



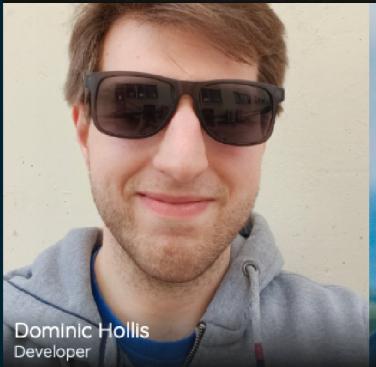


8 years of Indico-JACoW collaboration

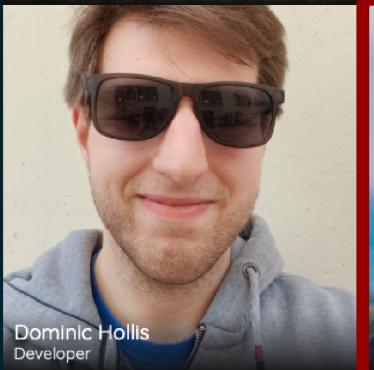
Duarte Galvão (IT-CA-CTE)

IT-CA Group Meeting (December 2024)

Team



Team





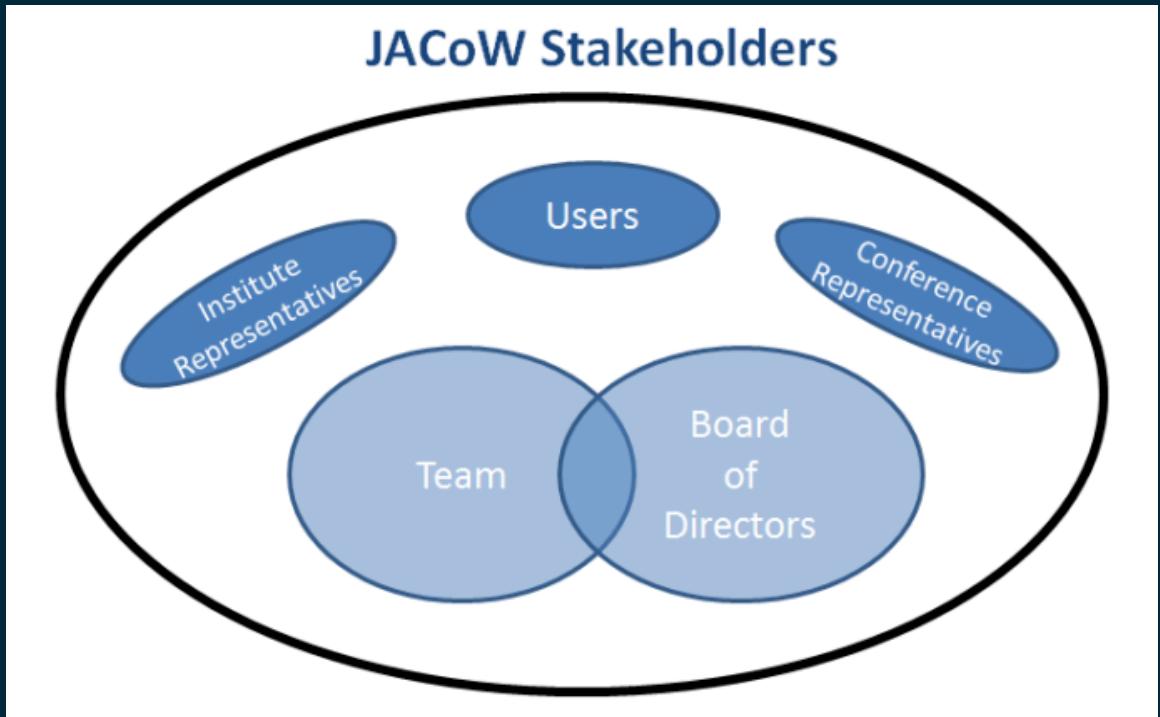
What is a "JACoW"?

[Home](#)[Proceedings](#)[Authors](#)[Organizers / Editors](#)[JACoW Team](#)[About](#)[Contacts](#)

Joint Accelerator Conferences Website

The Joint Accelerator Conferences Website (JACoW) is an international collaboration that publishes the proceedings of accelerator conferences held around the world. All conferences agree to the [policies and requirements for publication](#). Originally created for the publication of the proceedings of the Asian, European, and North American particle accelerator conferences (which in 2010 became the International Particle Accelerator Conference series, or IPAC), today the site hosts the [proceedings](#) of the following JACoW collaboration conferences:

ABDW	DIPAC	HIAT	LINAC	RuPAC
APAC	EBIST	IBIC	MEDSI	SAP
BIW	ECRIS	ICALEPCS	NAPAC	SRF
COOL	EPAC	ICAP	PAC	
Cyclotrons	FEL	IPAC	PCaPAC	



What is JACoW?

- JACoW is NOT a legal entity
- Members from research institutions from all over the world
- Oversees and provides services for publication of conference proceedings

What is JACoW? (Institutions)

Americas

- BNL (Upton, NY, US)
- Cornell University (CLASSE) (Ithaca, NY, US)
- FRIB (East Lansing, MI, US)

- JLAB (Newport News, VA, US)
- LANL (Los Alamos, NM, US)
- LBNL (Berkeley, CA, US)
- LNLS (Campinas, BR)

- ORNL (Oak Ridge, TN, US)
- SLAC (Menlo Park, CA, US)
- TRIUMF (Vancouver, BC, CA)

Asia-Pacific

- ANSTO (Sidney, AU)
- BARC (Mumbai, IN)
- CIAE (Beijing, CN)
- HU/AdSM (Higashi-Hiroshima, JP)
- IBS (Daejeon, KR)
- IHEP (Beijing, CN)
- IMP (Lanzhou, CN)

- JAEA/J-PARC (Tokai-mura, JP)
- KAERI (Daejeon, KR)
- KBSI (Busan, KR)
- KEK (Ibaraki, JP)
- KIRAMS/KHIMA (Seoul, KR)
- NIRS (Chiba, JP)
- NSRRC (Hsinchu, TW)

- PKU (Beijing, CN)
- RIKEN SPring-8 Center (Hyogo, JP)
- RRCAT (Indore, IN)
- SLRI (Nakhon Ratchasima, TH)
- SINAP (Shanghai, CN)
- TUB (Beijing, CN)
- VECC (Kolkata, IN)

Europe, Middle East, Africa

- CELLS-ALBA Synchrotron (Barcelona, ES)
- CERN (**G**eneva, CH)
- CEA/DSM/IRFU (Orsay, FR)
- DESY (Hamburg, DE)
- DLS (Oxford, GB)
- Elettra-Sincrotrone Trieste (Trieste, IT)
- ESRF (Grenoble, FR)
- ESS (Lund, SE)

- GSI (Darmstadt, DE)
- HZB (Berlin, DE)
- HZDR (Dresden, DE)
- IAP/RAS (Nizhny Novgorod, RU)
- IFIC (Valencia, ES)
- INFN/LNF (Frascati, IT)
- ILSF (Tehran, IR)
- KIT (Karlsruhe, DE)

- KACST (Riyadh, SA)
- MAX-lab (Lund, SE)
- PSI (Villigen, CH)
- STFC/DL/ASTeC (Daresbury, GB)
- STFC/RAL/ASTeC (Didcot, GB)
- The University of Liverpool (Liverpool, GB)
- URLS (Rome, IT)

What is JACoW? (People)

Role	Person
Chair	Adriana Rossi, CERN / 2024-2027
Deputy Chair	Caitlin Hoffman, BNL / 2023-2026
Coordinator	Jana Thomson, TRIUMF / 2024-2027
Directors	Thakonwat Chanwattana, SLRI / 2022-2025 Johan Olander, ESS / 2022-2025 Volker Schaa, GSI / 2022-2025
Regional Support Manager for Asia-Pacific	Takashi Kosuge, KEK (SPMS)
Regional Support Manager for EMEA	Ronny Billen, CERN (SPMS) Jan Chrin, PSI (fileserver)
JACoW-Indico Manager	Ivan Andrian, Elettra Sincrotrone Trieste
Repository Manager	Magdalena Montes-Loera, SLAC Volker RW Schaa, GSI

Role	Name, Affiliation and Dates
JACoW.org Webmaster	Stefano Deiuri, Elettra Sincrotrone Trieste
JACoW.org Content Manager	Sumner Brown Gibbs, ORNL
Proceedings Maintenance	Europe: Ronny Billen, CERN Asia: Kazuro Furukawa, KEK
Indico Support and Development	Adrian Mönnich, CERN Duarte Galvão, CERN Michel Succar Medina, CERN
Co-Opted Team Members	Evelyne Akers, Jefferson Lab Lin Bian, IHEP Beijing David Button, ANSTO Zhichu (Ross) Chen, SARI Stefano Deiuri, Elettra Sincrotrone Trieste Michaela Marx, DESY Meghan McAteer, HZB Vincent Mitts, CAMD/LSU Raphael Mueller, GSI Josh Peters, ANSTO Alumnus Christine Petit-Jean-Genaz, CERN Contributing Retiree John Poole, JP Scientific/CERN Akihiro Shirakawa, KEK Heping Yan, SINAP



Duarte Galvão - IT-CA-CTE (CERN)

What is JACoW? (Conferences)

- **IPAC** from 2010 (formerly PAC, EPAC, APAC)
- **NA-PAC** from 2011 (formerly PAC)
- **IBIC** from 2012 (European DIPAC and North-American BIW)
- **COOL, CYCLOTRONS, ECRIS, EIC, FEL, HIAT, ICAP, ICALEPCS, ICFA ABDW, LINAC, MEDSI, PCaPAC, RUPAC, SAP, SRF**

2000s

SPMS

- "Scientific Programme Management System"
- Developed by FNAL for JACoW in the early 2000s
- Allowed the handling of users, affiliations, mailing lists, editing conference proceedings, etc.

The screenshot shows a web browser window with the title "JACoW Central Repository". The URL in the address bar is "oraweb.cern.ch/pls/jacow/profile.html". The page content is titled "JACoW Central Repository User Profiles". It includes a "What is the JACoW Repository?" section, a login form with fields for "Username" and "Password", and a "Login" button. A note states: "Note: This site uses SSL to encrypt your username and password before transmission." Below the login form is a "Forgotten Password" link and a note: "You must enter your username name to retrieve your password." There is also a question "Are you a new user?". The page lists "Browser Requirements" with three items: "Netscape 6 (or higher) or MS Internet Explorer 4 (or higher)", "Session Cookies", and "JavaScript". At the bottom, there is contact information: "Please contact the [JACoW Central Repository Database Administrator](#) with questions, problems or suggestions." and "SPMS Author: Matthew Arena — Fermi National Accelerator Laboratory". The page footer includes the date "16-DEC-24 10:38 (UTC)" and links for "JACoW SPMS Version 11.1.13" and "JACoW Legal and Privacy Statements".

[Add Another Affiliation](#) [Add A Private Address](#)**User Affiliation**[Edit Affiliation](#)

European Organization for Nuclear Research (CERN) Email Address duarte.galvao@cern.ch
 Information Technology Department (IT)
 Esplanade des Particules 1
 CH - 1211 Geneva
 Mail Stop
 PO Box
 Telephone

Note: Your profile must always contain at least one affiliation. You cannot delete the last affiliation. Create a new affiliation first, then delete the unwanted one.

User Information	Citizenship Information
Last (Family) Name Galvão First (Given) Name Duarte Middle Name Alexandre Initials D. A. Gender Male	Country Time Zone GMT Date Format dd-MON-yy hh24:mi 16-DEC-24 10:43 (GMT)
Membership Information	Mailing Lists
Member Affiliation No APS DPB No European Physical Society No IEEE No IUPAP No Institute of Physics No National Physical Society No TWAS	List Conference No Beam Cooling No International Conference on Cyclotrons and their Applications No International Symposium on Electron Beam Ion Sources and Traps No Electron Cyclotron Resonance Ion Source No International Workshop on Accelerator Science and Technology for Electron-Ion Collider No ICFA ABDW Workshop on Energy Recovery Linacs No International Free-Electron Laser Conference No ICFA ABDW Workshop on Future Light Sources No ICFA ABDW Workshop on Hadron Beams No Heavy-Ion Accelerator Technology No International Beam Instrumentation Conference No International Conference on Accelerator and Large Experimental Physics Control Systems No International Computational Accelerator Physics Conference No Advanced Beam Dynamics Workshops No International Particle Accelerator Conference No Linear Accelerator Conference No Mechanical Engineering Design of Synchrotron Radiation Equipment and Instrumentation No ICFA ABDW Workshop on Nano Beams No North American Particle Accelerator Conference No Personal Computers and Particle Accelerators Controls No Russian Particle Accelerator Conference No Symposium on Accelerator Physics No Superconducting RF Yes JACoW Team Meeting No Test Mailing List No ICFA ABDW Workshop on eeFact

SPMS (the downfall)

- Became unmaintainable by the early 2010s
- Constant security issues
- Currently hosted at CERN (which is incompatible with the previous point)

2013

A Unique Conference Management Tool for CERN and JACoW

This document explains the reasons why CERN and JACoW¹ should converge towards a unique conference management software tool, describes a path for this convergence and the resources needed to bridge this gap and reach a new mutually beneficial state of collaboration.

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Current situation

For historical reasons, CERN and JACoW use their own internally-developed conference management software packages. They were both created in the early 2000s, and grew in parallel. The SPMS² for JACoW is used by all major JACoW conferences, and is developed by Matt Arena from FNAL. Indico³ is used at CERN (hosting ~330,000 events) and in 160+ institutes

Executive Summary: The convergence of the CERN Indico software and the JACoW SPMS is of strategic importance for both parties. It could be reached through a 1-person 3.5 years project in 10 work packages. The effort could be reasonably shared between stakeholders and beneficiaries, especially the CERN accelerators and research sectors.

¹ JACoW web site - <http://www.jacow.org/>

² SPMS - <http://www.jacow.org/index.php?n=Tools.SPMS>

³ Indico CERN server: <https://indico.cern.ch/> Indico distribution web site: <https://indico.github.io/>

A collaboration is born

- First participation of Indico members in JACoW Team Meeting in December 2013
- First draft for the Indico-JACoW project plan by Thomas Baron in December 2015
- In hindsight: vastly underestimates the work needed

Development resources

The total resources needed for the implementation of these work packages amount to a total of **35.1 months of work**. A CERN employee working for **three and a half years** could theoretically do the job. A **CERN Fellow** would be the appropriate level of recruitment for this project.

First kick-off

- A 132-page specification was drafted in April 2016
- Very detailed action items
- Estimated 4 years worth of work in total

This document aims at providing an in-depth analysis of the SPMS features with regards to their Indico counterparts, identifying the features which are already handled by Indico, and those which would need to be added to Indico. It will also provide a porting path and a reliable estimate of the needed resources for the porting.

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But, there was a problem...

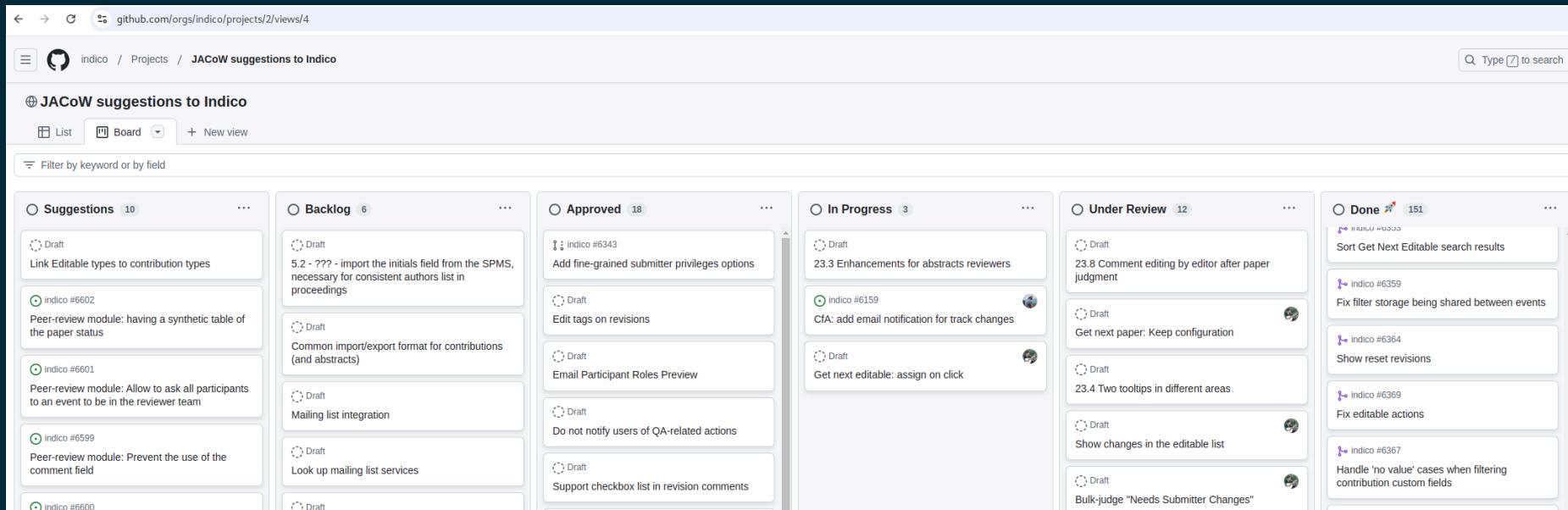
Roles

- Project Manager: Pedro Ferreira
- Development team: PJAS + entire CERN Indico team
- JACoW representative(s): ?



Working together

- In 2019, after it was first tested by JACoW members, it was deemed unfit to run any conference
- In 2021, Ivan Andrian (Elettra Sincrotrone Trieste) was designated as the JACoW-Indico Manager
- Since then, we've regular meetings to keep up with the project's status
- Started using a Kanban board



Working together

- In August 2022 JACoW ran its first large conference (fully) on Indico

The screenshot shows the FEL2022 conference page on Indico. At the top, it says "FEL2022" in large red letters, followed by the dates "Aug 22–26, 2022" and location "Trieste Convention Centre, Europe/Zurich timezone". A sidebar on the left has links for Overview, Scientific Program, Call for Abstracts, Timetable, Contribution List, Author List, Book of Abstracts, Mobile App, and Registration. Another sidebar for the Local Organiser Committee lists email addresses for info@fel2022.org, program@fel2022.org, and registration@fel2022.org. The main content area includes a summary of the conference, details about the organizing center, information about the tour, and links to the official website and contact information. It also lists the start and end times, location, and contact persons.

FEL2022 Trieste, Italy, August 22–26

On behalf of the International Executive Committee of the FEL Conference series, we are pleased to announce the 40th International Free Electron Laser Conference (FEL2022), to be held at the Trieste Convention Center (TCC) in Trieste, Italy, from August 22th to August 26th, 2022.

FEL 2022 will focus on recent advances in free electron laser theory and experiments, electron beam, photon beam, and undulator technologies, and applications of free electron lasers.

This edition is organised by Elettra Sincrotrone Trieste, an international, multidisciplinary research centre specialised in the generation of synchrotron and free-electron laser radiation together with their applications in material and life sciences.

The conference programme will include an optional tour of FERMI and the Elettra Storage ring.

Visit the official website at <https://www.fel2022.org> for further information.

Starts Aug 22, 2022, 8:45 AM
Ends Aug 26, 2022, 1:00 PM
Europe/Zurich

Luca Giannessi **Michele Svandrik**

Trieste Convention Centre
Auditorium Generali
viale Miramare, 24/2
Trieste - Italy

final_proceedings
Conference photos
FEL2022-0-logo-header.jpg

- Since 2023, there have been no more conferences run on SPMS

Working together

- In the past couple of years, we've had a much closer collaboration



JTM'23, Hsinchu, Taiwan



IPAC'24, Nashville, TN, USA

2024

Get next paper

<input type="radio"/>	20	new clean abstract
<input type="radio"/>	22	but this one will work
<input type="radio"/>	30	brand new abstract that must be QAd
<input type="radio"/>	46	aaaaaa
<input checked="" type="radio"/>	47	yellow to green by editor

Cancel **Assign to myself**

FEL2022

A Brilliant Submission #51 BRILLI

Accepted John Author submitted for the contribution [A Brilliant Submission](#)
George Editor is the assigned editor (unassign)

BibTeX file (only for LaTeX papers)	PDF	Source Files
No files uploaded	BRILL1.pdf	BRILL1.tex

Supporting files for papers
[BRILL1_f1.png](#)

QA01: QA Approved **TC00: General Problems related to formatting** **Download ZIP**

- TC01: Incorrect Title, Authors, Affiliation formatting (size, full UPPER/lowercase, not in required lowercase [e.g. MHZ], city/country missing)
- TC06: Reference or References formatting incorrect (missing, multiply defined, wrong order, indentation, hyperlink, inconsistent, wrong, incomplete)

J #1 · John Author has submitted files · 17 August 2022 14:25 **Show details**

J #2 · Revision has been replaced · 17 August 2022 14:25 **Hide**

BibTeX file (only for LaTeX papers)	PDF	Source Files
No files uploaded	BRILL1.pdf	BRILL1.tex

Supporting files for papers
[BRILL1_f1.png](#)

TC14: Reference formating: missing info added, DOI/URL/site name added or corrected **Download ZIP**

G Submitter has been asked to make some changes · 18 August 2022 **Show details**
References to be formatted with JACoWs standard

J #3 · Submitter has been asked to make some changes · 18 August 2022 11:28 **Show details**

J #4 · Submitter has been asked to make some changes · 18 August 2022 12:20 **Show details**

G #5 · George Editor (editor) has made some changes to the paper · 22 August 2022 07:44 **Show details**

BibTeX file (only for [BibTeX file \(only for\)](#) PDF [PDF](#) Source Files [Source Files](#)

Assign **Download all files** **Export as JSON** **Filter** **Enter #id or search string**

REV.	ST
1	G Editor Adrian Mönnich Duarte Galvão
1	J Program code 123ABC
1	J Status Accepted Not submitted Ready for review

Clear all filters

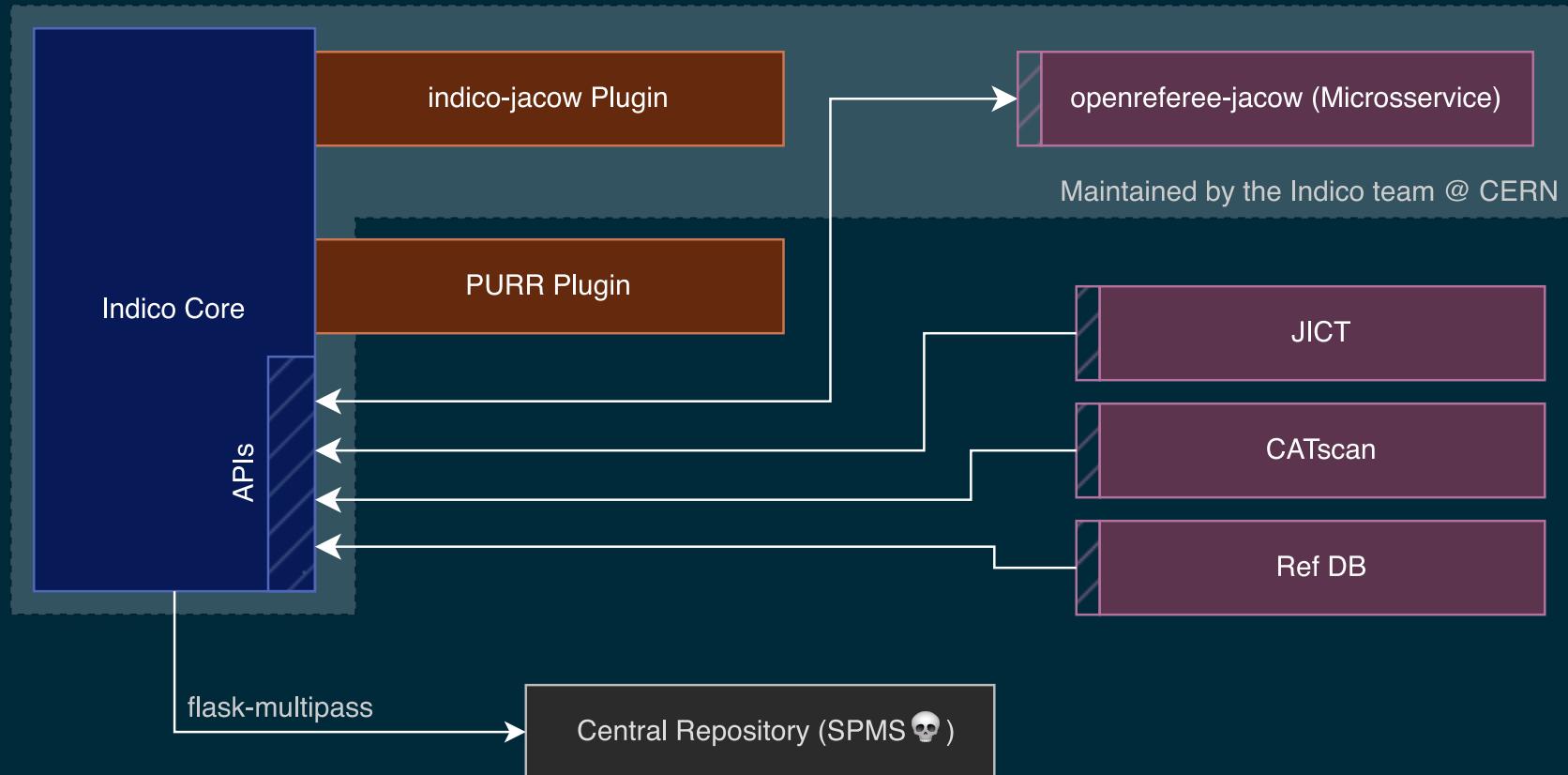
+ Editor **+ Keywords** **+ Program code** **+ Status**

Adrian Mönnich
Duarte Galvão
Pedro Lourenco

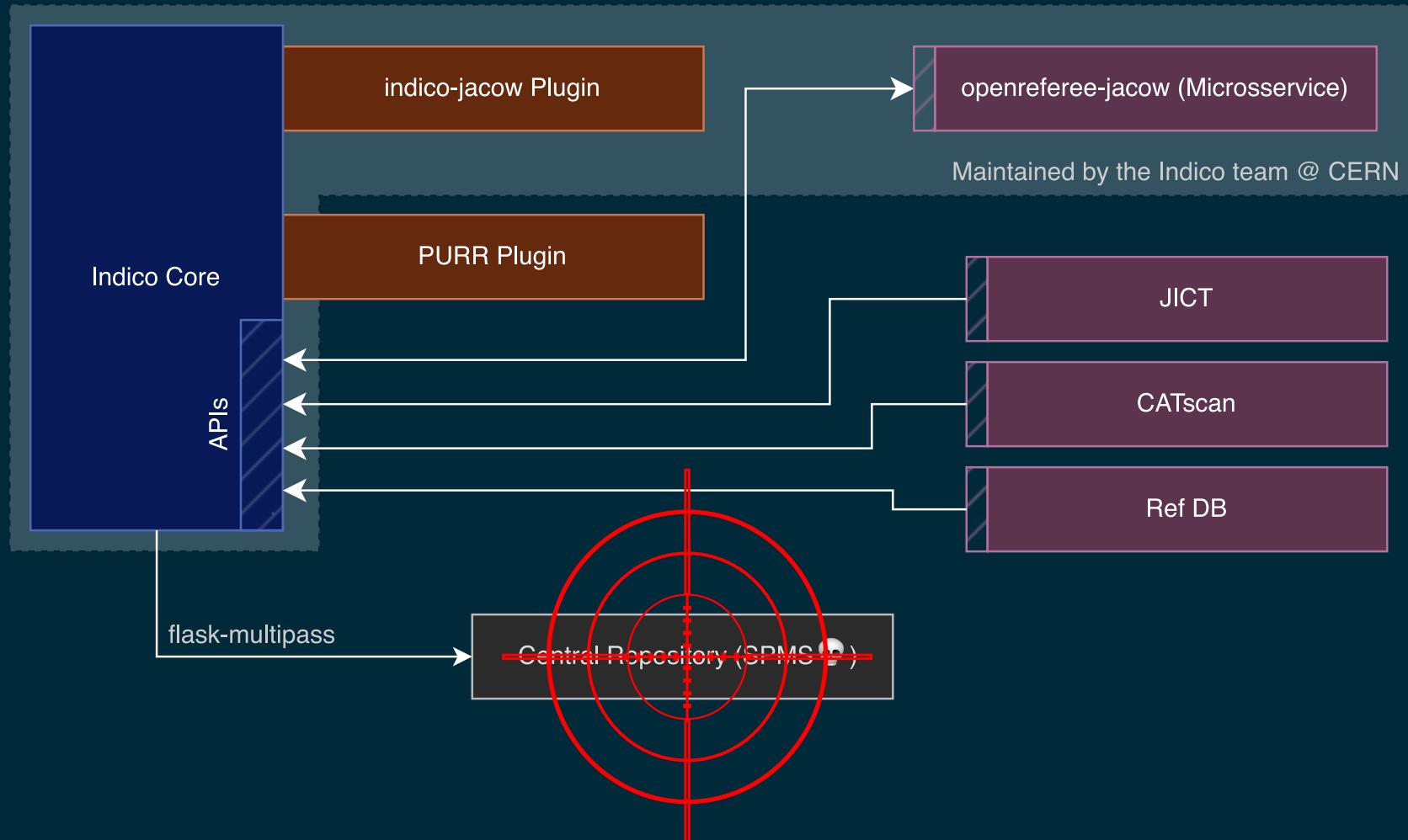
Our approach to JACoW requests

- Useful for the entire community
 - Indico Core
- Mostly for the JACoW community, but still quite general
 - Indico Core, as a setting
- Specific to JACoW use cases
 - highly linked to Indico
 - JACoW Plugin or Microservice
 - loosely related to Indico
 - JACoW's problem ;)

What is JACoW? (our POV)



What is JACoW? (our POV)



Past year's progress

- We went to IPAC24

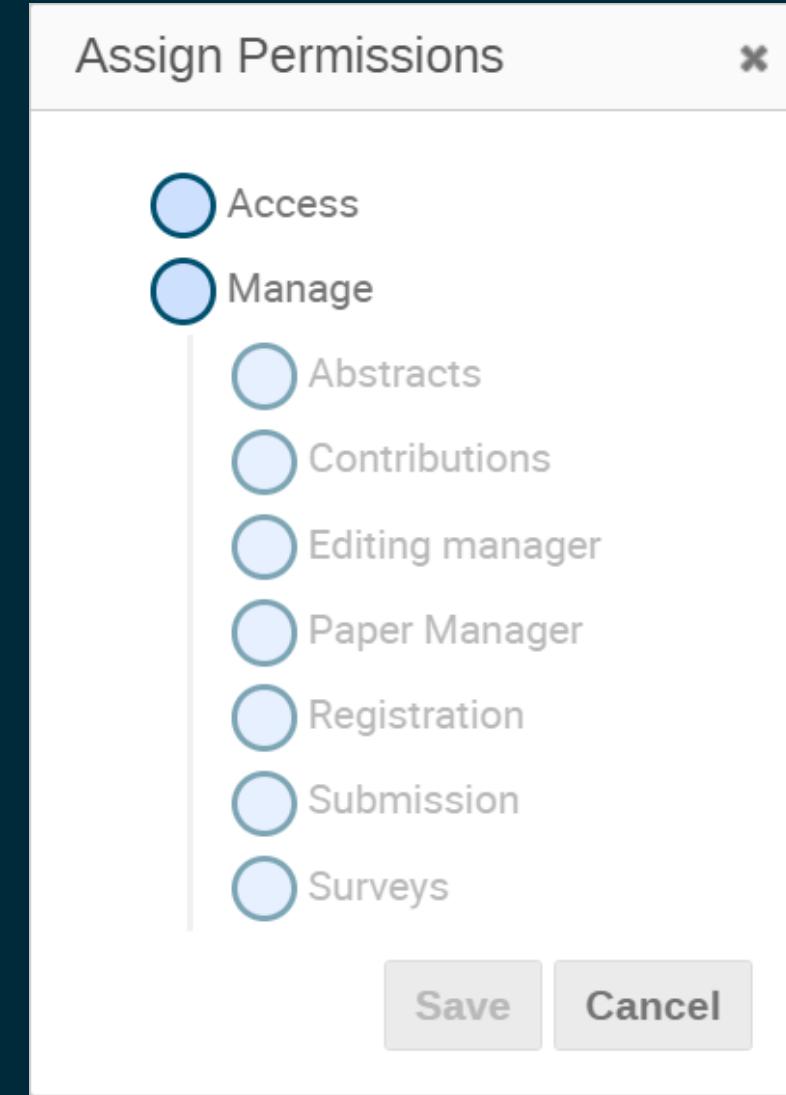


Past year's progress

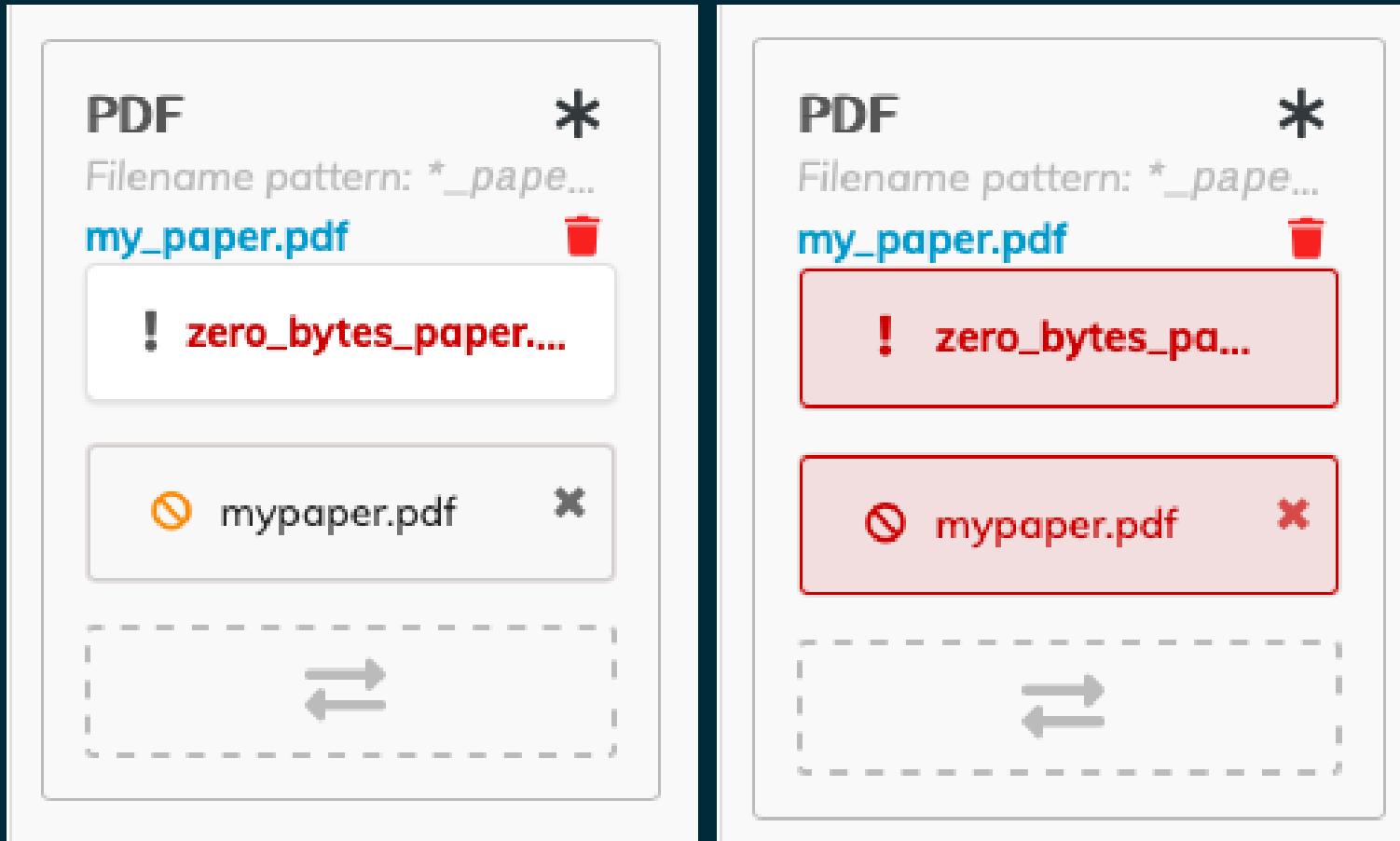
- We went to IPAC24
 - and we took notes!
 - <https://cern.ch/ipac24notes>

Type	Problem	Priority	Solution
New feature	A restricted group of people need to be able to edit the contributions' titles and author lists. However, the only way to allow this is to give them full management access to the whole event, which is confusing for them and can be dangerous.	Low	A new permission type that only allows managing contributions.
New feature	The label for the "internal" setting in comments is "Restrict visibility of this comment to other editors", which caused some confusion regarding whether this means that comments are visible only to other editors or not.	Low	Change the label text to something such as "Restrict visibility of this comment to other editors only".
New feature	On the contribution page, there is a "go to timeline" button that links to its corresponding Editing Timeline. However, this button is only shown the contribution's submitters, meaning that managers and editors need to manually search the editable list to find the corresponding timeline.	Low	Show the button to everyone who has the "can_see_timeline" permission.
New feature	The error messages in the revision files upload form are very discrete - a white box with a red/orange icon. This causes confusion in both submitters and editors, as they often can't tell what's wrong when trying to make a revision.	Medium	Make the error boxes more prominent. Preferably fully red.
Bug	When searching on the "Get Next Editable" dialog, the search results are highlighted but they are not pushed to the top, forcing editors to scroll through hundreds/thousands of editables to find the scattered ones.	Medium	Change display order of editables when applying a search filter.
Bug	When applying a filter on an editable list for papers, it also shows up in the editable list for posters, even though it might not make sense.	Medium	Add an editable type and event id to the session storage key for the filter.
New feature	It is necessary to freeze certain information, namely the contribution's description and title, in order to properly conduct the editing process. However, it is still useful to allow submitters to fix the state.	Medium	Provide more options in the "Submitter Privileges" dialog to enable/disable title, description and persons.
Bug	When doing a Fail QA action (reset_editable) on an editable that has gone from "Needs Submitter Confirmation" to "Approved", only the last revision is undone, and although the editable goes into "ready for review", the actions don't reflect this state, and is instead waiting for submitter confirmation.	High	Ideally no revisions should be undone. An editable should simply be forced on review. We need to check the edits rather than the last revision's state to see which actions can be performed.
New feature	The current way to upload files and approve a revision is to do a "Request Approval" action (marked with a yellow dot) and then, on the confirm button, open a dropdown and select "Confirm and Approve". This creates confusion, since the intended action is to approve and not to request approval. Many editors forget the final "Confirm and Approve" step, and since they cannot judge revisions in the "Needs Submitter Confirmation" (yellow) stage, they have to undo and redo the whole revision, which often means reuploading.	High	Allow uploading files when performing "Approve" judgment, similar to the "Request Changes". This action should create a single "approval" revision containing the files.
New feature	After a revision is made by an editor, it sometimes might be necessary to fix the list of tags. Currently, it is only possible to edit the revision text.	Low	Let the editor edit the tags as well as the revision text.
New feature	There are plans to use an external service to provide mailing lists functionality for JACoW conferences. However, Indico does not support any such integrations.	Low	Display the mailing list preferences on the conference dashboard, with information coming from the provider's API. Additionally, display in the conferences' registration form.

Contributions ACL permission

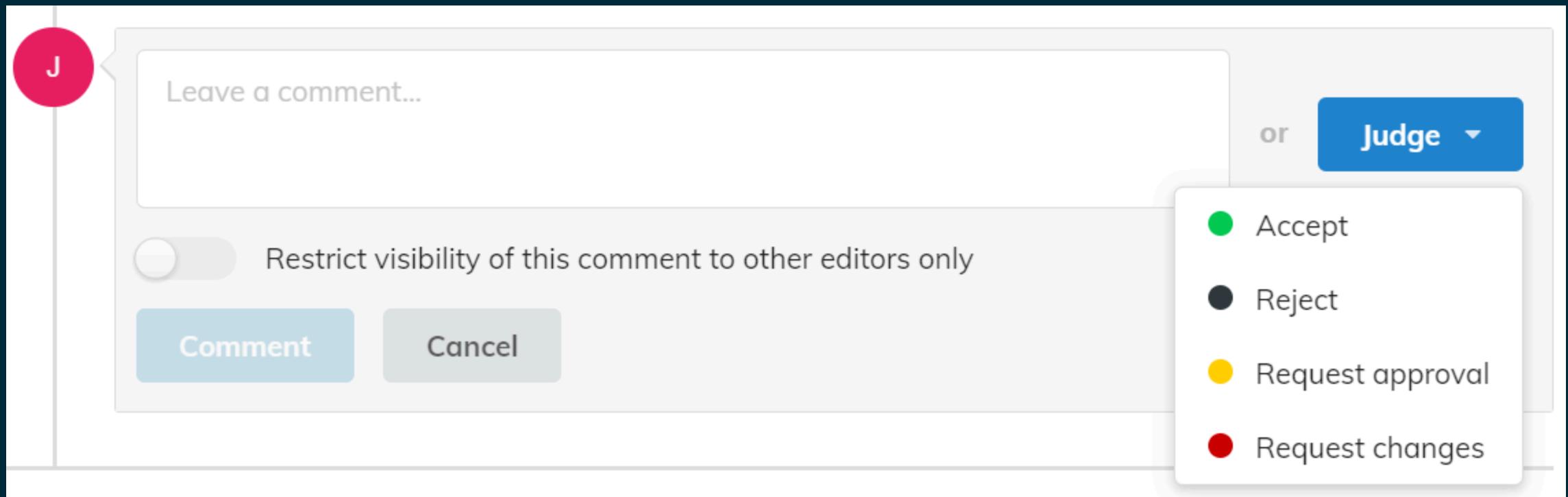


Revision files upload errors



Refactor ReviewForm

- Judge button on editing revisions
- Switching between actions on the editing timeline erases comment



Upload files on "Approve" judgment

Your decision

THIS REVISION NEEDS EDITING

Upload files

PDF *

pdf

[test_pdf.pdf](#)



Tag code or title...

Judge

Accept  

Future of the Indico-JACoW Collaboration

- (Finish) implementing feedback from IPAC24
- Abandon SPMS/Central Repository and use Indico as the sole source of identities
 - Ability to add authors manually after search result returns empty
 - Integration with new mailing list service
 - Implement custom fields for user profiles
 - Add ORCID & ROR integration with user profiles
- UI/UX improvements in Contributions/Abstracts management

getindico.io

 @getindico@fosstodon.org

 @getindico

[m] @#indico:matrix.org / indico@libera.chat



Indigo