OVERVIEW

OF THE

HIGH-ENERGY

PHYSICS

DATABASES

MANAGED BY THE

SLAC LIBRARY

(SPIRES at SLACVM)

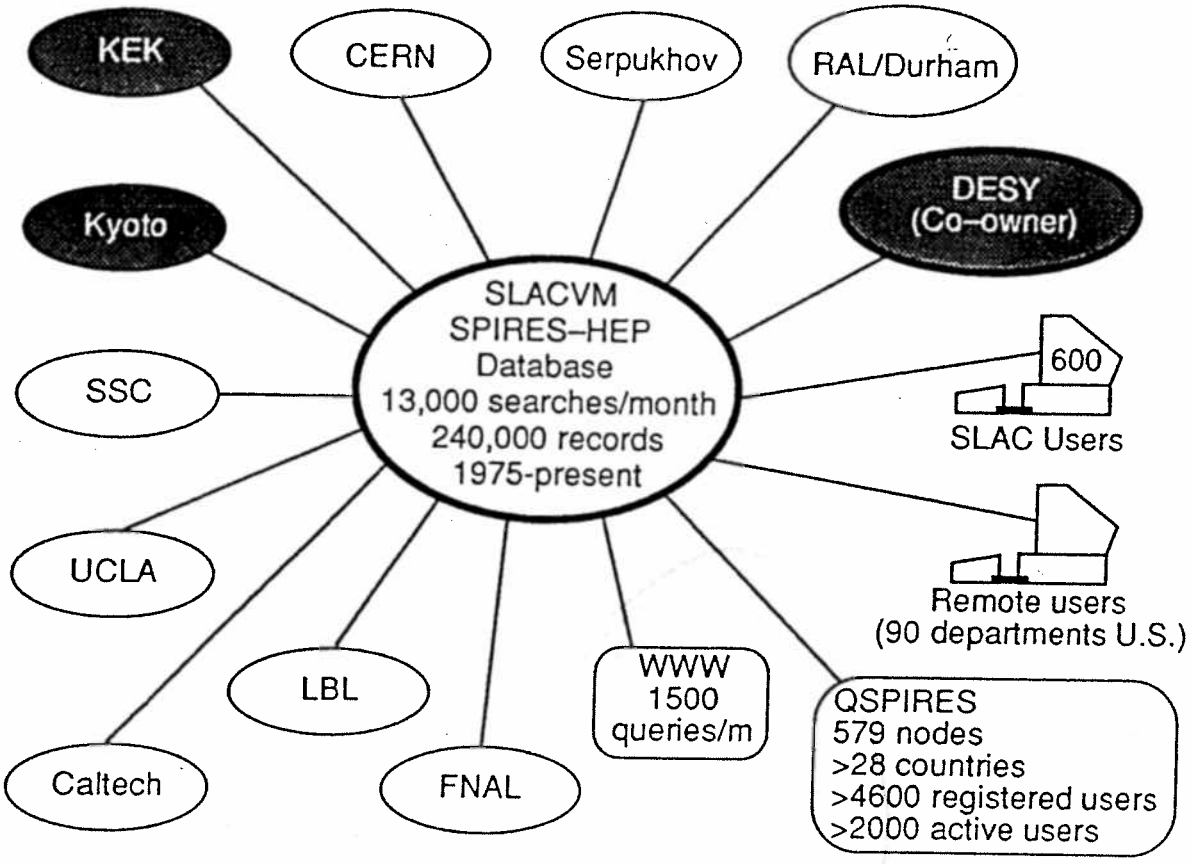
June 11, 1992

Louise Addis
ADDIS@SLACVM.BITNET
Stanford Linear Accelerator Center
Library
Stanford, CA 94309
415 926-2411

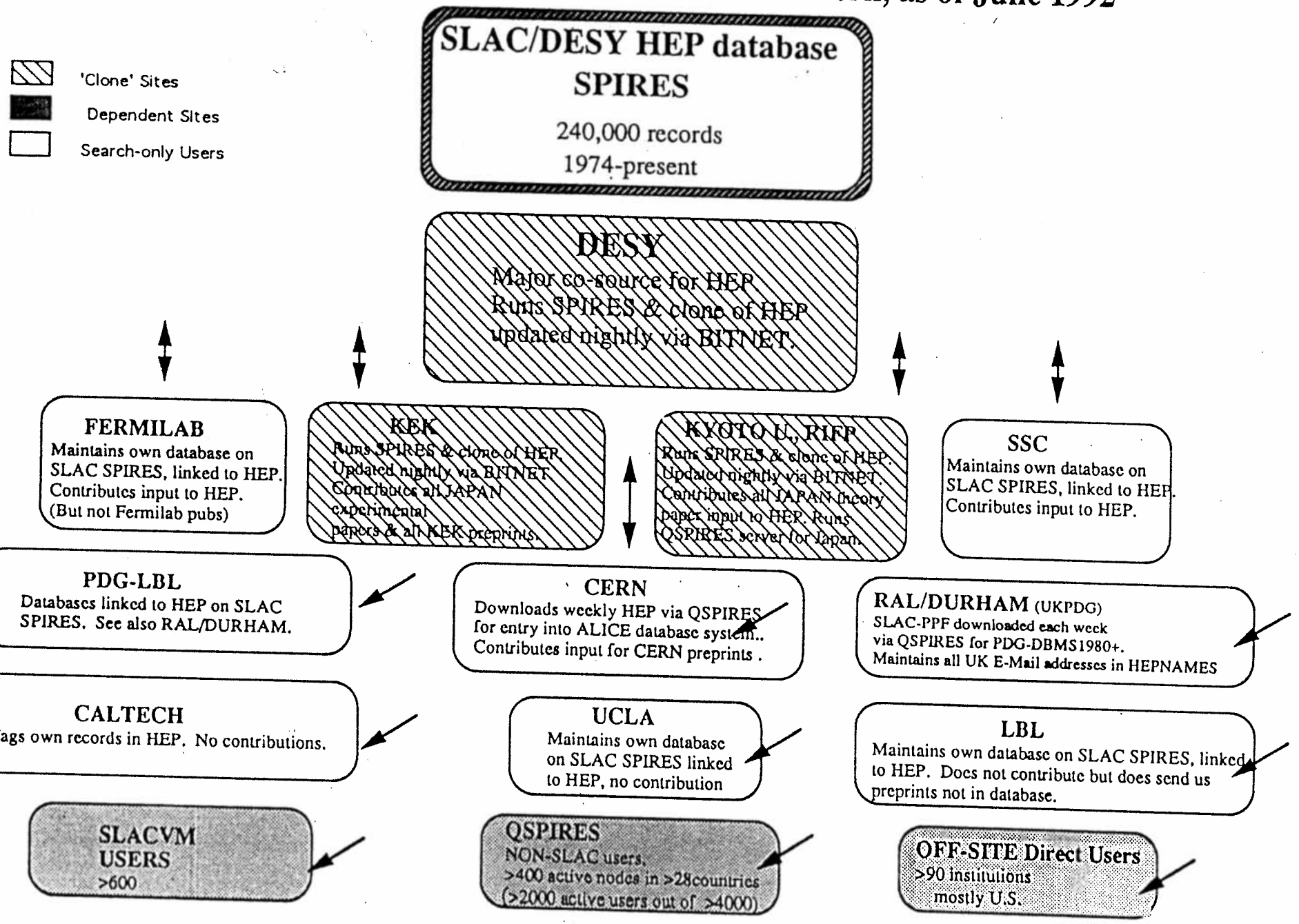
Examples of SLAC Library SPIRES DATABASES

Database	Current contents		Description
	12/89	1/92	
HEP	202,424	240,130	Preprints, reports,journal articles and conference papers, 1975+
OLDHEP			Unpublished preprints before 1975
BOOKS	16,737	18,273	Cataloged and uncataloged books (includes order management)
CIRC	n/a	41,291	On-line circulation (barcode based) system for HEP, BOOKS, etc.
INST	3,227	4,121	High-energy physics related institutional addresses, phone , fax Nos.,etc.
HEPNAMES	13,569	19,187	E-mail addresses for high-energy physicists (maintained with help from Theory Group)
CONF	3,752	4,558	Past and future high-energy physics conferences
SERIALS	1,009	1,223	Serials holdings and management records (i.e. routing)
HITECH	5,716	6,749	Vendor addresses and records of trade catalogs available in the Tech. Data Library
SLACSPEAK		1,402	A glossary of SLAC-relevant acronyms, abbreviations, and terms.
ILL	5,160	6,997	Tracks photocopying of various journal titles so that we do not violate copyright.

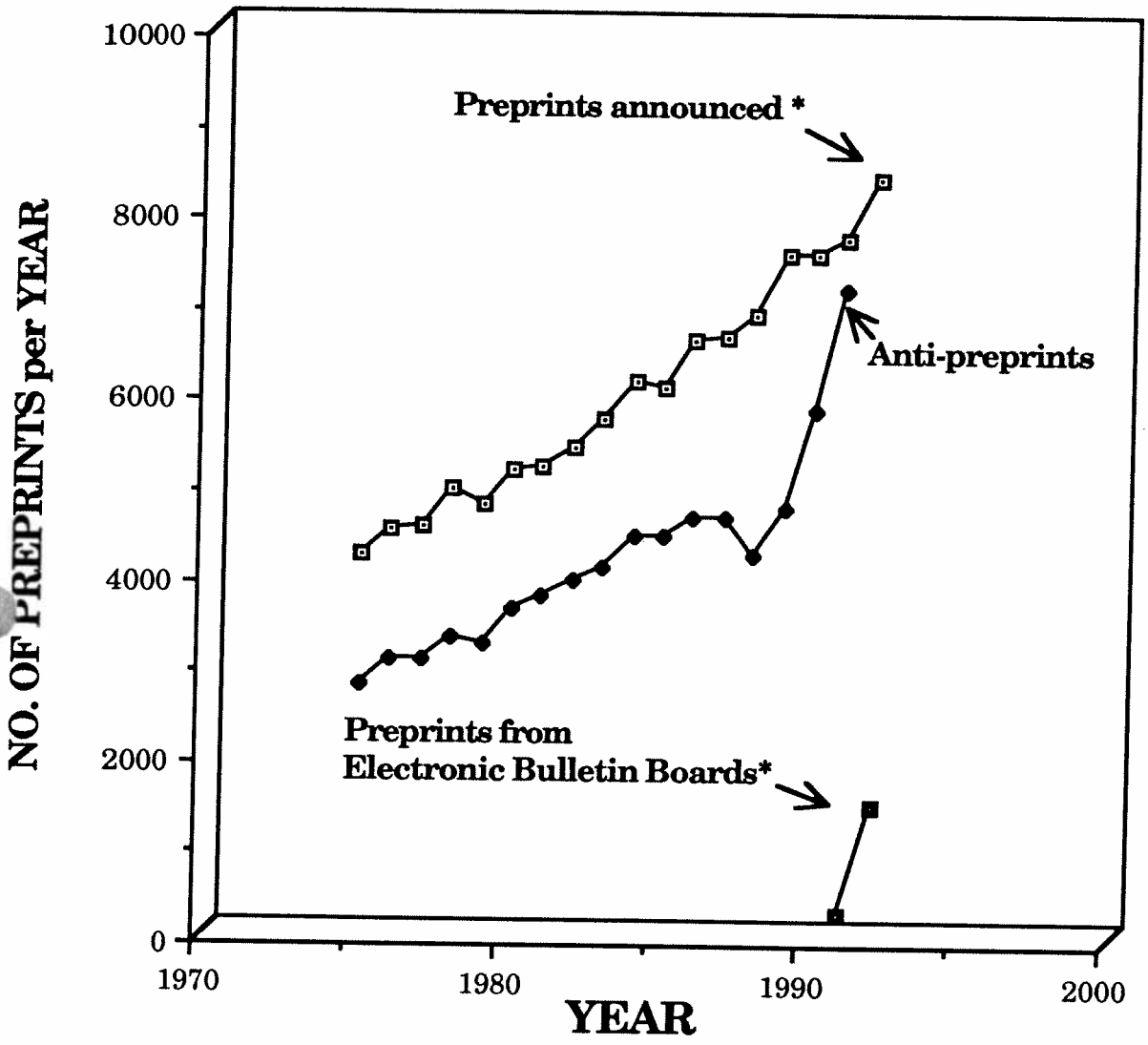
SLAC Library High–Energy Physics Information Services



SLAC/DESY HEP - Contributors and User Network, as of June 1992

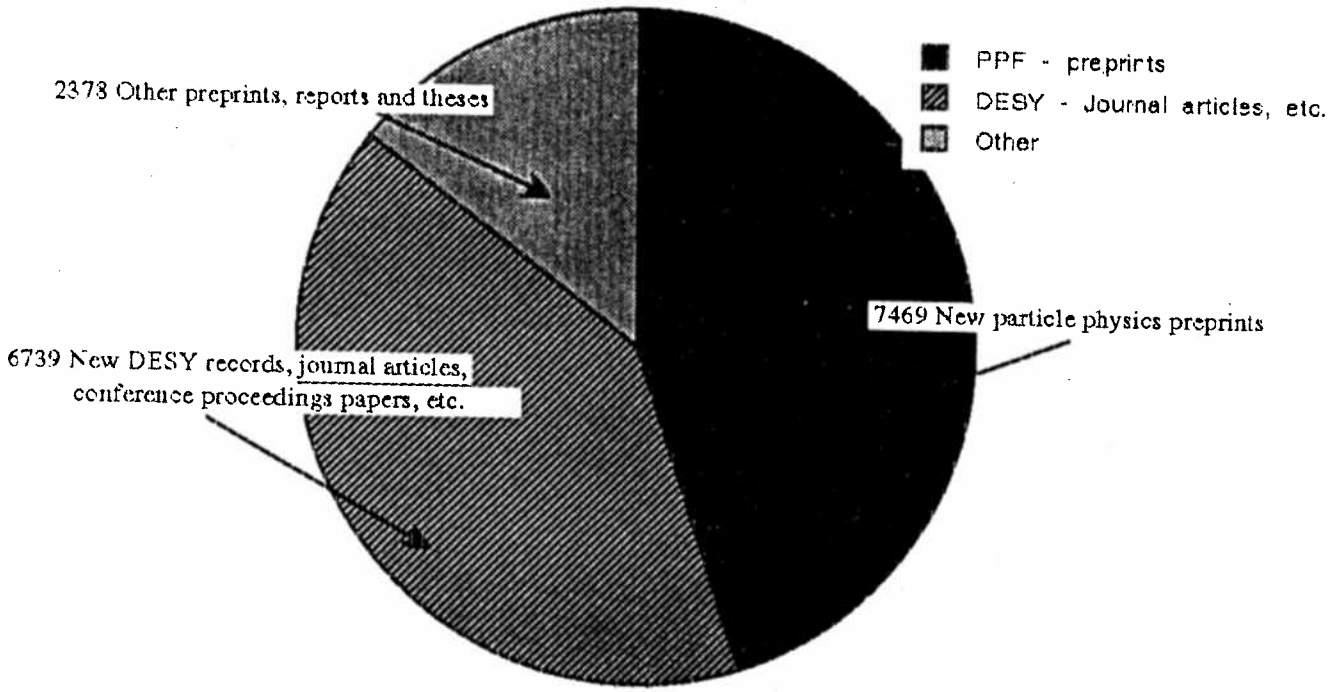


PPF: 1975-1992

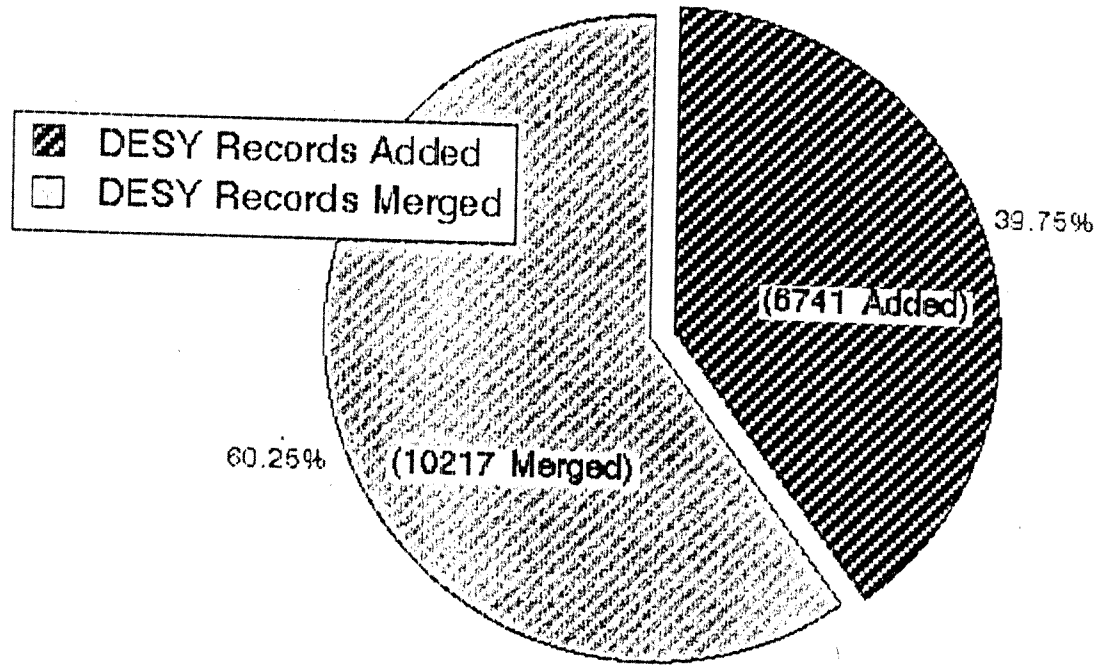


** 1992 figures est. from first 35 weeks*

SOURCE OF HEP RECORDS
1989
Total 16586



DESY RECORDS
ADDED or MERGED into HEP
1989



FILEDEF: Library:preprint

Primary Subfile: HEP

Description:

HEP (High-Energy Physics) is a joint project of the SLAC and DESY Libraries. As of Jan 1992, it included more than 239,000 bibliographic records dating from 1974 to the present. It expands at the rate of about 20,000 items per year.

HEP includes all SLAC Library preprint and report holdings from 1974 (all SLAC items from 1962+) as well as all journal articles, conference papers, theses, etc. from the DESY High-Energy Physics Index, a comprehensive bibliography produced at our sister laboratory in Hamburg, Germany.

HEP is updated daily with new preprints received in the SLAC library and biweekly with new journal articles and conference proceedings papers indexed at the DESY Library. Input is also received via BITNET from CERN, Fermilab, KEK, Yukawa Inst. at K and SSCL (as of March 1990).

Clone copies of HEP run under SPIRES at DESY, KEK, and Yukawa at Kyoto and are kept up to date by nightly updates via BITNET.

Data Management:

All incoming documents are checked against the database to eliminate duplicates.

Appropriateness check and rough subject coding is done by a professional librarian.

All topic phrases are assigned by physicists working at DESY.

All bibliographic data entered at SLAC and at DESY is carefully proofed (by two knowledgeable permanent library staff members reading aloud to each other) against the original document.

Look up tables are maintained and updated as appropriate. Non-conforming data triggers warning messages on input.

Titles and certain other information are subjected to a spelling checker as well as being proofed as specified above.

Indexes are checked periodically for problems.

There are no data entry backlogs. All preprints arriving at SLAC (approx 160 per week) are entered within a day of arrival. Technical reports are entered within a week.

SLA-PAM Division Demo
June 1993

L. Addis, SLAC

The gods of networking willing, I'll demonstrate the WORLD-WIDE-WEB* interface to the SPIRES HEP (High-Energy Physics) databases at the Stanford Linear Accelerator Center.

Full-text, including figures and equations, is viewable for many preprints which have appeared recently on physics preprint bulletin boards. The full text files (ps.Z) are linked to the SPIRES HEP database so that users may search by author, title, etc. and then view or print the entire preprint.

For more information about the WWW software, telnet to info.cern.ch (no password needed).

For more information about the WWW SPIRES connection, e-mail to Louise Addis (addis@slac.stanford.edu).

To get to the SLAC WWW test 'front page' from your WWW page use
http://slacvm.slac.stanford.edu:5080/FIND/slac.html

If you already run WWW, you'll need a browser which can cope with compressed postscript files (ps.Z) in order to actually view the full text preprints.

For more information about the new version of MidasWWW, the browser in this demo, e-mail to Tony Johnson (tonyj@slac.stanford.edu).

A warning: the 'look' of our WWW interface changes frequently as we try to improve the usability...so examples may not always exactly match what you see on the screen when you bring up the SLAC 'front page.'

**also fondly known as WWW, The Web, or W3.*

Although the annotation states that it was,
January 27 was a Thursday in 1994.

JAN 1993

File Postscript Navigate Customize Documents Manuals Help

Document: http://libnext.slac.stanford.edu:5080/Miscellaneous/wis.html

WIS invites you to join:

LOUISE ADDIS

"SURFING THE INTERNET on the WORLD-WIDE-WEB"

NOON, THURSDAY, 27 JANUARY

SCS CONFERENCE ROOM

COMPUTER BDG., 3RD FLOOR, ROOM 359

The 'Information Super Highway" is in the news these days. But did you know that SLAC is in the fast lane already???

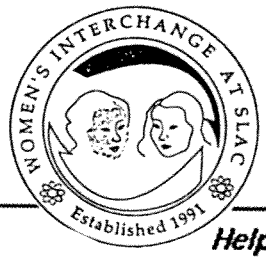
On the World-Wide-Web (WWW or the Web as it's fondly called), SLACers have easy access to information at SLAC and all over the world. You don't even have to have a fancy workstation, though folks with big Macs, X-terminals or Amigas or power PCs get to see the color pictures too and even hear the music.

Join us in a surfing session on the big screen and find out how to use the Web to get e-mail addresses, phone numbers, conference dates and programs, the SLAC Library book catalog, BaBar Notes, SLD results, SLAC PUBS, dictionaries, the Stanford University library catalogs, Folio, the Stanford Bookstore, Gopher, Wais, FTP, CERN, DESY, LBL, weather maps, the dinosaur exhibit at Honolulu Community College,Smithsonian Art Exhibits, Botanical Gardens 'down under', the FBI files on the UNIBOM bomber, and and much more. You'll even learn how to find the birthday of a famous CERN physicist (as well as her e-mail and phone number)!

ALL ARE WELCOME

Keyword:

Go Back Previous Next · Save... Search... · Clone Close Window



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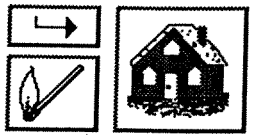


Here's an old version of the front page in a line browser. Notice the Nos.

TEST WorldWideWeb SLAC Home Page

* * * * * * * * * * * * * * * * * TEST <1> * * * * * * * * * * * * * * * * *

WORLDWIDEWEB SLAC HOME PAGE

SLAC <2> 26 Aug 1993

Use the WorldWideWeb (WWW) <3> service to gain access to a wide range of information at SLAC and elsewhere around the globe. Emphasized text like this <4> is a hypertext link.

You may view WWW information <5> through GUI or line-mode browsers <6>. At least most SLAC pages have been tested on the MidasWWW <7> X Window System browser.

SLAC Information

The following resources relate directly to SLAC's work.

People and organizations: people at SLAC <8>, people anywhere in HEP <9>, institutions <10>.

Library and SPIRES: bulletin boards (yesterday <11>, last seven days <12>, week before that <13>, anytime <14>); PPF <15>, HEP publications <16>, BOOKS <17>, SLAC Speak <18>, other <19>.

Seminars: today <20>, tomorrow <21>, this week <22>, next week <23>, anytime <24>.

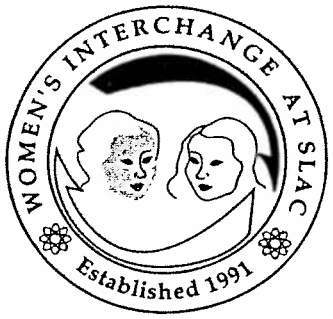
Conferences: this month <25>, next month <26>, next year <27>, anytime <28>.

News: APS News <29>, SLAC Netnews <30>, SSC News <31>, other <32>.

Experiments: BES <33>, SLD <34>, other <35>.

1-7&, PF3=Quit PF4=Return, PF7=Up , PF8=Down PF11=Help

VM READ SLACVM

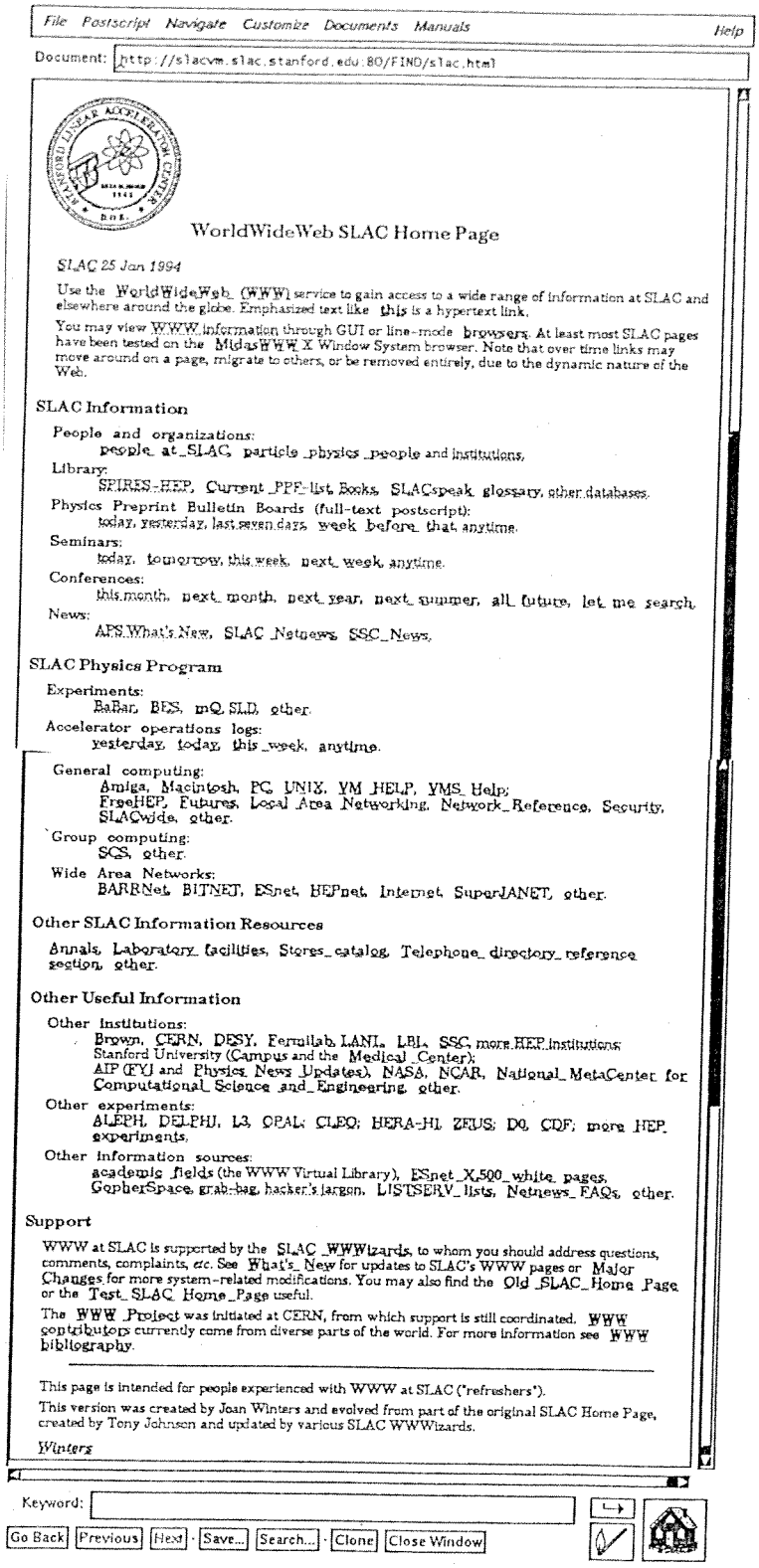


ORIG.
LOGO
DO NOT
USE, ONLY
PHOTOCOPY

CORD COVERS

Kate Ne[illegible]
2442
42620

WEB SURFING EXAMPLES:



SLAC SITE
SLACSPEAK
APS WHAT'S NEW
SLAC Seminars
SLAC Conference Rooms
HEP Conferences
B-Factory
BES
SLD
Accelerator Logs
SCS-Networking
UNIX Information
SLAC Library
- **BOOKS**
- **PREPRINTS**
- **PPF (new preprints)**

CAMPUS LIbraries, etc.
- **FOLIO, includes**

JOBS, Stanford BkStore
OTHER LABS
- **CERN, DESY**

OTHER Experiments
- **CLEO**

PDG-DURHAM
GRAB BAG
- **DINOSAURS,**
- **FBI**

PREPRINTS IN PARTICLES AND FIELDS

A list of new high-energy physics preprints received during the past week at the Stanford Linear Accelerator Center (SLAC), and currently displayed in the Library. Arranged by institutions (as represented by report numbers). Electronic bulletin board numbers are included where available and abstracts can be viewed. If you are using an X browser such as MidasWWW or Xmosaic, you may be able to view a postscript version of the entire paper. See further information at the end of this file.

August 20, 1993 93-34

PRINT-93-0590 (ARIZONA) THEOR
THE LARGE SCALE STRUCTURE IN A UNIVERSE DOMINATED BY COLD PLUS HOT DARK MATTER. n.d. 32p.
By Y.P. Jing (SISSA, Trieste &Arizona U. &Garching, Max Planck Inst.), H.J. Mo (Cambridge U., Inst. Astronomy &Garching, Max Planck Inst.), G. Borner (Garching, Max Planck Inst.), L.Z. Fang (Arizona U. &Steward Observatory, Tucson) Submitted to Astron. Astrophys. {Bulletin Board: astro-ph@babbage.sissa.it - 9308017}

Show Abstract

RX-1454 (BARCELONA) EXP
ANALYZING THE E+ E- ---> E+ E- ANGULAR DISTRIBUTION AT LEP. May 1993. 104p. (Doctoral Thesis)
By Pere Comas e Illas (Barcelona, Autonoma U.)

BARI-TH-93-150 EXP, THEOR
RADIATIVE B ---> K* GAMMA TRANSITION IN QCD. Jul 1993. 12p.
By P. Colangelo (INFN, Bari), C.A. Dominguez (SISSA, Trieste), G. Nardulli (INFN, Bari &Bari U.), N. Paver (Trieste U., IFT &INFN, Trieste) {Bulletin Board: hep-ph@xxx.lanl.gov - 9308264}

Show Abstract

BI-TP-93-15-REV EXP, THEOR
NONSTANDARD GAUGE BOSON SELFINTERACTIONS WITHIN A GAUGE INVARIANT MODEL. Apr 1993. 32p. (Revised version)
By Carsten Grosse-Knetter, Ingolf Kuss, Dieter Schildknecht

File Postscript Navigate Customize Documents Manuals Help

Document: http://slacvm.slac.stanford.edu:5080/FIND/slac.html

WorldWideWeb SLAC Home Page

SLAC 15 Oct 1993

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Seminars:
today, tomorrow, this week, next week, anytime.

Conferences:
this month, next month, next year, next summer, all future, let me search.

News:
APS What's New, SLAC Netnews, SSC News.

Experiments:
BES, mQ, SLD, other.

Accelerator operations logs:
yesterday, today, this week, anytime.

General computing:
Amiga, Macintosh, NeXT, pc, UNIX, VM HELP, VMS Help;
FreeHEP, Local Area Networking, SLACwide, other.

Group computing:
SCS, other.

Wide Area Networks:
BARRNet, BITNET, ESNet (Gopher and FTP), HEPnet, Internet, other.

Keyword:

Go Back | Previous | Next | Save... | Search... | Clone | Close Window

File Postscript Navigate Customize Documents Manuals Help

Document: http://slacvm.slac.stanford.edu:5080/FIND/SLAC.html

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WorldWideWeb SLAC Home Page

SLAC 26 Aug 1993

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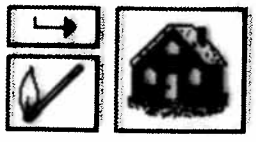

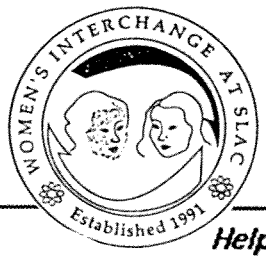

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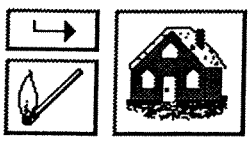

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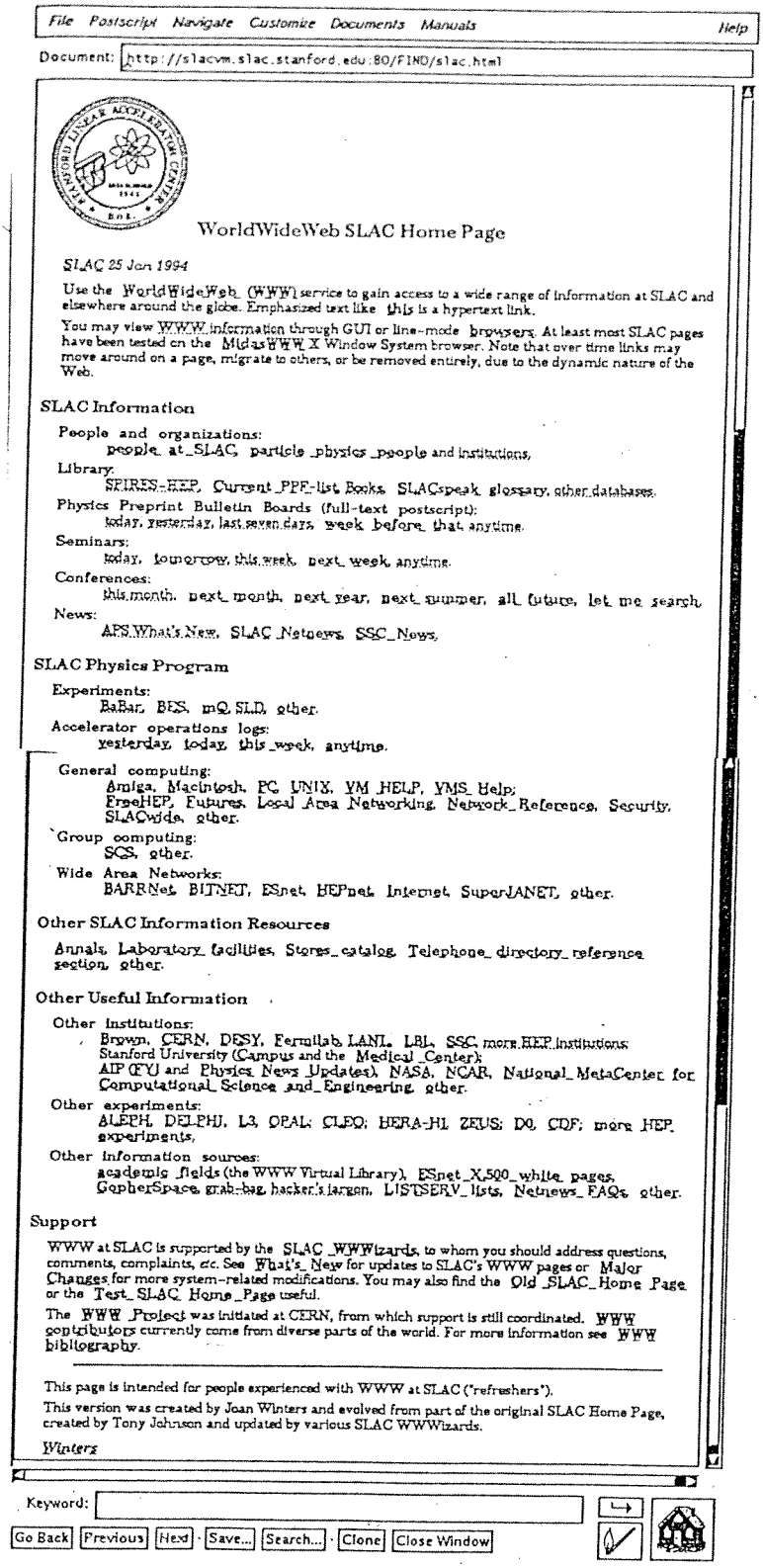

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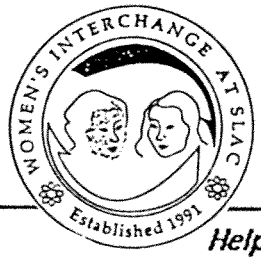

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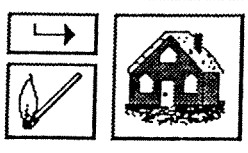


USING THE WORLD-WIDE-WEB* TO SHARE INFORMATION

L. Addis, SLAC, 1/94 (addis@slacvm.slac.stanford.edu)

Many high-energy physics laboratories now share information internally and with the outside world thru a 'World-Wide-Web Home Page.' For more information about the WWW software (developed at CERN), telnet to **info.cern.ch** (no password).

To link to the SLAC 'home page', use the URL (Universal Resource Locator):

http://slacvm.slac.stanford.edu:80/FIND/slac.html

The Web, of course, is no longer limited to use by the physics community. Hundreds of pictures and documents from myriad sources are available via the Web, which can be also used as an all-purpose interface to Gopher, Wais, Telnet, Veronica, Archie, and other services on the Internet. In fact, the Web jumped in August 1993 to 13th place (from down in the hundreds) as a generator of traffic on the Internet. Some recent statistics indicate the Web traffic on the Internet grew over 300,000% during 1993.

At SLAC, Web accesses to just our SPIRES-HEP database jumped from 14,000/month in July 1993 to 31,000/month in December.

The Web is distinguished from other popular Internet surfing utilities by its versatility and its use of hypertext, that is, some words and phrases in text can be made 'active' and lead you to other documents or information someplace else (sometimes far away) on the Internet.

The Web is non-proprietary software and enhancements are underway in many places by enthusiastic web programmers. The new developments are publicized via listservs. You can discover how to subscribe from info.cern.ch (see above) or by clicking your way to CERN on the Web itself.

The **great advantage of using the WEB to see** information on the Internet is that you don't have to remember where everything is or use different methods and different equipment to get to different information.

The **great advantage of using the WEB to provide** information is that you can maintain your information locally and don't have to worry as much about how others in different places with different equipment are going to be able to access it.

HOW TO GET A WEB BROWSER

If you wish to see information on the web, you'll need a (free) program called a browser.

At SLAC, if you have a simple Ascii terminal which only handles text display (no pictures), you can reach the web by logging on SLACVM, Unix, and some Vaxes and just typing 'web.' You will then use a 'line browser' which presents you with numbers to choose. Much web information is plain text but you won't be able to see postscript documents like SLAC-PUBS or pictures.

If you have a Mac, PC (w/windows), X-terminal, or other Unix workstation, you'll probably be able to use either a browser running under 'X-windows' or special browsers designed for your equipment. Popular browsers are MidasWWW (developed at SLAC by Tony Johnson) for X, Xmosaic, Mac Mosaic, PC Mosaic, Amiga Mosaic, and others (free). Talk to your local computer guru who may in turn want to consult with Bebo White as to which browser makes the most sense for you.

Other helpful WebWizards can be located by clicking on **WWWizards,** on the Web of course.

If you are running an X-terminal which can be logged on to Unixhub or one of the other Unix machines, you already have access to MidasWWW. You'll need to set your display variable appropriately (see your Unix guru for help) , i.e.,

setenv DISPLAY your.ip.address:0 and then issue command **web &**

For the new version of MidasWWW, the X browser shown in these examples, FTP to **freehep.scri.fsu.edu** in directory/freehep/networking_....

NCSA's Xmosaic can be obtained from **ftp.ncsa.uiuc.edu** in directory /Mosaic.

X-terminals running MidasWWW are available in the SLAC Library (Central Lab, Room Y215, x2411) and you're welcome to come by at any time to experiment with the Web.

HOW TO GET YOUR INFORMATION ON THE WEB

If you or your group has documents or information which you'd like to post on the Web, see Joan Winters in SCS (winters@slacvm). Joan develops and maintains the SLAC Home Page (a large task) and can help you with formatting issues and also make sure that your information is in just the right place.

Remember that someone in your group will have to be responsible for developing and maintaining! your Web information.

SPIRES on the WEB (physics preprints and SLAC PUBS)

Full-text, including figures and equations, is viewable for hundreds of preprints which have appeared recently on physics preprint bulletin boards. The full text files (ps.Z) are linked to the SPIRES HEP database so that users may search by author, title, etc. and then view or print entire preprints. The conversion of the bulletin board papers from TeX source to viewable level 1 postscript is a project of the SLAC Library in collaboration with DESY, CERN, LANL and most recently Brown Univ (cooperation made possible by the Internet and the Web!)

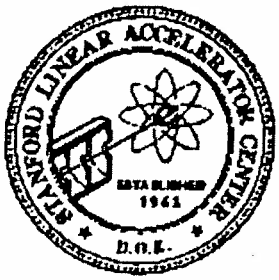
Some of the attached examples show how a WWW user with the X-browser MidasWWW might find and view the full text of a physics preprint. A warning: to view these documents and SLAC PUBS you'll need a browser that can not only handle postscript but compressed postscript, ps.Z

GOOD SURFING!

* WWW is also known, fondly, as W3 and 'The Web'

File Postscript Navigate Customize Documents Manuals Help

Document: http://slacvm.slac.stanford.edu:80/FIND/slac.html



WorldWideWeb SLAC Home Page

SLAC 25 Jan 1994

Use the WorldWideWeb (WWW) service to gain access to a wide range of information at SLAC and elsewhere around the globe. Emphasized text like this is a hypertext link.

You may view WWW information through GUI or line-mode browsers. At least most SLAC pages have been tested on the MidasWWW X Window System browser. Note that over time links may move around on a page, migrate to others, or be removed entirely, due to the dynamic nature of the Web.

SLAC Information

People and organizations:
people at SLAC, particle physics people and institutions.

Library:
SPIRES-HEP, Current PPF-list, Books, SLACspeak glossary, other databases.

Physics Preprint Bulletin Boards (full-text postscript):
today, yesterday, last seven days, week before that, anytime.

Seminars:
today, tomorrow, this week, next week, anytime.

Conferences:
this month, next month, next year, next summer, all future, let me search.

News:
APS What's New, SLAC Netnews, SSC News.

SLAC Physics Program

Experiments:
BaBar, BES, mQ, SLD, other.

Accelerator operations logs:
yesterday, today, this week, anytime.

SLAC Computing

Keyword:

Go Back | Previous | Next | Save... | Search... | Clone | Close Window

General computing:
Amiga, Macintosh, PC, UNIX, VM_HELP, VMS_Help;
FreeHEP, Futures, Local_Area_Networking, Network_Reference, Security, SLACwide, other.

Group computing:
SCS, other.

Wide Area Networks:
BARRNet, BITNET, ESnet, HEPnet, Internet, SuperJANET, other.

Other SLAC Information Resources

Annals, Laboratory_facilities, Stores_catalog, Telephone_directory_reference section, other.

Other Useful Information

Other institutions:
Brown, CERN, DESY, Fermilab, LANL, LBL, SSC, more HEP institutions;
Stanford University (Campus and the Medical_Center);
AIP (FYI and Physics_News_Updates), NASA, NCAR, National_MetaCenter for Computational_Science_and_Engineering, other.

Other experiments:
ALEPH, DELPHI, L3, OPAL; CLEO; HERA-H1, ZEUS; D0, CDF; more HEP experiments.

Other information sources:
academic_fields (the WWW Virtual Library), ESnet_X.500_white_pages, GopherSpace, grab-bag, hacker's jargon, LISTSERV_lists, Netnews_FAQs, other.

Support

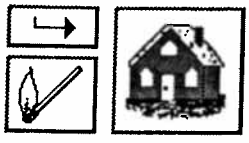
WWW at SLAC is supported by the SLAC_WWWizards, to whom you should address questions, comments, complaints, *etc.* See What's_New for updates to SLAC's WWW pages or Major Changes for more system-related modifications. You may also find the Old_SLAC_Home_Page or the Test_SLAC_Home_Page useful.

The WWW_Project was initiated at CERN, from which support is still coordinated. WWW contributors currently come from diverse parts of the world. For more information see WWW bibliography.

This page is intended for people experienced with WWW at SLAC ("refreshers").

This version was created by Joan Winters and evolved from part of the original SLAC Home Page, created by Tony Johnson and updated by various SLAC WWWizards.

Winters



Here's an old version of the front page in a line browser. notice the Nos.

TEST WorldWideWeb SLAC Home Page

* * * * * * * * * * * * * * * * * TEST <1> * * * * * * * * * * * * * * * * *

WORLDWIDEWEB SLAC HOME PAGE

SLAC <2> 26 Aug 1993

Use the WorldWideWeb (WWW) <3> service to gain access to a wide range of information at SLAC and elsewhere around the globe. Emphasized text like this <4> is a hypertext link.

You may view WWW information <5> through GUI or line-mode browsers <6>. At least most SLAC pages have been tested on the MidasWWW <7> X Window System browser.

SLAC Information

The following resources relate directly to SLAC's work.

People and organizations:
people at SLAC <8>, people anywhere in HEP <9>, institutions <10>.

Library and SPIRES:
bulletin boards (yesterday <11>, last seven days <12>, week before that <13>, anytime <14>); PPF <15>, HEP publications <16>, BOOKS <17>, SLAC Speak <18>, other <19>.

Seminars:
today <20>, tomorrow <21>, this week <22>, next week <23>, anytime <24>.

Conferences:
this month <25>, next month <26>, next year <27>, anytime <28>.

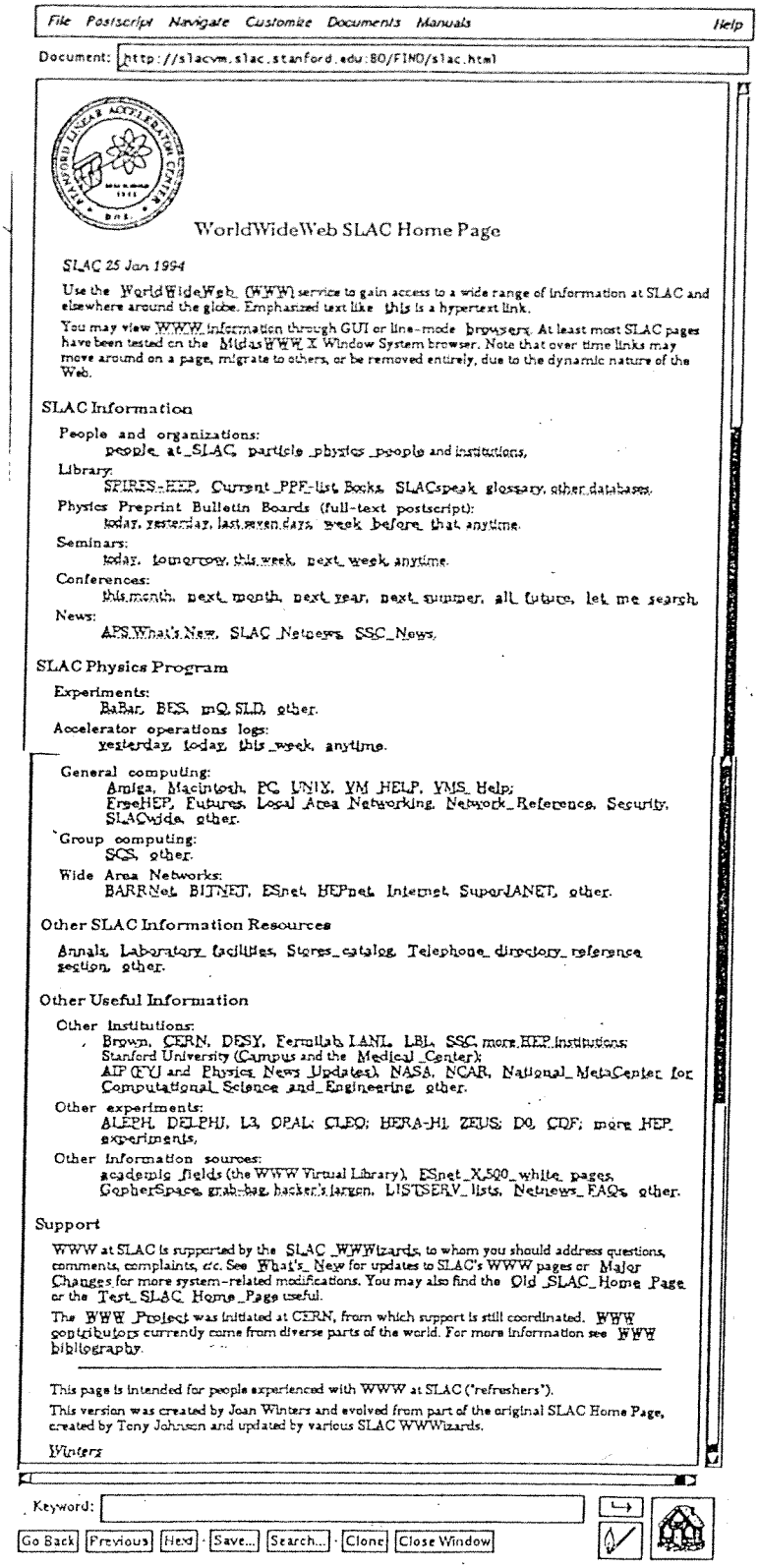
News:
APS News <29>, SLAC Netnews <30>, SSC News <31>, other <32>.

Experiments:
BES <33>, SLD <34>, other <35>.

1-78, PF3=Quit PF4=Return, PF7=Up , PF8=Down PF11=Help

VM READ SLACVM

WEB SURFING EXAMPLES:



SLAC SITE
SLACSPEAK
APS WHAT'S NEW
SLAC Seminars
SLAC Conference Rooms
HEP Conferences
B-Factory
BES
SLD
Accelerator Logs
SCS-Networking
UNIX Information
SLAC Library
- BOOKS
- PREPRINTS
- PPF (new preprints)

CAMPUS LIbraries, etc.
- FOLIO, includes

JOBS, Stanford BkStore
OTHER LABS
- CERN, DESY

OTHER Experiments
- CLEO

PDG-DURHAM
GRAB BAG
- DINOSAURS,
- FBI

EXAMPLE:

Using WWW and SPIRES to view the full text of a scientific paper (from the hep-ph physics preprint bulletin board).

The document address is stored in a SPIRES database (ABSTRACTS) on SLACVM. It could be either FTP or WWW server address. A SPIRES format creates the HTML for W3.

This example uses the 'MidasWWW' browser running with X-windows and views a postscript version of the paper.

File Postscript Navigate Customize Documents Manuals Help

Document: http://slacvm.slac.stanford.edu:5080/FIND/hep

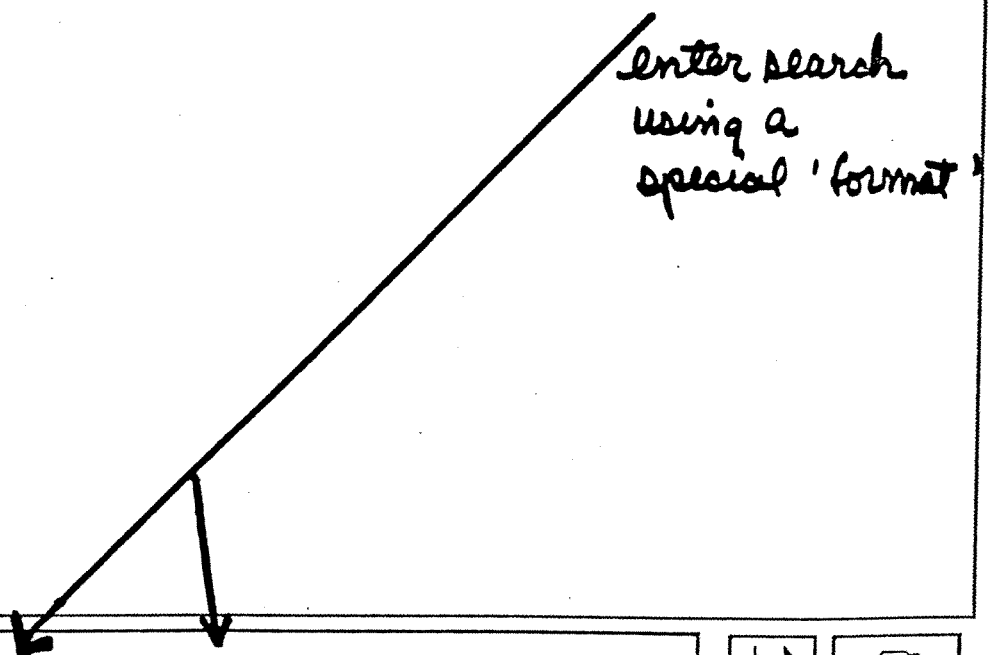
SLAC SPIRES: HEP Preprint database search

Send corrections to: LIBRARY@SLAC.STANFORD.EDU . Use QSPIRES search language (see examples below). Note that there is no possibility for iterative search (yet) in WWW. Therefore, when needed, combine several criteria in a single request. Need more help ? Examples:

```
show indexes
find author perl, m &title tau &date before 1980 (using brief
find bulletin-bd  hepth and date-added 12/92
find cn prefix mark-iii and date after march 1991 (using full
browse coden physics letters
find c phlta, 70b, 487
find a abe &date 1988 (using wwwcite          [shows citations!]
browse affiliation caltech
find af cal tech and date 1992 (result
browse topic higgs
find topic higgs boson or title higgs &date 6-92 (using allkeys
browse last ppf
find ppf 9234 (seq rs using brief
```

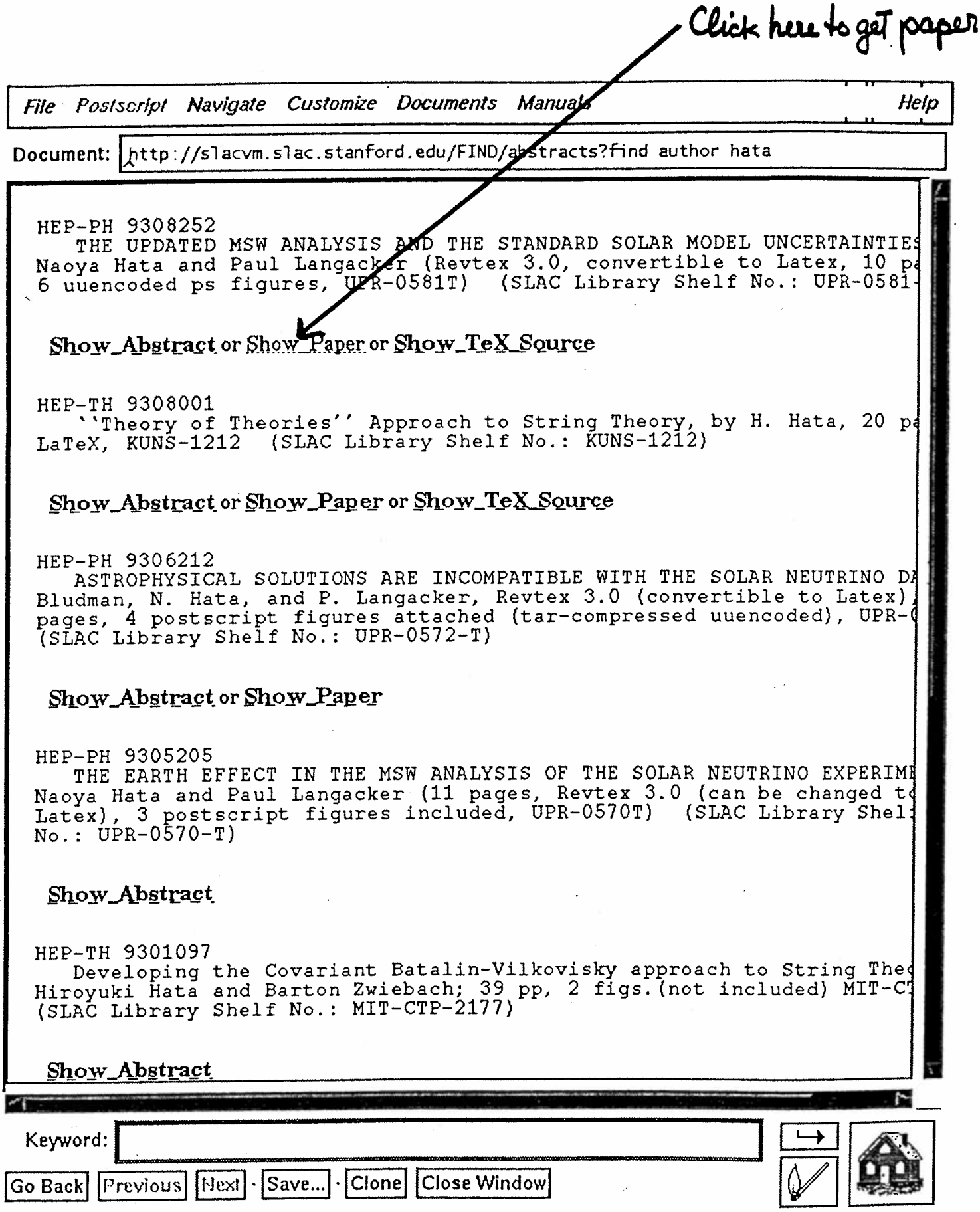
To learn more on authors, institutions, or acronyms, try WHOIS, WHEREIS, or WHATIS:

```
whois ginsparg
whereis cern
whatis sld
```



Keyword: FIND AUTHOR GINSPARG (USING WWWCITE

Go Back | Previous | Next | Save... | Clone | Close Window


Click here to get paper
File Postscript Navigate Customize Documents Manuals Help
Document: http://slacvm.slac.stanford.edu/FIND/abstracts?find author hata
HEP-PH 9308252
THE UPDATED MSW ANALYSIS AND THE STANDARD SOLAR MODEL UNCERTAINTIES
Naoya Hata and Paul Langacker (Revtex 3.0, convertible to Latex, 10 pa
6 uuencoded ps figures, UPR-0581T) (SLAC Library Shelf No.: UPR-0581-
Show_Abstract or Show_Paper or Show_TeX_Source
HEP-TH 9308001
``Theory of Theories'' Approach to String Theory, by H. Hata, 20 pa
LaTeX, KUNS-1212 (SLAC Library Shelf No.: KUNS-1212)
Show_Abstract or Show_Paper or Show_TeX_Source
HEP-PH 9306212
ASTROPHYSICAL SOLUTIONS ARE INCOMPATIBLE WITH THE SOLAR NEUTRINO DA
Bludman, N. Hata, and P. Langacker, Revtex 3.0 (convertible to Latex),
pages, 4 postscript figures attached (tar-compressed uuencoded), UPR-(
(SLAC Library Shelf No.: UPR-0572-T)
Show_Abstract or Show_Paper
HEP-PH 9305205
THE EARTH EFFECT IN THE MSW ANALYSIS OF THE SOLAR NEUTRINO EXPERIME
Naoya Hata and Paul Langacker (11 pages, Revtex 3.0 (can be changed to
Latex), 3 postscript figures included, UPR-0570T) (SLAC Library Shelf
No.: UPR-0570-T)
Show_Abstract
HEP-TH 9301097
Developing the Covariant Batalin-Vilkovisky approach to String Theo
Hiroyuki Hata and Barton Zwiebach; 39 pp, 2 figs.(not included) MIT-CT
(SLAC Library Shelf No.: MIT-CTP-2177)
Show_Abstract
Keyword:
Go Back Previous Next · Save... · Clone Close Window

Click here to open title page

File Postscript Navigate Customize Documents Manuals Help

Document: http://libnext.slac.stanford.edu:5080/hep-ph/9308/9308252.ps.Z

This is a multipage Postscript document, select page:

- Page 1
- Page 2
- Page 3
- Page 4
- Page 5
- Page 6
- Page 7
- Page 8
- Page 9
- Page 10
- Page 11
- Page 12
- Page 13
- Page 14
- Page 15

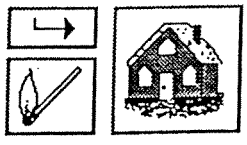
Click here to open Color postscript figure

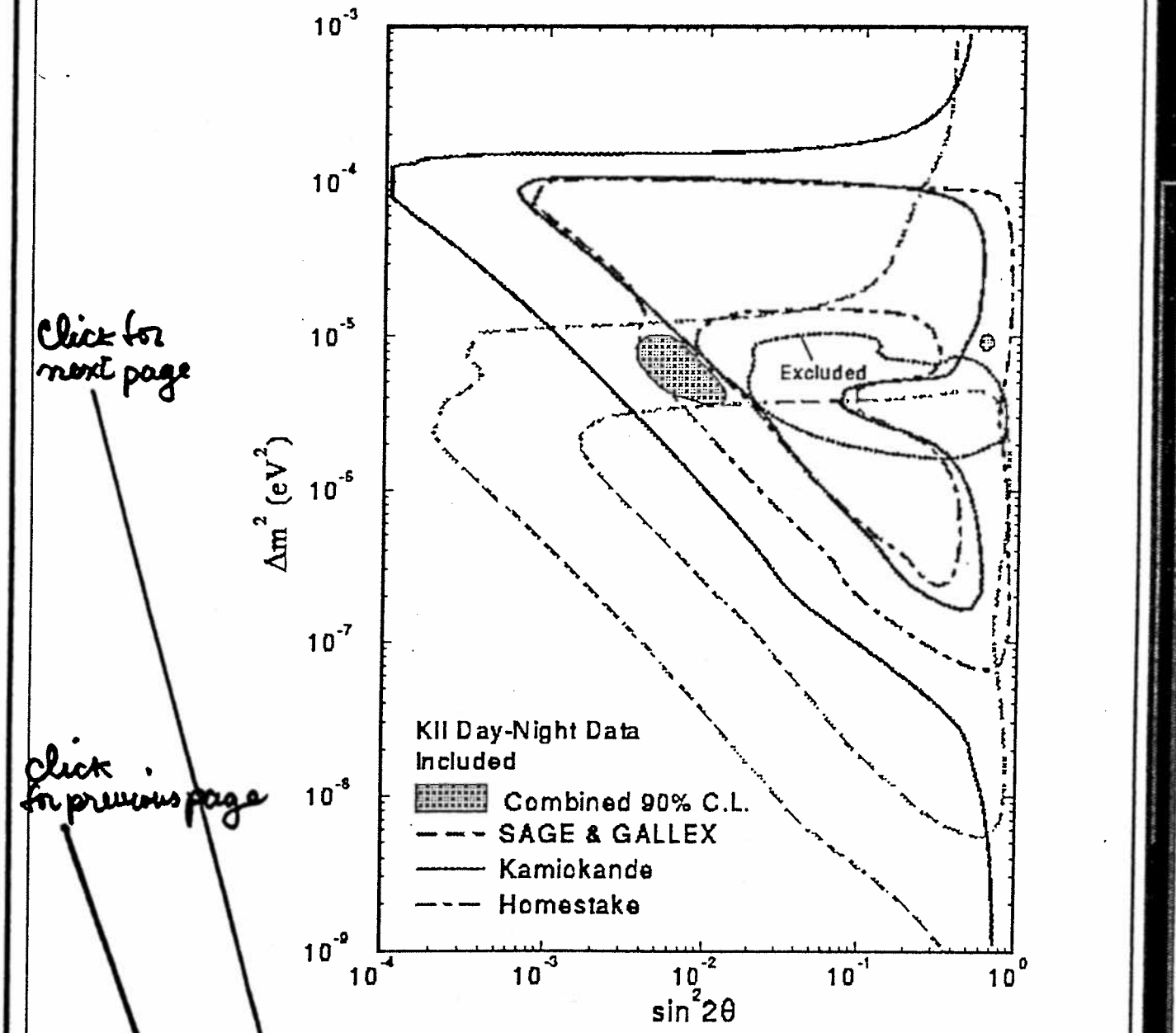
Note

Once in the document you can use the **Next** and **Previous** buttons to go to adjacent pages, and the **Go Back** button to return to this index.

Keyword:

Go Back | Previous | Next | Save... | Clone | Close Window





Click for next page

Click for previous page

EXAMPLE 2:

USING WWW and SPIRES to do a 'citation' search.

Addis, 4/93

File Postscript Navigate Customize Documents Manuals Help

Document: http://slacvm.slac.stanford.edu:5080/FIND/hep

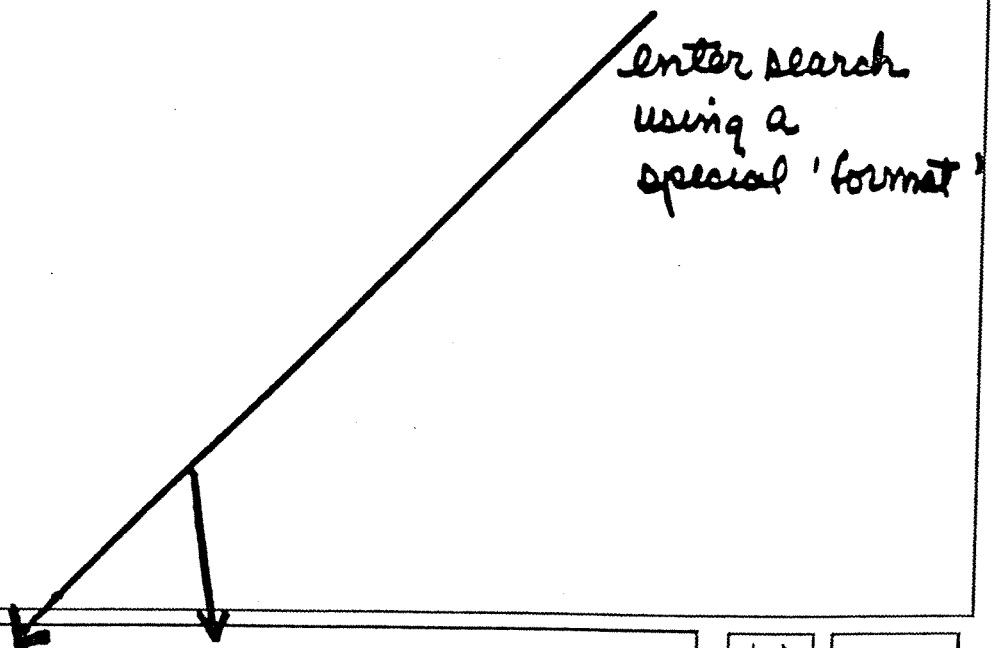
SLAC SPIRES: HEP Preprint database search

Send corrections to: LIBRARY@SLAC.STANFORD.EDU . Use QSPIRES search language (see examples below). Note that there is no possibility for iterative search (yet) in WWW. Therefore, when needed, combine several criteria in a single request. Need more help ? Examples:

```
show indexes
find author perl, m &title tau &date before 1980 (using brief
find bulletin-bd  hepth and date-added 12/92
find cn prefix mark-iii and date after march 1991 (using full
browse coden physics letters
find c phlta, 70b, 487
find a abe &date 1988 (using wwwcite          [shows citations!]
browse affiliation caltech
find af cal tech and date 1992 (result
browse topic higgs
find topic higgs boson or title higgs &date 6-92 (using allkeys
browse last ppf
find ppf 9234 (seq rs using brief
```

To learn more on authors, institutions, or acronyms, try WHOIS, WHEREIS, or WHATIS:

```
whois ginsparg
whereis cern
whatis sld
```



Keyword: FIND AUTHOR GINSPARG (USING WWWCITE

Go Back | Previous | Next | Save... | Clone | Close Window

File Postscript Navigate Customize Documents Manuals Help

Document: http://slacvm.slac.stanford.edu:5080/FIND/hep?find author ginsparg (using wwwcit

Warning: the citation search should be used and interpreted with great care. At present, the source for the citation list in the HEP database is only the preprints received by the SLAC Library, and not the (unpreprinted) journal articles. Citations of a paper during the months it was circulated as a preprint are also lost, because only references to published articles are indexed. Still, the citation index in HEP is formed from an impressive number of sources. For example, in 1992, the citation lists were collected from almost 8,500 preprints.

Click here to see who cited it

43 Documents Found.

1) P. Ginsparg, G. Moore, LECTURES ON 2-D GRAVITY AND 2-D STRING THEORY.
Yale Univ. New Haven - YCTP-P23-92 (92,rec.Apr.93) 197 p.
Los Alamos Nat. Lab. - LA-UR-92-3479 (92,rec.Apr.93) 197 p.
e: LANL hep-th/9304011.

N/A: citation search is available only for journal papers.

2) P. Di Francesco, P. Ginsparg, J. Zinn-Justin, 2-D GRAVITY AND RANDOM MATRICES. LA-UR-93-1722 (Jun 1993) 168p.

N/A: citation search is available only for journal papers.

3) Paul Ginsparg, Fernando Quevedo, STRINGS ON CURVED SPACE-TIMES: BLACK HOLES, TORSION, AND DUALITY.
Nucl.Phys.B385:527-557,1992.

Cited 20 times in the HEP database.

4) P. Ginsparg, MATRIX MODELS OF 2-D GRAVITY. LA-UR-91-9999 -fiche (Dec 1991) 38p.

N/A: citation search is available only for journal papers.

5) P. Ginsparg, J. Zinn- Justin, LARGE ORDER BEHAVIOR OF NONPERTURBATIVE GRAVITY.
Phys. Lett. B255 (1991) 189-196.

Cited 15 times in the HEP database.

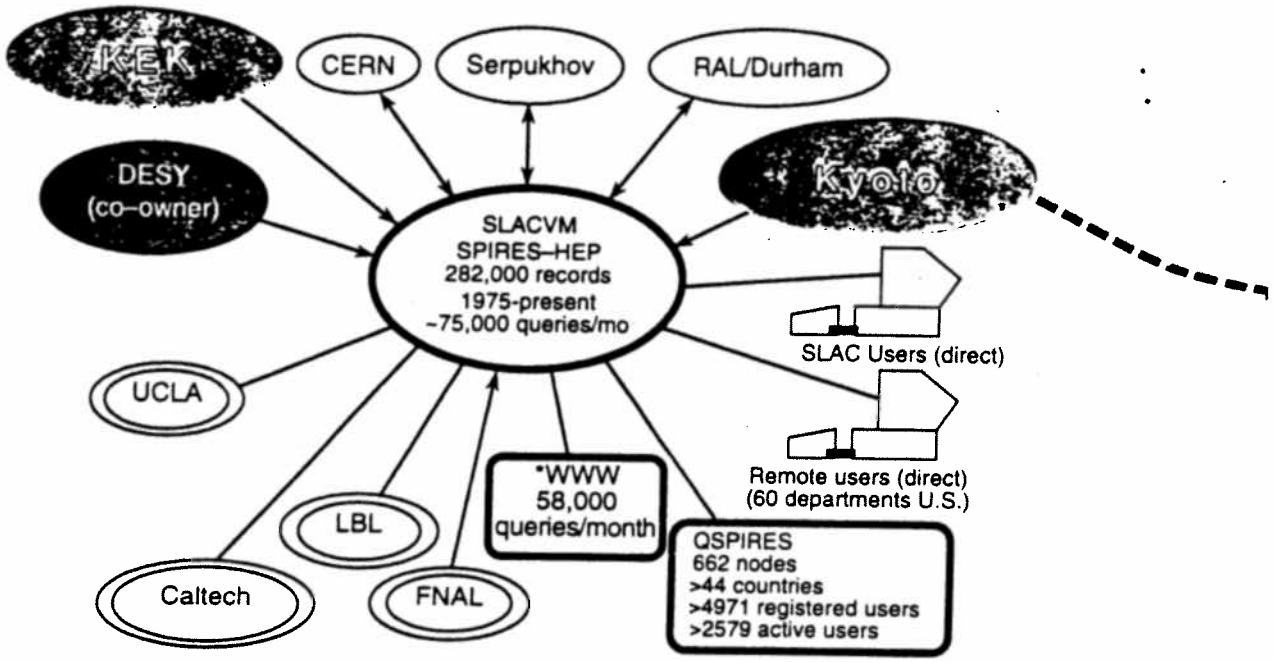
6) P. Ginsparg, J. Zinn-Justin, ACTION PRINCIPLE AND LARGE ORDER BEHAVIOR OF NONPERTURBATIVE GRAVITY

Keyword:

Go Back | Previous | Next | Save... | Clone | Close Window

SLAC – HEP Information Services
June 1994

Today SLAC supports several databases of interest to the HEP community, including the SPIRES–HEP Database, HEPnames Email directory (23K addresses), Conferences, and FreeHEP software tools directory.



Sites which run clone copies of the SLAC HEP database and provide regional HEP information services. SLAC provides nightly updates over the Internet. About 20K new records are added per year.

Sites which use SLAC HEP directly to manage their own document collections.

Sites which regularly download large portions of SLAC HEP for use in regional information services.

Sites which also contribute data to SLAC HEP or provide other database information.

Internet user communities

Login user communities

*WWW = World-wide-web

New in 1994. Point and click links from SPIRES–HEP database to >6000 full-text preprints, including figures and typeset equations, available via X browsers on the World-Wide-Web (WWW).

Future:

– Continued growth of Database (20K records/year)

– Continued WWW GUI development (Midas WWW)

– Continued collaboration with Paul Ginsparg (the originator of electronic bulletin boards), DESY and CERN to streamline and distribute the task of providing full text postscript versions of preprints circulating in the particle physics community – >500/month

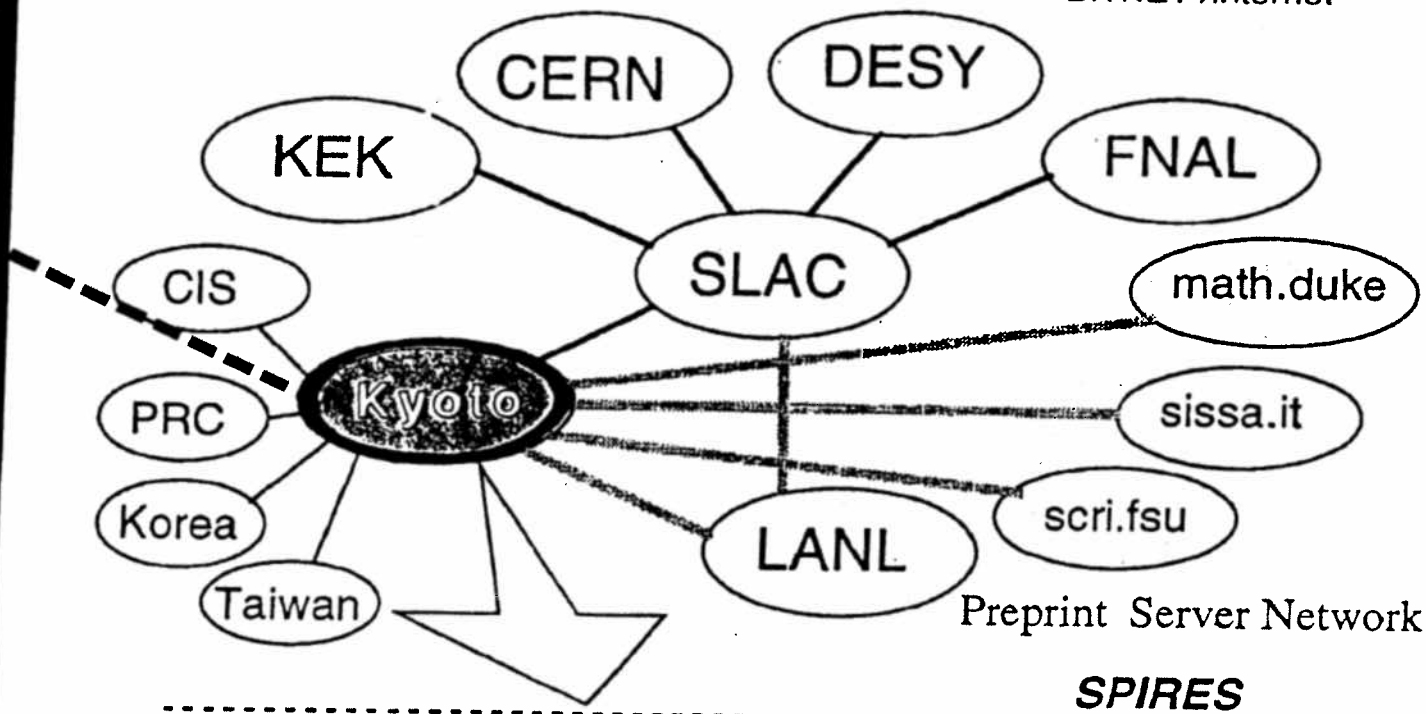
6-94
5060A2

Research Information Network

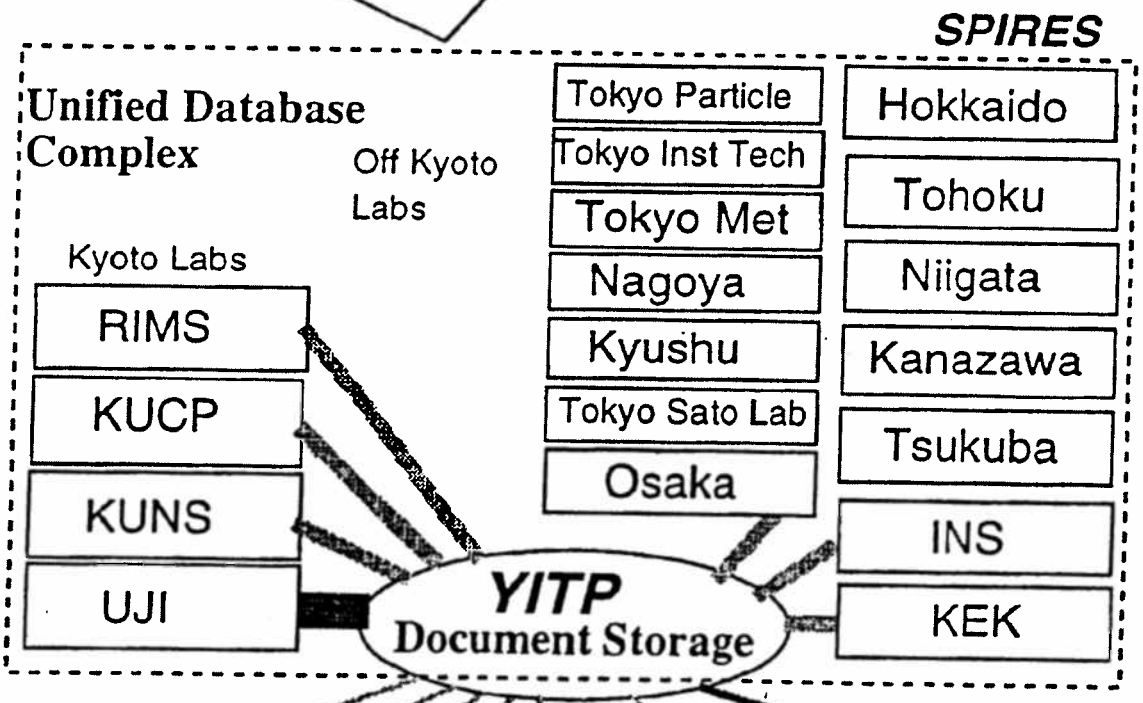
as of Apr 1994

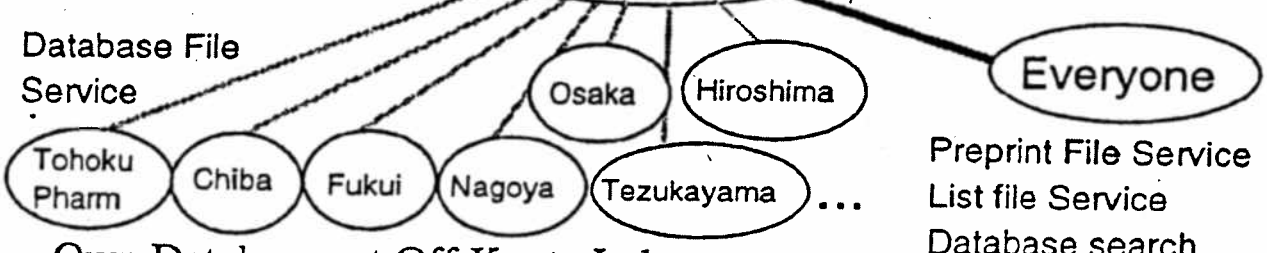
Main Database Network

BITNET /Internet



Preprint Server Network





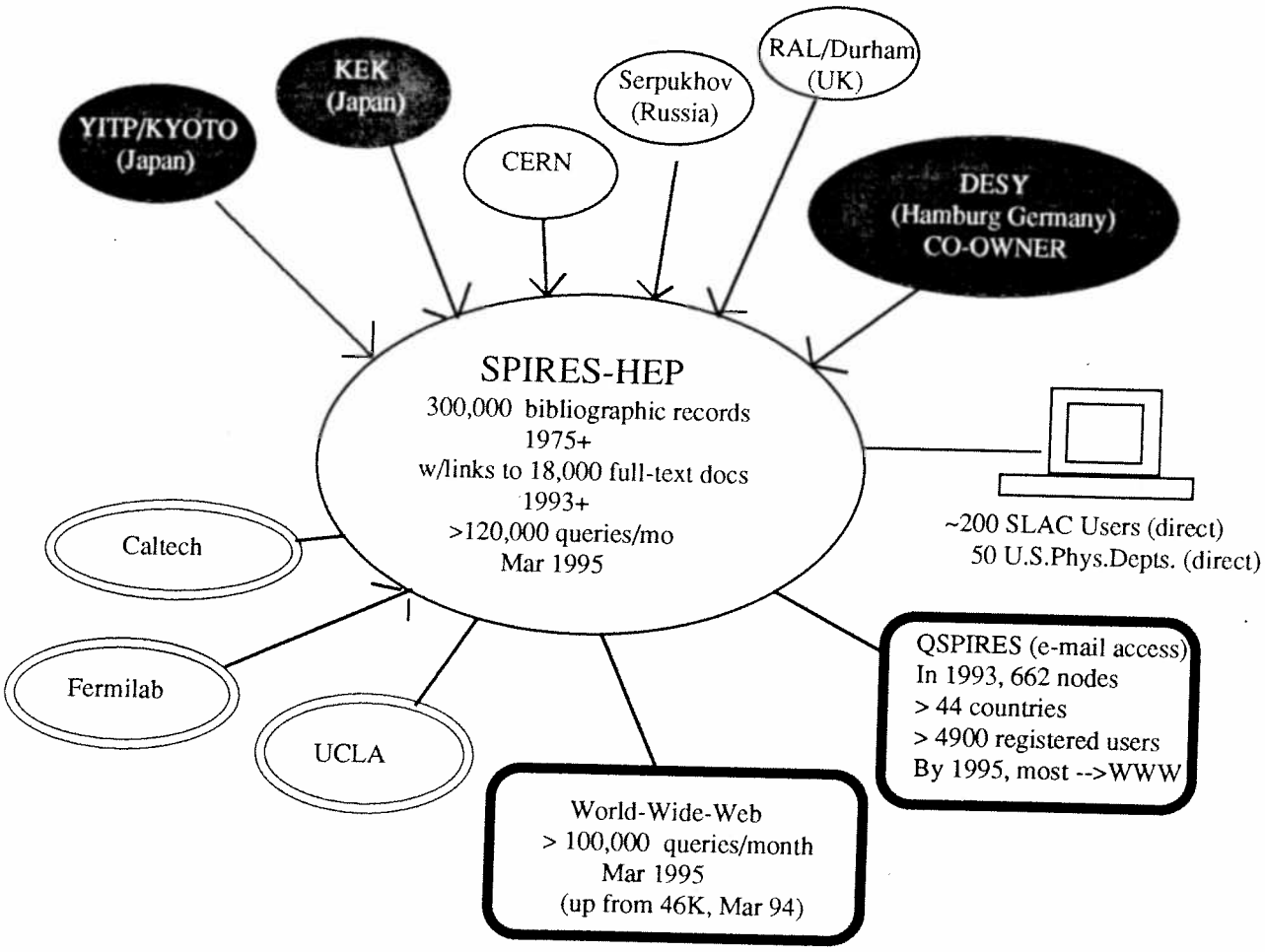
Own Databases at Off Kyoto Labs

Totally 19 direct satellite labs and 7 database links

SLAC - HEP Information Services
April 1995

Today SLAC supports several databases of interest to the HEP community, including SPIRES-HEP, the HEPnames Email directory (24K addresses), Books, Conferences, Experiments (w/PDG), Institutions, andFreeHEP software tools directory.

The following diagram shows participation and usage for the SPIRES-HEP database only.



-Sites which run clone copies of the SLAC HEP database and provide regional HEP information services. SLAC provides nightly updates on the Internet. About 20K new records are added yearly.

-Sites which use SLAC HEP directly to manage their own document collections.

-Sites which regularly download large portions of SLAC HEP for use in regional information services.

-Sites which also contribute data to SLAC HEP or provide other database information

-Internet user communities

-Login user communities

SOME CONSEQUENCES OF THE E-PRINT-WWW REVOLUTION DAILY OPERATIONS OF THE SLAC LIBRARY

1. A steady drop in preprint circulation occurred from 1991 (first year of e-prints) until in 1995, the library ceased shelving paper copies of e-prints.

Mo/Yr	Preprints Circulated
March 1991 -	783
March 1992	438
March 1993	356
March 1994	190
March 1995	73

This results in redirection of some staff effort and less pressure on shelf space. An old measure of library effectiveness bits the dust!

2. New higher volume postscript printer had to be purchased. Most physicists still want it on paper if they're seriously interested in a preprint.

3. More public X-terminals were and are needed. Not everyone has a high quality X-terminal on his/her desk for viewing compressed postscript.

4. It is now 'impossible' to lose an e-print. Users have immediate access to the papers they need (no recalls necessary) and the library conducts fewer raids on known packrats.

5. More staff time is spent checking quality of the posted papers and troubleshooting TeX, bad figures, etc. and corresponding with authors.

6. Input to the HEP database is somewhat eased by the automated extraction of citation lists from the TeX originals (or at least the citations are more accurately input). Still is not practical to extract bibliographic information from the e-prints due to lack of standards.

7. The Library dropped paper publication of its 25 year old preprint list (PPF) and started distributing it via listserv and WWW. When you don't put out paper lists, you have to work harder to ensure that everyone knows how to get your information and has access.

8. Preprint acquisition by mail is no longer a major effort. Instead, there is considerable effort expended in cruising various laboratory postscript servers to obtain newly posted papers, enter them in the HEP database with their correct URL's Not all papers are posted to the e-print archives and a growing trend seems to be for organizations to control their own postscript.

9. The library staff works in an environment which is changing even more rapidly than usual. Much retraining has to take place, mostly informally. Fortunately, they're flexible, smart and learning more about chaos theory every day.

CONVERTING E-PRINT TeX PAPERS TO VIEWABLE POSTSCRIPT

March 1995

* Each night papers submitted to the e-print archives (hep-acc, hep-ex, hep-lat, hep-ph, hep-th, gr-qc, nucl-th, and astro-ph) are downloaded at SLAC and automatically TeXed** to produce postscript output. Currently about 700 papers per month are received in this way.

* Papers that fail the automatic TeX process (about 40%) are manually processed the next day.

* All papers are tested for viewability on the Web and printability.

* Authors are contacted by the SLAC library staff and asked to provide figures (either as Postscript or by fax). Faxed figures are converted to postscript at SLAC and posted as separate ps.Z files..

* Input to the SPIRES-HEP citation index is also extracted from the TeX source during the automatic processing and stored for use by the inputters during the cataloging process.

* Postscript documents are stored at SLAC and made available through FTP and HTTP (WWW).

* Postscript documents are linked to bibliographic records in the SLAC SPIRES-HEP database.

RESULT - Using SPIRES-HEP via WWW, physicists can now not only look up papers in a consistently structured database, but also read and/or print many of these papers from their desktops.

** The automatic TeX system was developed by Paul Mende at Brown U.

Desktop Access to HEP Preprints via WWW & SPIRES at SLAC

Providing Full-Text Preprints and Journal Articles to the Particle Physics Community on the Internet

Louise Addis
Stanford Linear Accelerator Center*
addis@slac.stanford.edu

Presented at the *Astronomical Data and Software Systems (ADASS)*
Electronic Preprint Distribution Systems Workshop
Baltimore, Md.

29 September 1994

* Supported by the U.S. Dept. of Energy, Contract DE-AC03-76SFO-0515

World-Wide-Web Demo: Information Sheet

September 29, 1994

L. Addis, SLAC

1. For more information about the WWW software, telnet to ~~info.cern.ch~~ telnet. w3.org (no password). (a complete list of browsers)
2. For more information about the WWW SPIRES connection, e-mail to H. Galic **(hep@slac.stanford.edu)**.
3. To link to the SLAC SPIRES home page from your WWW browser, open URL

   http://www-~~spires~~.slac.stanford.edu:~~80~~/FIND/spires.html
4. To link to the general SLAC home page, use:

   http://www-~~slac~~.slac.stanford.edu:~~80~~/FIND/slac.html
5. To try out our experimental forms-based SPIRES-HEP search, use:

   http://www-spires.slac.stanford.edu:5080/FIND/hep_form.html
6. To be completely successful, you'll need a browser which can cope with compressed postscript (ps.Z) .The most popular such browser is NCSA's Mosaic for X. It can be obtained by anonymous FTP from

   ftp.ncsa.uiuc.edu in directory **/Mosaic**.
7. Or you might want to try the new version of MidasWWW, the browser pictured in these pages, available via FTP from: (version 2.1)

   freehep.scri.fsu.edu
   in directory **/freehep/networking_email_news/midaswww**
   (includes source code as well as executables for aix, sun4, hpux, osf, sgi and VMS.)

   MidasWWW is especially well suited for database index searching since the entire search statement is easily visible and the search area is always present and active at the bottom of the page no matter where the scroll bar has been pulled.

CONVERTING E-PRINT TeX PAPERS TO VIEWABLE POSTSCRIPT
September 1994

* Each night papers submitted to the e-print archives (hep-ex, hep-lat, hep-ph, hep-th, gr-qc, nucl-th, and astro-ph) are downloaded at SLAC and automatically TeXed** to produce postscript output. Currently about 600 papers per month are received in this way.

* Papers that fail the automatic TeX process (about 45%) are manually processed the next day.

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** The automatic TeX system was developed by Paul Mende at Brown U.

SEARCH EXAMPLES

The following search examples illustrate a few of the features and power of the WWW/SPIRES-HEP combination.

Full-text, including figures and equations, is viewable for over 13,000 preprints which have appeared on physics e-print archives or which are stored on postscript servers at various laboratories. The full text files (ps.Z) are linked to the SPIRES HEP database so that users may search by author, title, etc. and then view or print the entire preprint.

A warning: the 'look' of our WWW interface changes frequently as we try to improve the usability so examples may not always exactly match what you see on the screen.

Example 1 - Search by author, leads to viewing a paper with color postscript figures **

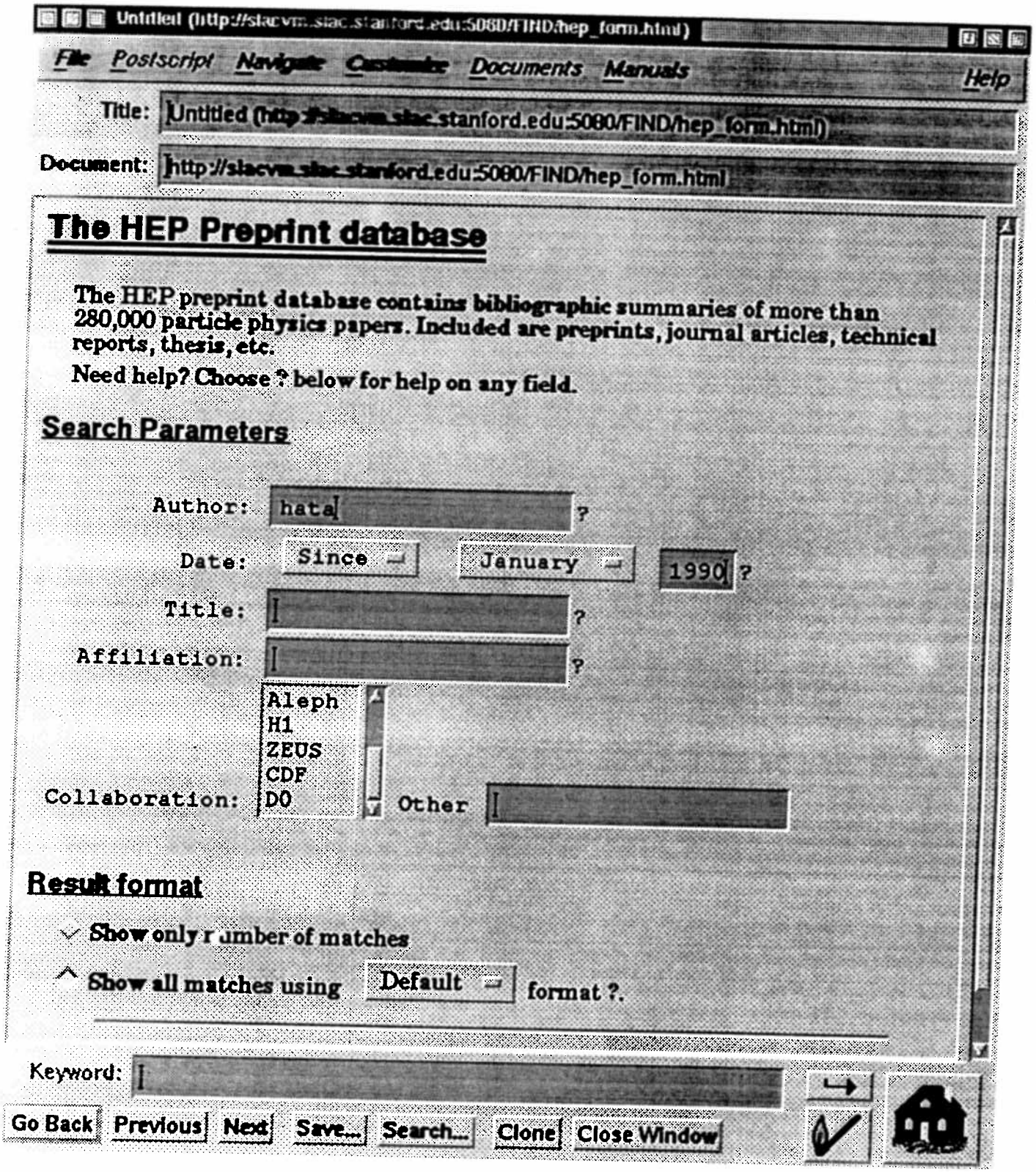
Example 2 - Check Astro-ph eprint archive for the last seven days

Example 3 - Find recent papers in Nuclear Physics (journal)

Example 4 - Citation search

Example 5 -. Electronic version of new preprint list with access to full text

** Only example 1 is included in printed handouts to keep the no. of pages within reason.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Title: Untitled (http://slacvm.slac.stanford.edu:5080/FIND/hep_form.html)
Document: http://slacvm.slac.stanford.edu:5080/FIND/hep_form.html
The HEP Preprint database
The HEP preprint database contains bibliographic summaries of more than 280,000 particle physics papers. Included are preprints, journal articles, technical reports, thesis, etc.
Need help? Choose ? below for help on any field.
Search Parameters
Author: hata ?
Date: Since January 1990 ?
Title: ?
Affiliation: ?
Aleph
H1
ZEUS
CDF
D0
Collaboration:
Other
Result format
Show only number of matches
Show all matches using Default format ?.
Keyword:
Go Back
Previous
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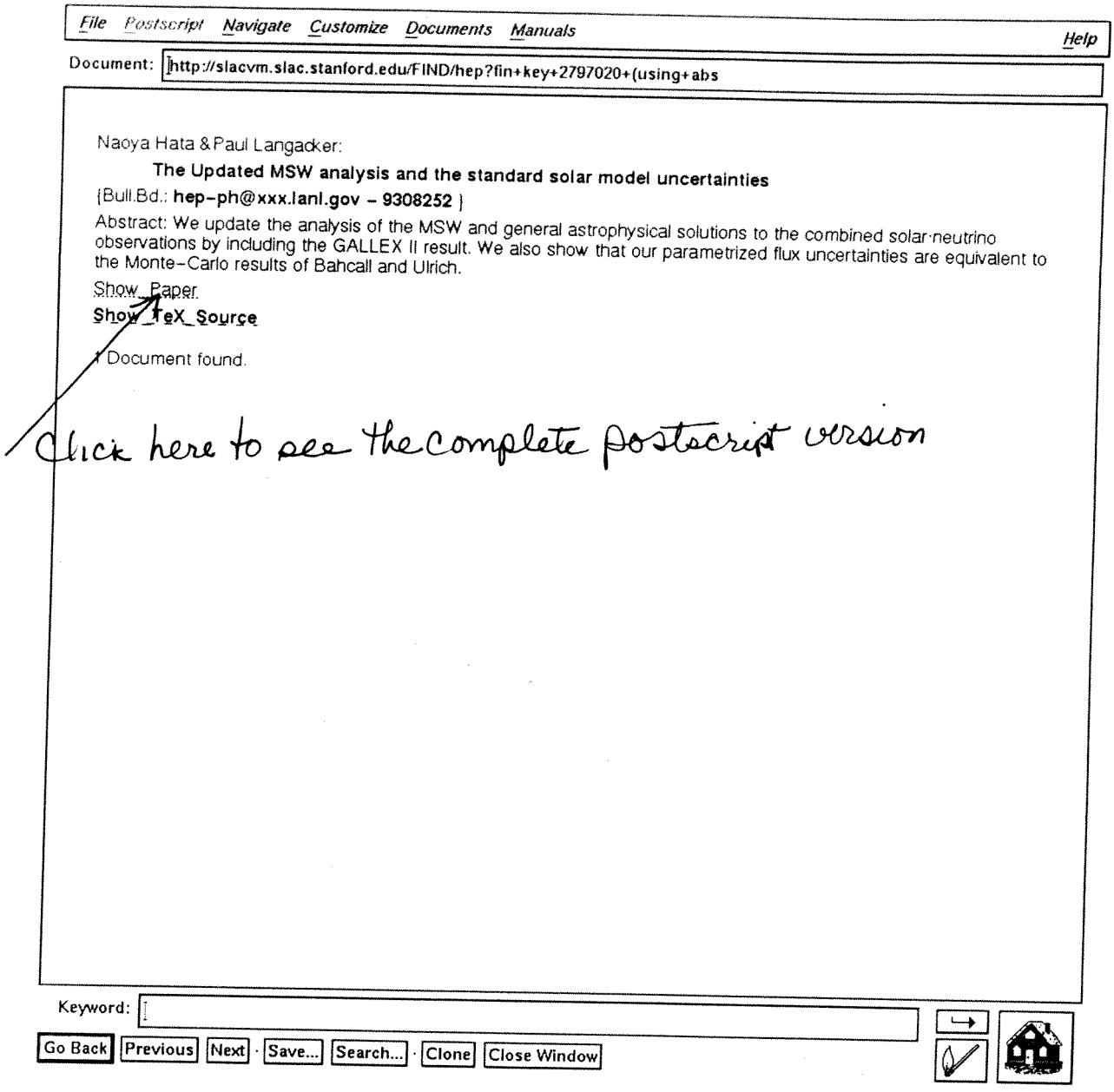

File Postscript Navigate Customize Documents Manuals Help
Document: http://slacvm.slac.stanford.edu/FIND/hep?fin+key+2797020+(using+abs
Naoya Hata & Paul Langacker:
The Updated MSW analysis and the standard solar model uncertainties
(Bull.Bd.: hep-ph@xxx.lanl.gov – 9308252)
Abstract: We update the analysis of the MSW and general astrophysical solutions to the combined solar-neutrino observations by including the GALLEX II result. We also show that our parametrized flux uncertainties are equivalent to the Monte-Carlo results of Bahcall and Ulrich.
Show_Paper
Show_TeX_Source
1 Document found.
Click here to see the complete postscript version
Keyword:
Go Back
Previous
Next
Save...
Search...
Clone
Close Window

The Updated MSW Analysis and the Standard Solar Model Uncertainties *

Naoya Hata and Paul Langacker

Department of Physics, University of Pennsylvania, Philadelphia, PA 19104

(August 5, 1993, UPR-0581T)

Abstract

We update the analysis of the MSW and general astrophysical solutions to the combined solar neutrino observations by including the GALLEX II result. We also show that our parametrised flux uncertainties are equivalent to the Monte-Carlo results of Bahcall and Ulrich.

BRIEF AND BIASED HISTORY OF PREPRINT AND DATABASE ACTIVITIES AT THE SLAC LIBRARY 1962-1994

1962 - SLAC Library begins with the charge from Director W.K.H. Panofsky to actively and promptly acquire preprints in high energy physics, catalog preprints fully (and promptly), and include every author no matter how many there are. Library starts with several boxes of CERN reports donated by kindly physicists.

1969-70 - Computers become more powerful and development begins at Stanford University of what eventually became the SPIRES DBMS with the SLAC Library as a primary test site.

1969 - The APS Division of Particles and Fields and the AEC sponsor community-wide distribution of SLAC's weekly list of new preprints, *Preprints in Particles and Fields*. (PPF) Hundreds of physicists pay an annual subscription fee to get PPF weekly by airmail. Those in faraway places often complain that they can't actually get copies of the preprints on the list or that they come very late (PPF continues hardcopy publication until Fall 1993.)

Dubious and hostile journal editors are mollified by a PPF section called *Anti-preprints*, which lists journal references for recently published preprints.

SLAC Library systematically looks for publication information for preprints, discards published preprints, annotates its card catalog with journal references.

1970's - We are told that full-text databases are just around the corner and that soon we will not need books.

1974 - The SPIRES-HEP (High-Energy-Physics) database begins. Best estimates predict a steady state not larger than 5000 bibliographic records.

SLAC now annotates the bibliographic records in the HEP database with publication information (as well as its card catalog) and continues to trash dead preprints.

The SLAC and DESY Libraries team up to jointly create the HEP database (a collaboration which continues to this day). DESY contributes physicist-assigned TOPIC indexing and bibliographic records for articles which were never preprinted

1975 - An average of 70 preprints/week arrive in the SLAC Library.

1979 - Donald Knuth at Stanford publishes a description of his new text formatting system called TeX. It provides a way to get high quality mathematical text using simple ASCII characters as input.

early 80's - More and more physicists ask to continue their computer accounts when they leave SLAC so that they can consult SPIRES from their new home institutions.

1980 - An average of 97 preprints/week arrive in the SLAC Library

1982 - SLAC Library becomes first library at Stanford to throw out its card catalog.

1992 - As we learn how to use the features of WWW, we start linking bulletin board preprints to their TeX source on the servers at Los Alamos. This isn't really full-text but it's a lot better than nothing. SPIRES creates the html dynamically and presents it to the W3 server.

More bulletin boards appear. astro-ph, hep-ph, hep-lat, gr-qc, nucl-th.and the TeX burden increases.

QSPIRES users are encouraged to change to WWW and some do..

1992- Tony Johnson, a physicist with the SLAC-SLD experiment, releases the MidasWWW browser for X. It allows viewing of postscript files on the Web and even handles compressed postscript.

Spring-93 - The SLAC Library acquires a NeXT and a 1.3 gigabyte disk and starts to take the 'next' step by converting the TeX DVI files to postscript using the DVIPS program on Unix. The files are then compressed and stored on a WWW server disk. Figures are requested by e-mail from authors, faxed to our NextFAX, converted to EPS format and posted with the basic text on the SLAC postscript server (preprint.slac.stanford.edu).

SPIRES-HEP can now be searched using the MidasWWW browser on an X-terminal and the genuine full-text complete with equations and often figures can be displayed or printed.

June 1993 - The full text service is made public.

1993 - A new X browser called Mosaic is released by NCSA. It has many of the features of MidasWWW and the full support of a large organization. With the availability of Mosaic, Web use starts to gain momentum.

Aug 1993 - SPIRES-HEP now receives about 38,000 queries/month. Of these, 15,000 are thru WWW.

Dec 1993 - SPIRES-HEP averages 178 new preprints each week and more than 20,000 new records are added in 1993 (remember that HEP isn't just preprints!).

Jan 1994- Paul Mende of Brown University gives us a present of his automatic texing program and installs it for us on our own system. With some tuning and additional scripts, the whole process of ftping tex source from various e-print archives and trying to tex them and update the tracking and abstracts database is automated. Eventually it handles about 55% of all the e-print papers completely. We still, however, must carefully check each one for viewability and printability and manually deal with the remaining 45%..

DESY and CERN give us a hand with TeX to postscript, but with the advent of automatic processing distributed texing becomes less effective.

1994 - Additional features are added to the SPIRES-HEP service thru WWW. It is now possible to see who has cited any of an author's papers and go directly to the full-text if the citing paper appeared on a bulletin board (now called the politically correct 'e-print archives').

Lou[illegible]. High Energy Physics & Print: [illegible] [illegible] for Scholarly [illegible]tion. 10/15/1994.

High-Energy Physics E-Prints: New Models for Scholarly Communication

by

Patricia A. Kreitz, Louise Addis, Tony Johnson, and Hrvoje Galic

with the assistance of

Annette Holtkamp

Current Thinking Panel
APS E-Print Workshop
Los Alamos National Laboratory
October 15, 1994

High-Energy Physics E-Prints: new models for scholarly communication

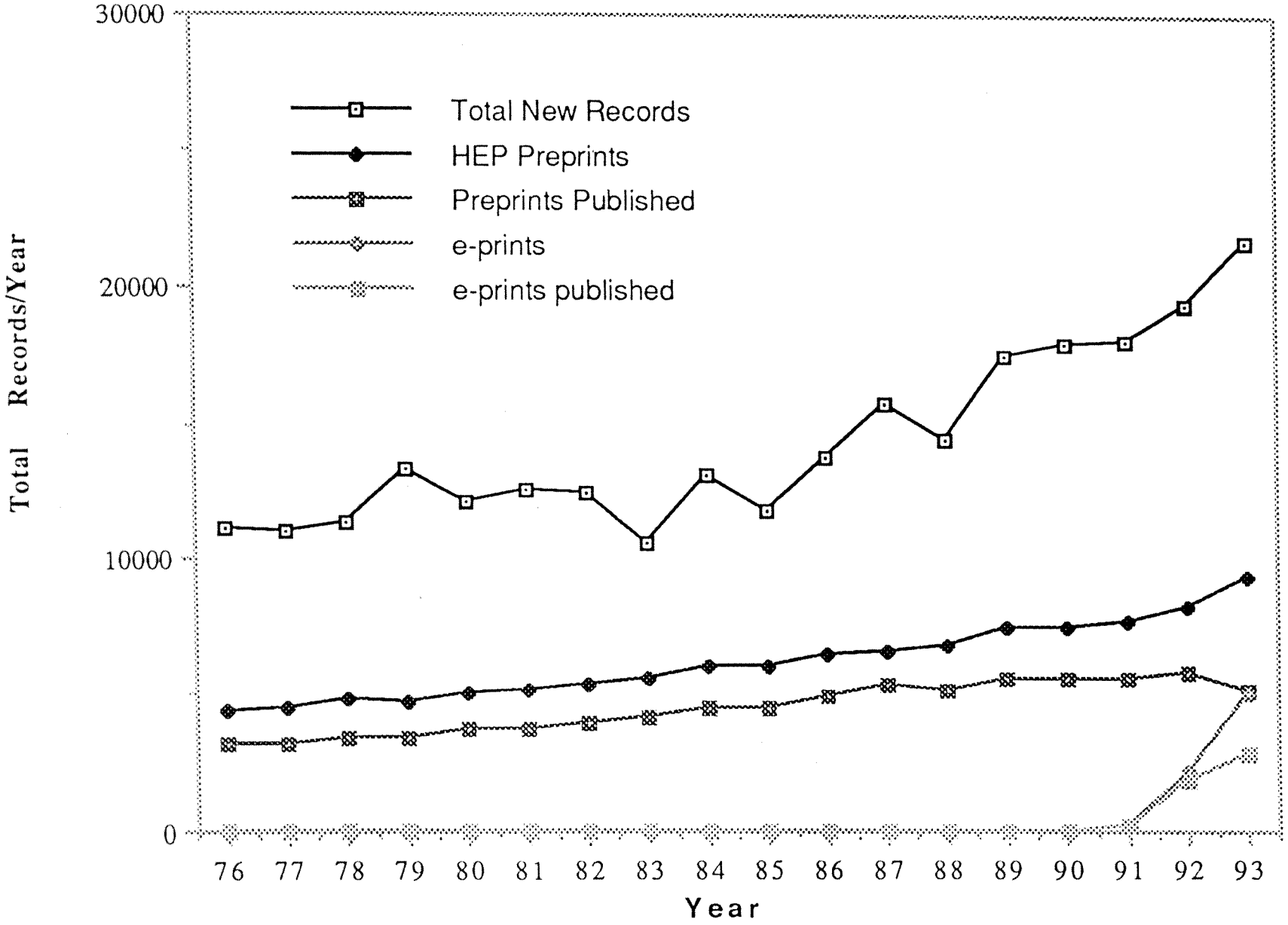
- Overview of Preprint/E-Prints in Particle Physics
- New ways of connecting HEP information
- Problems from the trenches

SPIRES-HEP DATABASE STATISTICS

showing publication data for particle physics preprints

1976-1993

(Revised 10/94)



World-Wide-Web Demo: SPIRES-HEP Information Sheet
Oct. 1994

SLAC Library

The SPIRES-HEP database is the largest of an array of databases maintained at SLAC, which are of interest to the particle physics community. It is a joint project of the SLAC and DESY libraries with participation from Fermilab, LBL, KEK, Kyoto, CERN, Serpukhov and others. It is accessible over the Internet via the World-Wide-Web (WWW).

No. of records: 292,000, expands by 20,000/year.

No. of searches: 83,000/mo. as of Sep. 1994.

User Community: World-wide. At last count, users came from 44 different countries.

Coverage: 1974-present, theoretical and experimental particle physics and associated technologies. Includes preprints, reports, conference papers, theses and journal articles with special emphasis on timely (today's preprints today) presentation of preprint and e-print information with links to postscript or other full-text where available. All authors are included and indexed, no matter how numerous. Preprint records are annotated with publication information as soon as possible.

Full-Text: 13,000+ direct links to full-text of preprints and journal articles such as those in Nuclear Physics. Users with X browsers can not only search, but can actually view and print many papers without leaving the office.

Search: Full Boolean search on all authors, title words, institutions, topics, experiments, collaboration names, journal, citation.

An experimental WWW forms interface is available to help newcomers get started.

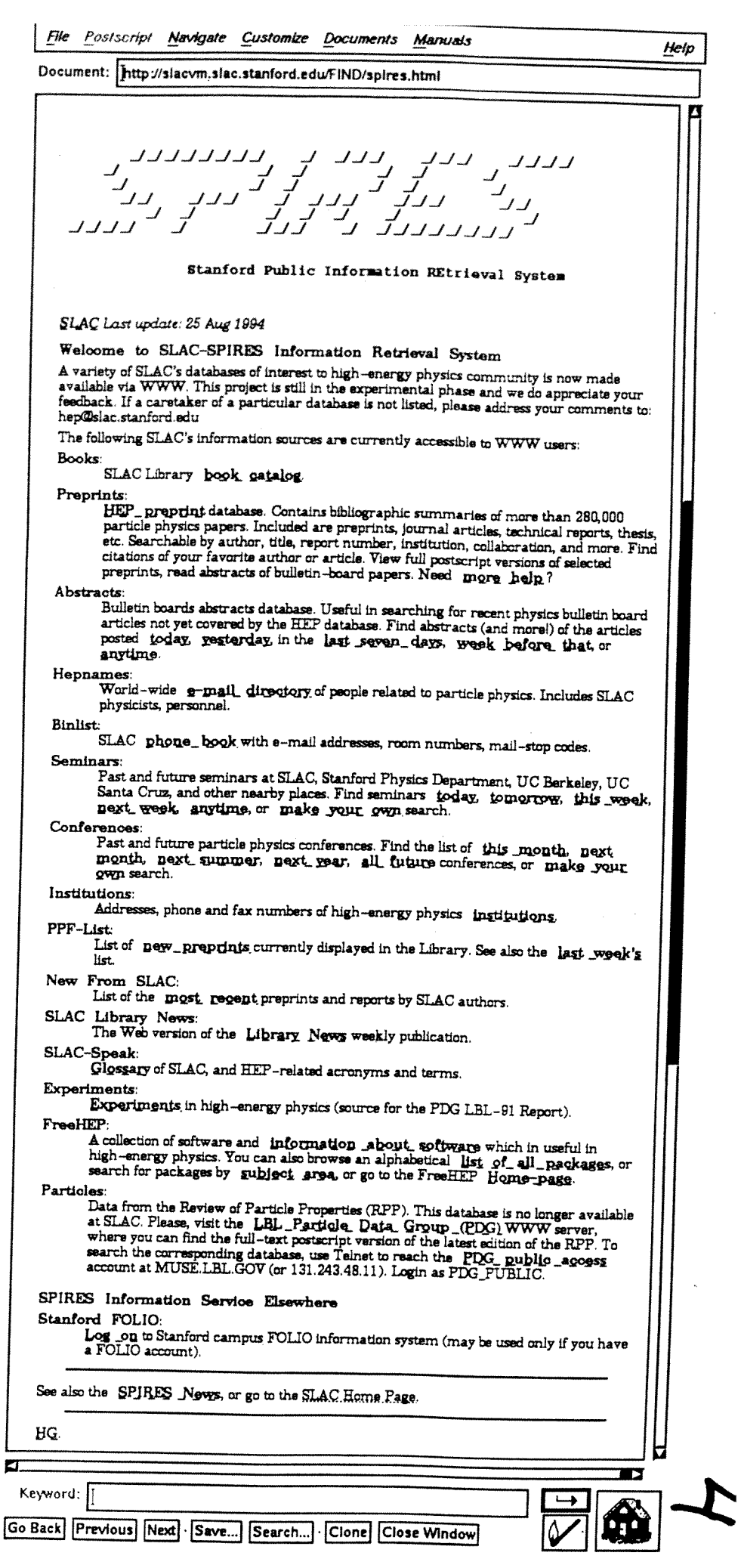
Special Features: Hot links from reference lists to actual papers referenced. Hot links to lists of 'citing' papers.

URL: http://www-spires.slac.stanford.edu:80/FIND/spires.html

Further Information: e-mail to H. Galic, HEP@slacvm.slac.stanford.edu

SPIRES/ SLAC Home Page

provides convenient access to full text E-Prints



File Postscript Navigate Customize Documents Manuals Help

Document: http://slacvm.slac.stanford.edu/FIND/spires.html

Stanford Public Information REtrieval System

SLAC Last update: 25 Aug 1994

Welcome to SLAC-SPIRES Information Retrieval System

A variety of SLAC's databases of interest to high-energy physics community is now made available via WWW. This project is still in the experimental phase and we do appreciate your feedback. If a caretaker of a particular database is not listed, please address your comments to: hep@slac.stanford.edu

The following SLAC's information sources are currently accessible to WWW users:

Books:
SLAC Library book catalog.

Preprints:
HEP preprint database. Contains bibliographic summaries of more than 280,000 particle physics papers. Included are preprints, journal articles, technical reports, thesis, etc. Searchable by author, title, report number, institution, collaboration, and more. Find citations of your favorite author or article. View full postscript versions of selected preprints, read abstracts of bulletin-board papers. Need more help?

Abstracts:
Bulletin boards abstracts database. Useful in searching for recent physics bulletin board articles not yet covered by the HEP database. Find abstracts (and more!) of the articles posted today, yesterday, in the last seven days, week before that, or anytime.

Hepnames:
World-wide e-mail directory of people related to particle physics. Includes SLAC physicists, personnel.

Binlist:
SLAC phone book with e-mail addresses, room numbers, mail-stop codes.

Seminars:
Past and future seminars at SLAC, Stanford Physics Department, UC Berkeley, UC Santa Cruz, and other nearby places. Find seminars today, tomorrow, this week, next week, anytime, or make your own search.

Conferences:
Past and future particle physics conferences. Find the list of this month, next month, next summer, next year, all future conferences, or make your own search.

Institutions:
Addresses, phone and fax numbers of high-energy physics institutions.

PPF-List:
List of new preprints currently displayed in the Library. See also the last week's list.

New From SLAC:
List of the most recent preprints and reports by SLAC authors.

SLAC Library News:
The Web version of the Library News weekly publication.

SLAC-Speak:
Glossary of SLAC, and HEP-related acronyms and terms.

Experiments:
Experiments in high-energy physics (source for the PDG LBL-91 Report).

FreeHEP:
A collection of software and information about software which in useful in high-energy physics. You can also browse an alphabetical list of all packages, or search for packages by subject area, or go to the FreeHEP Home-page.

Particles:
Data from the Review of Particle Properties (RPP). This database is no longer available at SLAC. Please, visit the LBL Particle Data Group (PDG) WWW server, where you can find the full-text postscript version of the latest edition of the RPP. To search the corresponding database, use Telnet to reach the PDG public access account at MUSE.LBL.GOV (or 131.243.48.11). Login as PDG_PUBLIC.

SPIRES Information Service Elsewhere

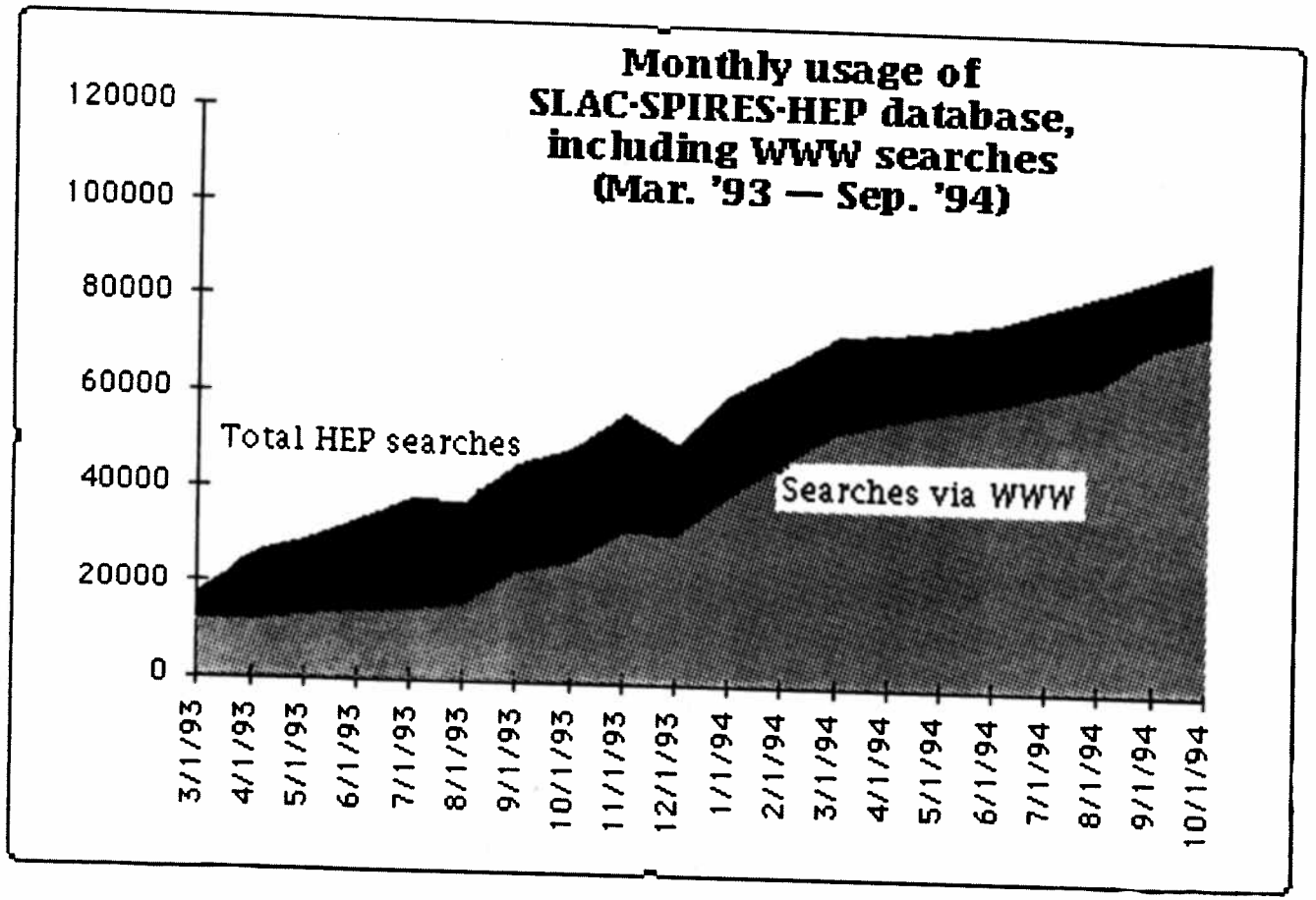
Stanford FOLIO:
Log on to Stanford campus FOLIO information system (may be used only if you have a FOLIO account).

See also the SPIRES News, or go to the SLAC Home Page.

HG.

Keyword:

Go Back | Previous | Next | Save... | Search... | Clone | Close Window


Monthly usage of
SLAC-SPIRES-HEP database,
including WWW searches
(Mar. '93 — Sep. '94)
120000
100000
80000
60000
40000
20000
0
Total HEP searches
Searches via WWW
3/1/93
4/1/93
5/1/93
6/1/93
7/1/93
8/1/93
9/1/93
10/1/93
11/1/93
12/1/93
1/1/94
2/1/94
3/1/94
4/1/94
5/1/94
6/1/94
7/1/94
8/1/94
9/1/94
10/1/94

Connecting HEP information: old models or new relationships?

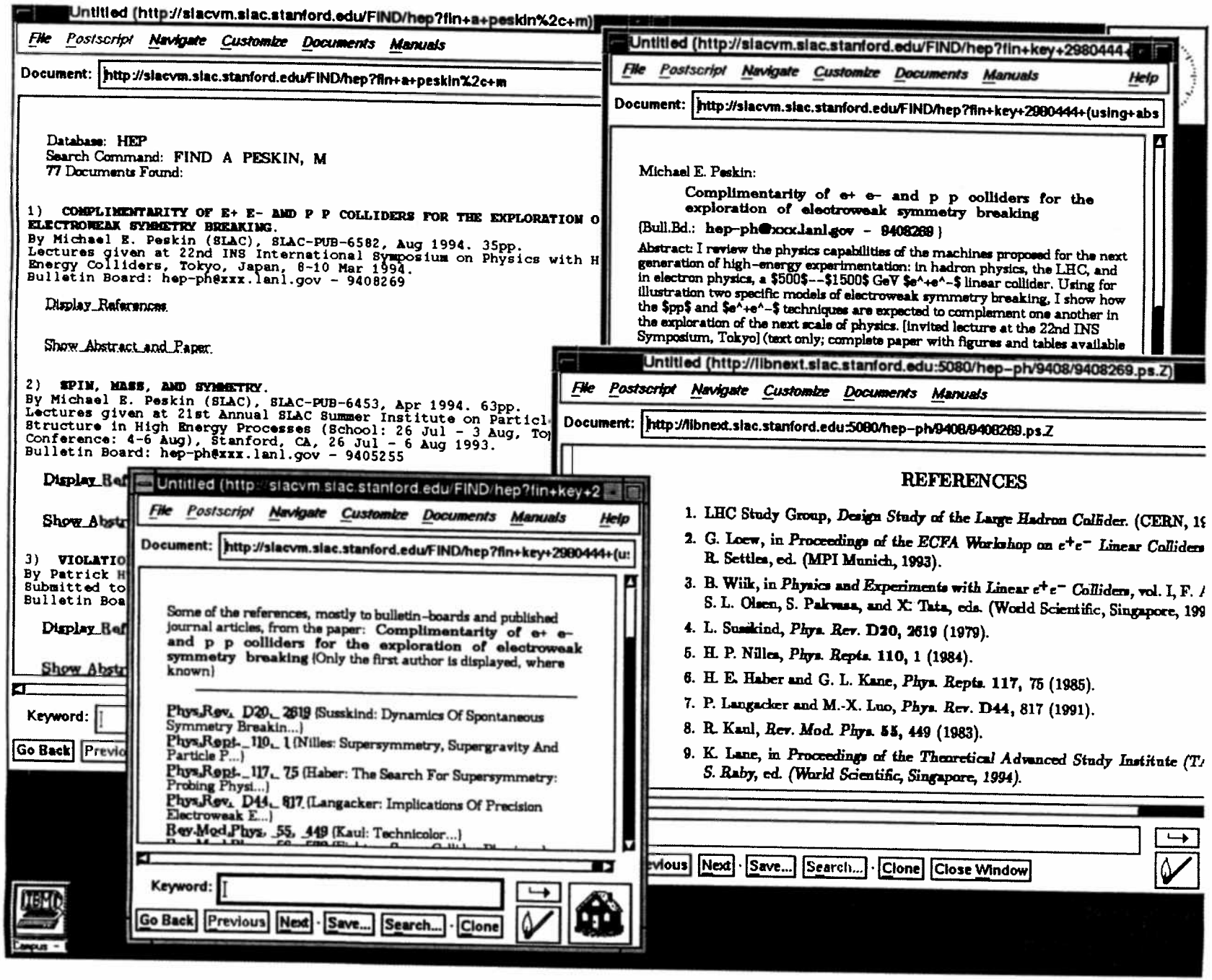
Scholarly work is built on:

- Experimental data
- Prior scholarship
- Computer analysis/ modeling
- Technical apparatus
- Individual or collective creativity

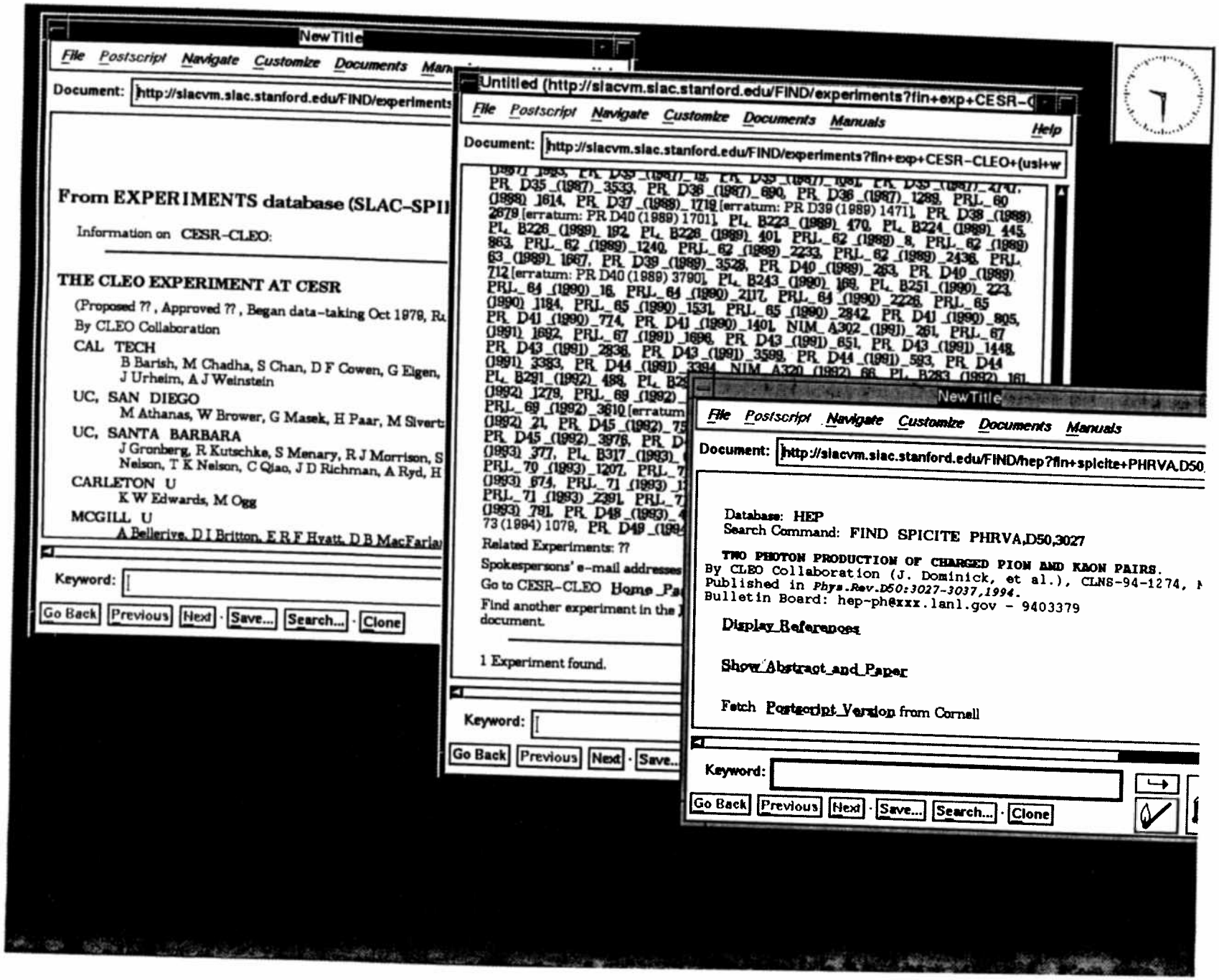
Value is determined through:

- Journal acceptance
- Secondary analysis (scholarly reviews)
- Communication network
- Subsequent research
- Citation/use patterns

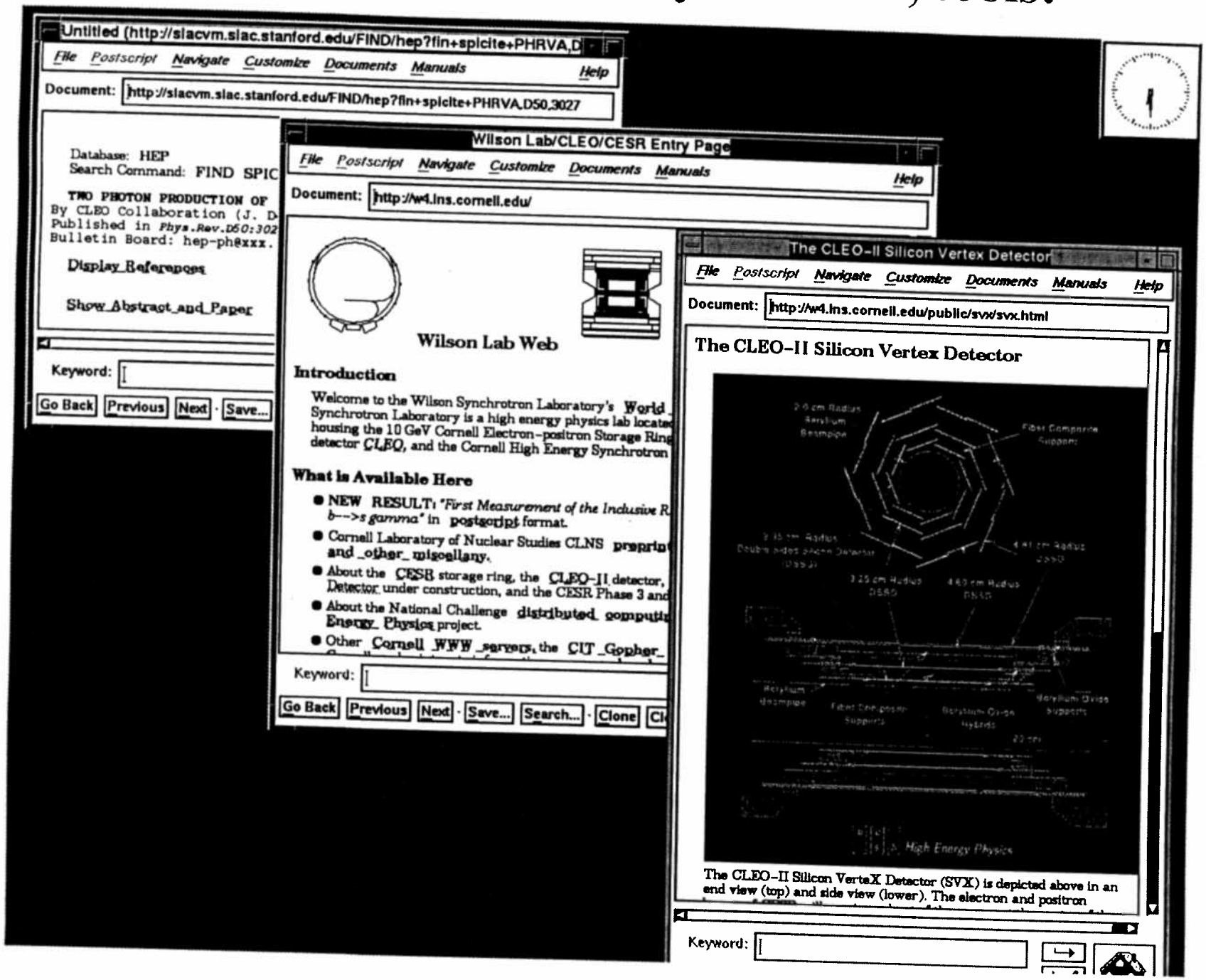
E-Preprints connect thought in new ways:



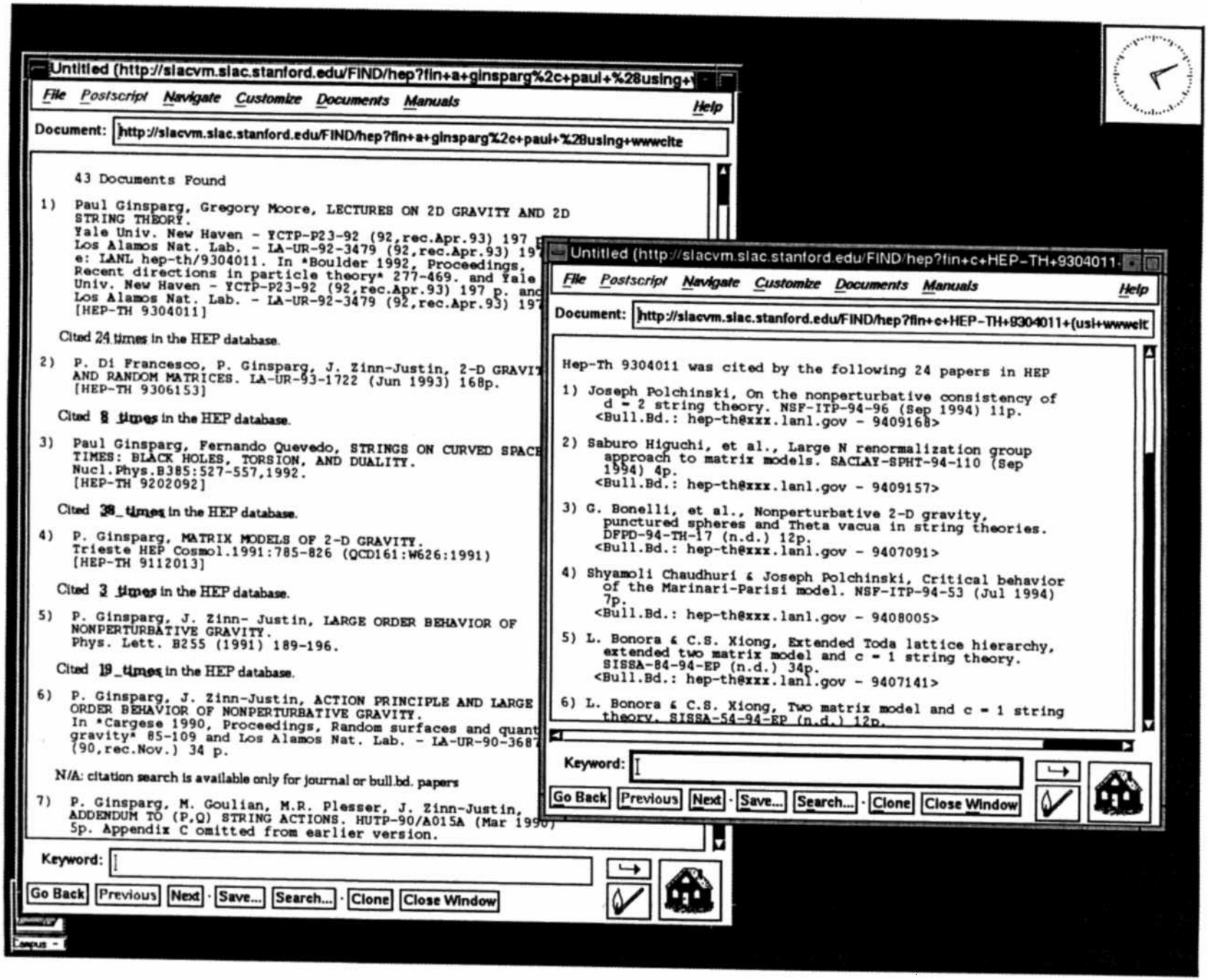
History of a research effort can be interlinked:



Links can be made to primary material, tools:



Use & retrieval patterns are more easily analyzed:

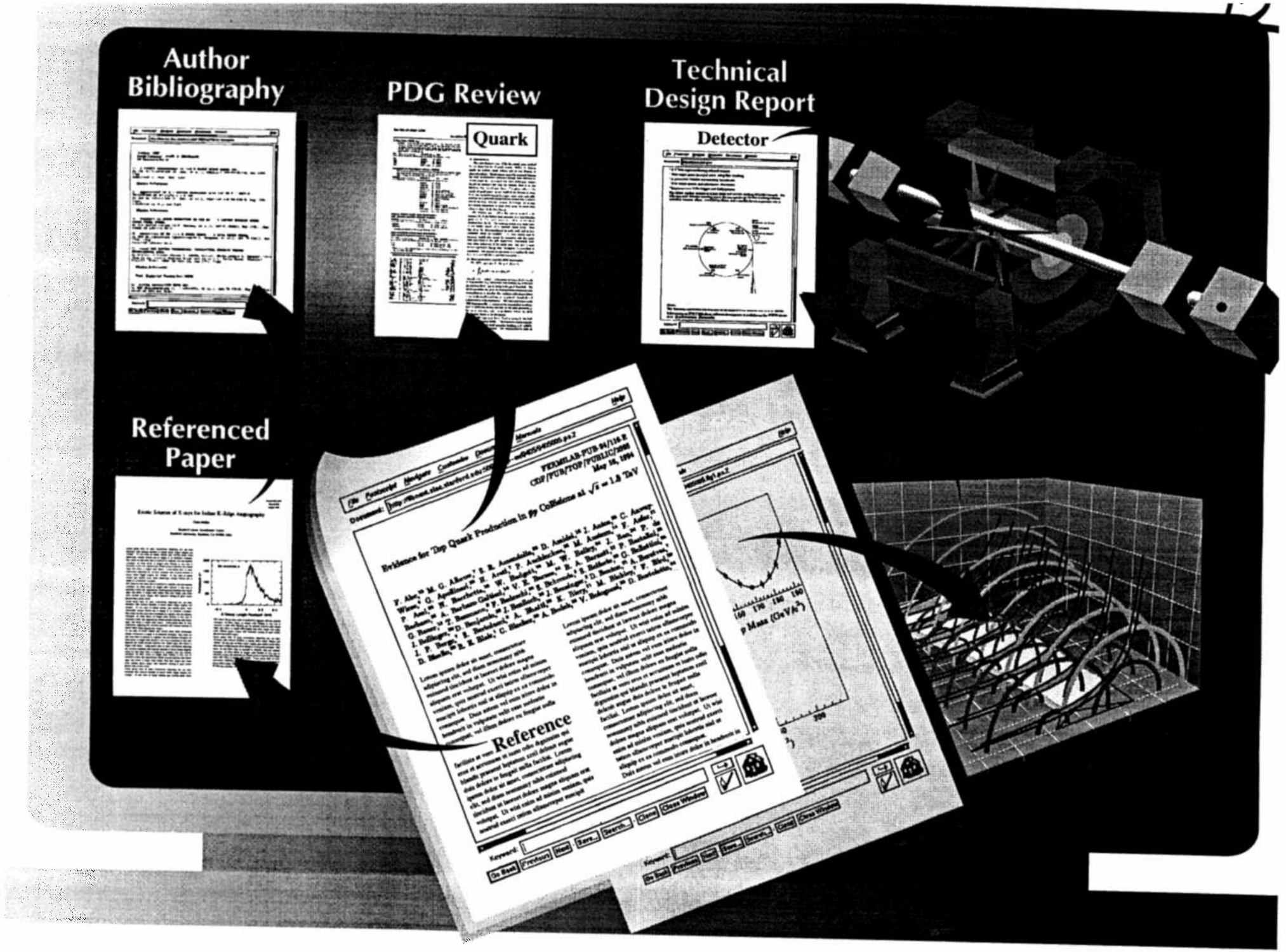


COMPARISON OF PREPRINTED, E-PRINTED, AND UNPREPRINTED PHYS.REV. PAPERS BY NUMBER OF TIMES CITED IN THE SPIRES-HEP DATABASE

Oct 1994

SLAC Library

Phys.Rev.D45-49 (papers in SPIRES-HEP)	Preprints (no e-prints)	E-prints only	Un-preprinted papers only
total number of papers	1286	1162	638
total number of cites	8809	6277	1032
Number of papers not cited	289	274	318
Average time papers cited	6.8	5.4	1.6
Average times cited papers cited	8	7	3
No. papers cited more than 10 times	188	148	14
No. papers cited more than 50 times	17	9	0


Author Bibliography
PDG Review
Quark
Technical Design Report
Detector
Referenced Paper
Reference

10-94
7688A2

Problems from the trenches:

- *New systems must improve access:*
  - -- New tools for viewing and printing
  - -- Stable, calculatable "URL's"
  - -- Standards for "package" integration (e.g. figures)
  - -- User-friendly access systems
- *New tools must reduce workload:*
  - -- More powerful authoring tools
  - -- Standards for parsing bibliographic and other internal data
  - -- Customizable "winnowing" tools

Daily Current Awareness

1. Posted Papers by Subject (17)
2. New Comments to YOUR Papers/Comments
3. The Ultimate Physics Journal Table of Contents (Mar. 1994 issue)
4. E-Mail
5. Bulletin Boards/Net News Summary