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[PUBDB-2023-05595] Preprint
Fieg, M. ; Kling, F. ; Schulz, H. ; *et al*
Tuning Pythia for Forward Physics Experiments



Event generators like Pythia play an important role in physics studies at the Large HadronCollider (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)

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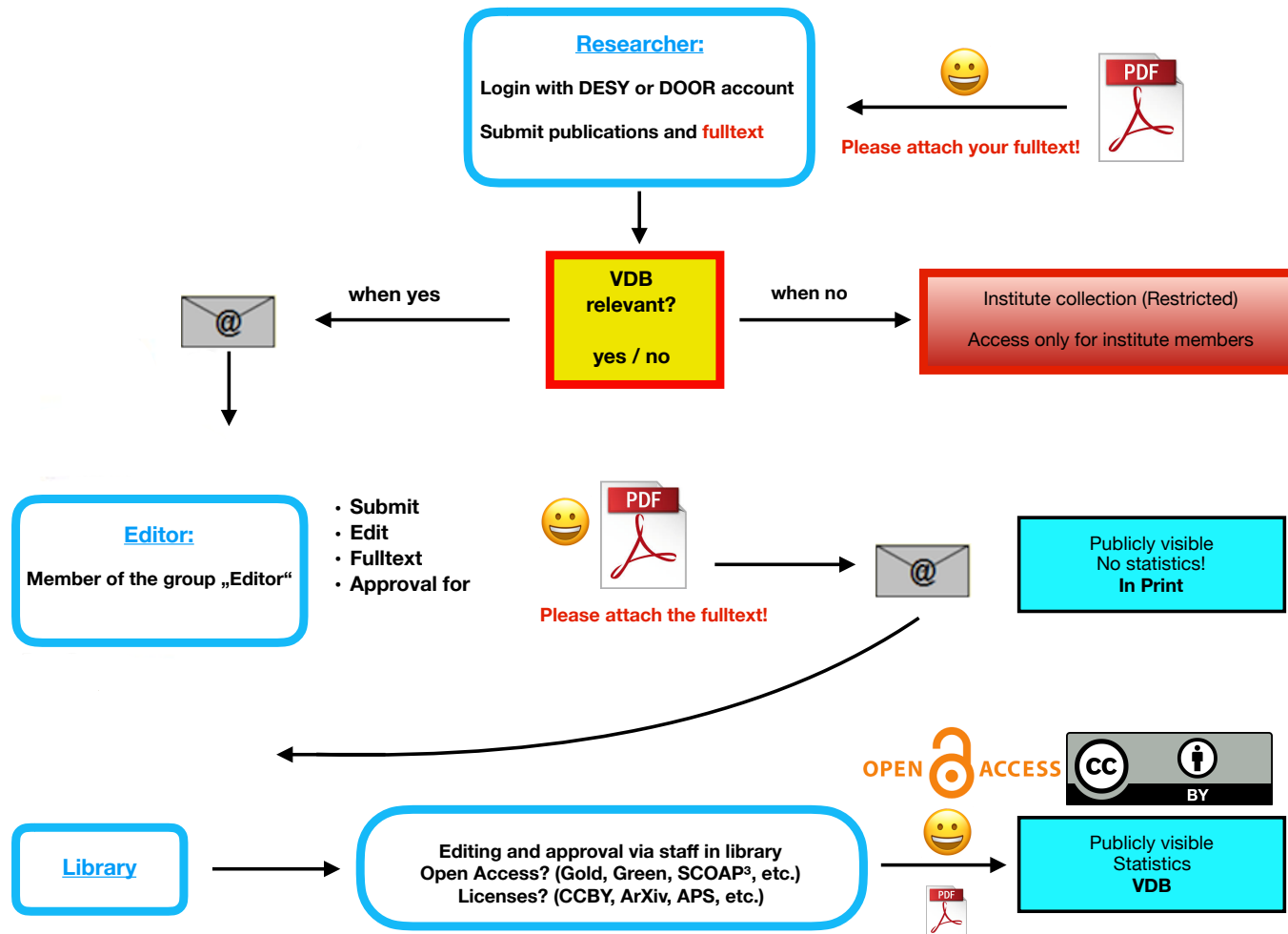
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Effect of screening by external charges on the atomic orbitals and photoinduced processes within the Hartree-Fock-Slater atom

Abstract

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

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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 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

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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)

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DOI: 10.1103/PhysRevA.86.033411

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CMS Collaboration · Serguei Chatrchyan (Yerevan Phys. Inst.) [Show All\(2186\)](#)

Mar 12, 2013

45 pages
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Diploma Thesis/Internal Report PUBDB-2014-03626

Untersuchung des Verhaltens von Streamerkammern bei verschiedenen Gaszusammensetzungen

Poon, R. (Corresponding Author)

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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] LIBRARIES FOR >>

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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>

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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] LIBRARIES FOR >>

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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] LIBRARIES FOR >>

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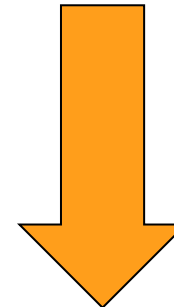
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Teschmit, Nicole -> Teschmit, Nicole (DESY, CFEL: nicole.teschmit@cfel.de / FS-CFELCM1|FS-CFELCM1) Author [Deutsches Elektronen-Synchrotron, Centre for Free-Electron Laser Science]  

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Długolecki, 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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Teschmit, Nicole [Extern]

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CFEL: Centre for Free-Electron Laser Science 

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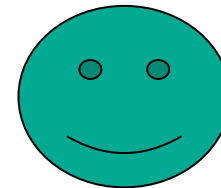
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Horke, Daniel A. -> Horke, Daniel (DESY, CFEL: daniel.horke@desy.de / FS-CFELCMI FS-CFEL-1) Author [Deutsches Elektronen-Synchrotron, Centre for Free-Electron Laser Science]	✕
Küpper, Jochen -> Küpper, Jochen (DESY, CFEL: jochen.kuepper@desy.de / FS-CFELCMI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

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Group(s) directly involved * ⓘ

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Beamline/Experiment/Facility * ⓘ

e.g. REGAE

Grant name / Proposal no. ⓘ

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

Report numbers ⓘ

Institution: Other ⓘ



POF IV: Topic/Research Theme/Facility * ⓘ

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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):

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- 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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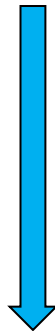
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POF IV: Topic/Research Theme/Facility * ⓘ

Beamline/Experiment/Facility * ⓘ

Grant name / Proposal No. ⓘ

Report numbers ⓘ



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)

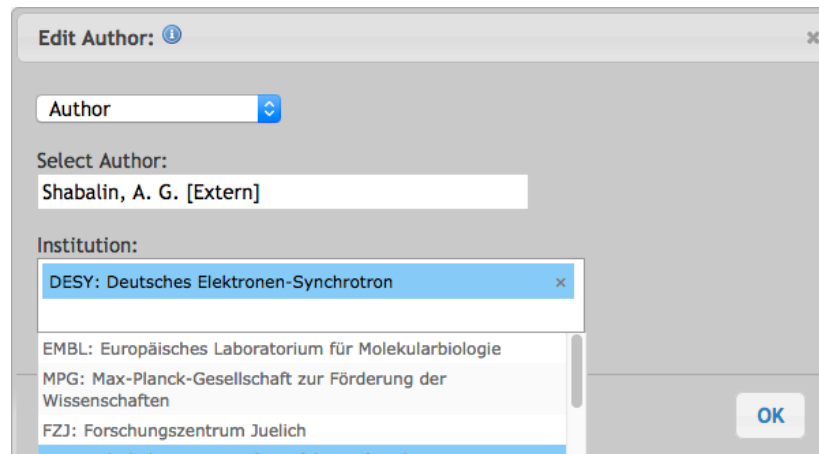
Experimentfeld:

- 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.

Konsistenzchecks:

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- eine Beamline (FLASH/PETRA/XFEL) angegeben: **zusätzlich LKII** wählen als zweites (6G*)
- POF4-899 ohne Topic nur, wenn es außerhalb der Förderung läuft
- Nur externe Autoren (bitte Autoren ganz genau checken): Nutzerbetrieb, d.h. **LKII wählen**
- Inhouse-Forschung auch, wenn Person schon Extern, Arbeit aber noch bei DESY entstanden ist
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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

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

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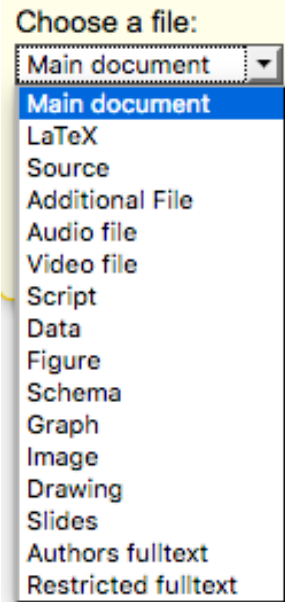
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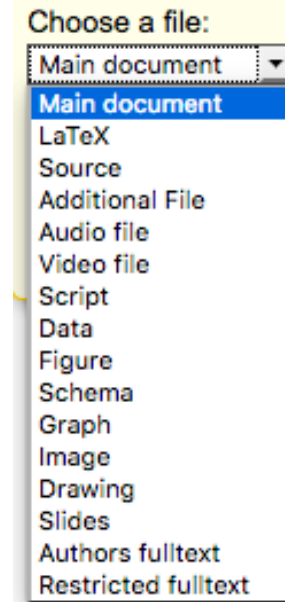
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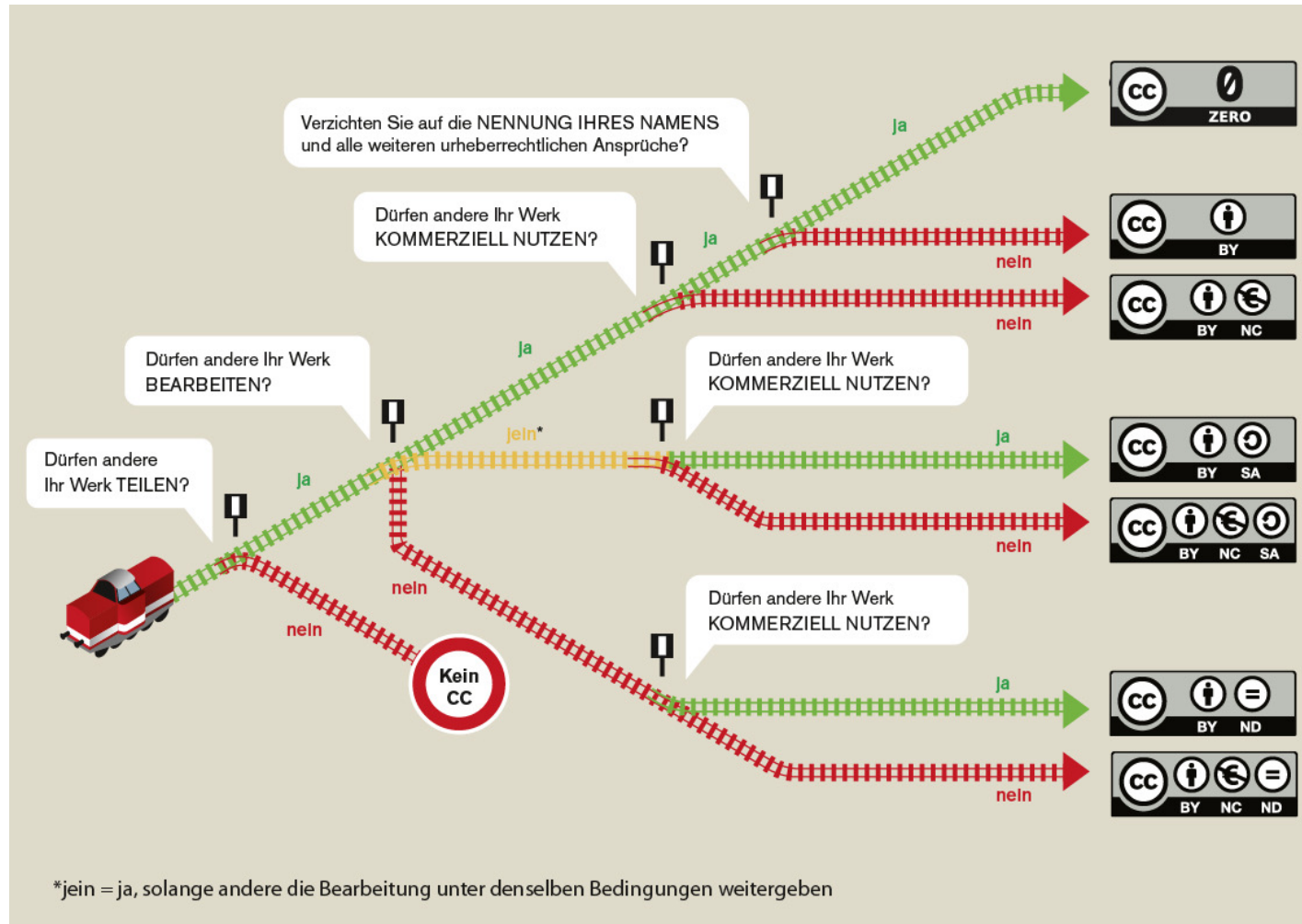
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PubDB: Basket-Funktion.

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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 has a yellow header bar with 'Personal baskets > Preprints which are found in INSPIRE as Published'. Below this is a section titled 'Preprints (1)'. The 'Preprints' section has a yellow background and contains the text '1 items, no notes yet' and 'last update: 04 Nov 2013, 17:33'. It lists one item: '1. Missing Publications' with a subtext 'This item was generated automatically' and a URL 'http://inspirehep.net/record/1208735'. Below the list is a link 'Add a note...'. At the bottom of the section are links for 'Add item', 'Edit basket', and 'Delete basket'.

Preprints:

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

PubDB: Die “Revision list”

Display baskets

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]
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]
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 (0.64 < x < 1)
Journal of applied physics, 116(16), (2014) [10.1063/1.4897449]
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]
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]
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PubDB: Detaillierte Artikel-Ansicht

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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:
JCR

The record appears in these collections:
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Workflow collections > Publications database
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Record created 2012-09-19, last modified 2014-10-14

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PubDB: Modify Funktion

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

Group(s) directly involved * ⓘ

FS-CFEL-3: CFEL-Theory	×
FS-CFEL-1-CMI: FS-CFEL-1 Fachgruppe CMI	×
UNI/EXP: Uni Hamburg / Experimentalphysik	×
UNI/CUI: beauftragt von UNI	×

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

POF IV: Topic/Research Theme/Facility * ⓘ

631 - Matter – Dynamics, Mechanisms and Control (POF IV: 2021 - 2026)	×
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Select from list or type ID, Name of POF-Topic...

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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Contact: Berit Heiser (berit.heiser@desy.de)
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E. J. ; Stransky, M. ; Jurek, Z. ; Fortmann-Grote, C. ; Juha, L. ; Santra, R. ; Ziaja, B. (Corresponding author) ; Mancuso, A. P.
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:
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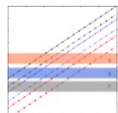
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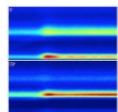
2020



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)

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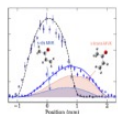
Journal of physics / B 53(24), 244005 (2020) [10.1088/1361-6455/abc183]



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

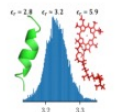
Faraday discussions 228, 413 - 431 (2020) [10.1039/D0FD00119H]



Wang, J. (First author) ; Kilaj, A. ; He, L. ; Długołęcki, K. ; Willitsch, S. (Corresponding author) ; Küpper, J. (Corresponding author)

Spatial Separation of the Conformers of Methyl Vinyl Ketone

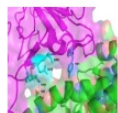
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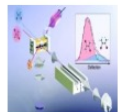
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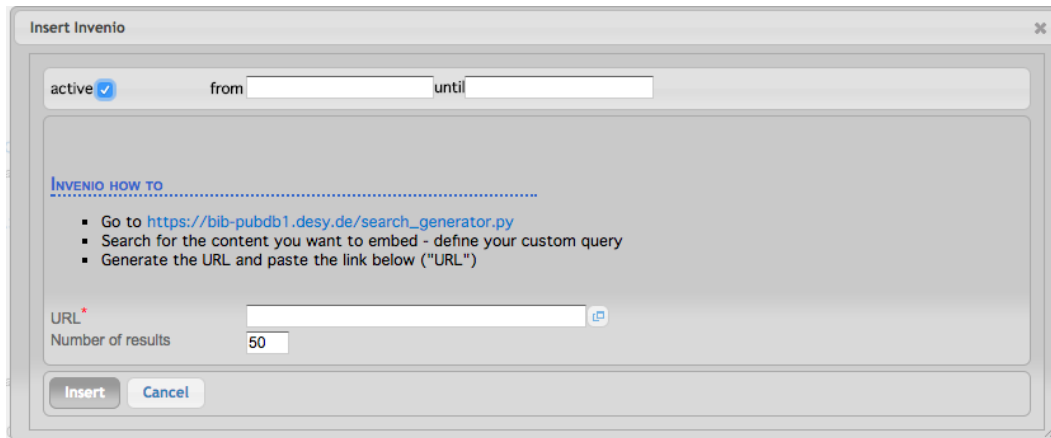
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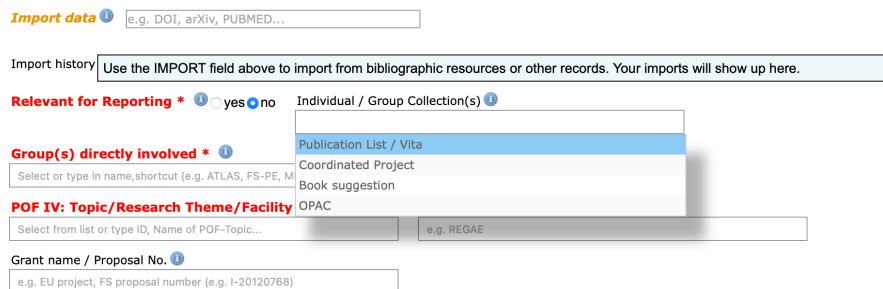
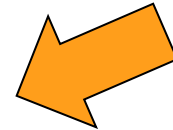
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Theory	83	82	83	81	80	78	0	80	82	0	10	10	93	40	55	2	28	50
Theory-HH	67	66	67	65	65	63	0	65	66	0	9	9	76	27	47	2	17	46
Theory-Zeuthen	16	16	16	16	15	15	0	15	16	0	1	1	17	13	8	0	11	4

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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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