

PubDB Training 2014

Robert Thiele, Alexander Wagner
PubDB Trainingskurs 2014
Hamburg, 21.10.2014



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Journal Article

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Group(s) directly involved *

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

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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) *

Start typing lastname and select...

Title *

Title preview:

Journal *

DOI

Volume * Issue Pages *

Publication Year * Language Publisher

Place of publication

Abstract

URL

Additional information for library

e.g. info about Copyright, Onlinefirst, ...

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Postpone

Import data:

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 ;

Carefully check and confirm (✓) or edit (✎) the authors displayed in red after the import

Potential duplicate record(s):

- 152033

Import Discard

Neue Einträge

Import data:

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 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

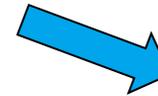
(Received 7 June 2012; published 10 September 2012)

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

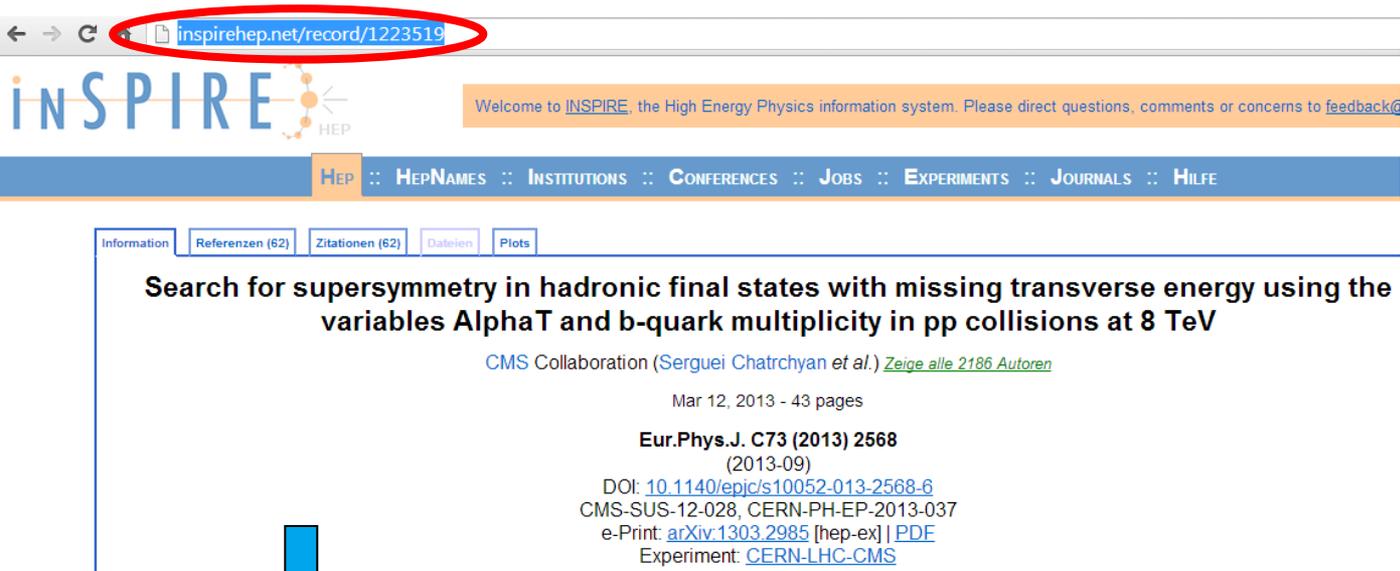


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Home > Documents in process > Untersuchung des Verhaltens von Streamerkammern bei verschiedenen Gaszusammensetzungen

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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):

- H1 Experiment (H1(-2012))

Research Program(s):

- Experiment H1 (POF2-511) (POF2-511)

Experiment(s):

The record appears in these collections:

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

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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	✓	ⓘ	x
Fretwurst, E. -> Fretwurst, Eckhart (>Extern / UNI/EXPIZEUS/HH) Author	✓	ⓘ	x
Graafsma, H. -> Graafsma, Heinz (DESY / FS-DS) Author	✓	ⓘ	x
Klanner, R. -> Klanner, Robert (>Extern / UNI/EXP) Author	✓	ⓘ	x
Kopsalis, I. -> Kopsalis, Ioannis (>Extern / UNI/EXP) Author	✓	ⓘ	x
Schwandt, J. -> Schwandt, Joern (>Extern / UNI/EXP) Author	✓	ⓘ	x

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

Viele Felder werden durch den Import vorausgefüllt:
(z.B. Titel, Autoren, Journal-Referenz,....)

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Journal Article

Import data

Group(s) involved *

Beamline/Experiment/Facility *

Grant name / Proposal No. Report Number

Author(s) / Editor

Edit 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

Thiele, Robert
Corresponding

Son, Sang-Kil
(3) Author

Start typing last

Ziaja, Beata ->
CFEL-3) Author

Santra, Robin
(3) Author

Title *

Journal *

DOI

Volume * Issue Pages *

Publication Year * Language Publisher

Place of publication

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Autorentyp auswählen:
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Institut auswählen:
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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) *

Start typing lastname and select...

- mueller [Extern] Corresponding Author
- mueller -> Mueller, Katharina (>Extern / H1/ZUER) Corresponding Author
- mueller -> Mueller, Bodo (DESY / BAU) Corresponding Author
- mueller -> Mueller, Carsten (DESY / MHF-sl) Corresponding Author

➤ Autoreidentifikation

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Journal Article

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Grant name / Proposal No.

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Journal *

DOI

Volume * Issue Pages *

Publication Year * Language Publisher

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URL



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

Report Number ⓘ
DESY-THESIS-001, Div-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 * ⓘ
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- 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





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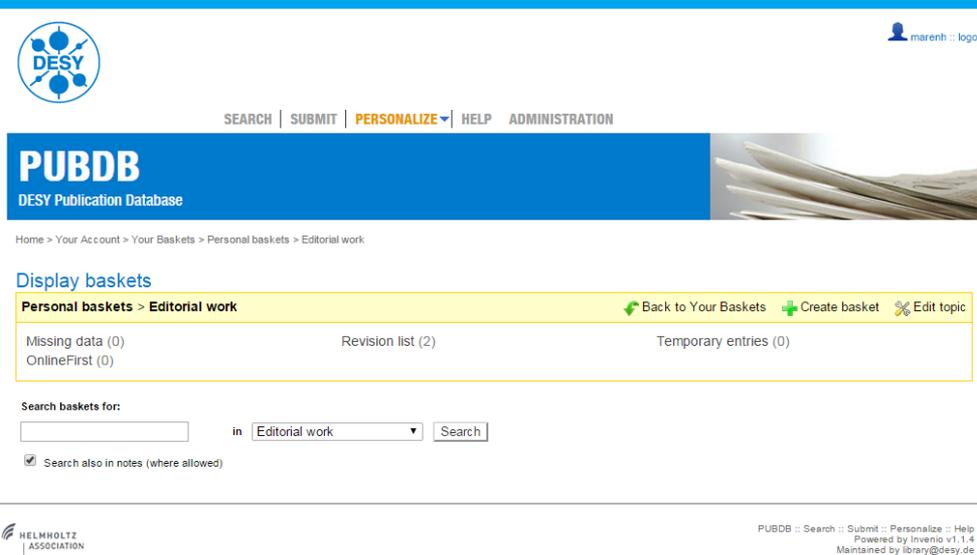
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- Zur Revision-Liste (→”Your Baskets ”)



PubDB: Die Basket-Funktion

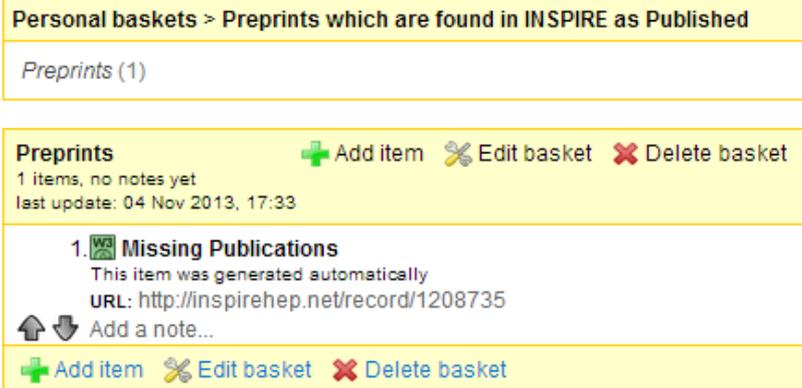


DESY logo in the top left corner. User 'marenh' is logged out in the top right. Navigation links: SEARCH | SUBMIT | PERSONALIZE | HELP | ADMINISTRATION. The main header shows 'PUBDB DESY Publication Database'. Below the header, a breadcrumb trail reads: Home > Your Account > Your Baskets > Personal baskets > Editorial work. The 'Display baskets' section shows 'Personal baskets > Editorial work' with options to 'Back to Your Baskets', 'Create basket', and 'Edit topic'. A table lists basket contents: 'Missing data (0)', 'OnlineFirst (0)', 'Revision list (2)', and 'Temporary entries (0)'. A search bar is present with a dropdown set to 'Editorial work' and a 'Search' button. A checkbox for 'Search also in notes (where allowed)' is checked. The footer includes the Helmholtz Association logo and technical details: 'PubDB :: Search :: Submit :: Personalize :: Help Powered by invenio v1.1.4 Maintained by library@desy.de'.

Editorial work:

- **Revision list:** “released” Artikel werden automatisch nach 15min von der Revisionsliste gelöscht
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- **Temporary Entries:** temporäre Einträge

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'Personal baskets > Preprints which are found in INSPIRE as Published'. The basket contains 'Preprints (1)'. The 'Preprints' section shows '1 items, no notes yet' and 'last update: 04 Nov 2013, 17:33'. A list item is shown: '1. Missing Publications', 'This item was generated automatically', 'URL: http://inspirehep.net/record/1208735', and 'Add a note...'. Action buttons 'Add item', 'Edit basket', and 'Delete basket' are visible at the top and bottom of the list.

Preprints:

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



Die "Revision list"

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Personal baskets > Editorial work Back to Your Baskets Create basket Edit topic

Missing data (0)
missing POF/RT (3)

OnlineFirst (1)
Revision list (9)

Temporary entries (3)

Revision list Add item Edit basket Delete basket
9 items, no notes yet
last update: 14 Oct 2014, 14:15

- [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 >>
Detailed record - Add a note... 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 >>
Detailed record - Add a note... 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
Detailed record - Add a note... Copy item Remove item
- [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 >>
Detailed record - Add a note... 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 >>
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 atomistic 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 atomistic diffusion at relatively low temperatures where such measurements were far out of reach with previously established methods. [...]
Detailed record - Add a note... Copy item Remove item
- [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 >>
Detailed record - Add a note... Copy item Remove item

Eintrag in anderen Basket kopieren

Der Record wird hier **nicht** gelöscht!

Hinzufügen einer Notiz zu diesem Eintrag

Revision list → Update alle 15min:

Neue Records kommen hinzu / "Released" Records werden gelöscht



Detallierte Artikel-Ansicht

Information Discussion (0) Usage statistics Files Plots

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

Database coverage:
JCR

The record appears in these collections:

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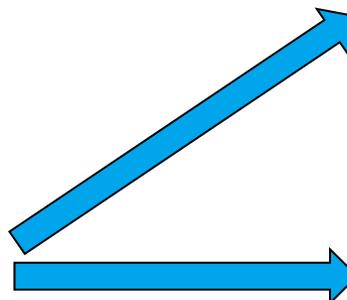
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