-Synchrotron (2007) 743

J. FELTESSE

Future Opportunities in DIS.

Verlag Deutsches Elektronen Synchrotron DESY (2007) 217

J. FERRANDO, T. NUNNEMANN, M. SPIRA, M. WESSELS  
Summary of the Electroweak and Beyond the Standard Model Working Group.

Verlag Deutsches Elektronen Synchrotron DESY (2007) 199

H. JUNG, M. HANSSON

Towards Precision Determination of uPDFs.

Verlag Deutsches Elektronen Synchrotron DESY (2007) 995 and arXiv:0707.4276

M. KLEIN

Parton Distributions at the LHeC.

Deutsches Elektronen Synchrotron DESY (2007) 1117

T. KLUGE

Inclusive Jet Production in DIS at High  $Q^2$  and Extraction of the Strong Coupling.

Verlag Deutsches Elektronen-Synchrotron (2007) 999

Summary of H1 Results on the Strong Coupling from Inclusive and Final States.

Verlag Deutsches Elektronen-Synchrotron (2007) 1095

K. KRÜGER

Review on Charmonium Production.

Verlag Deutsches Elektronen Synchrotron DESY (2007) 865

G. LI

Electroweak and QCD Combined Fit of HERA-II Data.

Verlag Deutsches Elektronen-Synchrotron (2007) 387

K. LIPKA

Charm Production in DIS at H1.

Verlag Deutsches Elektronen-Synchrotron (2007) 805

S.-O. MOCH, A. GLAZOV, K. NAGANO

Structure Functions and Low-x.

Verlag Deutsches Elektronen Synchrotron DESY (2007) 165 and DESY 07-106; arXiv:0707.4284

M. MOZER

Diffractive Dijets in DIS and PHP.

Verlag Deutsches Elektronen-Synchrotron (2007) 667

K. MÜLLER

Measurement of Isolated Photon Production in Deep Inelastic Scattering at HERA.

Verlag Deutsches Elektronen-Synchrotron (2007) 941

P. NEWMAN

Low x Physics at the LHeC.

Verlag Deutsches Elektronen Synchrotron DESY (2007) 1157

G. NOWAK

Three and Four Jet Production in Deep Inelastic Scattering and Low-x Parton Dynamics at HERA.

Verlag Deutsches Elektronen-Synchrotron (2007) 317

S. OSMAN

Mini-Jets in Deep Inelastic Scattering at HERA publication.

Verlag Deutsches Elektronen-Synchrotron (2007) 1011

N. RAICEVIC

H1 High y DIS Cross-Section Measurement with H1.

Verlag Deutsches Elektronen-Synchrotron (2007) 293

E. SAUVAN

A General Search for New Phenomena at HERA.

Verlag Deutsches Elektronen-Synchrotron (2007) 503

S. SCHMIDT

Charm Production with Jets at H1.

Verlag Deutsches Elektronen-Synchrotron (2007) 813

L. SCHOEFFEL

Deeply Virtual Compton Scattering at HERA II.

Verlag Deutsches Elektronen-Synchrotron (2007) 727 and hep-ex/0705.2925

M. STEDER

Inelastic Electroproduction of Charmonium at HERA.

Verlag Deutsches Elektronen-Synchrotron (2007) 911

P. THOMPSON

Diffractive Open Charm Production at H1.

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N. TRINH  
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A. VARGAS  
Measurement of the Inclusive ep Scattering Cross Section at Low  $Q^2$  and x at HERA.  
Verlag Deutsches Elektronen-Synchrotron (2007) 285

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J. BRANDT  
Exotic Physics at HERA.  
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- T. NAUMANN  
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- A. SCHÄLICHE  
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S. SCHUWALOW

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C. SPIERING

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F. STEPHAN

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New experimental highlights from PITZ.

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M. TLUCZYKONT

Estimation of High State Rates and Gamma-Ray Lightcurve archivation.

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M. VITI

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R. WISCHNEWSKI

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S. BÖSER

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C. DIEZ PARDOS

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R. FRANKE

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R. SCHMIDT

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R. SPESYVTSEV

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F. WENDT

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## Forschung mit Photonen

## HASYLAB

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- 4th French-Spanish Meeting on Solid State Chemistry and Physics, Bilbao/ES (04/2006)
- Goldschmidt2006, Melbourne/AU (08/2006)
- ICfe06, Wroclaw/PL (09/2006)
- SNI 2006, Hamburg/DE (10/2006)
- ILL Soft Matter Users Meeting, Grenoble/FR (11/2006)
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- Seminar at Karl-Franzens-University Graz, Institute for Chemistry, Graz/AT (01/2007)
- HASYLAB Usermeeting 2007, Satellite Meeting „Present Status and Future Perspectives of SAXS, WAXS, and GISAXS Experiments at HASYLAB“, Hamburg/DE (01/2007)
- National Conference on Atomic and Molecular Physics, Mumbai/IN (01/2007)
- 12th National Conference AISEM: Sensors and Microsystems, Naples/IT (02/2007)
- The electron localization function – theory and application, AK14 DGK workshop, Aachen/DE (02/2007)
- Workshop on Structural investigations of adamantine photovoltaic materials, Berlin/DE (02/2007)
- 18th Edgar Lüscher Seminar 2007, Klosters/CH (02/2007)
- Nano scale materials: growth dynamics magnetism, Grenoble/FR (02/2007)
- Workshop on X-ray absorption spectroscopy and theory of XAS, Villigen/CH (02/2007)
- ESRF Users' Meeting, Grenoble/FR (02/2007)
- Nanotechnology workshop of the Austrian Cluster of Excellence, Mühldorf/AT (02/2007)
- IAY 2007, Shizuoka Hamamatsu/JP (02/2007)
- Seminar on Fundamental Aspects on Materials and Energy, Delft/NL (02/2007)
- Synchrotron Workshop at La Trobe University, Melbourne/AU (02/2007)
- Frontiers in Medicinal Chemistry (medchem 2007), Joint German-Swiss Meeting on Medicinal Chemistry, Berlin/DE (03/2007)
- 51st Annual Meeting of the Biophysical Society, Baltimore/USA (03/2007)
- SSBA 07, Linköping/SE (03/2007)
- 1st Young Polymer Scientist Conference, Santiago De Compostela/ES (03/2007)
- 233rd ACS Spring Meeting, Chicago/USA (03/2007)
- 47th IUVESTA Workshop on Angle-Resolved XPS: The Current Status and Future Prospects for Angle-Resolved XPS of Nano and Subnano Films, Playacar/MX (03/2007)
- MIPP2007, Halle (Saale)/DE (03/2007)
- International conference on nanotechnology: science and application (NanoTech Insight'07), Luxor/EG (03/2007)
- Seminar Jülich Center of Neutron Science, München/DE (03/2007)
- DGK 2007, Bremen/DE (03/2007)
- DPG 2007, Regensburg/DE (03/2007)
- Verbundwerkstoffe und Werkstoffverbunde 2007, Bremen/DE (03/2007)
- GITC Nano-2007, Berlin/DE (03/2007)
- APS-2007 APS March Meeting, Denver/USA (03/2007)
- Symposium on Functional Polymer Based Materials, Jena/DE (04/2007)
- ISSTP07, Nova Gorica/SI (04/2007)
- 2007 Spring Meeting of the Materials Research Society, San Francisco/USA (04/2007)
- 2nd Annual Workshop Facilitating X-ray Biophotonics. Physicists and Biologists Working Together, Melbourne/AU (04/2007)
- Materials 2007, Porto/PT (04/2007)
- Lecture at L.N. Gumilyov Eurasian National University – Department of Physics, Astana/KZ (04/2007)
- FM&NT-2007, Riga/LV (04/2007)
- Faraday Discussion 136: Crystal Growth and nucleation, London/UK (04/2007)
- Study of Matter at Extreme Conditions 2007, Miami Beach/USA (04/2007)
- EGU, Vienna/AT (04/2007)
- 3rd Italy-Australia Workshop, Melbourne/AU (04/2007)
- Bunsentagung, Graz/AT (05/2007)
- E-MRS 2007, Strasbourg/FR (05/2007)
- 10th EMAS, Antwerp/BE (05/2007)
- 3rd Int. Symposium on Nanostructured and Functional Polymer-based Materials and Nanocomposites, Corfu/GR (05/2007)

- Workshop on Plant research in extreme conditions: fiziology, biochemistry and spectroscopic techniques, Ljubljana/SI (05/2007)
- FOA9, Guardini-Naxos/IT (05/2007)
- 2nd workshop on GISAXS as an advanced scattering method, Hamburg/DE (05/2007)
- International Workshop on Emerging New Science Fields: Synergy of National Light Sources in Europe, Berlin/DE (05/2007)
- ICSSC-5 and PCCG-8, Zakopane/PL (05/2007)
- PJG-CGM2, Zakopane/PL (05/2007)
- Nanotech 2007, Santa Clara/USA (05/2007)
- ECS211, Chicago/USA (05/2007)
- 8th ISSFIT, Vilnius/LT (05/2007)
- OMEE-2007, Lviv/UA (05/2007)
- Cmos – CGU – AMS – Congress 2007, St. John's/CA (05/2007)
- 37th Danish Crystallography Meeting, 9th DANSYNC Meeting, Copenhagen/DK (05/2007)
- ICPP 2007, Beijing/CN (05/2007)
- DIPAC 2007, Venice/IT (05/2007)
- Ti-2007, Kyoto/JP (06/2007)
- 99th Bunsen Discussion Meeting, Kloster Eberbach/DE (06/2007)
- SCINT-2007, Winston-Salem/USA (06/2007)
- 36th International School on Physics of Semiconductor Compounds, Jaszowiec/PL (06/2007)
- 1st School and Workshop on X-ray Micro and Nanoprobes: Instruments, Methodologies and Applications, Erice/IT (06/2007)
- International Workshop Coherence 2007, Pacific Grove/USA (06/2007)
- 3rd Ukrainian Conference on Semiconductor Physics, Odessa/UA (06/2007)
- DPC-07, Segovia/ES (06/2007)
- WDM07, Porquerolles/FR (06/2007)
- TXRF 2007, Trento/IT (06/2007)
- 49th Polish Crystallographic Meeting, Wroclaw/PL (06/2007)
- 2007 COMPRES Annual Meeting, Lake Morey/USA (06/2007)
- 4th European Conference on Neutron Scattering (ECNS2007), Lund/SE (06/2007)
- Workshop on Adhesion and Surface Functionalization of the European Society of Thin Films, Wörlitz/DE (06/2007)
- MATRAD 2007, Sinaia/RO (06/2007)
11. Tagung Deformation und Bruchverhalten von Kunststoffen, Merseburg/DE (06/2007)
- XIII ISPCS, Ustron/PL (06/2007)
81. Glastechnische Tagung, Aachen/DE (06/2007)
- KSUPS 2007, Poznan/PL (06/2007)
- Sitzung des FA 13 Eigenspannungen der AWT, Remscheid/DE (06/2007)
- SSI-16, Shanghai/CN (07/2007)
- ICVM8, Paris/FR (07/2007)
- French Polish Symposium on Spectroscopy of Modern Materials in Physics, Chemistry and Biology, Clermont-Ferrand/FR (07/2007)
- EBSA 2007, London/UK (07/2007)
- EPF 2007, Portoroz/SI (07/2007)
- ICCE-15, Haikou, Hainan Island/CN (07/2007)
- ICOOPMA 2007, London/UK (07/2007)
- 13th Czech and Slovak Conference on Magnetism, Kosice/SK (07/2007)
390. Wilhelm und Else Heraeus-Seminar on Strongly Correlated Plasmas, Bad Honnef/DE (07/2007)
- 3rd FRM 2 Workshop on Neutron Scattering, Burg Rothenfels am Main/DE (07/2007)
- Ultrasmooth Workshop, Krakow/PL (07/2007)
- GITC Nano-2007, Saint-Petersburg/RU (07/2007)
- IVC-17/ICSS-13, Stockholm/SE (07/2007)
- 13th Feofilov symposium on spectroscopy of crystals doped by rare earth and transition metal ions, Irkutsk/RU (07/2007)
- X-ray Conference, Denver, Colorado Springs/USA (07/2007)
- ICPEAC, Freiburg/DE (07/2007)
- VUV XUV, Berlin/DE (07/2007)
- Gordon Research Conferences, Electron distribution and chemical bonding 2007, South Hadley/USA (07/2007)
- ICG 2007, Strasbourg/FR (07/2007)
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- ECROFI-XIX, Bern/CH (07/2007)
- Goldschmidt2007, Cologne/DE (08/2007)
- REI 2007, Caen/FR (08/2007)
- FEL2007, Novosibirsk/RU (08/2007)
- Seminar at Max-Planck-Institute Golm, Golm/DE (08/2007)

- Moscow State University – Department of Physics, Moscow/RU (08/2007)
- NanoteC07, Brighton/UK (08/2007)
- ISSCG-13, Park City/USA (08/2007)
- EUROPACAT VIII, Turku/FI (08/2007)
- 13 UFPS, Vilnius/LT (08/2007)
- ISPC 2007, Kyoto/JP (08/2007)
- MIGRATION'07, Munich/DE (08/2007)
- Gordon Research Conferences on X-Ray, New London, NH/USA (08/2007)
- ECM24, Marrakech/Marokko (08/2007)
- CNT 2007, Cambridge/UK (09/2007)
- Jahrestagung der Deutschen Bodenkundlichen Gesellschaft, Dresden/DE (09/2007)
- GDCh-Wissenschaftsforum Chemie 2007, Ulm/DE (09/2007)
- Glyco Lipid Treffens am Institut für Organische Chemie Universität Hamburg, Hamburg/DE (09/2007)
- ICXOM2007, Kyoto/JP (09/2007)
- ESB 2007, Brighton/UK (09/2007)
- IP '07 - IUPAC International Symposium on Ionic Polymerization, Banz (Bayreuth)/DE (09/2007)
- FEL FRONTIERS 2007, Isola d'Elba/IT (09/2007)
- Seminar at Laboratori Nazionali Frascati, Frascati/IT (09/2007)
- ECASIA 07, Brussels/BE (09/2007)
- EASL 2007, Montpellier/FR (09/2007)
- 3rd International Workshop on IN-Situ Study and Development of Processes Involving Porous Solids (INSIDE-POReS), Alicante/ES (09/2007)
- E-MRS 2007, Warsaw/PL (09/2007)
- KSUPS-7, Poznan/PL (09/2007)
- AARD2007, Mühlhausen (Thüringen)/DE (09/2007)
- AAAR 2007, Reno NV/USA (09/2007)
- CEM 2007, Duebendorf/CH (09/2007)
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- 11th Dresden Polymer Discussion meeting Meissen, Meissen/DE (09/2007)
28. Arbeitskreistagung des Arbeitskreises 4 der Deutschen Gesellschaft für Kristallographie: Nichtkristalline und partiellkristalline Materialien, Wolfersdorf/DE (09/2007)
- FIO 2007, San Jose/USA (09/2007)
- 9th European Symposium on Polymer Blends, Palermo/IT (09/2007)
- ICPLC-RPNBM 07, Sevastopol/UA (09/2007)
- IMC-X, Lviv/UA (09/2007)
- ICCM'2007, Kharkov/UA (09/2007)
- Bilateral colloquium TUM-HASYLAB: The polymer-metal interface, München/DE (09/2007)
- Arsen 2007, Leipzig/DE (09/2007)
- ECCE-6, Copenhagen/DK (09/2007)
- SCS Fall Meeting, Lausanne/CH (09/2007)
- Euromat, Nürnberg/DE (09/2007)
- European Muscle Conference, Stockholm/SE (09/2007)
- DASIM 2007, Synchrotron SOLEIL – Saint-Aubin/FR (09/2007)
- International Workshop on Tethered Lipid Membranes, Tegernsee/DE (09/2007)
- 22nd European Photovoltaic Solar Energy Conference, Milano/IT (09/2007)
- 18th International School-Seminar on Spectroscopy of Molecules and Crystals, Beregove/UA (09/2007)
- Helmholtz Midterm Review of DORIS III, Hamburg/DE (09/2007)
- CSI XXXV, Xiamen/CN (09/2007)
- FNMA'07, Gdansk/PL (09/2007)
- 13th International Conference on II-VI Semiconducting Compounds, Jeju/KR (09/2007)
57. Tagung der Österreichischen Physikalischen Gesellschaft, Krems/AT (09/2007)
- EUROMAT 2007, Nürnberg/DE (09/2007)
- MECASSENS IV, Vienna/AT (09/2007)
- Bruker User Meeting at the Department of Chemistry, Göttingen/DE (10/2007)
- NCD07, Madrid/ES (10/2007)
- SLONANO2007, Ljubljana/SI (10/2007)
- mtd07, Orebro/SE (10/2007)
- Colloquia at Jozef Stefan Institute, Ljubljana/SI (10/2007)
- Synchrotron radiation and neutrons for cultural heritage studies, Grenoble/FR (10/2007)
- 3rd Japan-Hungary Joint Seminar on Physics in Modern Science and Technology : Progress in Science and Technology with Particle and Photon Beams, Debrecen-Szeged-Budapest/HU (10/2007)
- ICFPM 07, Rom/IT (10/2007)

- ICAME 2007, Kanpur/IN (10/2007)
- 12th International Topical Meeting on Optics of Liquid Crystals, Puebla/MX (10/2007)
- GADEST '07, Erice/IT (10/2007)
- Autumn School on Materials Science and Electron Microscopy „Microscopy – Advanced Tools for Tomorrow's Materials“, HU Berlin/DE (10/2007)
- 54th AVS international symposium and exhibition, Seattle/USA (10/2007)
- Advanced Light Source User Meeting 2007, Berkeley/USA (10/2007)
- Nanoworkshop, Kobe/JP (10/2007)
- ISMC 2007, Aachen/DE (10/2007)
- ProcessNet-Jahrestagung 2007, Aachen/DE (10/2007)
- From Clusters to catalysts – Transition metals and transition metal oxides, Erkner near to Berlin/DE (10/2007)
- Annual Meeting of the American Vacuum Society, Seattle/USA (10/2007)
- 212th Electrochemical Society Meeting, Washington DC/USA (10/2007)
- DARPA Workshop on Compact Methods of Producing Highly Collimated, Temporally Modulated or Monochromatic X-Ray Beams, Arlington/USA (10/2007)
- International Conference on Functional Materials, Crimea/UA (10/2007)
- Spring-8 10th Anniversary, Harima-Himeji/JP (10/2007)
- Size Strain V, Garmisch-Partenkirchen/DE (10/2007)
- Final Conference COST Action 535 Thermodynamics of Alloyed Aluminides (THALU) and 4th Discussion Meeting on the Development of Innovative Iron Aluminum Alloys, Interlaken/CH (10/2007)
- MRS Fall Meeting, Boston/USA (11/2007)
- BCA (British Crystallographic Association) CCG Autumn Meeting 2007, Chilton Oxfordshire/GB (11/2007)
9. Jülicher Werkstoffsymposium, Jülich/DE (11/2007)
- 2nd Meeting on Applied Physics, Podcetrtek/SI (11/2007)
- DECHEMA Hochschullehrernachwuchspreis, Weimar/DE (11/2007)
- RSNE 2007, Moscow/RU (11/2007)
- ECRN 2007, Melbourne/AU (11/2007)
- Synchrotron Facilities for the Development of Science and Technology in Central and Eastern Europe, Brno/CZ (11/2007)
- International Workshop on Spintronics with superconductors, Bochum/DE (11/2007)
- 6th National Conference on Application of X-rays, Synchrotron Radiation, Neutron and Electrons for Investigations of Materials, Moscow/RU (11/2007)
- Sitzung des FA 13 Eigenspannungen der AWT, Dresden/DE (11/2007)
- Zeit- und temperaturaufgelöste Röntgen-Pulver-Diffraktometrie VIII, Pfinztal/DE (11/2007)
2. FA-Sitzung „Strahllinien“ (DGM), Garching/DE (11/2007)
- Graduiertenkolleg 1355, Hamburg/DE (12/2007)
- International Workshop on Synchrotron High-Pressure Mineral Physics and Materials Science, Argonne/USA (12/2007)
- AGU Fall Meeting, San Francisco/USA (12/2007)
- Meeting of the Synchrotron Radiation Contact Group of NFSR (Belgium), Louvain-la-Neuve/BE (12/2007)
- Australian Synchrotron Research Program – Users Meeting 2007, Melbourne/AU (12/2007)
- LCN Science & Innovation Symposium, London Centre for Nanotechnology, London/UK (12/2007)
- 6th Physics Symposium at University of Maribor, Maribor/SI (12/2007)

### Habilitationen

- D. UHRIKOVA  
The structure of DNA-cationic liposomes aggregates.  
Faculty of Pharmacy Comenius University, Bratislava (2007)
- M. WILKE  
Untersuchungen zur Eisenspeziation in Mineralphasen unter besonderer Berücksichtigung der Röntgenabsorptionsspektroskopie (XAFS).  
Universität Potsdam (2007)

### Dissertationen

- J. BALOGH  
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Lund University (2004)
- N.S. BASTRIKOVA  
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Ural State Technical Univ., Yekaterinburg (2007)
- M. BERGH  
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Uppsala University (2007)

- A. BOSCHETTI-DE-FIERRO  
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Christian-Albrechts-Universität zu Kiel (2007)
- E. BUS  
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ETH Zürich, Zürich, Switzerland (2007)
- C. CALEMAN  
Towards Single Molecule Imaging – Understanding Structural Transitions Using Ultrafast X-ray Sources and Computer Simulations.  
Uppsala University (2007)
- J. CHWIEJ  
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FUNDP, University of Namur (2007)
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Stuttgart (2007)
- C.B. HÜBSCHLE  
Neue Ansätze zur Elektronendichtebestimmung: Entwicklung von Datenbankwendungen und grafischen Verfahren.  
FU Berlin (2007)
- T.B.S. JENSEN  
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University of Copenhagen (2007)
- R. KESKA  
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Technische Universität Dresden (2006)
- A.I. KUKHARENKO  
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Ural State Technical Univ., Yekaterinburg (2007)
- S. LEPOUTRE  
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Blaise pascal (Clermont II) (2007)
- M. PANDA  
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Universität Hamburg (2006)
- A. POTDEVIN-CAUMOND  
Synthese par voie sol-gel et caracterisation de materiaux luminescents nanostructures applicables dans une nouvelle generation de lampes propres.  
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- D.C. RADU  
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Utrecht University, the Netherlands (2007)
- S. SCHEINS  
Ergebnisse experimenteller Elektronendichtebestimmungen von gespannten Kohlenstoffring- und Käfigsystemen.  
FU Berlin (2007)
- G.T. SCHMIDT  
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Universitaet Mainz (2007)
- K.A. SCHOENAU  
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TU Darmstadt (2007)
- E.S. SHLYGIN  
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Ural State Technical University, Yekaterinburg (2006)
- D.M. TROTS  
Structure and lattice dynamics of copper- and silver-based superionic conducting chalcogenides.  
TU Darmstadt (2007)
- E. WILD  
Beanspruchungsbedingte Gefügeänderungen von ferritisch-perlitischen Stählen am Beispiel des Rad-Schiene-Kontaktes.  
TU Berlin (2007)
- Diplomarbeiten**
- T. BASYUK  
Crystal structure and phase transitions in  $\text{PrAlO}_3$ -based solid solutions.  
Lviv Polytechnic National University (2007)

J. BRENDT

In situ XAS-Messungen am  $\text{Ga}_2\text{O}_3 - \text{GaN}$  – Phasensystem.  
RWTH Aachen University (2007)

M. CALCAGNOTTO

Microstructure and Texture Examination of Materials Treated  
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Göttingen (2007)

S. HEMES

Untersuchungen zur Mikrostruktur natürlicher Gashydrate.  
Göttingen (2007)

M. LAURENTI

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University of Perugin, Italy (2007)

O. POLYAKOV

Luminescence of Europium complex compounds.  
Faculty of Physics, Kyiv National Taras Shevchenko University, 2  
block 1, Acad. Hlushkov ave., Kyiv 03680, Ukraine (2007)

C. PROFF

Einfluss von Mischzeit und Anpressdruck im Herstellungsprozess  
auf Struktur und Aktivität von Pt/C + Ru/C Mischungen.  
TU Darmstadt (2007)

V. RODRIGUEZ-AMOR

Synthesis and Characterization of Liquid Crystalline Copolyesters.  
Complutense of Madrid (2007)

M. RUDERER

Strukturierung von halbleitenden Polymerfilmen für die  
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TU München (2007)

S. STASHENKO

Peculiarities of luminescence of  $\text{Eu}^{3+}$  surrounded by complex  
ligands.  
Faculty of Physics, Kyiv National Taras Shevchenko University, 2  
block 1, Acad. Hlushkov ave., Kyiv 03680, Ukraine (2007)

T. TATARYN

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