



How to Install Pages in the Production SLAC Web

SLAC 12 Sep 1996

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This document is aimed at people wishing to install production Web pages on the SLAC WWW server. Production pages are ones that are at least moderately polished to be shared across groups for some at least moderately long time. In addition to this document, you should also look at [SLAC WWW Resources](#) and its subsidiary pages and the [SLAC AFS Users' Guide](#).

Creating Your Group's Home Page

Before putting any pages on the Web, consider the implications of making your information potentially available to the world via WWW and AFS. Take a look at the memo "[Privacy and Confidentiality Issues in SLAC WWW Information](#)" to learn about many of the issues.

A quick, no-frills way to provide information is to place pre-existing plain-text, Postscript, or even PDF documents in your WWW *groupcode* directory or its subdirectories. (See the [next section](#) for obtaining a *groupcode* directory.) If the server doesn't find a file called `index.html` in your *groupcode* directory, it will display a navigable list of all the files it finds there. For example, here's what's currently in the [Accelerator Department's directory](#).

If, on the other hand, you'd like to give your pages a more Web-like look and feel, create regular Web pages using the [HTML](#) formatting language. Usually, you will want to create a main or "home" page for your group:

- Use your favorite editor to create a file called `groupcode.html` or `home.html`.
- If you do not want people to be able to display your directory, name your group's home page `index.html` instead.
- If you're unfamiliar with HTML, take a look at the Stanford "[Getting Started](#)" page. Also, check out the "[WWW Style Committee Report](#)," especially for recommended information elements on pages, and the "[Template for SLAC WWW Page](#)" for a symbolic example.

Setting Up Subdirectories

First, you must obtain a UNIX account that is privileged for [AFS](#). Get a UNIX account form from the SCSC Desk in the lobby of the Computer Group Building (Building 50). After you receive the UNIX account, you have to enable it for AFS, at least partially. See the [SLAC AFS Users' Guide](#), especially the

Introduction, for instructions.

Then you need to send email to www-admin@slac.stanford.edu to obtain production AFS WWW disk space for your group's pages. The space will be usually be named `/afs/slac/www/grp/groupcode` where the last part, `groupcode`, is your group's code, e.g., `ad`.

You should let `www-admin` know who should be authorized to write into this and any subdirectories your group establishes and who should be able to control that list. For backup, provide at least two usernames. If you expect to install files that total more than 5 Megabytes, let `www-admin` know that, too, for space planning purposes. If you do, you will generally be allocated space on your own AFS volume.

Someone in `www-admin` will setup two AFS privilege groups and their initial membership and associate them with your space via its Access Control List (ACL). These groups are `g-www:g-groupcode` and `g-www:owner-g-groupcode`, where `g-www:g-groupcode` is the AFS group of usernames that may write into your group's directory(ies) and `g-www:owner-g-groupcode` is the AFS group of usernames that may change the names in `g-www:g-groupcode`.

From your group's directory, use the `fs listacl` command to see what groups are in your ACL. Use the `pts member groupcode` command to see who's in a particular AFS group in your ACL, e.g., `pts member g-www:g-ad`. Use the `fs listquota` command to see what AFS volume you are on and how much of its space is used. (The main volume currently shared by those with small space requirements is `www`.)

To start learning about managing AFS Web space, see "Introduction to AFS Duties and Powers of WWW Space Owners." For more aspects of AFS, check out "AFS Information."

Once your group's directory is set up, login to the SLAC UNIX system and put your home page and the other documents you choose into this Web directory. Or you may create subdirectories and put documents there.

Use the `mkdir` command to create the subdirectories. For example, to create a new subdirectory `addo` for group `ad`:

```
cd /afs/slac/www/grp/ad
pwd
mkdir addo
ls -l
```

If you want WWW access to the documents to be restricted only to those logged in to the SLAC domain (actually IP number 134.79), put the files in a subdirectory named `slaonly`. But see AFS Considerations below.

Your group's home page can now be accessed with the URL address, `http://www.slac.stanford.edu/grp/groupcode/homepage.html`, where *homepage* is usually `groupcode`, `home`, or `index`. Or if you do not have a specific home page, you may access a list of **all** the files in your group's home directory with the URL, `http://www.slac.stanford.edu/grp/groupcode/`, if you lack a file named `index.html`.

To understand more about the naming conventions and other aspects of WWW space at SLAC, read the document, "Revised WWW URL and File Naming Scheme".

AFS Considerations

Your Web pages are visible not only through the Web, but also through the AFS file system.

By default, your AFS directory at SLAC and any of its subdirectories are set up so that (a) anyone at SLAC and (b) anyone in the world who is authenticated to AFS within the SLAC cell can:

- lookup status information about the files in the directory
- read the files

through just a simple `ls /afs/slac.stanford.edu/www/grp/groupcode`, `cat`, or other system command.

This means that by default the files are **not** readable by **anyone** in the world with AFS privileges.

N. B.: Files restricted in WWW to people logged on to a host in the SLAC domain (actually to an IP address beginning with 134.79) via a **slaonly** subdirectory **are readable**, not only to anyone at SLAC, but also to anyone in the world authenticated to the SLAC AFS cell. The files may even be displayed through Web browsers by using a `file:` (rather than `http:`) URL.

Referring to Your Group's Production Web Pages

When providing links to your group's Web pages (or pictures, Postscript files, *etc.*), refer to the files in terms of how the server may find them. Generally, this means using relative addressing, that is, relative URL, which is usually more robust over time than fully qualified URL--and shorter. Fully qualified URL contains the domain name and may have more of the path name.

To specify the URL for your group directory, `/afs/slac.stanford.edu/www/grp/groupcode`, use `/grp/groupcode`. For example, if you want to provide a link to the file `/afs/www.slac.stanford.edu/www/grp/ad/AD.html`, use `/grp/ad/AD.html` for the URL. If you want to link to another file in the same directory as, say, your group's home page, use a format like `another-page.html` substituting your specific file name.

For more information on relative URL, check out the source for a page like "[SLAC WWW Resources](#)." Or take a look at the Internet standards document, [RFC 1808](#).

Creating Web Pages Elsewhere and Transferring Them to UNIX

You may create your Web pages on a non-UNIX platform such as a Macintosh and then transfer them to UNIX to be served by SLAC's WWW server.

- Create the HTML document using your favorite Mac application like `HTMP_Editor`, `HTML_Supertext`, `Framemaker` with `fmttohtml`, or `Word` with `rtftohtml`.
- Transfer your Web page from the Mac to UNIX using the Mac file transfer utility, [Fetch](#). It has online help.

To establish a connection with UNIX, use the hostname `unixhub.slac.stanford.edu` and set the directory to your `groupcode`. *E.g.*, if your `groupcode` is `ad`, then set the directory to:

```
/afs/slac.stanford.edu/www/grp/ad
```

Make sure your token is still valid. Then use the `Fetch Put` function to get the file from the Mac and put it into the UNIX AFS directory. See [Tailoring Your Mac for SLAC](#) for information on how to obtain the `Fetch` software.

- Note that transferring image files like .gif requires changing the Fetch defaults. Make sure you select raw data for the format.

Other Places in UNIX for SLAC Web Pages

Sometimes you may create production pages of "publication" quality for a broad spectrum of the SLAC community. These may be appropriate for installation in SLAC's "functional" production Web space. See "Revised WWW URL and File Naming Scheme," especially Guidelines.

At the other end of the spectrum, you may also create pages of interest to yourself and a few colleagues. If you work on UNIX and especially if these are test versions or transient pages, you should put them in a subdirectory named `public_html` under your home directory.

The original version of this page was adapted in May, 1995, from the Stanford University page, "Instructions for Classes," on how to set up home pages for classes.

Joan Winters, Les Cottrell



Introduction to AFS Duties and Powers of WWW Space Owners

12 Sep 1996

Highlighted Home Detailed Home

This document is an introduction for new owners of production WWW subdirectories on their *AFS* duties and powers. It assumes you are already familiar with [How to Install Pages in the Production SLAC Web](#).

This AFS space owner document covers changing group membership, reviewing access control lists, and space monitoring. The page uses damping ring group space as an example. Please substitute your AFS WWW subdirectory for `/afs/slac/www/grp/ad/addr`, your "all" AFS group for `g-www:g-addr`, and your "owner" AFS group for `g-www:owner-g-addr`. Your subdirectory and the AFS groups are in the email you receive announcing their creation.

Overview

For the purposes of this example, the damping ring production Web space has been set up. You are one of its owners. As an "owner" of `/afs/slac/www/grp/ad/addr` space, you have certain duties and powers regarding access and space usage.

By default you may write and perform "all" AFS actions in this subdirectory and any sub-subdirs under it because you are a member of the AFS group `g-www:g-addr`. To see who's in this group, enter the command:

```
pts member g-www:g-addr
```

For more information, read [Introduction to AFS Commands for WWW Authors](#).

You are also the "owner" of this "write" group by virtue of being in the associated AFS group `g-www:owner-g-addr`. This means you control who's in group `g-www:g-addr`.

Changing Membership in the AFS Authoring Group

To add a user to `g-www:g-addr` so that that person may add, modify, and delete files in the `.../grp/ad/addr` subdir, the potential member must first have obtained at least partial AFS privileges.

To do this, the person must have a UNIX account and then issue the command:

```
afsacct
```

and follow the prompts.

There are actually two UNIX passwords now, the regular UNIX one and an AFS one. It is generally easier to set both to the same value. (We're moving in a direction of have only one, encrypted password; but we won't be there for a while yet.)

The next instructions assume you are already familiar with basic AFS commands like `tokens` and `klog`. If not, please take a few minutes to review the [SLAC AFS User's Guide](#) or obtain a printed copy at the Help Desk.

Now you may actually add the user to the AFS "write" group. As a member of group `g-www:owner-g-addr`, you issue the AFS command:

```
pts adduser -user -group g-www:g-addr
```

where is the AFS-privileged user name of the person being added.

To see the syntax of the `pts adduser` command, issue:

```
pts adduser -help
```

To make sure he or she has gotten in OK, issue:

```
pts member g-www:g-addr
```

If you need to remove a member of the group, issue:

```
pts removeuser -user -group g-www:g-addr
```

where username is an AFS user name in the group.

Reviewing the Subdirectory's Access Control List

To see what AFS group(s) have write or other "rights" on the subdirectory `/afs/slac/www/grp/ad/addr`, enter the command:

```
fs listacl /afs/slac/www/grp/ad/addr
```

This displays the subdir's Access Control List (ACL).

In addition to the group `g-www:g-addr`, you will see `g-www:g-admin`, which gives authorized people on the WWW-Tech Committee emergency access, and three "system" groups described in the [typical directory's ACL](#) in the "SLAC AFS User's Guide."

To see the syntax of the `fs listacl` command, enter:

```
fs listacl -help
```

Space Monitoring

Your group has been allocated production WWW space on its own AFS volume, `www.grp.ad.addr`, mounted at `/afs/slac/www/grp/ad/addr`.

This means you are not affected by being on a shared volume used by many groups when someone else suddenly takes up a lot of space. It also means you are responsible for monitoring the fullness of your own AFS volume. To query the percentage used, enter the command:

```
fs listquota /afs/slac/www/grp/ad/addr
```

To see the syntax of the `fs listquota` command

```
fs listquota -help
```

If you find your volume getting full, send email to unix-admin@slac.stanford.edu requesting more. If you know you will be needing a large amount more, please give unix-admin advance notice.

Again, you may find more information about AFS at SLAC in the [SLAC AFS Users' Guide](#). If you have any suggestions for how to make this document more useful, please send [feedback](#) here.

Winters



Introduction to AFS Commands for WWW Authors

12 Sep 1996

Highlighted Home Detailed Home

This document is a brief introduction for new authors of production WWW pages on AFS access concepts and commands. It uses damping ring group space as an example. Please substitute your own group's AFS WWW subdirectory for `/afs/slac/www/grp/ad/addr`, your "all" AFS group for `g-www:g-addr`, and your "owner" AFS group for `g-www:owner-g-addr`. Your group space owner can tell you what these are.

Access

For the purposes of this example, you now have "write" and other access to the AFS WWW space of the accelerator damping ring group as that group's space owner requested. This space, in the `/afs/slac/www/grp/ad/addr` subdirectory, holds your group's production SLAC Web pages and files they link.

You may copy files into this space using the usual UNIX commands, Samba from Windows NT machines, or FTP file transfer programs like `Fetch` from the Macintosh (make sure your regular and AFS passwords are the same). For more information see [How to Install Pages in the Production SLAC Web](#).

Commands

Getting down to system specifics, this access means you are now a member of AFS group `g-www:g-addr`. This group is in the Access Control List (ACL) for the `/afs/slac/www/grp/ad/addr` subdirectory and, by default, any of its subdirectories. Group `g-www:g-addr` has "all" access rights including write ("`rlidwka`" privileges). You may check this out by entering the AFS command:

```
fs listacl /afs/slac/www/grp/ad/addr
```

to see who is in the ACL and their access rights.

To see who's in the `g-www:g-addr` group, enter the AFS command:

```
pts member g-www:g-addr
```

To see who may change membership in this group, enter the AFS command:

```
pts member g-www:owner-g-addr
```

More Information

If you are not familiar with UNIX, take a look at [UNIX at SLAC: Getting Started](#). For more on AFS, take a few minutes to review the [SLAC AFS Users' Guide](#). Or obtain a printed copy of either manual at the

Help Desk. If you are also an owner of AFS WWW production space, you may find the Introduction to AFS Duties and Powers of WWW Space Owners informative.

If you have any suggestions for how to make this document more useful, please send feedback here.

Winters

Stanford Linear Accelerator Center -- Last Modified: Setpember 12, 1996

1996 SLAC Race/Walk T-Shirt Design Page

Here are five versions of the revised Design #1. Note that some lettering became off centered, etc., during the conversion process. Please ignore this problem. Please let me know what you like or dislike about these or vote for your favorite. I'll then revise the design based on your comments.

Gif Format

[Test 1](#), [Test 2](#), [Test 3](#), [Test 4](#), [Test 5](#)

PDF Format (view using Adobe Acrobat)

[Test 1](#), [Test 2](#), [Test 3](#), [Test 4](#), [Test 5](#)

Here are the first two design concepts we discussed at the meeting. Take a look and let me know what you think at next week's meeting.

Design 1

Perspective of Linac (I did not put in the runners yet)

Design 1 - Revised

New colors and runners

Design 2

Puzzle Concept (We can use logos instead of letters, this is just concept)

Design 3

Aerial view of linac with runners

Please send your comments to me at mcdunn@slac.stanford.edu.

Ruth McDunn



MDWeb Logo

[SLAC Home](#)

September 11, 1996

Web Search
Tools:[A2Z](#) | [AltaVista](#) | [DejaNews](#) | [Excite](#) | [InfoSeek](#) | [Lycos](#) | [Magellan](#) | [Open Text](#) |
[Search.com](#) | [WebCrawler](#) | [Yahoo](#)

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 - [SLAC CAD Systems](#)
 - [SLAC CAM Systems](#)
 - [SLAC CAE Systems](#)

What's New?

- Note that all but the Table of Contents and the What's New? sections have been separated from the MD Home page. This will speed up the initial loading of the page, and allow for a more appropriate categorization of resources available to you!
- Also note the Web Search Tools at the top of the page.
- Just added the SLACSPEAK Glossary and MD Abbreviations to the [SLAC Design Resources](#) section.
- Check out the [Web-Based GIS System](#) currently in development.

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Accesses since September 11, 1996:



(Image)

*E-Mail Comments to [theBear](#)
([Barry Prentiss](#))*

[SLAC Home](#)

September 11, 1996

Web Search [A2Z](#) | [AltaVista](#) | [DejaNews](#) | [Excite](#) | [InfoSeek](#) | [Lycos](#) | [Magellan](#) | [Open Text](#) |
Tools: [Search.com](#) | [WebCrawler](#) | [Yahoo](#)

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 - [SLAC CAE Systems](#)

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Accesses since September 11, 1996:

00076

E-Mail Comments to [theBear](#)

SLAC WWW. SLAC pages changed yesterday.
printed 09/14/1996 [incomplete]

SLAC ARCHIVES COLL. 00-072
SERIES 2 SUBSERIES 1
BOX 4 FOLDER 16



SLAC Pages Changed Yesterday

Last Updated: 9/14/96

The following 29 pages in the main SLAC production Web space were added or updated yesterday. The list does not include files in other formats like .gif, .ps, or plain text, nor does it include daily reports.

<http://www.slac.stanford.edu/grp/scs/net/networking.html>
<http://www.slac.stanford.edu/slac/www/resource/browser.html>
<http://www.slac.stanford.edu/slac/www/jump.html>
<http://www.slac.stanford.edu/slac/www/policy/appr-use.html>
<http://www.slac.stanford.edu/slac/www/policy/indpage.html>
<http://www.slac.stanford.edu/slac/www/policy/security.html>
<http://www-slac.slac.stanford.edu/find/newppf.html>
<http://www-slac.slac.stanford.edu/FIND/oldppf.html>
<http://www.slac.stanford.edu/exp/e144/plots/plots.html>
<http://www.slac.stanford.edu/esh/medical/now/slacrace/race.html>
<http://www.slac.stanford.edu/esh/medical/now/now-toas.html>
<http://www.slac.stanford.edu/grp/md/mdhome.html>
<http://www.slac.stanford.edu/grp/md/resources.html>
<http://www.slac.stanford.edu/grp/md/mdcomp.html>
<http://www.slac.stanford.edu/grp/md/cad/msplot.html>
<http://www.slac.stanford.edu/slac/www/wsc/wsc-list.html>
<http://www.slac.stanford.edu/slac/www/policy/page-element.html>
<http://www.slac.stanford.edu/slac/www/policy/policy.html>
<http://www.slac.stanford.edu/slac/www/authoring/author-rr.html>
<http://www.slac.stanford.edu/slac/www/authoring/definition.html>
<http://www.slac.stanford.edu/slac/www/authoring/graph-ref.html>
<http://www.slac.stanford.edu/slac/www/authoring/html-ref.html>
<http://www.slac.stanford.edu/grp/techpubs/help/www/mbwa.html>
<http://www.slac.stanford.edu/slac/www/wwwtech/doc/urlname.html>
<http://www.slac.stanford.edu/slac/www/wsc/wsc-rr.html>
<http://www.slac.stanford.edu/slac/www/wsc/wsc-hp.html>
<http://www.slac.stanford.edu/grp/scs/net/services.html>
<http://www.slac.stanford.edu/grp/scs/net/critical.html>
<http://www.slac.stanford.edu/usr/local/doc/how-to-use/pop.html>

WWW Support

WorldWideWeb Browsers at SLAC

This page is being completely revised by the WWW Technical Committee. Stay tuned for an update!

SLAC 1 Dec 1993

A WorldWideWeb browser is a program that a user can execute to access information available to WorldWideWeb (WWW). Numerous browser programs exist. Each of these programs perform the same basic function, but may differ dramatically in their user interface and their ability to provide access to specialized file types.

Browsers are generally categorized according to the type of user interface they provide.

Line Mode Browsers

These are browsers designed to work on systems which support (or require) line mode access. This includes terminals which support VT100 emulation. These browsers provide minimal access to WWW and typically do not provide the "point and click" (GUI) interface often associated with hypertext. Links are usually displayed as menu items. Graphics and audio files and the display of formatted documents (e.g., Postscript) is usually not supported by line mode browsers. Use of line mode browsers is not encouraged unless no other browser is supported on the platform being used or unless access is via a slow data link (i.e., dialin).

At SLAC line mode browsers are installed and maintained on the RS6000s, SUNs, SLACVX and SLACVM. The line mode browser on SLACVM is an old release and will not be updated. Its use is not recommended. Questions regarding SLAC support of the line mode browsers should be directed to Bebo White. The line mode browsers are invoked by entering the command

www

Fullscreen Browsers

A fullscreen browser called Lynx offers an alternative to the line mode browser on RS6000s, SUNs, NeXTs, and SLACVX. Lynx presents documents in an environment similar to that of a fullscreen editor. Lynx is the recommended non-GUI browser for these systems. Lynx is invoked by entering the command

lynx

GUI Browsers

These are browsers which use a "point and click" interface. SLAC users are strongly encouraged to use browsers from the following list:

Midas

An X-Windows browser supported on all SLAC UNIX platforms and SLACVX. Questions regarding SLAC support of Midas should be directed to Tony Johnson. Midas is invoked by entering the command

midaswww

NCSA Mosaic

An X-Windows browser supported on all SLAC UNIX platforms. Questions regarding SLAC support of Mosaic should be directed to Bebo White. Mosaic is invoked by entering the command

xmosaic

Mosaic for the Macintosh

An implementation of NCSA Mosaic for the Apple Macintosh is available on Public Server 1. Mosaic for the Macintosh does not presently support viewing of Postscript documents. Questions regarding SLAC support of MacMosaic should be directed to Bebo White.

NeXT

The NeXT browser was developed at CERN. Questions regarding SLAC support of the NeXT browser should be directed to Dennis Wisinski or Renata Dart.

TkWWW

An X-Windows browser supported on all SLAC UNIX platforms. Questions regarding SLAC support of TkWWW should be directed to Paul Rensing. TkWWW is invoked by entering the command

tkwww

Defaults

There are two defaults of particular interest to SLAC WWW users.

All browsers will default to the SLAC Front Page. On UNIX systems this is controlled by the environment variable **WWW_HOME**. This default can be changed by assigning to **WWW_HOME** the URL of an "alternative front page."

The command **web** is used as a synonym for browser commands on various systems. **web** usually invokes the recommended browser for the platform being used (e.g., the linemode browser on VM or VMS, Midas on systems supporting X-Windows).

This page evolved from an earlier one by Tony Johnson.

Bebo



WWW Support

[SLAC Welcome](#)
[Highlighted Home](#)
[Detailed Home](#)
[What's New](#)
[Search](#)
[Phonebook](#)


Users

Policies

- [Appropriate Use of the WWW at SLAC](#)
- [Individual Home Page Policy](#) (draft)
- [Web Security Policies](#)

Browsers

- [Browsers, Recommended](#)
- [Helper Applications *](#)
- [Mosaic Tutorial *](#)
- [Netscape Tutorial *](#)

Resources

- [Bibliography](#)
- [Introduction to WWW at SLAC](#)
- [WWW Support Coordinators \(WSC\)](#)
- [WWW Users' Group](#) (under development)



Authors

Policies

- See Above -- [Users Policies](#)
- [Privacy and Confidentiality](#) (revision underway)
- [Required and Recommended Page Elements](#)
- [Rights and Responsibilities of Web Authors](#) (draft)

Authoring and Installation

- [Brief SLAC Style Guide](#) (under development)
- [Graphics - Tutorials, Sources, and Image Maps](#)
- [Guidelines for WWW Graphics at SLAC](#) (under development)
- [HTML - Tutorials, Style Guides, and Utilities](#)
- [How to Install Pages in the Production SLAC Web](#)
- [Mac-based WWW Authoring at SLAC](#)
- [PC-based WWW Authoring at SLAC](#) (under development)
- [URL Naming System](#) (revision underway)
- [Using SLAC Web Utilities in HTML Documents](#)



Support Coordinators

- [Rights and Responsibilities of SLAC WWW Support Coordinators \(WSC\)](#)
- [Coordinator List](#)
- [Home Page](#)
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Management and Support

- WWW Users' Group (under development)
- WWW Coordinating Committee (WWWCC)
- WWW Technical Committee (WWW Tech)

* Off-site link. Please notify page owner if link becomes invalid.

[Suggestions, Comments, Problems, Ideas]

Last Update: September 13, 1996 -- McDunn

WWW Support

Appropriate Use of the WWW at SLAC

-- Draft -- Draft -- Draft --

[Based on policy, see Use of SLAC Information Resources.]

At Stanford Linear Accelerator Center, we recognize and value the WWW as a diverse, decentralized, and robust mechanism for publication, communication, and research. We support the responsible use of the WWW and encourage the Laboratory community to make use of modern communications tools such as electronic mail and the World Wide Web. As a DOE funded national laboratory, we have unique obligations to protect property and interests of the United States government. In order to promote these goals, we adopt the following guidelines for appropriate use:

1. Promote the sharing of information.
2. Protect sensitive information.
3. Use the WWW for official purposes.
4. Demonstrate professional, ethical, and courteous use.

1. Promote the sharing of information.

Within the constraints identified below, users and providers should seek to use the WWW to foster the sharing of information within SLAC, the research community, and the world as a whole. Information providers should adhere to accepted standards and plan for multiple browsers. Whenever possible, test pages under several different browsers, preferable on different platforms, to ensure they work. When you want the widest exposure possible, design your materials to accommodate text-only browsers.

2. Protect sensitive information.

Regardless of whether information is in printed or electronic form, the ultimate responsibility for protecting it lies with each of us who has access to it. All users should be aware of the sensitivity level of information they access and should protect that information appropriately. Information providers must ensure that information is appropriately reviewed and approved before placing it in open access areas, that access to sensitive information is adequately restricted, and that users are informed of any security restrictions on the information. Remember that two pieces of information that are not sensitive alone can become sensitive when combined. Remember also to protect copyright, patent, proprietary, and other intellectual rights.

3. Use the WWW for official purposes.

As property of SLAC, computing and communications resources are to be used for official purposes only. In general, official purpose means those purposes required to carry out authorized programs, including program work carried out under contracts made pursuant to authority vested in SLAC. Official purposes is largely a matter of administrative discretion and determination based on a particular situation and on SLAC's interest in the proposed use of the resources.

4. Demonstrate professional, ethical, and courteous use.

Whenever you publish, send, or copy any information outside SLAC, remember you are representing SLAC to the outside world. Strive for professionalism and use common sense. Add appropriate qualifications if the material published is not meant to represent SLAC as a whole. Acknowledge ownership when information ownership belongs to another. Notify people if they're about to get large or unusual documents. Copying of inappropriate and/or non-business-related information is forbidden. And avoid heated comments and political

disputes while utilizing SLAC resources.

Last Update: September 9, 1996
Minton or McDunn

WWW Support

Individual Home Page Policy -- DRAFT -- Under Revision

Individual home pages on SLAC servers represent the SLAC Laboratory as well as the individual. They are communications which must comply with the "appropriate use" requirements found in federal law and in provisions of SLAC's contract pertaining to the proper use, protection, accountability and disposition of government property. The individual in developing his/her home page must use these government-owned information technologies only in support of his/her official duties because, as the existing policy states: "SLAC information resources and networks may only be used for work related to SLAC". In order to assure all relevant parties that no misuse of resources occurs, SLAC reserves the right to sample file contents at any time.

The individual home pages on SLAC servers should be considered professional home pages and the content must be limited to information regarding the person's professional life and activities at SLAC. This may include information about locating the person, anything that might normally appear in a professional resume, a description of the SLAC relevant activities, documents (including text, pictures, sounds and multimedia) relevant to SLAC activities subject to appropriate approvals required by patent and copyright agreements and any other organizational approvals (such as experimental data publication policies) which may exist. The pages may also be required to have certain style and content such as the owner's name and e-mail address. These elements will be determined by the SLAC WWW policy committee.

Links in SLAC individual home pages must be limited to other SLAC pages which comply with this policy and non-SLAC links which are relevant to SLAC activities or other subjects which would normally appear on a professional resume.

Last Update: September 9, 1996

Content: Steve Williams

Page: McDunn



SLAC Web Security Policies

Last Update: April 15, 1996

[SLAC Welcome](#)[Highlighted Home](#)[Detailed Home](#)[What's New](#)[Search](#)[Phonebook](#)

Why do Users have to Worry about Web Security?

By its nature the pages on the World Wide Web are highly visible to people all over the world including, unfortunately, a small minority of Internet users who might be tempted to exploit the Web to gain unauthorized access to SLAC computers or information. The Web has developed very rapidly and partly as a result of this there have been many well publicised cases of security problems with Web browser and server software. Even commercially developed Web software has been prone to serious security problems.

By exploiting such weaknesses, or by exploiting weaknesses in software developed at SLAC and used with the Web, or by exploiting misconfigured Web server or client software at SLAC, it could be possible for someone on the Internet to gain unauthorized access to SLAC computers and/or to information stored on SLAC's computers. In the worst case this could result in destruction of information stored on SLAC's computers, or even damage to apparatus controlled by these computers.

Government laboratories such as SLAC have proven to be tempting targets for hackers. In 1995 an intrusion into SLAC's network from the Internet resulted in SLAC having to sever its connection to the Internet for several days, inconveniencing many remote collaborators who were prevented from performing their normal work at SLAC. In addition considerable manpower had to be expended checking for and removing effects of the break-in and beefing up security to prevent similar intrusions in the future. Although this attack was probably not performed using the Web, and we have so far seen no evidence of attempted break-in via the Web, it is to everyone's benefit to take reasonable precautions to prevent such intrusions taking place in the future.

In order to reduce the potential for such break-ins SCS staff monitor security related news groups and official security advisories (CERT) and take steps to prevent the exploitation of known security holes. Due to the widely distributed nature of the Web it is necessary for all Web users, and particularly Web page or cgi-script authors, to be aware of the security problems inherent in the Web, and to take appropriate steps to prevent security breaches.

The policies described below have been developed to minimize the exposure to Web breakins with an acceptable expenditure of effort/resources, while maintaining an environment in which the tremendous potential of the Web can be effectively exploited by SLAC groups. It must be understood that there is an implicit conflict between the requirements of security, the desire to exploit this new technology for SLAC's research and administrative needs, and limited manpower. Even with the implementation of the policies described here it is not possible to assure 100% the security of SLAC's Web environment. The level of security described here is thought to be adequate for most of SLAC's current requirements, however it is not adequate for applications which may affect personnel safety or for secure personnel records.

Policies

Servers

In order to provide reasonable security and server reliability and availability, we recommend that:

- SLAC provides a well maintained central Web server for use by all groups at SLAC. This should minimize the demand for multiple servers.
- Requirements for additional Web servers should be documented and brought to the WWW-Tech for discussion and approval if appropriate. Guidelines for appropriateness will need to be worked out based on experience.
- No new Web servers should be set up at SLAC without review and approval by the WWW-Tech and/or some higher authority.
- Any SLAC authorized Web server will be dedicated to the Web server task and maintained by staff who will:
 - keep current with security patches, evaluate and expeditiously apply as appropriate;
 - keep the operating system at a level supported by the vendor;
 - upgrade (server and application software and hardware) and provide capacity planning;
 - ensure the administrator of the server, or a designate, will be available during working hours to resolve problems;
 - keep and make available a current list of phone numbers where administrators or designates may be reached in a critical situation outside normal hours;
 - provide high availability;
 - provide users with the ability to audit use via logs and monitor exceptions;
 - provide backup of data
 - provide backout procedures for installations of new software or configurations;
 - properly restrict access to information;
 - regularly attend the WWW-Tech meetings and provide updates on progress and problems as well as new software functions available.
- As part of the management of the central server the the following will be provided:
 - an automated indexing facility and user search tool for the SLAC Web pages;
 - a simple way for users to designate that Web pages are to be available to only SLAC nodes;
 - evaluation of new servers and functions (e.g. replication) and recommendations for use as appropriate.

CGI Scripts

WWW CGI (Common Gateway Interface) scripts run as an extension of the Web server and thus have the same access rights to hosts/file/network resources that the server has. Such scripts can thus cause damage (such as gain unauthorized access or deny service) if the script is not carefully written. Problems can be either inadvertent -- aka, bugs -- or deliberate if the script has flaws that allow it to be subverted by a remote user/cracker. Experience has shown that most initial versions of CGI scripts written at SLAC have contained security holes. We therefore:

- restrict installation of CGI scripts to authorized installers (installers will be authorized by SCS for the central server);
- recommend that people use existing CGI scripts with good security pedigrees.

Some support for user-written CGI scripts is provided including:

- a documented simple wrapper which facilitates testing and applies some simple security checks;
- keeping track of CGI script ownership;
- documentation on how to reduce security exposures for CGI scripts, which is required reading for new CGI script authors.

Should more support be requested, or if there is disagreement as to the importance of the expressed need, then the user will need to document the requirements and bring them to the WWW-CC.

Clients Note that at the moment these policies do not address client-side security problems such as those associated with Java and Javascript.

Les Cottrell and Tony Johnson for the WWW-CC

PREPRINTS IN PARTICLES AND FIELDS

A list of 233 recent high-energy physics preprints displayed currently in the SLAC Library. See also the last week's list. Preprints are arranged by institutions (as represented by report numbers). Abstracts can be viewed for e-prints (papers obtained from electronic archives). With a full-screen browser, such as Netscape or Mosaic, you may also be able to view complete postscript versions of such papers. See further information at the end of this file. You can subscribe to PPF by sending e-mail to listserv@slac.stanford.edu. Leave the *Subject:* line empty, and put the command

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September 13, 1996

96-37

ADP-96-25-224

EXP, THEOR

DEEP INELASTIC STRUCTURE FUNCTIONS IN A COVARIANT SPECTATOR MODEL. Sep 1996. 22p.

By K. Kusaka (Tokyo Metropolitan U.), G. Piller (Munich, Tech. U.),
A.W. Thomas, A.G. Williams (Adelaide U.) {Archive:
hep-ph@xxx.lanl.gov - 9609277}}

Abstract and Paper

AEI-016

THEOR

NEWTONIAN COSMOLOGY IN LAGRANGIAN FORMULATION: FOUNDATIONS AND PERTURBATION THEORY. Sep 1996. 30p.

By Jurgen Ehlers (Potsdam, Max Planck Inst.), Thomas Buchert
(Munich U., Theor. Phys.) Submitted to Gen. Rel. Grav. {Archive:
astro-ph@xxx.lanl.gov - 9609036}}

Abstract and Paper

ANL-HEP-CP-96-74

EXP, THEOR

THE HARD GLUON COMPONENT OF THE QCD POMERON. Sep 1996. 8p.

By Alan R. White (Argonne) - Invited talk at 3rd AUP Workshop on QCD:
Collisions, Confinement, and Chaos, Paris, France, 3-8 Jun 1996
{Archive: **hep-ph@xxx.lanl.gov - 9609282}**}

Abstract and Paper

ASTROPH-9609021

EXP, THEOR

TWO BODY HEATING IN NUMERICAL GALAXY FORMATION EXPERIMENTS.

Sep 1996. 13p.

By Matthias Steinmetz (Garching, Max Planck Inst. and UC, Berkeley,
Astronomy Dept.), Simon D.M. White (Garching, Max Planck Inst.)
Submitted to Mon. Not. Roy. Astron. Soc. {Archive:
astro-ph@xxx.lanl.gov - 9609021}}

Abstract and Paper

ASTROPH-9609029 THEOR
**EVOLUTION OF THE TWO POINT CORRELATION FUNCTION IN THE
ZEL'DOVICH APPROXIMATION.** Sep 1996. 13p.
By Cristiano Porciani (SISSA, Trieste) Submitted to Mon. Not. Roy.
Astron. Soc. {Archive: astro-ph@xxx.lanl.gov - 9609029}

Abstract and Paper

ASTROPH-9609031 THEOR
THE EVOLUTION OF A PRIMORDIAL GALACTIC MAGNETIC FIELD. Sep
1996. 47p.
By Armando M. Howard (NASA, Inst. for Space Studies), Russell M.
Kulsrud (Princeton U. Observatory) {Archive:
astro-ph@xxx.lanl.gov - 9609031}

Abstract and Paper

ASTROPH-9609034 EXP, THEOR
THE CMB DIPOLE: THE MOST RECENT MEASUREMENT AND SOME HISTORY.
Mar 1996. 7p.
By Charles H. Lineweaver (Strasbourg Observatory) - To be published
in the proceedings of 31st Rencontres de Moriond: Microwave
Background Anisotropies, Les Arcs, France, 16-23 Mar 1996 {Archive:
astro-ph@xxx.lanl.gov - 9609034}

Abstract and Paper

ASTROPH-9609037 THEOR
**CPPA - A NEW HYDRODYNAMICAL CODE FOR COSMOLOGICAL LARGE SCALE
STRUCTURE SIMULATIONS.** Aug 1996. 12p.
By Andrzej Kudlicki (Warsaw, Copernicus Astron. Ctr.), Tomasz Plewa,
(Garching, Max Planck Inst.), Michal Rozyczka (Warsaw U.
Observatory and Warsaw, Copernicus Astron. Ctr.) Submitted to Acta
Astron. {Archive: astro-ph@xxx.lanl.gov - 9609037}

Abstract and Paper

ASTROPH-9609040 THEOR
THE DISTRIBUTION OF DARK MATTER IN A RINGED GALAXY. Sep 1996.
15p.
By A.C. Quillen (Ohio State U. and Steward Observatory, Tucson), J.A.
Frogel (Cerro-Tololo InterAmerican Obs. and Durham U.) Submitted to
Astrophys. J. {Archive: astro-ph@xxx.lanl.gov - 9609040}

Abstract and Paper

ASTROPH-9609048 EXP, THEOR
CLUSTERS OF GALAXIES AS A STORAGE ROOM FOR COSMIC RAYS. Sep
1996. 25p.
By V.S. Berezhinskii (Gran Sasso), P. Blasi (Gran Sasso and Aquila
U.), V.S. Ptuskin (Troitsk, IZMIRAN) Submitted to Astrophys J.
{Archive: astro-ph@xxx.lanl.gov - 9609048}

Abstract and Paper

ASTROPH-9609060 EXP, THEOR
**ANALYSIS OF THE LYMAN ALPHA FOREST IN COSMOLOGICAL SIMULATIONS
USING VOIGT PROFILE DECOMPOSITION.** Sep 1996. 4p.
By Romeel Dave, Lars Hernquist (UC, Santa Cruz), David H. Weinberg
(Ohio State U.), Neal Katz (Washington U., Seattle) - Presented at
IAGUSP Workshop on Young Galaxies and QSO Absorbers, Santos, Brazil,
Apr 1996 {Archive: astro-ph@xxx.lanl.gov - 9609060}

Abstract and Paper

ASTROPH-9609065 EXP, THEOR
**POYNTING JETS FROM BLACK HOLES AND COSMOLOGICAL GAMMA RAY
BURSTS.** Aug 1996. 10p.
By P. Meszaros (Penn State U.), M.J. Rees (Cambridge U., Inst.
Astronomy) {Archive: astro-ph@xxx.lanl.gov - 9609065}

Abstract and Paper

ASTROPH-9609072 EXP, THEOR
**THE POPULATION OF DAMPED LYMAN ALPHA AND LYMAN LIMIT SYSTEMS IN
THE COLD DARK MATTER MODEL.** Sep 1996. 17p.
By Jeffrey P. Gardner, Neal Katz (Washington U., Seattle), Lars
Hernquist (Lick Observatory), David H. Weinberg (Ohio State U.)
Submitted to Astrophys. J. {Archive: astro-ph@xxx.lanl.gov -
9609072}

Abstract and Paper

BI-TP-96-42 EXP, THEOR
**QUARKONIUM PRODUCTION AND COLOR DECONFINEMENT IN NUCLEAR
COLLISIONS.** May 1996. 16p.
By D. Kharzeev (Bielefeld U.) - Invited talk at 12th International
Conference on Ultra-Relativistic Nucleus-Nucleus Collisions (Quark
Matter 96), Heidelberg, Germany, 20-24 May 1996 {Archive:
hep-ph@xxx.lanl.gov - 9609260}

Abstract and Paper

BROWN-HET-1056 THEOR
SOME KEY ISSUES CONFRONTING INFLATIONARY COSMOLOGY. Aug 1996.
5p.
By Robert H. Brandenberger (Brown U.) {Archive:
astro-ph@xxx.lanl.gov - 9609045}

Abstract and Paper

CAVENDISH-HEP-96-16 EXP, THEOR
**LIGHT, LONGLIVED AND SECLUDED: CAN GLUINOS BE DRIVEN OUT FROM
LEP-1 DATA?** Sep 1996. 11p.
By S. Moretti (Cambridge U., Cavendish Lab and Turin U. and INFN,
Turin), R. Munoz-Tapia (Granada U.), K. Odagiri (Cambridge U.,
Cavendish Lab) {Archive: hep-ph@xxx.lanl.gov - 9609235}

Abstract and Paper

CBPF-NF-50-96 THEOR
MULTIFLAVOR CORRELATION FUNCTIONS IN NONABELIAN GAUGE THEORIES AT FINITE FERMION DENSITY IN TWO-DIMENSIONS. Sep 1996. 25p.
 By H.R. Christiansen (Rio de Janeiro, CBPF), F.A. Schaposnik (La Plata U.) Submitted to Phys. Rev. D {Archive:
 hep-th@xxx.lanl.gov - 9609061}

Abstract and Paper

PRINT-96-213 (CEBAF) EXP, THEOR, REVIEW
MESONIC CONTRIBUTIONS TO THE SPIN AND FLAVOR STRUCTURE OF THE NUCLEON. 1996. 102p.
 By J. Speth (CEBAF), A.W. Thomas (Adelaide U.) Submitted to Adv. Nucl. Phys.

CERN-PPE-96-065 INSTR, EXP
PARTICLE TRACKING WITH SCINTILLATING FIBERS. May 1996. 40p.
 By C. D'Ambrosio, T. Gys, H. Leutz, D. Puertolas (CERN) Submitted to IEEE Trans. Nucl. Sci.

CERN-PPE-96-066 INSTR, EXP
WA92: A FIXED TARGET EXPERIMENT TO TRIGGER ON AND IDENTIFY BEAUTY PARTICLE DECAYS. May 1996. 23p.
 By BEATRICE Collaboration (M. Adamovich, et al.)

CERN-PPE-96-069 INSTR, EXP
SEARCH FOR MUON-NEUTRINO (ELECTRON-NEUTRINO) <--> TAU-NEUTRINO OSCILLATIONS WITH A DETECTOR BASED ON A EMULSION - SILICON TARGET. Jun 1996. 30p.
 By J.J. Gomez-Cadenas (CERN and Massachusetts U., Amherst), J.A. Hernando (Massachusetts U., Amherst and Valencia U.) Submitted to Nucl. Instrum. Methods

CERN-PPE-96-070 EXP, REVIEW
SUMMARY OF EXPERIMENTAL RESULTS AND FUTURE OPPORTUNITIES. May 1996. 69p.
 By Samuel C.C. Ting (CERN and MIT, LNS) - Summary Talk presented at International Symposium on Lepton - Photon Interactions, Beijing, China, 10-15 August, 1995 Submitted to Phys. Rep.

CERN-PPE-96-073 EXP
MEASUREMENT OF THE B(D)0 MESON OSCILLATION FREQUENCY. May 1996. 19p.
 By L3 Collaboration (M. Acciarri, et al.)

CERN-PPE-96-082 EXP, REVIEW
RECENT RESULTS ON B MESON OSCILLATIONS. Jun 1996. 26p.
 By Sau Lan Wu (Wisconsin U., Madison) - Plenary Talk at the 17th International Symposium on Lepton-Photon Interactions at High Energies, Beijing, China, 10 - 15 Aug 1995

CERN-PPE-96-089 INSTR
LUMINOSITY MEASUREMENT IN THE L3 DETECTOR AT LEP. Jun 1996. 69p.
 By I.C. Brock, et al.

CERN-PPE-96-095 EXP
SEARCH FOR NEUTRAL HIGGS BOSON PRODUCTION THROUGH THE PROCESS E+

E- --> Z* H0. Jul 1996. 24p.
By L3 Collaboration (M. Acciarri, et al.)

CERN-TH-96-193 EXP, THEOR
CHIRAL SYMMETRY BREAKING IN QCD: A VARIATIONAL APPROACH. Aug
1996. 10p.
By C. Arvanitis (Imperial Coll., London), F. Geniet (Montpellier
U.), J.L. Kneur (CERN), A. Neveu (Montpellier U.) {Archive:
hep-ph@xxx.lanl.gov - 9609247}

Abstract and Paper

CERN-TH-96-221 EXP, THEOR
TRANSVERSE MOMENTUM SPECTRA OF HADRONS FROM NUCLEAR COLLISIONS.
Aug 1996. 12p.
By J. Alam (Bielefeld U. and Calcutta, VECC), H. Satz (Bielefeld U.
and CERN)

CERN-TH-96-239 EXP, THEOR
**QCD JET CALCULATIONS IN DIS BASED ON THE SUBTRACTION METHOD AND
DIPOLE FORMALISM.** Sep 1996. 5p.
By S. Catani (INFN, Florence and Florence U.), M.H. Seymour (CERN) -
Presented at International Workshop on Deep Inelastic Scattering and
Related Phenomena (DIS 96), Rome, Italy, 15-19 Apr 1996 {Archive:
hep-ph@xxx.lanl.gov - 9609237}

Abstract and Paper

CERN-TH-96-243 EXP, THEOR
**VARIATIONAL QUARK MASS EXPANSION AND THE ORDER PARAMETERS OF
CHIRAL SYMMETRY BREAKING.** Aug 1996. 39p.
By Jean-Loic Kneur (CERN) {Archive: **hep-ph@xxx.lanl.gov -
9609265**}

Abstract and Paper

CERN-TH-96-251 THEOR
**STABILITY OF THE QUANTUM SUPERMEMBRANE IN A MANIFOLD WITH
BOUNDARY.** Sep 1996. 10p.
By J.G. Russo (CERN) {Archive: **hep-th@xxx.lanl.gov -
9609043**}

Abstract and Paper

CGPG-96-9-1 THEOR
COLLIDING BLACK HOLES: HOW FAR CAN THE CLOSE APPROXIMATION GO?
Sep 1996. 6p.
By Reinaldo J. Gleiser (Cordoba U.), Carlos O. Nicasio (Cordoba U.
and Penn State U.), Richard H. Price (Utah U.), Jorge Pullin (Penn
State U.) {Archive: **gr-qc@xxx.lanl.gov - 9609022**}

Abstract and Paper

CITA-96-13 THEOR
BENDING OF LIGHT BY GRAVITY WAVES. Sep 1996. 14p.
<http://www-slab.slac.stanford.edu/find/newppf.html>

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By Nick Kaiser, Andrew Jaffe (Canadian Inst. Theor. Astrophys.)
Submitted to Astrophys. J. {Archive: **astro-ph@xxx.lanl.gov** -
9609043}

Abstract and Paper

CTP-TAMU-44-96 THEOR
A NOTE ON BRANS-DICKE COSMOLOGY WITH AXION. Sep 1996. 5p.
By Sudipta Mukherji (Texas A-M) {Archive: **hep-th@xxx.lanl.gov**
- **9609048**}

Abstract and Paper

DAMTP-R-96-23 THEOR
LARGE ANGULAR SCALE CMB ANISOTROPY INDUCED BY COSMIC STRINGS.
Sep 1996. 4p.
By B. Allen (Wisconsin U., Milwaukee), R.R. Caldwell, E.P.S.
Shellard (Cambridge U., DAMTP), A. Stebbins (Fermilab), S.
Veeraraghavan (NASA, Goddard) Submitted to Phys. Rev. Lett. {Archive:
astro-ph@xxx.lanl.gov - **9609038**}

Abstract and Paper

DEM-NT-96-05 THEOR
**A NONLINEAR DEFORMED SU(2) ALGEBRA WITH A TWO COLOR
QUASITRIANGULAR HOPF STRUCTURE.** n.d. 23p.
By D. Bonatsos (Democritos Nuclear Research Center), C.
Daskaloyannis (Thessaloniki U.), P. Kolokotronis (Democritos
Nuclear Research Center), A. Ludu (Bucharest U.), C. Quesne
(Brussels U.) Submitted to J. Math. Phys.

DEM-NT-96-06 THEOR
SYMMETRIES IN NUCLEI AND MOLECULES. Jun 1996. 12p.
By Dennis Bonatsos, P. Kolokotronis, D. Lenis (Democritos Nuclear
Research Center), C. Daskaloyannis, G.A. Lalazissis (Thessaloniki
U.), S.B. Drenska, N. Minkov, P.P. Raychev, R.P. Roussev (Sofiya,
Inst. Nucl. Res.) - Talk given at 15th International Workshop on
Nuclear Theory, Rila Mountains, Bulgaria, 10-15 Jun 1996

DEM-NT-96-07 THEOR
**NONLINEAR DEFORMED SU(2) ALGEBRAS INVOLVING TWO DEFORMING
FUNCTIONS.** Jun 1996. 8p.
By D. Bonatsos, P. Kolokotronis (Democritos Nuclear Research
Center), C. Daskaloyannis (Thessaloniki U.), A. Ludu (Bucharest
U.), C. Quesne (Brussels U.) - Talk given at 5th International
Colloquium on Quantum Groups and Integrable Systems, Prague, Czech
Republic, 20-22 Jun 1996

DESY-FH1-96-03 EXP
**MEASUREMENT OF THE PROTON STRUCTURE FUNCTION F2 AT SMALL BJORKEN
X AND MOMENTUM TRANSFER Q**2 WITH THE H1 DETECTOR AT HERA.** Jul
1996. 122p. (Doctoral Thesis) (In German)
By Robert Buchholz (Hamburg U.)

DESY-F11-F22-96-02 EXP
**STUDY OF PROCESSES WITH VIRTUAL AND REAL W+- BOSONS WITH THE H1
DETECTOR AT HERA.** Aug 1996. 164p. (Doctoral Thesis) (In German)
By Andre Schoning (Hamburg U.)

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DESY-F15-96-02 EXP
AN UPPER BOUND FOR THE PRODUCTION OF GLUEBALLS IN UPSILON (1S) DECAYS. Jul 1996. 119p. (Doctoral Thesis) (In German)
 By Robert Reiner (Hamburg U.)

DESY-T-96-05 THEOR
MODULI AND AMPLITUDES OF THE N=2 STRING. Jul 1996. 57p.
 (Ph.D. Thesis) (In German)
 By Jan Bischoff (Hannover U.)

DESY-96-171 INSTR
THE H1 LEAD / SCINTILLATING FIBER CALORIMETER. Aug 1996. 24p.
 By H1 SPACAL Group (R.D. Appuhn, et al.)

DESY-96-183 EXP
STUDY OF ELASTIC RHOO PHOTOPRODUCTION AT HERA USING THE ZEUS LEADING PROTON SPECTROMETER. Aug 1996. 38p.
 By ZEUS Collaboration (M. Derrick, et al.) {Archive:
 hep-ex@xxx.lanl.gov - 9609003}

Abstract and Paper

DFF-248-4-96 EXP, THEOR
PHYSICAL ANOMALOUS DIMENSIONS AT SMALL X. Apr 1996. 26p.
 By Stefano Catani (INFN, Florence and Florence U.) {Archive:
 hep-ph@xxx.lanl.gov - 9609263}

Abstract and Paper

DFUB-95-18 EXP, THEOR
GAUGE INVARIANCE ON BOUND STATE ENERGY LEVELS. Sep 1995. 10p.
 By Antonio Vairo (Bologna U. and INFN, Bologna) - Talk given at NATO
 Advanced Study Institute: Electron Theory and Quantum Electrodynamics
 - 100 Years Later, Edirne, Turkey, 5-16 Sep 1994 {Archive:
 hep-ph@xxx.lanl.gov - 9609264}

Abstract and Paper

DTP-96-35 THEOR
STATIC SOLITONS WITH NONZERO HOPF NUMBER. Sep 1996. 13p.
 By Jens Gladikowski, Meik Hellmund (Durham U.) {Archive:
 hep-th@xxx.lanl.gov - 9609035}

Abstract and Paper

DTP-96-76 EXP, THEOR
GLUON RADIATION IN T ANTI-T PRODUCTION AND DECAY AT THE LHC.
 Aug 1996. 16p.
 By Lynne H. Orr (Rochester U.), T. Stelzer (Illinois U., Urbana),
 W.J. Stirling (Durham U.) {Archive: hep-ph@xxx.lanl.gov -
 9609246}

Abstract and Paper

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THEOR

DUKE-TH-96-130

EXTREMAL TRANSITIONS AND FIVE-DIMENSIONAL SUPERSYMMETRIC FIELD THEORIES.

Sep 1996. 21p.

By David R. Morrison (Duke U.), Nathan Seiberg (Rutgers U., Piscataway) {Archive: hep-th@xxx.lanl.gov - 9609070}Abstract and Paper

THEOR

ECT-96-017

SYMMETRIES OF ANISOTROPIC HARMONIC OSCILLATORS WITH RATIONAL RATIOS OF FREQUENCIES AND THEIR RELATIONS TO $U(N)$ AND $O(N+1)$.

May 1996. 14p.

By Dennis Bonatsos (ECT, Trento and Democritos Nuclear Research Center), C. Daskaloyannis (Thessaloniki U.), P. Kolokotronis, D. Lenis (Democritos Nuclear Research Center) - Lectures given at 7th Hellenic Symposium on Nuclear Physics, Athens, Greece, 24-25 May 1996

THEOR

ECT-96-019

CONNECTIONS BETWEEN $U(N)$, $O(N+1)$ AND ANISOTROPIC HARMONIC OSCILLATORS WITH RATIONAL RATIOS OF FREQUENCIES. n.d. 23p.

By Dennis Bonatsos (ECT, Trento and Democritos Nuclear Research Center), C. Daskaloyannis (Thessaloniki U.), P. Kolokotronis, D. Lenis (Democritos Nuclear Research Center)

THEOR

ECT-96-020

SIMPLIFIED BOSON REALIZATION OF THE $SO-Q(3)$ SUBALGEBRA OF $U-Q(3)$ AND MATRIX ELEMENTS OF $SO-Q(3)$ QUADRUPOLE OPERATORS. n.d. 16p.

By Dennis Bonatsos (ECT, Trento and Democritos Nuclear Research Center), N. Lo Iudice (Naples U., IFT), P.P. Raychev (Naples U., IFT and Sofiya, Inst. Nucl. Res.), R.P. Roussev, P.A. Terzev (Sofiya, Inst. Nucl. Res.)

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ENSLAPP-A-614-96

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