Introduction to digital libraries

Annette Holtkamp CERN

ASP 2012 Kumasi, Ghana, Aug 3, 2012 "Is the eBook the end of the library?"

"Technological Change, Universal

Access and the End of the Library"

• • •

Do we still need libraries in the Google era?

What is a library?

Oxford Reference Online:

A building or room containing collections of books, periodicals, and sometimes films and recorded music for use or borrowing by the public or the members of

an institution



But it is much more!

Not only a physical space housing books

- public workspace
- Information
- services

• ...



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... and cultural events!



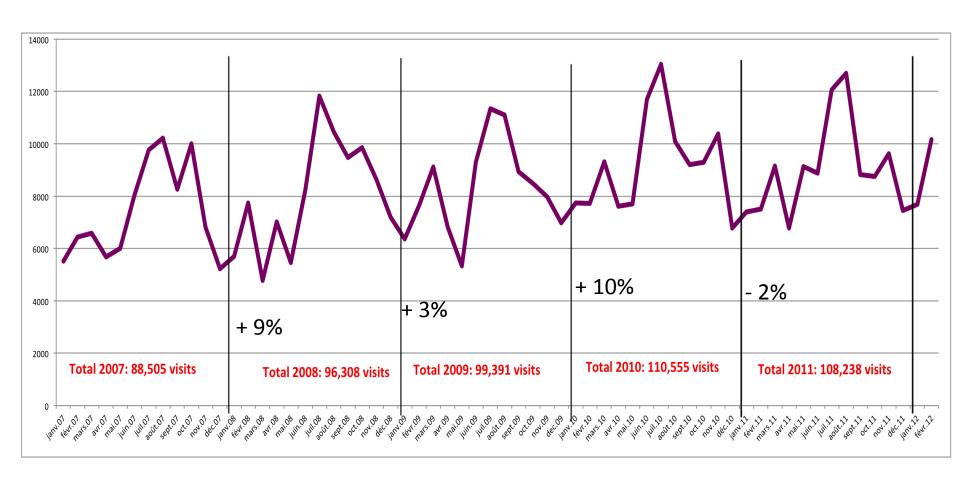
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STRANGELS Cie Gilles Jobin. Site specific choreographic intervention inside the CERN's library. Three strangels on a migration to another dimension rest at the CERN's library.

Visits to CERN library (2007-11: +25%)



Libraries in the digital era

Libraries have since long embraced the digital age:

- E-books
- E-journals
- E-prints
- Multimedia
- Online information retrieval



Digital library

Wikipedia:

a library in which collections are stored in digital formats (as opposed to print, microform, or other media) and accessible by computers. The digital content may be stored locally, or accessed remotely via computer networks. A digital library is a type of information retrieval system.

Digital library vs web

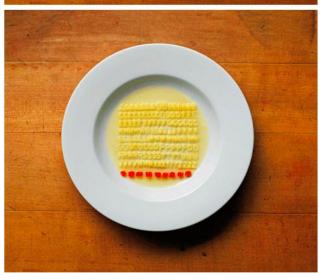
Web:

- grows organically
- low archival and management characteristics

Library:

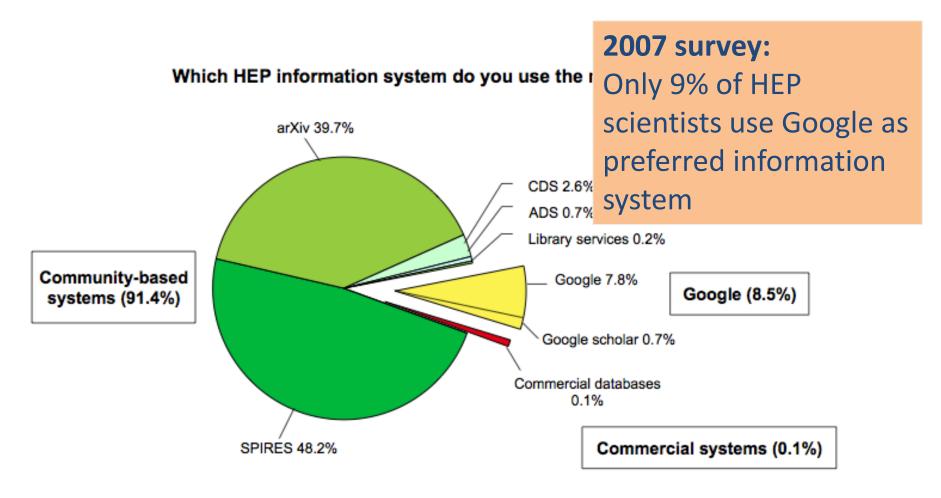
- controlled input
- targeted customers
- "the right information to the right user at the right time"





Urs Wehrli: Die Kunst aufzuräumen

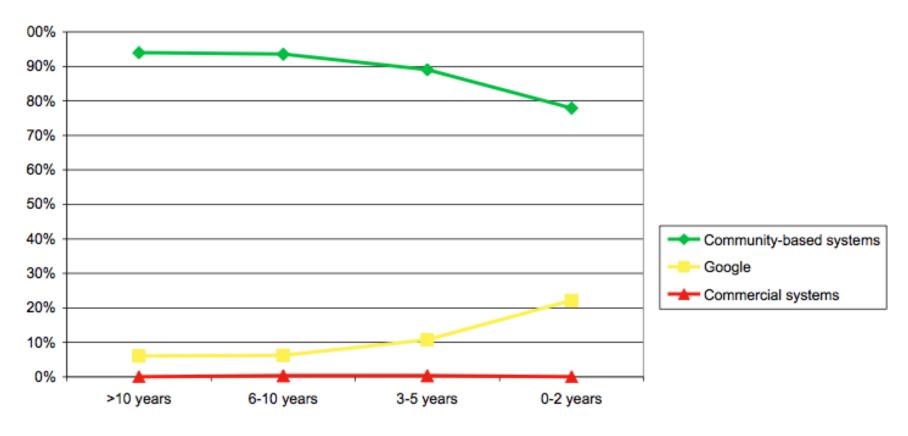
Where do HEP scientists search for information?



arxiv:0804.2701v2, Gentil-Beccot et al.

Age dependent information strategies

Which HEP information system do you use the most?



of usage of HEP information systems

Library catalogues in search engines

thesis leonid rivkin damping ring for the slac linear collider

Ungefähr 73 Ergebnisse (0.62 Sekunden)

Damping Ring for the SLAC Linear Collider

adsabs.harvard.edu/.../1986PhDT.......48... - Diese Seite übersetzen von LZ Rivkin - 1986 - Zitiert durch: 4 - Ähnliche Artikel Damping Ring for the SLAC Linear Collider. Authors: Rivkin, Leonid Zinovy. Affiliation: AA(CALIFORNIA INSTITUTE OF TECHNOLOGY.) Publication: Thesis (PH ...

DAMPING RING FOR THE SLAC LINEAR COLLIDER - INSPIRE-H...

inspirehep.net/record/226991 - Diese Seite übersetzen

1 Jan 1986 - Damping Ring For The Slac Linear Collider. Leonid Zinovy Rivkin (Caltech). 1986 130 pp. CALT-68-1324. Note: Ph.D. Thesis Keyword(s): ...

Damping ring for the SLAC linear collider - SLAC Research Library ...

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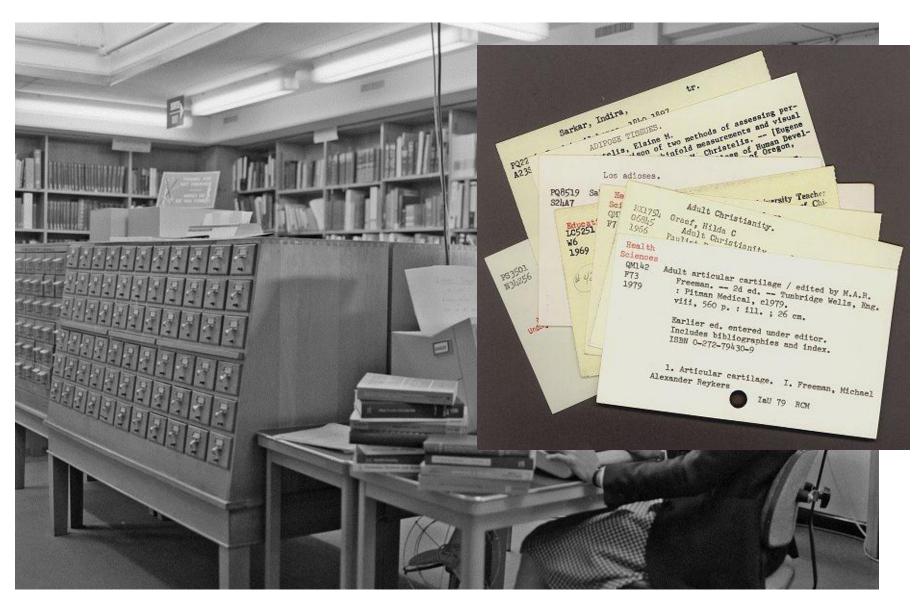
Title: **Damping ring** for the **SLAC linear collider**: **Thesis** in partial fullfillment of the requirements for the degree of doctor of. Author(s): **Leonid** Zinovy **Rivkin**.

Libraries still fulfill their traditional roles of

- acquisition
- filtering of information
- organization of knowledge
- preservation

but often in a radically different form

Library catalogue: then...



...and now



CERN Archives (30,026) Pauli Archives (3,808) DSU Archives (713)

Archives (34,547)

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Book record



Avasthi, Devesh Kumar; Mehta, Girijesh Kumar

Heidelberg: Springer, 2011. - 280 p.

(Springer series in materials science; 145) Series

620.22 ; 537.534 Subject code

Engineering Subject category

9789400712287 (This book at Amazon) (print version, hardback) ISBN

9789400712294 (This book at Amazon) (electronic version)

Google

ebook: 10.1007/978-94-007-1229-4

This book on Google Books

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- access from everywhere
- multitude of devices
 - phones, tablets, readers
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 - search engines
- organize own bibliographies
 - Mendeley...

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1. Wilson loops in (p+1)-dimensional Yang-Mills theories using gravity/gauge theory correspondence.			

Somdeb Chakraborty, Shibaji Roy (Saha Inst.). Mar 2011. 16 pp.

Published in Nucl.Phys. B850 (2011) 463-476

e-Print: arXiv:1103.1248 [hep-th]

References | BibTeX | LaTeX(US) | LaTeX(EU) | Harvmac | EndNote

Abstract and Postscript and PDF from arXiv.org

Snippets courtesy of arXiv

- ... 6, 7, 8]. In strongly coupled gauge theories of interacting **quark-gluon plasma** Wilson loops can be related to various measurable quantities in...
- ... to the static quark-antiquark potential [9] in a moving quark-gluon plasma On the other hand the expectation value of a particular...
- ... a dipole moving with an arbitrary velocity through the hot quark-gluon plasma including the screening length 11 12 13 14 as well...
- ... v . In this frame the dipole is static and the quark-gluon plasma is moving with velocity v in the negative xp direction...
- ... and can be related to the observables of quark-gluon plasma obtained in heavy ion experiments We have considered...

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Proof. We have just shown that Ψ gives a bijection between \mathbb{RP}^2/S_3 and \mathcal{M} , and we can give \mathcal{M} a topology which makes Ψ a harmonic arXiv:0906.4558

homeomorphism between $ar{\mathcal{S}}_m/\sim ext{and } \mathbb{R}$ High Energy Physics - Theory

Gravitational instantons, self-duality and geometric flows

F. Bourliot, J. Estes, P.M. Petropoulos, Ph. Spindel

(Submitted on 25 Jun 2009)

We discuss four-dimensional "spatially homogeneous" gravitational instantons. These are self-dual solutions of Euclidean vacuum E with potentially non-vanishing cosmological constant. They are endowed with a product structure R \times M_3 leading to a natural fudimensional subspaces evolving in Euclidean time. For a large class of three-dimensional subspaces, the dynamics coincides with the three-dimensional homogeneous slice, driven by the Ricci tensor plus an so(3) gauge connection. The metric on the three-dimensional to the vielbein of the three-dimensional subspace, while the gauge field is inherited from the anti-self-dual component of the flevi--Givita connection.

Comments: 14 pages

Subjects: High Energy Physics - Theory (hep-th)

Report number: CPHT-RR038.0409

Cite as: arXiv:0906.4558v1 [hep-th]

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From: John Estes [view email]

[v1] Thu, 25 Jun 2009 18:09:11 GMT (18kb)

Which authors of this paper are endorsers?

Link back to: arXiv, form interface, contact.

[1] P. Baird and L. Danielo. Three-dimension Math. 608 (2007), 65–91.

[2] F. Bourliot, J. Estes, P. M. Petropoulos geometric flows. Preprint at arXiv:0906.4

[3] A. L. Besse. Einstein manifolds. Ergebn Mathematics and Related Areas (3)], 10.

[4] X. Cao, J. Guckenheimer, and L. Saloff-C flows on SL(2,R). Preprint at arXiv:0906.

[5] X. Cao, Y. Ni, and L. Saloff-Coste. Cro Pacific J. Math. 236 (2008), no. 2, 263–28

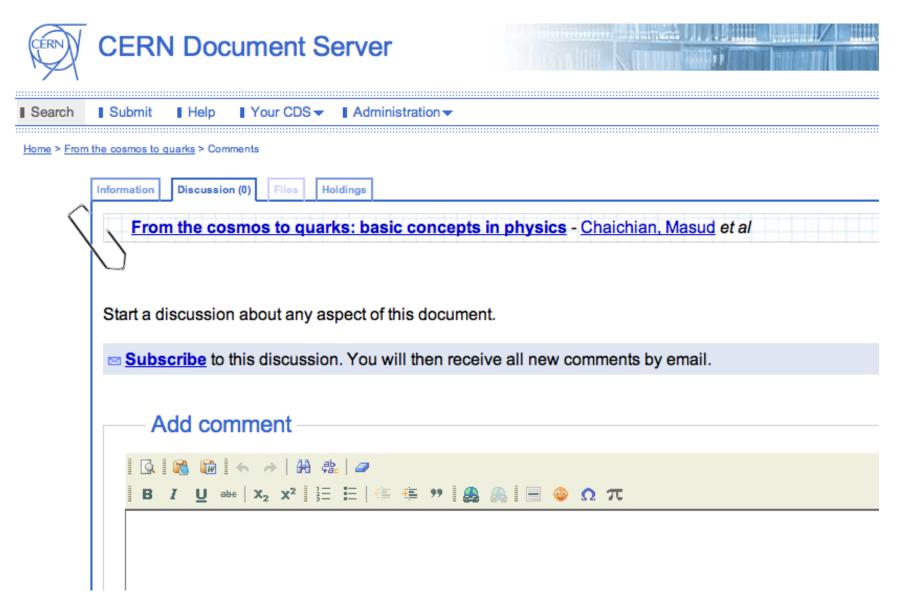
[6] X. Cao and L. Saloff-Coste. Cross curvatu at arXiv:0805.3380v1 [math.DG].

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Multiple imputation in quantile regression

Ying Wei

Yanyuan Ma

Raymond J. Carroll

+ Author Affiliations

Received June 2010. Revision received December 2011. Biometrika (2012) doi: 10.1093/biomet/ass007 First published online: March 20,

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Abstract

We propose a multiple imputation estimator for parameter estimation in a quantile regression model when some covariates are missing at random. The estimation procedure fully utilizes the entire dataset to achieve increased efficiency, and the resulting coefficient estimators are root–n consistent and asymptotically normal. To protect against possible model misspecification, we further propose a shrinkage estimator, which automatically adjusts for possible bias. The finite sample performance of our estimator is investigated in a simulation study. Finally, we apply our methodology to part of the Eating at American's Table Study data, investigating the association between two measures of dietary intake.

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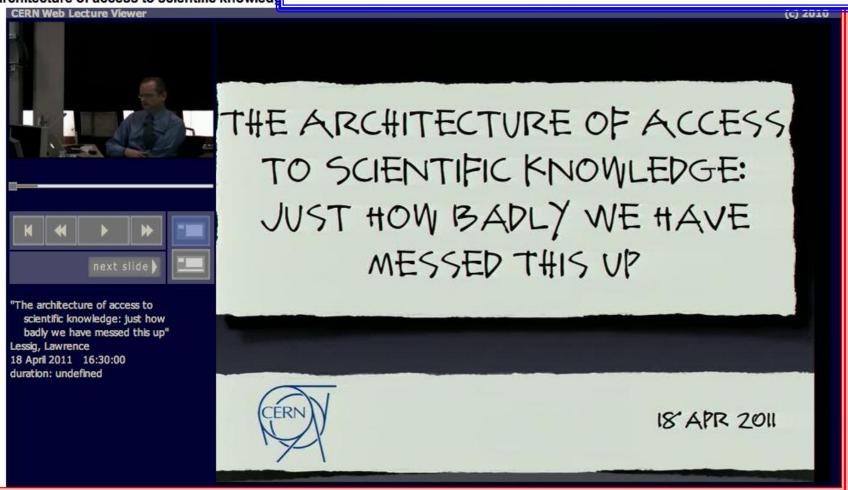
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 can offer access to a wider range of journals, books and other material to their users

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- Journalists and interested citizens (e.g. patient associations) gain easy access to research results
- Citizen science:
 - Scientific research conducted by nonprofessionals

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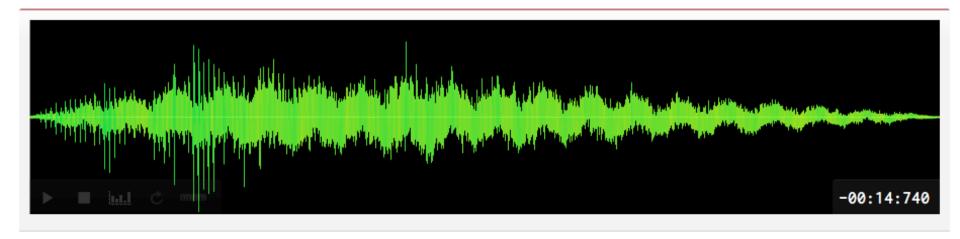
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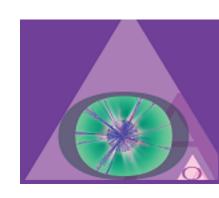
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What's allowed?

- Many journals endorse self-archiving by authors of preprint and/or postprint versions
- Preprint:
 - Article draft before peer review
- Postprint:
 - Article draft after peer review
- SHERPA RoMEO:
 - Index of publisher policies



Journal: African Development Review (ISSN: 1017-6772)

Publisher: Biackwell Publishing Ltd.

These summaries are for the publishers default policies and changes or exceptions can often be negotiated by authors. All information is correct to the best of our knowledge but should not be relied upon for legal advice.

Publisher:	Blackwell Publishing
Pre-prints	author can archive pre-print (ie pre-refereeing)
Post-print:	subject to Restrictions below, author can archive post-print (ie final draft post-refereeing)
Restrictions:	 Some journals impose embargoes typically of 6 or 12 months, occasionally of 24 months no listing of affected journals available as yet
Conditions:	 Publisher version cannot be used On author or institutional or subject-based server Server must be non-commercial Publisher copyright and source must be acknowledged with set statement ("The definitive version is available at www.blackwell-synergy.com") Articles in some journals can be made Open Access on payment of additional charge See Wiley-Blackwell entry for articles after February 2007

http://www.sherpa.ac.uk/romeo/

Subject repositories

organized around a specific field or discipline

- Broadband
 - Nature Precedings http://precedings.nature.com/
- Physics/Mathematics/Computer science...
 - arXiv http://arxiv.org
- Astronomy/Physics
 - Astrophysics Data System (ADS) http://adswww.harvard.edu/
- High energy physics
 - INSPIRE https://inspirehep.net



arXiv.org

Search or Article-id

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Subject search and browse: Physics Search Form Interface

24 Apr 2012: New arXiv Membership Model

29 Mar 2012: New "culturomics" arXiv analysis tool available

See cumulative "What's New" pages. Read robots beware before attempting any automated download

Physics

- Astrophysics (astro-ph new, recent, find) includes: Cosmology and Extragalactic Astrophysics; Earth and Planetary Astrophysics; Galaxy Astrophysics; High Energy Astrophysical Phenomena; Instrumentation and Methods for Astrophysics; Solar and Stellar Astrophysics
- Condensed Matter (cond-mat new, recent, find) includes: Disordered Systems and Neural Networks; Materials Science; Mesoscale and Nanoscale Physics; Other Condensed Matter; Quantum Gases; Soft Condensed Matter; Statistical Mechanics; Strongly Correlated Electrons; Superconductivity
- General Relativity and Quantum Cosmology (gr-qc new, recent, find)
- High Energy Physics Experiment (hep-ex new, recent, find)
- High Energy Physics Lattice (hep-lat new, recent, find)
- High Energy Physics Phenomenology (hep-ph new, recent, find)
- High Energy Physics Theory (hep-th new, recent, find)
- · Mathematical Physics (math-ph new, recent, find)
- Nuclear Experiment (nucl-ex new, recent, find)
- Nuclear Theory (nucl-th new, recent, find)
- Physics (physics new, recent, find)
 - includes: Accelerator Physics; Atmospheric and Oceanic Physics; Atomic Physics; Atomic and Molecular Clusters; Biological Physics; Chemical Physics; Classical Physics; Computational Physics; Data Analysis, Statistics and Probability; Fluid Dynamics; General Physics; Geophysics; History and Philosophy of Physics; Instrumentation and Detectors; Medical Physics; Optics; Physics Education; Physics and Society; Plasma Physics; Popular Physics: Space Physics
- · Quantum Physics (quant-ph new, recent, find)

Mathematics



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HEP Search

High-Energy Physics Literature Database

Use "find " for SPIRES-style search (other tips)



HEP

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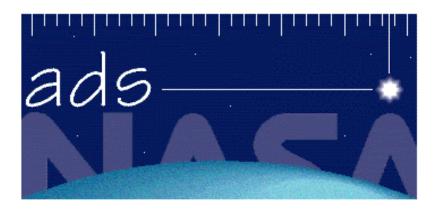
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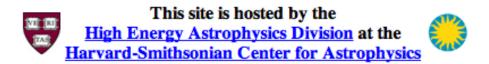
2012-04-26 Good bye SPIRES! INSPIRE is now replacing SPIRES after SPIRES frontend shutoff. Read more on our blog: http://t.co/vheWS3US 2012-04-17 Citation curation moved



The SAO/NASA Astrophysics Data System

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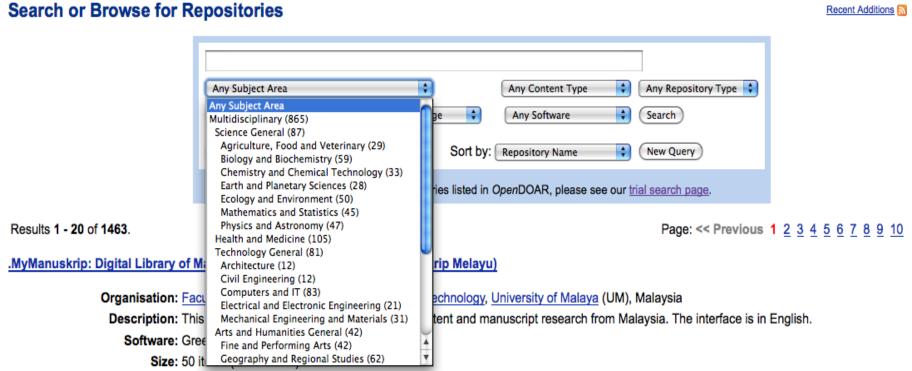
Welcome to the Digital Library for Physics and Astronomy



The SAO/NASA Astrophysics Data System (ADS) is a Digital Library portal for researchers in Astronomy and Physics, operated by the Smithsonian Astrophysical Observatory (SAO) under a NASA grant. The ADS maintains three bibliographic databases containing more than 9.6 million records: Astronomy and Astrophysics, Physics, and arXiv e-prints. The main body of data in the ADS consists of bibliographic records, which are searchable through https://doi.org/10.1007/jib/nastrophysics/, Physics, and arXiv e-prints. The main body of data in the ADS consists of bibliographic records, which are searchable through https://distribution.org/, and full-text scans of much of the astronomical literature which can be browsed or searched via our full-text search interface. Integrated in its databases, the ADS provides access and pointers to a wealth of external resources, including electronic articles, data catalogs and archives. We currently have links to over 9.1 million records maintained by our collaborators.

Directory of Open Access Repositories





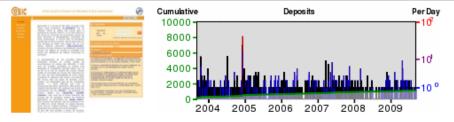
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@RCHIVESIC (1088 records)



Running **HAL**, based in **France** and is registered as **Research Cross**Registered on 2002-05-17

Cumulative deposits: 1088 total [table] [graph]

Daily deposits in last year: 87 days of 1-9, 0 days of 10-99, 0 days of 1

[interactive graph (requires SVG format support)]

OAI Interface: Identify List Metadata Formats List Sets [harvest status]

AANRO Australian Agriculture and Natural Resource Online



OAI interface not registered

Running **Other softwares (various)**, based in **Australia** and is registe **Institutional**

Registered on 2009-09-09 No successful harvest yet.

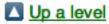
Aberdeen University Research Archive: AURA (242 records)

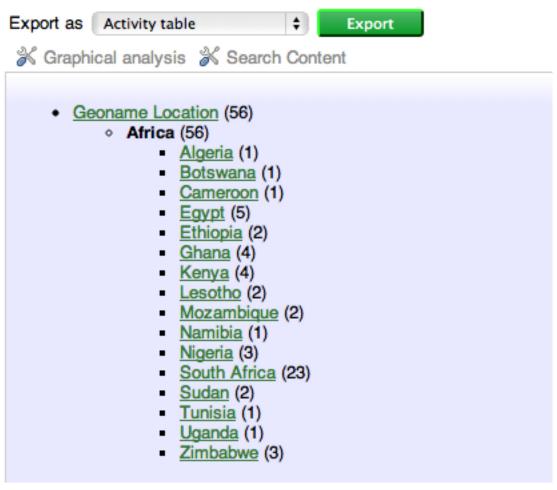


Running <u>DSpace</u>, based in **United Kingdom** and is registered as **Re**:

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knustspace

Organisation: Kwame Nkrumah University of Science and Technology (KNUST), Ghana

Description: This site provides access to the research output of the institution. Many items are not available as full-text. The interface is in English. The site may be slow

in downloading selected items.

OAI-PMH: http://dspace.knust.edu.gh:8080/oai/request

Software: DSpace

Size: 4008 items (2012-06-21)

Subjects: Multidisciplinary

Content: Articles; References; Conferences; Theses

Languages: English

Policies: Metadata re-use policy explicitly undefined; Full data item policies explicitly undefined; Content policies explicitly undefined;

Submission policies explicitly undefined; Preservation policies explicitly undefined

OpenDOAR ID: 1649, Suggest an update for this record, Missing data is needed for: Policies

Link to this record: http://opendoar.org/id/1649/

UGSpace (University of Ghana Digital Collection)

Organisation: University of Ghana, Ghana

Description: This site provides access to the collections of the institution. Users may set up RSS and Atom feeds to be alerted to new content. Collection includes works

from the colonial era (1470-1958), including Dutch publications, Folio and Furley collections.

Software: DSpace

Size: 1216 items (2012-06-21) Subjects: History and Archaeology

Content: Books; Special Languages: English; Dutch

Policies: Metadata re-use policy explicitly undefined; Full data item policies explicitly undefined; Content policies explicitly undefined;

Submission policies explicitly undefined; Preservation policies explicitly undefined

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 - even your thesis
- Submit the article/postprint/preprint to your institutional repository
 - If you have one
 - Check out publisher's policy