

PubDB

An analysis database for Belle II

David Koch¹, Thomas Kuhr¹

Belle II Germany Meeting, 2024-10-01

¹LMU



What this is all about

A web-app for Belle II to

- host documents (papers, theses, reports, posters, ...)
- guide users through the whole process of creating public papers
- act as a database of ongoing analyses

Motivation

Motivation

1. The software that runs Belle II's **document server** (docs.belle2.org) is outdated and needs replacement.

Motivation

1. The software that runs Belle II's **document server** (docs.belle2.org) is outdated and needs replacement.
2. There is no streamlined way to follow the process of creating a paper.

Motivation

1. The software that runs Belle II's **document server** (docs.belle2.org) is outdated and needs replacement.
2. There is no streamlined way to follow the process of creating a paper.
 - there are well-defined policies regarding the process of creating a Belle II paper, ie. when and how to form a review committee, how the review process should take place, who is responsible for what, ...

Motivation

1. The software that runs Belle II's **document server** (docs.belle2.org) is outdated and needs replacement.
2. There is no streamlined way to follow the process of creating a paper.
 - there are well-defined policies regarding the process of creating a Belle II paper, ie. when and how to form a review committee, how the review process should take place, who is responsible for what, ...
 - no centrally organized mechanism which **implements the policy**: all e-mail based

Motivation

1. The software that runs Belle II's **document server** (docs.belle2.org) is outdated and needs replacement.
2. There is no streamlined way to follow the process of creating a paper.
 - there are well-defined policies regarding the process of creating a Belle II paper, ie. when and how to form a review committee, how the review process should take place, who is responsible for what, ...
 - no centrally organized mechanism which **implements the policy**: all e-mail based
 - no **database** that keeps track of the status of ongoing analyses

→ **PubDB**

PubDB features

PubDB feature wishlist

- replicate docs.belle2.org capabilities
 - upload pdfs and other types of documents ✓
 - categorize documents into public/private, papers, notes, theses, ... ✓
- migrate all data from docs.belle2.org to PubDB

PubDB feature wishlist

- replicate docs.belle2.org capabilities
 - upload pdfs and other types of documents ✓
 - categorize documents into public/private, papers, notes, theses, ... ✓
- migrate all data from docs.belle2.org to PubDB
- metadata-rich, searchable database of analyses ✓

PubDB feature wishlist

- replicate docs.belle2.org capabilities
 - upload pdfs and other types of documents ✓
 - categorize documents into public/private, papers, notes, theses, ... ✓
 - migrate all data from docs.belle2.org to PubDB
- metadata-rich, searchable database of analyses ✓
- implement publication checklist with visual guide ✓

PubDB feature wishlist

- replicate docs.belle2.org capabilities
 - upload pdfs and other types of documents ✓
 - categorize documents into public/private, papers, notes, theses, ... ✓
 - migrate all data from docs.belle2.org to PubDB
- metadata-rich, searchable database of analyses ✓
- implement publication checklist with visual guide ✓
- clear overview over ongoing analyses ✓

PubDB feature wishlist

- replicate docs.belle2.org capabilities
 - upload pdfs and other types of documents ✓
 - categorize documents into public/private, papers, notes, theses, ... ✓
 - migrate all data from docs.belle2.org to PubDB
- metadata-rich, searchable database of analyses ✓
- implement publication checklist with visual guide ✓
- clear overview over ongoing analyses ✓
- comment system for review ✓

PubDB feature wishlist

- replicate docs.belle2.org capabilities
 - upload pdfs and other types of documents ✓
 - categorize documents into public/private, papers, notes, theses, ... ✓
 - migrate all data from docs.belle2.org to PubDB
- metadata-rich, searchable database of analyses ✓
- implement publication checklist with visual guide ✓
- clear overview over ongoing analyses ✓
- comment system for review ✓
- configurable notifications and alerts on status changes ✓

PubDB feature wishlist

- replicate docs.belle2.org capabilities
 - upload pdfs and other types of documents ✓
 - categorize documents into public/private, papers, notes, theses, ... ✓
 - migrate all data from docs.belle2.org to PubDB
- metadata-rich, searchable database of analyses ✓
- implement publication checklist with visual guide ✓
- clear overview over ongoing analyses ✓
- comment system for review ✓
- configurable notifications and alerts on status changes ✓
- automatic versioning of uploaded documents ✓

PubDB feature wishlist

- replicate docs.belle2.org capabilities
 - upload pdfs and other types of documents ✓
 - categorize documents into public/private, papers, notes, theses, ... ✓
 - migrate all data from docs.belle2.org to PubDB
- metadata-rich, searchable database of analyses ✓
- implement publication checklist with visual guide ✓
- clear overview over ongoing analyses ✓
- comment system for review ✓
- configurable notifications and alerts on status changes ✓
- automatic versioning of uploaded documents ✓
- history log of every change to the metadata ✓

PubDB feature wishlist

- integration with Gitlab, eg create a repository from a template if a new note / paper is created in PubDB

PubDB feature wishlist

- integration with Gitlab, eg create a repository from a template if a new note / paper is created in PubDB
- project-managing support for analyses
 - search ✓
 - Labels such as status, datasets used, topic, ... ✓
 - Gitlab-issues-like milestones

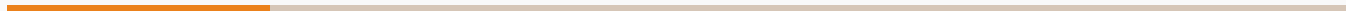
PubDB feature wishlist

- integration with Gitlab, eg create a repository from a template if a new note / paper is created in PubDB
- project-managing support for analyses
 - search ✓
 - Labels such as status, datasets used, topic, ... ✓
 - Gitlab-issues-like milestones
- REST API (partly ✓)

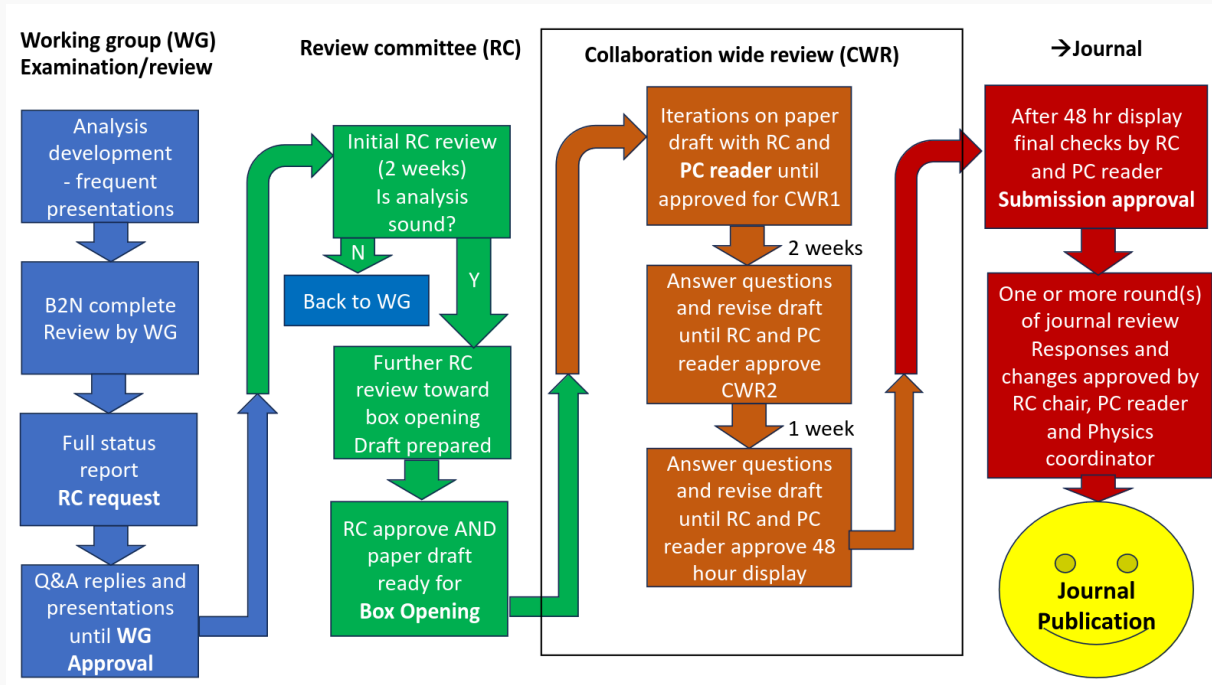
PubDB feature wishlist

- integration with Gitlab, eg create a repository from a template if a new note / paper is created in PubDB
- project-managing support for analyses
 - search ✓
 - Labels such as status, datasets used, topic, ... ✓
 - Gitlab-issues-like milestones
- REST API (partly ✓)
- HEPData integration

Demo

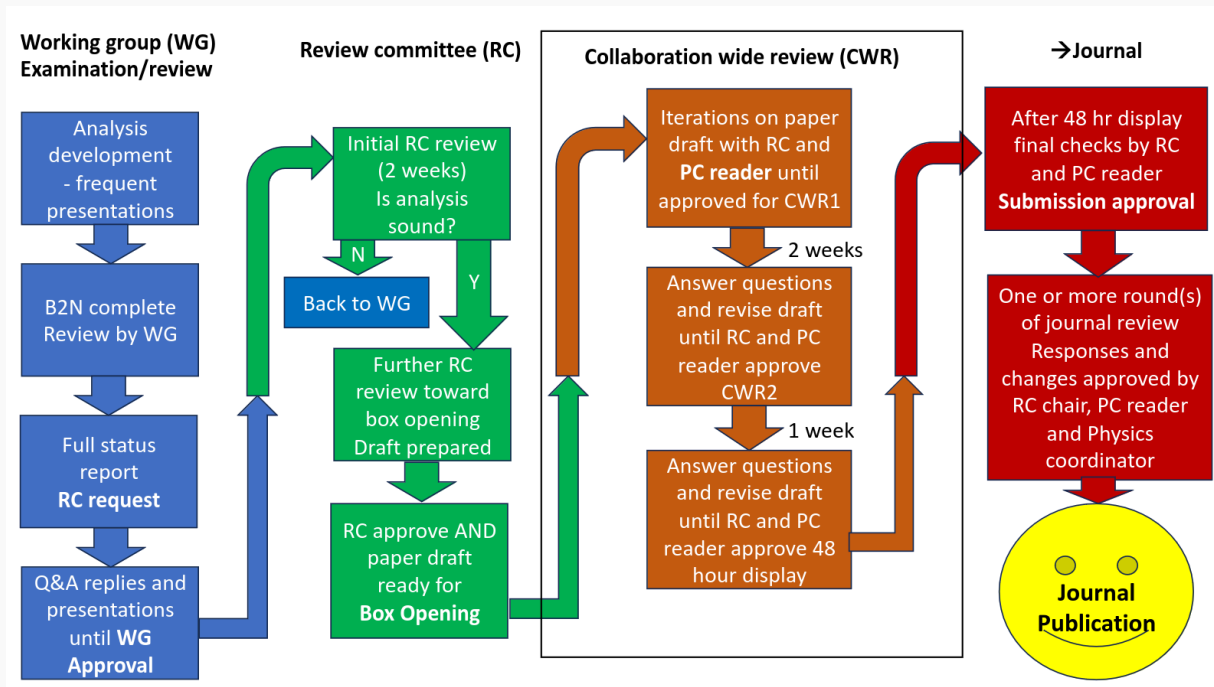


Demo



https://authors.belle2.org/_/deliver.pl?F=1

Demo



The following is a series of screenshots that demonstrate how PubDB guides (fictional) users along this flowchart.

https://authors.belle2.org/_/deliver.pl?F=1

Welcome page with a list of all documents / analyses

The screenshot shows the Belle II Publications website interface. At the top, there is a blue navigation bar with 'Belle II Publications', 'Workspace 4', 'Settings', and 'Logout (Proponent 1)'. Below the navigation bar, there are tabs for 'Analyses', 'Papers', and 'Documents'. The main heading is 'List of Documents by the Belle II Experiment'. On the left, there is a 'Filter' sidebar with fields for 'Category', 'Analysis working group', 'Title contains', 'Abstract contains', 'B2number', and 'Arxiv'. There is also a 'Tags name' dropdown menu with options like 'Belle', 'Run 1', 'Run 2', and 'mixing'. A 'Submit Query' button is located at the bottom of the filter sidebar. On the right, there is a 'Create new document' button. The main content area displays a table of documents with columns: 'Title', 'Belle II Number', 'Tags', 'Submit date', and 'Downloads'. The table contains several rows of document entries, including 'Belle II computing facilities', 'journalpaper for A fantastic paper', 'testnote for A fantastic paper', 'journalpaper for Measurement of the branching fraction for $D \rightarrow E^+ F^-$ ', 'testnote for Measurement of the branching fraction for $D \rightarrow E^+ F^-$ ', 'Search for rare $A \rightarrow B$ decays', and 'testnote for Search for rare $A \rightarrow B$ decays'. At the bottom of the table, there is a pagination control showing 'Page 1 of 1'.

Title	Belle II Number	Tags	Submit date	Downloads
Belle II computing facilities Internal <small>This talk is about Belle II computing facilities</small>	BELLE2-TALK-2024-001	-	2024-09-26	BELLE2-TALK-2024-001.pdf (0.1)
journalpaper for A fantastic paper Internal	BELLE2-PUB-PH-2024-003	-	2024-09-26	
testnote for A fantastic paper Internal	BELLE2-NOTE-PH-2024-003	-	2024-09-26	BELLE2-NOTE-PH-2024-003.pdf (0.1)
journalpaper for Measurement of the branching fraction for $D \rightarrow E^+ F^-$ Internal <small>blah</small>	BELLE2-PUB-PH-2024-002	-	2024-09-26	BELLE2-PUB-PH-2024-002.pdf (48h)
testnote for Measurement of the branching fraction for $D \rightarrow E^+ F^-$ Internal	BELLE2-NOTE-PH-2024-002	-	2024-09-26	BELLE2-NOTE-PH-2024-002.pdf (0.1)
Search for rare $A \rightarrow B$ decays Latest Version Public <small>An amazing analysis using state-of-the-art machine learning techniques to search for the extremely rare $A \rightarrow B$ transition.</small>	BELLE2-PUB-PH-2024-001	-	2024-09-26	BELLE2-PUB-PH-2024-001.pdf (48h)
testnote for Search for rare $A \rightarrow B$ decays Internal	BELLE2-NOTE-PH-2024-001	-	2024-09-26	BELLE2-NOTE-PH-2024-001.pdf (0.1)

For unauthenticated users, only published papers are listed.

Welcome page with a list of all documents / analyses

Belle II Publications Workspace 4 Settings Logout (Proponent 1)

Analyses Papers Documents

List of Documents by the Belle II Experiment

Filter

Category:

Analysis working group:

Title contains:

Abstract contains:

B2number:

Arxiv:

Tags name:

combine tags with:

Submit Query

Title	Belle II Number	Tags	Submission date	Journal	Principal Authors	Preprints	Progress
Search for rare $A \rightarrow B$ decays	BELLE2-PUB-PH-2024-001	-	Sept. 26, 2024, 9:03 a.m.	Test Journal	Proponent 1, Proponent 2	Belle II preprint: 1234 ArXiv: 1234.1234	Published on Sept. 26, 2024
journalpaper for Measurement of the branching fraction for $D \rightarrow E^+ F^-$	BELLE2-PUB-PH-2024-002	-	Sept. 26, 2024, 9:05 a.m.	Test Journal	Proponent 1, Proponent 2	Belle II preprint: 1234 ArXiv: -	last update: Sept. 26, 2024, 9:05 a.m. Submission
journalpaper for A fantastic paper	BELLE2-PUB-PH-2024-003	-	Sept. 26, 2024, 9:05 a.m.	-	Proponent 1, Proponent 2	Belle II preprint: - ArXiv: -	last update: Sept. 26, 2024, 9:05 a.m. Review committee approval

Search for rare $A \rightarrow B$ decays Latest Version Public
An amazing analysis using state-of-the-art machine learning techniques to search for the extremely rare $A \rightarrow B$ transition.
BELLE2-PUB-PH-2024-001 - 2024-09-26 BELLE2-PUB-PH-2024-001.pdf (48h)

testnote for Search for rare $A \rightarrow B$ decays Internal
BELLE2-NOTE-PH-2024-001 - 2024-09-26 BELLE2-NOTE-PH-2024-001.pdf (0.1)

Page 1 of 1

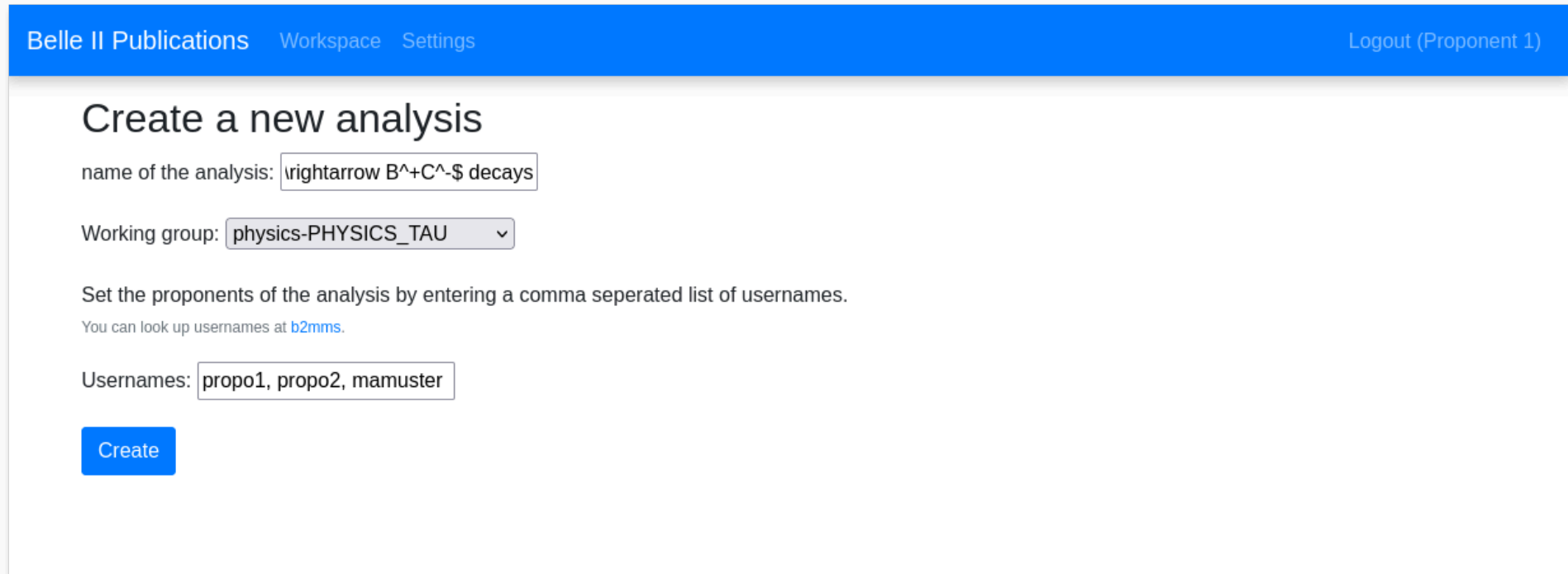
For unauthenticated users, only published papers are listed.

Welcome page with a list of all documents / analyses

The screenshot displays the Belle II Publications interface. At the top, there are navigation tabs for 'Analyses', 'Papers', and 'Documents', with 'Documents' selected. The main heading is 'List of Documents by the Belle II Experiment'. On the left, a 'Filter' sidebar includes dropdowns for 'Category' and 'Analysis working group', and input fields for 'Title contains:', 'Abstract contains:', 'B2number:', and 'Arxiv:'. A 'Tags name:' dropdown is open, showing options: 'Belle', 'Run 1', 'Run 2', and 'mixing'. Below the tags is a 'combine tags with:' dropdown set to 'OR' and a 'Submit Query' button. The main content area shows a table of documents with columns for 'Title' and 'Belle II ID'. The first document is 'Search for rare $A \rightarrow B$ decays' with ID 'BELLE2-P'. The second is 'journalpaper for Measurement of the branching fraction for $D \rightarrow E^+ F^-$ ' with ID 'BELLE2-N'. The third is 'journalpaper for A fantastic paper' with ID 'BELLE2-N'. The fourth is 'testnote for Search for rare $A \rightarrow B$ decays' with ID 'BELLE2-N'. A 'Filter' overlay is positioned in the foreground, mirroring the sidebar controls. On the right, a table with three columns: 'Initial Authors', 'Preprints', and 'Progress' is partially visible. The 'Preprints' column contains entries like 'Belle II preprint: 1234 ArXiv: 1234.1234' and 'Belle II preprint: 1234 ArXiv: -'. The 'Progress' column shows 'Published on Sept. 26, 2024' and 'last update: Sept. 26, 2024, 9:05 a.m. Submission'.

For unauthenticated users, only published papers are listed.

Creating a new analysis just requires a name, working group and a list of proponents:



The screenshot shows a web interface for creating a new analysis. At the top, there is a blue navigation bar with the text 'Belle II Publications' on the left and 'Logout (Proponent 1)' on the right. Below the navigation bar, the main content area has a white background. The title 'Create a new analysis' is displayed in a large, bold font. Below the title, there are three input fields: 'name of the analysis:' with the text 'rightharpoon B^+C^- \$ decays', 'Working group:' with a dropdown menu showing 'physics-PHYSICS_TAU', and 'Usernames:' with the text 'propo1, propo2, mamuster'. Below the input fields, there is a blue button labeled 'Create'. The text 'Set the proponents of the analysis by entering a comma seperated list of usernames. You can look up usernames at [b2mms](#).' is located between the 'Working group' and 'Usernames' fields.

Several documents can be organized under an analysis: notes, papers, talks, ...

Creating a new analysis just requires a name, working group and a list of proponents:

The screenshot displays the Belle II Publications web interface. The top navigation bar includes 'Belle II Publications', 'Workspace', 'Settings', and 'Logout (Proponent 1)'. On the left, the 'Create a new analysis' form is visible, with fields for 'name of the analysis' (containing 'wrighta...'), 'Working group' (containing 'physics-PHY...'), and 'Usernames' (containing 'propo1, propo2...'). A blue 'Create' button is at the bottom of the form. On the right, the main content area shows the details for an analysis titled 'Search for rare $A \rightarrow B^+ C^-$ decays'. This area contains a table with the following data:

Working Group	physics-PHYSICS_TAU
Proponents	Proponent 1 , Proponent 2 , Max Muster

Below the table, there are three sections: 'Notes' with a 'Create new Note' button, 'Publications', and 'Other documents'. Each of these sections currently displays the message: 'There are no [notes/publications/other documents] for this analysis yet.'

Several documents can be organized under an analysis: notes, papers, talks, ...

The view of a newly created **journal paper**.
The main journey begins here.

The screenshot displays the 'Belle II Publications' workspace. The main title is 'Paper for Search for rare $A \rightarrow B^+ C^-$ decays'. The page includes a 'Details' sidebar, a 'Progress' bar, and a checklist item 'Request a review committee'. Below this is a table for 'Paper' details, a 'Files' section with 'Upload' and 'Upload supplementals' buttons, and a 'Publication' table.

Details
Checklist

Paper for Search for rare $A \rightarrow B^+ C^-$ decays
Visibility: **Internal**
Progress
last update: Sept. 26, 2024, 12:36 p.m.
These points from the checklist are currently waiting for completion:

- Request a review committee**
activated: Sept. 26, 2024, 12:36 p.m.
Who: A convener of the working group
What: Send an automated email to the publications committee asking them to form a review committee for this publication.
[Request a review committee](#)

See the full checklist [here](#).

Paper [Edit](#)
Tags: -

Proponents	Proponent 1 , Proponent 2 , Max Muster
Submit date	Sept. 26, 2024, 12:36 p.m.
Working group	physics-PHYSICS_TAU
Belle II Number	BELLE2-PUB-PH-2024-004
Analysis	Search for rare $A \rightarrow B^+ C^-$ decays

Files
- [Upload](#) [Upload supplementals](#)

Publication

Publication date	-
Mailing list	b2n-2024-004@belle2.org (Sympa)
Reviewers	-
Review Chair	-
PC Reader	-

The view of a newly created **journal paper**.

The main journey begins here.

PDFs can be uploaded directly to PubDB.

The screenshot shows the Belle II Publications workspace. The top navigation bar includes 'Belle II Publications', 'Workspace', 'Settings', and 'Logout (Proponent 1)'. The main content area is titled 'Paper for Search for rare $A \rightarrow B^+ C^-$ decays'. On the left, there is a sidebar with 'Details' and 'Checklist' buttons. The 'Details' section shows 'Visibility: Internal' and 'Progress' with a green progress bar. Below this, there is a 'Request a review' button and a 'Request a review' button. The 'Checklist' section shows 'Who: A convener', 'What: Send an au', and 'Request a review'. The 'Paper' section shows 'Tags: -'. The 'Proponents' section shows 'John Baldwin', 'Cliff Williams', and 'Robert Klose'. The 'Submit date' section shows 'jbalwin@kent.edu', 'c.williams@essex.edu', and 'roklose@cambridge.edu'. The 'Working group' section shows 'Belle II Number' and 'Analysis'. The 'Files' section shows 'Publication'. The 'Publication' section shows 'Publication date', 'Mailing list', 'Reviewers', 'Review Chair', and 'PC Reader'. The main content area shows a preview of the paper's title page, which includes the title 'Search for rare $A \rightarrow B^+ C^-$ decays with pions in the final state', the authors 'John Baldwin', 'Cliff Williams', and 'Robert Klose', and the abstract 'Abstract Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua quaerat voluptatem. Ut enim aequaleamus animo, cum corpore dolemus, fieri tamen permagna accessio potest, si aliquod aeternum et infinitum impendere malum nobis opinemur. Quod idem licet transferre in voluptatem, ut postea variari voluptas distinguique possit, augeri amplificarique non possit. At etiam Athenis, ut e patre audiebam quibusdam et aut officii debitis aut rerum necessitatibus saepe eveniet, ut et voluptates repudiandae sint et molestiae non recusandae. Itaque earum rerum defuturum, quas natura non depravata desiderat. Et quem ad me accedis, saluto: 'chaere, inquam, Tite!' lictores, turma omnis chorusque: 'chaere, Tite!' hinc hostis mi Albusius, hinc inimicus. Sed iure Mucius. Ego autem mirari satis non queo unde hoc sit tam insolens domesticarum rerum fastidium. Non est omnino hic docendi locus; sed ita prorsus existimo, neque eum

The **checklist** view: a step by step guide through the process of creating a journal publication
+ timestamps when each task was started and finished

The screenshot shows the Belle II Publications interface. At the top, there is a blue header with 'Belle II Publications', 'Workspace', 'Settings', and 'Logout (Proponent 1)'. Below the header, there is a navigation bar with 'Details' and 'Checklist' (the latter is highlighted in blue). The main content area is titled 'Checklist for the analysis 'Paper for Search for rare $A \rightarrow B^+C^-$ decays''. Below the title, there is a sub-header: 'This is a summary what needs to be done on PubDB according to the Publications Checklist.' The checklist consists of six items, each with a status icon (a blue circle with three dots for the first item, and a grey circle with an 'X' for the others), a title, and a description. The first item, 'Request a review committee', is active and has a blue button labeled 'Request a review committee'. The other items are marked as incomplete with a grey 'X' icon.

Request a review committee
activated: Sept. 26, 2024, 12:36 p.m.
Who: A convener of the working group
What: Send an automated email to the publications committee asking them to form a review committee for this publication.
[Request a review committee](#)

Invite users to be reviewer or review chair
Who: A member of the publications committee
What: Send invitations to users to be part of the review committee for this publication

Form a review committee
Who: A member of the publications committee
What: Assign at least two reviewers, a review chair and a PC reader

Working group approval
Who: A convener of the working group
What: After approval of the working group, RC review can start

Review committee approval
Who: Anyone from the review committee
What: Mark the initial RC review as finished an the analysis to be considered sound.

Prepare paper draft

When it's time to form a **review committee**, a member of the publications committee can either invite reviewers or assign them directly.

The screenshot shows the PubDB interface for a workspace titled 'Belle II Publications'. The main content is a checklist for the analysis 'Paper for Search for rare $A \rightarrow B^+C^-$ decays'. The checklist is organized into five items, each with a status icon (green checkmark, blue circle with three dots, or grey X) and a 'Who' field. The first item, 'Request a review committee', is completed. The second, 'Invite users to be reviewer or review chair', has an 'Invite reviewers' button. The third, 'Form a review committee', has an 'Assign reviewers' button. The last two items, 'Working group approval' and 'Review committee approval', are marked as incomplete.

Belle II Publications Workspace 4 Settings Logout (PC Chair)

Checklist for the analysis 'Paper for Search for rare $A \rightarrow B^+C^-$ decays'

This is a summary what needs to be done on PubDB according to the [Publications Checklist](#).

- Request a review committee** (Completed)
activated: Sept. 26, 2024, 12:36 p.m.
completed: Sept. 26, 2024, 1:10 p.m.
Who: A convener of the working group
What: Send an automated email to the publications committee asking them to form a review committee for this publication.
- Invite users to be reviewer or review chair** (In Progress)
activated: Sept. 26, 2024, 1:10 p.m.
Who: A member of the publications committee
What: Send invitations to users to be part of the review committee for this publication
[Invite reviewers](#)
- Form a review committee** (In Progress)
activated: Sept. 26, 2024, 1:10 p.m.
Who: A member of the publications committee
What: Assign at least two reviewers, a review chair and a PC reader
[Assign reviewers](#)
- Working group approval** (Not Started)
Who: A convener of the working group
What: After approval of the working group, RC review can start
- Review committee approval** (Not Started)
Who: Anyone from the review committee

When it's time to form a **review committee**, a member of the publications committee can either invite reviewers or assign them directly.

Belle II Publications Workspace 4 Settings Logout (PC Chair)

Checklist for the analysis 'Paper for Search for rare $A \rightarrow B^+C^-$ decays'

This is a summary what needs to be done on PubDB according to the [Publications Checklist](#).

- Request a review committee** (Completed)
activated: Sept. 26, 2024, 12:36 p.m.
completed: Sept. 26, 2024, 1:10 p.m.
Who: A convener of the working group
What: Send an automated email to the publications committee asking them to form a review committee for this publication.
[Invite reviewers](#)
- Invite users to be reviewer or review chair** (In Progress)
activated: Sept. 26, 2024, 1:10 p.m.
Who: A member of the publications committee
What: Send invitations to users to be part of the review committee for this publication.
[Send invitations](#)
- Form a review committee** (In Progress)
activated: Sept. 26, 2024, 1:10 p.m.
Who: A member of the publications committee
What: Assign at least two reviewers, a review chair and a working group convener.
[Assign reviewers](#)
- Working group approval** (Failed)
Who: A convener of the working group
What: After approval of the working group, Request a review committee.
- Review committee approval** (Failed)
Who: Anyone from the review committee

Send invitations

To send out invitations, enter a comma separated list of usernames in the form below.
You can look up usernames at [b2mms](#).

Invite reviewers
Usernames:

Invite a review chair
Usernames:

[Send invitations](#)

Introducing the **workspace**: an overview of your notifications, analyses you're working on, analyses you're reviewing and comments you've left

Belle II Publications Workspace 4 Settings Logout (Proponent 1)

Workspace

Notifications 4 Proposals Reviews Comments

Your proposals

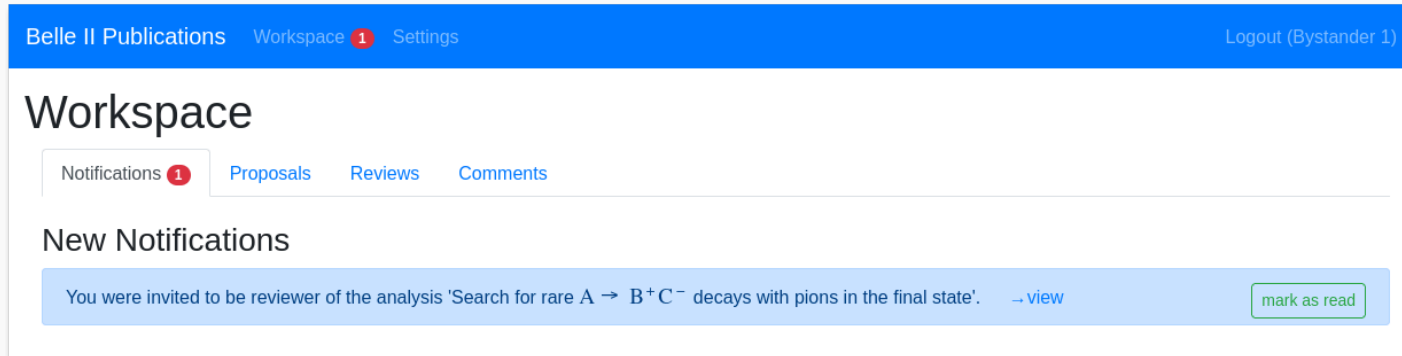
Documents

Title	Belle II Number	Tags	Submit date	Downloads
testnote for Measurement of the branching fraction for $D \rightarrow E^+ F^-$ Internal	BELLE2-NOTE-PH-2024-001	-	2024-09-26	BELLE2-NOTE-PH-2024-001.pdf (0.1)
journalpaper for Measurement of the branching fraction for $D \rightarrow E^+ F^-$ Internal blah	BELLE2-PUB-PH-2024-001	-	2024-09-26	BELLE2-PUB-PH-2024-001.pdf (48h)
testnote for A fantastic paper Internal	BELLE2-NOTE-PH-2024-002	-	2024-09-26	BELLE2-NOTE-PH-2024-002.pdf (0.1)
journalpaper for A fantastic paper Internal	BELLE2-PUB-PH-2024-002	-	2024-09-26	
testnote for Search for rare $A \rightarrow B$ decays Internal	BELLE2-NOTE-PH-2024-003	-	2024-09-26	BELLE2-NOTE-PH-2024-003.pdf (0.1)
journalpaper for Search for rare $A \rightarrow B$ decays Latest Version Public blah	BELLE2-PUB-PH-2024-003	-	2024-09-26	BELLE2-PUB-PH-2024-003.pdf (48h)

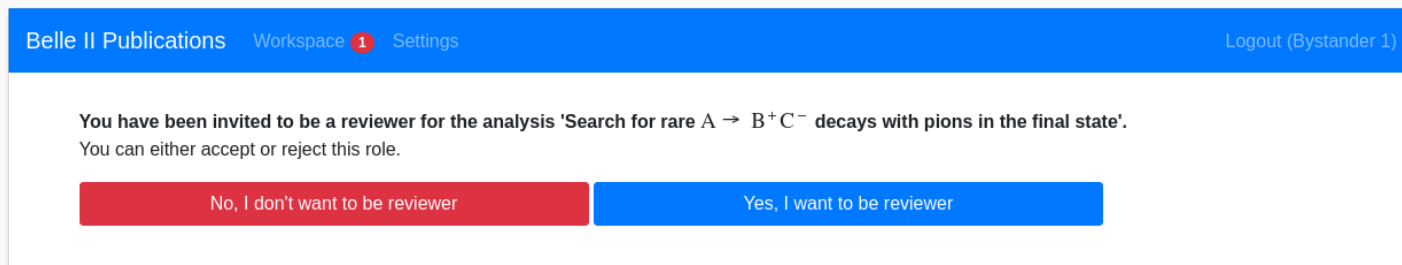
Publications

Title	Belle II Number	Tags	Submission date	Journal	Principal Authors	Preprints	Progress
journalpaper for Measurement of the branching fraction for $D \rightarrow E^+ F^-$	BELLE2-PUB-PH-2024-001	-	Sept. 26, 2024, 1:32 p.m.	Test Journal	Proponent 1, Proponent 2	Belle II preprint: 1234	<div style="width: 100%; height: 10px; background-color: green;"></div> last update: Sept. 26, 2024, 1:32 p.m.

speaking of notifications, this is how it looks like if you've been invited to be reviewer:



you can either accept or deny:



Accepting or denying reviewer invitations will in turn be visible to members of the publication committee:

Invite a review committee for 'Search for rare $A \rightarrow B^+ C^-$ decays with pions in the final state'

Here you can invite reviewers and a review chair for the analysis 'Search for rare $A \rightarrow B^+ C^-$ decays with pions in the final state'. Users who receive an invitation can accept or reject their role on PubDB and are assigned automatically according to their response. A member of the publications committee may edit the composition of the final review committee later.

The following people received an invitation to be a reviewer for this analysis:

[Bystander 2](#), [Representative 3](#)

The following people received an invitation to be review chair for this analysis:

[Representative 3](#)

The following people are currently in the review committee of this analysis (either by accepting an invitation or by direct assignment via a member of the publications committee):

Reviewers: [Bystander 1](#)

Review Chair: -

Send invitations

To send out invitations, enter a comma separated list of usernames in the form below.

You can look up usernames at [b2mms](#).

Invite reviewers

Username:

Invite a review chair

Username:

[Send invitations](#)

The review committee is settled when a PC member assigns them. The form will be automatically filled with everyone who accepted an invitation.

Form a review committee for 'Search for rare $A \rightarrow B^+ C^-$ decays with pions in the final state'

Here you can directly assign reviewers, a review chair and the PC liaison for the analysis 'Search for rare $A \rightarrow B^+ C^-$ decays with pions in the final state'.

Warning! The following users have received an invitation to be reviewer but have not yet accepted or rejected the role:

[Representative 3](#)

Assigning the final review committee will delete their invitations.

Assign roles

To directly assign roles for this analysis, please edit the form below and click 'Save'.

Please assign at least two reviewers. Use a comma separated list of usernames.

You can look up usernames at [b2mms](#).

Usernames:

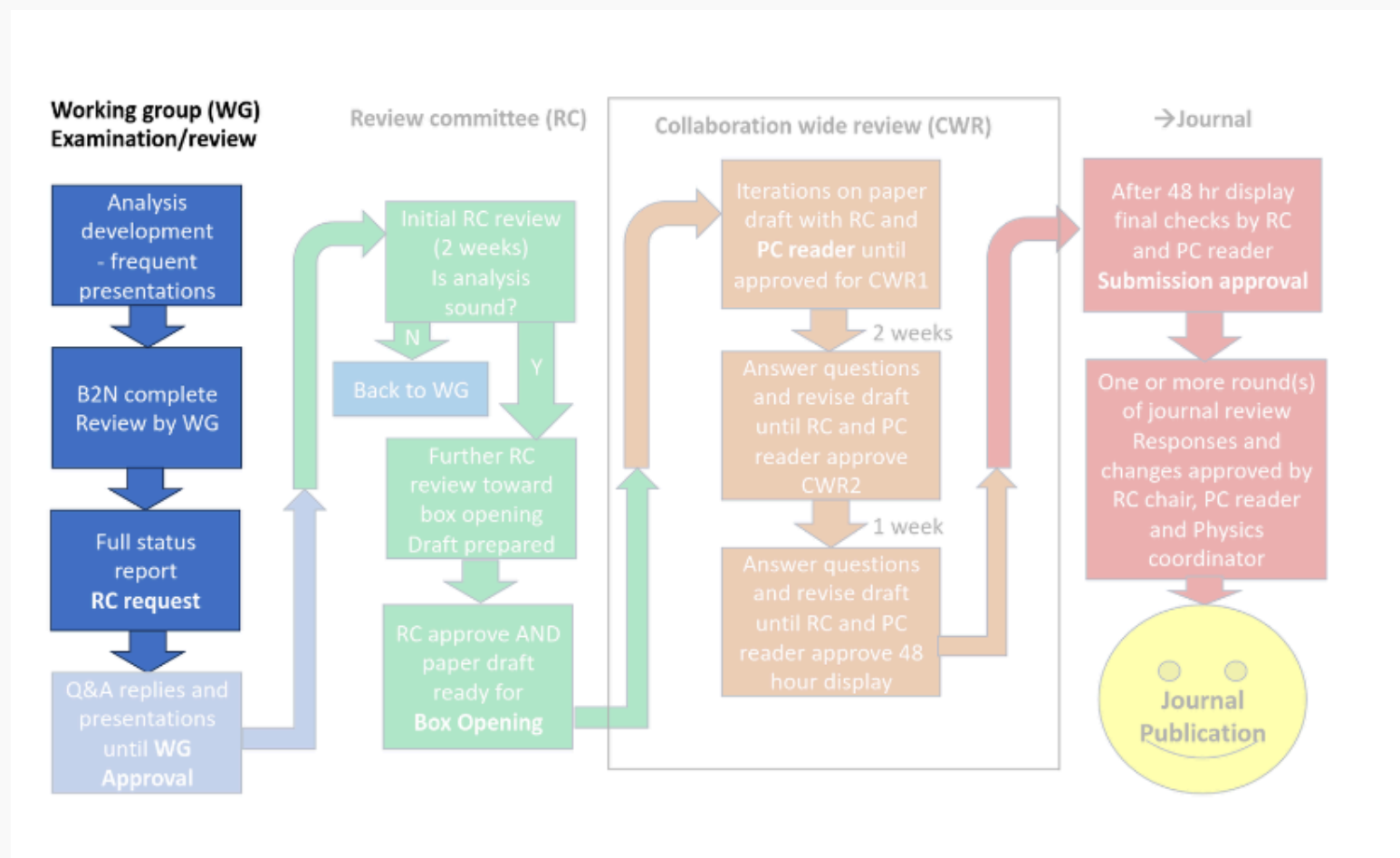
Please assign a review chair

Usernames:

Please assign a PC liaison

Usernames:

quick reminder of what we did so far...



... and how to continue

Working group (WG) Examination/review

- Analysis development - frequent presentations
- B2N complete Review by WG
- Full status report RC request
- Q&A replies and presentations until WG Approval

Review committee

- Initial RC review (2 weeks) Is analysis sound?
- Back to WG
- Further review box opening Draft paper
- RC approval paper ready Box Opening

Belle II Publications Workspace **4** Settings Logout (Proponent 1)

- Working group approval**
activated: Sept. 26, 2024, 1:32 p.m.
completed: Sept. 26, 2024, 1:32 p.m.
Who: A convener of the working group
What: After approval of the working group, RC review can start
Approval given by: Tau Convener
- Initial review committee review**
activated: Sept. 26, 2024, 1:32 p.m.
Who: Anyone from the review committee
What: Mark the initial RC review as finished and the analysis to be considered sound.
[Complete RC review](#)
- Prepare paper draft**
Who: The proponents
What: Prepare a paper draft and upload it to PubDB. Add the title, journal, abstract and a link to the analysis code.
- Approve box opening**
Who: All reviewers

The **edit view** as seen by a proponent.

Belle II Publications Workspace **4** Settings Logout (Proponent 1)

Edit BELLE2-PUB-PH-2024-002

Title*

Abstract

Tags

press CTRL to select multiple tags

Arxiv

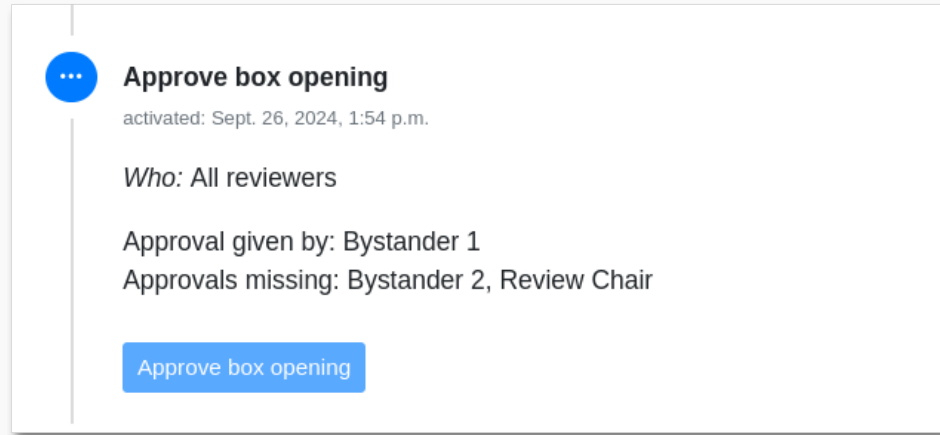
Inspire

Journal
Can't find your journal? [Create it here](#)

Hep data

Preprint number

When it comes to approval of **box opening**, *all* members of the review committee need to tick a checkbox to indicate that they approve box opening.



The screenshot shows a notification card with a blue header containing three dots. The main title is 'Approve box opening' in bold. Below it, the activation date and time are listed: 'activated: Sept. 26, 2024, 1:54 p.m.'. The 'Who' field is 'All reviewers'. The 'Approval given by' field lists 'Bystander 1', and the 'Approvals missing' field lists 'Bystander 2, Review Chair'. At the bottom, there is a blue button with the text 'Approve box opening'.

Approve box opening
activated: Sept. 26, 2024, 1:54 p.m.

Who: All reviewers

Approval given by: Bystander 1
Approvals missing: Bystander 2, Review Chair

Approve box opening

When it comes to approval of **box opening**, *all* members of the review committee need to tick a checkbox to indicate that they approve box opening.

⋮ **Approve box opening**
activated: Sept. 26, 2024, 1:54 p.m.

Who: All reviewers

Approval given by: Bystander 1
Approvals missing: Bystander 2, Review Chair

Approve box opening

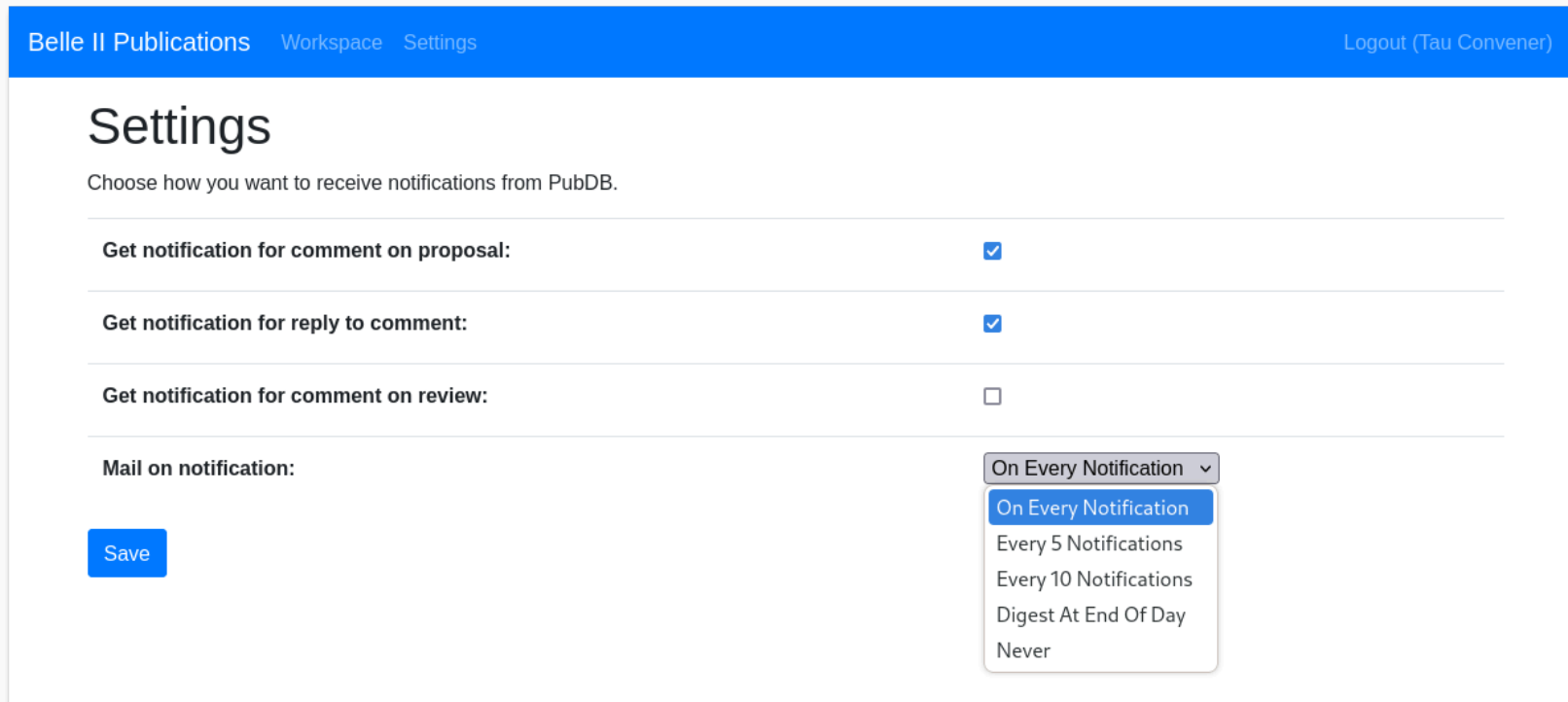
Once every reviewer has done so, all proponents will be notified:

Notifications **1** Proposals Reviews Comments

New Notifications

All members of the review committee approved box opening for the analysis Search for rare $A \rightarrow B^+ C^-$ decays with pions in the final state. It can now be unboxed. [→ view](#) [mark as read](#)

By the way, you can configure if and how you want to get emails for notifications in PubDB:



The screenshot shows the 'Settings' page in the PubDB interface. The top navigation bar is blue and contains 'Belle II Publications', 'Workspace', 'Settings', and 'Logout (Tau Convener)'. The main heading is 'Settings' with a subtitle 'Choose how you want to receive notifications from PubDB.' Below this are three notification settings, each with a checkbox: 'Get notification for comment on proposal:' (checked), 'Get notification for reply to comment:' (checked), and 'Get notification for comment on review:' (unchecked). The 'Mail on notification:' setting is a dropdown menu currently set to 'On Every Notification', with a list of options: 'On Every Notification', 'Every 5 Notifications', 'Every 10 Notifications', 'Digest At End Of Day', and 'Never'. A blue 'Save' button is located at the bottom left of the settings area.

Belle II Publications Workspace Settings Logout (Tau Convener)

Settings

Choose how you want to receive notifications from PubDB.

Get notification for comment on proposal:

Get notification for reply to comment:

Get notification for comment on review:

Mail on notification: On Every Notification ▾

- On Every Notification
- Every 5 Notifications
- Every 10 Notifications
- Digest At End Of Day
- Never

Save

Before **collaboration wide review** can start, the draft must be approved:



Approve box opening

activated: Sept. 26, 2024, 1:54 p.m.
completed: Sept. 26, 2024, 2:05 p.m.

Who: All reviewers

Approval given by: Bystander 1, Bystander 2, Review Chair



Prepare collaboration wide review

activated: Sept. 26, 2024, 2:05 p.m.

Who: The PC reader and the review chair

What: Before collaboration wide review can be requested, the PC reader and the review chair must consider the analysis ready for CWR.

Approval given by: PC Member

Approvals missing: Review Chair

Consider ready for CWR



Start collaboration wide review 1 (2 weeks)

Who: A member of the publications committee

What: Start collaboration wide review. 5 reading institutes will be randomly selected and notified.

After it is approved, an automatically generated email gets sent to the publications committee:

Dear Publications Committee,

The proponents and reviewers confirm that the paper draft is in a shape that it meets the quality criteria for CWR1 and ask to start the collaboration wide review.

Title: journalpaper for email test

Proponents: Proponent 1 <propo1@desy.de>, Proponent 2 <propo2@desy.de>

Reviewers: Review Chair <revchair@desy.de> (chair), Bystander 1 <bystander1@desy.de>, Bystander 2 <bystander2@desy.de>

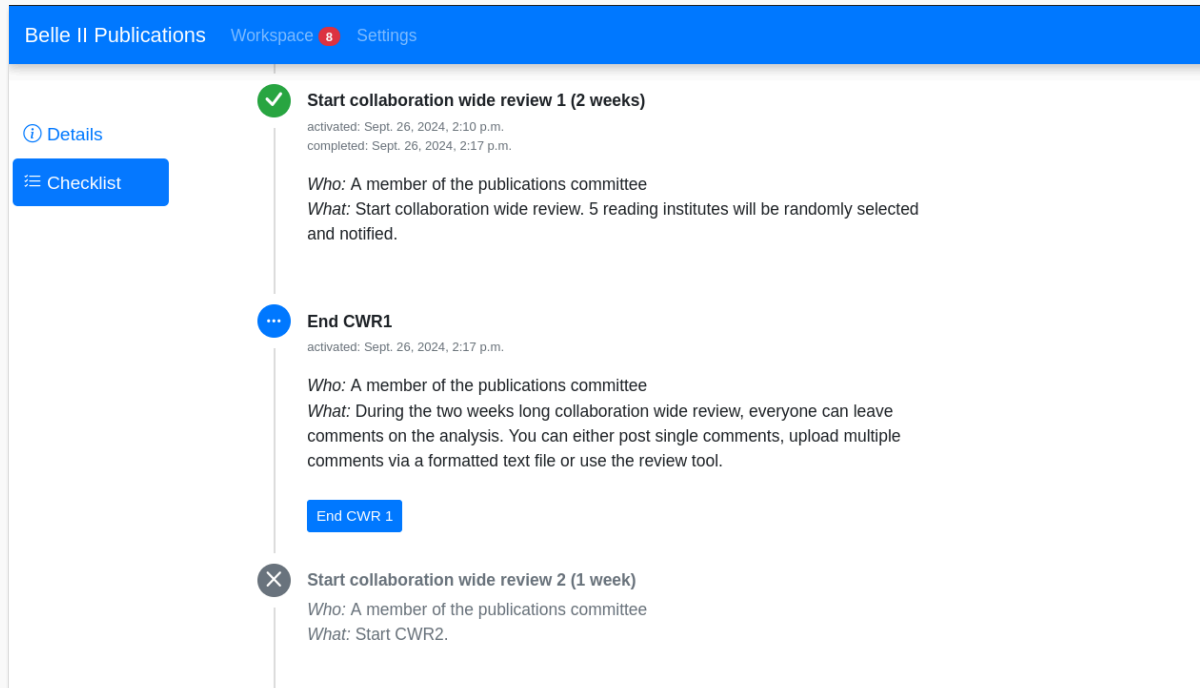
PDF: [BELLE2-PUB-PH-2024-002.pdf](#)

Supplementary material: -s

In order to start collaboration wide review, a member of the committee can visit [the checklist](#) and press the button "Start CWR1". Thanks!

Best regards,
PubDB Bot

Now a member of the publications committee can start collaboration wide review 1. A mail will be sent out to `coll-members` and the status of the paper will be indicated as “CWR1”.

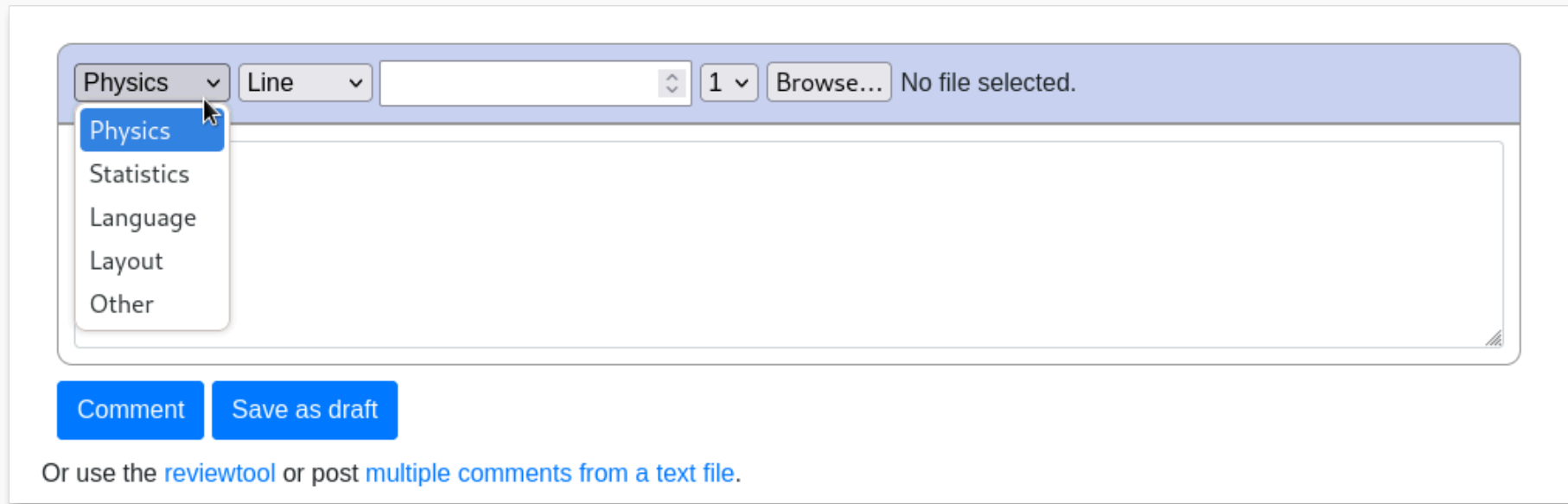


The screenshot shows a web interface for "Belle II Publications" with a blue header bar containing "Workspace" and "Settings". On the left, there is a sidebar with "Details" and "Checklist" buttons. The main content area displays a vertical timeline of tasks:

- Start collaboration wide review 1 (2 weeks)** (checked):
 - activated: Sept. 26, 2024, 2:10 p.m.
 - completed: Sept. 26, 2024, 2:17 p.m.
 - Who:* A member of the publications committee
 - What:* Start collaboration wide review. 5 reading institutes will be randomly selected and notified.
- End CWR1** (pending):
 - activated: Sept. 26, 2024, 2:17 p.m.
 - Who:* A member of the publications committee
 - What:* During the two weeks long collaboration wide review, everyone can leave comments on the analysis. You can either post single comments, upload multiple comments via a formatted text file or use the review tool.
 - End CWR 1 button
- Start collaboration wide review 2 (1 week)** (pending):
 - Who:* A member of the publications committee
 - What:* Start CWR2.

Everyone is invited to leave **comments**.

A comment contains (markdown-formatted) text that can optionally refer to a topic (physics, statistics, language, layout, other), a line (or figure or table) number and the version of the draft it is referring to.



The image shows a comment form interface. At the top, there is a blue header bar containing a dropdown menu set to "Physics", another dropdown set to "Line", a text input field, a small "1" dropdown, a "Browse..." button, and the text "No file selected.". Below the header is a large white text area. At the bottom of the form, there are two blue buttons: "Comment" and "Save as draft". Below the buttons, there is a line of text: "Or use the [reviewtool](#) or post [multiple comments from a text file](#)."

Uploading comments as a file is also supported.

Comments can be **replied** to, they can be **marked as resolved** (by the author of the comment) and they can be **filtered** to help proponents address them in an organized manner.

Comments

Filter comments:
Kind:
Refers to version:
Marked as resolved:
Status:
User:

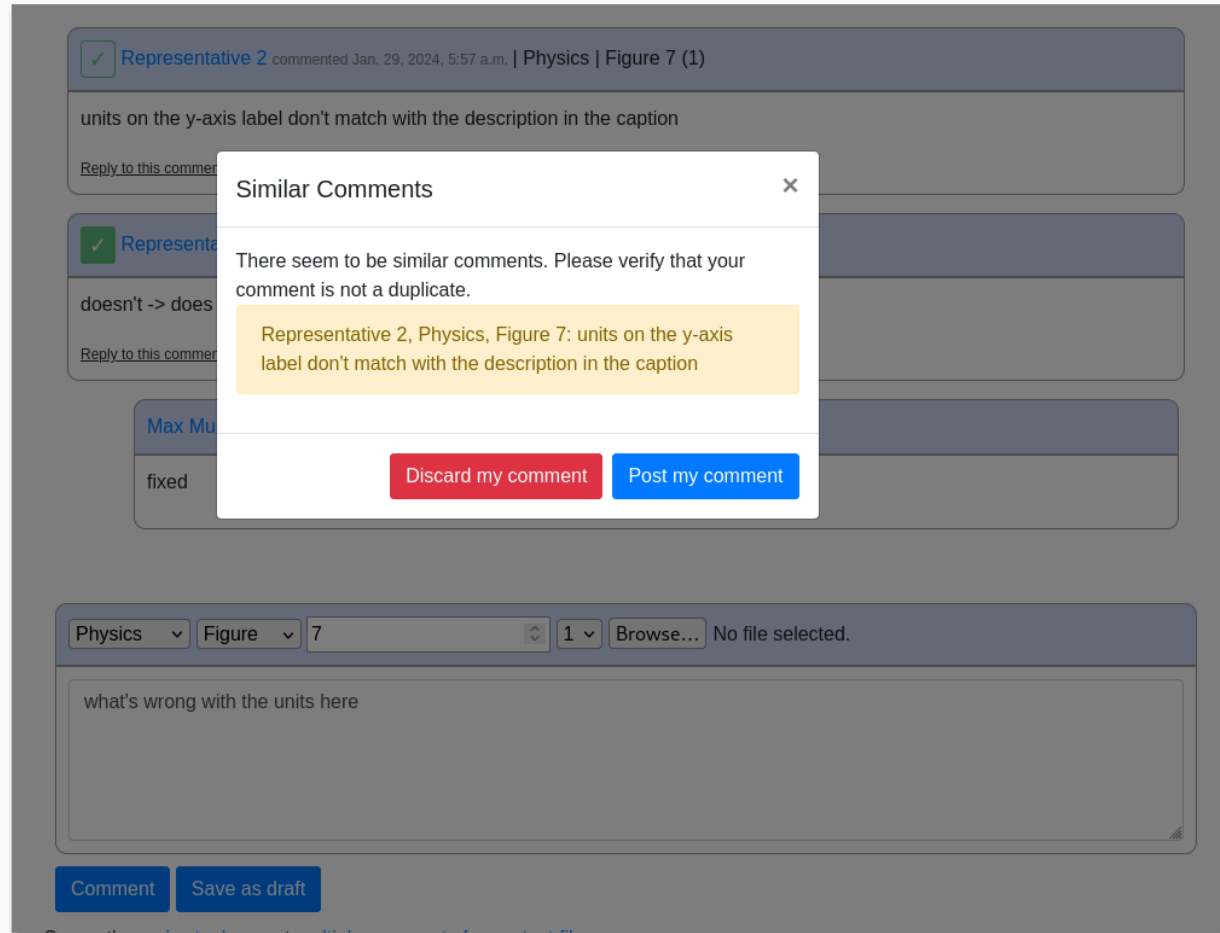
Representative 2 commented Jan. 29, 2024, 5:57 a.m. | **Physics** | **Figure 7 (1)**
units on the y-axis label don't match with the description in the caption
[Reply to this comment](#)

Representative 2 commented Jan. 29, 2024, 6 a.m. | **Language** | **Line 342 (1)**
doesn't -> does not
[Reply to this comment](#)

Max Muster replied Jan. 29, 2024, 6:01 a.m.
fixed

please excuse slightly ugly HTML

PubDB tries to detect similar comments in order to **avoid duplicate comments.**



The **review tool** view shows the comment form and your own comments side by side with the draft pdf to aid with a smooth workflow for reviewers.

The screenshot displays the Belle II Publications Review Tool interface. The top navigation bar includes 'Belle II Publications', 'Workspace', 'Settings', and a 'Logout (Proponent 1)' link. The main content area is divided into two panels.

Review Tool Panel (Left):

- Comment Header:** Shows a comment by 'Proponent 1' from Jan. 31, 2024, 1:27 a.m. in the 'Physics' category. It includes an 'Edit' button and a '0' reply count.
- Comment Text:** 'here's a lengthy description of *my thoughts* on this matter; they don't refer to a specific line but is rather a **general** overarching comment to show'.
- Features:** Lists 'cool markdown' and 'formatting capabilities'.
- Input Area:** A text box containing 'you say' and 'we can't measure this'.
- Buttons:** 'but i say otherwise' and 'Reply to this comment'.
- File Selection:** A dropdown menu set to 'Physics' and 'Line', with a 'Browse...' button and the text 'No file selected.'.
- Actions:** 'Comment' and 'Save as draft' buttons.

PDF Preview Panel (Right):

- Title:** 'journalpaper for dummy analysis' with a 'Go to details' link.
- Page Info:** '1 of 2' and 'Automatic Zoom'.
- Text:** The document contains Latin text: 'sit. At etiam Athenis, ut e patre audiebam facete et urbane Stoicos irridente, statua est in quo a nobis philosophia defensa et collaudata est, cum id, quod maxime placeat, facere possimus, omnis voluptas assumenda est, omnis dolor repellendus. Temporibus autem quibusdam et.' followed by a section titled '1 Introduction' with a Lorem Ipsum placeholder.
- Page Number:** '1' is visible at the bottom of the page.

Multiple versions of the paper as well as supplemental material can be uploaded by the proponents.

- version numbers in the format “X.Y” are automatically increased
- proponents can mark an upload as a “major change” which increases the major version
- on CWR1, CWR2 and the 48h display, versions are aliased so that they can be found quickly

Files

- [BELLE2-PUB-PH-2024-005.pdf](#) (versions: 1.3, 48h, CWR2, 1.0, CWR1, 0.1)
- [BELLE2-PUB-PH-2024-005-supplemental.pdf](#) (versions: 48h)

Upload

Upload supplementals

After CWR1, CWR2 and the 48h display it becomes straightforward (at least on PubDB): someone from the publications committee can approve submission, a proponent can set the status to **submitted** and finally set it to **published**.

Yay!

The screenshot displays the 'Belle II Publications' interface. At the top, there is a blue navigation bar with 'Belle II Publications', 'Workspace' (with a red notification icon), and 'Settings'. On the left side, there are two buttons: 'Details' (with an information icon) and 'Checklist' (with a list icon). The main content area shows a vertical checklist of tasks, each with a green checkmark icon and a title. The tasks are: 'Approve Submission', 'Submission', 'Set ArXiv link', 'Resubmission preparation (optional)', and 'Publish'. Each task includes its activation and completion dates (Sept. 26, 2024, 1:33 p.m.) and a description of who performs the task and what it entails.

- Approve Submission**
activated: Sept. 26, 2024, 1:33 p.m.
completed: Sept. 26, 2024, 1:33 p.m.
Who: The publications committee chair or review chair
Approval given by: PC Chair
- Submission**
activated: Sept. 26, 2024, 1:33 p.m.
completed: Sept. 26, 2024, 1:33 p.m.
Who: A proponent
What: After the proponents submitted the paper to arXiv and the journal, they can mark the publication as submitted.
- Set ArXiv link**
activated: Sept. 26, 2024, 1:33 p.m.
completed: Sept. 26, 2024, 1:33 p.m.
Who: A proponent
- Resubmission preparation (optional)**
activated: Sept. 26, 2024, 1:33 p.m.
Who: A proponent
What: When the proponents receive comments from the journal referees, they prepare answers and an updated draft and set the status to resubmission preparation. After that, submission needs to be approved again.
- Publish**
activated: Sept. 26, 2024, 1:33 p.m.
completed: Sept. 26, 2024, 1:33 p.m.
Who: A proponent
What: Once the analysis is published, set the status to public.

This is how the final paper record looks like

Belle II Publications Workspace 7 Settings

journalpaper for Search for rare $A \rightarrow B$ decays

Visibility: Latest Version Public

Progress

Published on Sept. 26, 2024

Paper

Tags: Belle Run 2 Edit

Proponents	Proponent 1 , Proponent 2
Submit date	Sept. 26, 2024, 1:33 p.m.
Working group	physics-PHYSICS_TAU
Belle II Number	BELLE2-PUB-PH-2024-003
Abstract	blah
ArXiv	1234.1234
Journal	Test Journal
Preprint Number	1234
Analysis	Search for rare $A \rightarrow B$ decays

Files

- [BELLE2-PUB-PH-2024-003.pdf](#) (versions: 48h) Upload Upload supplementals

Publication

Publication date	publication_date
Mailing list	b2n-2024-003@belle2.org (Sympa)
Reviewers	Bystander 1 , Bystander 2
Review Chair	Review Chair
PC Reader	PC Member
Presentation	-
Source code	-

...and the record for its analysis

Belle II Publications
Workspace 7 Settings
Logout (Proponent 1)

journalpaper for Search for rare $A \rightarrow B$

Visibility: Latest Version Public

Progress

Published on Sept. 26, 2024

Paper

Tags: Belle Run 2

Proponents	Proponent 1, Proponent 2
Submit date	Sept. 26, 2024, 1:33 p.m.
Working group	physics-PHYSICS_TAU
Belle II Number	BELLE2-PUB-PH-2024-003
Abstract	blah
ArXiv	1234.1234
Journal	Test Journal
Preprint Number	1234
Analysis	Search for rare $A \rightarrow B$ decays

Files

- [BELLE2-PUB-PH-2024-003.pdf](#) (versions: 48h)

Publication

Publication date	publication_date
Mailing list	b2n-2024-003@belle2.org (Sympa)
Reviewers	Bystander 1, Bystander 2
Review Chair	Review Chair
PC Reader	PC Member

Presentation	-
Source code	-

Search for rare $A \rightarrow B$ decays

Working Group	physics-PHYSICS_TAU
Proponents	Proponent 1, Proponent 2

Notes

Create new Note

Title	Belle II Number	Tags	Submit date	Downloads
testnote for Search for rare $A \rightarrow B$ decays Internal	BELLE2-NOTE-PH-2024-003	-	2024-09-26	BELLE2-NOTE-PH-2024-003.pdf (0.1)

Publications

Title	Belle II Number	Tags	Submission date	Journal	Principal Authors	Preprints	Progress
journalpaper for Search for rare $A \rightarrow B$ decays	BELLE2-PUB-PH-2024-003	Belle Run 2	Sept. 26, 2024, 1:33 p.m.	Test Journal	Proponent 1, Proponent 2	Belle II preprint: 1234 ArXiv: 1234.1234	Published on Sept. 26, 2024

Other documents

There are no other documents for this analysis yet.

Public view of the same paper

The screenshot shows a web browser window displaying the Belle II Publications page for a specific paper. The page has a blue header with the text 'Belle II Publications' and a 'Login' link. The main content area features the title 'journalpaper for Search for rare $A \rightarrow B$ decays' in a large font. Below the title, it indicates the category as 'Physics / performance paper' and the visibility as 'Latest Version Public'. There are two tags: 'Belle II' and 'Run 2'. A table lists various metadata fields such as Proponents, Submit date, Working group, Belle II Number, Abstract, ArXiv, Journal, Preprint Number, and Analysis. Below the table, there is a 'Files' section with a link to the PDF version of the paper. The footer contains information about the Belle II PubDB, its maintainer, and the version of the software used.

Belle II Publications Login

journalpaper for Search for rare $A \rightarrow B$ decays

Category: Physics / performance paper, Visibility: Latest Version Public

Tags: Belle II Run 2

Proponents	Proponent 1 , Proponent 2
Submit date	Sept. 26, 2024, 1:33 p.m.
Working group	physics-PHYSICS_TAU
Belle II Number	BELLE2-PUB-PH-2024-003
Abstract	blah
ArXiv	1234.1234
Journal	Test Journal
Preprint Number	1234
Analysis	Search for rare $A \rightarrow B$ decays

Files

- [BELLE2-PUB-PH-2024-003.pdf](#) (versions: 48h)

Belle II PubDB
maintained by david.koch@physik.uni-muenchen.de
Powered by PubDB v0.2.2

Development



Timeline

October

- finish beta testing
- implement critical fixes / features
- prepare migration from Invenio to PubDB

November

- migrate
- test migration

December

- collaboration switches to PubDB
- 2.12. put Invenio in read-only mode

Timeline

- 28.2. turn off Invenio



Development takes place on [DESY Gitlab](#).

Try it out yourself! Easiest with docker:

```
docker login gitlab.desy.de:5555 # use DESY credentials
docker run -p 8000:8000 -it gitlab.desy.de:5555/belle2/admin/pubdb/demo:0.2.2
```

then visit <http://127.0.0.1:8000> in your browser. You can log in as any test user to visit the site from the point of view of any role (eg. proponents of a testanalysis, conveners, PC member, ...). Find more information in the README.

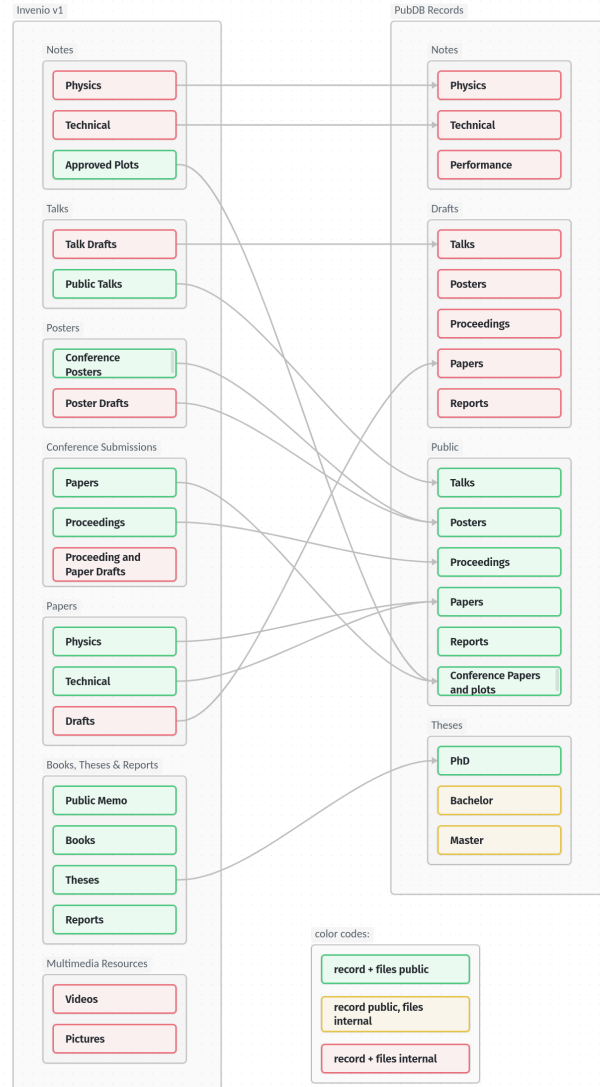
To report a bug, give feedback or to suggest a feature, please open an [issue](#) or drop me a message at david.koch@physik.uni-muenchen.de or/and meet me in the coffee break.



Backup



Migration of categories



Document server

The current docs.belle2.org is used to host and categorize pdfs and plots.

Both server and software (called **invenio** v1) are severely outdated and unmaintained → needs replacement for security reasons, especially the server



The screenshot displays the Belle II Document Server interface. At the top left is the Belle II logo, and to its right is the text "BELLE II DOCUMENT SERVER". A user profile icon for "David Koch - campus.lmu.de" is visible in the top right corner. Below the header is a navigation bar with links for "Search", "Submit", "Personalize", "Help", and "Administration". The main content area shows a search bar with "Search 3,769 records for:" and a dropdown menu set to "any field". There are "Search" and "Browse" buttons, along with links for "Search Tips" and "Advanced Search".

The "Narrow by collection:" section lists various document types with checkboxes and counts:

- Belle II Notes (Public)** (1,09)
- Belle II Notes - Approved plots (1,06)
- Belle II Notes (Internal)** (685) [restricted]
- Belle II Notes - Technical (229) **Belle II Notes - Physics** (456)
- Talks** (2,087)
- Public Talks (1,055) **Talk Drafts (Internal)** (1,800)
- Posters** (87)
- Conference posters (51) **Poster drafts (Internal)** (41)
- Conference Submissions** (462)
- Papers (36) **Proceedings** (210) **Proceeding and Paper Drafts (Internal)** (220)
- Papers** (76)
- Papers - Technical (7) **Papers - Physics** (4) **Paper Drafts (Internal)** (66)
- Books, Theses & Reports** (326)
- Public Memo (10) **Books** (2) **Theses** (310) **Reports** (4)
- Multimedia Resources** (14) [restricted]
- Videos (Internal) (1) **Pictures (Internal)** (13)

The "Focus on:" section includes a link for **Public Talks** (1,055). The "Search also:" section has a checked checkbox for **INSPIRE**.

On the right side, there are sections for "ABOUT THIS SITE" (Welcome to the Belle II Document Server), "Tips" (To search through the full text of all documents in the repository use the "fulltext" field in the dropdown search menu), and "SEE ALSO" (Belle II SuperKEK).

At the bottom left, there is a footer with the following text: "Belle II Document Server : Search : Submit : Personalize : Help", "Powered by [Invenio v1.1.2](#)", "Maintained by b2helpdesk@belle2.org", "https://", and "Last updated: 29 Jan 2024, 13:44".

Document server

The current docs.belle2.org is used to host and categorize pdfs and plots.

Both server and software (called **invenio** v1) are severely outdated and unmaintained → needs replacement for security reasons, especially the server

Possible strategies:

1. update only the server and don't change invenio
2. update both server and invenio
3. implement document hosting capabilities in PubDB



Updating invenio

Invenio has been completely overhauled, is now at version 3 and is called **InvenioRDM**.

- spent a considerable amount of work trying to get a production-ready InvenioRDM instance and preparing migration from v1 to v3, but did not succeed
 - vast complexity for a relatively small aspect of the problem (hosting documents)
- not feasible for our usecase
- implement hosting capabilities ourselves in PubDB
- one app to rule them all

It is possible to upload many comments at a time via a specially formatted text file

Belle II Publications Workspace Settings Logout (Representative 2)

Please upload a text file with your formatted comments on **Search for rare $A \rightarrow B^+C^-$ decays with pions in the final state.**

Comments must be formatted like this:

- comments are separated by an empty line
- Xy: comment text... where X is an (optional) identifier of the type of comment: P for physics, S for statistics, L for language, and Y for layout and y (optionally) indicates the location: an integer number for a line, "f" + an integer number for a figure, and "t" + an integer number for a table

Examples for a valid comments are e.g.

- Pf7: physics comment about figure 7
- 24: general comment on line 24
- S: statistics comment about the entire paper
- Y546: comment about layout in line 546
- Lt2: comment about language in table 2
- generic comment

After uploading your form, you can edit your comments before posting them.

File: No file selected.

```
Pf7: physics comment about figure 7

24: general comment on line 24

S: statistics multiline comment
about the entire paper

Y546: comment about layout in line 546

Lt2: comment about language in table 2

generic comment

Sf: faulty comment
```