

JOIN²

A Publication Database and Repository based on Invenio

Alexander Wagner
Budva Bečići, 02.10.2019

HELMHOLTZ RESEARCH FOR
GRAND CHALLENGES



Overview



- > Motivation and project layout
- > Main features
- > What you do not see
- > Publishing your work
- > Data publications

Motivation

- 1 Visibility (on the Web, in search engines, OpenAIRE, BASE...)
- 2 Web integration (integrate publications with institutes pages)
- 3 OpenAccess (increases visibility and indexing)
- 4 Document collections (including private areas)
- 5 Publication lists (on the Web, in reports, for PR)
- 6 Search & Browse (via database homepage)
- 7 Reporting (Institutional, EU, other funders...)



Authority control (librarians slang)

- > unify and normalize spelling (still: names are but sound and smoke...)
- > allow for “exact matches” (based on unique IDs)
- > handle different languages and scripts (UTF-8 and $\LaTeX$)



JOIN² collaboration

 	Deutsches Elektronen-Synchrotron, DESY Deutsches Krebsforschungszentrum RWTH Aachen Museum Zitadelle Jülich	≈ 2300 + 3000 ≈ 3000 (internal access only) ≈ 9500 ≈ 3 + n
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JOIN²: proud to serve

9 institutions,

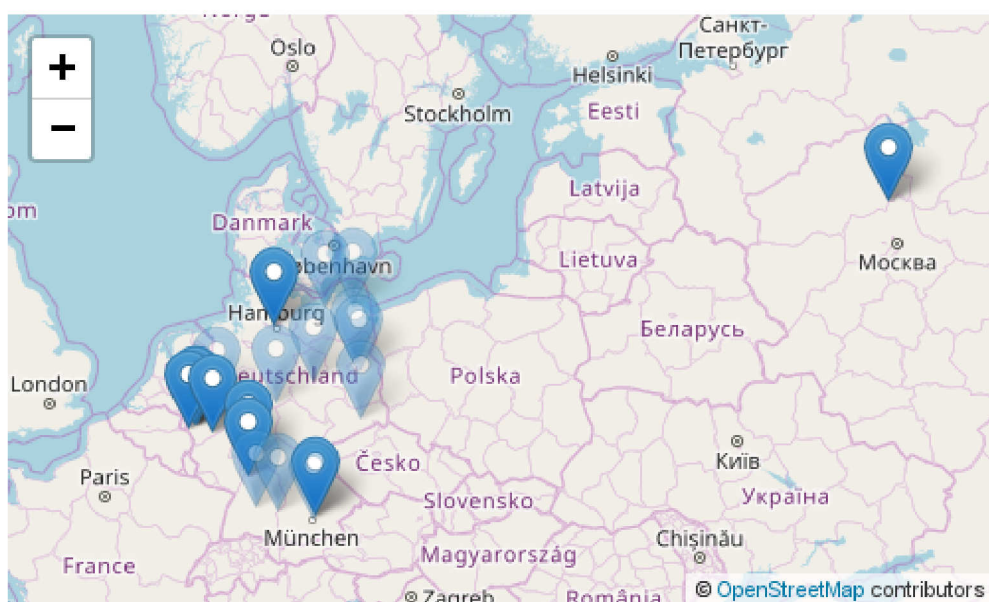
> 28.000 staff members

> 6000 visiting scientists

(≈ 475.000 records, ≈ 68.000 OpenAccess, ≈ 135.000 shared authorities)



Put it on the map...



Current challenge

Cyrillic script

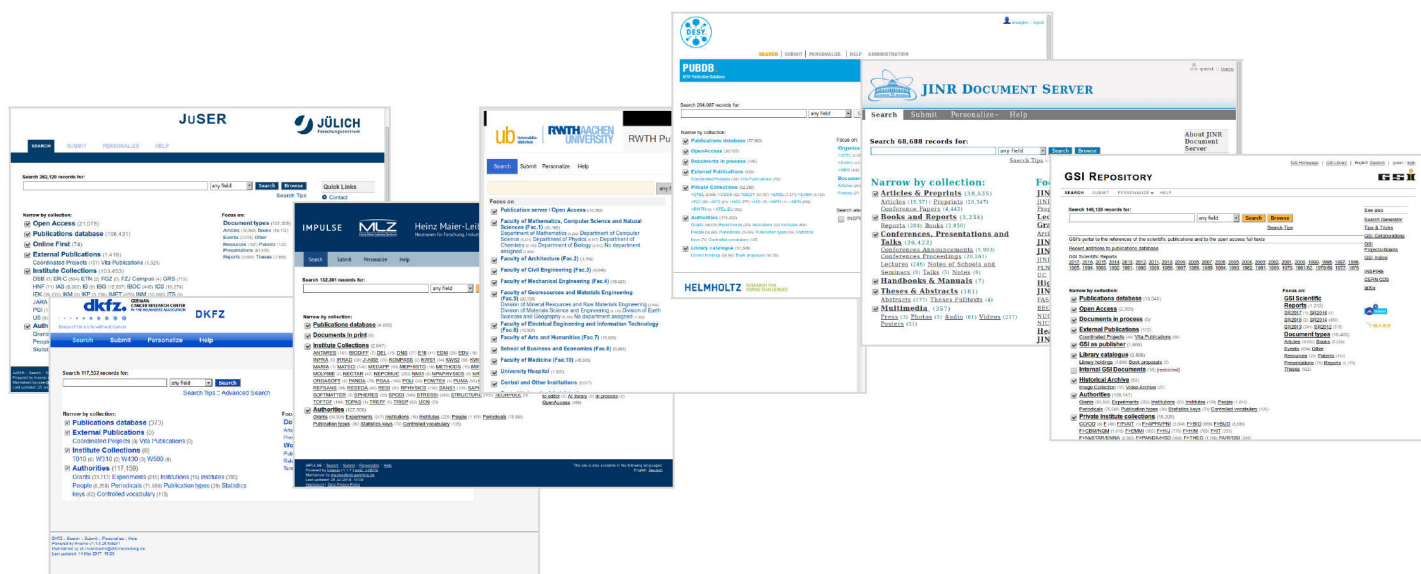
Wagner, Alexander
or
Александр Вагнер?

- both forms searchable
- authority display
- bibliographic display

(Affects authors, journals, grants, experiments...)



Installations online



Individual instances, powered by the partners on site



Easy, live Weboutput



Integrates with your current web pages

Publication lists need data as detailed as for evaluations...

(aid, cid, fai pof, pub, sid, typ ...)



JOIN²-- Main features

- > Import interfaces (ease up input, improve data quality)
- > Exports to BibT_EX/EndNote/RIS (Integrate with citations management)
- > Full text handling (private and OpenAccess, OpenAIRE )
- > Private collections
 - collect and share documents (in your institutes/groups)
 - integrate collection and reporting
- > Normalize as much as possible (Key: Authorities)
 - Authors (tell apart Smith and Smith, handle Wagner and Вагнер,  ORCID enabled)
 - Institutes (group level)
 - Journals
 - Projects (EU, (inter-)national, local funding...)
 - ...

Scientists

...don't need to care
about technical
details ...



Import

- > DOI: insert doi or doi.org-url (e. g. 10.1016/j.physletb.2006.11.038)
- > INSPIRE: use URL (e. g. https://inspirehep.net/record/730481)
- > arXiv.org: copy as displayed (e. g. arxiv:hep-ph/0610431)
- > pubmed: copy as displayed (e. g. PMID: 20923669)
- > ISBN: use the ISBN-field for this import
- > ...
- > reuse existing data (e. g. conferences)

Import data ⓘ e.g. DOI, arXiv, PUBMED... **Relev**

Group(s) directly involved * ⓘ
Select or type in name, shortcut (e.g. ATLAS, FS-PE, MI)

POF III: Topic/Research Theme/Facility * ⓘ **Beamli**
Select from list or type ID, Name of POF-Topic... e.g. RE

- reci
- prep
- join
- part

Import data:

Selectron production at an e^+e^- linear collider with transversely polarized beams / Bartl, A. ; Physics letters / B B 644 165 - 171 ; Amsterdam : North-Holland Publ., 2007 ; 10.1016/j.physletb.2006.11.038 ;

Carefully check and confirm (✓) or edit (✎) the authors displayed in red after the import and choose the roles where appropriate (e.g. Corresponding author)

Import **Discard**



E. g. DOI Import

Submit New Record - PUBDB - Mozilla Firefox

https://bib-pubdb1.desy.de/submit?startpg=1&pub=5&journal=&in=en&doctype=journal&mainmenu=...

Import data ⓘ e.g. DOI, arXiv, PUBMED... **Relevant for Reporting *** ⓘ yes no

Group(s) directly involved * ⓘ
Select or type in name, shortcut (e.g. ATLAS, FS-PE, MI)

POF III: Topic/Research Theme/Facility * ⓘ
Select from list or type ID, Name of POF-Topic...

Beamline/Experiment/Facility * ⓘ
Antarctic Muon And Neutrino Detector Array (AMANDA)
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)

Grant name / Proposal No. ⓘ
e.g. EU project, FS proposal number (e.g. I-20120768)

Author(s) / Editor(s) * ⓘ

Bartl, A. [Extern] Author

Fraas, H. [Extern] Author

Hohenwarter-Sodek, K. [Extern] Author

Kernreiter, T. [Extern] Author

Moortgat-Pick, G. -> Moortgat-Pick, Gudrid (DESY: gudrid.moortgat-pick@desy.de / FLC) Author [Deutsches Elektronen-Synchrotron]

Wagner, A. -> Wagner, Armin (Extern: armin.wagner@diamond.ac.uk / FS-PS [PhotonScience] HAS-User) Author [External Institute]

Start typing lastname and select...

Title * ⓘ
Selectron production at an e^+e^- linear collider with transversely polarized beams

Title preview:
Selectron production at an e^+e^- linear collider with transversely polarized beams

Journal * ⓘ Physics letters / B **DOI** ⓘ 10.1016/j.physletb.2006.11.038

Volume * ⓘ 644 **Issue** ⓘ 2-3 **Pages** ⓘ 165 - 171

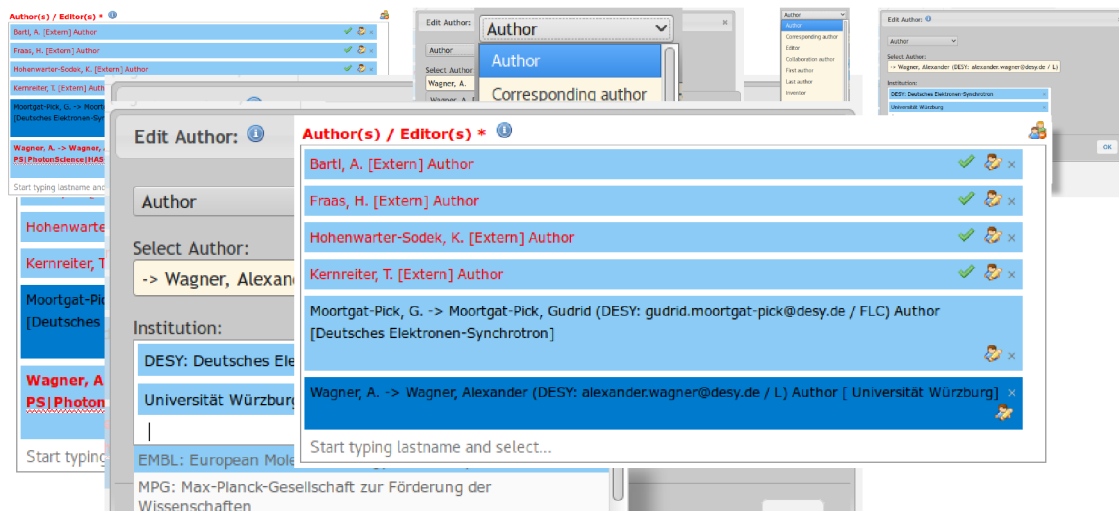
Most mandator (red) fields are already filled in!

But:

- > Take care of authors
- > Add your funding
- > Add facilities used



Author disambiguation and roles



All this is automatic, if

the source of the import gives the

 ORCID

(or -ID, any other ID the system knows of)

What you do not see



- > Microformats (e. g. schema.org to enhance visibility and indexing)
- > Normalization (Authorities and all that...)
- > Author identifier ( ORCID, Inspire...)
- > Data enrichment (e. g. uplinks to  or WoS, feed )
- > OAI-PMH (Feed search engines etc, OpenAIRE delivery)
- > publishing workflow (more than putting it on some page)
- > DOI minting (commitment to availability for $t \gg 0$)
- > APC handling (Gold OpenAccess, SCOAP³, DEAL...)
- > Library system (DESY, GSI)
- > Setup and maintenance (semiautomatic roll-out)
- > Reporting tools

$\sum *.py > 150k$ lines

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Publishing workflow: DESY-PROC

- > create and publish the book
(including printing and ISBN assignment)
- > deposit archival copies (dnb, TIB)
- > DOI minting
(make it citeable, commit to availability and update ☺)
- > clean up metadata
- > publish individual articles online
- > DOI minting
(make them citeable, commit to availability and update ☺)
- > notify DESY groups
(add funding to own articles)
- > push data to INSPIRE
(via DESY ingest workflow)

Information Files Holdings

BookProceedingsReport PUBDB-2017-00171

Hamburg neutrinos from supernova explosions. Proceedings, Workshop, HANSE 2011

Mirizzi, A. (Editor) ; Serpico, P. D. (Editor) ; Sigl, G. (Editor)

2011

Verlag Deutsches Elektronen-Synchrotron Hamburg
ISBN: 978-3-933702-53-9

Hamburg Neutrinos From Supernova Explosions, HANSE 2011, Hamburg, Germany, 19 Jul 2011 - 23 Jul 2011

Contributions / Info
Hamburg : Verlag Deutsches Elektronen-Synchrotron, DESY-PROC 1-166 (2011) [10.3204/DESY-PROC-2011-03]

Please use a persistent id in citations: doi:10.3204/DESY-PROC-2011-03

Report No.: DESY-PROC-2011-03;

Linked articles:

Contribution to a conference proceedings/Contribution to a book
Bruenn, S. W. ; Lentz, E. J. ; Lingerfel, E. J. ; Mezzacappa, A. ; Hix, W. R. ; Blondin, J. N. ; Bronson Messer, O. E. ; Marronetti, P.
Neutrinos and Supernovae
Bruenn, Stephen W. "Neutrinos and supernovae" in Hamburg neutrinos from supernova explosions. Proceedings, Workshop, HANSE 2011 / Mirizzi, Alessandro (eds.), Verlag Deutsches Elektronen-Synchrotron : 2011 ; HANSE 2011 : Hamburg Neutrinos From Supernova Explosions, 2011-07-19 - 2011-07-23, Hamburg
Hamburg Neutrinos From Supernova Explosions, HANSE 2011, Hamburg, Germany, 19 Jul 2011 - 23 Jul 2011
Contributions / Info Hamburg : Verlag Deutsches Elektronen-Synchrotron, DESY-PROC 3-13 (2011) [10.3204/DESY-PROC-2011-03/bruenn]

Contribution to a conference proceedings/Contribution to a book
Müller, B. ; Janka, R.-T. ; Marek, A. ; Hanks, F. ; Wongwathanarat, A. ; Müller, E.
Core-Collapse Supernovae: Explosion dynamics, neutrinos and gravitational waves
Müller, Bernhard "Core-collapse supernovae: Explosion dynamics, neutrinos and gravitational waves" in Hamburg neutrinos from supernova explosions. Proceedings, Workshop, HANSE 2011 / Mirizzi, Alessandro (eds.), Verlag Deutsches Elektronen-Synchrotron : 2011 ; HANSE 2011 : Hamburg Neutrinos From Supernova Explosions, 2011-07-19 - 2011-07-23, Hamburg
Hamburg Neutrinos From Supernova Explosions, HANSE 2011, Hamburg, Germany, 19 Jul 2011 - 23 Jul 2011
Contributions / Info Hamburg : Verlag Deutsches Elektronen-Synchrotron, DESY-PROC 14-21 (2011) [10.3204/DESY-PROC-2011-03/mueller]

Contribution to a conference proceedings/Contribution to a book
Ott, C. D. ; O'Connor, E. P. ; Dargatzis, S.
New aspects and boundary conditions of core-collapse supernova theory
Ott, Christian D. "New aspects and boundary conditions of core-collapse supernova theory" in Hamburg neutrinos from supernova explosions. Proceedings, Workshop, HANSE 2011 / Mirizzi, Alessandro (eds.), Verlag Deutsches Elektronen-Synchrotron : 2011 ; HANSE 2011 : Hamburg Neutrinos From Supernova Explosions, 2011-07-19 - 2011-07-23, Hamburg
Hamburg Neutrinos From Supernova Explosions, HANSE 2011, Hamburg, Germany, 19 Jul 2011 - 23 Jul 2011
Contributions / Info Hamburg : Verlag Deutsches Elektronen-Synchrotron, DESY-PROC 22-35 (2011) [10.3204/DESY-PROC-2011-03/ott]



Article Processing Charges / Publication Fees

Traditional publication model

- > Closed Access publication
- > Pay to read
- > Fees: journal subscriptions
(subscriptions ↑↑↑ inflation, "serials crisis")
- > Additional fees:
 - article buy out (hybrid Open Access)
 - page charges
 - colour charges
 - cover charges
 - submission fees

APC based model

- > Open Access publication
- > Pay to publish
- > Fees: several components
(e. g. base fees, licences, reductions, global/national contracts)
- > Changes:
 - new, different workflows
 - publisher and journal dependent
 - one bill per publication
 - several budgets (e. g. project funding)
 - complex contracts (e. g. DEAL)

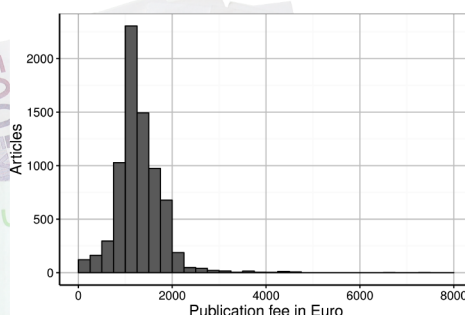
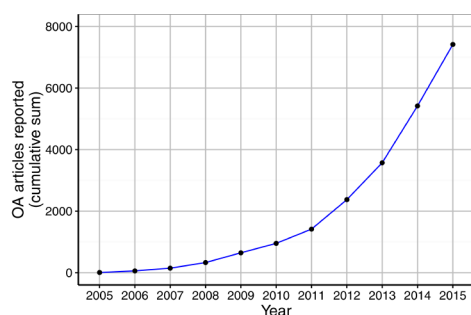
Helpdesk for authors

(copyright, authors rights, necessary fees, handling, funding possibilities, funder requirements etc.)

Manage "the paperwork" centrally at the libraries.
Keep track of the total costs of publishing for future contracts.



APC Handling



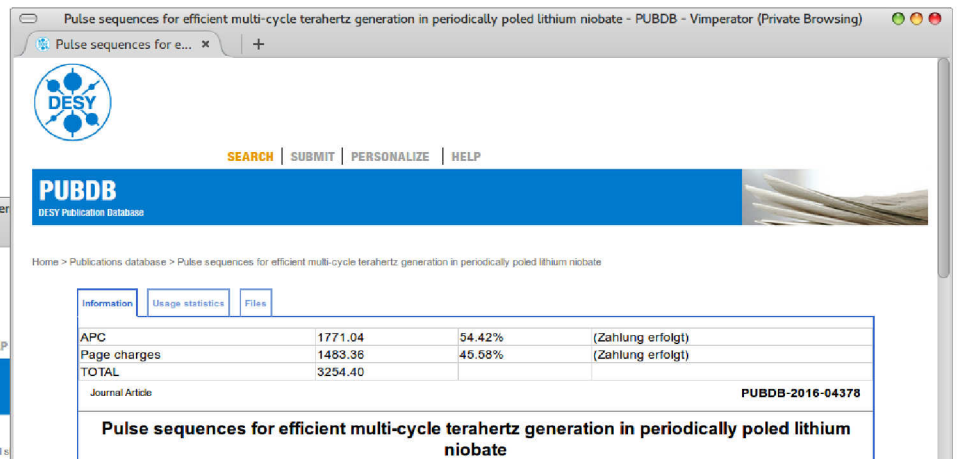
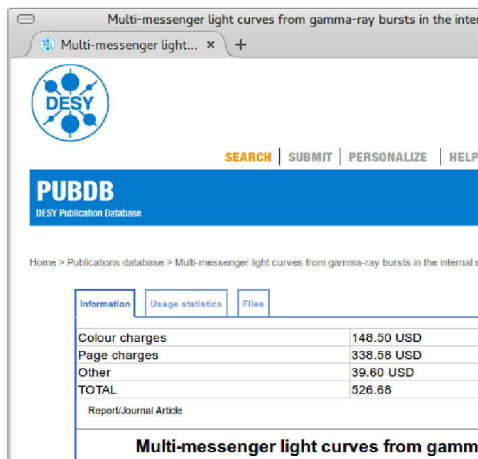
Jahn N., Tullney M. (2016) A study of institutional spending on open access publication fees in Germany. *PeerJ* 4:e2323 <https://doi.org/10.7717/peerj.2323>

Austrian Science Fund (FWF)	€13.445.549	2017: €7.187.295	€2.243	2017: €2.169
Wellcome Trust	€11.966.250	2017: €10.750.792	€2.408	2017: €2.456
Forschungszentrum Jülich	€1.055.902	2017: €196.869	€1.517	2017: €1.246
open@PC (full set)	€162.943.280		€1.941	

Source: OpenAPC-DE/intact project, 2019-09-03



Users Display



Outlook: Datapublications

Current infrastructure is not suitable for intermediary to large data sets (GB and up).

(Slow up-/download, limited storage backends)

- > small data sets: like normal publications
- > others: link to data repositories (e.g. Zenodo)
- > future
 - Invenio 3.x
 - improve storage backend
 - improve general infra structure

Datasets may include complex permission handling as well as referencing unpublished/embargoed data sets, even on external storage solutions.

(see e. g. implementation at RWTH Aachen)



Thank you!

Contact

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Elektronen-Synchrotron

www.desy.de

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+49-40-8998-1758
[10.3204/PUBDB-2019-02865](https://doi.org/10.3204/PUBDB-2019-02865)



Typeset by lua^AT_EX

