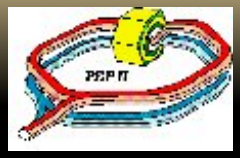


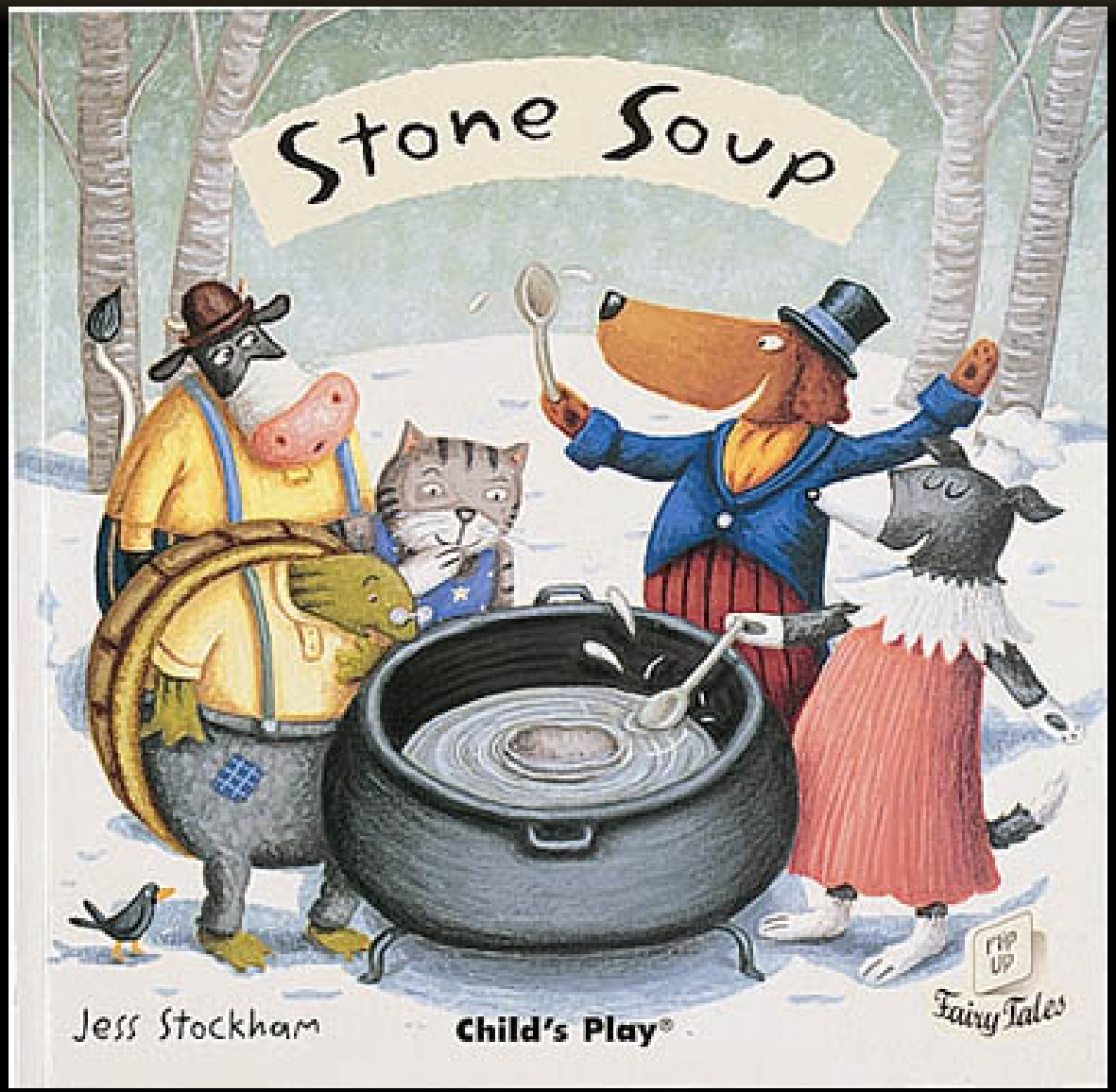
Sharing Knowledge: MediaWiki and other collaborative tools

M. Bellis

Department of Physics
Stanford University

June 21st, 2011

Outline



What's a good stone? Who's bringing the pot?

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- First Wiki from Ward Cunningham in 1995 (*WikiWikiWeb*)[1]

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- Allows for creating and editing content on a website **in a browser**.
- Various *markup languages* for changing style of material.
- Wikipedia is most ubiquitous (best?) example.
  - Makes use of the MediaWiki implementation.
    http://www.mediawiki.org/wiki/MediaWiki

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My Wiki experience

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- Used a laptop MediaWiki installation for notes.
- Installed a MediaWiki setup for our local analysis group (4-6 users).
- Jefferson Lab now supports MediaWiki for internal use and is *widely used by the community.*
  - Hall-B

    http://clasweb.jlab.org/wiki/index.php/Main_Page
  - Hall-D

    http://www.jlab.org/Hall-D/software/wiki/index.php/Main_Page

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- Full-court press for a Wiki starting in 2009 for both current and LTDA effort.
- Goal was to migrate old HTML pages to a more modern framework.
  - We were offered Confluence, but we (many, but not all) preferred MediaWiki.

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- Why not TWiki, TiddlyWiki, etc.?
  - **Follow the big dog (Wikipedia)**.

BaBar Wiki

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- As of 06/16/11:
  - **337** content pages.
  - **342** uploaded files.
  - **7278** edits.
  - **147** registered users.
  - **33** have edited it.
  - **25713** views.

BaBar Wiki


The BaBar Homepage
www.slac.stanford.edu/BFROOT/
Matt Bellis
Docs
Gmail
Calendar
BaBarWiki
BurchatWiki
Voice
Inspire
NIU FF
SLAC FF
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Other Bookmarks
Personnel
Glossary
Sitemap
Search
Hypernews
BABAR
Collaboration Home Page
Organization
Detector
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Physics
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This home page is intended for our collaborators. It is hosted at SLAC and RAL. Public pages for SLAC, BaBar, and PEP-II are available below.
SLAC
NATIONAL ACCELERATOR LABORATORY
The BaBar detector was built at SLAC to study the millions of B mesons produced by the PEP-II storage ring. The BaBar Collaboration consists of approximately 600 physicists and engineers from 75 institutions in 10 countries.
BaBar Public Information & Visitor Pages
Try the new BaBar Wiki ... currently under development; UNIX password required.
Safety: [Safety & Compliance Reference]
Quick Links: [Joining BaBar] [Offline Users Workbook] [CM2 Intro] [BaBar Web Info] [SLUO]
Employment: [Employment Opportunities in High Energy Physics] [Employment Opportunities at SLAC]
External links: [HEPIC] [Databases] [HFAG] [PDG] [HEP preprints]
Stanford Guest House (at SLAC):
accepting reservations!
Events of Interest: [Physics Events]
Service Task Openings: [Service Task]
Research Associate position opened for Babar at SLAC. See one of the following links for details: BaBar RA linked from the SLAC Career pages or from SPIRES
We have several service tasks that urgently need to be filled. Please see the Service Task Openings page for more information.
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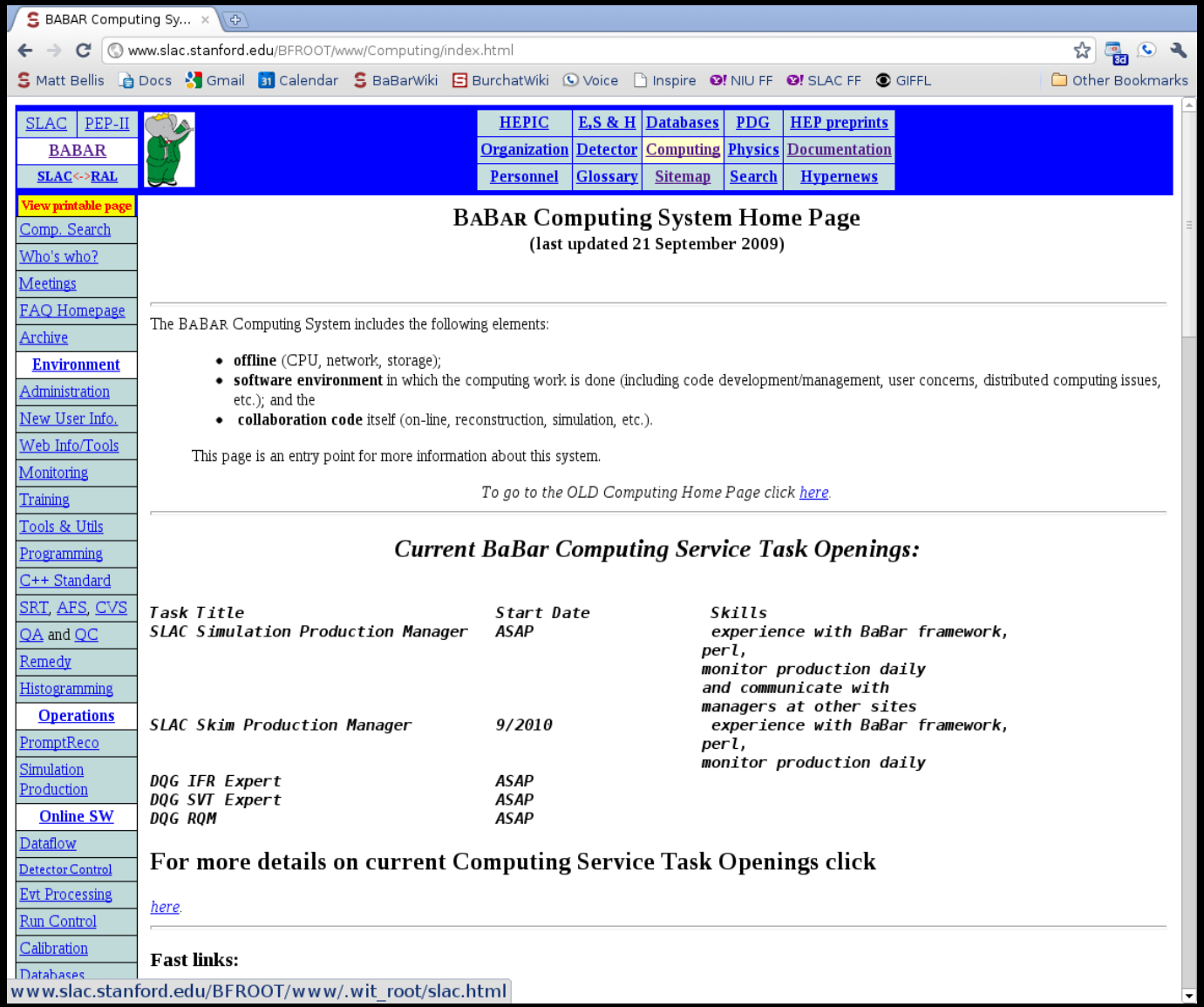
Babar 2010 Calendar , Babar 2011 Calendar
ICHEP 2010 - July 2010 , 22nd to 28th , Paris, France
Babar Collaboration at Berlin , October 4-7, 2010 , Agenda (pdf)(html) (Deadline For Registration -August 23rd, 2010)
Proposal Babar-Belle Legacy Book -White Paper 03-2009 (pdf)
The BaBar Collaboration's statement. for the public explaining the 2008 Nobel Prize in Physics is now available.
The 2008 Nobel Prize in Physics was awarded to Kobayashi, Maskawa, and Nambu for their work on symmetry breaking and CP violation. Understanding the origins
experimental programs of both the BaBar and Belle experiments, which were mentioned by name in the Nobel press
www.slac.stanford.edu/BFROOT/BABAR.html

BaBar Wiki


BABAR Computing Sy...
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SLAC<->RAL
HEPIC
E,S & H
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PDG
HEP preprints
Organization
Detector
Computing
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Hypernews
View printable page
Comp. Search
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FAQ Homepage
Archive
Environment
Administration
New User Info.
Web Info/Tools
Monitoring
Training
Tools & Utils
Programming
C++ Standard
SRT, AFS, CVS
QA and QC
Remedy
Histogramming
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PromptReco
Simulation Production
Online SW
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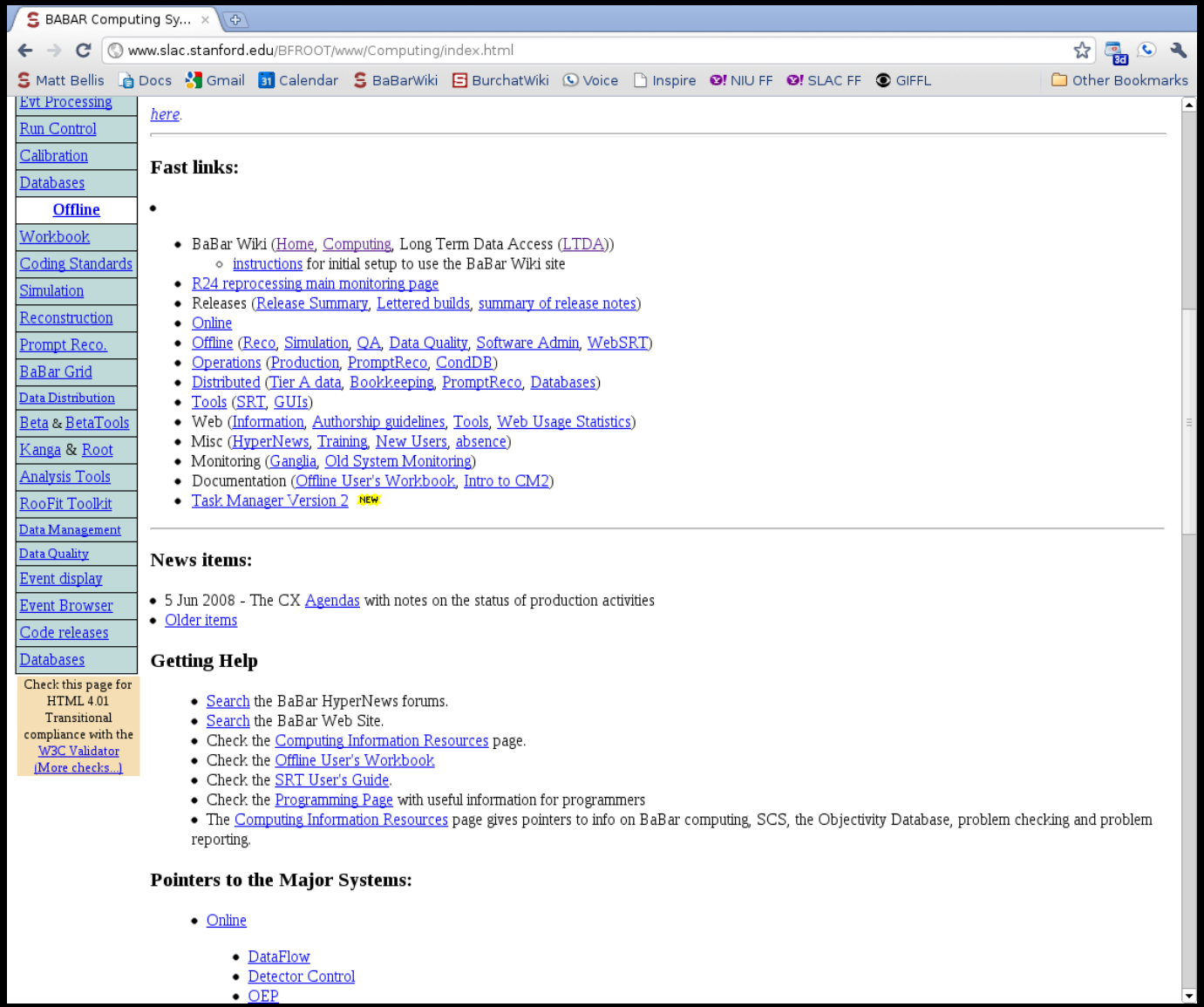
BABAR Computing System Home Page
(last updated 21 September 2009)
The BABAR Computing System includes the following elements:
offline (CPU, network, storage);
software environment in which the computing work is done (including code development/management, user concerns, distributed computing issues, etc.); and the
collaboration code itself (on-line, reconstruction, simulation, etc.).
This page is an entry point for more information about this system.
To go to the OLD Computing Home Page click here.
Current BaBar Computing Service Task Openings:
Task Title
Start Date
Skills
SLAC Simulation Production Manager
ASAP
experience with BaBar framework, perl, monitor production daily and communicate with managers at other sites
SLAC Skim Production Manager
9/2010
experience with BaBar framework, perl, monitor production daily
DQG IFR Expert
ASAP
DQG SVT Expert
ASAP
DQG RQM
ASAP
For more details on current Computing Service Task Openings click
here.
Fast links:
www.slac.stanford.edu/BFROOT/www/.wit_root/slac.html

BaBar Wiki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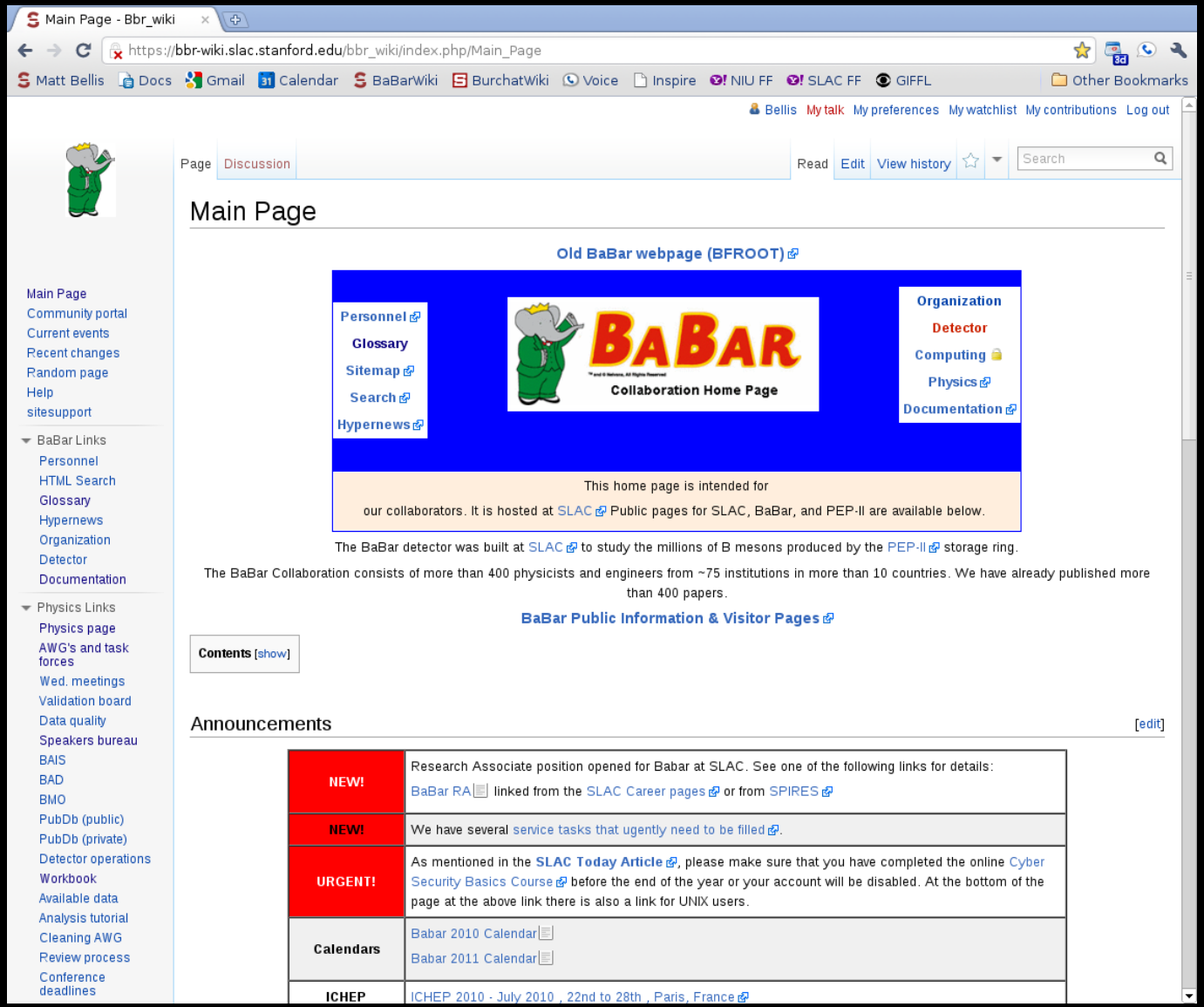
Run Control
Calibration
Databases
Offline
Workbook
Coding Standards
Simulation
Reconstruction
Prompt Reco.
BaBar Grid
Data Distribution
Beta & BetaTools
Kanga & Root
Analysis Tools
RooFit Toolkit
Data Management
Data Quality
Event display
Event Browser
Code releases
Databases
Check this page for HTML 4.01 Transitional compliance with the W3C Validator (More checks...)
here.
Fast links:
BaBar Wiki (Home, Computing, Long Term Data Access (LTDA))
instructions for initial setup to use the BaBar Wiki site
R24 reprocessing main monitoring page
Releases (Release Summary, Lettered builds, summary of release notes)
Online
Offline (Reco, Simulation, QA, Data Quality, Software Admin, WebSRT)
Operations (Production, PromptReco, CondDB)
Distributed (Tier A data, Bookkeeping, PromptReco, Databases)
Tools (SRT, GUIs)
Web (Information, Authorship guidelines, Tools, Web Usage Statistics)
Misc (HyperNews, Training, New Users, absence)
Monitoring (Ganglia, Old System Monitoring)
Documentation (Offline User's Workbook, Intro to CM2)
Task Manager Version 2 NEW
News items:
5 Jun 2008 - The CX Agendas with notes on the status of production activities
Older items
Getting Help
Search the BaBar HyperNews forums.
Search the BaBar Web Site.
Check the Computing Information Resources page.
Check the Offline User's Workbook
Check the SRT User's Guide.
Check the Programming Page with useful information for programmers
The Computing Information Resources page gives pointers to info on BaBar computing, SCS, the Objectivity Database, problem checking and problem reporting.
Pointers to the Major Systems:
Online
DataFlow
Detector Control
OEP

BaBar Wiki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Hypernews
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Collaboration Home Page
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Computing
Physics
Documentation
This home page is intended for
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Speakers bureau
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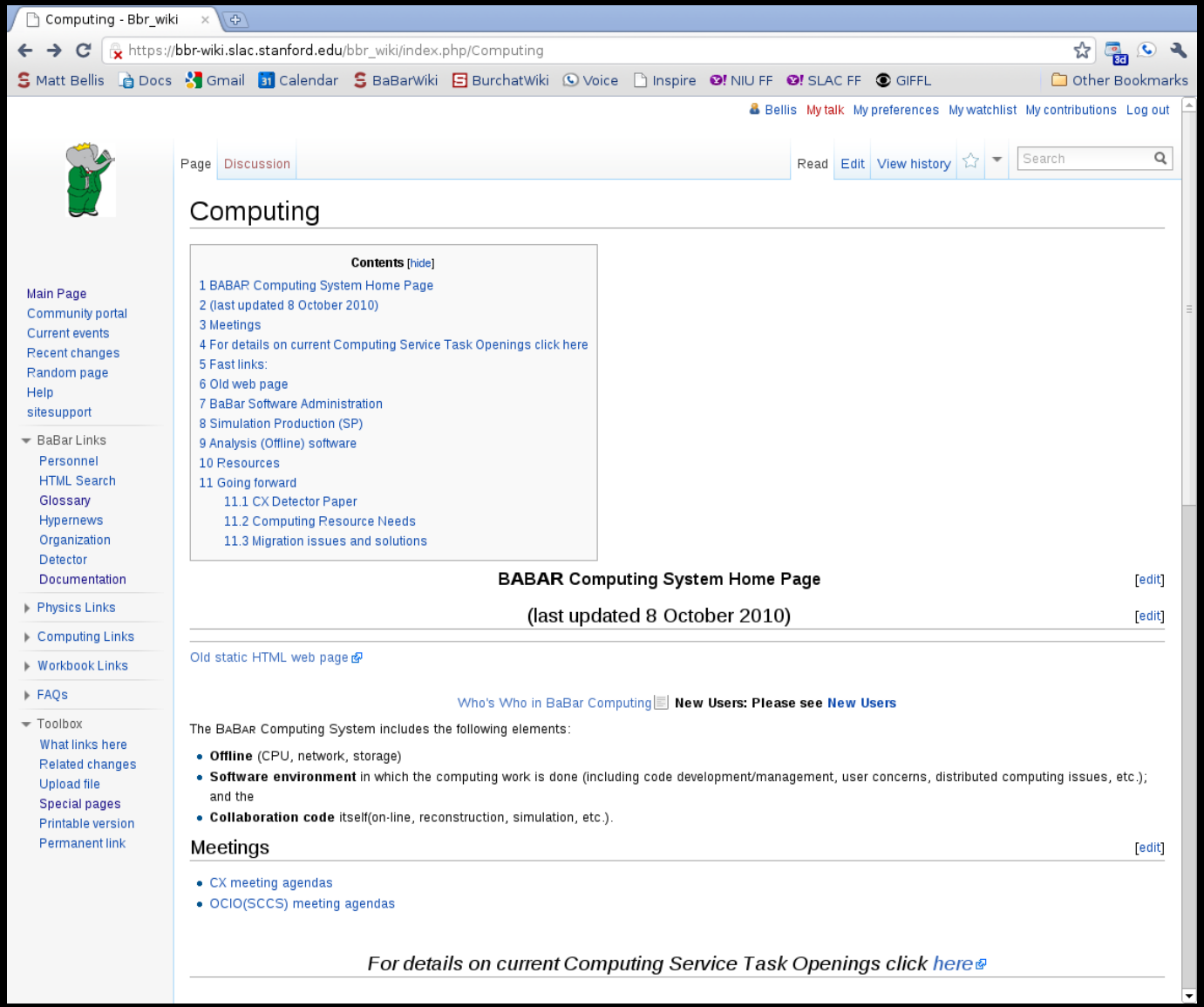
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5 Fast links:
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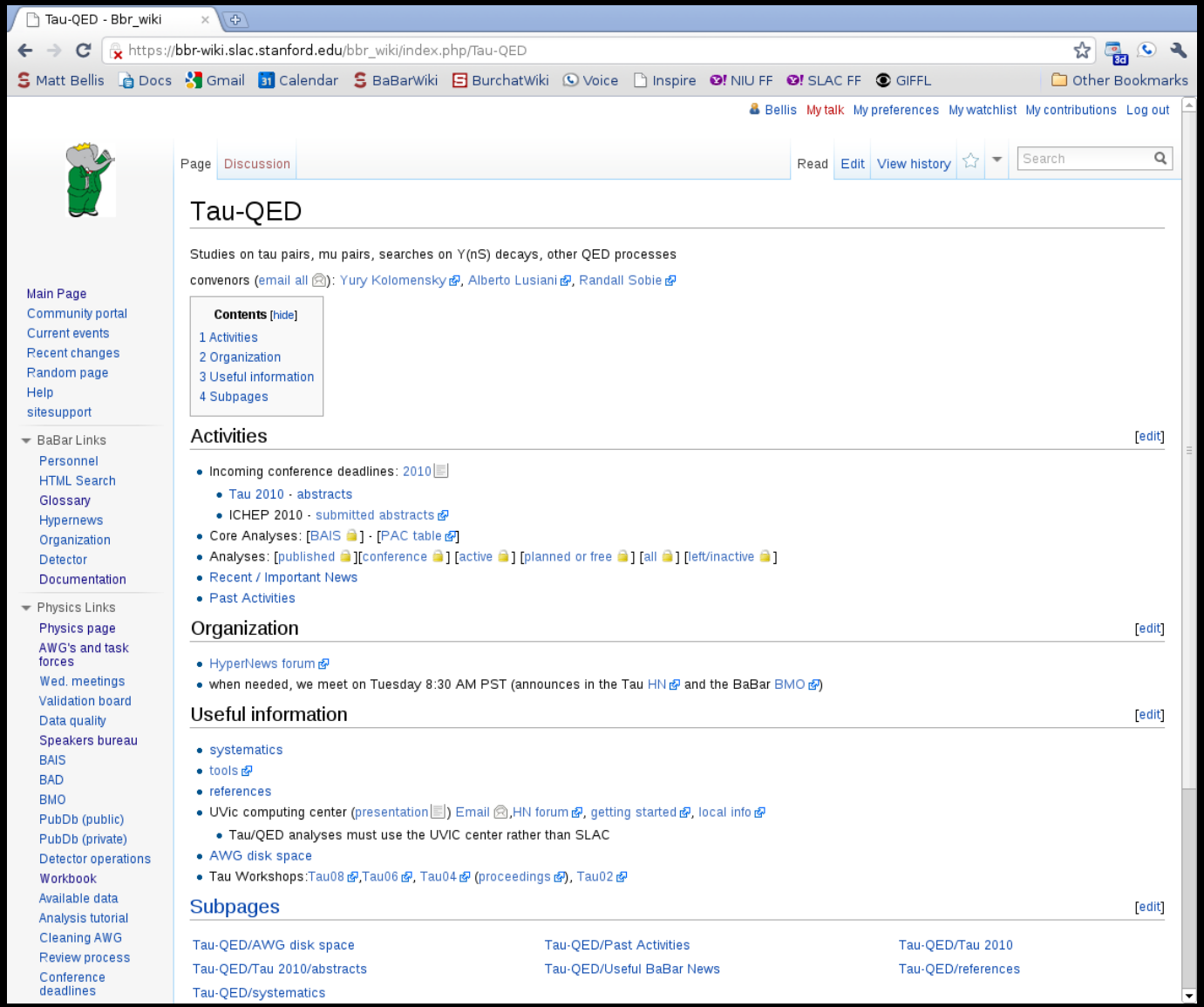
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convenors (email all): Yury Kolomensky, Alberto Lusiani, Randall Sobie
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2 Organization
3 Useful information
4 Subpages
Activities [edit]
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Tau 2010 - abstracts
ICHEP 2010 - submitted abstracts
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Analyses: [published][conference] [active] [planned or free] [all] [left/inactive]
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when needed, we meet on Tuesday 8:30 AM PST (announces in the Tau HN and the BaBar BMO)
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UVic computing center (presentation) Email,HN forum, getting started, local info
Tau/QED analyses must use the UVIC center rather than SLAC
AWG disk space
Tau Workshops:Tau08,Tau06, Tau04 (proceedings), Tau02
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Tau-QED/Past Activities
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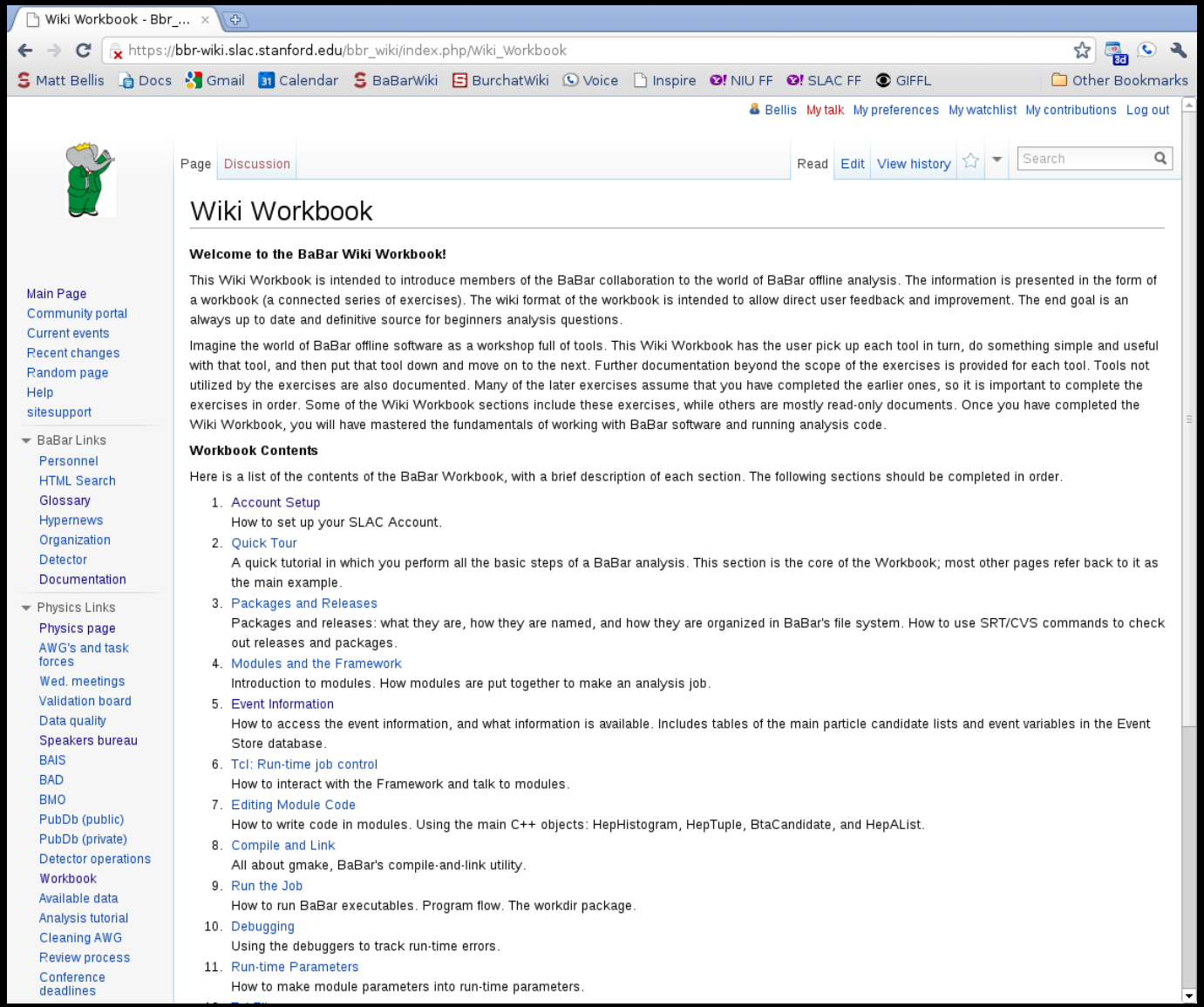
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Wiki Workbook
Welcome to the BaBar Wiki Workbook!
This Wiki Workbook is intended to introduce members of the BaBar collaboration to the world of BaBar offline analysis. The information is presented in the form of a workbook (a connected series of exercises). The wiki format of the workbook is intended to allow direct user feedback and improvement. The end goal is an always up to date and definitive source for beginners analysis questions.
Imagine the world of BaBar offline software as a workshop full of tools. This Wiki Workbook has the user pick up each tool in turn, do something simple and useful with that tool, and then put that tool down and move on to the next. Further documentation beyond the scope of the exercises is provided for each tool. Tools not utilized by the exercises are also documented. Many of the later exercises assume that you have completed the earlier ones, so it is important to complete the exercises in order. Some of the Wiki Workbook sections include these exercises, while others are mostly read-only documents. Once you have completed the Wiki Workbook, you will have mastered the fundamentals of working with BaBar software and running analysis code.
Workbook Contents
Here is a list of the contents of the BaBar Workbook, with a brief description of each section. The following sections should be completed in order.
1. Account Setup
How to set up your SLAC Account.
2. Quick Tour
A quick tutorial in which you perform all the basic steps of a BaBar analysis. This section is the core of the Workbook; most other pages refer back to it as the main example.
3. Packages and Releases
Packages and releases: what they are, how they are named, and how they are organized in BaBar's file system. How to use SRT/CVS commands to check out releases and packages.
4. Modules and the Framework
Introduction to modules. How modules are put together to make an analysis job.
5. Event Information
How to access the event information, and what information is available. Includes tables of the main particle candidate lists and event variables in the Event Store database.
6. Tcl: Run-time job control
How to interact with the Framework and talk to modules.
7. Editing Module Code
How to write code in modules. Using the main C++ objects: HepHistogram, HepTuple, BtaCandidate, and HepAList.
8. Compile and Link
All about gmake, BaBar's compile-and-link utility.
9. Run the Job
How to run BaBar executables. Program flow. The workdir package.
10. Debugging
Using the debuggers to track run-time errors.
11. Run-time Parameters
How to make module parameters into run-time parameters.
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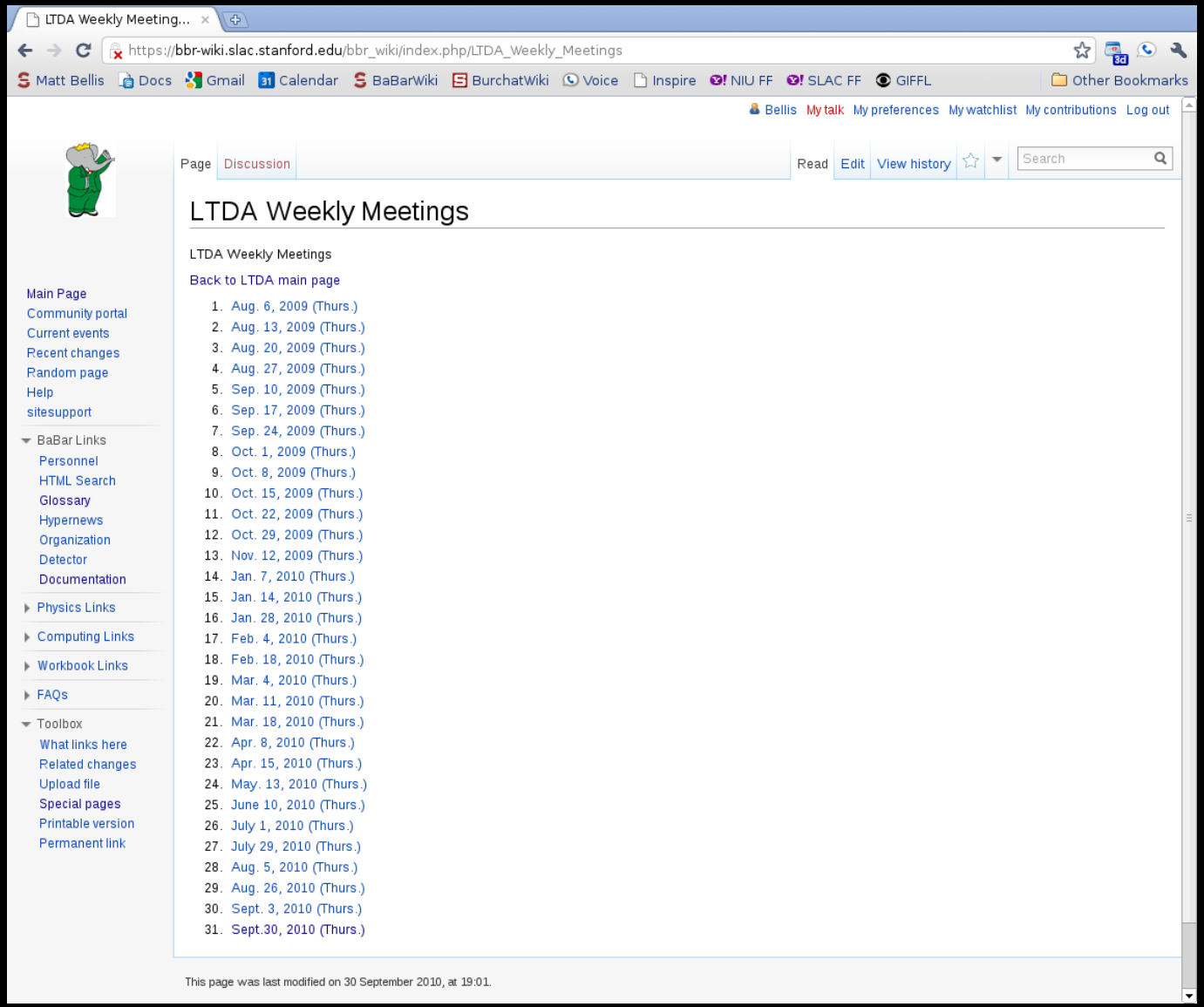
Conference deadlines

BaBar Wiki


LTDA Weekly Meeting...
https://bbr-wiki.slac.stanford.edu/bbr_wiki/index.php/LTDA_Weekly_Meetings
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BaBarWiki
BurchatWiki
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1. Aug. 6, 2009 (Thurs.)
2. Aug. 13, 2009 (Thurs.)
3. Aug. 20, 2009 (Thurs.)
4. Aug. 27, 2009 (Thurs.)
5. Sep. 10, 2009 (Thurs.)
6. Sep. 17, 2009 (Thurs.)
7. Sep. 24, 2009 (Thurs.)
8. Oct. 1, 2009 (Thurs.)
9. Oct. 8, 2009 (Thurs.)
10. Oct. 15, 2009 (Thurs.)
11. Oct. 22, 2009 (Thurs.)
12. Oct. 29, 2009 (Thurs.)
13. Nov. 12, 2009 (Thurs.)
14. Jan. 7, 2010 (Thurs.)
15. Jan. 14, 2010 (Thurs.)
16. Jan. 28, 2010 (Thurs.)
17. Feb. 4, 2010 (Thurs.)
18. Feb. 18, 2010 (Thurs.)
19. Mar. 4, 2010 (Thurs.)
20. Mar. 11, 2010 (Thurs.)
21. Mar. 18, 2010 (Thurs.)
22. Apr. 8, 2010 (Thurs.)
23. Apr. 15, 2010 (Thurs.)
24. May. 13, 2010 (Thurs.)
25. June 10, 2010 (Thurs.)
26. July 1, 2010 (Thurs.)
27. July 29, 2010 (Thurs.)
28. Aug. 5, 2010 (Thurs.)
29. Aug. 26, 2010 (Thurs.)
30. Sept. 3, 2010 (Thurs.)
31. Sept.30, 2010 (Thurs.)
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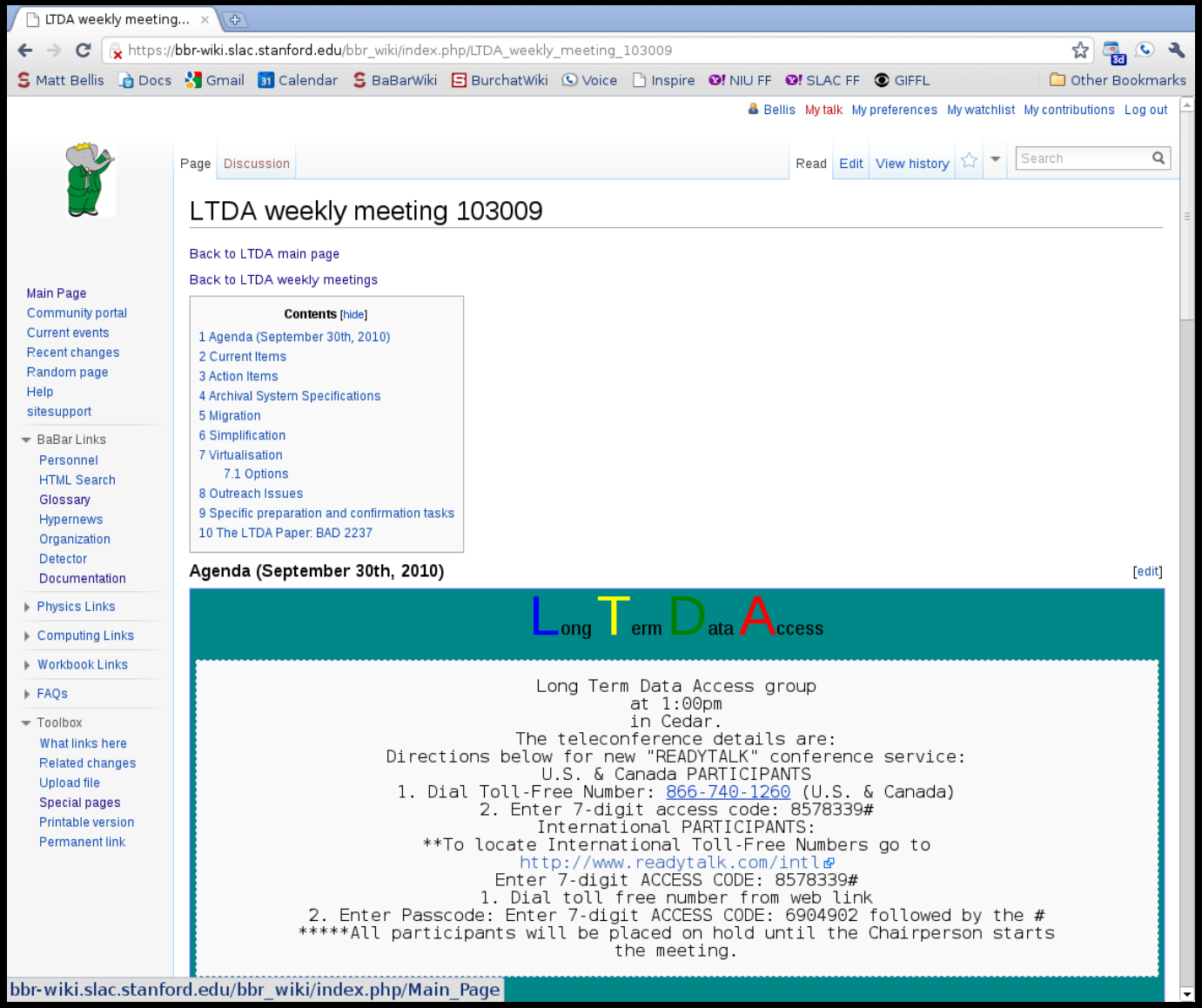
LTDA weekly meeting...
https://bbr-wiki.slac.stanford.edu/bbr_wiki/index.php/LTDA_weekly_meeting_103009
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2 Current Items
3 Action Items
4 Archival System Specifications
5 Migration
6 Simplification
7 Virtualisation
7.1 Options
8 Outreach Issues
9 Specific preparation and confirmation tasks
10 The LTDA Paper: BAD 2237
Agenda (September 30th, 2010)
[edit]
Long Term Data Access
Long Term Data Access group
at 1:00pm
in Cedar.
The teleconference details are:
Directions below for new "READYTALK" conference service:
U.S. & Canada PARTICIPANTS
1. Dial Toll-Free Number: 866-740-1260 (U.S. & Canada)
2. Enter 7-digit access code: 8578339#
International PARTICIPANTS:
**To locate International Toll-Free Numbers go to
http://www.readytalk.com/intl
Enter 7-digit ACCESS CODE: 8578339#
1. Dial toll free number from web link
2. Enter Passcode: Enter 7-digit ACCESS CODE: 6904902 followed by the #
*****All participants will be placed on hold until the Chairperson starts
the meeting.
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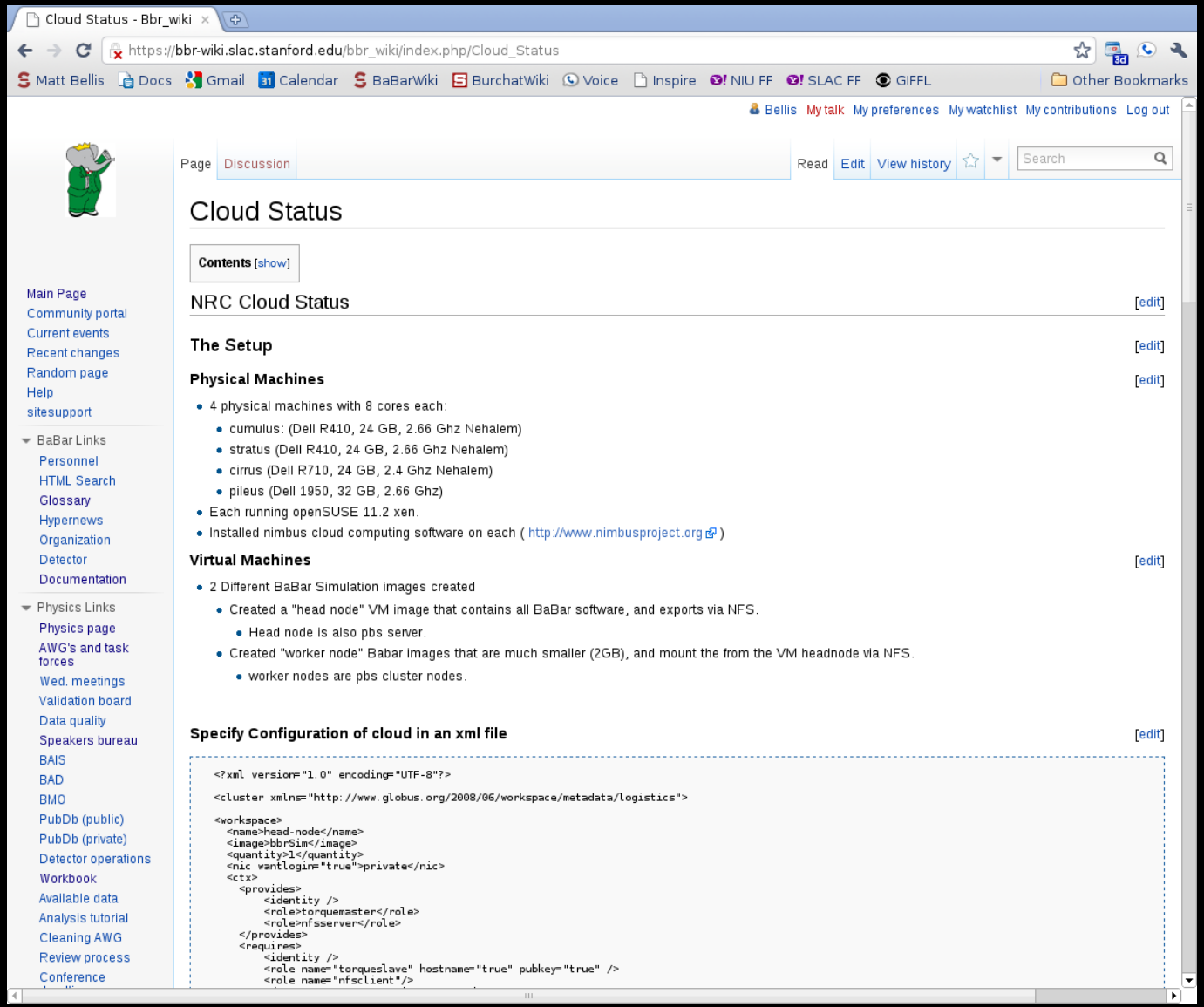
bbr-wiki.slac.stanford.edu/bbr_wiki/index.php/Main_Page

BaBar Wiki


Cloud Status - Bbr_wiki
https://bbr-wiki.slac.stanford.edu/bbr_wiki/index.php/Cloud_Status
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Cleaning AWG
Review process
Conference
NRC Cloud Status [edit]
The Setup [edit]
Physical Machines [edit]
4 physical machines with 8 cores each:
cumulus: (Dell R410, 24 GB, 2.66 Ghz Nehalem)
stratus (Dell R410, 24 GB, 2.66 Ghz Nehalem)
cirrus (Dell R710, 24 GB, 2.4 Ghz Nehalem)
pileus (Dell 1950, 32 GB, 2.66 Ghz)
Each running openSUSE 11.2 xen.
Installed nimbus cloud computing software on each (http://www.nimbusproject.org)
Virtual Machines [edit]
2 Different BaBar Simulation images created
Created a "head node" VM image that contains all BaBar software, and exports via NFS.
Head node is also pbs server.
Created "worker node" Babar images that are much smaller (2GB), and mount the from the VM headnode via NFS.
worker nodes are pbs cluster nodes.
Specify Configuration of cloud in an xml file [edit]
<?xml version="1.0" encoding="UTF-8"?>
<cluster xmlns="http://www.globus.org/2008/06/workspace/metadata/logistics">
<workspace>
<name>head-node</name>
<image>bbrSim</image>
<quantity>1</quantity>
<nic wantlogin="true">private</nic>
<ctx>
<provides>
<identity />
<role>torquemaster</role>
<role>nfsserver</role>
</provides>
<requires>
<identity />
<role name="torqueslave" hostname="true" pubkey="true" />
<role name="nfsclient"/>

Cloud Status - Bbr_wiki

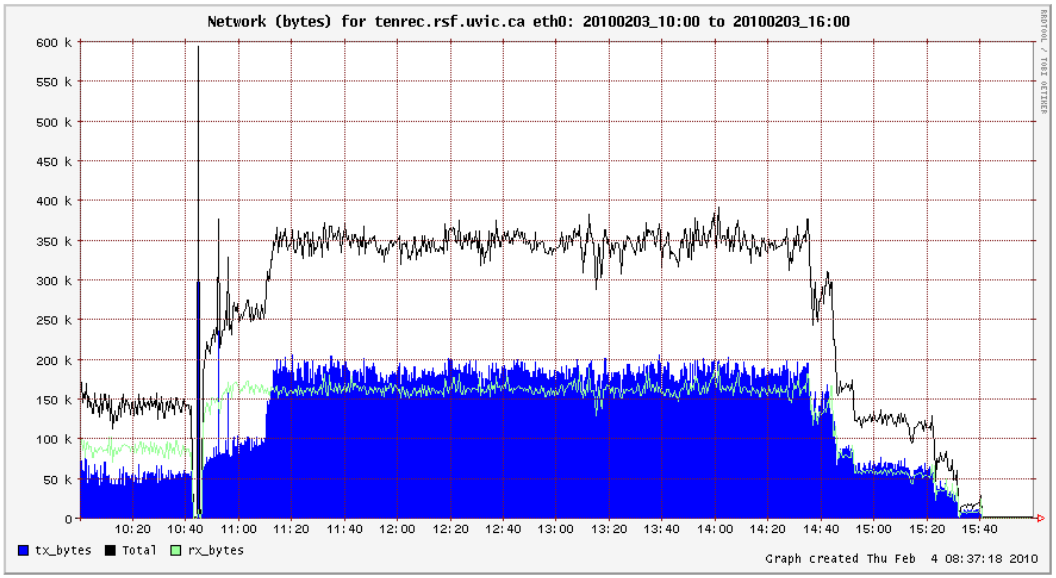
https://bbr-wiki.slac.stanford.edu/bbr_wiki/index.php/Cloud_Status

Matt Bellis | Docs | Gmail | Calendar | BaBarWiki | BurchatWiki | Voice | Inspire | NIU FF | SLAC FF | GIFFL | Other Bookmarks

```
* stratus: (Dell R410, 24 GB, 2.66 Ghz Nehalem) 9 worker node vms
* cirrus: (Dell R710, 24 GB, 2.4 Ghz Nehalem) 3 worker node vms
* pileus: (Dell 1950, 32 GB, 2.66 Ghz) 8 worker node vms
```

Data Rates [edit]

- Network plot of UVic's sshfs host



What's next [edit]

- I'd like to run the simulation validation scripts on the cloud.
  - Can someone add vm131.cloud.nrc.ca to the proxy database at SLAC?
- Produce a small amount of SP11, for testing's sake.

This page was last modified on 4 February 2010, at 20:54.

This page has been accessed 15 times.

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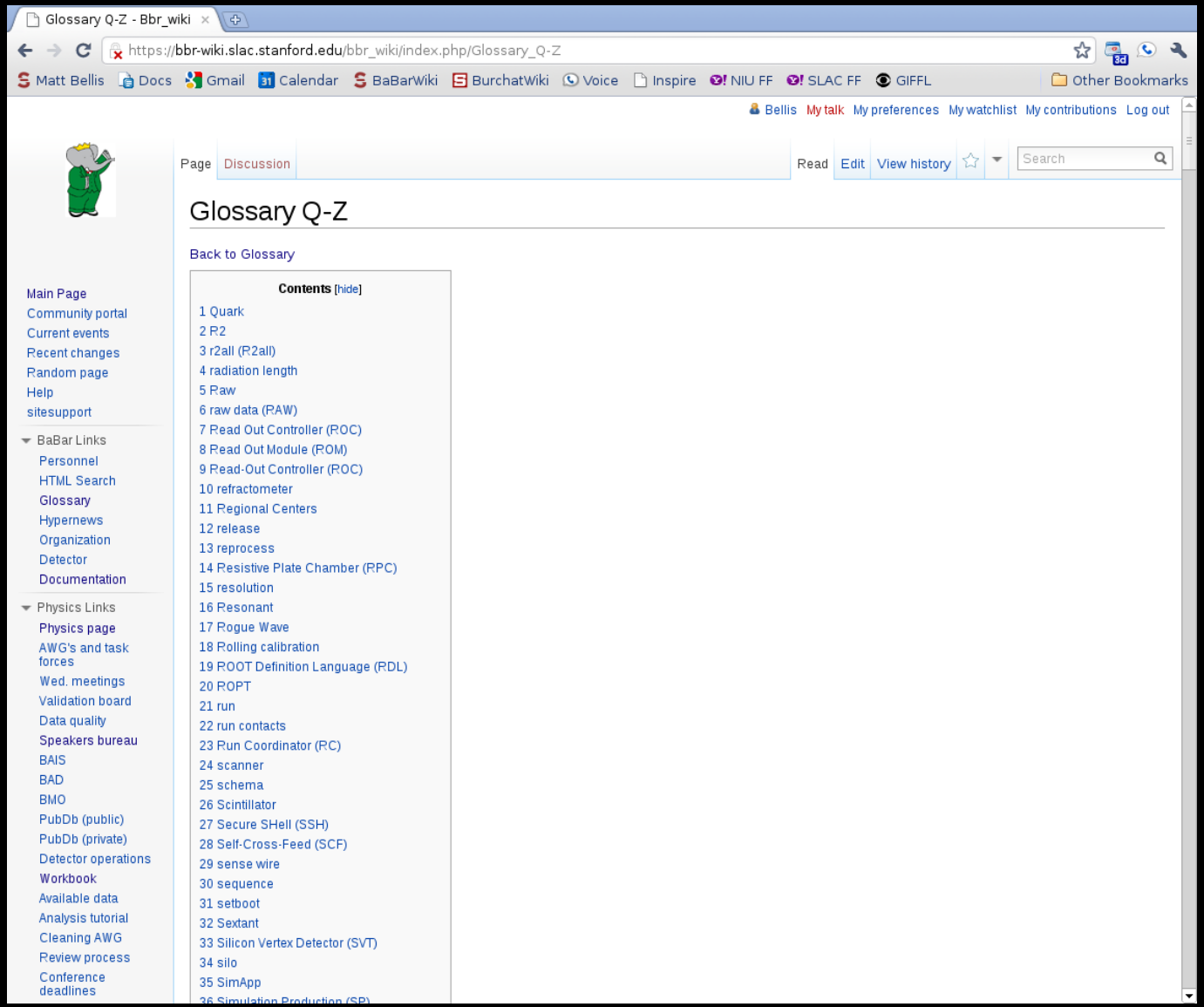
Glossary Q-Z - Bbr_wiki
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4 radiation length
5 Raw
6 raw data (RAW)
7 Read Out Controller (ROC)
8 Read Out Module (ROM)
9 Read-Out Controller (ROC)
10 refractometer
11 Regional Centers
12 release
13 reprocess
14 Resistive Plate Chamber (RPC)
15 resolution
16 Resonant
17 Rogue Wave
18 Rolling calibration
19 ROOT Definition Language (RDL)
20 ROPT
21 run
22 run contacts
23 Run Coordinator (RC)
24 scanner
25 schema
26 Scintillator
27 Secure SHell (SSH)
28 Self-Cross-Feed (SCF)
29 sense wire
30 sequence
31 setboot
32 Sextant
33 Silicon Vertex Detector (SVT)
34 silo
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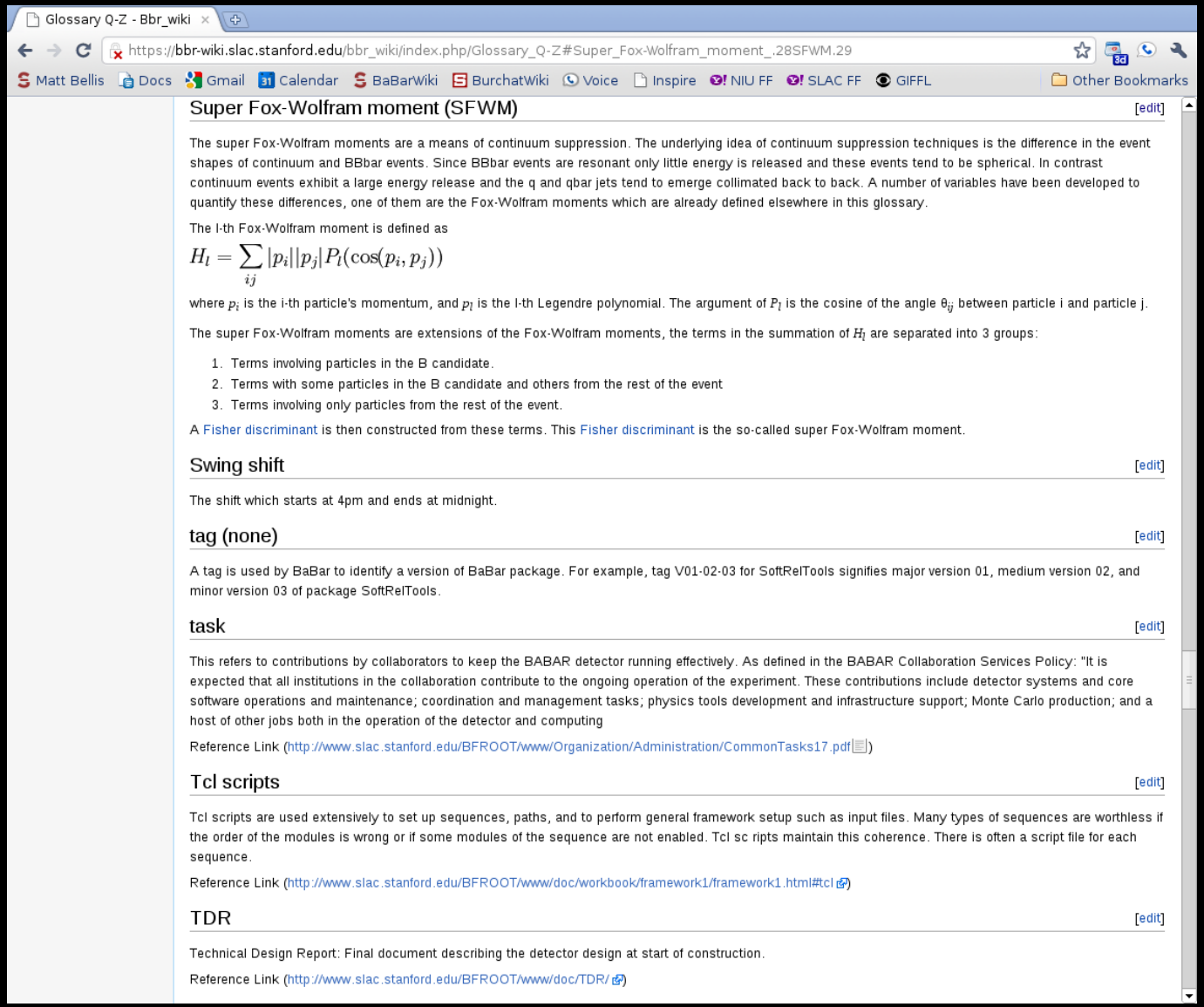
Glossary Q-Z - Bbr_wiki
https://bbr-wiki.slac.stanford.edu/bbr_wiki/index.php/Glossary_Q-Z#Super_Fox-Wolfram_moment_.28SFWM.29
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Super Fox-Wolfram moment (SFWM) [edit]
The super Fox-Wolfram moments are a means of continuum suppression. The underlying idea of continuum suppression techniques is the difference in the event shapes of continuum and BBbar events. Since BBbar events are resonant only little energy is released and these events tend to be spherical. In contrast continuum events exhibit a large energy release and the q and qbar jets tend to emerge collimated back to back. A number of variables have been developed to quantify these differences, one of them are the Fox-Wolfram moments which are already defined elsewhere in this glossary.
The l-th Fox-Wolfram moment is defined as
$H_l = \sum_{ij} |p_i||p_j| P_l(\cos(p_i, p_j))$
where p_i is the i-th particle's momentum, and p_l is the l-th Legendre polynomial. The argument of P_l is the cosine of the angle θ_{ij} between particle i and particle j.
The super Fox-Wolfram moments are extensions of the Fox-Wolfram moments, the terms in the summation of H_l are separated into 3 groups:
1. Terms involving particles in the B candidate.
2. Terms with some particles in the B candidate and others from the rest of the event
3. Terms involving only particles from the rest of the event.
A Fisher discriminant is then constructed from these terms. This Fisher discriminant is the so-called super Fox-Wolfram moment.
Swing shift [edit]
The shift which starts at 4pm and ends at midnight.
tag (none) [edit]
A tag is used by BaBar to identify a version of BaBar package. For example, tag V01-02-03 for SoftRelTools signifies major version 01, medium version 02, and minor version 03 of package SoftRelTools.
task [edit]
This refers to contributions by collaborators to keep the BABAR detector running effectively. As defined in the BABAR Collaboration Services Policy: "It is expected that all institutions in the collaboration contribute to the ongoing operation of the experiment. These contributions include detector systems and core software operations and maintenance; coordination and management tasks; physics tools development and infrastructure support; Monte Carlo production; and a host of other jobs both in the operation of the detector and computing
Reference Link (http://www.slac.stanford.edu/BFROOT/www/Organization/Administration/CommonTasks17.pdf)
Tcl scripts [edit]
Tcl scripts are used extensively to set up sequences, paths, and to perform general framework setup such as input files. Many types of sequences are worthless if the order of the modules is wrong or if some modules of the sequence are not enabled. Tcl sc ripts maintain this coherence. There is often a script file for each sequence.
Reference Link (http://www.slac.stanford.edu/BFROOT/www/doc/workbook/framework1/framework1.html#tcl)
TDR [edit]
Technical Design Report: Final document describing the detector design at start of construction.
Reference Link (http://www.slac.stanford.edu/BFROOT/www/doc/TDR/)

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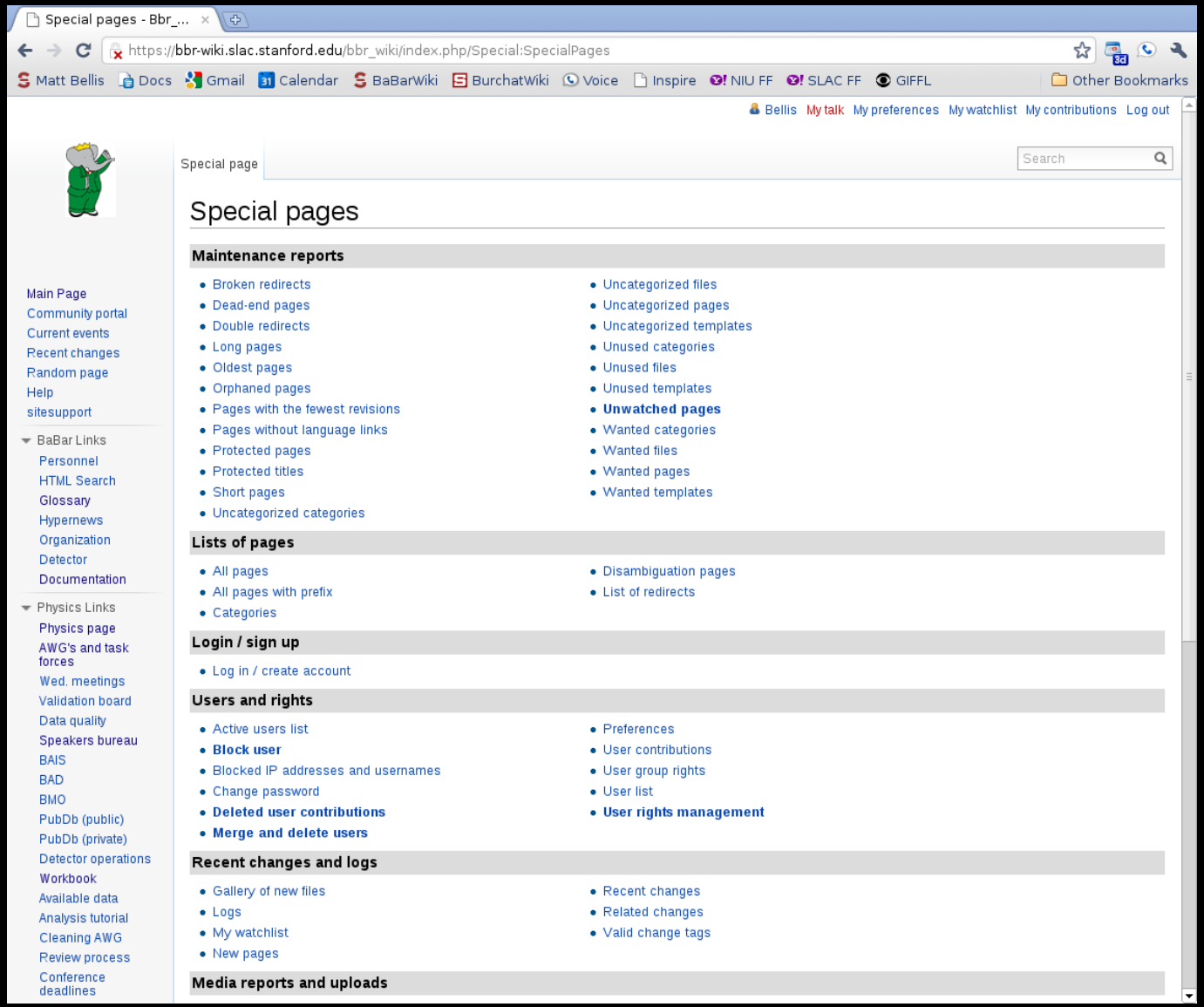
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Uncategorized pages
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Unused templates
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Wanted pages
Wanted templates
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- Small contributions by many can be very powerful.
- **The Wiki does not solve the challenge of providing good documentation!**
  It is merely a tool.
- It will only be as good as we make it.
- Documentation Working Group in place.

BaBar Wiki

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  It is merely a tool.
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- Documentation Working Group in place.
- Migration to the Wiki is proceeding.
- **Can we embed the Wiki attitude in the collaboration...or is it too late?**

Google Tools

Google Tools

- Google Docs
  - Word-type documents, spreadsheets, presentations.
    http://www.google.com/google-d-s/documents/

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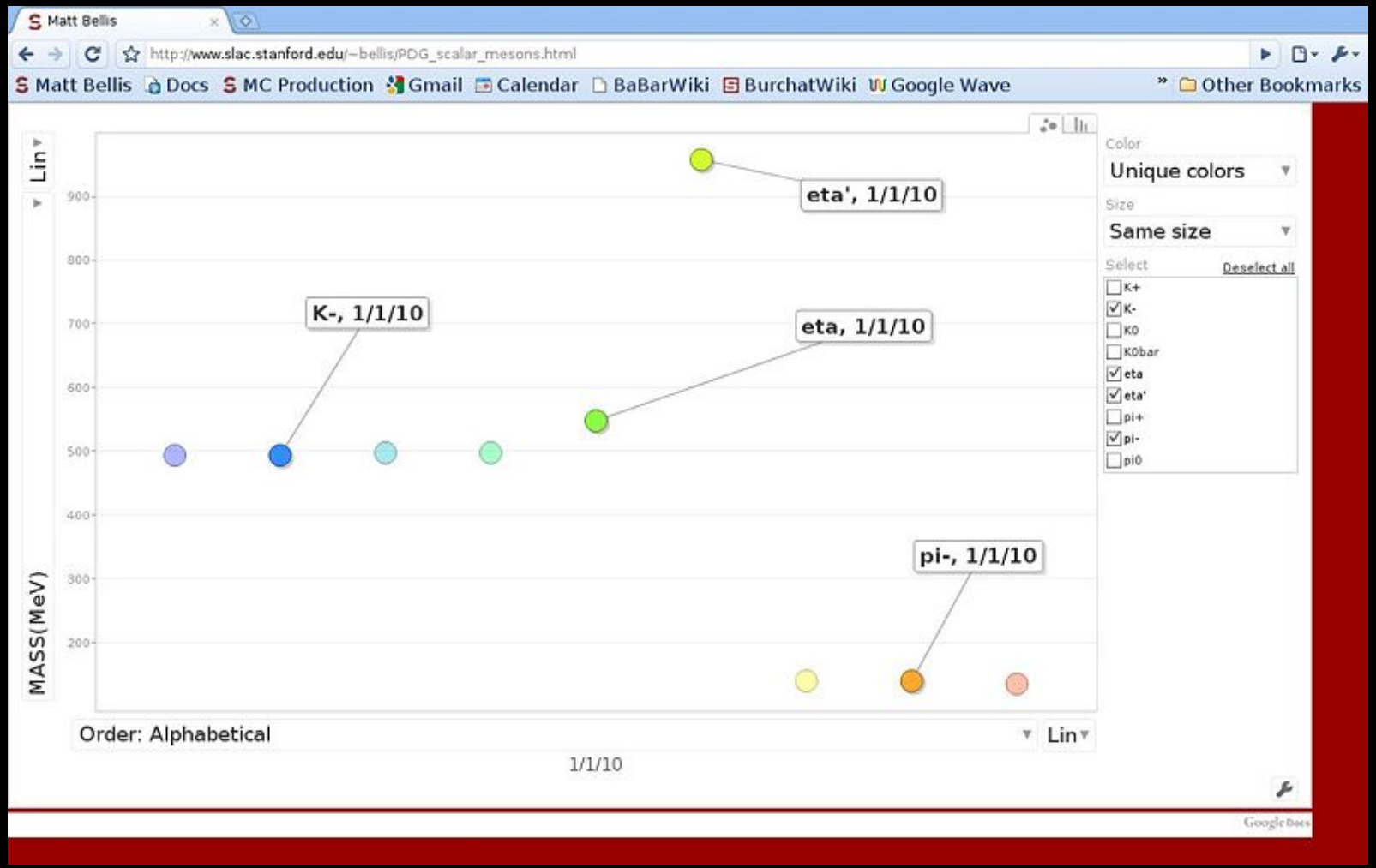
    http://code.google.com/hosting/
- Google Charts/Visualizations
  - Online data visualization/plots/charts
    http://code.google.com/apis/chart/
  - Motion Chart
  - Code is from Gapminder folks.
    http://www.gapminder.org/
    http://www.ted.com/talks/hans_rosling_reveals_new_insights_on_poverty.html

PDG information

http://www.stanford.edu/group/burchat/cgi-bin/bellis_mediawiki/index.php/PDG_visualizations



Summary

- Lots of good collaborative tools out there.
- Many of them open-source.
- Can we use them securely and effectively?
- Good *collaborative, computing tools* require thinking about *the end users*
  - **Wetware hacking**
  - **Social engineering**
  - **Meatspace interaction**

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- Lots of good collaborative tools out there.
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Thanks for your time!