



Repository Networking and Development in Germany

**Cordula Nötzelmann,
Bielefeld University Library**

**Initiative for the Establishment of an Italian National Network
of Institutional Repositories of Universities and Research
Institutions**

Padua, January 26, 2006



Overview

- Repository Development and Networking in Germany - A Survey of Activities and Initiatives
- Examples in practice: some Bielefeld activities
 - Bielefeld eScholarship Repository
 - Bielefeld Academic Search Engine BASE
- Outlook: Next Steps



The *Berlin Declaration to Open Access*



Free of charge rights of use for readers (& their institutions)
Every OA-publication will be stored in at least one digital repository in a complete version

HRK HRK

WR WR



MPG



FhG

DFG DFG



WGL



HGF



Survey: Activities and Initiatives in Germany I

- **DFG (Deutsche Forschungsgemeinschaft/ German Research Foundation)**

Feb. 2006: International workshop on Institutional Repositories (focus: metrics of publication impact)

<http://www.dfg.de>

- **HRK (Hochschulrektorenkonferenz / German Rectors' Conference)**

Feb. 2006: Event on University Strategies concerning Open Access and the Establishment of Repositories

<http://www.hrk.de>



Survey: Activities and Initiatives in Germany II

- **MPG (Max-Planck-Gesellschaft / Max Planck Society):**

eSciDoc-Project and Open Access

<http://www.escidoc-project.de/en/projekt.html>

- **Alliance of Research Institutions**

innovative funding strategies and research infrastructures in Germany

<http://www.mpg.de/pdf/misc/innovationAllianzEngl.pdf>



Survey: Activities and Initiatives in Germany III

- **DINI (Deutsche Initiative für Netzwerk-
informationen e.V.)**

DINI Certificate : technical standards for German institutional repositories

<http://www.dini.de/>

- Expert **initiative group** for future repository networking (establ. Aug. 2005): Bielefeld University, DINI, DFG et. al.



DFG: Recommending Open Access Through Approval Letter

In January 2006, the DFG statutory bodies agreed to recommend making research results openly accessible by a modified wording of the approval letters:

„The DFG **expects researchers to make their research results publicly available by publishing them digitally and in **open access**. Research results should therefore either be deposited in **subject-based or institutional repositories** or, in addition to conventional publications, be published in peer-reviewed and / or **highly renowned open access journals**.**

Please point out to the readers that your publication results from a DFG-funded research project.“



Retaining Non-exclusive Rights Via Publishing Houses

The DFG executive committee has also decided that researchers should also be obliged to retain their copyright.

Suggested wording:

„Scientists involved in DFG-funded projects should reserve themselves durable and irreversible non-exclusive rights in regard to the publishing houses in order to make their research results openly accessible via the internet. (...)“



Repository Networking: EU

- Role model: DARE (Digital Academic Repositories), NL
www.darenet.nl
- DRIVER (**D**igital **R**epository **I**nfrastructure **V**ision for **E**uropean **R**esearch), planned as a Research Infrastructure Testbed Project,
Bielefeld = Scientific-strategic coordinator

Resolution

Bielefeld University supports postulation for Open Access as stipulated in the "[Berlin Declaration](#)" (2003) and confirmed in "[Berlin 3 Open Access](#)" Recommendation (2005 in Southampton, UK)

The Rectorate strongly calls upon Bielefeld University's scientists to file a copy of their peer-reviewed and published articles ("Postprint" versions) on the university's e-Scholarship Repository as long as legal aspects do not contradict self-archiving. (--> ROMEIO list)

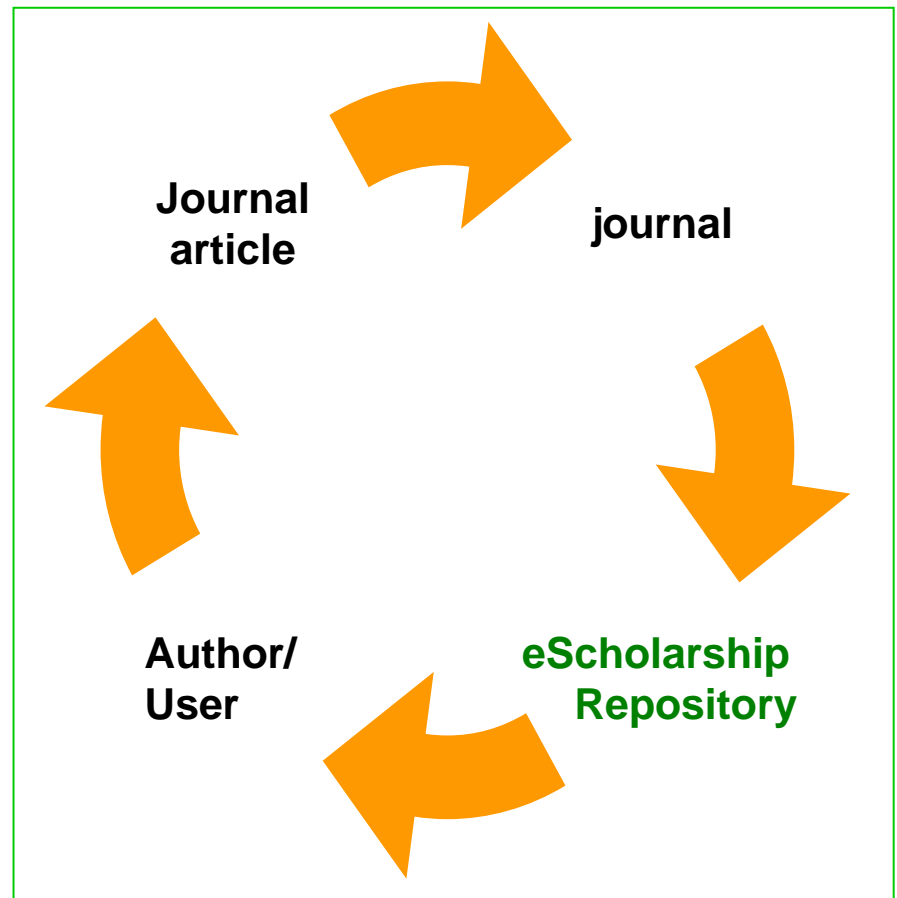
- .



Bielefeld eScholarship Repository

Following Bielefeld University's Resolution on Open Access (June 2005):

Establishment of an institutional repository for peer-reviewed post-print articles, based on OPUS software



Willkommen auf dem eScholarship Repository der Universität Bielefeld

Das eScholarship Repository stellt die Forschungsergebnisse der Universität Bielefeld der wissenschaftlichen Community weltweit zur Verfügung. Sie finden ausschließlich qualitätsgeprüfte Publikationen im Volltext, die als sogenannte "post-prints" bereits peer-review-Verfahren durchlaufen haben. Das neue Angebot ist eine konkrete Umsetzung der "Berliner Erklärung" und ermöglicht den ungehinderten Zugang auf das durch die Forschung der Universität Bielefeld erarbeitete wissenschaftliche Wissen. Das Repository ist Teil der Aktivitäten der Universität zur Neuausrichtung des wissenschaftlichen Publizierens und der im Juni 2005 veröffentlichten offiziellen "[Resolution zu Open Access](#)".



Das Bielefelder eScholarship Repository ist Bestandteil eines im Aufbau befindlichen internationalen Netzwerks institutioneller Repositorien und über wissenschaftliche Suchmaschinen und Datenbanken erschlossen.

Forschung an der Universität Bielefeld

- ▶ [Zentrum für interdisziplinäre Forschung \(ZiF\)](#)
- ▶ [Sonderforschungsbereiche](#)
- ▶ [Forschungsverbünde](#)
- ▶ [Forschergruppen](#)
- ▶ [Graduiertenkollegs](#)
- ▶ [Graduate Schools](#)

Schnell-Suche

Durchsuchen Sie gleichzeitig Titel, Schlagwort und Abstract (**nur ein Suchbegriff!**)

Suchen

Löschen

[Erweiterte Suche](#)

Top-Download

[Simple and flexible detection of contiguous repeats using a suffix tree](#) (Data processing, computer science a. systems)
Stoye, J. et al.

Wissenschaftliche Disziplinen

- ▶ [Computer science, information, and general works](#)
- ▶ [Philosophy and psychology](#)
- ▶ [Religion](#)
- ▶ [Social sciences](#)
- ▶ [Language](#)
- ▶ [Science](#)
- ▶ [Technology, medicine, applied sciences](#)
- ▶ [Arts and recreation](#)
- ▶ [Literature](#)
- ▶ [History and geography](#)

Services

[Downloadstatistik](#)
[Neueste Publikationen](#)





Eingang zum Volltext

Bitte beziehen Sie sich beim Zitieren dieses Dokuments auf folgende
URL: <http://ubopenac.ub.uni-bielefeld.de/openaccess/volltexte/2006/15/>

► [Hinweis zum Urheberrecht und andere rechtliche Hinweise](#)

[Kleine, H.](#) ; [Wilke, R.](#) ; [Pelargus, Ch.](#) ; [Rott, K.](#) ; [Pühler, A.](#) ; [Reiss, G.](#) ; [Ros, R.](#) ; [Anselmetti, D.](#)

Absence of intrinsic electric conductivity in single dsDNA molecules

pdf-Format: [Dokument 1.pdf \(200 KB\)](#)

Kurzfassung in englisch:

The intrinsic dc conductivity of long, individual lambda phage dsDNA molecules has been investigated by ultrasensitive low current voltage-spectroscopy (IV) under ambient conditions and controlled low humidity inert gas atmosphere on microfabricated metal insulator metal gap structures. We found a strong dependence of the measured conductivity on the apparent humidity, which we attribute to capillary condensation of water to the immobilized DNA molecules, giving rise to additional ionic currents. Additional IV-spectroscopy experiments under controlled argon atmosphere always revealed a significant drop in electrical conductivity to $4 \cdot 10^{-15} \text{ A/V 1 m}^{-1}$, indicating almost no considerable contribution of electrical long range charge transport.

Schlagwörter: DNA conductivity , Current voltage spectroscopy , Microstructures
Klassifikation: Physics
Dokumentart: Zeitschriftenaufsatz
Quelle: Erschienen in: Journal of Biotechnology Vol. 112, P. 91–95 , Y. 2004
Sprache: englisch
Erscheinungsjahr: 2004
**Datum des Eintrags
in das Repository:** 10.01.2006





Browsen: Science

- ◆ [Science](#) (0 Dok.)
- ◆ [Mathematics](#) (0 Dok.)
- ◆ [Astronomy and allied sciences](#) (0 Dok.)
- ◆ [Physics](#) (40 Dok.)
- ◆ [Chemistry and allied sciences](#) (0 Dok.)
- ◆ [Earth sciences and geology](#) (0 Dok.)
- ◆ [Life sciences, biology](#) (11 Dok.)
- ◆ [Plants \(Botany\)](#) (0 Dok.)
- ◆ [Animals \(Zoology\)](#) (0 Dok.)





Suchen

Exakte Suche Teilwortsuche (nur ein Begriff pro Suchfeld!)

Freitext	<input type="text"/>	und	<input type="text"/>
Person	<input type="text"/>	und	<input type="text"/>
Jahr	<input type="text"/>		

Treffer pro Seite:

Sortierung:

Tipps für die Suche

1. Im Suchfeld **Freitext** durchsuchen Sie gleichzeitig *Titel, Schlagwort und Abstract*.
2. Autorennamen sind wie folgt suchbar: *Nachname, Vorname*. Ist der Vorname nur in abgekürzter Form bekannt, lassen Sie bitte den Abkürzungspunkt weg oder geben Sie allein den Nachnamen ein.
3. Bei **exakter Suche** müssen die Suchbegriffe einschließlich Artikel etc. genau in der Reihenfolge eingegeben werden, in der sie auch in der Datenbank vorkommen. Bei **Teilwortsuche** können beliebige Begriffe oder Teile von Begriffen gesucht werden. Es kann jedoch nur **ein Begriff pro Suchfeld** eingegeben werden.
4. Einzelne unbekannt Buchstaben innerhalb eines Begriffes können durch den Platzhalter **_** (Unterstrich) ersetzt werden. Z.B. liefert die Anfrage *Ma_er* im Suchfeld Person u.a. die verschiedenen Schreibweisen Maier, Mayer usw.
5. Im Suchfeld **Quelle** können Sie nach der Erstveröffentlichung (Zeitschrift, Tagungsband etc.) des Postprints suchen.

Fragen und Anregungen an:

[WWW-Redaktion](#), Universitätsbibliothek Bielefeld

OAI-zertifiziert



Universität Bielefeld
Bibliothek



Letzte Änderung: 09.01.06



Anmelden von Postprints für das Bielefeld eScholarship Repository

Bitte füllen Sie zunächst nachfolgende Felder aus, damit das Anmeldeformular für das Bielefeld eScholarship Repository in geeigneter Form generiert werden kann.

Um welche Dokumentart handelt es sich?

Bitte aus der Liste auswählen:

Wie viele Verfasser sind an dem Dokument beteiligt?

Bitte Anzahl eingeben:

Wie viele Fachgebiete (nach DDC) sollen angegeben werden?

Bitte Anzahl eingeben:

[Formular anfordern](#)

[Formularinhalt löschen](#)

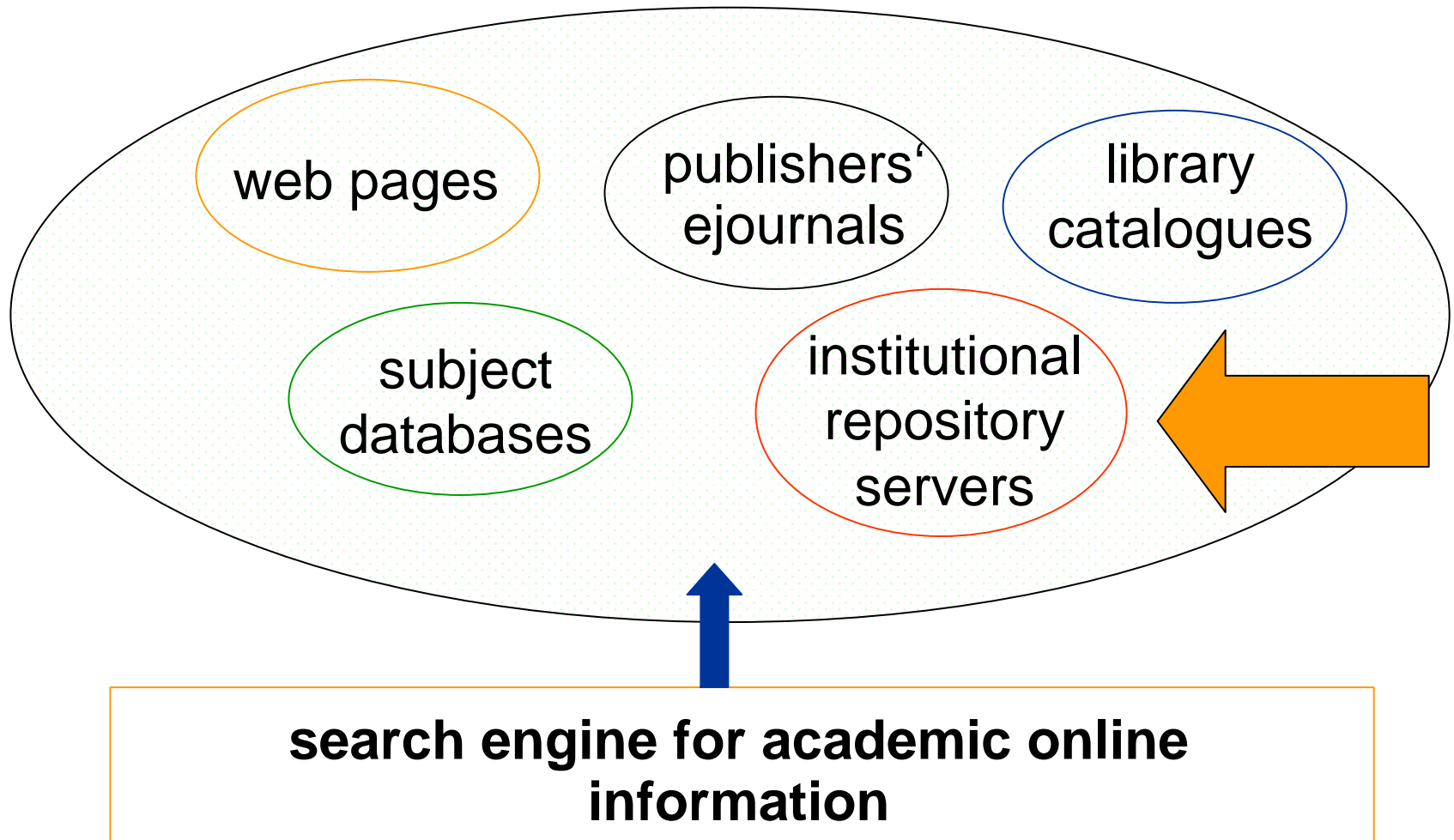


Bielefeld Academic Search Engine BASE

- 2004 Launch of the Bielefeld Academic Search Engine (BASE) on the basis of FAST Data Search Software
- Main objectives of BASE:
 - to overcome the fragmentation of academic search information resources
 - to use search & retrieval standards provided by search engine technology
 - to provide comfortable search interfaces and flexible result presentation
 - to handle with highly structured and unstructured data
 - to create spacious shared indices for a new kind of “meta” search



Bielefeld Academic Search Engine BASE



<http://base.ub.uni-bielefeld.de>



OAI university repositories in BASE



BASE homepage

The screenshot shows a Konqueror browser window titled "BASE - Bielefeld Academic Search Engine - Konqueror". The address bar contains "http://base.ub.uni-bielefeld.de/index_english.html". The browser's menu bar includes "Dokument", "Bearbeiten", "Ansicht", "Gehe zu", "Lesezeichen", "Extras", "Einstellungen", "Fenster", and "Hilfe". The toolbar contains various navigation and utility icons. The page content features the BASE logo and the text "Bielefeld Academic Search Engine". Below this, there is a "Home" link with a German flag icon. The main content area is divided into four sections: "BASE Search" with links to "Digital Collections" and "Math Demonstrator"; "About BASE" with links to "Project", "Partners", "Content sources", "Team", and "Publications"; "BASE Help" with links to "Help about search" and "Help about the result list"; and "Contact" with links to "Imprint" and "Feedback". A paragraph of text describes BASE as a project at Bielefeld University Library, offering an integrated search in heterogeneous scientific resources worldwide, and notes that it is currently a "Demonstrator" and appreciates user feedback. The footer contains the text "BASE - Bielefeld Academic Search Engine" and "© 2004 by Bielefeld University Library | Search Technology provided by FAST".


BASE - Bielefeld Academic Search Engine - Konqueror

Dokument Bearbeiten Ansicht Gehe zu Lesezeichen Extras Einstellungen Fenster Hilfe

Adresse: http://base.ub.uni-bielefeld.de/index_english.html

SuSE Rainer Maria Rilka BRS/Search -- JASON-Entwicklungssystem http://bl.epnet.c...&an=16598707&lo=No

BASE Bielefeld Academic Search Engine

Home 

BASE Search

- Digital Collections
- Math Demonstrator

BASE Help

- Help about search
- Help about the result list

About BASE

- Project
- Partners
- Content sources
- Team
- Publications

Contact

- Imprint
- Feedback

BASE is a project at Bielefeld University Library.
BASE offers an integrated search in heterogeneous scientific resources worldwide.
At present BASE is still a "Demonstrator" -
we appreciate your feedback which will foster further development and improvement.

BASE - Bielefeld Academic Search Engine
© 2004 by Bielefeld University Library | Search Technology provided by FAST

About BASE: resources

Instant Message | I-Online | Internet | Neuigkeiten | Interessantes | Mitglieder | Marktplatz

BASE Bielefeld Academic Search Engine

Startseite » Über BASE » Die Quellen

- BASE Startseite
- BASE Suche
- BASE Hilfe
- Über BASE
- Kontakt

Über BASE: Die Quellen

Über BASE Digital Collections und BASE Mathematics sind zur Zeit **durchsuchbar**:

Anzahl der Dokumente: 813.316
 Anzahl der Quellen: 45
 Letzte Indexierung: 10.03.2005

Name der Quelle	Betreiber / Host	Indexierte Dokumente	URL der Quelle
Springer Mathematics	Springer-Verlag Heidelberg	246.620	http://www.springeronline.com/sgw/cda/frontpage/0,10735,5-10042-0-0-0,00.html
Zentralblatt MATH	FIZ Karlsruhe / Zentralblatt für Mathematik (Host)	137.680	http://www.emis.de/ZMATH/de/
Internet Library of Early Journals	Oxford University Library Services (Host)	104.190	http://www.bodley.ox.ac.uk/filej/
Zeitschriften der Aufklärung	Universitätsbibliothek Bielefeld	82.250	http://www.ub.uni-bielefeld.de/diglib/aufklaerung/
Bibliothekskatalog (nur Mathematik)	Universitätsbibliothek Bielefeld	76.170	http://www.ub.uni-bielefeld.de/databases/opac/
Projekt Gutenberg-DE	Spiegel-Online (Host)	59.200	http://gutenberg.spiegel.de/
Historical Math Monographs	Cornell University Library	18.370	http://historical.library.cornell.edu/math/
Virtueller Medienserver	Bibliotheksservice-Zentrum Baden-Württemberg	15.750	http://www.bs2-bw.de/diglib/medserv/
BioMed Central	BioMed Central Ltd.	14.880	http://www.biomedcentral.com/
Preprint Server Mathematik / Documenta Mathematica (elektronische Zeitschrift)	Universität Bielefeld, Fakultät für Mathematik	12.130	http://www.mathematik.uni-bielefeld.de/ http://www.math.uni-bielefeld.de/documenta/
Project Euclid	Cornell University Library	6.520	http://projecteuclid.org/Dienst/UI/1.0/Home
eScholarship Repository	University of California	5.910	http://repositories.cdlib.org/escholarship/
ETH E-Collection	Eidgenössische Technische Hochschule Zürich	5.340	http://e-collection.ethbib.ethz.ch
Scholarly Materials and Research (SMARTech)	Georgia Tech	3.960	http://smartech.gatech.edu/
Scripta Academica Ludensia	Lund University, Sweden	3.460	http://theses.lub.lu.se/postgrad/
Medizinische Publikationen	Verlag Krause & Pachernegg	2.880	http://www.kup.at/db/
thèses-EN-ligne (diss-ON-line)	Centre pour la Communication Scientifique Directe (CCSD)	2.870	http://tel.ccsd.cnrs.fr/
Digital Repository of the University of	Univ. of Maryland	2.070	http://drum.umd.edu/

Advanced Search form

BASE Digital Collections - Bielefeld Academic Search Engine - Mozilla (Build ID: 2002082606)

File Edit View Go Bookmarks Tools Window Help

Back Forward Reload Stop <http://digital.ub.uni-bielefeld.de/index.php?l=en> Search Print

Home Bookmarks T-Online PrivateHomepage WetterOnline Deutsch... GMX - Login Google LE0 English/German... Ihr persönliches Finan... Webmail - Universität... Registered Data Prov...

BASE Digital Collections Demonstrator

Advanced Search [Deutsche Version](#) | [Basic Search](#) | [Help](#)

Complete Document

Author

Title

Keywords

Hits per Page

Refine your Search

Published (format YYYY)

Content Sources

- All **free** content sources
- Deselect free content sources
- Create subset of free content sources
 - BioMed Central
 - Cornell UL: Historical Math Monographs
 - Cornell UL: Project Euclid
 - ETH Zurich: ETH E-Collection
 - Institutional Repositories: Australia/Oceania
 - Institutional Repositories: Germany
 - Institutional Repositories: Europe
 - Institutional Repositories: USA/Canada
 - Internet Library of Early Journals
 - Projekt Gutenberg-DE
 - SUB Goettingen/GDZ: Mathematica
 - TIB/UB Hannover: Research Reports, BMBF
 - Bielefeld UL: Journals of the German Enlightenment
 - Univ. of Michigan: Historical Math Collection
 - Bielefeld University: Math. Preprints, e-journal Documenta Mathematica
 - Verlag Krause & Pachernegg
- All **licensed** content sources
- Deselect licensed content sources
- Create subset of licensed content sources
 - Springer-Verlag Heidelberg

BASE - Bielefeld Academic Search Engine | [About BASE](#) | [Imprint](#)
© 2004 by [Bielefeld University Library](#) | Search Technology provided by [FAST](#)

Document: Done (1.04 secs) 2/28

Subject index browsing

The screenshot shows a Mozilla browser window displaying the BASE Mathematics website. The browser's address bar shows a local file path: `file:///K:/AG%20Fast/Screenshots/New%20Orleans/md_browse-subject_msc.gif`. The website has a yellow header with the text "BASE Mathematics" and "Demonstrator". Below the header, there are navigation links: "deutsche Version", "Simple Search", and "Help".

The main content area is divided into several sections:

- Advanced Search:** Includes fields for "Complete Document" (Author, Title, Keyword), "Hits per Page" (set to 10 Results), and radio buttons for "free content sources" and "licenced and free c".
- Restrict your search:** Includes a "Published" dropdown set to "in year" and a "Content Sources" list with checkboxes for various institutions like Bielefeld University, Cornell UL, and SUB Goettingen/GDZ.
- Search History:** A section at the bottom of the main content area.

A popup window titled "BASE: Browsing by Subject - Microsoft Internet..." is open, displaying a list of subject keywords for "MSC" (Mathematics Subject Classification). The list includes:

- 00-XX: General
- 00-01: Instructional exposition (textbooks, tutorial papers, etc.)
- 00-02: Research exposition (monographs, survey articles)
- 00Axx: General and miscellaneous specific topics
- 00A05: General mathematics
- 00A06: Mathematics for nonmathematicians (engineering, social sciences, etc.)
- 00A07: Problem books
- 00A08: Recreational mathematics
- 00A15: Bibliographies
- 00A20: Dictionaries and other general reference works
- 00A22: Formularies
- 00A30: Philosophy of mathematics, See also {03A05:}
- 00A35: Methodology of mathematics, didactics
- 00A40: General applied mathematics (Engineering)

The taskbar at the bottom shows several open applications, including "Fertig", "Von Novell gelie...", "Pegasus Mail", "interna.doc - Mi...", "New Orleans", "Microsoft Power...", "digicoll_browse-...", and "md_browse-s...". The system clock shows "24/28".

Author index browsing

The screenshot shows a Mozilla browser window displaying the BASE Digital Collections website. The main page is titled "BASE Digital Collections" and features an "Advanced Search" section with fields for "Complete Document", "Author" (set to "abel"), "Title", and "Keyword". Below the search fields are options for "Hits per Page" (set to 10 Results) and radio buttons for "free content sources" and "licenced and free content sources". A "Restrict your search" section includes a "Published" dropdown (set to "in year") and a list of content sources with checkboxes, such as "Bielefeld University: Online Publication" and "Cornell UL: Project Euclid". A "Search!" button is located at the bottom of the search section. A "Search History" section at the bottom left shows previous searches like "linear algebra src:allfree".

An overlaid window titled "BASE: Browsing by Author - Microsoft Internet ..." is open, displaying a list of authors under the heading "Browsing by Author". The list includes:

- Author A-Z >> A >> Ab >> Abe >> Abel
- Choose an author
- ABEKEN-HEINRICH
- ABEL...
- ABEL (all) 1267
- ABELANET-ALBIN 1
- ABELARD 27
- ABELARDO-PIETRO 27
- ABELARD-JACQUES 2
- ABELARD-PETER 27
- ABELARD-PIERRE 27
- ABELAR-TAISHA 1
- ABELBECK-GERT 1
- ABELBECK-GERT-HRSG 2
- ABELBECK-GERT-RED 1
- ABELDHAUSER-WERNER 1
- ABELDT-GÜNTER 2
- ABEIN-MANFRED
- ABEIN-MANFRED-HRSG 4

The taskbar at the bottom shows the Start button and several open applications, including "Von Novell geliefert...", "Pegasus Mail", "interna.doc - Micros...", "New Orleans", "Microsoft PowerPoin...", and "digicoll_browse-a...".

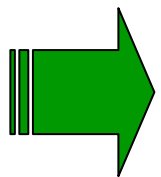
Outlook: BASE - Next Steps

- BASE => institutional repository search service by creating a special view on accordant collections:
 - Identifying these resources,
 - harvesting metadata by using an open Source OAI harvester or crawling them by using the FAST web crawler,
 - preparing these data for the search engine index,
 - display them in the BASE user interface.
- Further Visions: Integrating XML queries, citations analysis, automatic linguistic analysis of anchor texts...

Outlook: Repository development - Next steps

Bielefeld:

- intensive dialogue between Bielefeld UL and University
- Further completion of eScholarship Respository services according to scientists´ needs
- integrating BASE as repository search tool
- continuing co-operation with other German universities and research institutions via repository expert initiative group



Possible follow-up: co-operatively build up information platform for open access in Germany (WIKI-based)



Thank you for your attention.

Grazie per l'attenzione.

<http://www.ub.uni-bielefeld.de>

cordula.noetzelmann@uni-bielefeld.de

