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Pohl, V. ; Kasper, H. ; Kochanowski, M. ; *et al*
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Effect of screening by external charges on the atomic orbitals and photoinduced processes within the Hartree-Fock-Slater atom

Abstract

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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

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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

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

DOI: 10.1103/PhysRevA.86.033411

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

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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

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DOI: 10.1103/PhysRevA.86.033411

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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

CMS Collaboration (Serguei Chatrchyan *et al.*) [Zeige alle 2186 Autoren](#)

Mar 12, 2013 - 43 pages

Eur.Phys.J. C73 (2013) 2568
(2013-09)

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Book PUBDB-2015-02236

The Large Hadron Collider : Harvest of Run 1

Schoerner-Sadenius, T. (Editor)*

2015

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ISBN: 9783319150000, 978-3-319-15000-0

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

Contributing Institute(s):

1. LHC/CMS Experiment (CMS)
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Research Program(s):

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

Experiment(s):

1. LHC: CMS

Appears in the scientific report 2015

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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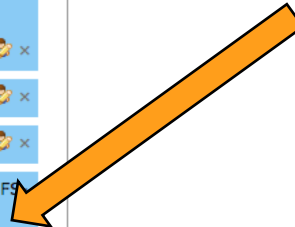
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Gusa, Daniel -> Gusa, Daniel (DESY: daniel.gusa@desy.de / FS-CFELCMI FS-CFEL-1) Author [Deutsches Elektronen-Synchrotron]	✓ ✕
Rubinsky, Igor -> Rubinsky, Igor [P:(DE-H253, 1001747) Author]	✓ ✕
Horke, Daniel A. -> Horke, Daniel (DESY, CFEL: daniel.horke@desy.de / FS-CFELCMI FS-CFEL-1) Author [Deutsches Elektronen-Synchrotron, Centre for Free-Electron Laser Science]	✕
Küpper, Jochen -> Küpper, Jochen (DESY, CFEL: jochen.kuepper@desy.de / FS-CFELCMI FS-CFEL-1 FS-CFEL-1) Author [Deutsches Elektronen-Synchrotron, Centre for Free-Electron Laser Science]	✕

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Submit:

POFIII

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Group(s) directly involved * ⓘ

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Select from list or type ID, Name of POF-Topic...

Grant name / Proposal No. ⓘ

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

Beamline/Experiment/Facility * ⓘ

e.g. REGAE

Report Number ⓘ

DESY-THESIS-001, arXiv-No.

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POF III: Topic/Research Theme/Facility * ⓘ

- 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)

LKI (Inhouse Research):

➤ 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

LKII (Nutzerbetrieb):

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

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- POF3-899 ohne Topic

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Experimente / Beamlines / Facilities

PUBDB

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Journal Article

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Group(s) directly involved *
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POF III: Topic/Research Theme/Facility * **Beamline/Experiment/Facility ***

Select from list or type ID, Name of POF-Topic... e.g. REGAE

Grant name / Proposal No.
e.g. 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:

Beamline/Experiment/Facility *

- e.g. REGAE
- Any Light Particle Search (ALPS I/II)
- CNGS: OPERA (OPERA)
- Cherenkov Telescope Array (CTA)
- DESY NanoLab: Microscopy (NanoLab-04)
- DESY NanoLab: Sample Preparation (NanoLab-01)
- DESY NanoLab: Surface Spectroscopy (NanoLab-02)
- DESY NanoLab: X-Ray Diffraction (NanoLab-03)

Experimentfeld:

- Facilities (R&D)
- Beamlines (DORIS / PETRA / FLASH)
- Experimente (z.B. LHC: ATLAS)
- **Measurement at external facility** (für alle externen Messungen)
- **No specific instrument** (Theorie oder wenn kein Experiment angegeben werden kann)

POF / Beamlines.

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- eine Beamline (FLASH/PETRA/XFEL) angegeben: **zusätzlich LKII** wählen als zweites (6G*)
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Edit Author: ⓘ

Author

Select Author:

Shabalin, A. G. [Extern]

Institution:

DESY: Deutsches Elektronen-Synchrotron

EMBL: Europäisches Laboratorium für Molekularbiologie

MPG: Max-Planck-Gesellschaft zur Förderung der Wissenschaften

FZJ: Forschungszentrum Juelich

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2015-09-30 11:22  [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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Information Usage statistics Files

Distributions of topological observables in inclusive three- and four-jet events in pp collisions at $\sqrt{s} = 7$ TeV - PUBDB-2015-03869

Main file(s):



4

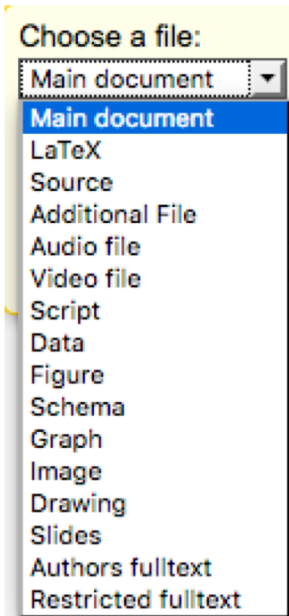
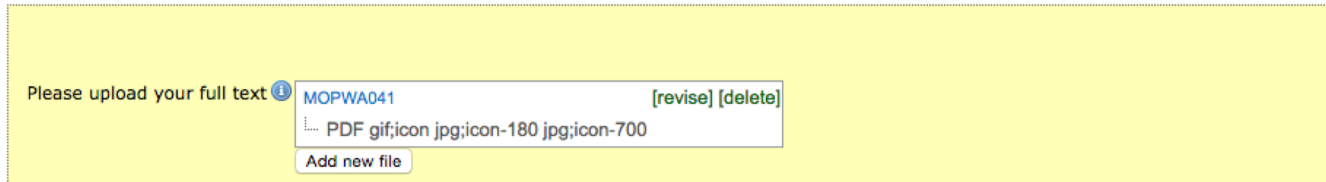
4.gif (icon)	[11.4 KB]	30 Sep 2015, 11:23	OpenAccess
4.jpg (icon-1440)	[238.14 KB]	30 Sep 2015, 11:23	OpenAccess
4.jpg (icon-180)	[25.73 KB]	30 Sep 2015, 11:23	OpenAccess
4.jpg (icon-640)	[238.14 KB]	30 Sep 2015, 11:23	OpenAccess
4.pdf	[1.11 MB]	30 Sep 2015, 11:22	OpenAccess
4.pdf (pdfa)	[4.06 MB]	30 Sep 2015, 11:23	OpenAccess

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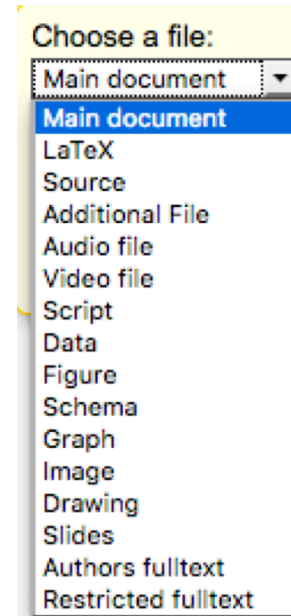
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PubDB: Basket-Funktion.

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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

The screenshot shows the 'Preprints' section of the PubDB website. It is titled 'Personal baskets > Preprints which are found in INSPIRE as Published'. Below this, there is a sub-section 'Preprints (1)'. The main content area is titled 'Preprints' and shows '1 items, no notes yet' and 'last update: 04 Nov 2013, 17:33'. Below this, there is a list of preprints, with the first one being 'Missing Publications'. This item was generated automatically and has a URL: 'http://inspirehep.net/record/1208735'. Below the list, there is a search bar with a dropdown menu set to 'Preprints' and a 'Search' button. At the bottom of the page, there is a footer with the 'HELMHOLTZ ASSOCIATION' logo and some technical information about the search engine and database.

Preprints:

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

PubDB: Die “Revision list”

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Personal baskets > Editorial work

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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

Add item Edit basket Delete basket

- [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 POF >>
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 POF >>
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 Al_xGa_{1-x}N (0.64 < x < 1)
Journal of applied physics, 116(14), (2014) [10.1063/1.4897449] LIBRARIES POF >>
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 POF >>
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 POF >>
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PubDB: Detaillierte 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:

Organizational Units > >DESY > >FS > HASYLAB(-2012)
Private Collection > >DESY > >FS > HASYLAB(-2012)
Organizational Units > >XFEL > XFEL(-2012)
Private Collection > >XFEL > XFEL(-2012)
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Workflow collections > Public records
Workflow collections > Publications database
Publications database

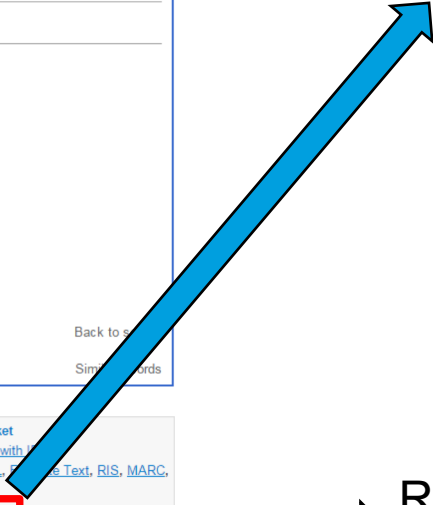
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PubDB: Modify Funktion

Modify Record

Contribution to a conference proceedings

Import data ⓘ

ISBN ⓘ

Group(s) directly involved * ⓘ

MPE: PETRA	×
MPY: Beschleunigerphysik	×
FS-US: FS-Undulator Systeme	×

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POF III: Topic/Research Theme/Facility * ⓘ

6G3 - PETRA III (POF III: 2015 - 2019)	×
631 - Accelerator R & D (POF III: 2015 - 2019)	×

Select from list or type ID, Name of POF-Topic...

Beamline/Experiment/Facility * ⓘ

Facility (machine) PETRA III (PETRA III)	×
--	---

e.g. REGAE

Grant name / Proposal No. ⓘ

6G3 - PETRA III (POF III: 2015 - 2019)	×
631 - Accelerator R & D (POF III: 2015 - 2019)	×

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

Report Number ⓘ

Author(s) / Contributor(s) / Editor(s) * ⓘ

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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Title * ⓘ

Investigation of Radiation Damage of Insertion Devices at Petra III due to Particle Losses Using Tracking Results with Sixtrack

Title preview:

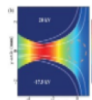
Investigation of Radiation Damage of Insertion Devices at Petra III due to Particle Losses Using Tracking Results with Sixtrack

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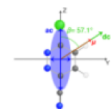


Kienitz, J. S.; Dlugolecki, K.; Trippel, S. (Corresponding author); Küpper, J. (Corresponding author)
Improved spatial separation of neutral molecules

The journal of chemical physics 147(2), 024304 (2017) [10.1063/1.4991479]

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[BioTeX](#) | [EndNote: XML, Text](#) | [RIS](#)

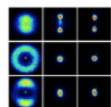


Thesing, L. V.; Küpper, J. (Corresponding author); González-Férez, R. (Corresponding author)
Time-dependent analysis of the mixed-field orientation of molecules without rotational symmetry

The journal of chemical physics 146(24), 244304 (2017) [10.1063/1.4986954]

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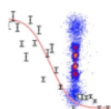
Amini, K.; Boll, R.; Lauer, A.; Burt, M.; Lee, J. W. L.; Christensen, L.; Brauße, F.; Mullins, T.; Savelyev, E.; Ablikim, U.; Berrah, N.; Bomme, C.; Düsterer, S.; Erk, B.; Höppner, H.; Johnsson, P.; Kierspel, T.; Krecinic, F.; Küpper, J.; Müller, M.; Müller, E.; Redlin, H.; Rouzée, A.; Schirmel, N.; Thøgersen, J.; Techert, S.; Toleikis, S.; Treusch, R.; Trippel, S.; Ulmer, A.; Wiese, J.; Vallance, C.; Rudenko, A.; Stapelfeldt, H.; Brouard, M.; Rolles, D. (Corresponding author)

Alignment, orientation, and Coulomb explosion of difluoriodobenzene studied with the pixel imaging mass spectrometry (PlmMS) camera

The journal of chemical physics 147(1), 013933 (2017) [10.1063/1.4982220]

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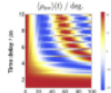
Savelyev, E.; Boll, R.; Bomme, C.; Schirmel, N.; Redlin, H.; Erk, B.; Düsterer, S.; Mueller, E.; Höppner, H.; Toleikis, S.; Müller, J.; Kristin Czwilinn, M.; Treusch, R.; Kierspel, T.; Mullins, T.; Trippel, S.; Wiese, J.; Küpper, J.; Brauße, F.; Krecinic, F.; Rouzée, A.; Rudawski, P.; Johnsson, P.; Amini, K.; Lauer, A.; Burt, M.; Brouard, M.; Christensen, L.; Thøgersen, J.; Stapelfeldt, H.; Berrah, N.; Müller, M.; Ulmer, A.; Techert, S.; Rudenko, A.; Rolles, D. (Corresponding author)

Jitter-correction for IR/UV-XUV pump-probe experiments at the FLASH free-electron laser

New journal of physics 19(4), 043009 (2017) [10.1088/1367-2630/aa652d]

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Owens, A. (Corresponding author); Zak, E. J.; Chubb, K. L.; Yurchenko, S. N.; Tennyson, J.; Yachmenev, A. (Corresponding author)

Simulating electric field interactions with polar molecules using spectroscopic databases

Scientific reports 7, 45068 (2017) [10.1038/srep45068]

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[BioTeX](#) | [EndNote: XML, Text](#) | [RIS](#)



Horke, D. (Corresponding author); Roth, N.; Worbs, L.; Küpper, J.

Characterizing gas flow from aerosol particle injectors

Journal of applied physics 121(12), 123106 (2017) [10.1063/1.4978914]

[OPEN ACCESS](#) [Files](#) [Fulltext by arXiv.org](#)

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Home / Facilities / PETRA III / Beamlines / P07 High Energy Materials Science / Publications from P07 / 2017 -

2017

Barriobero Vila, P.; Gussone, J.; Haubrich, J.; Sandlöbes, S.; Da Silva, J.;

Cloetens, P.; Schell, N.; Requena, G.

Inducing Stable $\alpha + \beta$ Microstructures during Selective Laser Melting of Ti-6Al-4V Using Intensified Intrinsic Heat Treatments

Materials 10(3), 268 (2017) [10.3390/ma10030268]

[OPEN ACCESS](#) [Files](#) [Fulltext](#)

[BioTeX](#) | [EndNote: XML, Text](#) | [RIS](#)

Benafan, O.; Garg, A.; Noebe, R. D.; Skorpenske, H. D.; An, K.; Schell, N.

Deformation characteristics of the intermetallic alloy 60NiTi

Intermetallics 82, 40 - 52 (2017) [10.1016/j.intermet.2016.11.003]

[Files](#)

[BioTeX](#) | [EndNote: XML, Text](#) | [RIS](#)

Cao, H.; Guo, J.; Chang, F.; Pistidda, C.; Zhou, W.; Zhang, X.; Santoru, A.;

Wu, H.; Schell, N.; Niewa, R.; Chen, P.; Klassen, T.; Dornheim, M.

Transition and Alkali Metal Complex Ternary Amides for Ammonia Synthesis and Decomposition

Chemistry - a European journal 23(41), 9766-9771 (2017) [10.1002/chem.201702728]

[Files](#)

[BioTeX](#) | [EndNote: XML, Text](#) | [RIS](#)

Chen, Y.-H.; Rogström, L.; Roa, J. J.; Zhu, J. Q.; Schramm, I. C.; Johnson, L. J. S.; Schell, N.; Mücklich, F.; Anglada, M. J.; Odén, M.

Thermal and mechanical stability of wurtzite-ZrAlN/cubic-TiN and wurtzite-ZrAlN/cubic-ZrN multilayers

Surface and coatings technology 324, 328 - 337 (2017)

[10.1016/j.surfcoat.2017.05.055]

[Files](#)

[BioTeX](#) | [EndNote: XML, Text](#) | [RIS](#)

Demchyshyn, S.; Roemer, J. M.; Groß, H.; Hellbrunner, H.; Ulbricht, C.;

Apaydin, D.; Böhm, A.; Rütt, U.; Bertram, F.; Hesser, G.; Scharber, M. C.;

Sarıçiftci, N. S.; Nickel, B.; Bauer, S.; Glowacki, E. D.; Kaltenbrunner, M.

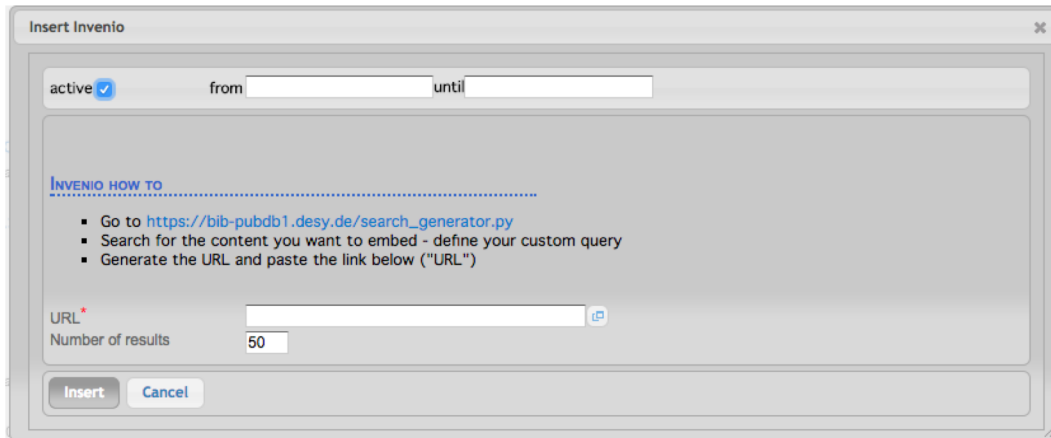
Confining metal-halide perovskites in nanoporous thin films

Science advances 3(8), e1700738 - (2017) [10.1126/sciadv.1700738]

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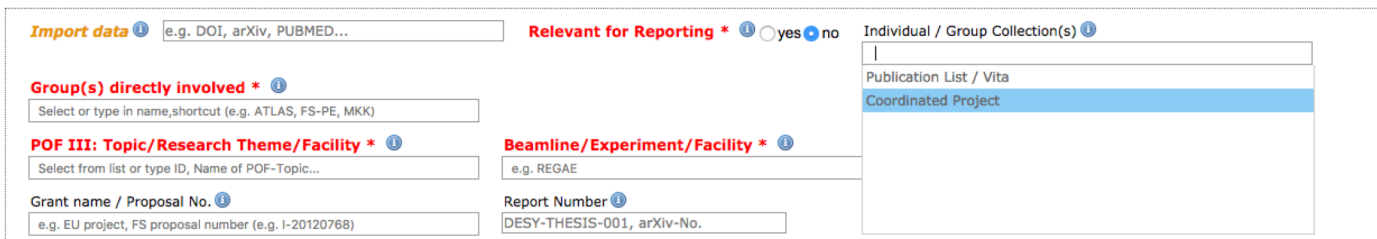
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- Bedienung der Webseiten direkt aus der PubDB
- Aussehen in Abhängigkeit des auf der Webseite benutzten Style
- Import von Queries (Bibliothek bietet Hilfe dafür an) durch das Invenio-Plugin im ZMS / CMS
- Queries via verbesserten Search Generator (Link in Zukunft direkt auf der Startseite)

Vorteile:

- Neue Publikationen nach PubDB-Submit automatisch
- Outputformat gsblst: Nature
- Links zu Titel, Autoren: höheres Google-Ranking
- **Bessere Sichtbarkeit und professionelle Darstellung eigener Arbeiten**
- Weniger Arbeit dank DOI-Import / INSPIRE-Import und Nutzung normierter Datensätze
- **Wichtig:** Auch VITA-Publikationen möglich!



PubDB – Statistiken

[Link direkt auf der Startseite!](#)

Quick Links

- ➔ Search Generator
- ➔ Statistics Formular
- ➔ POF Overview
- ➔ Exp/BL Overview
- ➔ Inst/Group Overview
- ➔ Library Home
- id ORCID



Show 10



	2013	2014	2015	2016	2017	2018	2019
600 - Forschungsbereich Materie (POF III: 2015 - 2020)	738	904	902	940	902	1002	410
610 - Materie und Universum (POF III: 2015 - 2020)	358	462	500	544	488	550	221
611 - Fundamental Particles and Forces (POF III: 2015 - 2020)	281	380	407	446	392	456	191
613 - Matter and Radiation from the Universe (POF III: 2015 - 2020)	77	82	93	98	96	94	30

620 - Von Materie zu Materialien und Leben (POF III: 2015 - 2020)
621 - In-house research on the structure, dynamics and function of matter (POF III: 2015 - 2020)
6211 - Extreme States of Matter: From Cold Ions to Hot Plasmas (POF III: 2015 - 2020)
6212 - Quantum Condensed Matter: Magnetism, Superconductivity (POF III: 2015 - 2020)
6213 - Materials and Processes for Energy and Transport Technologies (POF III: 2015 - 2020)
6214 - Nanoscience and Materials for Information Technology (POF III: 2015 - 2020)

Show 10 entries

	2013	2014	2015	2016	2017	2018	2019
Facility (machine) PETRA III (PETRA III)	1	8	2	4	0	1	0
PETRA Beamline P01 (P01)	3	10	12	14	12	6	13
PETRA Beamline P02.1 (P02.1)	12	38	27	30	56	49	26
PETRA Beamline P02.2 (P02.2)	24	23	22	20	34	39	23
PETRA Beamline P03 (P03)	22	34	35	30	25	30	9
PETRA Beamline P04 (P04)	4	12	13	14	24	24	8
PETRA Beamline P05 (P05)	1	8	10	12	13	15	5
PETRA Beamline P06 (P06)	11	19	18	16	12	20	7
PETRA Beamline P07 (P07)	17	46	50	46	48	58	41

Show 10 entries

	2013	2014	2015	2016	2017	2018	2019
Theory	119	163	174	168	145	161	81
Theory-HH	91	110	127	134	105	127	64
Theory-Zeuthen	28	53	47	34	40	34	17

Showing 1 to 3 of 3 entries (filtered from 70 total entries)

Search: Theory

Previous 1 Next

HGFStatistics - Parameters for calculation

Please fill out with year or year range: 2017 or 2010->2017

At least one internal author? yes

Last / First author (DKFZ only) no

At least one external author? no

POF Period: POF III

Additional Parameters:

Collection: VDB

POF Category: Programm

WEB year: yes

Cache: yes

Calculation of: ☒ POF ☒ Institutes ☐ Grants ☐ Experiments ☐ Conferences

Please note: If more selected, the calculation time increases significantly!

Calculate Cancel

Search: Petra

	2013	2014	2015	2016	2017	2018	2019
Facility (machine) PETRA III (PETRA III)	1	8	2	4	0	1	0
PETRA Beamline P01 (P01)	3	10	12	14	12	6	13
PETRA Beamline P02.1 (P02.1)	12	38	27	30	56	49	26
PETRA Beamline P02.2 (P02.2)	24	23	22	20	34	39	23
PETRA Beamline P03 (P03)	22	34	35	30	25	30	9
PETRA Beamline P04 (P04)	4	12	13	14	24	24	8
PETRA Beamline P05 (P05)	1	8	10	12	13	15	5
PETRA Beamline P06 (P06)	11	19	18	16	12	20	7
PETRA Beamline P07 (P07)	17	46	50	46	48	58	41

Previous 1 2 3 Next

PubDB – Statistiken.

Mögliche Parameter

HGFStatistics - Parameters for calculation

Please fill out with year or year range:

At least one internal author?

Last / First author (DKFZ only)

At least one external author?

POF Period:

Additional Parameters:

Collection:

POF Category:

WEB year:

Cache:

Calculation of: ☒ POF ☒ Institutes ☐ Grants ☐ Experiments ☐ Conferences

Please note: If more selected, the calculation time increases significantly!

- Welches Jahr, welcher Zeitraum?
- Ist mindestens ein interner Autor dabei?
- Ist mindestens ein externer Autor dabei?
- Auswahl der POF-Periode (POF I-III)
- Collection (Veröffentlichungsdatenbank, Vita oder Open Access)
- Welche Kategorie? (Forschungsbereich, Programm, Topic, Subtopic)
- Rechnung für wissenschaftlichen Ergebnisbericht?
- Welche Teile will man berechnen?

Wofür das Ganze?:

- Einfacher und schneller Überblick für die Gruppen: Ist alles drin?
- POF Berichterstattung: Was wurde oder wird gezählt?
- Qualitätssicherung und Management
- Erstellung von Literaturlisten

PubDB – Statistiken.

Automatisierte Tabellen für POF und Gruppen

Per institute and statistics key

Show 10 entries

Search: Theory

	WOS + Scopus (POFIII / POFIV Indikator)	WOS listed journal OR entry (POFII Indikator)	All of WoS and Scopus listed	Scopus listed	Thomson Reuters Master Journal List	JCR listed	WOS and not JCR	Web of Science	Other refereed	User supplied Peer Review	Refereed NOT in WoS	Refereed but NOT in WOS or Scopus	All refereed	Pubmed listed	DOAJ listed	TRMJL but no IF	TRMJL: 0< IF <5	TRMJL: 5<= IF <10
Theory	83	82	83	81	80	78	0	80	82	0	10	10	93	40	55	2	28	50
Theory-HH	67	66	67	65	65	63	0	65	66	0	9	9	76	27	47	2	17	46
Theory-Zeuthen	16	16	16	16	15	15	0	15	16	0	1	1	17	13	8	0	11	4

Showing 1 to 3 of 3 entries (filtered from 51 total entries)

Previous 1 Next

Per institute and document type

Show 10 entries

Search: Theory

	Dissertation / PhD Thesis	Internal Report	Journal Article	Lecture	Master Thesis	Bachelor Thesis	Poster	Preprint	Proceedings	Report	Book	Talk (non-conference)	Conference Presentation	Contribution to a book	Contribution to a conference proceedings
Theory	4	0	93	4	1	0	0	87	0	179	4	37	47	0	8
Theory-HH	4	0	76	4	1	0	0	75	0	155	4	37	47	0	7
Theory-Zeuthen	0	0	17	0	0	0	0	12	0	24	0	0	0	0	1

Showing 1 to 3 of 3 entries (filtered from 51 total entries)

Previous 1 Next

Überblick der POF-Programme, Gruppen, Grants, Experimente oder Konferenzen:

- Aufschlüsselung aller relevanter Publikationstypen / statistischen Schlüssel
- Komplette als Hyperlinks zu den Suchabfragen aufgebaut
- Voll durchsuchbar und individuell einstellbar

Ausblick.



- Implementierung von POFIV steht an, Erstellung der Normdatensätze, Erfassung von Altdaten, eventuelle zusätzliche POFIV-Maske, etc.
- Umstellung auf Docker zum leichteren Ausrollen unserer monatlichen Releases steht bevor
- Beginn der Invenio 3.x Migration?



<https://bib-pubdb1.desy.de/record/426536>