

PubDB-Training 2015

Robert Thiele

PubDB Trainingskurs 2015

Hamburg, 13.10.2015

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

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Title * 
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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
Title of Special Issue  ISBN of Special Issue 

Publication Year *  yyyy Language  Click to select...

Conference name  e.g. The 10th International Conference on Supersymmetry and Unification of Fundamental I
Acronym  e.g. SUSY02 **Place**  e.g. Hamburg
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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)

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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

PACS: 32.90.+a, 32.80.Fb, 87.59.-e, 87.15.ay

*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

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(Received 7 June 2012; published 10 September 2012)

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DOI: 10.1103/PhysRevA.86.033411

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

10.1103/PhysRevA.86.033411

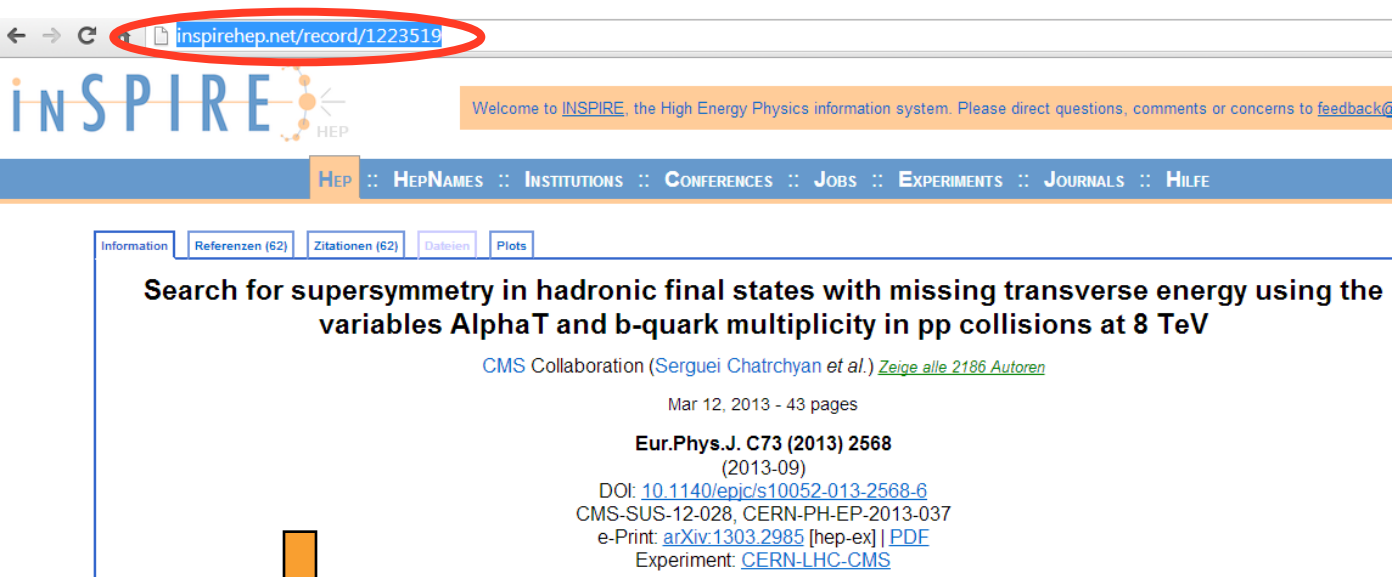


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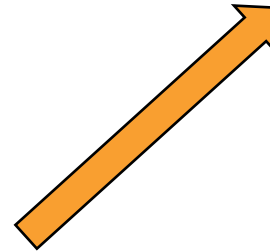
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Diploma Thesis/Internal Report

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):

1. H1 Experiment (H1(-2012))

Research Program(s):

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Book

PUBDB-2015-02236

The Large Hadron Collider : Harvest of Run 1

Schoerner-Sadenius, T. (Editor)*

2015
Springer International Publishing Cham
ISBN: 9783319150000, 978-3-319-15000-0

Online-Ressource (2015) [10.1007/978-3-319-15001-7] 

Please use a persistent id in citations: doi:10.1007/978-3-319-15001-7

Report No.: PUBDB-2015-02236

Abstract: The first run of the LHC propelled particle physics into the Terascale, the TeV energy domain and was rewarded with the triumph of the discovery of a Higgs boson. Precision measurements of elementary cross sections and couplings so far beautifully confirmed the Standard Model, which is however known to be incomplete. Significantly increased statistics and higher energy reach may provide the sensitivity to shake its foundations, while other experiments and facilities may be need to complete the physics interpretation.

Note: English; <http://inspirehep.net/record/1373790?ln=en>

Contributing Institute(s):

1. LHC/CMS Experiment (CMS)
2. Bereichsleitung FH (FH)
3. LHC/ATLAS Experiment (ATLAS)
4. International Linear Collider (ILC)
5. Theorie-Gruppe (T)

Research Program(s):

1. 611 - Fundamental Particles and Fields (POF3-611) (POF3-611)

Experiment(s):

1. LHC: CMS

Appears in the scientific report 2015

Import data 

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Linked articles:

Contribution to a book
Elsen, E. ; Grojean, C.

[Perspectives on the Energy Frontier](#)

The Large Hadron Collider : Harvests from run 1 / Schörner-Sadenius, Thomas (Editor) ; Cham : Springer International Publishing, 2015, ; ISBN: 978-3-319-15000-0 ; doi:10.1007/978-3-319-15001-7 515 - 528 (2015) [10.1007/978-3-319-15001-7] 

Contribution to a book
Weiglein, G.

[Higgs-Boson Physics at the LHC](#)

The Large Hadron Collider: Harvest of Run 1 Online-Ressource (2015)

Contribution to a book
Kröninger, K. ; Meyer, A. ; Uwer, P.
[Top-Quark Physics at the LHC](#)

The Large Hadron Collider - Harvest of Run 1 532 pp., (2015) [10.1007/978-3-319-15001-7] 

Contribution to a book
Schoerner-Sadenius, T.
[The Large Hadron Collider - Background and History](#)

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Zhang, J. -> Zhang, Jian (>Extern / HASYLAB|HAS-User) Author



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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



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FS-BT: FS-Beamline Technology
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Thiele -> Thiele, Julian (>Extern / HASYLAB|HAS-User) Author
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DORIS Beamline BW2 (BW2)

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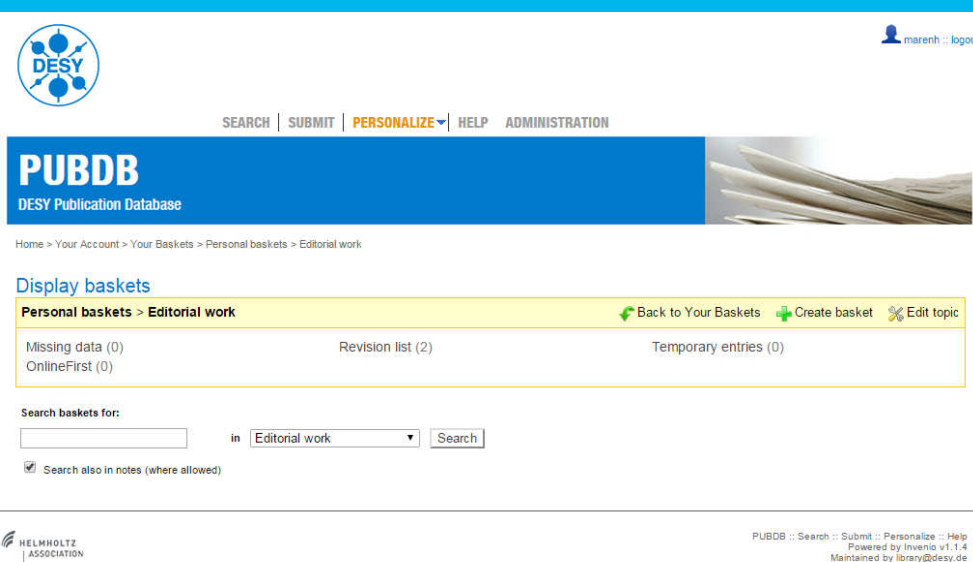
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- " POF3-c13 d Uatter anT RaTiation^
- ! M-BereiCh:
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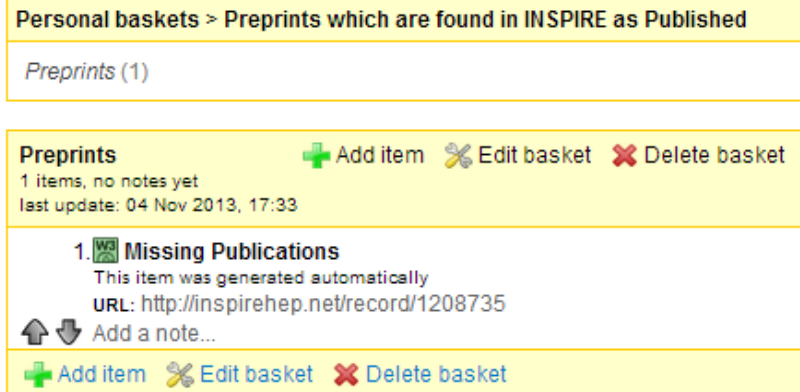


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Editorial [ork:

Revision list Artikel werden automatisch nach 15min von der Revisionsliste gelöscht

Missing data Kein guter Ort zum Hineinschieben von unvollständigen Records

Online First Artikel von der Revisionsliste hineinschieben (hier zählen noch Seitenzahlen etc.)

! **Temporary Entries** temporäre Einträge

Preprints:

! Ungelichete Publikationen, welche zu einem Zeitpunkt nur als Preprint gezählt wurden, aber schon veröffentlicht sind



Die cReQsion listd

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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

- [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]
- [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]
- [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:
 Detailed record - Add a note...
- [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]
- [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]
- [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]

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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

Database coverage:
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Contribution to a conference proceedings

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ISBN ⓘ

Group(s) directly involved * ⓘ

MPE: PETRA

MPY: Beschleunigerphysik

FS-US: FS-Undulator Systeme

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631 - Accelerator R & D (POF III: 2015 - 2019)

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Report Number ⓘ

DESY-THESIS-001, arXiv-No.

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Sahoo, Gajendra Kumar -> Sahoo, Gajendra Kumar (DESY / MPY) Corresponding author

Bieler, Michael -> Bieler, Michael (DESY / MBB) Author

Keil, Joachim -> Keil, Joachim (DESY / MPY) Author

Kling, A. [Extern] Author

Kube, Gero -> Kube, Gero (DESY / MDI 2) Author

Tischer, Markus -> Tischer, Markus (DESY / FS-US) Author

Wanzenberg, Rainer -> Wanzenberg, Rainer (DESY / MPE) Author

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[PUBDB-2015-03869] Journal Article/Internal Report

Khachatryan, V. ; Sirunyan, A. M. ; Tumasyan, A. ; *et al*

Distributions of topological observables in inclusive three- and four-jet events in pp collisions at $\sqrt{s} = 7$ TeV

[CMS-QCD-11-006; CERN-PH-EP-2014-302; arXiv:1502.04785]

The European physical journal / C 75(7), 302 (2015) [10.1140/epjc/s10052-015-3491-9] 

This paper presents distributions of topological observables in inclusive three- and four-jet events produced in pp collisions at a centre-of-mass energy of 7 TeV with a data sample collected by the CMS experiment corresponding to a luminosity of 5.1 fb^{-1} . The distributions are corrected for detector effects, and compared with several event generators based on two- and multi-parton matrix elements at leading order. [...]

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Talk (non-conference) DESY-2014-03786

PubDB Training 2014

Thiele, R. (Corresponding Author) ^{*}; Wagner, A. ^{*}

Report No.: DESY-2014-03786

Contributing Institute(s):

1. Bibliothek und Dokumentation (L)

Research Program(s):

1. No facility / HGF program None (POF2-890) (POF2-890)
2. JOIN² - Just another INvenio Instance (JOIN2-2014) (JOIN2-2014)

Experiment(s):

Appears in the scientific report [2014](#)

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