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Schulung 2021

Robert Thiele

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PubDB Training 2021

Hamburg, 08.11.2021

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Naber, G. L.
Quantum mechanics : an introduction to the physical background and mathematical structure
Berlin : De Gruyter, De Gruyter Graduate XV, 554 pages (2021)

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2021-11-01
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Mainzer, K.
Quantencomputer : von der Quantenwelt zur Künstlichen Intelligenz
Berlin : Springer, Sachbuch IX, 256 Seiten : Illustrationen, Diagramme (2020) [10.1007/978-3-662-61998-8]

External link: Fulltext

ddc:006.3843

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2021-11-01
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Dongen, P. v.
Klassische Mechanik: von der Newton'schen Mechanik zur Relativitätstheorie in drei Postulaten
Berlin : Springer Spektrum, Lehrbuch xii, 638 Seiten : Diagramme (2021)



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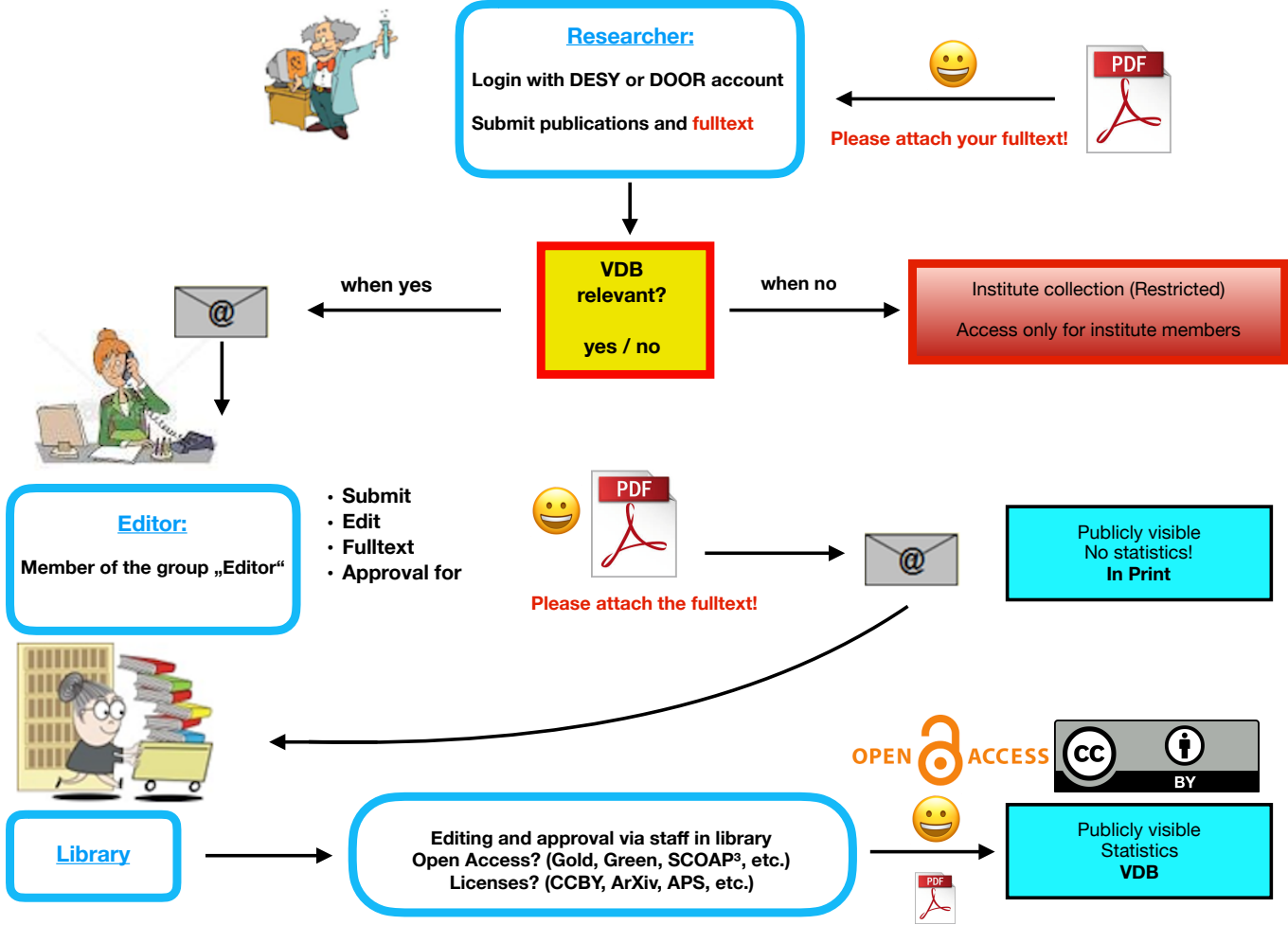
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Wolf, J.; Kania, S.: Shell-Programmierung: Das umfassende Handbuch Bonn : Galileo Pr., Galileo Computing : 4., aktual. u. erw. Aufl., 799 S., 1 CD (2013)	C Wol	2014-04-28	2021-06-10	Renew	
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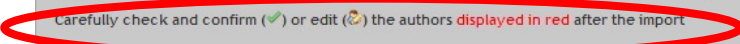
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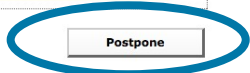
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Effect of screening by external charges on the atomic orbitals and photoinduced processes within the Hartree-Fock-Slater atom

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10.1103/PhysRevA.86.033411

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

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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

*robert.thiele@cfel.de

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

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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



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

Mar 12, 2013

45 pages
Published in: *Eur.Phys.JC* 73 (2013) 9, 2568
Published: Sep 18, 2013
e-Print: 1303.2985 [hep-ex]
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

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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):

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

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

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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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Weiglein, G.

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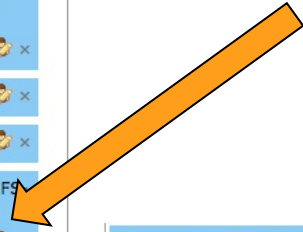
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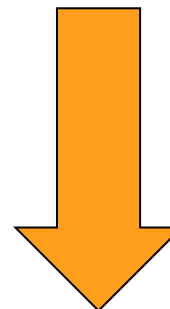
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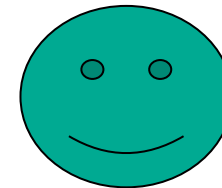
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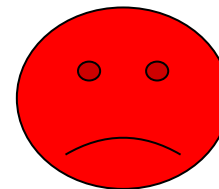
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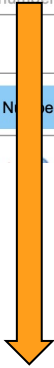
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Distributions of topological observables in inclusive three- and four-jet events in pp collisions at $\sqrt{s} = 7$ TeV

[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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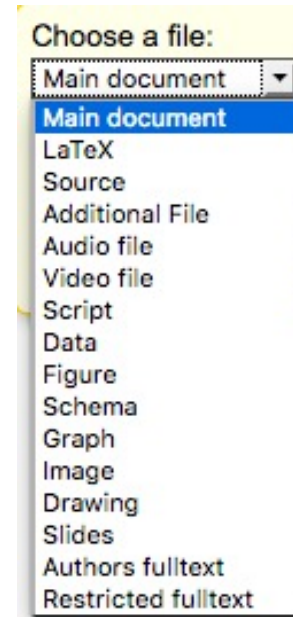
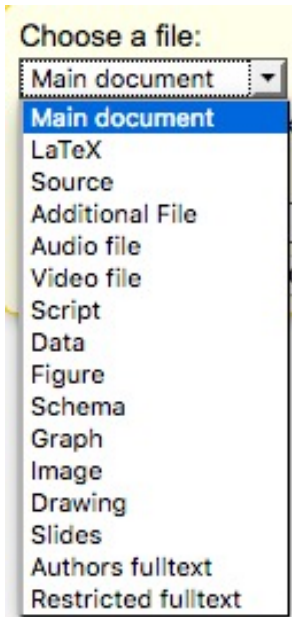
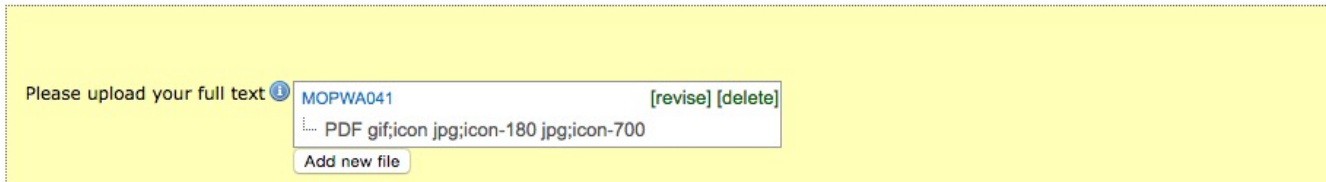


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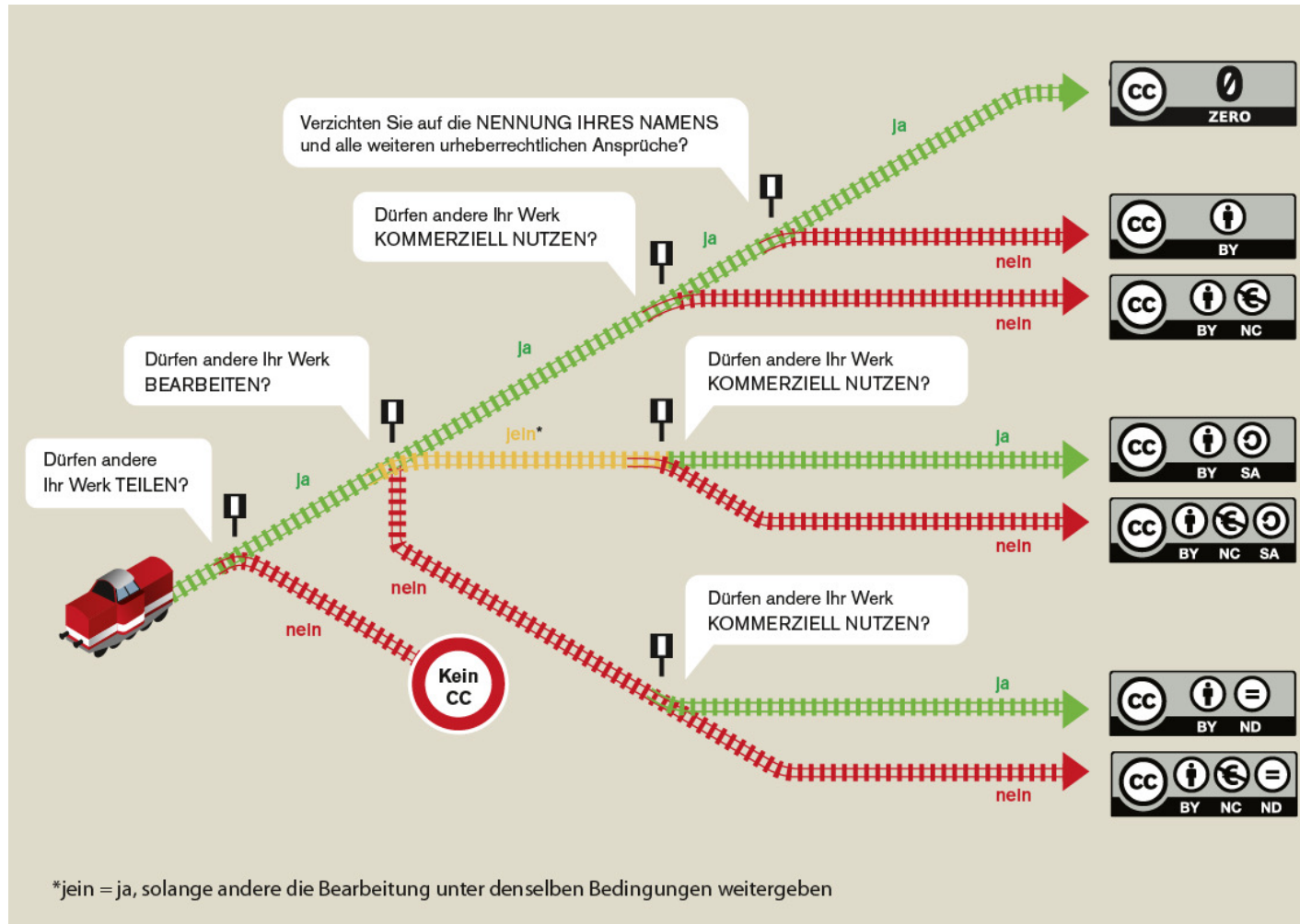


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Hartmann wavefront sensor for EUV radiation
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36th International Free Electron Laser Conference, FEL 2014, Basel, Switzerland, 08/25/2014 - 08/29/2014 (2014)
The accurate, non-destructive measurements 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. [...]
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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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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

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2. Experiments with synchrotron radiation (HASYLAB(-2012))

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Scientific reports 11(1), 17976 (2021) [10.1038/s41598-021-97142-5] [BibTeX](#) | [EndNote: XML, Text](#) | [RIS](#)

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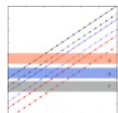
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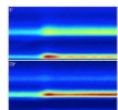
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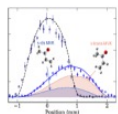
Journal of physics / B 53(24), 244005 (2020) [10.1088/1361-6455/abc183]



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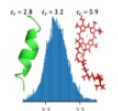
Faraday discussions 228, 413 - 431 (2020) [10.1039/D0FD00119H]



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

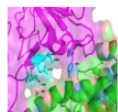
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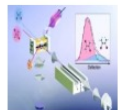
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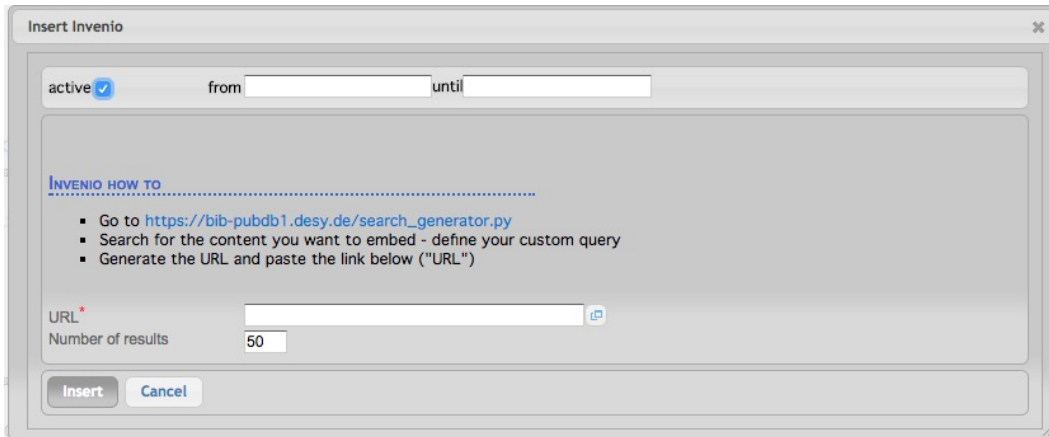
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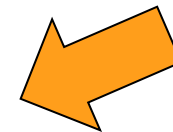
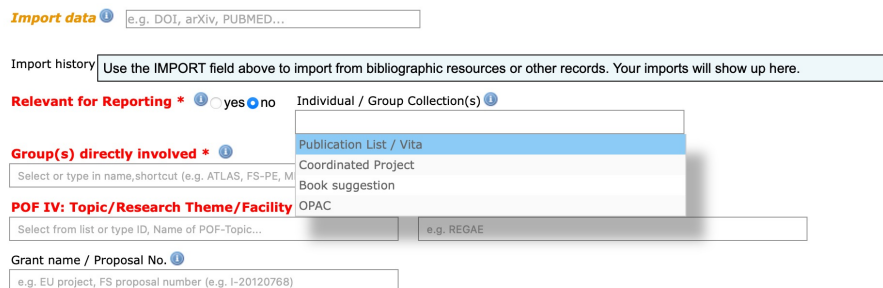
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600 - Forschungsbereich Materie (POF IV: 2021 - 2026)	-	-	-	-	-	67%	87%
610 - Materie und Universum (POF III: 2015 - 2020)	97%	100%	98%	99%	98%	89%	-
610 - Matter and the Universe (POF IV: 2021 - 2026)	-	-	-	-	-	50%	90%
611 - Fundamental Particles and Forces (POF III: 2015 - 2020)	98%	100%	99%	99%	99%	94%	-
611 - Fundamental Particles and Forces (POF IV: 2021 - 2026)	-	-	-	-	-	50%	97%
613 - Matter and Radiation from the Universe (POF III: 2015 - 2020)	92%	98%	95%	98%	91%	74%	-
613 - Matter and Radiation from the Universe (POF IV: 2021 - 2026)	-	-	-	-	-	-	56%
620 - Matter and Technologies (POF IV: 2021 - 2026)	-	-	-	-	-	-	85%
620 - Von Materie zu Materialien und Leben (POF III: 2015 - 2020)	61%	67%	71%	82%	82%	72%	-

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Additional Parameters:

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POF Category:

WEB year:

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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

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

PubDB – Statistiken.

Automatisierte Tabellen für POF und Gruppen

Per institute and statistics key

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	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

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Per institute and document type

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	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

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- POFIV wurde 2021 implementiert, Erstellung der Normdatensätze, Erfassung von Altdaten
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