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Robert Thiele, Alexander Wagner

PubDB Trainingskurs 2014

Hamburg, 21.10.2014

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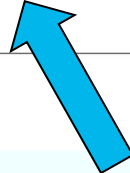
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Submit: Import data

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Journal Article

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Dublettencheck!!

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Joint European XFEL and DESY Photon Science Users' Meeting 2013 / Laasch, Wiebke; Synchrotron radiation news 26 45 - 48; Philadelphia, Pa.: Taylor & Francis, 2013; 10.1080/08940886.2013.791220;

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Neue Einträge

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Upgrade of the x-ray fluorescence beamline at HASYLAB/DESY / Falkenberg, G.; X-ray spectrometry 30 170 - 173; New York, NY [u.a.]: Wiley, 2001; 10.1002/xrs.482;

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Abschicken zum Staff



Import data DOI, arXiv, PUBMED...

Group(s) directly involved *
Select or type in name, shortcut (e.g. ATLAS, FS-PE, MKK)

Beamline/Experiment/Facility *
Select PETRA beamline, HERA, facility machine, ...

POF: Topic/Research Theme/Facility *
Select from list or type ID, Name of POF-Topic...

Grant name / Proposal No.
EU project, FS proposal number (e.g. I-20120768)

Report Number
DESY-THESIS-001, arXiv-No.

Author(s) / Editor(s) *
Start typing lastname and select...

Title *

Title preview:

Journal * Type name, issn...; use "" for exact match or fields e.g. title:"nature"

DOI Use Import data for automatic prefill

Volume * **Issue** **Pages *** e.g 47-103

Publication Year * yyyy **Language** Click to select... **Publisher** Forschungszentrum Jülich, Verlag

Place of publication Jülich

Abstract

URL

Additional information for library
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Import Möglichkeit: DOI

APS » Journals » Phys. Rev. A » Volume 86 » Issue 3

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Phys. Rev. A 86, 033411 (2012) [8 pages]

Effect of screening by external charges on the atomic orbitals and photoinduced processes within the Hartree-Fock-Slater atom

Abstract

References

Citing Articles (4)

Download: PDF (559 kB) Export: BibTeX or EndNote (RIS)

Robert Thiele^{1,*}, Sang-Kil Son¹, Beata Ziaja^{1,2}, and Robin Santra^{1,3}

¹Center for Free-Electron Laser Science, DESY, 22607 Hamburg, Germany

²Institute of Nuclear Physics, Polish Academy of Sciences, Radzikowskiego 152, 31-342 Kraków, Poland

³Department of Physics, University of Hamburg, 20355 Hamburg, Germany

Received 7 June 2012; published 10 September 2012

X-ray free-electron lasers (XFELs) are a promising tool for the structural determination of macro- and biomolecules, using coherent diffractive imaging. During imaging, the intense XFEL pulses also efficiently ionize the molecules, so it is important to estimate how the charged environment within the molecule modifies atomic properties, in comparison to the case of an isolated atom. Here, we apply the `XATOM` toolkit to obtain predictions on the modified ionization thresholds and rates of some photoinduced processes in carbon. The Hartree-Fock-Slater model is extended to include the electron screening and ion correlation effects, induced by external charges. With this extended model, we obtain predictions on modifications of orbital energies, photoabsorption cross sections, Auger decay rates, fluorescence emission rates, and atomic scattering factors as a function of the density and temperature of the surrounding charges. Our results have implications for the studies of dynamics within XFEL irradiated samples, in particular for those dedicated to coherent diffraction imaging.

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URL: <http://link.aps.org/doi/10.1103/PhysRevA.86.033411>

DOI: 10.1103/PhysRevA.86.033411

10.1103/PhysRevA.86.033411

*robert.thiele@cfel.de

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PHYSICAL REVIEW A 86, 033411 (2012)

Effect of screening by external charges on the atomic orbitals and photoinduced processes within the Hartree-Fock-Slater atom

Robert Thiele,^{1,*} Sang-Kil Son,¹ Beata Ziaja,^{1,2} and Robin Santra^{1,3}

¹Center for Free-Electron Laser Science, DESY, 22607 Hamburg, Germany

²Institute of Nuclear Physics, Polish Academy of Sciences, Radzikowskiego 152, 31-342 Kraków, Poland

³Department of Physics, University of Hamburg, 20355 Hamburg, Germany

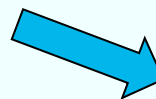
(Received 7 June 2012; published 10 September 2012)

X-ray free-electron lasers (XFELs) are a promising tool for the structural determination of macro- and biomolecules, using coherent diffractive imaging. During imaging, the intense XFEL pulses also efficiently ionize the molecules, so it is important to estimate how the charged environment within the molecule modifies atomic properties, in comparison to the case of an isolated atom. Here, we apply the `XATOM` toolkit to obtain predictions on the modified ionization thresholds and rates of some photoinduced processes in carbon. The Hartree-Fock-Slater model is extended to include the electron screening and ion correlation effects, induced by external charges. With this extended model, we obtain predictions on modifications of orbital energies, photoabsorption cross sections, Auger decay rates, fluorescence emission rates, and atomic scattering factors as a function of the density and temperature of the surrounding charges. Our results have implications for the studies of dynamics within XFEL irradiated samples, in particular for those dedicated to coherent diffraction imaging.

DOI: 10.1103/PhysRevA.86.033411

PACS number(s): 32.90.+a, 32.80.Fb, 87.59.-e, 87.15.ag

10.1103/PhysRevA.86.033411



Import data ⓘ

DOI, arXiv, PUBMED...



Import Möglichkeit: INSPIRE URL



The screenshot shows the INSPIRE website interface. At the top, the browser address bar displays inspirehep.net/record/1223519, which is circled in red. Below the browser bar is the INSPIRE logo and a welcome message. A navigation bar contains links: HEP, HEPNames, INSTITUTIONS, CONFERENCES, JOBS, EXPERIMENTS, JOURNALS, and Hilfe. On the left, a sidebar has tabs for Information, Referenzen (62), Zitationen (62), Dateien, and Plots. The main content area displays the title "Search for supersymmetry in hadronic final states with missing transverse energy using the variables AlphaT and b-quark multiplicity in pp collisions at 8 TeV" by the CMS Collaboration (Serguei Chatrchyan et al.), with a link to "Zeige alle 2186 Autoren". It also shows the publication date (Mar 12, 2013 - 43 pages), the journal reference (Eur.Phys.J. C73 (2013) 2568 (2013-09)), the DOI (10.1140/epjc/s10052-013-2568-6), the CMS-SUS-12-028 identifier, the CERN-PH-EP-2013-037 identifier, the e-Print link (arXiv:1303.2985 [hep-ex]), a PDF link, and the experiment (CERN-LHC-CMS). On the right, there is an "Import data" button with an information icon and a text input field containing "DOI, arXiv, PUBMED...".

<http://inspirehep.net/record/1223519>



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Home > Documents in process > Untersuchung des Verhaltens von Streamerkammern bei verschiedenen Gaszusammensetzungen

Information | Discussion (0) | Usage statistics | Files | Plots

Diploma Thesis/Internal Report

PUBDB-2014-03626

Untersuchung des Verhaltens von Streamerkammern bei verschiedenen Gaszusammensetzungen

Poon, R. (Corresponding Author)

1995

(1995)

Report No.: PUBDB-2014-03626, WU D 95-8

Keyword(s): Unveröffentlichte Hochschulschrift

Note: Betrifft nicht POF II/Notional starting date
Note: Univ. of Wuppertal, Diplomarbeit, 1995

Contributing institute(s):

1. H1 Experiment (H1(-2012))

Research Program(s):

1. Experiment H1-ERA (H1) (POF2-511) (POF2-511)

Experiment(s):

The record appears in these collections:

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POF: Topic/Research Theme/Facility * ⓘ
Select from list or type ID, Name of POF-Topic...

Grant name / Proposal No. ⓘ
EU project, FS proposal number (e.g. I-20120768)

Report Number ⓘ
DESY-THESIS-001, arXiv-No.

Author(s) / Editor(s) * ⓘ ⓘ

Zhang, J. -> Zhang, Jian (>Extern / HASYLAB HAS-User) Corresponding Author	✓	✕
Fretwurst, E. -> Fretwurst, Eckhart (>Extern / UNI/EXP ZEUS/HH) Author	✓	✕
Graafsma, H. -> Graafsma, Heinz (DESY / FS-DS) Author	✓	✕
Klanner, R. -> Klanner, Robert (>Extern / UNI/EXP) Author	✓	✕
Kopsalis, I. -> Kopsalis, Ioannis (>Extern / UNI/EXP) Author	✓	✕
Schwandt, J. -> Schwandt, Joern (>Extern / UNI/EXP) Author	✓	✕

Start typing lastname and select...

Title * ⓘ
Study of X-ray radiation damage in the AGIPD sensor for the European XFEL

Title preview:
Study of X-ray radiation damage in the AGIPD sensor for the European XFEL

Journal * ⓘ Journal of Instrumentation

DOI ⓘ 10.1088/1748-0221/9/05/C05022

Volume * ⓘ 9 **Issue** ⓘ 05 **Pages *** ⓘ C05022 - C05022

Publication Year * ⓘ 2014 **Language** ⓘ Click to select... **Publisher** ⓘ Inst. of Physics

Place of publication ⓘ London

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Journal Article

Import data ¹ [DOI, arXiv, PubMed]

Group(s) involved * ¹ [ATLAS, CPCL, MAMI]

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Grant name / Proposal No. ¹ [EU project, FS proposal number] Report Number ¹ [DESY-THESIS-001 / arXiv-No.]

Author(s) / Editor

Edit Author: ¹

Thiele, Robert
Corresponding

Son, Sang-Kil
1) Author

Ziata, Beata
CFEL-3) Author

Santana, Robin
3) Author

Author

Select Author:
Son, Sang-Kil -> Son, Sang-Kil (>DESY, >CFEL / FS-CF)

Institution:
>DESY: Deutsches Elektronen-Synchrotron
>CFEL: Centre for Free-Electron Laser Science
Choose from list or enter search term

OK

Title * ¹ [Effect of spin-orbit interaction on the electronic structure of atomic orbitals]

Journal * ¹ [Physical review / A]

DOI ¹ [10.1103/PhysRevA.86.03]

Volume * ¹ [86] Issue ¹ [3] Pages * ¹ [033411]

Publication Year * ¹ [2012] Language ¹ [Click to select] Publisher ¹ [APS]

Place of publication ¹ [College Park, Md.]

Abstract ¹

Autorentyp auswählen:
z.B. Editor, Co-Autor,...

Institut auswählen:
Mehrfachauswahl möglich

Submit: Vorauswahl

Group(s) directly involved *

Select or type in name,shortcut (e.g. ATLAS,FS-PE,MKK)

DOOR: DOOR-User

FS-BT: FS-Beamline Technology

FS-CXS: Coherent X-ray Scattering

FS-DO: FS-Experimentebetreuung DORIS

FS-DS: FS-Detektor Systeme

FS-EC: FS-Experiment Control

FS-FL: Experimentebetreuung FLASH

- Vorauswahl der Gruppen

Beamline/Experiment/Facility *

Select PETRA beamline, HERA, facility machine,...

523 - High-energy gamma ray astronomy (POF II: 2010 - 2014)

541 - Photons (POF II: 2010 - 2014)

DORIS Beamline A1 (POF II: 2010-2014)

DORIS Beamline A2 (POF II: 2010-2014)

DORIS Beamline B1 (POF II: 2010-2014)

DORIS Beamline B2 (POF II: 2010-2014)

- Vorauswahl von Beamline/ Experiment/Facility
- Noch POF2!!

Author(s) / Editor(s) *

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mueller [Extern] Corresponding Author

mueller -> Mueller, Katharina (>Extern / H1/ZUER) Corresponding Author

mueller -> Mueller, Bodo (DESY / BAU) Corresponding Author

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Grant name / Proposal No. ⁱ

EU project, FS proposal number (e.g. I-20120768)

Author(s) / Editor(s) *

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Title *

Title preview:

Journal * ⁱ Type name, issn...; use "" for exact match or fields e.g. title:"nature"

DOI ⁱ Use Import data for automatic prefill

Volume * ⁱ Issue ⁱ Pages * ⁱ e.g 47-103

Publication Year * ⁱ yyyy Language ⁱ Click to select... Publisher ⁱ Forschungszentrum Jülich, V

Place of publication ⁱ Jülich

Abstract ⁱ

URL ⁱ



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Journal Article

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POF: Topic/Research Theme/Facility * ⓘ
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Grant name / Proposal No. ⓘ
EU project, FS proposal number (e.g. I-20120768)

Report Number ⓘ
DESY-THESIS-001, ...-No.

Author(s) / Editor(s) * ⓘ
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Title * ⓘ
Title preview:

Journal * ⓘ Type name, issn...; use "" for exact match or fields e.g. title:"nature"

DOI ⓘ Use Import data for automatic prefill

Volume * ⓘ **Issue** ⓘ **Pages *** ⓘ e.g. 47-103

Publication Year * ⓘ yyyy **Language** ⓘ Click to select... **Publisher** ⓘ Forschungszentrum Jülich, Verlag

Place of publication ⓘ Jülich

Abstract ⓘ

URL ⓘ

POF: Topic/Research Theme/Facility * ⓘ
Select from list or type ID, Name of POF-Topic...

- 611 - Fundamental Particles and Forces (POF III: 2015 - 2019)
- 613 - Matter and Radiation from the Universe (POF III: 2015 - 2019)
- 6211 - Extreme States of Matter: From Cold Ions to Hot Plasmas (POF III: 2015 - 2019)
- 6212 - Quantum Condensed Matter: Magnetism, Superconductivity (POF III: 2015 - 2019)
- 6213 - Materials and Processes for Energy and Transport

Neues POF3-Feld:

➤ Hochenergiephysik:

- POF3-611 – Fundamental Particles...

➤ Zeuthen /Astro:

- POF3-613 – Matter and Radiation...

➤ M-Bereich:

- POF3-631 – Accelerator R&D
- POF3-632 – Detector Technology...

➤ Photon Science:

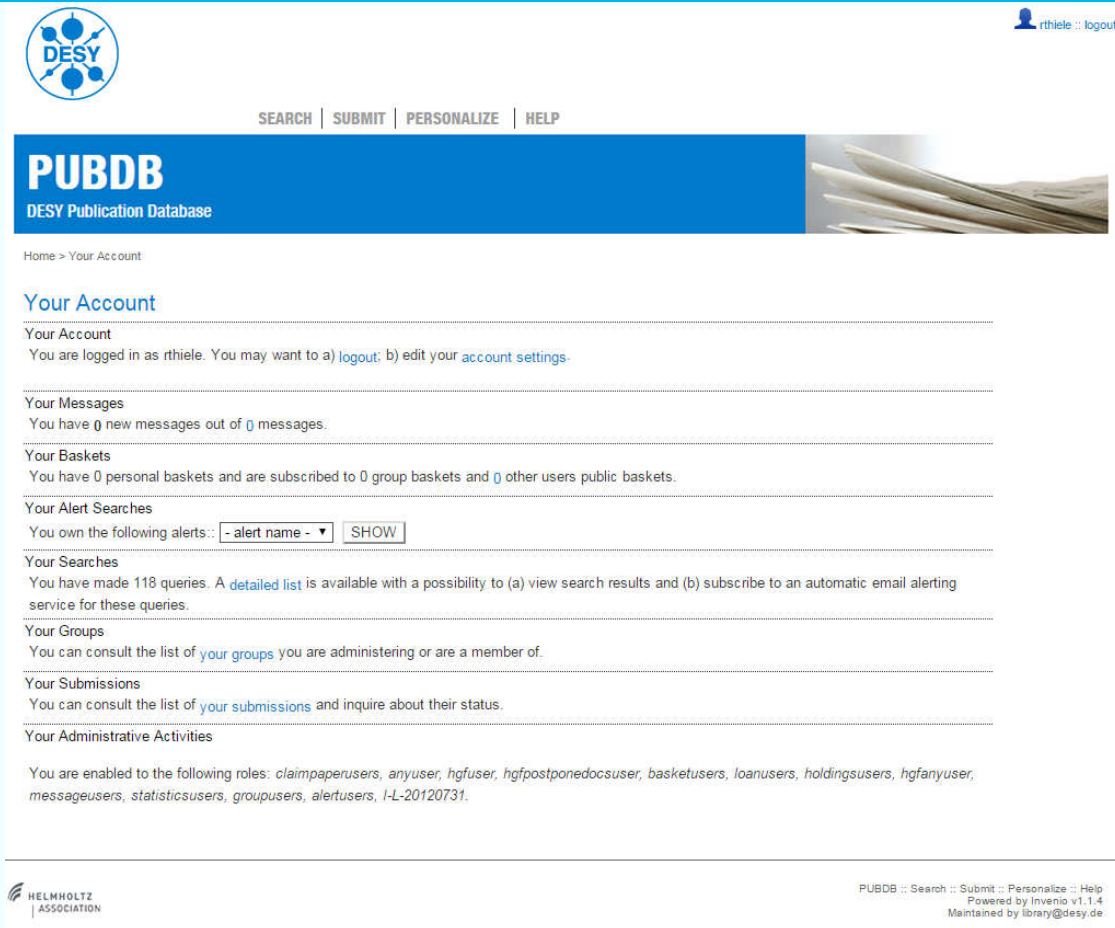
- POF3-6211 – POF3-6215 Research Topics

➤ LK2 (Nutzerbetrieb):

- POF3-6G1 - TIER II, POF3-6G2 – FLASH, POF3-6G3 – PETRA III, POF3-6G13 - XFEL



PubDB: Accountbereich

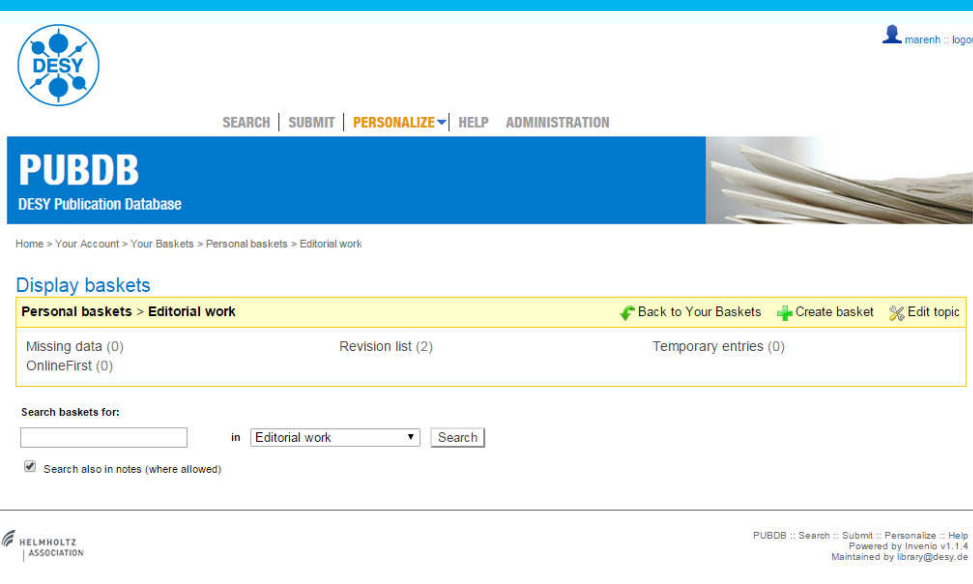


The screenshot shows the PubDB account page. At the top left is the DESY logo. To its right is a user profile icon and the text 'rthiele :: logout'. Below the logo is a navigation bar with links: SEARCH | SUBMIT | PERSONALIZE | HELP. The main header is a blue bar with 'PUBDB' in large white letters and 'DESY Publication Database' in smaller white letters. Below the header is a breadcrumb trail: Home > Your Account. The main content area is titled 'Your Account' and contains several sections: 'Your Account' (logged in as rthiele, links to logout and account settings), 'Your Messages' (0 new messages out of 0 messages), 'Your Baskets' (0 personal baskets, 0 group baskets, 0 other users public baskets), 'Your Alert Searches' (dropdown menu for alert name, SHOW button), 'Your Searches' (118 queries, link to detailed list), 'Your Groups' (link to your groups), 'Your Submissions' (link to your submissions), and 'Your Administrative Activities' (list of roles: claimpaperusers, anyuser, hgfuser, hgfpstonedocuser, basketusers, loanusers, holdingsusers, hgfanyuser, messageusers, statisticsusers, groupusers, alertusers, I-L-20120731). At the bottom left is the HELMHOLTZ ASSOCIATION logo. At the bottom right is the text: PUBDB :: Search :: Submit :: Personalize :: Help, Powered by invenio v1.1.4, Maintained by library@desy.de.

- Setup der Alerts (→“Your Alerts”)
- Zur Revision-Liste (→“Your Baskets ”)



PubDB: Die Basket-Funktion



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Editorial work:

- **Revision list:** “released” Artikel werden automatisch nach 15min von der Revision-Liste gelöscht
- **Missing data:** ein guter Ort zum Hinschieben von unvollständigen Records
- **OnlineFirst:** Online First Artikel von Revision-Liste hineinschieben (hier fehlen noch Seitenzahlen etc.)
- **Temporary Entries:** temporäre Einträge

Display baskets

Personal baskets > Preprints which are found in INSPIRE as Published

Preprints (1)

Preprints  Add item  Edit basket  Delete basket

1 items, no notes yet

last update: 04 Nov 2013, 17:33

1. Missing Publications

This item was generated automatically

URL: <http://inspirehep.net/record/1208735>

  Add a note...

 Add item  Edit basket  Delete basket

Preprints:

- Mögliche fehlende Publikationen, welche auf der PubDB nur als Preprint gefunden wurden, aber schon veröffentlicht sind



Die "Revision list"

Display baskets

Personal baskets > Editorial work [Back to Your Baskets](#) [Create basket](#) [Edit topic](#)

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missing POF/RT (3)

OnlineFirst (1)
Revision list (9)

Temporary entries (3)

Revision list
9 items, no notes yet
last update: 14 Oct 2014, 14:15

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- [DESY-2014-01891] Contribution to a conference proceedings/Contribution to a book
Mann, K. ; Flöter, B. ; Mey, T. ; et al
Hartmann wavefront sensor for EUV radiation
Proceedings of SPIE
Extreme Ultraviolet (EUV) Lithography IV, San Jose, California, 8679, (2013) [10.1117/12.2011508] [LIBRARIES PDF](#) [Fulltext](#)
[Copy item](#) [Remove item](#)
- [DESY-2014-01915] Contribution to a conference proceedings/Contribution to a book
Raimondi, L. ; Svetina, C. ; Mahne, N. ; et al
K-B bendable system optimization at FERMI@Elettra FEL: impact of different spatial wavelengths on the spot size
Proceedings of SPIE: Optical Engineering + Applications
Advances in X-ray/EUV Optics and Components VIII, San Diego, California, (2013) [10.1117/12.2023024] [LIBRARIES PDF](#) [Fulltext](#)
[Copy item](#) [Remove item](#)
- [DESY-2014-03369] Contribution to a conference proceedings
Juranic, P. ; Abela, R. ; Ischebeck, R. ; et al
THz Streak Camera for FEL Temporal Diagnostics: Concepts and Considerations
36th International Free Electron Laser Conference, FEL 2014, Basel, Switzerland, 08/25/2014 - 08/29/2014 (2014)
The accurate, non-destructive measurements of FEL pulse length and arrival time relative to an experimental laser are necessary for operators and users alike. The FEL operators can get a better understanding of their machine and the optics of an FEL by examining the pulse length changes of the photons coming to the user stations, and the users can use the arrival time and pulse length information to better understand their data. [...]
Fulltext: [PDF](#); External link: [Fulltext](#)
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- [DESY-2014-03784] Journal Article
Feneberg, M. ; Osterburg, S. ; Romero, M. F. ; et al
Optical properties of magnesium doped AlxGa1-xN (0.61 ≤ x ≤ 0.73)
Journal of applied physics 116(14), 143103 - (2014) [10.1063/1.4897449] [LIBRARIES PDF](#) [Fulltext](#)
[Copy item](#) [Remove item](#)
- [DESY-2014-03782] Contribution to a book
Stana, M. ; Ross, M. ; Sepiol, B.
Atomic Migration Studies with X-Ray Photon Correlation Spectroscopy
Diffusion Foundations 2, (2014) [10.4028/www.scientific.net/DF.2.73] [LIBRARIES PDF](#) [Fulltext](#)
The new technique of atomic-scale X-ray Photon Correlation Spectroscopy (aXPCS) makes use of a coherent X-ray beam to study the dynamics of various processes in condensed matter systems. Particularly atomic migration mechanisms are still far from being understood in most of intermetallic alloys and in amorphous systems. Special emphasis must be given to the opportunity to measure atomic diffusion at relatively low temperatures where such measurements were far out of reach with previously established methods. [...]
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- [PUBDB-2014-03434] Review/Contribution to a book
Fischer, G. ; Selvadurai, U. ; Nellesen, J. ; et al
Analysis of stress gradients in physical vapour deposition multilayers by X-ray diffraction at fixed depth intervals
J. Appl. Cryst. (2014) [10.1107/S1600576713030951] [LIBRARIES PDF](#) [Fulltext](#)
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Journal Article PHPPUBDB-14596

Thomson scattering on inhomogeneous targets

Thiele, R. ^{*}; Sperling, P.; Chen, M. W.; Bornath, T.; Faeustlin, R. R.; Fortmann, C.; Glenzer, S. H.; Kraeft, W.-D.; Pukhov, A.; Toleikis, S. ^{*}; Tschentscher, T. ^{*}; Redmer, R.

2010
APS College Park, Md.

Physical review / E 82, 056404 (2010) [10.1103/PhysRevE.82.056404] 

Please use doi:10.1103/PhysRevE.82.056404 in citations.

Report No.: PHPPUBDB-14596

Contributing Institute(s):

1. European XFEL (XFEL(-2012))
2. Experiments with synchrotron radiation (HASYLAB(-2012))

Research Program(s):

1. FLASH Beamline BL2 (POF2-54G16) (POF2-54G16)

Experiment(s):

Appears in the scientific report 2010

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Talk (non-conference) DESY-2014-03786

PubDB Training 2014

[Thiele, R.](#) (Corresponding Author) * ; [Wagner, A.](#) *

Report No.: DESY-2014-03786

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- [Bibliothek und Dokumentation \(L\)](#)

Research Program(s):

- No facility / HGF program None (POF2-890) (POF2-890)
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