

JACoW — Metadata

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Metadata

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Problems

Limitations

Web 2.0

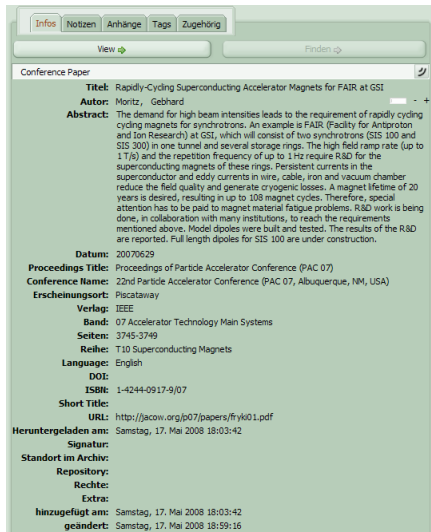
Goal

JACoW Improvements for Dissemination of Metadata

Volker RW Schaa

GSI, Darmstadt
JACoW Chairman

HEP Information
Resource Summit,
Hamburg, 20 May 08



The screenshot shows a web interface for a metadata record. At the top, there are navigation tabs: 'Infos' (highlighted), 'Notizen', 'Anhänge', 'Tags', and 'Zugehörig'. Below the tabs are search fields: 'View' with a right arrow and 'Finden' with a magnifying glass. The main content area displays the following metadata:

Conference Paper

Title: Rapidly-Cycling Superconducting Accelerator Magnets for FAIR at GSI

Autor: Moritz, Gebhard

Abstract: The demand for high beam intensities leads to the requirement of rapidly cycling magnets for synchrotrons. An example is FAIR (Facility for Antiproton and Ion Research) at GSI, which will consist of two synchrotrons (SIS 100 and SIS 300) in one tunnel and several storage rings. The high field ramp rate (up to 1 T/s) and the repetition frequency of up to 1 Hz require R&D for the superconducting magnets of these rings. Persistent currents in the superconductor and eddy currents in wire, cable, iron and vacuum chamber reduce the field quality and generate cryogenic losses. A magnet lifetime of 20 years is desired, resulting in up to 108 magnet cycles. Therefore, special attention has to be paid to magnet material fatigue problems. R&D work is being done, in collaboration with many institutions, to reach the requirements mentioned above. Model dipoles were built and tested. The results of the R&D are reported. Full length dipoles for SIS 100 are under construction.

Datum: 20070629

Proceedings Title: Proceedings of Particle Accelerator Conference (PAC 07)

Conference Name: 22nd Particle Accelerator Conference (PAC 07, Albuquerque, NM, USA)

Erscheinungsort: Piscataway

Verlag: IEEE

Band: 07 Accelerator Technology Main Systems

Seiten: 3745-3749

Reihe: T10 Superconducting Magnets

Language: English

DOI:

ISBN: 1-4244-0917-9/07

Short Title:

URL: <http://jacow.org/p07/papers/fr/yk01.pdf>

Heruntergeladen am: Samstag, 17. Mai 2008 18:03:42

Signatur:

Standort im Archiv:

Repository:

Rechte:

Extra:

hinzugefügt am: Samstag, 17. Mai 2008 18:03:42

geändert: Samstag, 17. Mai 2008 18:59:16

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Date: 29 June 2007 y.m.d

Proceedings Title: Proceedings of Particle Accelerator Conference (PAC 07)

Conference Name: Particle Accelerator Conference (PAC 07)

Current Issues

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Problems in JACoW

- support of OA and SPIRES format (only 6 conferences out of 23 in the last 4 years)
- no coverage in INSPEC (anymore) for PAC/EPAC
- no DOI on JACoW (time and fees)
- limitation of 'standard' formats OA, SPIRES, DC, ...

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Metadata, JACoW can provide

- title
- abstract
- author with affiliation
- co-author(s) with affiliation
- keywords
- unique article identification
- (conference, paper, slide) URL
- publication date
- volume, issue, page (first, last)
- additional material (slides, video, audio recordings)
- *ISBN, publisher, copyright, . . .*
- citations from conference papers (*still under development*)

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Limited Coverage

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Using BiB_TE_X

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SPIRES

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AFFILIATION = GSI, Germany;
TITLE = Rapidly-Cycling Superconducting Accelerator Magnets for FAIR at GSI;
DATE = June 2007;
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DublinCore XML Schema/HTML

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- Capture of citation information from web pages
- Flexible notetaking with autosave
- Storage of PDFs, files, images, links, and web pages
- Formatted citation export

Formats Used

- COinS (ContextObjects in Spans)
- DC XML (Dublin Core XHTML/XML)
- Embedded RDF (Resource Description Format)

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These are some of the standards and microformats Zotero looks for on or near a web page. This list will grow, so please check back.

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- [Aleph](#)
- [Dymx](#)
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- [DRA](#)
- [GEAC](#)
- [TLC/YouSeeMore](#)

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Usin

High Energy Physics - Experiment authors/titles Dec. 2007 - Mozilla Firefox

Suche:

Subjects: High Energy Physics - Experiment (hep-ex)

[6] [arXiv:0712.0544 \[ps, pdf, other\]](#)

Wigner-Cusp in Kaon Decays and Determination of $\pi\pi$ Scattering Lengths

Rainer Wanke

Comments: 10 pages, glenary talk at MENU 2007, FZ Juelich, Sep 2007

Subjects: High Energy Physics - Experiment (hep-ex)

[7] [arXiv:0712.0598 \[ps, pdf, other\]](#)

A combined search for the standard model Higgs boson at $\sqrt{s}=1.96$ TeV

D0 Collaboration: V. M. Abazov, et al

Comments: Submitted to Physics Letters B

Subjects: High Energy Physics - Experiment (hep-ex)

[8] [arXiv:0712.0599 \[ps, pdf, other\]](#)

Search for ZZ and $Z\gamma$ production in $p\bar{p}$ collisions at $\sqrt{s}=1.96$ TeV and limits on anomalous ZZZ and $ZZ\gamma$ couplings

D0 Collaboration, V. Abazov, et al

Comments: submitted to Phys. Rev. Lett

Subjects: High Energy Physics - Experiment (hep-ex)

Info Notizen Anhänge Tags Zugehang

View Snapshot Finden

Zuschriftenanhang

Title: A combined search for the standard model Higgs boson at $\sqrt{s}=1.96$ TeV

Author: Abazov, D0 Collaboration: V. M

Publikation: We present new results of the search for WH to lepton neutrino b production in pbar collisions at a center of ma... 0712.0598

Band:

Angabe:

Seite:

Datum: 2007-12-04 y m d

Reihe:

Titel der Reihe:

Reihe Text:

Journal Abkz:

Language:

DOI:

ISSN:

Short Title:

URL: <http://arxiv.org/abs/0712.0598>

Heruntergeladen am: Montag, 19. Mai 2008 12:30:34

Signatur:

Standort im Archiv: arXiv.org

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Extra:

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Date:
Proceedings Title:
Conference Name:

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High Energy Physics - Experiment authors/titles Dec. 2007 - Mozilla Firefox

SPIRES

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FIND T "RAPIDLY CYCLING SUPERCONDUCTING ACCELE" Paper 1 to 1 of 1

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Rapidly Cycling Superconducting Accelerator Magnets for FAIR at GSI.
G. Moritz (Darmstadt, GSI) . PAC07-FRYKI01, Jun 2007.
In the Proceedings of Particle Accelerator Conference (PAC 07), Albuquerque, New Mexico, 25-29 Jun 2007, pp 3745.

[LaTeX\(US\)](#) | [LaTeX\(EU\)](#) | [Harvmac](#) | [BibTeX](#)
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[Conference Info](#)
[Bookmarkable link to this information](#)

Sammlung: Meine Bibliothek

Titel	Erste...	1
Recent Developments for the ...	Stassen	
Rapidly-Cycling Superconduct...	Moritz	
Rapidly-Cycling Superconduct...	Moritz	
Fachverteibuch Elektrotechnik...	Schw...	

Infos Notizen Anhänge Tags Zugehörig

Conference Paper

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Author: Moritz, G.

Abstract:

Date:

Proceedings Title:

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Erscheinungsort:

Verlag:

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Reihe:

Language:

DOI:

ISBN:

Short Title:

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Date:
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High Energy Physics - Experiment authors/Titles Dec. 2007 - Mozilla Firefox

FRYKI — MAG: Magnets (29-Jun-07 11:00—12:30)

Chair: A. D. McInturff, LBNL, Berkeley, California

Paper	Title	Page
FRYKI01	Rapidly-Cycling Superconducting Accelerator Magnets for FAIR at GSI	3745

- **G. Moritz**
GSI, Darmstadt

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[Slides](#)

Sucher:

Sammelungen

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- Recent Developments for the ... Stassen 1
- Fachvorlesbuch Elektrotechnik... Schw...
- Rapidly-Cycling Superconduct... Moritz
- Rapidly-Cycling Superconduct... Moritz

Info Notizen Anhänge Tags Zugehörig

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Short Title:

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View

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URL: <http://jacow.org/p07/papers/fr/yki01.pdf>

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Problems

Limitations

Web 2.0

Goal

Conference Paper
Titel:
Autor:
Abstract:

Datum:
Proceedings Title:
Conference Name:

Usin

Titel: **Rapidly-Cycling Superconducting Accelerator Magnets for FAIR at GSI**

Type Conference Paper
Autor Gebhard Moritz

Abstract The demand for high beam intensities leads to the requirement of rapidly cycling magnets for synchrotrons. An example is FAIR (Facility for Antiproton and Ion Research) at GSI, which will consist of two synchrotrons (SIS 100 and SIS 300) in one tunnel and several storage rings. The high field ramp rate (up to 1 T/s) and the repetition frequency of up to 1 Hz require R&D for the superconducting magnets of these rings. Persistent currents in the superconductor and eddy currents in wire, cable, iron and vacuum chamber reduce the field quality and generate cryogenic losses. A magnet lifetime of 20 years is desired, resulting in up to 108 magnet cycles. Therefore, special attention has to be paid to magnet material fatigue problems. R&D work is being done, in collaboration with many institutions, to reach the requirements mentioned above. Model dipoles were built and tested. The results of the R&D are reported. Full length dipoles for SIS 100 are under construction.

Datum 20070629
Proceedings Title Proceedings of Particle Accelerator Conference (PAC 07)
Conference Name 22nd Particle Accelerator Conference (PAC 07, Albuquerque, NM, USA)
Erscheinungsort Piscataway
Verlag IEEE
Band 07 Accelerator Technology Main Systems
Seiten 3745-3749
Reihe T10 Superconducting Magnets
Language English
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URL <http://jacow.org/p07/papers/frvkio1.pdf>

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Rapidly-Cycling Superconduct...	Moritz		
Rapidly-Cycling Superconduct...	Moritz		

Infos Notizen Anhänge Tags Zugehörig

View

Conference Paper

Titel: Rapidly-Cycling Superconducting Accelerator Magnets
Autor: Moritz, Gebhard
Abstract: The demand for high beam intensities leads to the requirement of rapidly cycling magnets for synchrotrons. An example is FAIR (Facility for Antiproton and Ion Research) at GSI, which will consist of two synchrotrons (SIS 100 and SIS 300) in one tunnel and several storage rings. The high field ramp rate (up to 1 T/s) and the repetition frequency of up to 1 Hz require R&D for the superconducting magnets of these rings. Persistent currents in the superconductor and eddy currents in wire, cable, iron and vacuum chamber reduce the field quality and generate cryogenic losses. A magnet lifetime of 20 years is desired, resulting in up to 108 magnet cycles. Therefore, special attention has to be paid to magnet material fatigue problems. R&D work is being done, in collaboration with many institutions, to reach the requirements mentioned above. Model dipoles were built and tested. The results of the R&D are reported. Full length dipoles for SIS 100 are under construction.

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Conference Paper

Title: Rapidly-Cycling Superconducting Accelerator Magnets for FAIR at GSI

Author: Moritz, Gebhard

Abstract: The demand for high beam intensities leads to the requirement of rapidly cycling magnets for synchrotrons. An example is FAIR (Facility for Antiproton and Ion Research) at GSI, which will consist of two synchrotrons (SES 300 and SES 300) in one tunnel and several storage rings. The high field ramp rate (up to 1.7/s) and the repetition frequency of up to 1 Hz require R&D for the superconducting magnets of these rings. Persistent currents in the superconductor and eddy currents in wire, cable, iron and vacuum chamber reduce the field quality and generate cryogenic losses. A magnet lifetime of 20 years is desired, resulting in up to 300 magnet cycles. Therefore, special attention has to be paid to magnet material fatigue problems. R&D work is being done, in collaboration with many institutions, to reach the requirements mentioned above. Model dipoles were built and tested. The results of the R&D are reported. Full length dipoles for SES 300 are under construction.

Date: 29 June 2007 y.m.d

Proceedings Title: Proceedings of Particle Accelerator Conference (PAC 07)

Conference Name: Particle Accelerator Conference (PAC 07)

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Improvements for Dissemination of Metadata for JACoW

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- use a format which covers all (or as many as possible) mentioned data fields
- provide complete coverage for all conference with agreed upon metadata formats
- and do it as soon as possible