Invenio@HGF – Collaborative repository infrastructure

Open Repositories 2014 - Helsinki

Alexander Wagner[1], Robert Thiele[2]
for the Collaboration

[1]Forschungszentrum Jülich, Zentralbibliothek
[2]DESY Hamburg, Bibliothek

13. June 2014

Overview

- Partner
- Initial TODO
- Accomplishments
- Lessons learned
- Project group

Project Partners

Deutsches Elektronensynchrotron, Zentralbibliothek	$\approx 2000 + 3000$
Forschungszentrum Jülich, Zentralbibliothek	$\approx 5000 + 1000$
GSI Helmholtzzentrum für Schwerionenforschung, Bibliothek + Base-IT	≈ 1050
Deutsches Krebsforschungszentrum, Biblitohek	≈ 3000
Maier-Leibniz-Zentrum, Garching	≈ 300
RWTH Aachen, Hochschulbibliothek	≈ 9000
Museum Zitadelle Jülich	
Institut für Experimentelle Kernphysik, Karlsruhe	

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Open for new **Partners**!

Serving now ≈ **20.000** people (+ visitors)

(≈ 260.000 documents + 80.000 Authorities)

New partner: Deutsches Krebsforschungszentrum

dkfz.

IN THE HELMHOLTZ ASSOCIATION

50 Years – Research for A Life Without Cancer

- Largest german bio-medicine research center
- 3000 people:
  1000 researchers inside
- over 90 divisions and groups: research of cancer-producing, risk factors and strategies against cancer
- Replacing of own existing repository system with Invenio@HGF
- Roll out planned for mid of 2015

Starting out

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Replace existing systems, at GSI build up from scratch.
User-centric design (users aka scientists)

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Initial ToDo

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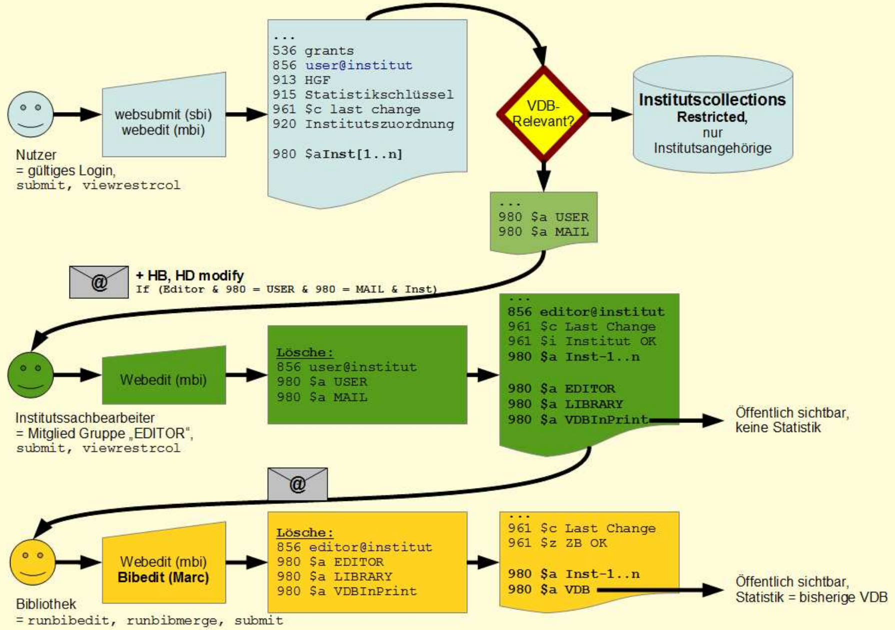
websubmit (sbi)
webedit (mbi)
Nutzer
= gültiges Login,
submit, viewrestrcol
...
536 grants
856 user@institut
913 HGF
915 Statistikschlüssel
961 $c last change
920 Institutszuordnung
980 $aInst[1..n]
VDB-Relevant?
Institutscollections
Restricted,
nur
Institutsangehörige
...
980 $a USER
980 $a MAIL
@
+ HB, HD modify
If (Editor & 980 = USER & 980 = MAIL & Inst)
Webedit (mbi)
Institutssachbearbeiter
= Mitglied Gruppe „EDITOR",
submit, viewrestrcol
Lösche:
856 user@institut
980 $a USER
980 $a MAIL
...
856 editor@institut
961 $c Last Change
961 $i Institut OK
980 $a Inst-1..n
980 $a EDITOR
980 $a LIBRARY
980 $a VDBInPrint
Öffentlich sichtbar,
keine Statistik
@
Webedit (mbi)
Bibedit (Marc)
Bibliothek
= runbibedit, runbibmerge, submit
Lösche:
856 editor@institut
980 $a EDITOR
980 $a LIBRARY
980 $a VDBInPrint
...
961 $c Last Change
961 $z ZB OK
980 $a Inst-1..n
980 $a VDB
Öffentlich sichtbar,
Statistik = bisherige VDB

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Preprint

Import data DOI, arXiv, PUBMED...

ISBN 978-3-642-12893-6

Group(s) involved *

T: Theorie-Gruppe ×

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

Beamline/Experiment/Facility (Automatically assigns Grants) *

514 - Theoretical Particle Physics (POF II: 2010 - 2014) ×

Select PETRA beamline, HERA, facility machine,...

Grant name / Proposal No.

514 - Theoretical Particle Physics (POF II: 2010 - 2014) ×

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

Report Number

DESY 14-075

Author(s) / Contributor(s) *

Bonvini, Marco -> Bonvini, Marco (>DESY / T) Corresponding Author ×

Marzani, Simone [Extern] Author ×

Start typing lastname and select...

Title *

Resummed Higgs cross section at N^{3}LL

Title preview:

Resummed Higgs cross section at N^3LL

Journal Type name, issn...; use "" for exact match or fields e.g. title:"nature"

DOI Use Import data for automatic prefill

Volume Issue Pages e.g 47-103

Publication Year * 2014 Language Click to select...

Edition 5th ed. Publisher Forschungszentrum Jülich, Verlag

Place of publication Jülich

Title Series

Abstract

We present accurate predictions for the inclusive production of a Higgs boson in proton-proton collisions, via gluon-gluon fusion. Our calculation includes next-to-next-to-leading order (NNLO) corrections in perturbative QCD, as well as the resummation of threshold-enhanced contributions to next-to-next-to-leading logarithmic (N^{3}LL) accuracy, with

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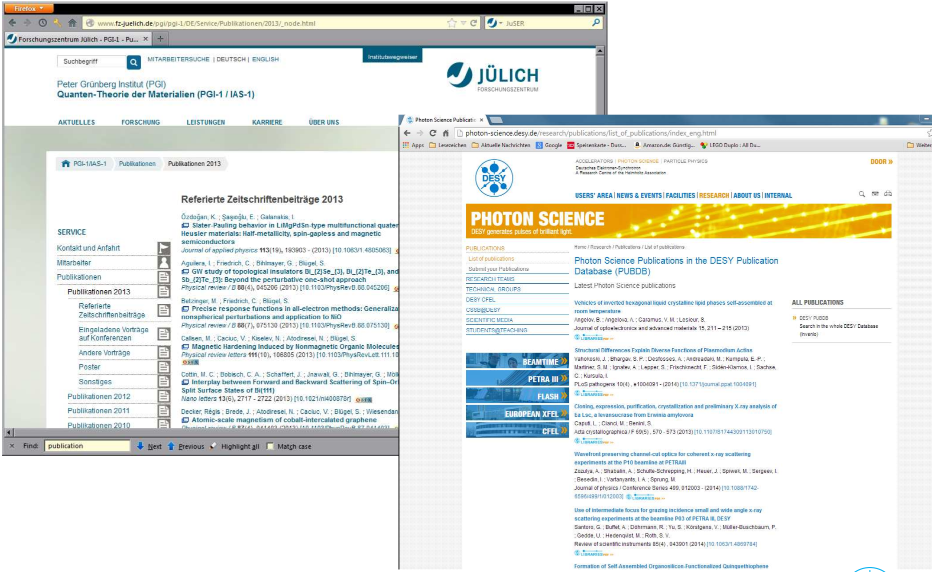
- Migrate old data (various, proprietary sources)
- Train the inputters and users (secretaries, scientists, librarians)
- Hook up with content management system(s) (visibility!)

Content management system(s)



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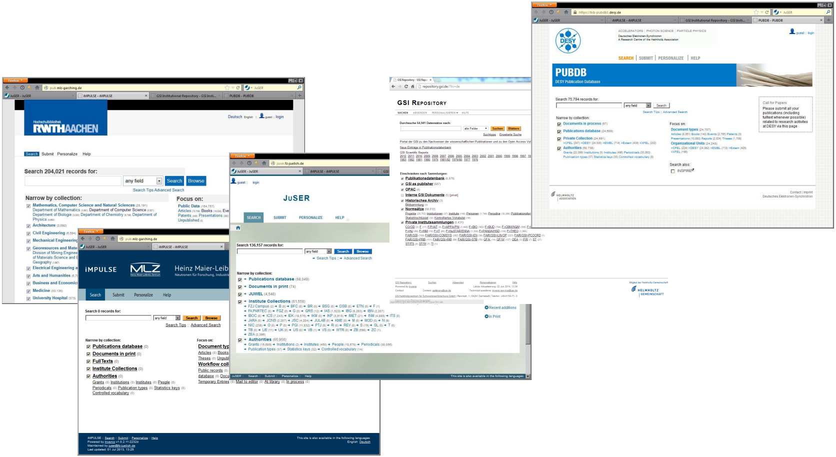
- Get it up and running (First Light: 11/19/2012)

Accomplishments and status



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  - Author identification (ORCiD ready!)
  - Output formats (JSON, BibTEX, EndNote... or special formats for our partners)
  - Reporting (publication statistics)
  - Delivery to content management systems

Statistics tool

Analyzing collection "VDB" for WEB year 2013

27216 records in collection "VDB"
2527 records relevant for "WEB 2013"

771	records	JCR listed	(JCR)	EndNote BibTeX RIS
6	records	WOS and not JCR	(WOSnonJCR)	EndNote BibTeX RIS
777	records	Web of Science	(WOS)	EndNote BibTeX
777	records	WOS listed journal OR entry	(WOS	
48	records	Other refereed	(Other	
40	records	Refereed NOT in WoS	(Other	
1017	records	All refereed	(Ref_a	
800	records	Pubmed listed	(Medli	
800	records	Scopus listed	(Scopu	
112	records	DOAJ listed	(DOA	
2	of type	Diploma Thesis		
56	of type	Dissertation / PhD Thesis		
1	of type	Habil / Postdoctoral Thesis (Non-gen		
711	of type	Internal Report		
1103	of type	Journal Article		
2	of type	Lecture		
14	of type	Master Thesis		
8	of type	Bachelor Thesis		
213	of type	Poster		

Per program and statistics key

	JCR listed		WOS and not JCR		Web of Science		WOS listed journal OR entry		Other refereed		Refereed NOT in WoS		All refereed		Pubmed listed		Scopus listed		DOAJ listed	
110 - Erneuerbare Energien (POF II: 2010 - 2014)	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS
120 - Rationelle Energieumwandlung und -nutzung (POF II: 2010 - 2014)	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS
130 - Kernfusion (POF II: 2010 - 2014)	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS
140 - Nukleare Sicherheitsforschung (POF II: 2010 - 2014)	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS
150 - Technologie, Innovation und Gesellschaft (POF II: 2010 - 2014)	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS
210 - Geosystem: Erde im Wandel (POF II: 2009 - 2013)	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS
220 - Marine, Kstn und Polare Systeme (POF II: 2009 - 2013)	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS
230 - Atmosphre und Klima (POF II: 2009 - 2013)	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS
240 - Terrestrische Umwelt (POF II: 2009 - 2013)	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS
260 - Technologie, Innovation und Gesellschaft (POF II: 2010 - 2014)	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS
310 - Krebsforschung (POF II: 2009 - 2013)	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS
320 - Herz-Kreislauf- und Stoffwelchselerkrankungen (POF II: 2009 - 2013)	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS
330 - Funktion und Dysfunktion des Nervensystems (POF II: 2009 - 2013)	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS
340 - Infektion und Immunitt (POF II: 2009 - 2013)	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS
350 - Umweltbedingte Strungen der Gesundheit (POF II: 2009 - 2013)	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS
360 - Systematische Analyse von multifaktoriellen Erkrankungen (POF II: 2009 - 2013)	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS
410 - Supercomputing (POF II: 2010 - 2014)	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS
420 - Grundlagen zuknftiger Informationstechnologien (POF II: 2010 - 2014)	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS
430 - NANOMIKRO (POF II: 2010 - 2014)	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS
440 - Funktionale Werkstoffsysteme (POF II: 2010 - 2014)	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS
450 - BioSoft (POF II: 2010 - 2014)	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS
460 - BioGrenzflchen (POF II: 2010 - 2014)	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS
470 - Technologie, Innovation und Gesellschaft (POF II: 2010 - 2014)	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS	0	EndNote BibTeX RIS
510 - Elementarteilchenphysik (POF II: 2010 - 2014)	285	EndNote BibTeX RIS	0	EndNote BibTeX RIS	285	EndNote BibTeX RIS	285	EndNote BibTeX RIS	4	EndNote BibTeX RIS	4	EndNote BibTeX RIS	341	EndNote BibTeX RIS	293	EndNote BibTeX RIS	293	EndNote BibTeX RIS	49	EndNote BibTeX RIS

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- Upgrade to 1.1.x:
  - get OAI-Server fixed, no hanging bibsched, etc.
  - testing and bugfixing on our test systems
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Lessons learned / Next steps

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- Never use Dublin Core again (complex migration, to few data fields. . .)
- All libraries are the same ☺

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However. . .

In our use case switching of the base system is non-trivial

(Remember: 10+ instances. . .)

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- Open up for new partners
- Clean up our code and give it back → moving to github

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Further "reading"

- Invenio @ HGF - Technical background

  Talk at Invenio Developer Forum

- Collaborative tools for an institutional repository

  Talk at Helmholtz OA Workshop

- JuSER – Publications Database

  Introductory course at Jülich

- JuSER - Autorenhandling

  Talk at HGF-ORCiD Meeting, Berlin (in german)

- Invenio @HGF – status and perspectives

  Talk at 2nd Invenio User Group Workshop, [sic!], Jülich, Germany

- The Helmholtz INVENIO Repository Project

  Talk at SACITiL-2014, Kolkata, India

Thanks!

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