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[PUBDB-2023-05595] Preprint

Fieg, M. ; Kling, F. ; Schulz, H. ; *et al*

Tuning Pythia for Forward Physics Experiments

LIBRARIES

Event generators like Pythia play an important role in physics studies at the Large Hadron Collider (LHC). While they make accurate predictions in the central region, i. [...]

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[PUBDB-2023-05592] Book

Davis, V. T.

Introduction to photoelectron angular distributions: theory and applications

Cham : Springer International Publishing, Springer Tracts in Modern Physics 286, 332 pages (2022)

LIBRARIES

This book provides a comprehensive introduction to photoelectron angular distributions and their use in the laboratory to study light-matter interactions. Photoelectron angular distribution measurements are useful because they can shed light on atomic and molecular electronic configurations and system dynamics, as well as provide information about quantum transition amplitudes and relative phases that are not obtainable from other types of measurements. [...]

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[PUBDB-2023-05591] Book

Tumulka, R.

Foundations of Quantum Mechanics

Cham : Springer International Publishing, Lecture Notes in Physics 1003, 468 pages (2022)

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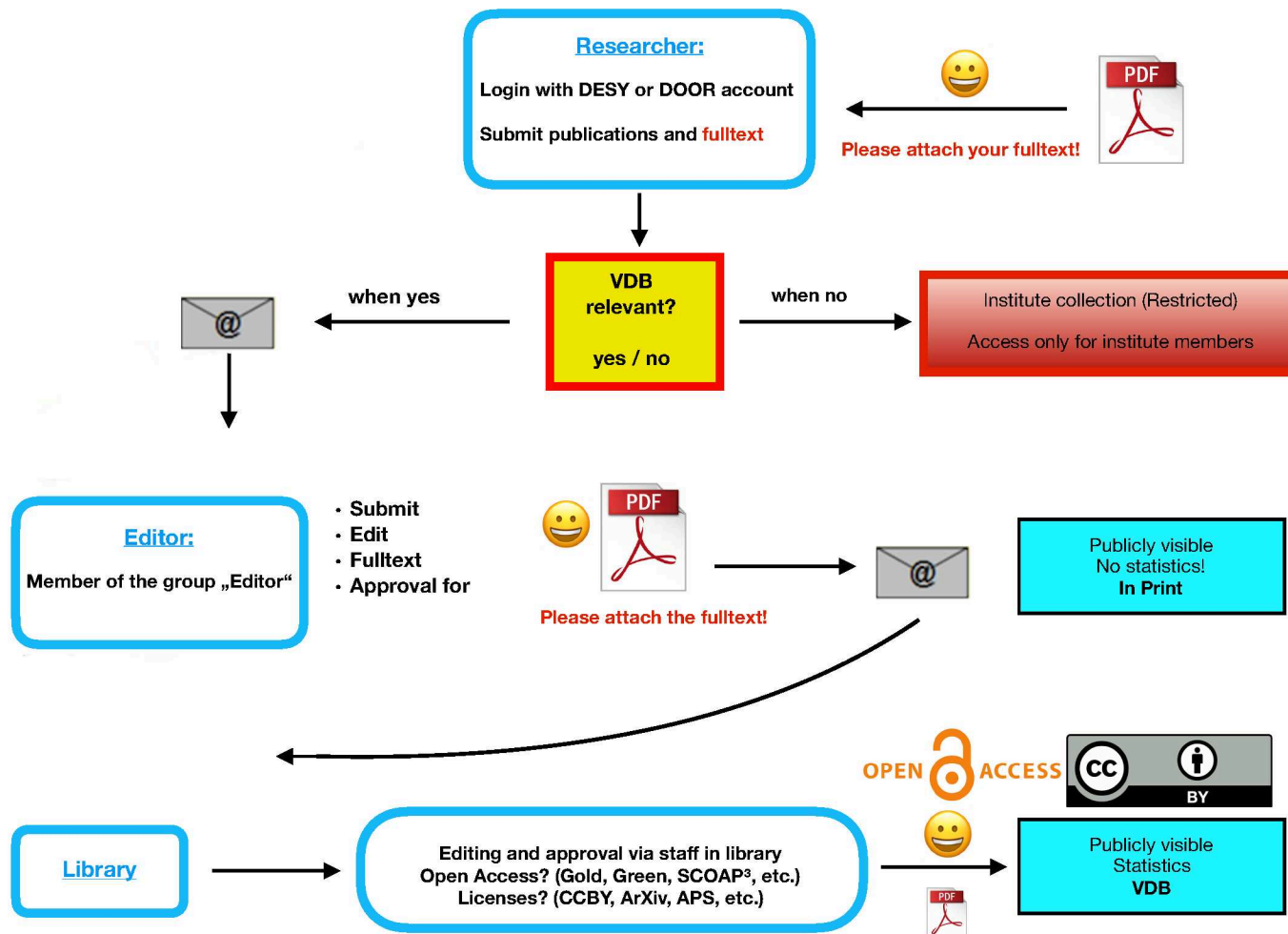
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Phys. Rev. A 86, 033411 (2012) [8 pages]

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

Abstract

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Citing Articles (4)

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

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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

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

DOI: 10.1103/PhysRevA.86.033411

PACS number(s): 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

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

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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.ag

10.1103/PhysRevA.86.033411



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Search for Supersymmetry in Hadronic Final States with Missing Transverse Energy Using the Variables α_T and b-Quark Multiplicity in pp collisions at $\sqrt{s} = 8$ TeV

CMS Collaboration · Serguei Chatrchyan (Yerevan Phys. Inst.) Show All(2186)

Mar 12, 2013

45 pages

Published in: *Eur.Phys.J.C* 73 (2013) 9, 2568

Published: Sep 18, 2013

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DOI: 10.1140/epjc/s10052-013-2568-6

Report number: CMS-SUS-12-028, CERN-PH-EP-2013-037

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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] 

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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):

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Research Program(s):

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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

The Large Hadron Collider - Harvest of Run 1 1 - 26 (2015) [10.1007/978-3-319-15001-7] 

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Beamline/Experiment/Facility * ⓘ

e.g. REGAE

Report Number ⓘ

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Author(s) / Editor(s) * ⓘ

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Đlugolecki, Karol [Extern] Author

Gusa, Daniel -> Gusa, Daniel (DESY: daniel.gusa@desy.de / >DESY) Author [Deutsches Elektronen-Synchrotron]

Rubinsky, Igor -> Rubinsky, Igor [P:(DE-H253)PIP1001747] Author

Horke, Daniel A. -> Horke, Daniel (DESY, CFEL: daniel.horke@desy.de / FS-CFELCM1|FS-CFEL-1) Author [Deutsches Elektronen-Synchrotron, Centre for Free-Electron Laser Science]

Küpper, Jochen -> Küpper, Jochen (DESY, CFEL: jochen.kuepper@desy.de / FS-CFELCM1|FS-CFEL-1|FS-CFEL-1) Author [Deutsches Elektronen-Synchrotron, Centre for Free-Electron Laser Science]

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CFEL: Centre for Free-Electron Laser Science

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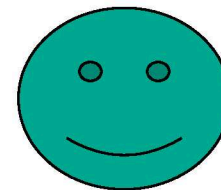
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Beamline/Experiment/Facility * ⓘ

Grant name / Proposal no. ⓘ

Report numbers ⓘ



POF IV: Topic/Research Theme/Facility * ⓘ

611 - Fundamental Particles and Forces (POF IV: 2021 - 2026)
613 - Matter and Radiation from the Universe (POF IV: 2021 - 2026)
621 - Accelerator Research and Development (POF IV: 2021 - 2026)
622 - Detector Technologies and Systems (POF IV: 2021 - 2026)
623 - Data Management and Analysis (POF IV: 2021 - 2026)

LKI (Inhouse Research):

➤ Hochenergiephysik:

- POF4-611 – Fundamental Particles...

➤ Zeuthen /Astro:

- POF4-613 – Matter and Radiation...

➤ M-Bereich:

- POF4-621 – Accelerator R&D
- POF4-622 – Detector Technologies...

➤ Photon Science:

- POF4-631 – Matter - Dynamics, ...
- POF4-632 – Material – Quantum, ...
- POF4-633 – Life Sciences – Building ...

LKII (Nutzerbetrieb):

- POF4-6G1 - GridKa
- POF4-6G2 – FLASH
- POF4-6G3 – PETRA III
- POF4-6G9 – IDAF
- POF4-6G13 – XFEL

Ohne POF:

- POF4-899 ohne Topic

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Experimente / Beamlines / Facilities

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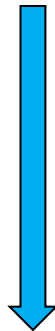
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Beamline/Experiment/Facility * ⓘ

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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)
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POF / Beamlines.

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- mindestens ein DESY-Autor: **LKI wählen** (kein 6G* als erstes)
- eine Beamline (FLASH/PETRA/XFEL) angegeben: **zusätzlich LKII** wählen als zweites (6G*)
- POF4-899 ohne Topic nur, wenn es außerhalb der Förderung läuft
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Institution:

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- EMBL: Europäisches Laboratorium für Molekularbiologie
- MPG: Max-Planck-Gesellschaft zur Förderung der Wissenschaften
- FZJ: Forschungszentrum Juelich

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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. [...]

OpenAccess:  PDF  PDF (PDF/A); External link:  Fulltext

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

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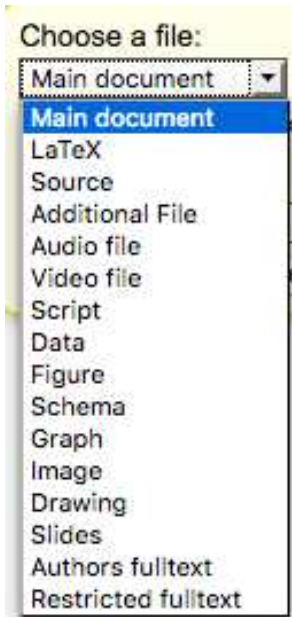
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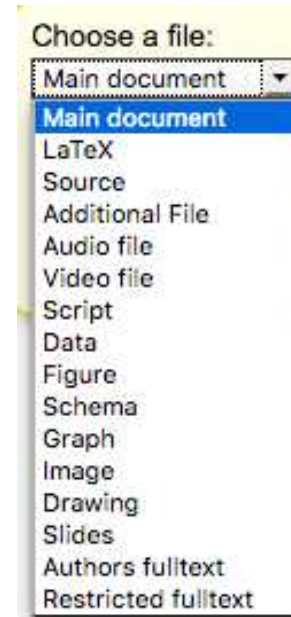
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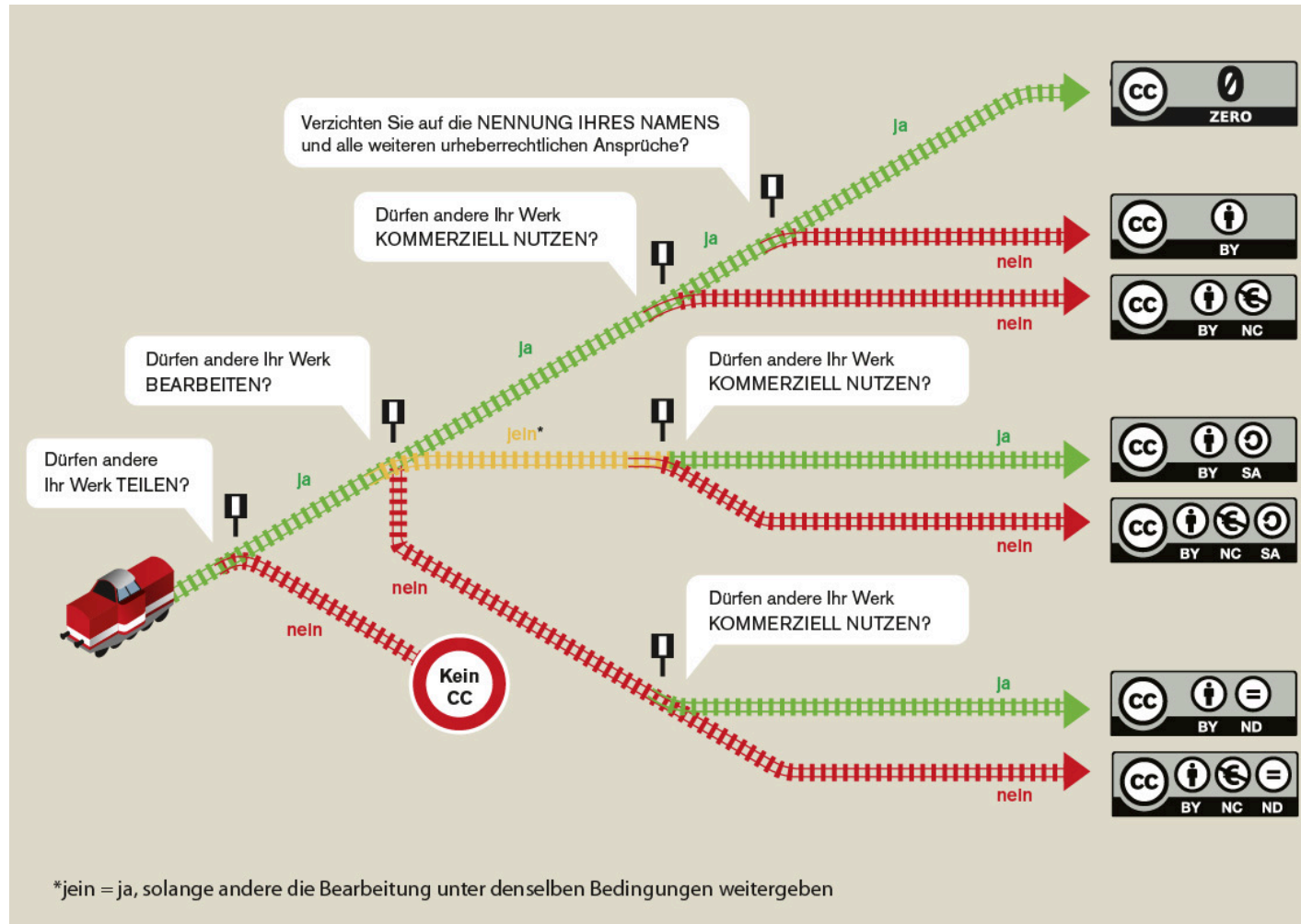
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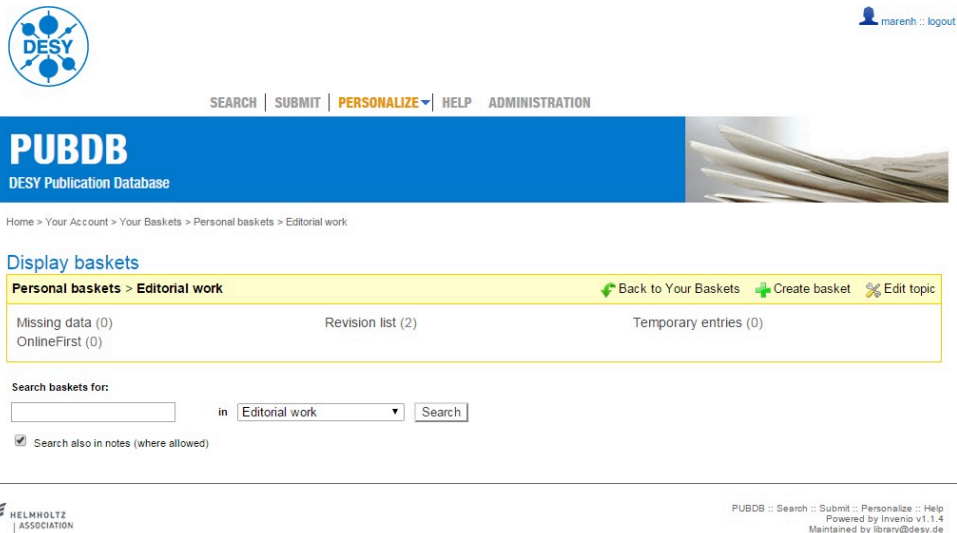
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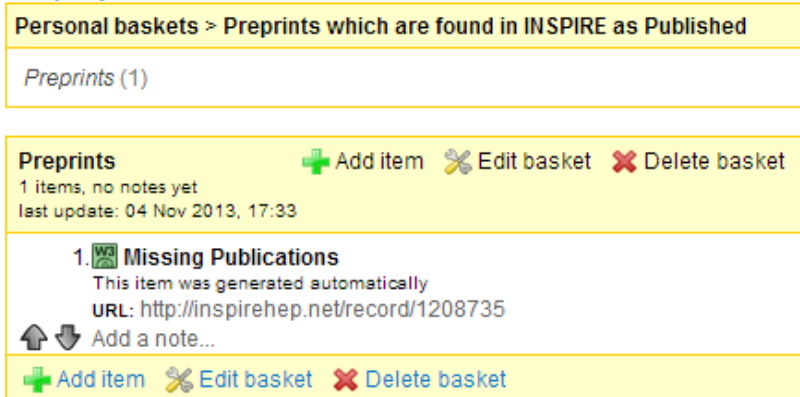


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- **OnlineFirst:** Online First Artikel von Revision-Liste hineinschieben (hier fehlen noch Seitenzahlen etc.)
- **Temporary Entries:** temporäre Einträge

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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 POF](#)
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- [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](#)
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- [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 (0.64 < x < 1)
Journal of applied physics 116(16), 163101 (2014) [10.1063/1.4897449] [LIBRARIES POF](#)
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- [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. [...]
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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 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

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Private Collection > >DESY > >FS > HASYLAB(-2012)
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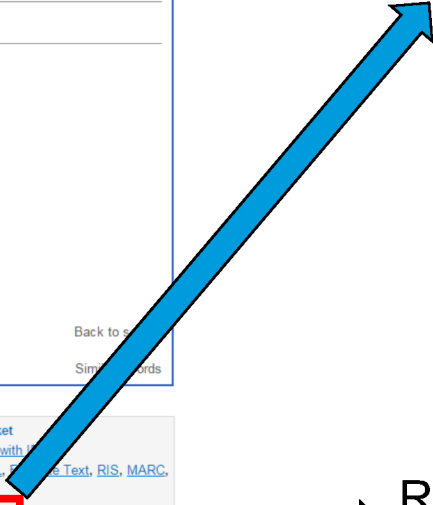
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Import history

ISBN ⓘ **Relevant for Reporting *** ⓘ ☒ yes ☐ no

Group(s) directly involved * ⓘ

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FS-CFEL-1-CMI: FS-CFEL-1 Fachgruppe CMI	×
UNI/EXP: Uni Hamburg / Experimentalphysik	×
UNI/CUI: beauftragt von UNI	×

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631 - Matter – Dynamics, Mechanisms and Control (POF IV: 2021 - 2026)	×
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Beamline/Experiment/Facility * ⓘ

No specific instrument (NOSPEC)	×
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e.g. REGAE

Grant name / Proposal No. ⓘ

631 - Matter – Dynamics, Mechanisms and Control (POF IV: 2021 - 2026)	×
SPP 1840-22 - Laser induced electron diffraction off strongly aligned and oriented molecules by tailored electric and laser fields (2015 -)	×
AIM - CUI: Advanced Imaging of Matter (2019 -)	×
Ex-Net-0002-Phase2-3 - Advanced Imaging of Matter: Structure, Dynamics and Control on the Atomic Scale - AIM (2018)	×

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

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Effects of radiation damage and inelastic scattering on single-particle imaging of hydrated proteins with an X-ray Free-Electron Laser
Scientific reports 11(1), 17976 (2021) [10.1038/s41598-021-97142-5]

Contributing Institute(s):
1. Gruppe CFEL-XM (FS-CFEL-XM)
2. FS-CFEL-3 (CFEL-DESYT)
3. CFEL-Theory (FS-CFEL-3)

Funding & Proposal numbers:
1. 631 - Matter – Dynamics, Mechanisms and Control (POF4-631) (POF4-631)

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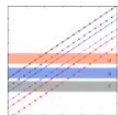
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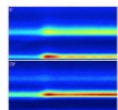
2020



Koulentianos, D. ; Fouda, A. ; Southworth, S. H. ; Bozek, J. D. ; Küpper, J. ; Santra, R. ; Kryzhevoi, N. ; Cederbaum, L. S. ; Bostedt, C. ; Messerschmidt, M. ; Berrah, N. ; Fang, L. ; Murphy, B. ; Osipov, T. ; Cryan, J. P. ; Glowina, J. M. ; Ghimire, S. ; Ho, P. J. ; Krassig, B. ; Ray, D. ; Li, Y. ; Kanter, E. ; Young, L. ; Doumy, G. (Corresponding author)

High intensity x-ray interaction with a model bio-molecule system: double-core-hole states and fragmentation of formamide

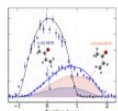
Journal of physics / B 53(24), 244005 (2020) [10.1088/1361-6455/abc183]



Karamatskos, E. ; Yarlagadda, S. ; Patchkovskii, S. ; Vrakking, M. ; Welsch, R. ; Küpper, J. (Corresponding author) ; Rouzée, A. (Corresponding author)

Time-resolving the UV-initiated photodissociation dynamics of OCS

Faraday discussions 228, 413 - 431 (2020) [10.1039/D0FD00119H]

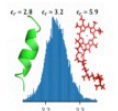


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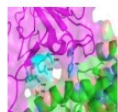
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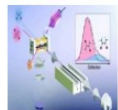
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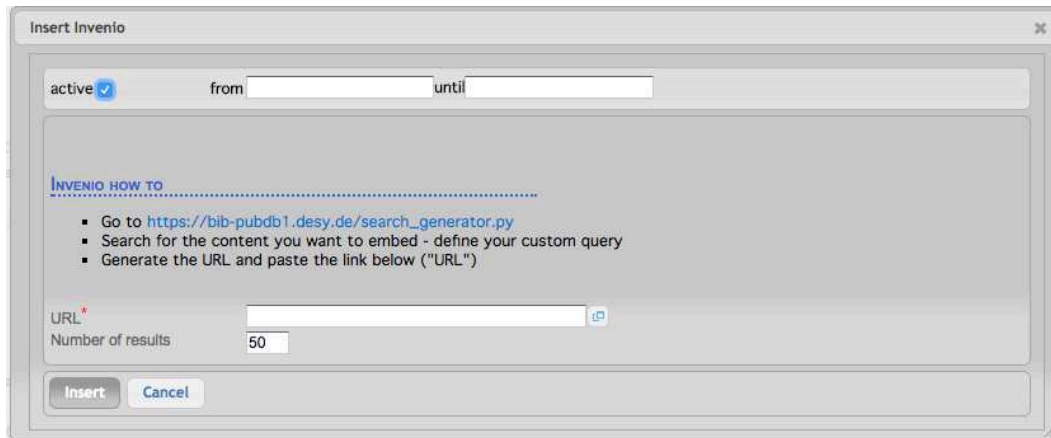
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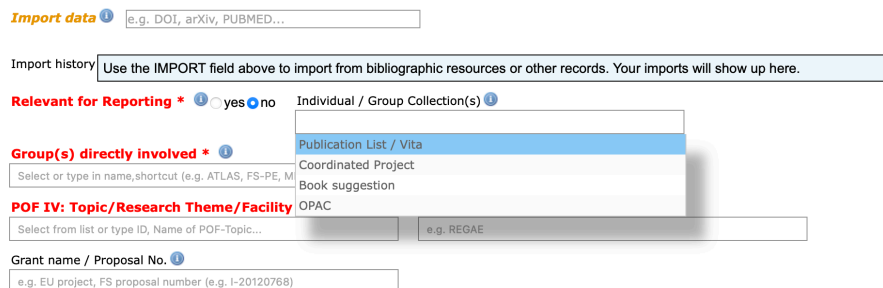
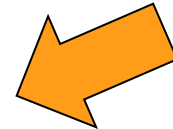
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Theory-HH	67	66	67	65	65	63	0	65	66	0	9	9	76	27	47	2	17	46
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Theory	4	0	93	4	1	0	0	87	0	179	4	37	47	0	8
Theory-HH	4	0	76	4	1	0	0	75	0	155	4	37	47	0	7
Theory-Zeuthen	0	0	17	0	0	0	0	12	0	24	0	0	0	0	1

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