

Belle II Collaborative Services & Tools (B2CS) @ DESY



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DESY IT

DESY-KEK Meeting
07 Mar 2016, DESY

- > Collaborative services and tools are **essential** for (HEP) experiments
- > As the result of a fruitful discussion initiated by Hara-san and Th. Kuhr, the Belle II Computing Steering Group (**B2CSG**) decided on 02 Feb 2016 to **migrate** all B2CS into the existing IT infrastructure at DESY
- > This proposal was **approved** by the Belle II bodies in the last month
- > The migration must be finished before the KEK **summer** shutdown
- > Due to the time constraints a **risk** assessment for the migration is needed soon

- > The DESY IT infrastructure is built to be **reliable** and highly **available** and has been providing **sustainable** services for many scientific groups such as CFEL and EXFEL as well as for HEP
- > It includes **fail-over** mechanisms, **back-up** and **archiving** options for all services
- > As for all scientific sites, **security** is major issue at DESY, it includes regular software **updates** and dedicated **firewall** rules
- > Replication of **data** and **services** can be implemented
- > The Belle II members will be **register** with DESY by way of Grid User **certificates**; as a back-up paper-based registration is possible

- > Time is short until the KEK shutdown in summer!
- > The experts at DESY have looked through all single items on the list
- > For all services and tools prototypes were prepared for Belle II
- > The process of hiring additional manpower has started.
- > As a back-up a 1-to-1 copy of existing services into virtual machines (VM) will be considered (as temporary and unsupported solution)

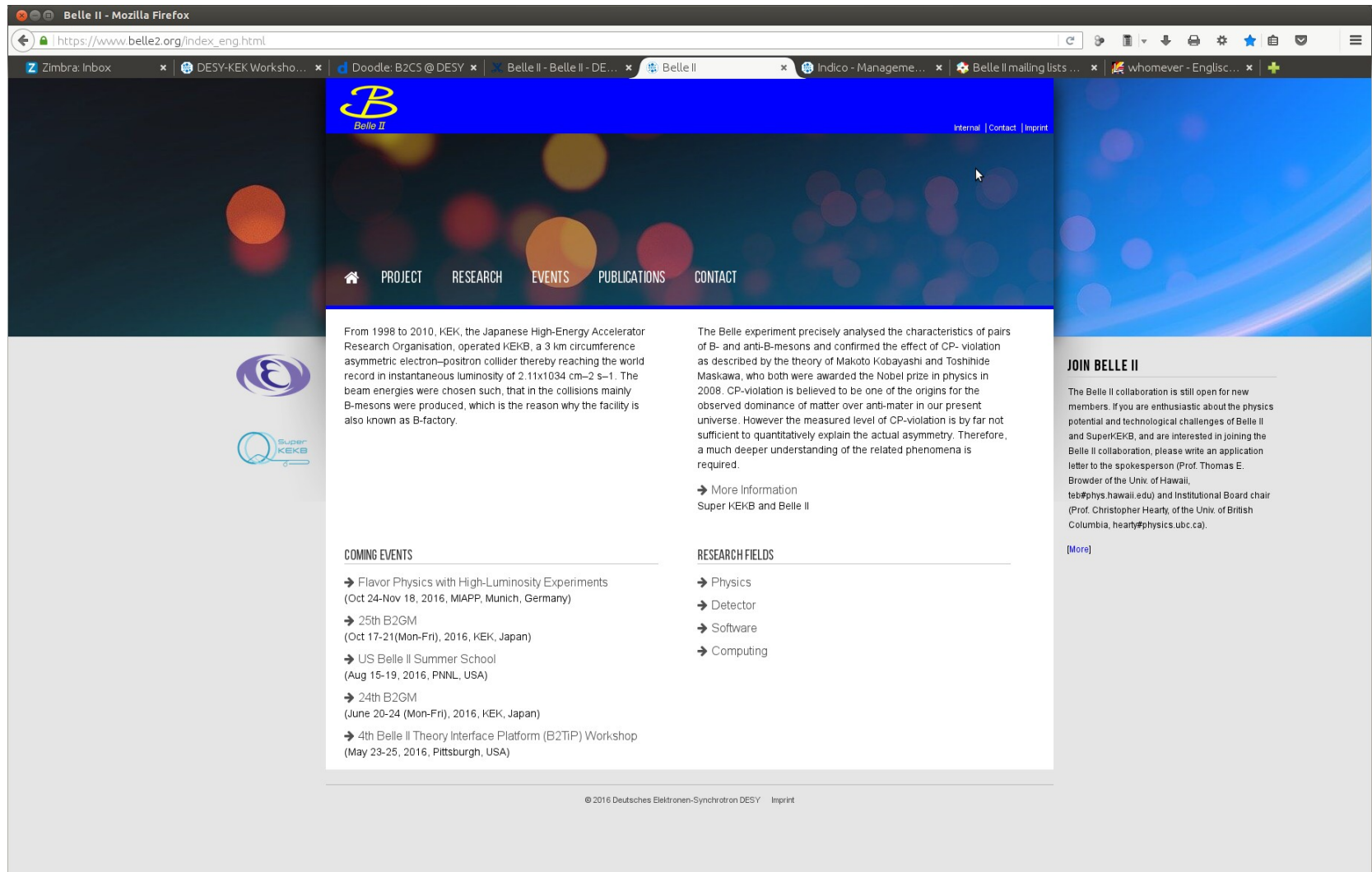
- > DESY purchased the domain 'belle2.org'. It is in operation and can be used.
- > DESY also purchased/reserved 'belle2.de' and 'belle2.info'. They are used as forwards.
- > Open: -
- > Next: -
- > Risk: -

- > Belle II: Takanori Hara
- > DESY: Renate Roude <weboffice_AT_desy.de>

- > The DESY registry is capable of hosting the Belle II users and manages the access to the web pages and the Atlassian tools.
- > A registration procedure based on User Grid Certificates is in operation for the DESY analysis facility (NAF) and was used for a few Belle II members as a prototype.
- > Takanori Hara (KEK), Thomas Kuhr (LMU), Markus Prim (KIT), Thomas Hauth (KIT) registered by way of Grid certs.
- > A group structure can be defined by collaboration.
- > Open: Fall back procedure for users w/o Grid cert. Define groups (within Belle II namespace).
- > Next: Develop registration procedure. Automatically assign resources.
- > Risk: -
- > Belle II: Thomas Kuhr, Chris Hearty
- > DESY: Thorsten Kluever <weboffice_AT_desy.de>

- > A web page was set up as a prototype.
- > Access with DESY credentials only for now.
- > www.belle2.org
- > Open: Migrate and edit content. Allow for public access.
- > Next: Migrate and edit content.
- > Risk: Availability of manpower to do the work (Belle II).

- > Belle II: Takanori Hara, Chris Hearty
- > DESY: Renate Roudé <weboffice_AT_desy.de>



Belle II

Internal | Contact | Imprint

PROJECT RESEARCH EVENTS PUBLICATIONS CONTACT

From 1998 to 2010, KEK, the Japanese High-Energy Accelerator Research Organisation, operated KEKB, a 3 km circumference asymmetric electron-positron collider thereby reaching the world record in instantaneous luminosity of $2.11 \times 10^{34} \text{ cm}^{-2} \text{ s}^{-1}$. The beam energies were chosen such, that in the collisions mainly B-mesons were produced, which is the reason why the facility is also known as B-factory.

The Belle experiment precisely analysed the characteristics of pairs of B- and anti-B-mesons and confirmed the effect of CP-violation as described by the theory of Makoto Kobayashi and Toshihide Maskawa, who both were awarded the Nobel prize in physics in 2008. CP-violation is believed to be one of the origins for the observed dominance of matter over anti-matter in our present universe. However the measured level of CP-violation is by far not sufficient to quantitatively explain the actual asymmetry. Therefore, a much deeper understanding of the related phenomena is required.

→ More Information
Super KEKB and Belle II

COMING EVENTS

- Flavor Physics with High-Luminosity Experiments (Oct 24-Nov 18, 2016, MIAPP, Munich, Germany)
- 25th B2GM (Oct 17-21 (Mon-Fri), 2016, KEK, Japan)
- US Belle II Summer School (Aug 15-19, 2016, PNNL, USA)
- 24th B2GM (June 20-24 (Mon-Fri), 2016, KEK, Japan)
- 4th Belle II Theory Interface Platform (B2TIP) Workshop (May 23-25, 2016, Pittsburgh, USA)

RESEARCH FIELDS

- Physics
- Detector
- Software
- Computing

JOIN BELLE II

The Belle II collaboration is still open for new members. If you are enthusiastic about the physics potential and technological challenges of Belle II and SuperKEKB, and are interested in joining the Belle II collaboration, please write an application letter to the spokesperson (Prof. Thomas E. Browder of the Univ. of Hawaii, teb@phys.hawaii.edu) and Institutional Board chair (Prof. Christopher Hearty, of the Univ. of British Columbia, hearty@physics.ubc.ca).

[\[More\]](#)

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- > DESY supports 'confluence' which is part of the Atlassian Tools.
 - > Access via DESY credentials.
 - > The contents of the KEK Twiki were migrated. Structure must be built up.
 - > <https://confluence.desy.de/display/BI/Belle+II>
 - > Open: A one-to-one migration is not possible.
 - > Next: Work on setting up and re-linking contents.
 - > Risk: A 1to-1 migration is not possible. Work is needed!
 - > Plan B: Static web archive of the KEK Twiki.
 - > Plan Z: Run twiki on VM (unsupported and not recommended!).
-
- > Belle II: Thomas Kuhr, Markus Prim
 - > DESY: Bastian Vennemann <weboffice_AT_desy.de>

Belle II - Belle II - DESY Confluence - Mozilla Firefox

https://confluence.desy.de/display/BI/Belle+II

Zimbra: Inbox x DESY-KEK Worksho... x Doodle: B2CS @ DESY x Belle II - Belle II - DE... x Belle II x Indico - Manageme... x Belle II mailing lists... x whomever - Engisc... x

Confluence Spaces People Create

Belle II

Pages Blog

SPACE SHORTCUTS

- BELLE II home (KEK)
- BELLE II home (new)
- KEK
- SuperKEKB
- DESY

Dateilisten


PAGE TREE

- Archive
- B2TIP web
- Detector
- Computing
- Collaborative Services and Tools Migra
- Physics
- Life web
- Main
- Belle II Storage at DESY
- Test
- Dateilisten

Pages @

Belle II

Atlassian Admins posted on 15. Feb. 2016 14:40h - last edited by Andreas Gellrich on 29. Feb. 2016 12:47h



Belle II Web Home Page

Belle II Wiki Pages

- Detector
- Operations/Safety
- Computing
- Software
- Physics
- Organization / Collaboration Bodies

Usefull Information

- Documents
- Information about life at KEK
- Glossary

Administration

- Administrative procedures for new Belle II collaborators and other
- Instructions for annual renewals are [here](#).

Support

- Feel free to ask xxx or [Thomas Kuhr](#) if you have any questions or you would like to create a new Wiki web.
- Please contact [Chris Hearty](#) if you have suggestions regarding content.

Blog stream

Blog stream

Create a blog post to share news and announcements with your team and company.

Create blog post

Recently updated

- Not migrated (Main)
3 minutes ago • updated by Atlassian Admins • view change
- Main
6 minutes ago • updated by Atlassian Admins • view change

About us

Welcome to Confluence at DESY

- > DESY supports 'agira (JIRA)' which is part of the Atlassian Tools.
- > Access via DESY credentials.
- > <https://agira.desy.de/projects/BELLEII>
- > Open: The starting point is open.
- > Next: Experts should start to test.
- > Risk: Old contents might get lost (redmine is not supported).

- > Belle II: Thomas Kuhr
- > DESY: Bastian Vennemann <weboffice_AT_desy.de>

- > DESY supports 'stash' which is the GIT implementation of the Atlassian Tools.
- > <https://stash.desy.de/projects/B2>
- > Open: Migration of contents.
- > Next: Test by experts.
- > Risk: Not achievable in time.
- > Plan B: Stay with svn (unsupported).

- > Belle II: Thomas Kuhr
- > DESY: Oliver Frost <Oliver.Frost_AT_desy.de>

- > A VM was set up and successfully tested.
- > b2-master.belle2.org, b2-slave-ubu144.belle2.org, b2-slave-sl6.belle2.org, b2-sl6-32.belle2.org, b2-slave-el7.belle2.org
- > Open: Final set up.
- > Next: Final set up.
- > Risk: -

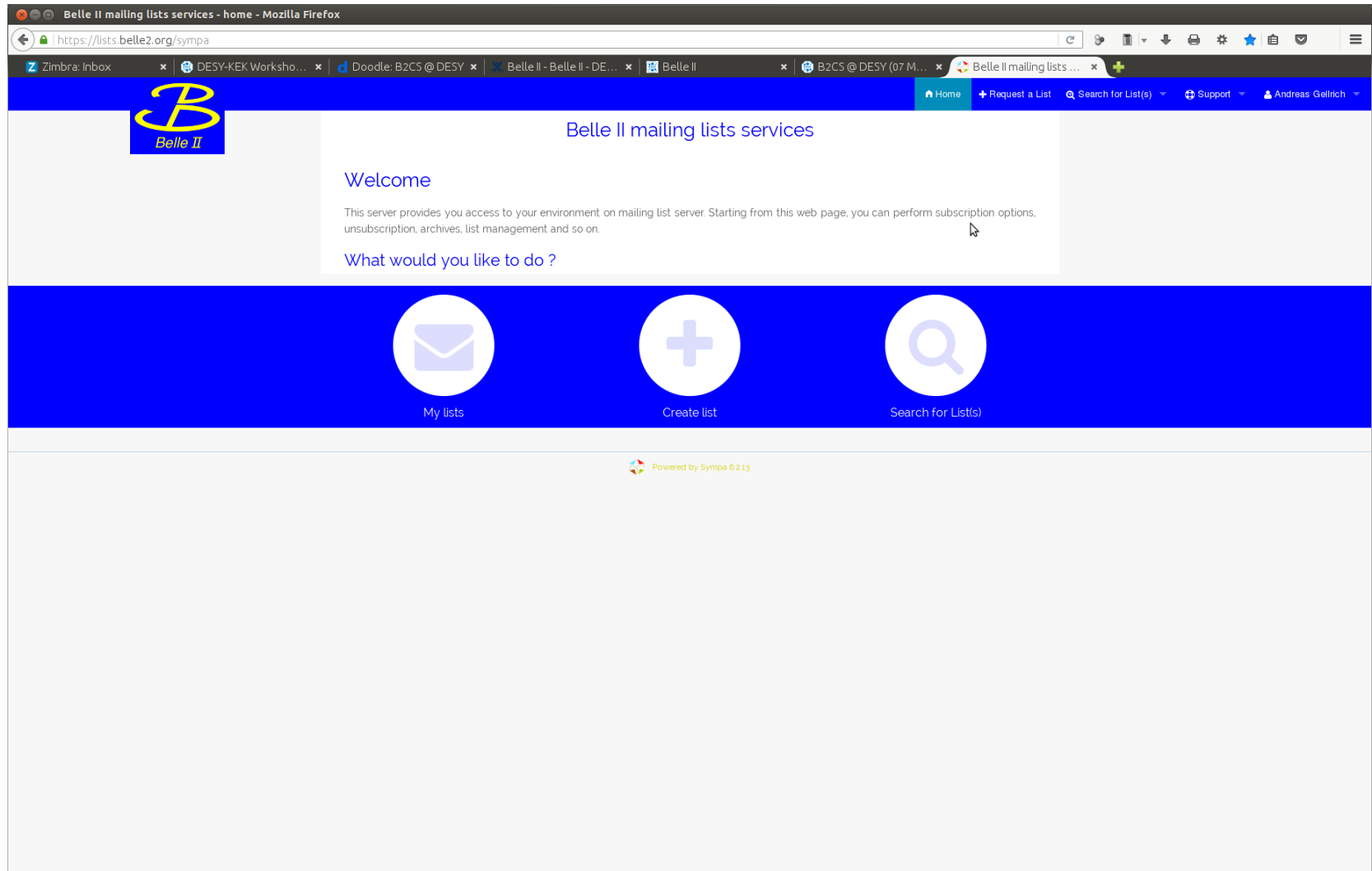
- > Belle II: Thomas Kuhr
- > DESY: Andreas Gellrich

- > No user mail boxes are available for the domain 'belle2.org'.
- > This could be implemented later if desired. Would allow for common calendar.
- > Possibly: <Takanori.Hara_AT_belle2.org> → <takanori.hara_AT_kek.jp>
- > SPAM tagging via national academic network provider

- > Belle II: Takanori Hara, Thomas Kuhr
- > DESY: Dirk Jahnke et al. <postmaster_AT_belle2.org>

- > A mailing list server based on Sympa '<https://lists.belle2.org/sympa>' was set up. It is still internal.
- > A first mailing lists: <b2cs_AT_belle2.org>, <b2cs-support_AT_belle2.org>
- > The current Belle II MLs were looked at.
- > Automatic handling of Belle II members into/out of ML.
- > Open: Clean up of old mailing lists. Naming scheme.
- > Next: Set up of new MLs.
- > Risk: -

- > Belle II: Takanori Hara, Johannes Grygier, Thomas Kuhr, Mikihiko Nakao
- > DESY: Dirk Jahnke et al. <postmaster_AT_belle2.org>



The screenshot shows a web browser window with the title "Belle II mailing lists services - home - Mozilla Firefox". The address bar displays "https://lists.belle2.org/sympa". The browser's tab bar shows several open tabs, including "Zimbra: Inbox", "DESY-KEK Worksho...", "Doodle: B2CS @ DESY", "Belle II - Belle II - DE...", "Belle II", "B2CS @ DESY (07 M...", and the active tab "Belle II mailing lists ...".

The web interface has a blue header bar. On the left is the Belle II logo. On the right are navigation links: "Home", "+ Request a List", "Search for List(s)", "Support", and a user profile "Andreas Gellrich".

Below the header, the main content area has a light gray background. It features the Belle II logo on the left and the text "Belle II mailing lists services" in the center. Below this is a "Welcome" message: "This server provides you access to your environment on mailing list server. Starting from this web page, you can perform subscription options, unsubscription, archives, list management and so on." Below the welcome message is the question "What would you like to do?".

At the bottom of the main content area is a blue bar with three white circular icons and labels: an envelope icon labeled "My lists", a plus icon labeled "Create list", and a magnifying glass icon labeled "Search for List(s)".

At the very bottom of the page is a small logo and text: "Powered by Sympa 6.2.13".

- > The DESY indico server has a category 'Belle II'.
- > Access for registered users only (not DESY registry).
- > <https://indico.desy.de/categoryDisplay.py?categId=428>
- > Access via indico.belle2.org might be possible.
- > Open: -
- > Next: Editor must register with 'indico.desy.de'.
- > Risk: -


- > Belle II: Takanori Hara
- > DESY: Marcus Dramburg <indico_AT_desy.de>

B2CS @ DESY (07 March 2016) - Mozilla Firefox

https://indico.desy.de/conferenceDisplay.py?confid=14459

Zimbra: Inbox x DESY-KEK Worksho... x Doodle: B2CS @ DESY x Belle II - Belle II - DE... x Belle II x B2CS @ DESY (07 M... x Belle II mailing lists ... x whomever - Englis... x

Europe/Berlin English Login



B2CS @ DESY

chaired by Andreas Gellrich (DESY)

Monday 07 March 2016 from 14:00 to 17:00 (Europe/Berlin)
at DESY Hamburg (2a005)

Description Meeting with Takanori Hara who attends the DESY-KEK meeting to discuss the hosting of the Belle II collaborative services and tools at DESY.

Participants Andreas Gellrich; Birgit Lewendel; Peter van der Reest; Bastian Vennemann

Monday 07 March 2016

14:00 - 14:05	Welcome 05'
	Speaker: Andreas Gellrich (DESY)
14:05 - 15:00	B2CS @ DESY 55'
	Speaker: Andreas Gellrich (DESY)
15:00 - 17:00	Discussion 2h00'

<https://indico.desy.de/event/14459>
Last modified: 04 March 2016 11:25

- > A document server instance 'docs.belle2.org' is being set up based on 'invenio'.
- > Open: Detailed migration scenario.
- > Next: Clarify details.
- > Risk: Time.

- > Belle II: Phill Urquijo
- > DESY: Florian Schwennsen <florian.schwennsen_AT_desy.de>

- > backup to TSM is possible on the service level
- > Open: Definiton of services and contents.
- > Next: Definiton of services and contents.
- > Risk: -

- > Belle II: Thomas Kuhr
- > DESY: Andreas Gellrich

- > Monitoring / Alarming of DESY Belle II services will be possible via Icinga incl. alarm forwarding
- > Open: -
- > Next: -
- > Risk: -

- > Belle II: Thomas Kuhr, Hideki Miyake
- > DESY: Andreas Gellrich

- > All items have been touched
- > Prototypes exist
- > Work can start
- > Belle II will live at least 1-2 decades
- > Support must be guaranteed for the lifetime of the collaboration