

Early Career Researchers

An essential part of the Collaboration

Early Career Researchers (ECR)

- Essential part of the Collaboration: ~52% of all active members
- Defined as: undergraduate, MSc students, PhD students and term-limited physicists (post-docs)
- ECR Membership automatically granted to any Belle II member in these categories
- ECRs elect representatives that work as a bridge to the management



Existing communities

Belle II ECRs

Communication with Executive Board (EB),
Institutional Board (IB) and spokesperson

Representatives



Laura Salutari
PhD Roma Tre



Isabelle Ostrowski
PhD Melbourne



Valerio Bertacchi
Postdoc Bonn

Belle II Germany ECRs

Communication with
German group leaders (PIs)

Representatives



Lorenz Gärtner
PhD LMU

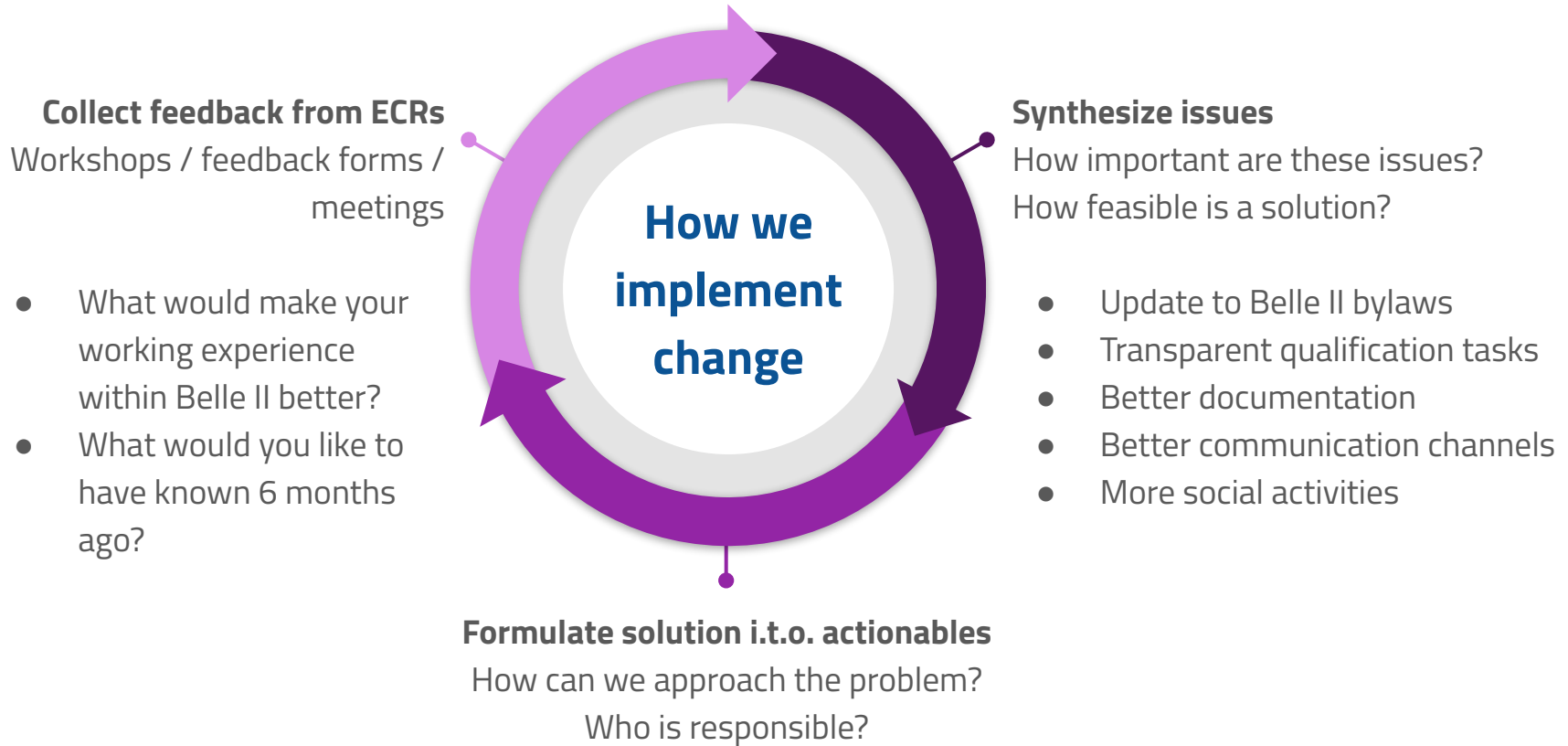


Ana Luisa Carvalho
Postdoc DESY

Existing communities | Organization

- Germany is the only country with their own ECR representatives
- Other countries welcome to elect their own representatives
 - We are happy to support it
- Belle II and Germany ECR representatives collaborate as a single team to identify potential improvements.





Official status | Belle II bylaws

- ECR community and representatives to be formally added to Belle II [bylaws](#)
 - Bylaw changes require a vote by the Institutional Board (IB), making it a lengthy process.
- Proposal is ready and will be voted on at the October B2GM IB meeting.
- **What does the proposal include?**
 - Defines ECRs and grants automatic membership based on B2MMS category.
 - Two reps (1 postdoc, 1 PhD student) elected by all ECRs, organized by current reps.
 - Candidates are nominated or (self-)nominated.
 - Reps serve 1-year terms, renewable once (max 2 years).
 - Reps support ECR needs, promote participation, and act as liaisons with management.
 - If a rep steps down, current reps find a replacement, approved by ECR vote.

Belle II bylaws

June 19, 2017: Adopted by the Institutional Board
Oct. 11, 2017: Code of conduct, bylaw on joint membership added
Feb. 5, 2018: Text on replacing elected positions
June 18, 2018: Add SuperKEKB representative as regular EB member
Oct. 15, 2018: Additional code of conduct text
June 17, 2019: Add Deputy Spokesperson
Oct. 21, 2019: Quorum for electronic votes; clarify pub and speakers chair elections; tied elections; Emeritus authorship; clarify voting to remove chairs and members
Feb. 11, 2021: Software review; diversity talks; review talks
Oct. 15, 2021: Voting method
Jan. 22, 2022: Clarify role of publications committee
Sep. 23, 2022: Remove term limits on pub committee; specify start of IB and spokes terms
Mar. 7, 2023: Add Expired and Phasing out statuses
Oct. 23, 2023: Lower quorum for announced votes, Deputy Physics Coordinator added
Oct. 7, 2024: Review process adjusted to current guidelines
Feb. 26, 2025: Optional fast-track admission of faculty/staff members
Apr. 6, 2025: Early Career Researchers section
Jun. 16, 2025: Optional fast-track admission of emeritus members

Qualification tasks (QT)

- **Issue:** difficult to find updated task list, lack of transparency in timeline and supervision
- **Action:** qualification tasks become [gitlab](#) issues
- **Status:**
 - Proposal well-received
 - Already 6 QT [gitlab](#) issues
 - Several "Qualification task" issues in BASF2, but not listed on the [dedicated gitlab page](#).
- **QT recommendations for newcomers:**
 1. Ask local group first (local supervision is better)
 2. Check [dedicated gitlab page](#) for available tasks
 3. Check basf2 repository for [issues with the label "Qualification task"](#)
- If you are interested, check if issue is already assigned (under "Assignee")
 - If not, contact the author



Qualification tasks (QT) | Example of gitlab issue

Implementation of individual beam angles measurement to offline calibration

Open Issue created 4 months ago by Radek Zlebcik

The accelerator group needs proper monitoring of the time-dependence of the HER and LER beam angles and energies. To achieve it, one calibration still has to be implemented in the offline calibration system. The measured beam momenta can be also used as an input in the MCrd.

The missing calibration is the beam angle in the CM system obtained from the pure boost and it has to be implemented in the CAF. The calibration is based on ee-> ee mu mu events, where the invariant mass of mumu system is low. A new HLT skim may be needed.

As this service task is about the implementation of the missing calibration into basf2, the knowledge of Belle II software is of the advantage.

0

0

Add design

Create merge request

▼

Child items 0

Add ▼ ⋮ ^

No child items are currently assigned. Use child items to break down work into smaller parts.

Linked items 0

Add ⋮ ^

Link items together to show that they're related.

Activity

All activity ▼

Oldest first ▼

Edit

⋮

Assignee

None - assign yourself

Edit

Labels

Qualification Task x

Edit

Parent

None

Edit

Milestone

None

Edit

Dates

Start: None

Due: None

Edit

Time tracking

Add an estimate or time spent.

+

1 Participant

Documentation and accessibility

- Belle II documentation: [XWiki](#)
- **Issue:** only VPN / ssh tunnelling to access from outside DESY
- **Current recommendation:** [EduVPN](#)
 - Routes only traffic from [desy.de](#) pages
 - Requires a DESY account

Installation and usage

The screenshot shows a web browser window displaying a XWiki page. The page title is "Collaborative Services and Tools (B2CS) cont'd". The XWiki logo is in the top right corner. The page content is a list of bullet points. Several lines of text are circled in red, indicating key information or issues. The red circles highlight the following text:

- Final (sic!) migration from confluence to XWiki in Sep 2024
- Login with account/password + TOTP (MFA)
- Security situation is considered severe and required action
- Write-access to XWiki within the DESY intranet only (KEK DAQ considered internal!)
- Since Dec 3rd, 2024 the XWiki is operated behind the DESY firewall
- Although various DESY groups raised their concern the DESY security group directed this change
- As a mitigation measure a READ-ONLY dump is foreseen and shall be available (very) soon
- We would need login for the internal pages though whereas public is public ...
- Maybe a separation of internal and public pages into different XWiki spaces is needed
- Write-access shall be possible in the intranet only

The page number "Page 4" is visible in the bottom right corner.

Belle II Collaborative Services and Tools (B2CS), 11 Feb 2025
<https://indico.belle2.org/event/14346/>

Documentation and accessibility | Belle II welcome packet

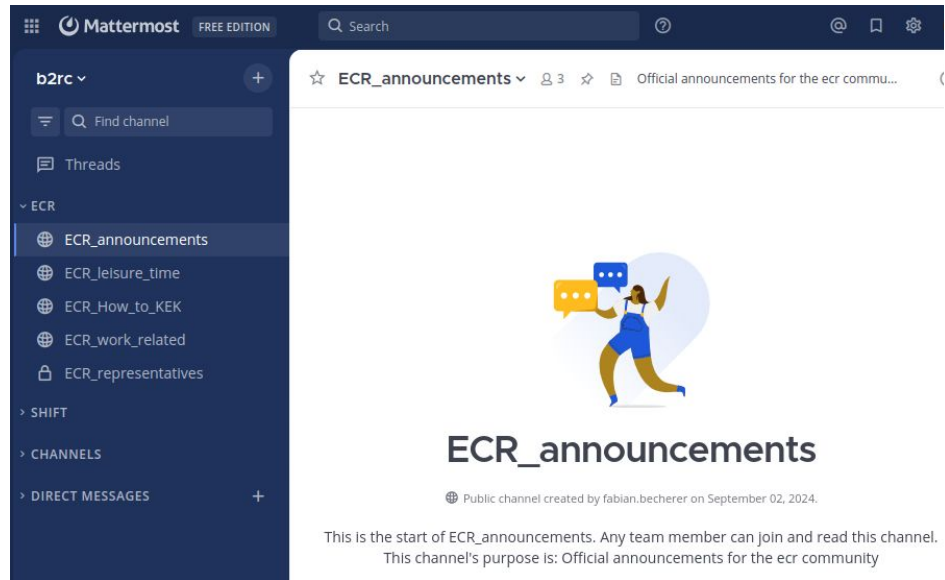
- Under development by Belle II ECR representatives
 - Collection of useful pages and documents for newcomers
 - Belle II workplace guidelines
 - Contacts
 - Computing services and accounts
 - Introduction to WG structure
 - Service tasks/authorship qualification
 - Shift work
 - Visiting KEK
 - We want [your input!](#)
-
- Overlap with “Landing page” currently under development by the software group
 - Discussion with Pryanka to increase communication between ECRs and software/documentation



**Belle II welcome
packet survey**

Communication channels

- Mattermost is the chosen platform.
 - Default tool for shifts
- Start structure for communication channels:
 - [ecr announcements](#):
 - official announcements
 - [ecr work related](#):
 - coding support / useful resources
 - [ecr leisure time](#):
 - non-work related / social interactions, e.g. Meet-up at KEK
 - [ecr how to kek](#):
 - advice for life at KEK, including travel and living recommendations
- Just use the links or use the search function!

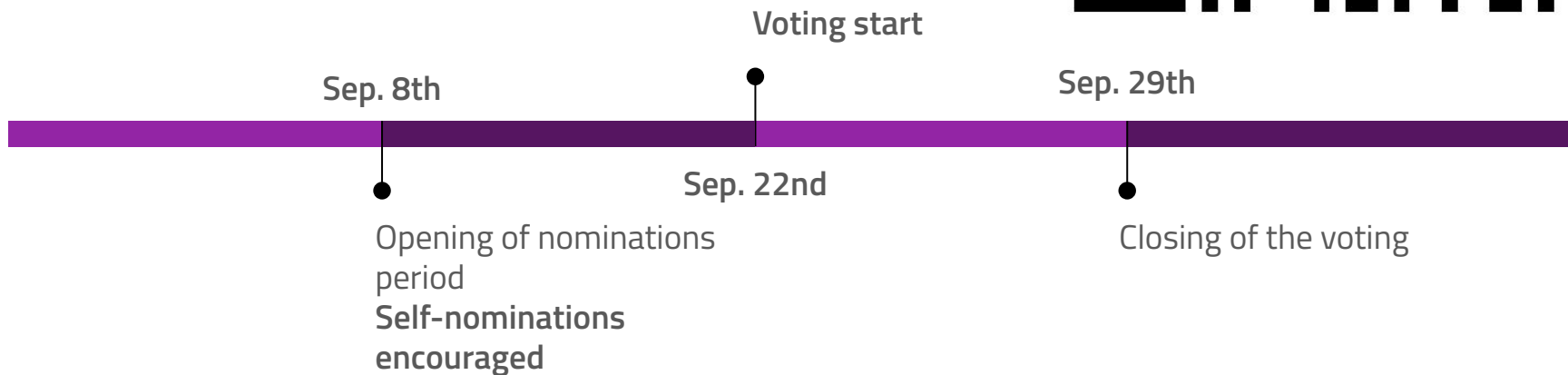


General information:

[https://b2chat2.kek.jp/HowToChat\(Mattermost\)](https://b2chat2.kek.jp/HowToChat(Mattermost))

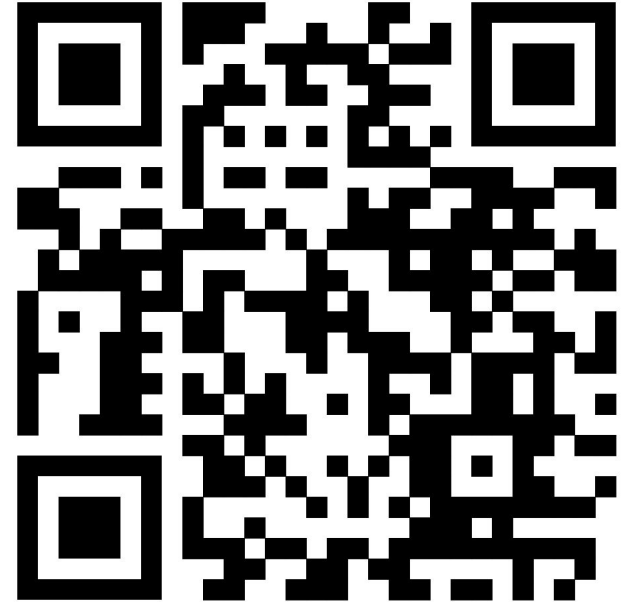
Voting and new representatives

- Terms of German reps end
- (Self-)nominations
coll-ecr-representatives@belle2.org
- This is your change to contribute! Join a great team!



Questionnaire on ECR situation and well being

- We want to know how you feel and what is important to you.
- What are issues you are struggling with?
- <https://forms.gle/9XXrMHPuZvDu8cZn8>

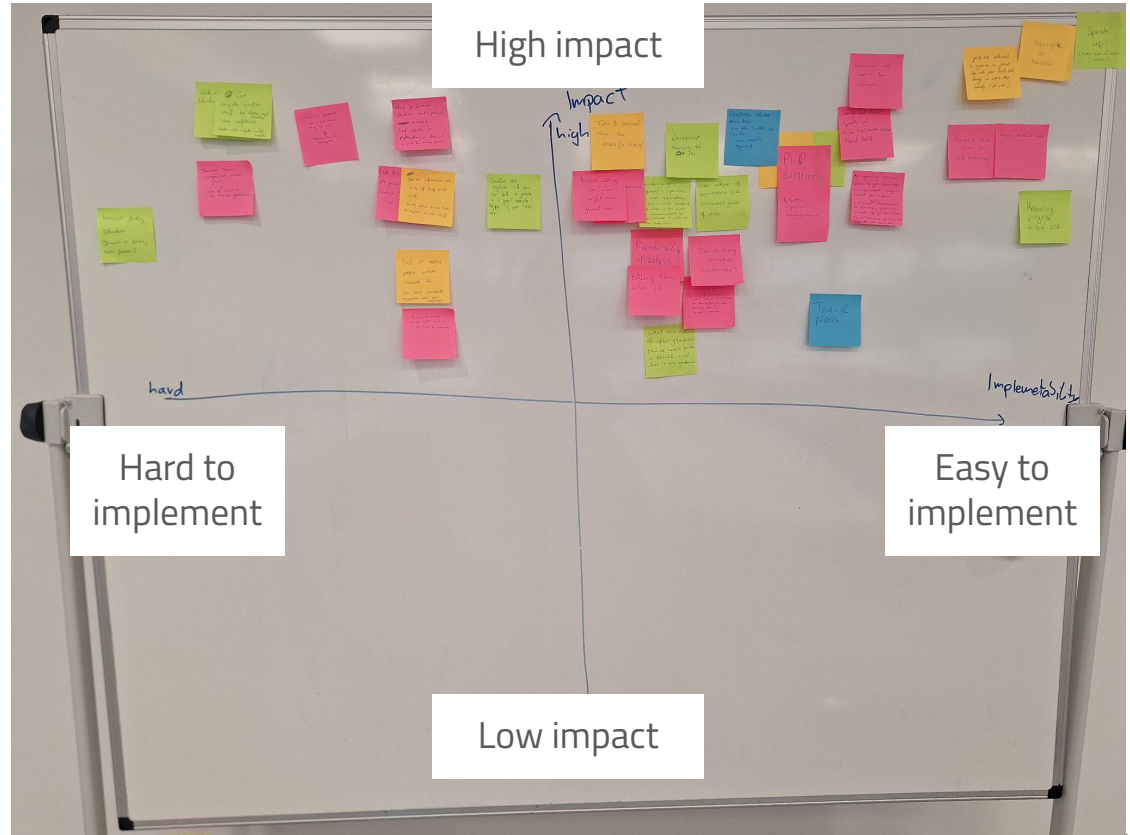


News from the ECR session

What would you like to have known 6 months ago?

- Research
- Service task
- Social life / networking
- Mental health

Categorise ideas/concerns/suggestions into impact (high/low) and implementability (easy/hard).



What would you like to have known 6 months ago?



What would you like to have known 6 months ago?



Career development and training

- Career paths after master's (in Science and in Belle II) ⇒ [research-in-germany.de](https://www.research-in-germany.de)
- Relevant physics/techniques at the beginning of master's/PhD, not only about Belle II
 - Partially targeted by Welcome package
- Mentoring program ECR to ECR
 - Tried at a past B2GM ⇒ Not enough mentees interested, to be tried again



Work structure and expectations

- Clear expectations at the beginning of PhD ⇒ Suggestion: leadership/supervision training for PIs
- How often to present in working group meetings?
 - For analysts: as often as possible, even once a week is more than welcome
 - Suggestions for conveners: directly request presentations from certain analysts, organize (more) regular round tables dedicated to subgroups of analyses

What would you like to have known 6 months ago?

Analysis reproducibility and standardized procedures

- Code for an analysis is uploaded ⇒ Can it really be reused?
- We still cannot agree on a plotting standard... ⇒ [plothist](#)

Technical contributions

- Consistency/harmonization of service tasks among the different groups
- Push for technical papers: beneficial to cite and to reward technical work

Conclusions and outlook

ECR's are an essential part of the Collaboration: no physics results without ECR's

- Eventful year for ECR representatives
- Multiple activities started and with visible progress
- Topics discussed in the ECR session can become the basis for the work developed by the next ECR representatives
- Being an ECR representative is exciting, fulfilling and an opportunity to advocate for the well-being of everyone in the Collaboration
 - Consider self-nominating

Backup

What would you like to have known 6 months ago?

- Insecure funding situation
- Disconnect between physics and detector groups + lack of visibility of detector work
- Not clear from the beginning that on-site shifts are possible/beneficial
- Lack of opportunities to meet people outside the institute (especially for master's students)
- Deadlines are negotiable
 - Talk to people, always, as soon as you need

What would you like to have known 6 months ago?

- Overview of career paths after master's (in Science and in Belle II) ⇒ [research-in-germany.de](https://www.research-in-germany.de)
- Clear expectations at the beginning of PhD (working hours, goals, recommendations, how to assess progress, ...)
 - Related/suggestion: leadership/supervision training for PIs
- Analysis reproducibility and standardized procedures
 - Code for an analysis is uploaded but can it really be reused?
 - We still cannot agree on a plotting standard... ⇒ [plotlist](https://www.plotlist.org/)
- Consistency/harmonization of service tasks among the different groups
- Technical papers (push from detector groups): beneficial to cite and to reward technical work
- Overview of relevant physics/techniques at the beginning of master's/PhD, not only about Belle II
 - Partially targeted by Welcome package
- What are the expectations for frequency of presentations in WGs?
 - For analysts: present more often, even once a week is more than welcome
 - For conveners: can push for this a bit more by directly requesting presentations from certain analysts or organizing more regular round tables dedicated to subgroups of analyses
- Mentoring program ECR to ECR