What is »JACoW«

The »Joint Accelerator Conferences Website«

Volker RW Schaa
Darmstadt, Germany

KEK, Tsukuba, Japan — 2024

view from 6th floor San Go Kan building 2024-01-18

* Before I start…

… with my talk about JACoW, I want to explain

- who I am,
- and what I'm doing at KEK,
- and also that JACoW has nothing at all to do with cows (and is not pronounced as such).

* Before I start…

… with my talk about JACoW, I want to explain

- who I am,
- and what I'm doing at KEK,
- and also that JACoW has nothing at all to do with cows (and is not pronounced as such).

My name is **Volker RW Schaa**,

I'm from GSI/FAIR, Darmstadt, Germany

And to get an impression here are some (way too many) items from my CV:

*who I am...

1971 Technical University of Darmstadt (TUD)
enrolled for Physics, Electrical Engineering, and Technical Informatics

1974 Student Employee (½ FTE) of GSI

1976 Thesis at TUD/GSI "Heavy Ion Beam Emittance Measurements using Profile Harps"

1975–2020 full employee of GSI/FAIR

1975 Software development for operation of the linear accelerator (UNILAC)

1977–1982 Group Leader »Main Control Room Software« (Operations Department)

1982–2012 Group Leader »Main Control Room Software« (Controls System Department)

1988–2005 Deputy Leader: Controls System Department

2001 »JACoW« started for me (from 2007 as full FTE)

2012 Senior Scientific Advisor for the »Controls System Department«

2017 Retired

2017–2020 employed as »Senior Scientific Advisor for Open Access Publication«
and »JACoW«

2021–2024 working for MSU/USA, LNLS/Brasil, KEK/Japan, et al.

>2024-05 GSI/FAIR employee (¼ FTE)

*what I do at KEK…

Kazuro Furukawa — a constant supporter of JACoW —
wanted some old accelerator conference proceedings
to be scanned and re-published with all the features of
“modern” technology, such as DOIs, bibliographic records,
entries into InspireHEP, and searchable by e.g. GoogleScholar, etc.

He asked me and I happily accepted the
invitation for 2022 and 2023.

This was done first (after 33 years) for
»ICALEPCS 1991« which was organized by
KEK in Tsukuba and took place in this building.

ICALEPCS 1987, 1995, and 1997 will follow.

Proceedings of the International Conference on Accelerator and Large Experimental Physics Control Systems

November 11-15, 1991
KEK, Tsukuba, Japan

NATIONAL LABORATORY FOR HIGH ENERGY PHYSICS, KEK

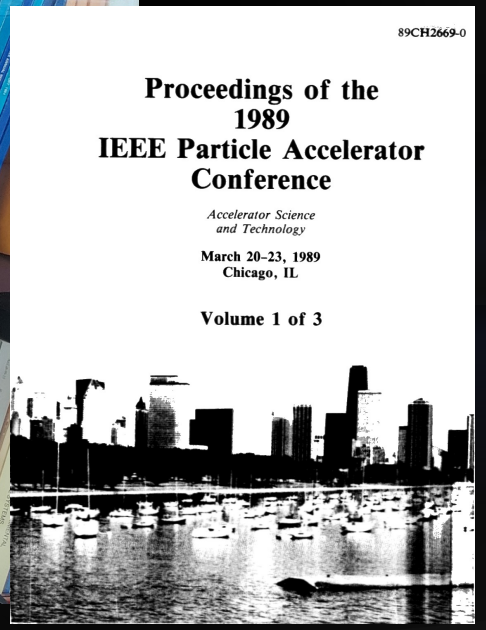
JACoW – Activity for Accelerator Community

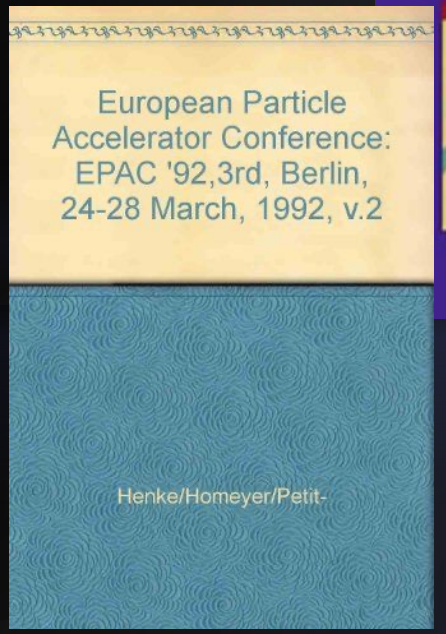
The topics I will try to cover

- A bit of pre-JACoW history (hmm, actually a lot)
- How JACoW came into existence
- JACoW's goals – Main Purpose of JACoW
- JACoW Milestones
- What else is JACoW? Requirements, Charter, Community, …
- Where do we stand today, current activities and future

*pre-JACoW history

I remember from my early days that proceedings were books



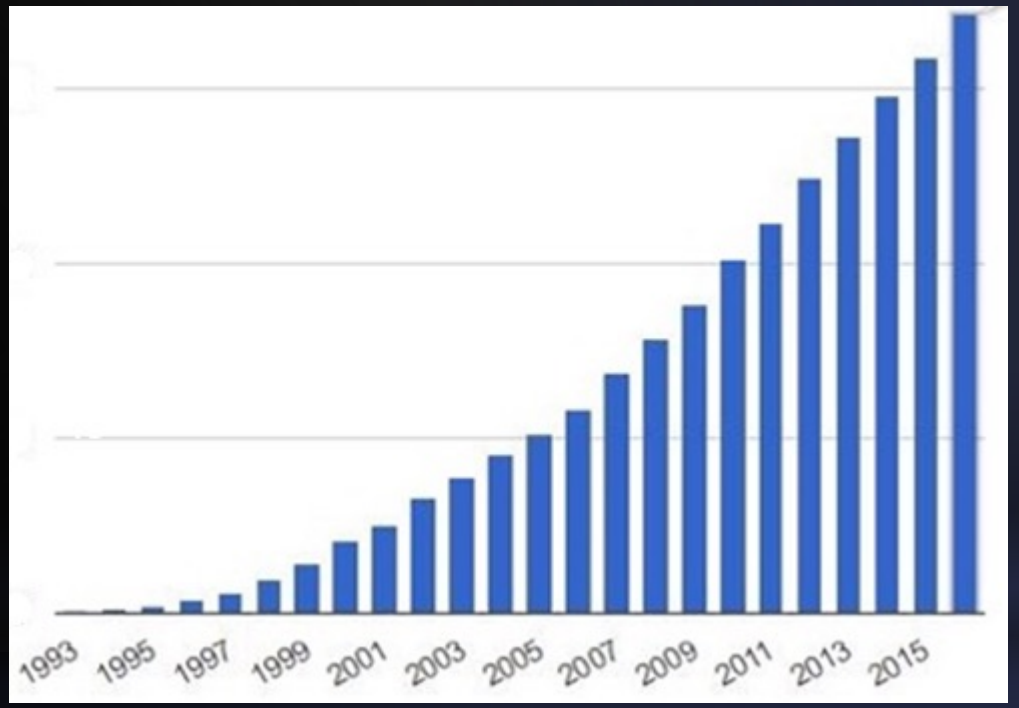


… history

- Conferences once printed all their proceedings
- As delegates you got a printed, shipped copy (when requested/payed). I remember getting my proceedings volume of ICALEPCS'89 delivered 3 weeks before ICALEPCS'91!
- Institutes send people to conferences to get printed proceedings
- Printing and shipping was a big part of the conference budget
- Even in JACoW's early years printed books were requested:
  ★ I produced for LINAC'04 printed proceedings: 2 volumes, full-color, with hard-cover, 914 pages, 48 €

… history

- Conferences once printed all their proceedings
- This became more complicated and expensive with the number of papers (e.g. for PAC'95 more than 3,000 pages were expected)
- Technical development set the path:
  - 1990: World Wide Web (CERN)
  - 1993: PDF and Acroread made free (Adobe)
  - 1994: 100 MHz PC processors (Intel)
  - 1995-2000: Dot Com Boom
    Internet usage/access grows 25×: 15 M to 350 M
- PAC'95 decision: Electronic Publication
- EPAC'96 and PAC'97 joined the editorial team to learn how it might be feasible (see documentation)



… history

* only a short detour: prices for printed proceedings

You can still buy the proceedings of EPAC’96 on Amazon and Ebay

only a short detour: prices for printed proceedings … history

You can still buy the proceedings of EPAC'96 on Amazon and Ebay

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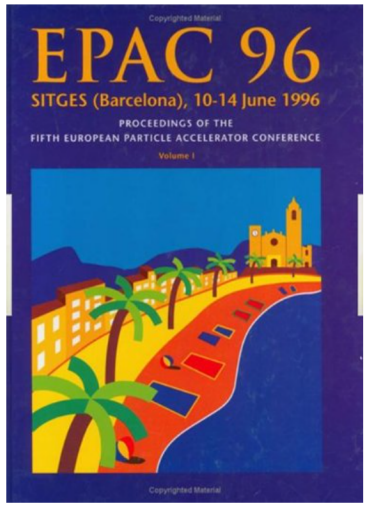

Click image to open expanded view

Read sample

Epac 96: Proceedings of the Fifth European Particle Accelerator Conference, Sitges (Barcelona), 10 to 14 June 1996 - 3 Volume Set 1st Edition

by S. Myers (Editor)

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only a short detour: prices for printed proceedings … history

You can still buy the proceedings of EPAC'96 on Amazon and Ebay

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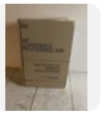
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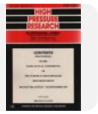
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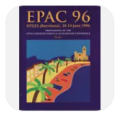
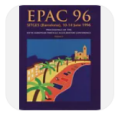


EPAC 96: 第5回欧州粒子加速器会議の議事録。 3 ボイス -

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* … history

Prices for printed proceedings:

* Large portion of the registration fee was spent in the "old days" when all delegates received a printed copy
* Btw. EPAC'96 is still available for US$ 150–450 or ¥ 22,222
* Proceeding copies are now sold through e.g. Curran Associates for libraries (in the past JACoW got a small amount of royalties)
* Other hardcopies US$ 100-300 (or less) for recent IPACs

*... history

Who were the people who wanted to try their hands at publishing proceedings themselves?

John Poole EPAC'96

PAC'99

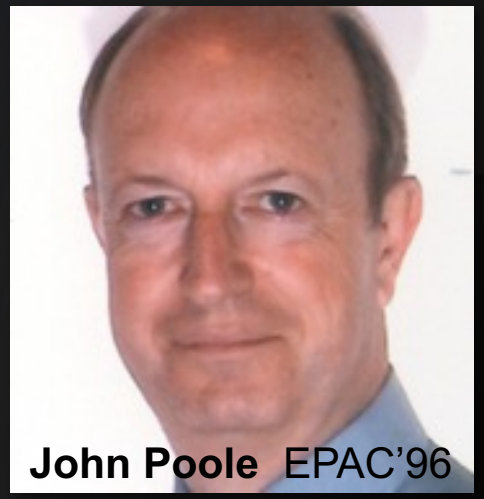
PAC'97

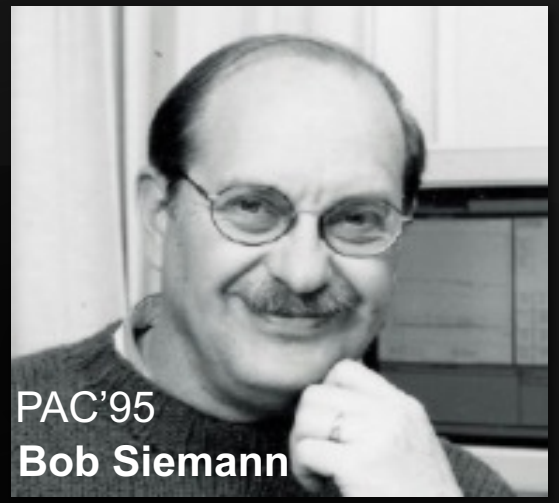
Leif Liljeby
EPAC'98

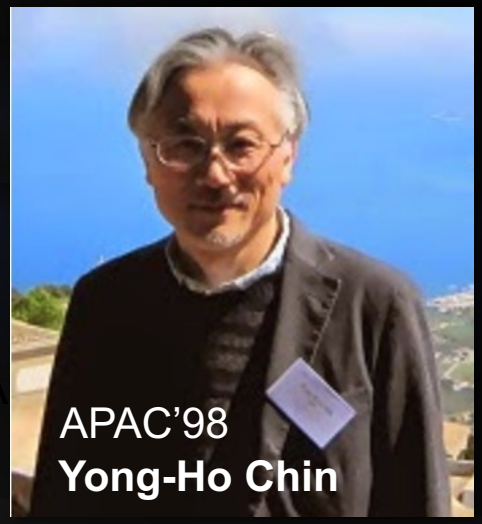
PAC'95

Leif Liljeby
EPAC'98

The people to try their hands at publishing proceedings themselves







The birth of JACoW:

It was Ilan Ben-Zvi of BNL, the PAC'99 Programme Committee Chairman, who suggested that it would be useful for sister conferences in the APAC, EPAC & PAC series to publish their proceedings at the same site.

How JACoW came into existence

The birth of JACoW

came with Ilan Ben-Zvi's idea to publish the electronic proceedings at the same site.

The website for publication was decided to be at CERN and when

- EPAC'96 appeared,
- soon PAC'95 and PAC'97 proceedings were added, followed by
- EPAC'98, APAC'98, and PAC'99,

Finally the JACoW.org was established for the conferences website

JACoW's goals

What are the goals of JACoW?

- Publish high-quality sets of proceedings with access through the custom interface which allows searching the proceedings with boolean searches on keywords, title, authors and in the full text.
- Provide long-term archival storage to ensure longevity and access to publication data.
- Publish conference metadata for the Open Archives Initiative (OAI).
- Provide and maintain a repository of user profiles and affiliation for accelerator conferences.
- Provide support for conference organizers.

* JACoW's goal: … high-quality proceedings

Publish high-quality sets of proceedings from what authors provided in the early days turned out to be quite an undertaking (quotes from PAC'95 and EPAC'96):

- Multitude of operating systems sources and applications (most unknown today), different types of fonts, 7 or 8-Bit ASCII, different character encodings, etc.

Table 1. Document Source Codes

Ami Pro	4
Claris Works	2
FrameMaker	51
Island Write	2
MacWrite Pro	4
Microsoft Word, v. 2	30
Microsoft Word, v. 5 & 6	505
Nisus Write	1
PageMaker	5
Page Stream	1
TeX	382
WordPerfect	54
Unknown	58

* … high-quality proceedings

Problem:

- Multitude of operating systems source
- Problems with Type 3 fonts (LaTeX)

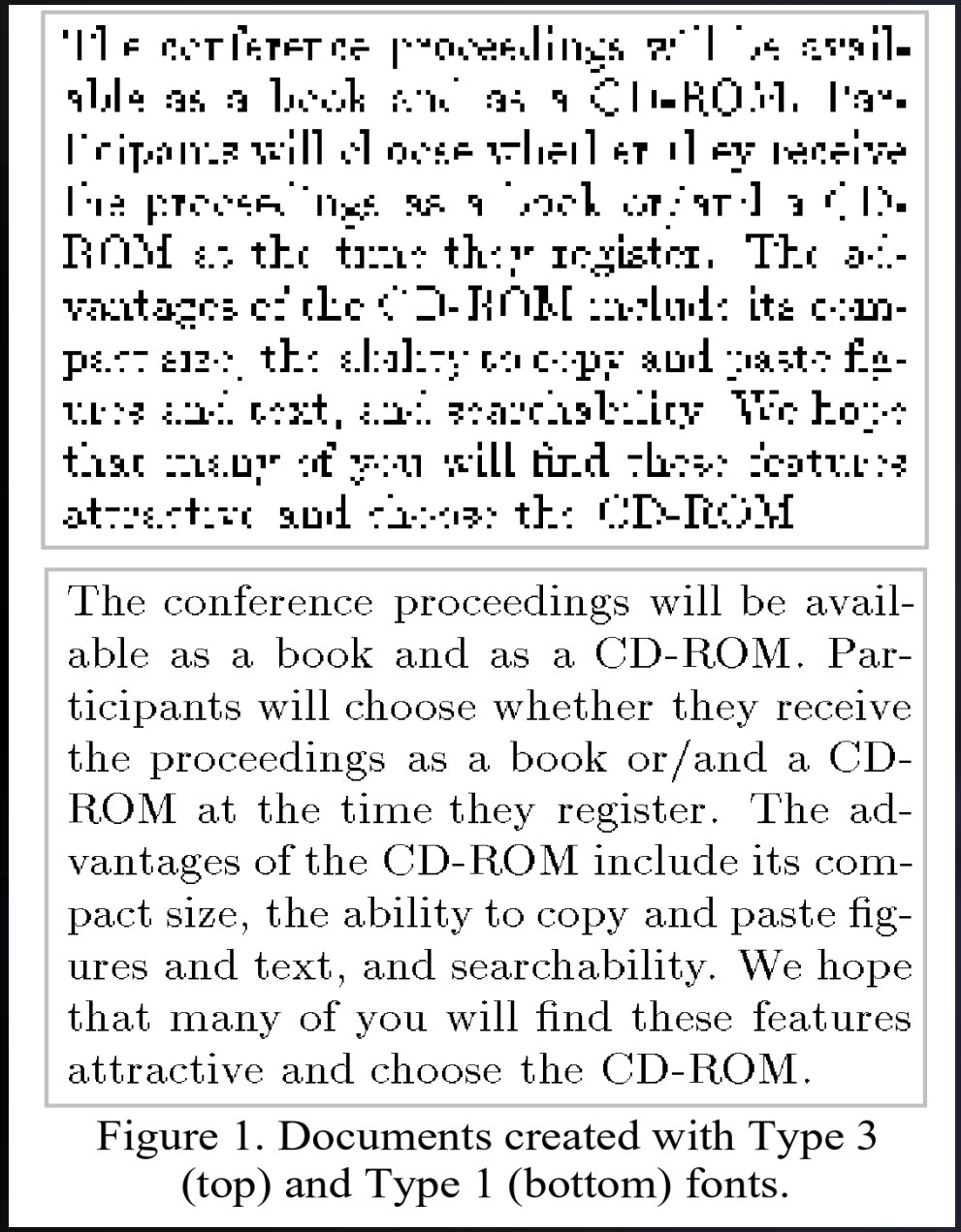


Figure 1. Documents created with Type 3 (top) and Type 1 (bottom) fonts.

* … high-quality proceedings

Problem:

- Requested media types for source and PDF delivery:
  - 1 diskette containing the complete printable paper as PostScript/PDF (could be zipped)
  - 1…n diskettes containing the native format (WORD, TeX, etc.)
  - 1…n diskettes containing the native format (Illustrator, Excel, etc.) source code for the figures and charts.
  - A printed copy of the paper for comparison
  - FTP server in addition if above too restrictive

* … high-quality proceedings

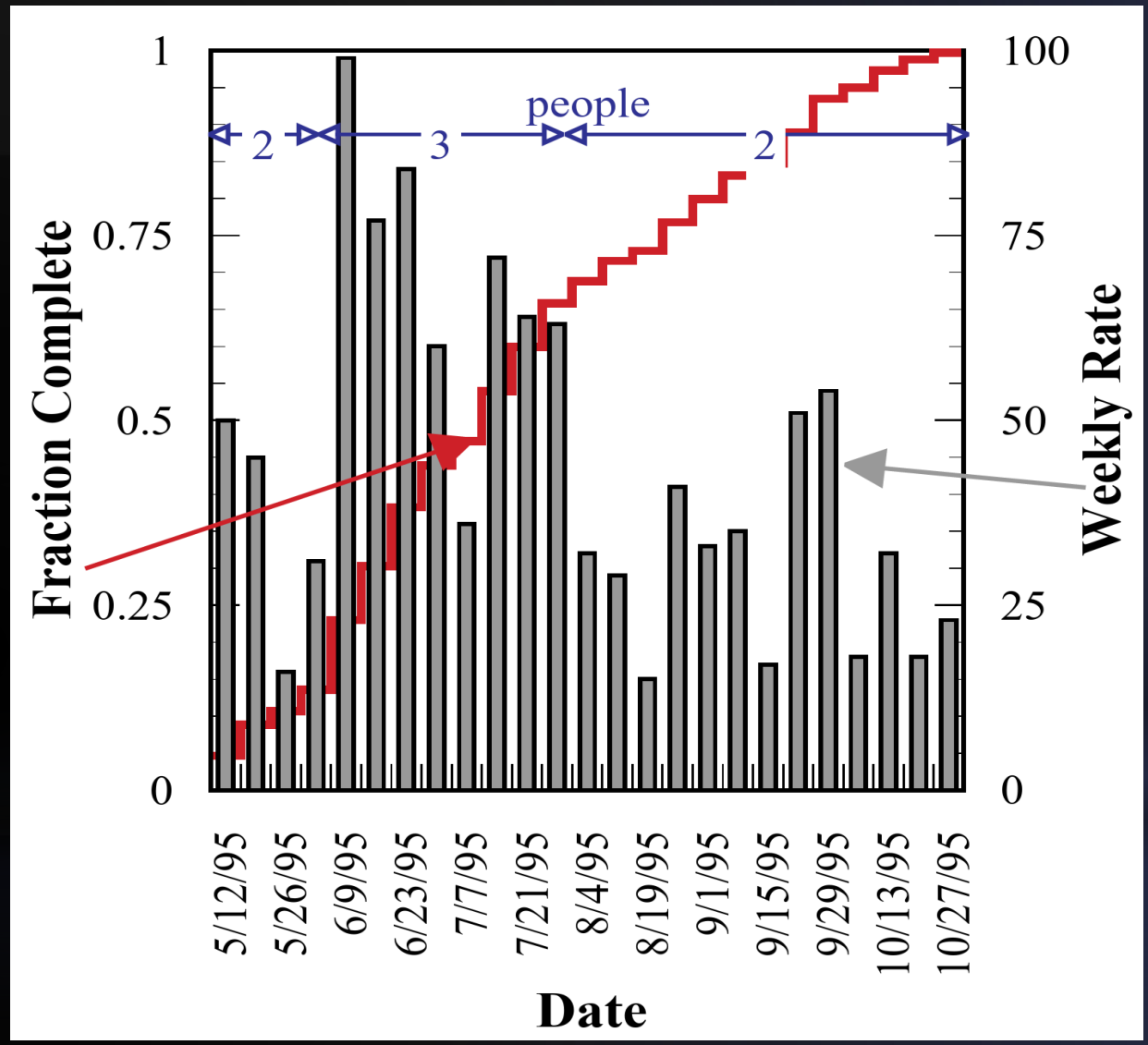
Problem:

- Requested media types for source and PDF delivery:
  - 1 diskette containing the complete printable paper as PostScript/PDF (could be zipped)
  - 1…n diskettes containing the native format (WORD, TeX, etc.)
  - 1…n diskettes containing the native format (Illustrator, Excel, etc.) source code for the figures and charts.
  - A printed copy of the paper for comparision
  - FTP server in addition if above too restrictive
- Some pictures for those who do not remember these times (maximum of a SD/DS floppy 1.4 MB)

* … high-quality proceedings

Problem:

- Multitude of operating systems source
- Problems with Type 1 fonts (LaTeX)
- Amount of work finishing papers: time from 1995-05-08 to 1995-10-27 with the given people (5 days/week, 8 hours/day) gives ~2,600 hours.
- Final publication after 5½ months for 1099 papers totaling 3429 pages
- For EPAC'96 Chris made the suggestion to do the editing during the conference



* … high-quality proceedings

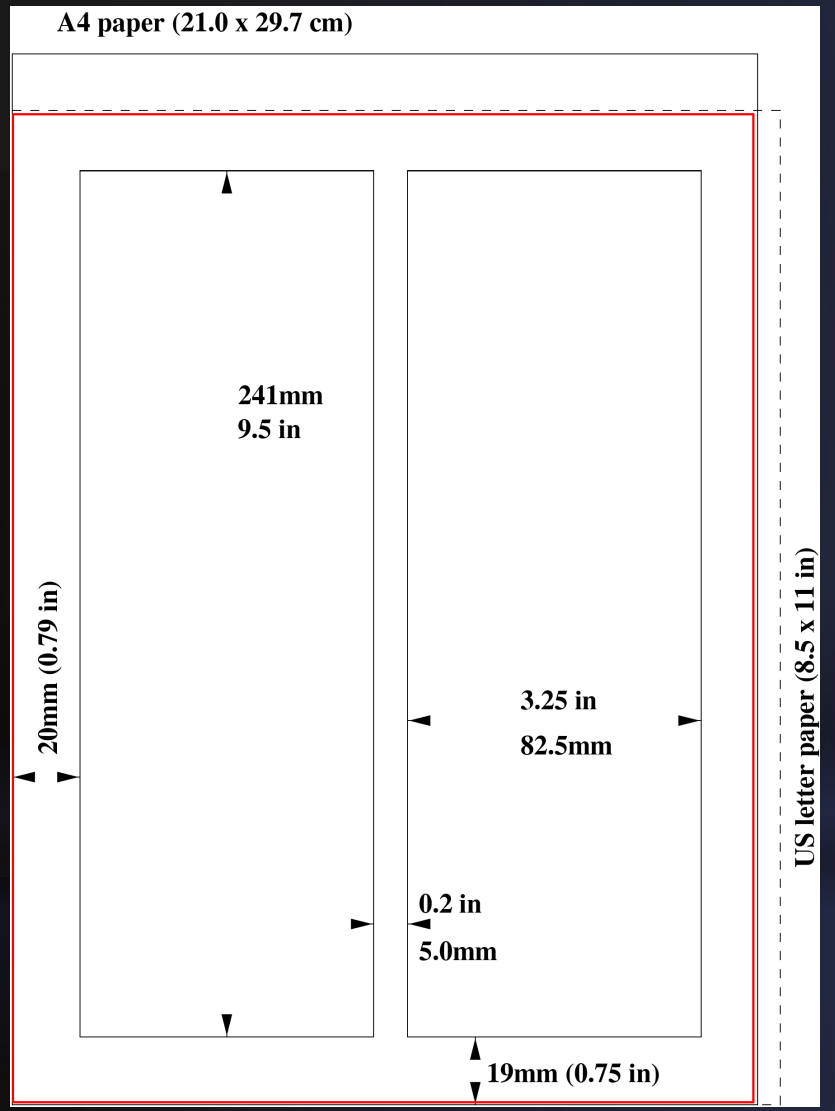
Problem:

- : …
- Final publication for 1099 papers totaling 3429 pages after 5½ months
- For EPAC'96 Chris made the suggestion to process the papers during the conference to be able to share the experience made while editing.
- Therefore at EPAC'96 in Sitges, Barcelona the following people met in the Proceedings Office: Chris Petit-Jean-Genaz, John Poole, a CERN technical student, Leif Liljeby, MSL (editor EPAC'98), Yong Ho Chin, KEK (APAC'98), Martin Comyn, TRIUMF (PAC'99), and a few local people from Barcelona
- This "JACoW model" brought together the people responsible for the electronic publication of the conference proceedings within the different regional series, to work and learn together.
- It has been so successful that since 1996 all conferences have adopted it.

* … high-quality proceedings

Problem: (quotes from PAC'97):

- Working with A4 and Letter sized paper did not cause problems per se, only when it came to printing
- Leif Liljeby of Manne Siegbahn Laboratory (MSL) came up with the idea of creating a JACoW paper size by cropping the PDF file to the minimum dimensions of A4 width and US Letter height.
- Since then JACoW uses this special paper size in its provided templates.



* … high-quality proceedings

Problem:

- Experiencing the amount of different source formats from a multitude of different applications, it was decided to provide templates for the most used ones
- MSWord for Windows and Mac, LaTeX, and OpenOffice from Sun/Oracle/Apache
- These templates came in two versions: A4 and Letter
- So dependent on what you prefer, you will find:

* … high-quality proceedings

Problem:

- Experiencing the amount of different source formats from a multitude of different applications, it was decided to provide templates for the most used ones
- MSWord for Windows and Mac, LaTeX, and OpenOffice from Sun/Oracle/Apache
- These templates came in two versions: A4 and Letter
- So dependent on what you prefer, you will find today just these two:

  (in earlier years we had to maintain 3-4 versions of Word in MS and Mac flavor)

MS Word Templates

A4 Paper Size	US Letter Paper Size	Description
JACoW_W16_A4.dotx	JACoW_W16_Letter.dotx	Word 2016 (*.dotx*)
JACoW_W16_A4_Short.dotx	JACoW_W16_Letter_Short.dotx	Word 2016 (*.dotx*) *Short version*

* … high-quality proceedings

Problem:

- Experiencing the amount of different source formats from a multitude of different applications, it was decided to provide templates for the most used ones
- MSWord for Windows and Mac, LaTeX, and OpenOffice from Sun/Oracle/Apache
- These templates came in two versions: A4 and Letter
- So dependent on what you prefer, you will find:

LaTeX Templates (see experimental versions below)

File	Description
jacow.cls	Class file v2.15 (common A4/US Letter)[see below for BibLaTeX]
JACpic_mc.pdf	Figure 1 (common A4/US Letter)
JACpic2.jpg	Figure 2 (common A4/US Letter)
jacow-collaboration.pdf	Included pdf page (common A4/US Letter)
annexes-A4.tex	Annexes source (A4))
annexes-Letter.tex	Annexes source (US Letter))
JACoW_LaTeX_A4.tex	Document (A4)
JACoW_LaTeX_Letter.tex	Document (US Letter)

* … high-quality proceedings

Problem:

- Experiencing the amount of different source formats from a multitude of different applications, it was decided to provide templates for the most used ones
- MSWord for Windows and Mac, LaTeX, and OpenOffice from Sun/Oracle/Apache
- These templates came in two versions: A4 and Letter
- So dependent on what you prefer, you will find:

OpenDocument (ODF) Templates

File	Description
JACoW_ODF_A4.ott	LibreOffice/OpenOffice v5.0 and later (A4)
JACoW_ODF_US.ott	LibreOffice/OpenOffice v5.0 and later (US Letter)

* … high-quality proceedings

Problem:

- Experiencing the amount of different source formats from a multitude of different applications, it was decided to provide templates for the most used ones
- MSWord for Windows and Mac, LaTeX, and OpenOffice from Sun/Oracle/Apache
- These templates came in two versions: A4 and Letter
- So dependent on what you prefer, you will find.
- In the future there will only be one LaTeX template as LaTeX crops the page size automatically to the JACoW paper size.

* JACoW Milestones

Now I want to highlight some mile stones in the years 2004 to 2023.

Be assured that much more happened in the JACoW community then I'm going to list in the coming slides but I wanted to show important events that are still in my mind as memorable (and are therefore just a personal view).

* JACoW Milestones

- 2004 **Award for JACoW**: Christine Petit-Jean-Genaz and John Poole
- 2004 First use of a production version of the Scientific Programme Management System (**SPMS**)
- 2004 First use official use of JACoW Proceedings Software Package (**JPSP**)
- 2010 **Award for JACoW**: Christine Petit-Jean-Genaz and Volker RW Schaa
- 2012 **ISBN** numbers for JACoW conferences
- 2015 **DOI** registration for all JACoW papers
- 2019 **RefScan**: Reference Search in all of JACoW's proceedings
- 2019 **CatScan**: Word DOCX Validator to examine JACoW papers ahead of submission
- 2020 **ISSN** numbers for all conferences
- 2023 **Scopus** indexes LINAC and IBIC conferences
- 2023 First use of a production version of the new **JACoW-Indico** Conference System

https://vrws.de/EPAC2004-Award-Session.mp4

* JACoW Milestones

2004 Award for JACoW: Christine Petit-Jean-Genaz and John Poole

The following are extracts from the citation the award carried:

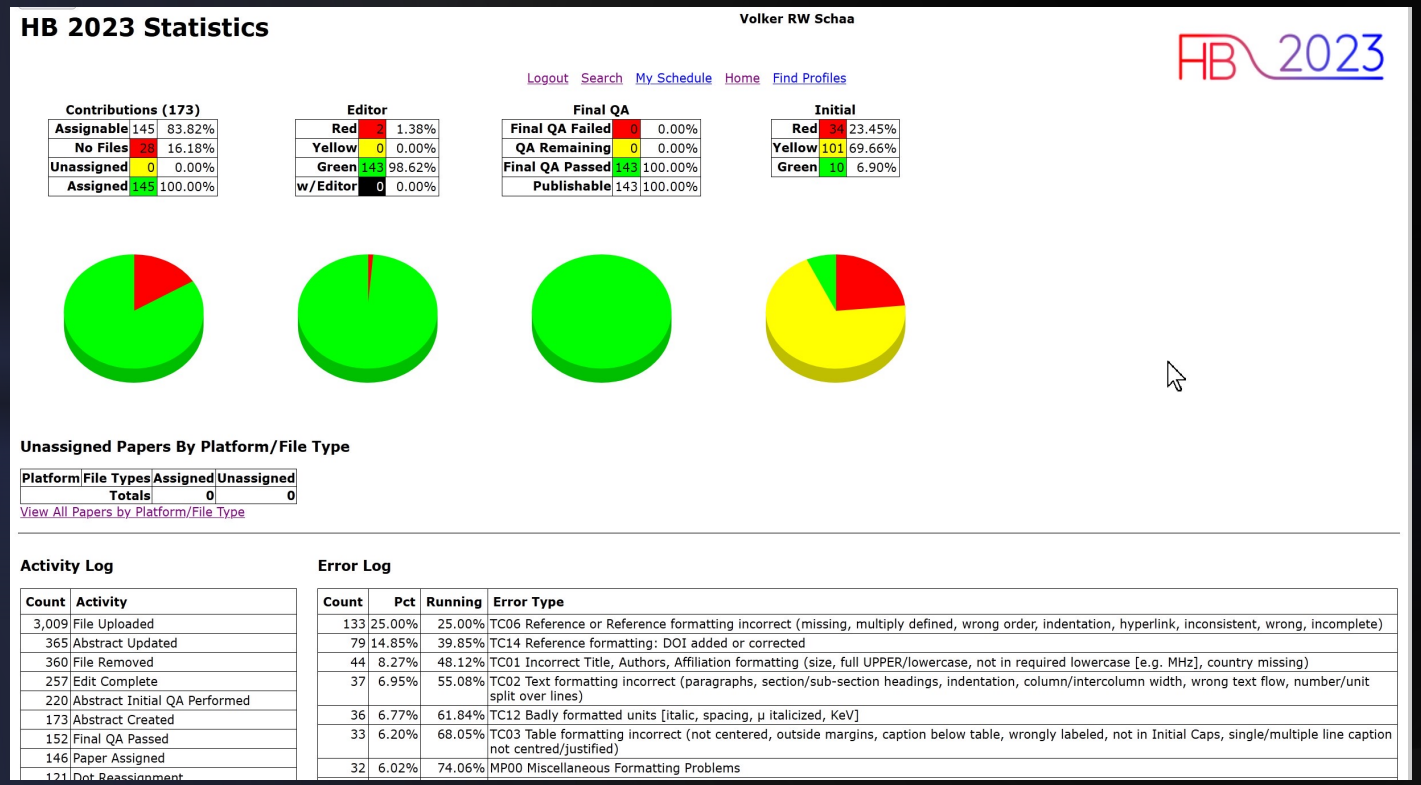
"From tiny acorns mighty oak trees grow. An idea from Ilan Ben-Zvi in 1996, nurtured by others, has finally spread its branches as the JACoW collaboration reaches maturity in 2004."

"While many individuals have played a part, none would begrudge recognition to the two people whose foresight and enthusiasm have served to blend so many varied ideas together: John Poole, the Chairman of JACoW, and Christine Petit-Jean-Genaz, the EPAC Conferences Coordinator."

JACoW Milestones

2004 The Scientific Programme Management System (SPMS)

At EPAC'04 the SPMS developed by Matt Arena is use for the first time for abstract submission, paper upload and in the editorial office for paper editing.
It is now available for all future conferences providing access to the Central Repository containing author profiles and affiliation.



HB 2023 Statistics

Volker RW Schaa

HB 2023

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Contributions (173)		
Assignable	145	83.82%
No Files	28	16.18%
Unassigned	0	0.00%
Assigned	145	100.00%

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Red	2	1.38%
Yellow	0	0.00%
Green	143	98.62%
w/Editor	0	0.00%

Final QA		
Final QA Failed	0	0.00%
QA Remaining	0	0.00%
Final QA Passed	143	100.00%
Publishable	143	100.00%

Initial		
Red	34	23.45%
Yellow	101	69.66%
Green	10	6.90%

Unassigned Papers By Platform/File Type

Platform	File Types	Assigned	Unassigned
Totals		0	0

View All Papers by Platform/File Type

Activity Log

Count	Activity
3,009	File Uploaded
365	Abstract Updated
360	File Removed
257	Edit Complete
220	Abstract Initial QA Performed
173	Abstract Created
152	Final QA Passed
146	Paper Assigned
121	Dot Reassignment

Error Log

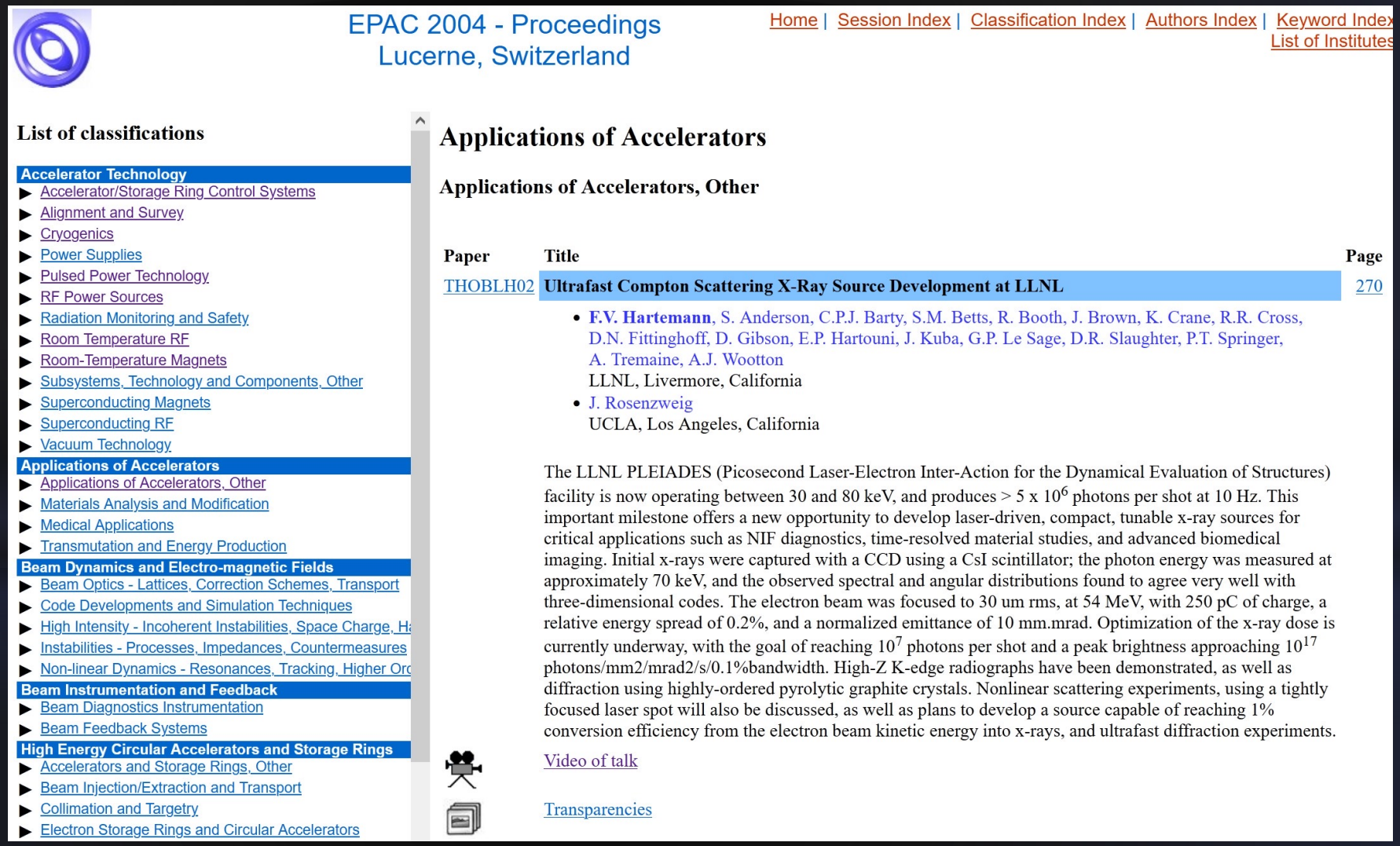
Count	Pct	Running	Error Type
133	25.00%	25.00%	TC06 Reference or Reference formatting incorrect (missing, multiply defined, wrong order, indentation, hyperlink, inconsistent, wrong, incomplete)
79	14.85%	39.85%	TC14 Reference formatting: DOI added or corrected
44	8.27%	48.12%	TC01 Incorrect Title, Authors, Affiliation formatting (size, full UPPER/lowercase, not in required lowercase [e.g. MHz], country missing)
37	6.95%	55.08%	TC02 Text formatting incorrect (paragraphs, section/sub-section headings, indentation, column/intercolumn width, wrong text flow, number/unit split over lines)
36	6.77%	61.84%	TC12 Badly formatted units [italic, spacing, µ italicized, KeV]
33	6.20%	68.05%	TC03 Table formatting incorrect (not centered, outside margins, caption below table, wrongly labeled, not in Initial Caps, single/multiple line caption not centred/justified)
32	6.02%	74.06%	MP00 Miscellaneous Formatting Problems

I could not find a picture from 2004 therefore I present an actual one. The important display for editors is the one to the left showing every-thing about the status.

JACoW Milestones

- 2004 First use official use of JACoW Proceedings Software Package (JPSP)

At EPAC'04 my script package was used for the first time using XML data export from SPMS.



* JACoW Milestones

❖2010 Award for JACoW: Christine Petit-Jean-Genaz and Volker RW Schaa

Christine Petit-Jean-Genaz, CERN, and Volker Schaa (right), GSI, receive the award for services to the accelerator community from Katsunobu Oide, chair of the Organizing Committee.

JACoW's goal of publishing speedily and efficiently was achieved in magnificent style for IPAC '10. With a strong international team, the "pre-press" version of the proceedings was available on-line on the last day of the conference via the Scientific Programme Management System (SPMS), the tool developed by the collaboration for the management of all contributions to the scientific programme. Exactly three weeks later, 1569 papers were published in final form on the JACoW site.

This year, ACFA and the IPAC '10 organizing committee recognized the JACoW collaboration's achievement with an award for services to the accelerator community. On receiving the prize on behalf of the collaboration, Volker Shaa and Christine Petit-Jean-Genaz, chair and deputy-chair of the JACoW collaboration, respectively, underlined that without laboratory support for the JACoW effort, such results would not be possible. The JACoW site is totally accessible and is free of charge for the community. There is however a cost, albeit small, for the laboratories where a few members of staff dedicate a percentage of their time to JACoW, namely, CERN, DESY, Fermilab, GSI and KEK.

JACoW Milestones

2012 ISBN numbers for JACoW conferences

1	"978-3-95450-000-0"	"2225-4633"	#	DIPAC'03
2	"978-3-95450-001-7"	"2226-0366"	#	LINAC'04
3	"978-3-95450-002-4"	"1684-761X"	#	EPAC'04
4	"978-3-95450-003-1"	"2225-4633"	#	DIPAC'01
5	"978-3-95450-004-8"	"2673-7019"	#	PAC'05
6	"978-3-95450-005-5"	"2225-4633"	#	DIPAC'05
7	"978-3-95450-006-2"	"2673-7035"	#	ABDW-FLS'06
8	"978-3-95450-007-9"	"1684-761X"	#	EPAC'06
9	"978-3-95450-008-6"	"2673-5555"	#	ICAP'06
10	"978-3-95450-009-3"	"2226-0366"	#	LINAC'06
11	"978-3-95450-010-9"	"2226-0374"	#	COOL'07
12	"978-3-95450-011-6"	"2225-4633"	#	DIPAC'07
13	"978-3-95450-012-3"	"2226-0358"	#	ICALEPCS'07
14	"978-3-95450-013-0"	"2673-7019"	#	PAC'07
15	"978-3-95450-014-7"	"1684-761X"	#	EPAC'08
16	"978-3-95450-015-4"	"2673-5512"	#	PCaPAC'08
17	"978-3-95450-016-1"	"2673-5474"	#	FEL'08
18	"978-3-95450-017-8"	"2226-0374"	#	COOL'09
19	"978-3-95450-018-5"	"2225-4633"	#	DIPAC'09
20	"978-3-95450-019-2"	"2673-5474"	#	FEL'09
21	"978-3-95450-020-8"	"2226-0358"	#	ICALEPCS'09
22	"978-3-95450-021-5"	"2673-5504"	x	SRF'87
23	"978-3-95450-022-2"	"2673-5504"	#	SRF'09
24	"978-3-95450-023-9"	"2673-5571"	#	ADBW-HB'08

This shows the block of ISBNs provided by the German Registrar.

JACoW got the 1,000 ISBN block

978-3-95450-xxx-x

This block is under own supervision and we decide which conference gets which ISBN number.

In this list the ISSN number is listed too as these go hand-in-hand with the conference series (see ISSN).

* JACoW Milestones

2015 DOI registration for all JACoW papers

Digital object identifier

Full name	Digital object identifier
Acronym	DOI
Organisation	International DOI Foundation
Introduced	2000; 24 years ago
Example	10.1000/182
Website	www.doi.org

After several years of trying to acquire low-cost DOIs for JACoW's papers (2-10 € in 2013), Germany was able to provide free DOIs for research institutes in 2014, but the metadata had to be hosted in Germany. This would have meant doubling some of the data (PDFs + landing page + metadata). In 2015, Switzerland also made it possible for universities and research institutes to register DOIs free of charge. As our data are stored at CERN, this was the start of JACoW's DOI registration.

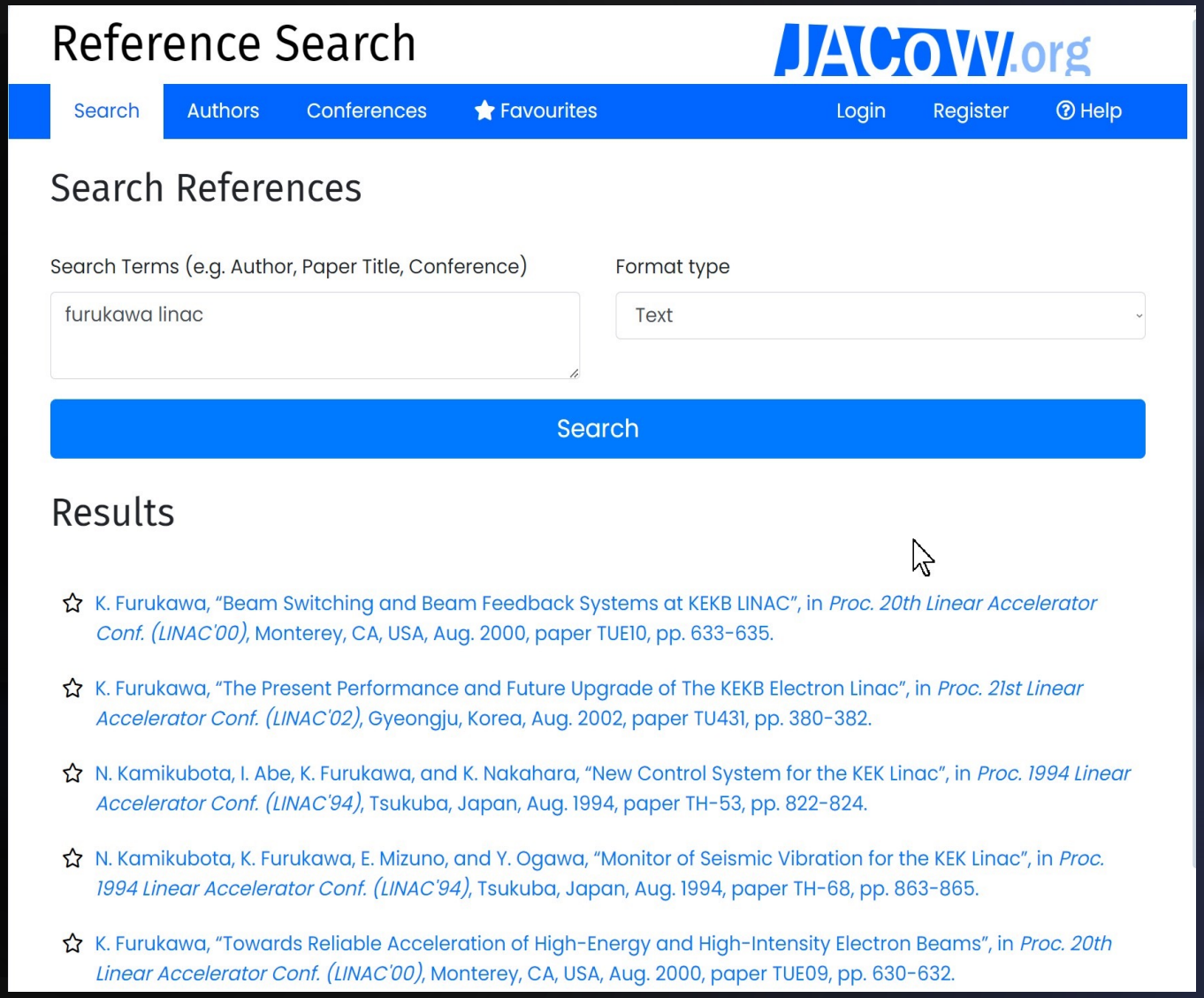
JACoW got the DOI basic URI **10.18429** which is a CERN subdomain
as format I defined JACoW-<conference-acronym+year>-<paper_code>
a valid DOI for a JACoW paper might be 10.18429/JACoW-IBIC2027-TU7MO4I

A **DOI** is a persistent identifier or handle used to uniquely identify various objects, standardized by the International Organization for Standardization (ISO). DOIs are an implementation of the Handle System;[1] they also fit within the URI system (Uniform Resource Identifier). They are widely used to identify academic, professional, and government information, such as journal articles, research reports, data sets, and official publications.

JACoW Milestones

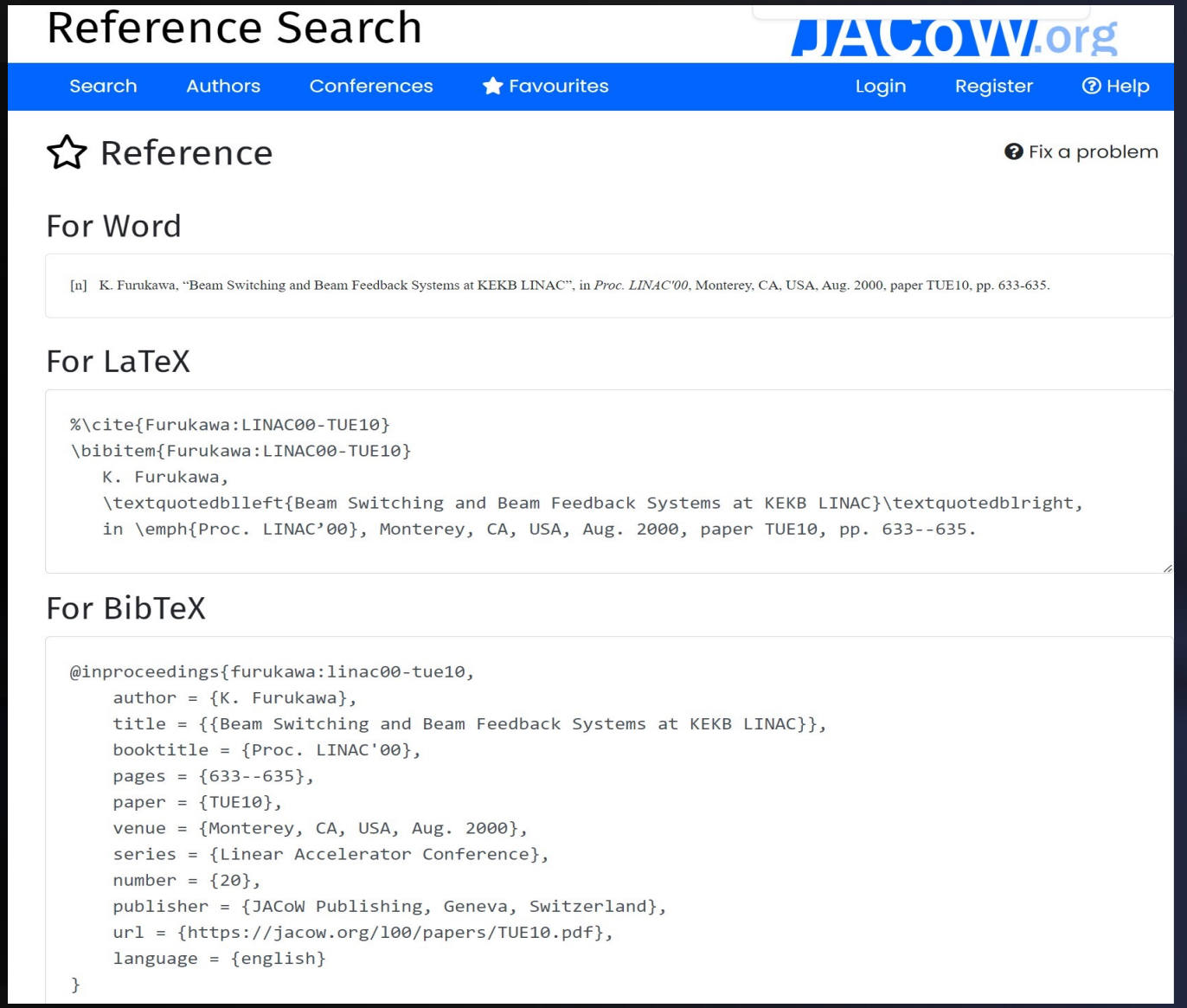
2019 RefScan: Reference Search in all of JACoW's proceedings

In 2019 for the IPAC in Australia ANSTO developed two tools which are enormously important for every author trying to provide correct references to JACoW proceedings papers.
Josh Peters of ANSTO refined the tool so that all relevant papers published on JACoW can now be found with just a few entries.
The references can then be output as bibliographic data in various formats.



2019 RefScan: Reference Search in all of JACoW's proceedings

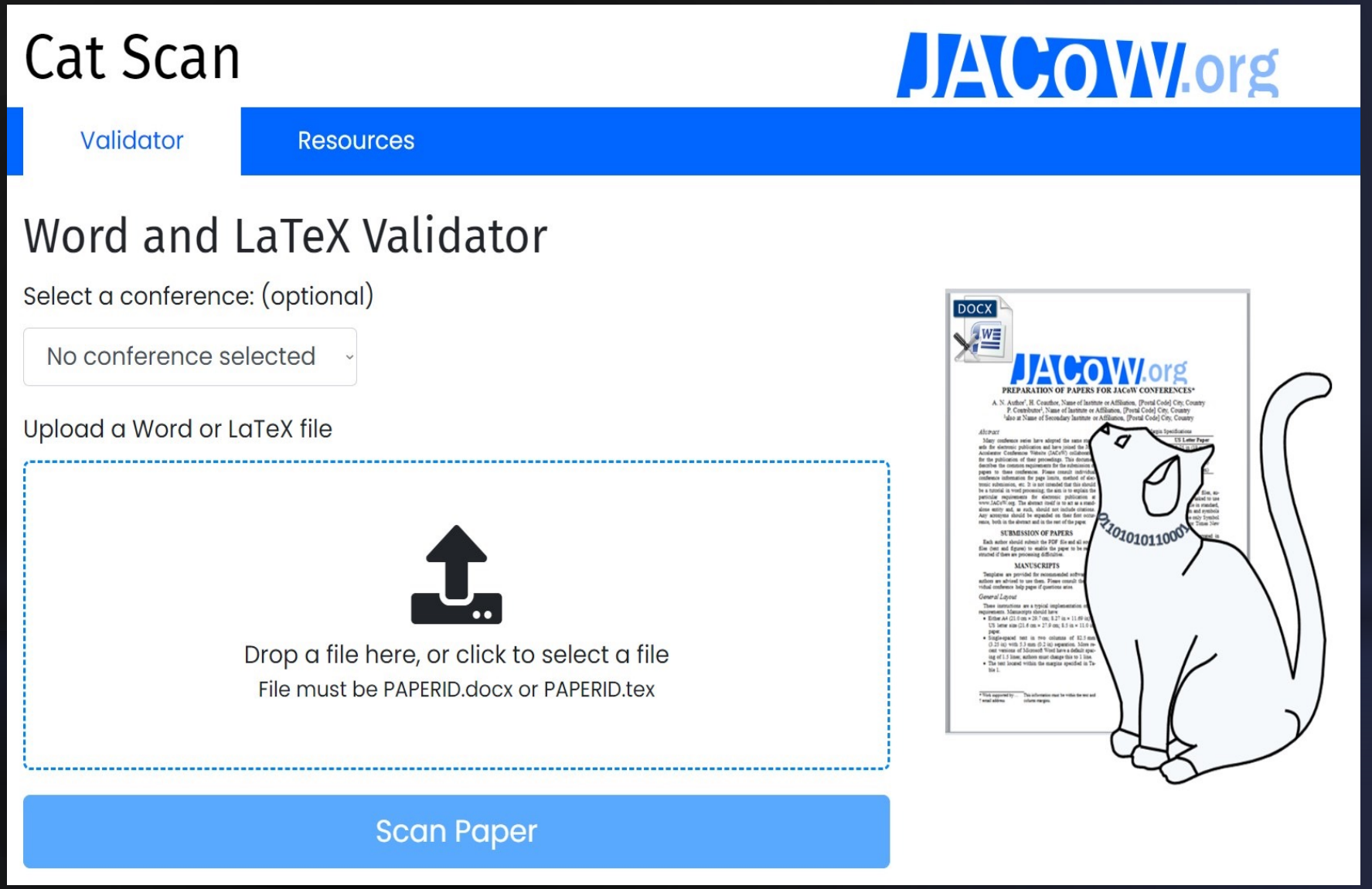
RefScan can provide formatted output for Word, LaTeX and BibTeX as can be seen to the right



* JACoW Milestones

❖2019 CatScan: Word DOCX Validator to examine JACoW papers ahead of submission

The second tool developed at ANSTO by Rosemary Waghorn in 2019 for the IPAC in Australia is named »Cat Scan«.
It is a Word DOCX (and LaTeX) validator which detects wrong settings, material out of margins, checks sequence of citations, references, and pictures, and much more…



* JACoW Milestones

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It is a Word DOCX (and LaTeX) validator which detects wrong settings, material out of margins, checks sequence of citations, references, and pictures, and much more…

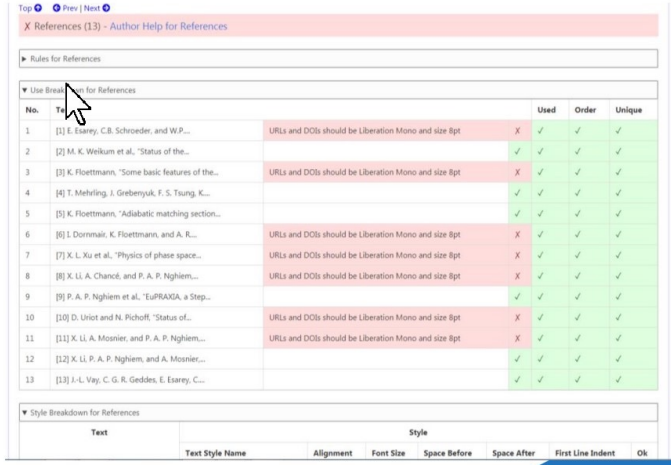
JACoW Cat Scan Editor

Features

- Check for JACoW Styles and Template usage
- Check Paper and Margin Settings
- Check Proofing Language Settings of Content
- Checks Formatting of Paper Title
- Checks Formatting of Author List
- Checks Presence of Abstract
- Checks Section, Sub-section, and Third Level Heading Formatting
- Checks Paragraphs have initial indent and aligned justified
- Searches Document for, Existence, in Text Reference, Sequential Order, Missing, and Duplicated References
- Searches Document for, Existence, in Text Reference, Sequential Order, Missing, and Duplicated Figures
- Searches Document for, Existence, in Text Reference, Sequential Order, Missing, and Duplicated Tables
- Checks Formatting of Figure Captions
- Checks Formatting of Figure Tables
- Checks Paper Title Against SPMS Abstract Title
- Checks Author List Against SPMS Abstract Author List

Online Help: http://www.jacow.org/Authors/CSEHelp

Generate instant feedback reports to educate authors, and to assist editors.



ANSTO

* JACoW Milestones

2019 CatScan: Word DOCX Validator to examine JACoW papers ahead of submission

Cat Scan

JACoW.org

Validator | Resources

Report for THAO06.docx

Cat Scan Word Validator - Help and Usage Guidelines

Score

Overall

118 Ok | 2 Warning | 55 Errors

Show all scores

Errors

Figures

Help

▸ Rules for Figures

▾ Use Breakdown for Figures

No.	Caption	Unique	References	Text
1	Figure 1:	✓	✗	Figure 1: Operation principle of MMD.
1	Figure 2:	✓	✗	Figure 2: MMD 1024, 1024 strips with a pitch of 60 μm for heavy ions registration in mass spectrometry.
1	Figure 3:	✓	• Fig.3 ✓	Figure 3: MMD32v, 32 strips with variable pitch (2 to 300 microns) for micro-beams focusing
1	Figure 4:	✓	• Fig. 4 ✓	Figure 4: MMD64, 64 strips with a step of 100 microns - for XY-positioning and profiling of mini- and micro-beams of charged particles and X-ray radiation
1	Figure 5:	✓	✗	Figure 5: Layout of sensors in the MMD-64 detector
1	Figure 6:	✓	✗	Figure 6: Photo of MMD installed in a accelerator vacuum chamber.

▾ Style Breakdown for Figures

Text	Style							
	Text Style Name	Alignment	Bold	Font Size	Italic	Space After	Space Before	Ok
Figure 1: Operation principle of MMD.	JACoW_Figure Caption	CENTER	None	10	None	6	3	!
Figure 2: MMD 1024, 1024 strips with a pitch of 60 μm for heavy ions registration in mass spectrometry.	JACoW_Figure Caption	**CENTER should be JUSTIFY**	None	10	None	6	3	!
Figure 3: MMD32v, 32 strips with variable pitch (2 to 300 microns) for micro-beams focusing	JACoW_Figure Caption	**CENTER should be JUSTIFY**	None	10	None	6	3	!
Figure 4: MMD64, 64 strips with a step of 100 microns - for XY-positioning and profiling of mini- and micro-beams of charged particles and X-ray radiation	Caption	**CENTER should be JUSTIFY**	None	10	None	3	3	✗
Figure 5: Layout of sensors in the MMD-64 detector	'JACoW_Figure Caption Multi Line' checking against type 'Figure Caption'	**JUSTIFY should be CENTER**	None	10	None	6	3	!
Figure 6: Photo of MMD installed in a accelerator vacuum chamber.	'JACoW_Table Caption' checking against type 'Figure Caption Multi Line'	**CENTER should be JUSTIFY**	None	10	None	3	3	!

Headings

Help

▸ Rules for Headings

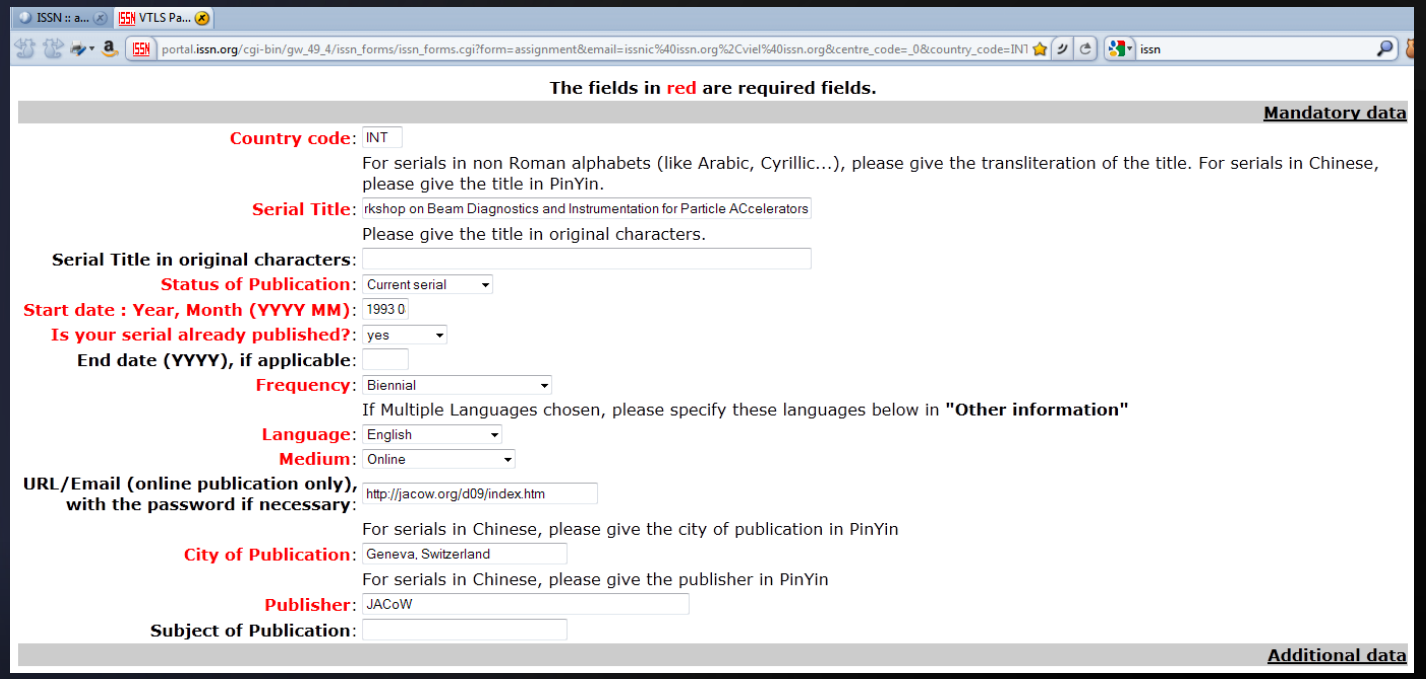
▾ Style Breakdown for Headings

Text	Style								
	Text Style Name	Alignment	Bold	Case	Font Size	Italic	Space After	Space Before	Ok
introduction	JACoW_Section Heading	CENTER	✓	None	12	None	3	9	✓
Metal microstrip detector	JACoW_Section Heading	CENTER	✓	None	12	None	3	9	✓
Principle of Operation	JACoW_Subsection Heading	None	None	None	12	✓	3	6	✓
Photolithography	JACoW_Subsection Heading	None	None	None	12	✓	3	6	✓
Plasma chemical etching	JACoW_Subsection Heading	None	None	None	12	✓	3	6	✓
Assembling	JACoW_Subsection Heading	None	None	None	12	✓	3	6	✓
Sens Tech X-DAS system	JACoW_Subsection Heading	None	None	None	12	✓	3	6	✓
MMD studies on alpha source Pu-239	JACoW_Subsection Heading	None	None	None	12	✓	3	6	✓
Research on the tandem generator KINR NASU (Kiev)	JACoW_Subsection Heading	None	None	None	12	✓	3	6	✓
CONCLUSION	JACoW_Section Heading	CENTER	✓	None	12	None	3	9	✓
Micro-strip metal detectors of various shapes and types for measuring the profile and position of charged particle beams in the atmosphere and in vacuum have been developed and manufactured.	JACoW_Section Heading	**JUSTIFY should be CENTER**	**False should be True**	None	**10.0 should be 12.0**	None	3	9	✗

The inputs of the reading system are connected to the microstrip sensors by means of specially designed and manufactured adapters. Connect to a control computer via a USB 2.0 or Ethernet port. The number of samples in each of the 128 registration channels (maximum 65536 samples) corresponds to the intensity of the quanta registered in a particular channel. Gamma quant energy - from 10 keV.	JACoW_Body Text Indent	No	✓
CHARACTERISATION OF THE MMD+X- DAS SYSTEM	JACoW_Body Text Indent	No	✓
To characterize the bundle of microstrip metal detector and X-DAS reading system, studies were carried out on a Pu-239 alpha particle source and on a tandem generator with protons. The measurements were carried out with different detector models, in vacuum and atmosphere.	JACoW_Body Text Indent	No	✓
MMD studies on alpha source Pu-239	JACoW_Subsection Heading	No	✓
Measurements of a 16-channel microstrip detector with a X-DAS reading system on alpha particles with an energy of 5.24 MeV from the Pu-239 isotope were performed. The graph shows the dependence of the detector response on the voltage at the accelerating electrodes.	JACoW_Figure Caption Multi Line	No	!
Research on the tandem generator KINR NASU (Kiev)	JACoW_Subsection Heading	No	✓
Characteristic studies of MMD operation on a proton beam were performed on a tandem generator of the Kyiv Institute for Nuclear Research of the NAS Ukraine in a vacuum chamber on the central ion pipe of the proton hall. For these studies, a detector with two microstrip metal sensors MMD64, specially designed for two-dimensional measurement of the beam profile of charged particles, was prepared. The detectors were mounted in an aluminium frame with a 25-pin D-Sub connector. 12 strips were connected from each sensor. This number of strips was chosen due to the limited number of electrical connectors on the vacuum chamber.	JACoW_Body Text Indent	No	✓
Fig. 4 shows a photo of the studied sensor (nickel strips thickness - 2 microns, step - 100 mk, width - 40 mk). Two sensors are mounted on top of each other forming an angle of 90 degrees between the strips, to obtain a two-dimensional intensity distribution of the studied beam.	JACoW_Body Text Indent	No	✓
Figure 5: Layout of sensors in the MMD-64 detector	JACoW_Figure Caption Multi Line	No	!
Figure 6: Photo of MMD installed in a accelerator vacuum chamber.	JACoW_Table Caption	No	!
CONCLUSION	JACoW_Section Heading	No	✓
MICRO-STRIP METAL DETECTORS OF VARIOUS SHAPES AND TYPES FOR MEASURING THE PROFILE AND POSITION OF CHARGED PARTICLE BEAMS IN THE ATMOSPHERE AND IN VACUUM HAVE BEEN DEVELOPED AND MANUFACTURED. MMD OF VARIOUS CONFIGURATIONS, MADE IN THE INSTITUTE OF NUCLEAR RESEARCH OF THE NATIONAL ACADEMY OF SCIENCES OF UKRAINE ACCORDING TO THE ORIGINAL TECHNOLOGY OF PLASMA-CHEMICAL ETCHING. THE THICKNESS OF THE SENSORS IS 1-2 MICRONS, THE STEP IS FROM 2 MICRONS, THE NUMBER OF STRIPS IS UP TO 1024. THE POSSIBILITY OF USING MMD WITH A COMMERCIALLY AVAILABLE MULTI-CHANNEL X-DAS READING SYSTEM HAS BEEN TESTED.	JACoW_Section Heading	No	✓
REFERENCES	JACoW_Section Heading	No	✓
[1] N.M. Tkatch, V.A. Kiva, Scientific Papers of the Institute for Nuclear Research, No. 2(4) (2001) 72.	JACoW_Reference when <= 9 Refs	No	✓
[2] E.J. Sternglass, Phys. Rev. 108 (1957) 1.	JACoW_Reference when <= 9 Refs	No	✓
[3] H. Rothard, et al., Springer Tracts in Modern Physics, Springer, Berlin, 1992, p. 97.	JACoW_Reference when <= 9 Refs	No	✓
[4] O. Fedorovich et al., Plasma technologies for manufacturing of metal micro-strip detectors of ionizing radiation, 11th International Conference on Plasma Physics and Controlled Nuclear Fusion, 11-16 September	JACoW_Reference when <= 9 Refs	No	✓

JACoW Milestones

2020 ISSN numbers for JACoW conferences



Now you see the ISSNs (which are necessary for being recognized as a periodical and journal — and a need for being indexed by Scopus) on the JACoW Proceedings page:

the first ISSN numbers were provided in 2011 for 4 conference series by the International ISSN Board in Paris — after this changed it took a long time before JACoW was granted ISSNs for all current conference series (2020 by the Swiss Registrar).

2004 Scopus indexes LINAC and IBIC conferences

After many years of trials in 2023 we finally succeeded in getting two of our series indexed by Scopus/Elsevier.

This will improve the visibility of our authors and JACoW's rôle as publisher of quality scientific papers.

My hope is that we manage to get all conference series indexed in Scopus in the near future.

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PUBLICATION INFORMATION

Publication Title	Proceedings of the International Beam Instrumentation Conference, IBIC
Publication Homepage	https://www.jacow.org/Main/Proceedings?sel=IBIC
ISSN Print	
ISSN Electronic	26735350
Subscription End Date	31-12-2026

PUBLISHER INFORMATION

Publisher Name	JACoW Publishing

SIGNATURE

Name	Volker RW Schaa
Job Title	Chairman JACoW Editorial Board
E-mail	v.r.w.schaa@gsi.de
Date	23
Signature	

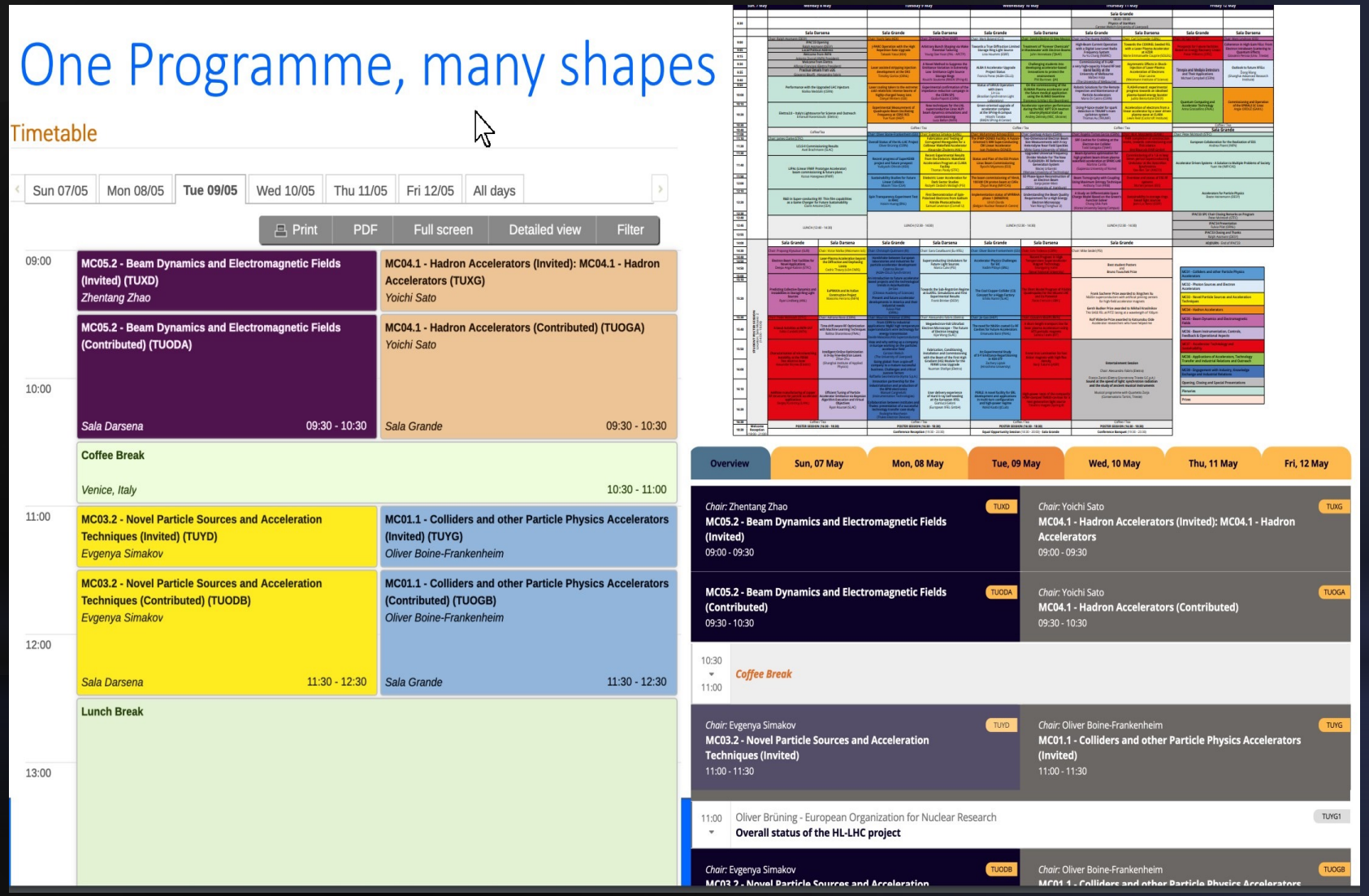
* JACoW Milestones

❖ 2023 First use of a production version of the new JACoW-Indico Conference System

The SPMS Conference System on Oracle was not maintainable anymore as the sole developer Matt Arena was not available to deal with security issues which threatened the operation of conferences more and more.

Since 2016 the Indico team was involved to add functionality to the standard Indico system to make it usable for JACoW's needs. IPAC'23 in Venice was the first time the new JACoW-Indico conference System was used in production.

More will be reported in the future about the Indico system.



What else is JACoW?

- First place where you find excellent proceedings
- A Community with requirements and rules
  - What are the requirements of JACoW?
  - What is the JACoW Charter?
  - What does it mean “Community”?
- A Website with…

* JACoW: Producing Excellent Proceedings

IPAC2022

Proceedings of the
13th International Particle Accelerator Conference

The links below lead to detailed listings of the many facets of the conference, including Portable Acrobat Format (PDF) files of all invited and contributed papers, together with slides from oral presentations.

Index of papers by:
- Session
- Classification
- Author
- Institute
- DOI per Institute
- Keyword

- IPAC'22 Proceedings Volume [995 MB]
  The complete volume of papers
- IPAC'22 Proceedings at a glance [214 MB]
  First page only of all papers with hyperlinks to complete versions
- IPAC2022 Guide Book [70 MB]
  Venue, Awards, Scientific Program, and Events
- IPAC'22 Particle Accelerator Projects and Upgrades Booklet [1.5 MB]
  The complete volume of papers
- IPAC'22 Student Poster Session Guide [2 MB]
  Information about the Student Poster Session

- IPAC'22 Preface
- IPAC'22 Committees

IPAC2022 was organized by the **Synchrotron Light Research Institute (SLRI)** in Nakhon Ratchasima, Thailand and hosted at the *IMPACT Exhibition and Convention Center* in **Bangkok, Thailand** :: **12–17 June 2022**

Frank Zimmermann (CERN), Hitoshi Tanaka (RIKEN), Porntip Sudmuang (SLRI), Prapong Klysubun (SLRI),

LINAC2022

Proceedings of the
31st International Linear Accelerator Conference

The links below lead to detailed listings of the many facets of the conference, including Portable Acrobat Format (PDF) files of all invited and contributed papers, together with slides from oral presentations and PDFs from poster sessions.

Index of papers by:
- Session
- Classification
- Author
- Institute
- DOI per Institute
- Keyword

- LINAC'22 Proceedings Volume [415 MB]
  The complete volume of papers
- LINAC'22 At a glance [85.5 MB]
  First page only of all papers with hyperlinks to complete versions

- LINAC'22 Preface
- LINAC'22 Programme
- LINAC'22 Committees & Organisation

LINAC2022 was hosted by **STFC, Cockcroft Institute** and the **John Adams Institute** and held at the **Arena and Convention Centre (AC** in **Liverpool, UK** :: 28 August – 2 September 2022

Editorial Board: Peter McIntosh (STFC DL), Graeme Burt (Lancaste Univ.), Robert Apsimon (Lancaster Univ.), Volker RW Schaa (GSI)

October 2022

ISBN 978-3-95450-215-8

Publishing Policies & Ethics

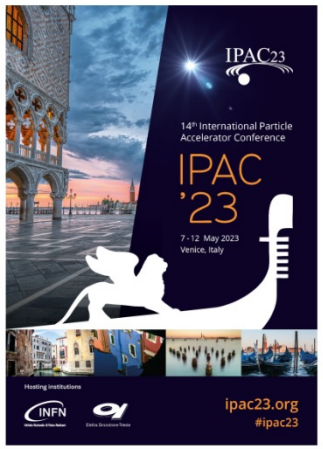
DOI:10.18429/JACoW-LINAC2022

ISSN 2226-0366

IPAC'23

Proceedings of the
14th International Particle Accelerator Conference

The links below lead to detailed listings of the many facets of the conference, including Portable Acrobat Format (PDF) files of all invited and contributed papers, together with slides from oral presentations and PDFs from poster sessions.



Index of papers by:
- Session
- Classification
- Author
- Institute
- DOI per Institute
- Keyword

- IPAC'23 Proceedings Volume (2.1 GB)
  The complete volume of papers
- IPAC'23 Proceedings at a glance (519.2 MB)
  First page only of all papers with hyperlinks to complete versions
- IPAC'23 synoptic table (96.3 kB)
- IPAC'23 photobook (11.5 MB)

IPAC'23 was jointly organised by **Istituto Nazionale di Fisica Nucleare** and **Elettra Sincrotrone Trieste** in **Venice, Italy** from **7 to 12 May 2023** at the Venice Convention Centre.

DATE: 7 - 12 May 2023
ISBN: 978-3-95450-231-8
ISSN: 2673-5490
DOI: 10.18429/JACoW-IPAC2023

Editorial Board:
Ralph Assmann - Deutsches Elektronen-Synchrotron DESY
Peter McIntosh - Science and Technology Facilities Council (STFC/DL/ASTeC)
Giovanni Bisoffi - Istituto Nazionale di Fisica Nucleare (INFN/LNL)
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Ivan Andrian - Elettra-Sincrotrone Trieste S.C.p.A.
Giulia Vinicola - Istituto Nazionale di Fisica Nucleare

CYC2022

Proceedings of the
23rd International Conference on Cyclotrons and their Applications

The links below lead to detailed listings of the many facets of the conference, including Portable Acrobat Format (PDF) files of all invited and contributed papers, together with slides from oral presentations nd PDFs from poster sessions. .

Index of papers by:
- Session
- Classification
- Author
- Institute
- DOI per Institute
- Keyword

- Proceedings Volume [142 MB]
  The complete volume of papers
- Proceedings at a glance [19 MB]
  First page only of all papers with hyperlinks to complete versions

- Foreword
- Committees

Editorial Board: Tianjue **Zhang** (CIAE), Shizhong **Ar**
Volker RW **Schaa** (GSI), Yuntao **Liu**

Publishing Policies & Ethics

DOI:10.184

HIAT2022

Proceedings of the
15th International Conference on Heavy Ion Accelerator Technology

The links below lead to detailed listings of the many facets of the conference, including Portable Acrobat Format (PDF) files of all invited and contributed papers, together with slides from oral presentations.

Index of papers by:
- Session
- Classification
- Author
- Institute
- DOI per Institute
- Keyword

- HIAT'22 Proceedings Volume [90 MB]
  The complete volume of papers
- HIAT'22 At a glance [10 MB]
  First page only of all papers with hyperlinks to complete versions
- HIAT2022 Abstract Booklet [16 MB]
  Venue, Scientific Program, Events

- HIAT'22 Group Photo
- HIAT'22 List of Participants
- HIAT'22 Committees

HIAT2022 was organized by **GSI Helmholtzzentrum for Heavy Ion Research** and held in **Darmstadt, Germany** :: **27 June – 1 July 2022**

Editorial Board: Frank Herfurth (GSI), Volker RW Schaa (GSI)

September 2022

ISBN 978-3-95450-240-0

Publishing Policies & Ethics

DOI:10.18429/JACoW-HIAT2022

ISSN 2673-5547

IBIC2022

Proceedings of the
11th International Beam Instrumentation Confe

The links below lead to detailed listings of the many facets of the conference Format (PDF) files of all invited and contributed papers, together with slides from poster sessions.

Index of papers by:
- Session
- Classification
- Author
- Institute
- DOI per Institut
- Keyword

- IBIC'22 Proceed
  The complete volu
- IBIC'22 At a gla
  First page only of hyperlinks to com
- IBIC2022 Abstract Booklet [5 MB]
  Venue, Scientific Program, Events, Synoptic Table

NAPAC2022

Proceedings of the North American Particle Accelerator Conference

The links below lead to detailed listings of the many facets of the conference, including Portab Format (PDF) files of all invited and contributed papers, together with slides from oral present

Index of papers by:
- Session
- Classification
- Author
- Institute
- DOI per Institute
- Keyword

- Proceedings Volume [327 MB]
  The complete volume of papers
- Proceedings at a glance [70 MB]

What are the Requirements of JACoW?

http://www.jacow.org/About/PoliciesRequirementsForPublishingOnJACoW

- CC-BY 4.0: https://creativecommons.org/licenses/by/4.0/
- Editor/IT participation in Team Meetings
- Technical paper requirements
  - PDFs: proper metadata, margins, paper size, font embedding, version compatibility
- Indico use *not* required
  - Use of Indico and repository requires agreement on repository privacy, quality, integrity
  - Indico new model still evolving

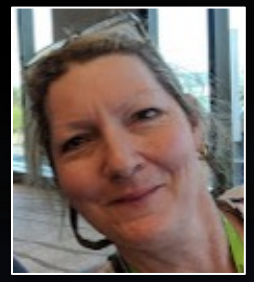
The JACoW Charter

http://www.jacow.org/About/Charter

- JACoW operates according to the rules and policies of the JACoW Charter, documented on jacow.org
- The charter defines less what JACoW does, more how JACoW operates.
  - Board of Directors composition, elections, responsibility and authority
  - Annual Team Meeting
  - Annual Stakeholder's Meeting
    - (Nearly) always at IPAC to attract broadest audience
  - Main contacts
    - Chairperson
    - **Meghan McAteer**

Coordinator

Jana Thomson



- "The existence of the JACoW site does not detract from the rights of individual conference organisers to publish their proceedings on other web sites, storage media or hard copies of their choice."

What is JACoW? A Collaboration

http://www.jacow.org/About/TheCollaboration

- JACoW is an international collaboration
  - Dedicated to prompt high-quality publication of accelerator science conference proceedings

- Many stakeholders
  - Users of JACoW proceedings/papers
  - Institute representatives (Institutional "stakeholders")
  - Conference representatives/organizers
  - JACoW Team and Board of Directors

- There is often much overlap among all classes of stakeholders
  - http://www.jacow.org/StakeHolders/ListOfStakeholders

What is JACoW? A Website (or more)…

- Joint Accelerator Conferences on the Web(sites)
  - Proceedings hosted by CERN and KEK
  - JACoW wiki/website hosted by Elettra
  - Proceedings scripts (Volker for SPMS, now Ivan@github for Indico)
  - SPMS servers hosted by CERN and KEK (Indico: CERN)
  - Upload/download servers hosted by PSI, Jefferson Lab, CERN
  - Legacy SPMS code (formerly supported by FNAL)
  - Source code, request tracking hosted by sourceforge
    - With investment in a functionality merge with Indico
- We cannot hope to achieve our goals without the resources (hardware and time) provided by the support of national labs and conference series

* JACoW: Producing Excellent Proceedings

Back to the production of proceedings and a big problem we face:
the paper delivered to JACoW conferences shifted from MSWord to LaTeX
and we do not have enough LaTeX editors: **WE NEED YOU**!

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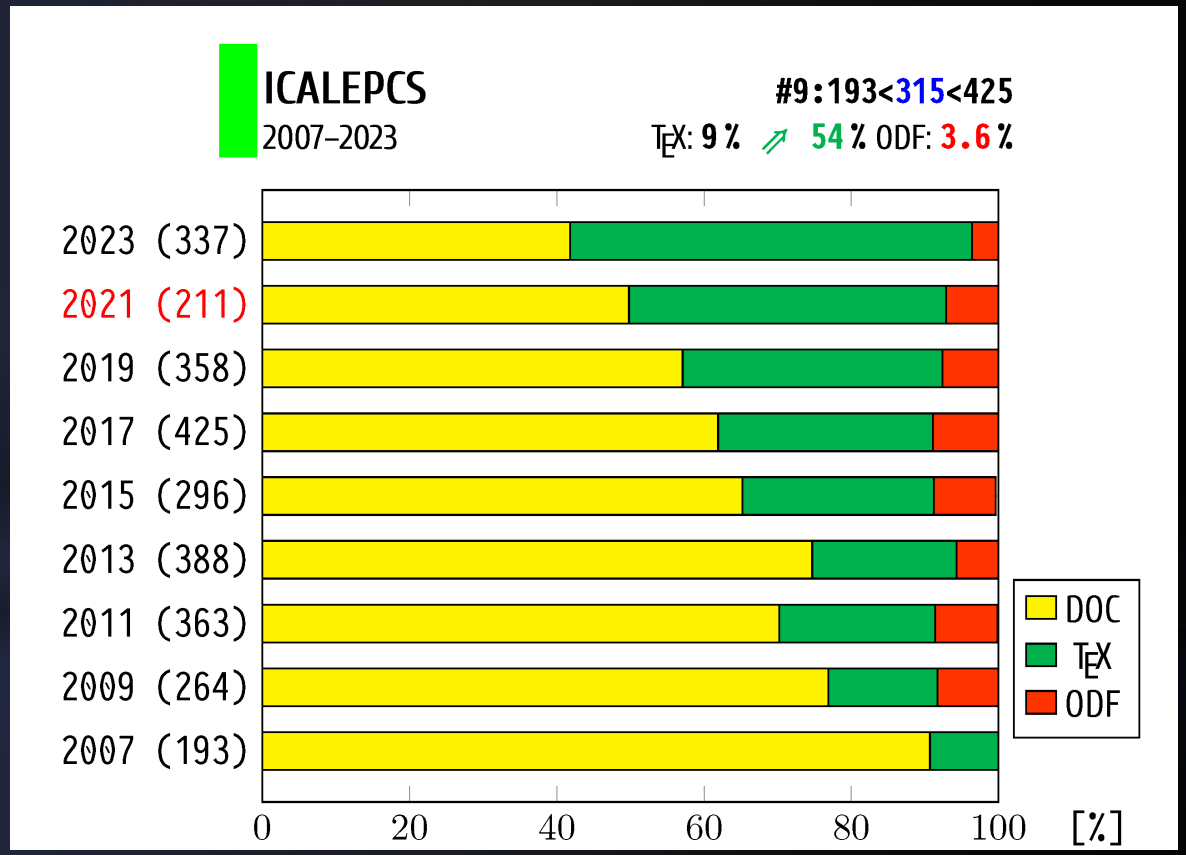
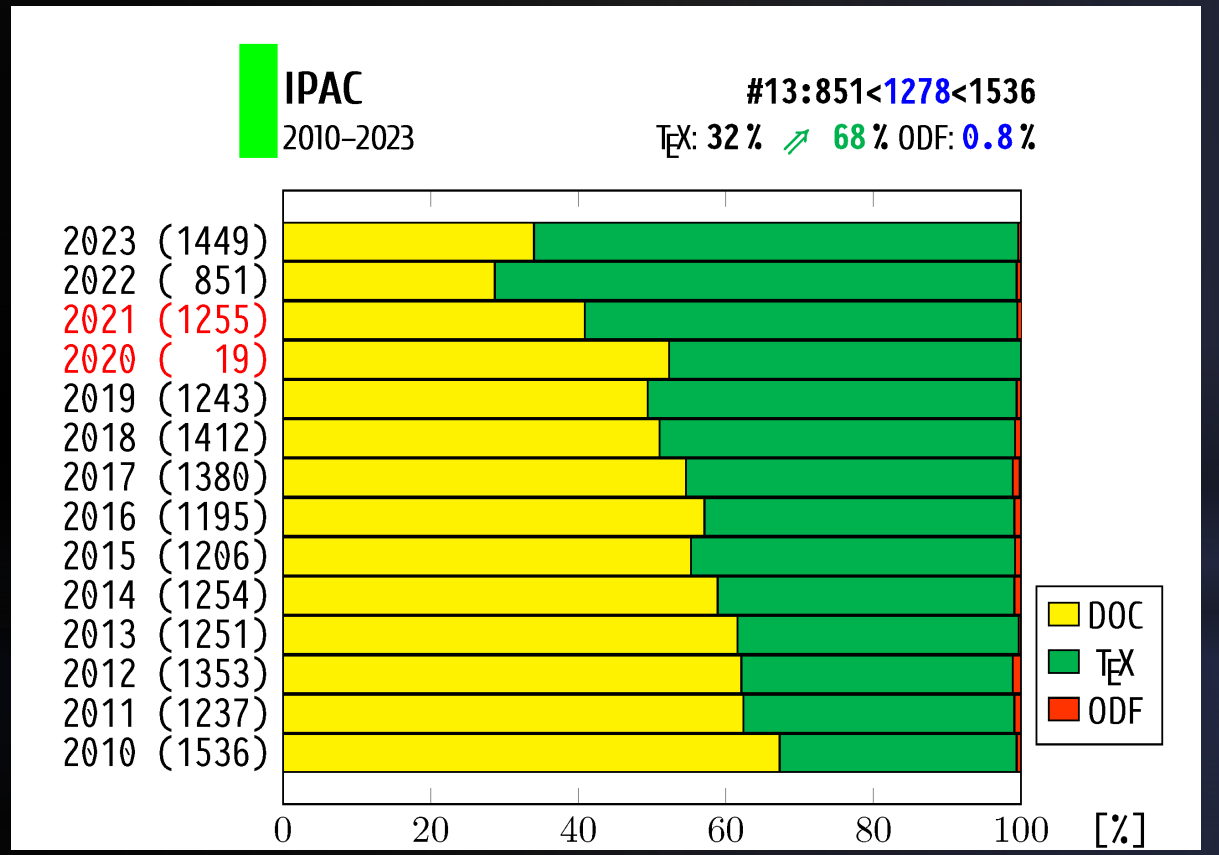


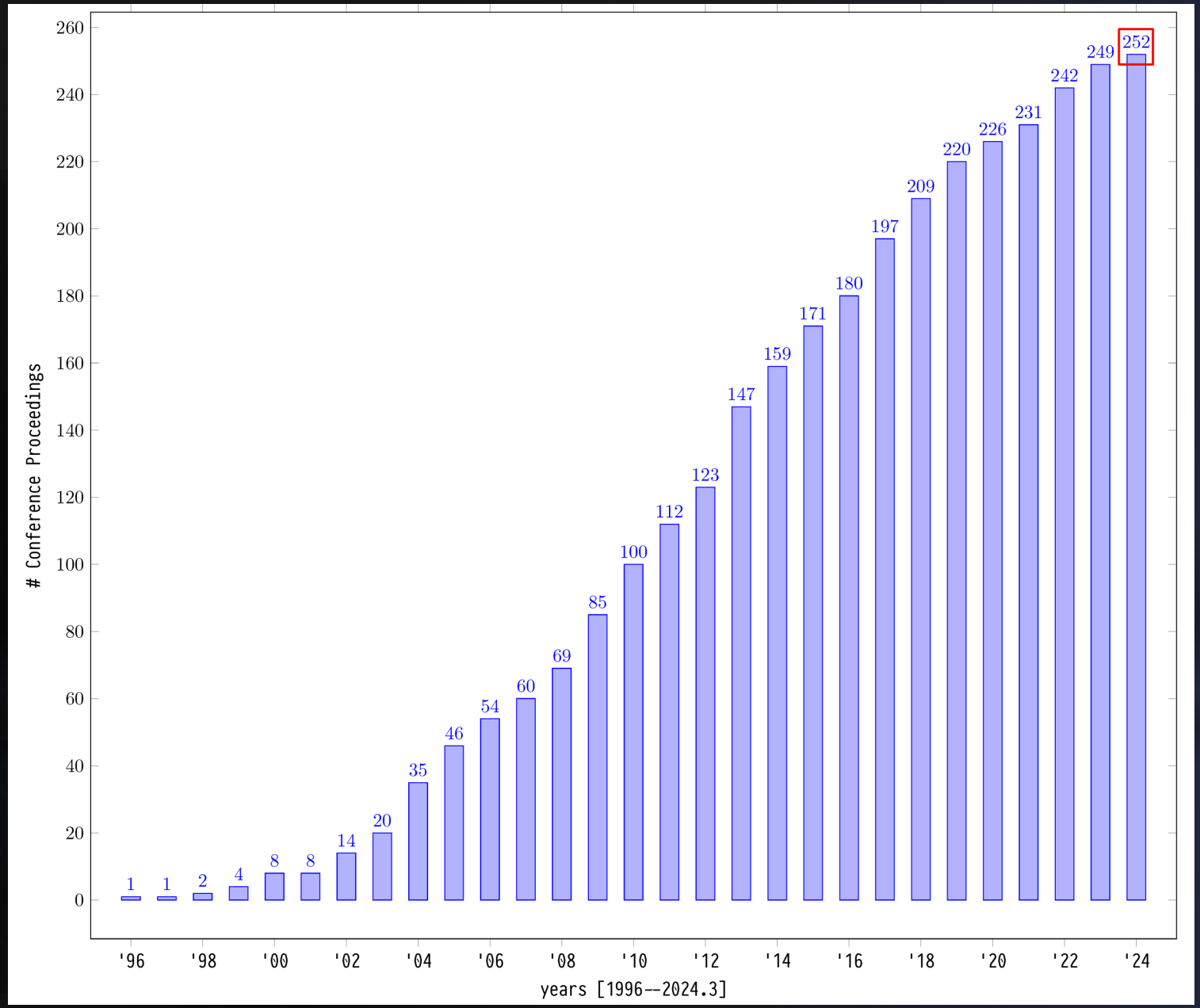


JACoW: Producing Excellent Proceedings

This is the actual count of proceedings on JACoW on 2024-02-28 with 2024 adding three “new” proceedings with ICALEPCS’91, FLS’23, and ICALEPCS’23.

This brings it to a total of 253 proceedings.

Actions and updates to conferences can be seen on https://accelconf.web.cern.ch/JACoW/Website-Updates.html



JACoW: Producing Excellent Proceedings

Updates to JACoW.org can be seen in this table showing also the number and size of file groups (PDFs of papers, talk slides, posters, photo albums, and the total size of the conference).

Currently we are at

Paper PDFs: 74,642

Talk PDFs: 84,197

Poster PDFs: 88,715

Photos [MB]: 102,411

Total size [MB]: 300,253

JACoW Publication	Conference Series	Conference	Number of papers	Number of talks	Number of Posters	Photos (MB)	Total Size (MB)	Folder on AccelConf
06/11/2018	RuPAC	RuPAC'18	157	51	20		1035	rupac2018
17/12/2018	MEDSI	MEDSI'18	126	43	57	3	1301	medsi2018
22/01/2019	LINAC	LINAC'18	277	85	60	8	1383	linac2018
15/02/2019	ECRIS	ECRIS'18	51	15	14	18	286	ecris2018
29/04/2019	PCaPAC	PCaPAC'18	74	28	22	2	381	pcapac2018
06/05/2019	IBIC	IBIC'18	135	38	25	9	695	ibic2018
06/05/2019	ABDW	eeFACT'18	53			5	193	eefact2018
08/05/2019	ICAP	ICAP'18	62	87			703	icap2018
28/06/2019	IPAC	IPAC'19	1225	96		98	3246	ipac2019
30/10/2019	COOL	COOL'19	33	28	3	15	494	cool2019
15/11/2019	FEL	FEL'19	203	58	20	9	1136	fel2019
15/11/2019	HIAT	HIAT'18	43	35	7	3	545	hiat2018
18/11/2019	SRF	SRF'19	269	76	81	70	2929	srf2019
30/06/2020	Cyclotrons	Cyclotrons'19	99	52	28	52	1014	cyclotrons2019
13/07/2020	IBIC	IBIC'19	158	41	53	4	1249	ibic2019
13/07/2020	ABDW	ERL'19	39	56	4	0	700	erl2019
14/10/2020	ICALEPCS	ICALEPCS'19	358	125	172	110	2970	icalepcs2019
16/12/2020	NA-PAC	NA-PAC'19	270	128	53	0	2417	napac2019
18/12/2020	IBIC	IBIC'20	70	27	86	3215	3779	ibic2020
13/09/2021	IPAC	IPAC'21	1246	10	386	0	4055	ipac2021
22/10/2021	RuPAC	RuPAC'21	139	57	16	0	844	rupac2021
15/11/2021	IBIC	IBIC'21	112	28	98	1369	2041	ibic2021
18/11/2021	MEDSI	MEDSI'20	103	34	70	1312	1889	medsi2020
07/12/2021	IPAC	IPAC'20	19	0	0	0	60	ipac2020
11/01/2022	COOL	COOL'21	28	24	19	0	397	cool2021
18/03/2022	ICALEPCS	ICALEPCS'21	218	95	137	1	1394	icalepcs2021
12/04/2022	LINAC	LINAC'20		49			0	linac2020
13/04/2022	ABDW	HB'21	42	19	16	768	1024	hb2021
18/07/2022	IPAC	IPAC'22	841	89	0	0	3141	ipac2022
19/07/2022	ECRIS	ECRIS'20	44	49	1	0	403	ecris2020
03/10/2022	HIAT	HIAT'22	37	38	5	2	579	hiat2022
24/10/2022	LINAC	LINAC'22	231	73	70	0	1608	linac2022
24/10/2022	SRF	SRF'21	194	10	81	228	1249	srf2021
08/12/2022	NA-PAC	NA-PAC'22	255	136	67	0	1679	napac2022
15/12/2022	IBIC	IBIC'22	130	40	43	0	1126	ibic2022
27/02/2023	ABDW	eeFACT'22	44	67	0	2	699	eefact2022
27/02/2023	PCaPAC	PCaPAC'22	33	19	10	1	166	pcapac2022
17/07/2023	FEL	FEL'22	128	57	0	54	1312	fel2022
27/09/2023	IPAC	IPAC'23	1401	96	0	11	16563	ipac2023
06/11/2023	Cyclotrons	Cyclotrons'22	98	58	39	0	747	cyclotrons2022
08/11/2023	SRF	SRF'23	207	82	65	8	2022	srf2023
22/12/2023	IBIC	IBIC'23	111	40	61	4	1625	ibic2023
30/01/2024	ICALEPCS	ICALEPCS'23	338	152	189	5	2189	icalepcs2023
12/02/2024	ABDW	FLS'23	65	89	8	8	686	fls2023
28/02/2024	ICALEPCS	ICALEPCS'91	149	0	0	65	174	icalepcs1991
		Σ total	**74642**	**84197**	**88715**	**102411**	**300253**	

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This finishes my overview on JACoW

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Finally a special thank you to Kazuro for everything he did for me!