

Physics of the B Factories: Computing Issues

<http://www.slac.stanford.edu/xorg/BFLB/>

2nd Physics of B-factories Meeting

KEK, Tsukuba, Japan

17th - 18st May 2010

http://www.slac.stanford.edu/xorg/BFLB/Workshop_KEK/Welcome.html

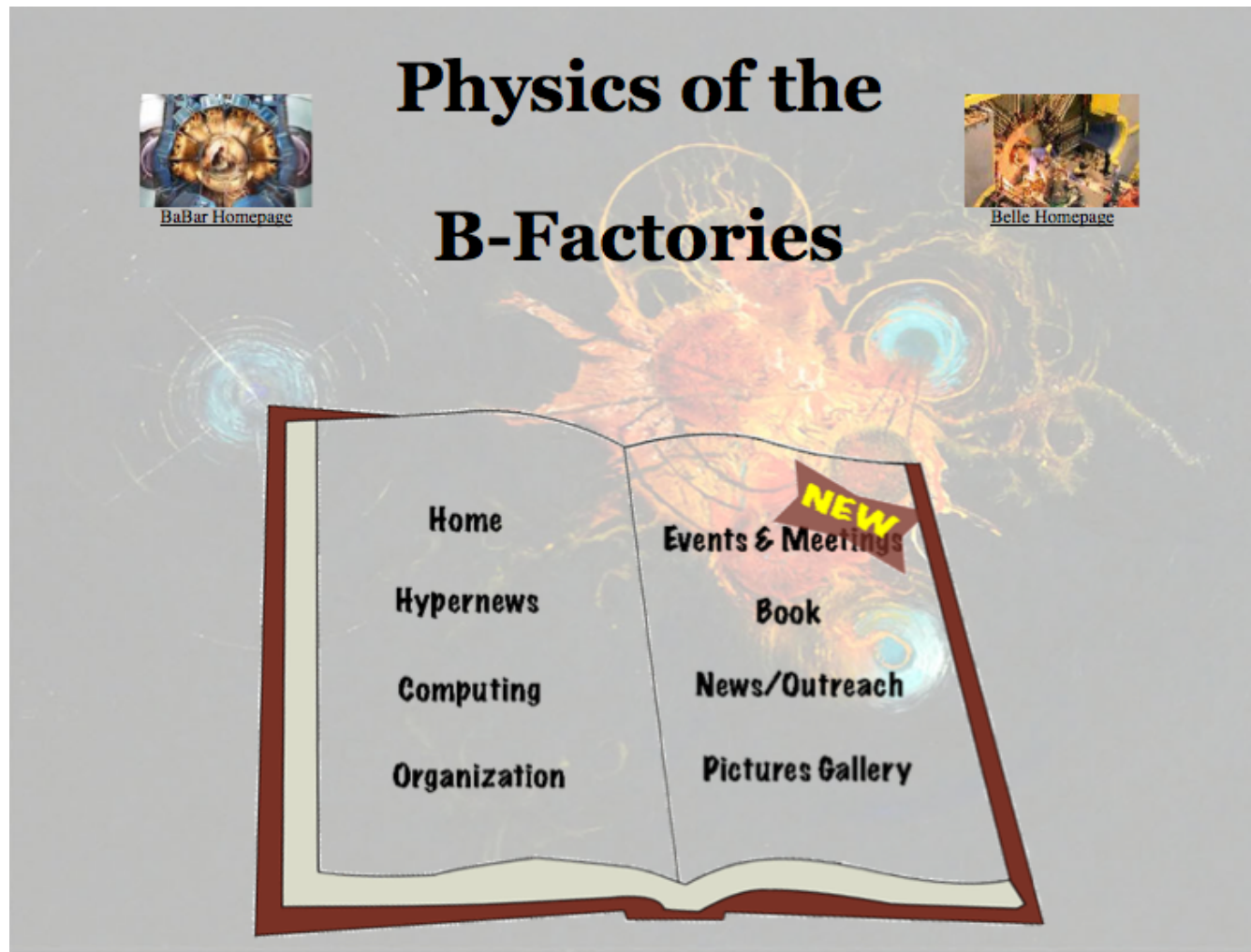
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Overview

- Previous talk on computing: H. Neal Oct. 2009:
[http://indico.in2p3.fr/getFile.py/access?
contribId=43&resId=0&materialId=slides&confId=2293](http://indico.in2p3.fr/getFile.py/access?contribId=43&resId=0&materialId=slides&confId=2293)

- This talk:
 - Recap some of the issues discussed at SLAC in October 2009.
 - [Website](#)
 - [Hypernews](#) → [Mail fora](#) for communication.
 - [How to obtain a SLAC account for the bflb group.](#)
 - Provide information on how to access the SVN repository, so that people can check out, modify and commit changes to the book.
 - [You will need to obtain a SLAC account for this.](#)
 - [And then take a Cyber security test.](#)

Web Page



<http://www.slac.stanford.edu/xorg/BFLB/>

Web Page



- Information under different headings is being maintained.
 - e.g. section editors from Theory/Belle/BaBar are now included.
 - Contributors to be added: section editors should tell us whom to add!

Hypernews: New member Application Form:

New Membership page for BFLB HyperNews at hypernews.slac.stanford.edu

Member: homer (logout)

This page describes how to register as a new member of the BFLB HyperNews at hypernews.slac.stanford.edu HyperNews. Once you are a member, this can be used to access all forums at this site.

- To **register** as a new member, first make up a User ID and enter it immediately below. Make it something that you can remember and easily type - it may be a "nickname". Then fill in the rest of the form. You *should* provide a Name since it is used to identify you in messages. You *must* provide a new password since it protects you from unauthorized use of your User ID. Finally, click on the Register button.

User ID (nickname, no spaces, no '@', case sensitive):

homer

Email and Subscription Options

BFLB HyperNews at hypernews.slac.stanford.edu will send you email each time you update your membership information. BFLB HyperNews at hypernews.slac.stanford.edu will also send you new postings via email if you "subscribe" to forums. A full internet Email address is required for this purpose. If you get a new email address, you can update your HyperNews email address here.

Email Address: (example: jdoe@my.home.net, case sensitive)

- | | | |
|----|-------------------------|-----------|
| 1. | homer@slac.stanford.edu | (Primary) |
| 2. | | |
| 3. | | |
| 4. | | |
| 5. | | |

The CZAR will be Soeren PRELL with Charlotte and Homer as backups.

Hide my Email Address:

- Do not show my Email address in messages or member lists.

Hypernews: New member Application Form:pg 2

Subscribe to:

- Only what I specify in each forum.
 - Nothing - Please **UNSUBSCRIBE** me from all forums at BFLB HyperNews at hypernews.slac.stanford.edu.
-

Personal Data

Please tell us about yourself. Your *Name* is used to identify you in your messages; otherwise your Email address or User ID is used. You can leave any of these fields blank, if you would prefer.

Name (example: John Doe):

Personal Home Page URL (example: <http://my.home.net/>):

Reason for This New Account: (example: referral, affiliation, etc) [Note: the account is moderated on this site.]

To specify your password, enter a new password here twice. You may use up to 8 characters. Note that BFLB HyperNews at hypernews.slac.stanford.edu does not store your password in unencrypted form, so if you forget it, you will need to ask for a new password.

DO NOT USE YOUR INTERNET LOGIN PASSWORD.

New Password:

New Password again:

Working on the Book: Accounts at SLAC

- The project is stored in the SVN version control software archive.
- To access this you will need an account at SLAC.
 - We expect the section editors to all have accounts.
 - Some of the active contributors may also require accounts if the section editors prefer they commit straight to SVN without.
 - The account creation process is relatively quick – but if you think you need an account, please arrange one now.
- Your account need to be a member of the bflb group.
 - [if you already have a SLAC account without this group privilege, please e-mail Soeren]

Getting a SLAC Account

SLAC New User Form Logout

Page 1: Information form for new SLAC USERS and current SLAC employees working on a SLAC Research Activity.

The following information will help us determine what additional information you will need to provide in order to add you to the SLAC user information system. Please contact the [SLUC administrators](#) if you have any questions or problems.

INITIAL INFORMATION	
Name Last (Family)	<input type="text"/> First <input type="text"/> Middle <input type="text"/>
Are you a SLAC EMPLOYEE who is becoming a SLAC USER	(select) ACD ==> Advanced Computations Department ADMIN ==> Administrative people in support of research activities AGIS ==> Advanced Gamma-ray Imaging System ANITA ==> ATLAS ==> BABAR ==> Program to study CP violation and heavy quark flavor physics at PEP II BFLB ==> BFacility Legacy Book
While at SLAC will you be a student or employee of	
Your employment classification	Beam Physics ==> Study of Beam Dynamics CDMS ==> Cryo Dark Matter Search COMPUTING ==> Research activities in computing at SCS not associated with other experiments E-163 ==> Laser Acceleration of Particles E-164 ==> High Gradient Plasma Wakefield E-164X ==> High Gradient Plasma Wakefield E-167 ==> High Gradient Plasma Wakefield EXO ==> Double Beta Decay GLAST ==> SPACE-BASED GAMMA RAY CAMERA Heavy Flavor Averaging Group ==> High Gradient ==> High Gradient Studies LC ==> Research activities for development of the NLC
Your work type	
Will you physically work at SLAC for any amount of time	
Are you a Summer Intern/rotation	
Will you be using any SLAC computing resources	
Experiment you will be working on	(select)
Are you a US citizen	<input type="radio"/> Yes <input type="radio"/> No

Find: Match case

Select BFLB group

<http://www2.slac.stanford.edu/comp/slacwide/account/account.html>

Don't forget to also do the Cyber Security test (same URL).

Group membership: bflb

- The Physics of the B Factories activity uses the group bflb.
- Once you have an account you can check that you are a member of bflb using `ypgroup membership`:

```
[yakut15] ~ $ ypgroup membership
User 'bevan' is member of the following NIS groups:
→ bflb
  twobody
  bfact-b
```

- If you are not a member of this group, please contact Soeren and ask to be made a member (this should only affect people who already have SLAC accounts with another group; i.e. [ex-] BaBar members).
 - If you already have a SLAC account, but are not a member of the bflb group, please let me know at this meeting so that I can ask for this to be fixed.
 - If you realise this is a problem after the meeting, please contact Homer or Charlotte.

Accessing the latex: SVN

- SVN is like CVS:
 - Modern incarnation that is 'better' than CVS.
 - Similar syntax.
 - SVN is what you've just used for the Belle TDR/SuperB White Papers.
- There is a layout for the book to help you organise your contributions.

- | | |
|--------------------------------------|------------------------------|
| ■ Project: | Book/ |
| ■ Working area [CVS HEAD/SVN trunk]: | Book/trunk/ |
| ■ Sections: | sub-directories
in trunk. |
| ■ Instructions: | Book/README |

Checking out the book

- The following command (issued from a SLAC computer) will check out the book:

```
svn checkout file:///nfs/slac/g/bflb/svn/Book
```

- Then you can:

```
cd Book/trunk/
```

- To change to the directory containing the latex.

Book/README contains the information (and example commands) you will need in order to start contributing to the book. So once you have checked out the latex, you won't need to refer back to this presentation for common svn commands. More information on SVN can be found at the following URL:

```
http://svnbook.red-bean.com/
```

Checking out the book

- We are in the process of setting the latex up, and should be able to announce this soon.
- After this has been done you will see many files and directories in `Book/trunk`.
- There are directories: one for each section.
- and latex file 'entry points': one for each section, and one for all sections.
 - These can be used to compile either a section, or the whole book.
 - An up-to-date copy of these compiled latex (as a pdf file) will be stored on the web site at SLAC.

Committing changes back to SVN

- Always update to merge your version with the latest updates in the repository:
 - `svn update`
- If there are conflicts between versions, resolve these by hand.
- Then commit the changes:
 - `svn commit -m 'some useful message'`
- You can check the differences between your version of the book and the trunk with:
 - `svn diff`

Summary

- What account(s) do you need?

Account	View Drafts	Read/Write Hypernews	Actively work on latex
none	yes	—	—
hypernews (HN)	yes	yes	—
SLAC + HN	yes	yes	yes

- Soon we will widely advertise when the latex is put into SVN and ready for people to work with.
- From now on we will exclusively use the hypernews for communication.

Thanks to...

- SLAC computing for agreeing to administer the project on behalf of the community.
- Charlotte Hee and Homer Neal for computing support in managing the Hypernews system and setting up the SVN repository at SLAC for our use.
- Sarodia for maintaining the web site for us.
- Soeren for agreeing to process approvals for account requests.