

*Technical Process of Producing a Proceedings

MOZA20

Volker RW Schaa
GSI, Darmstadt, Germany
[TM in Vancouver, BC, Canada](#)
08 Nov 2016

- * Responsibility
- * Paper Processing - General Flow
- * Tools & Methods to Ensure Flow
- * Preparations for Proceedings Publication
- * Proceedings Entry Page
- * Final Checks

Editor in Chief

- * The editor in chief is responsible for the Editorial Office and the publication of the proceedings. These two tasks have always been very technical, therefore the person responsible for the Scientific Secretariat (SS) had always been supported by a (technical) editor.
- * Chris stated that "*An Editor whose job has often begun just in advance of the conference can be at a disadvantage being unfamiliar with the organization of the scientific programme, the types of contribution, the speakers, contributors, etc. numerous issues can fall between the cracks between SS and the Editor.*
If the SS does not take responsibility for publication, the tandem SS/Editor needs to be very strong."
- * When this link is weak, it nearly always results in a delayed publication.

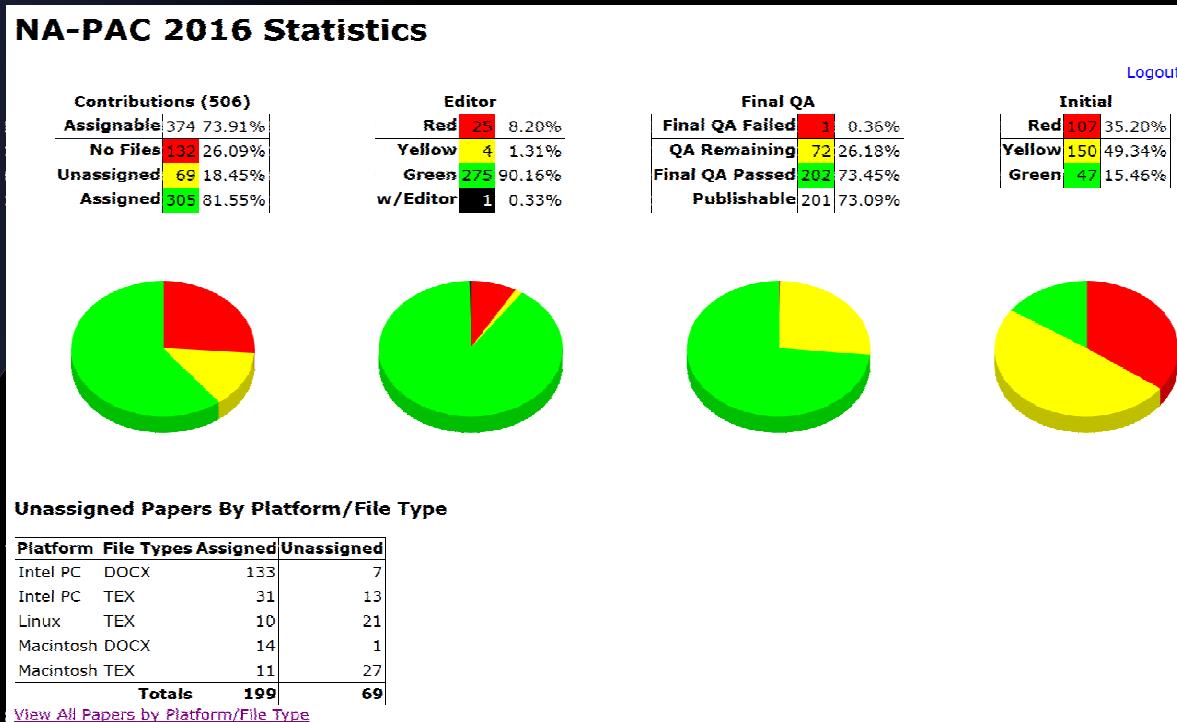
* Paper Processing - General Flow

1. core team starts ahead of event (Thursday) after an update of tools, parameters, procedures and establishing a "pickiness" level
2. goal is to have processed 80% of the papers on Sunday
3. new editors start on Sunday with the remaining 20%
4. core team starts QA on Monday (or after 80% have been reached)
5. dedicated editors start with transparency processing (on Monday noon, work starts after talk has been given)
6. starting from Monday ATC (Author Title Checks) done by Author Reception crew
7. general warning to the authors to submit latest Wednesday morning
8. YELLOWS to GREEN (after warning email Tuesday) on Wednesday

9. daily reports distributed to editors about
 - "broken papers"
 - "page checks"
 - "tearing boxes"
 - Author accepted YELLOW dot paper, but requests changes
 - Author rejected changes

* Tools & Methods to Ensure Flow

Topics: 1-5 /reports.html or /rpt_stats.html



check (at least) daily to
be able to (re)direct
workforces

be aware: the number of "Assignable" etc. depends on the threshold in
--> /params.show_cats?cat=USER

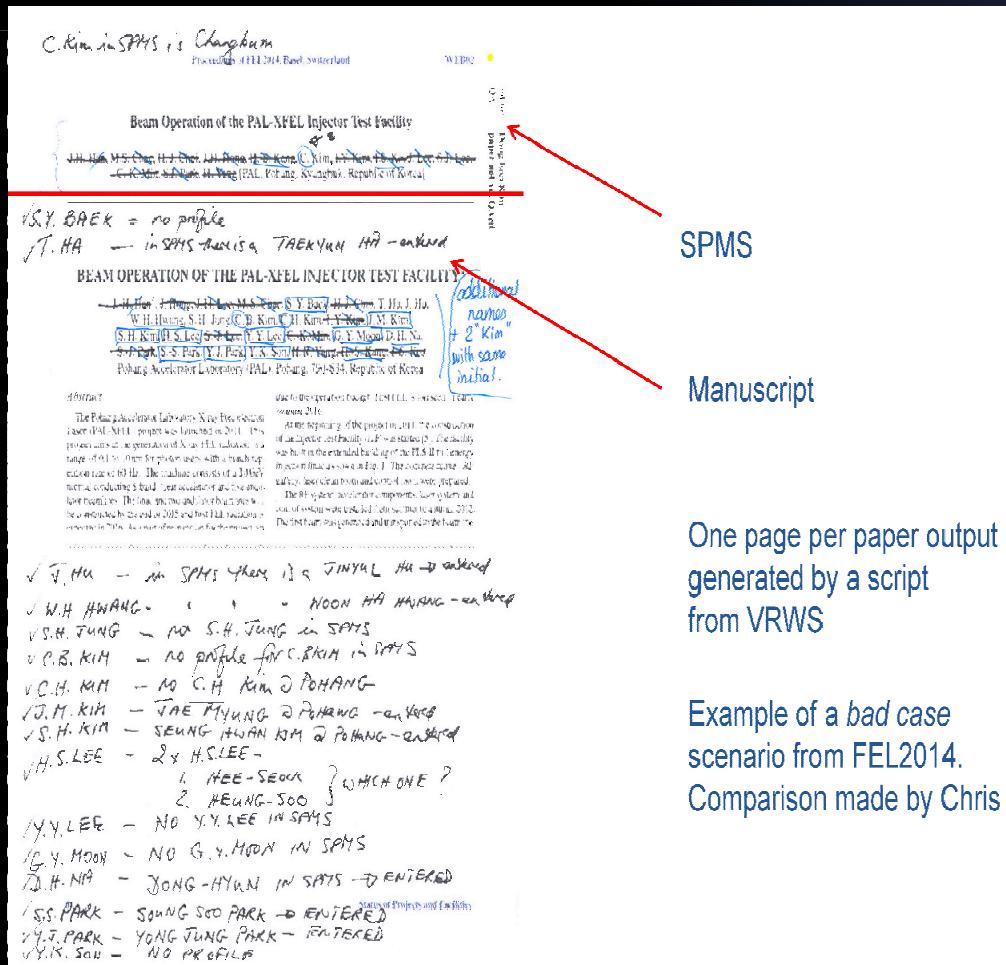
File Upload Threshold must be "1" to see all "Assignable", "No Files", and
"Unassigned" submissions

* Tools & Methods cont.

Topics: 6 Author-Title-Check (ATC)

The ATC important to have the correct title and authors in SPMS (and finally in the proceedings).

This task is hard to be done by the editors as comparison from screen to paper is harder then striking out on paper.



* Tools & Methods cont.

Topics: 9 Daily Reports

Broken Papers: what does it mean?

BEAM DYNAMICS ANALYSIS FOR THE ULTRA-FAST KICKER IN CIRCULAR COOLER RING OF JLEIC *

```
<0>+XDQJ,|||||||0+:DQJ|||50$||5LPPHU|||6||:DQJ||| ,QVWLWXWH||R||ORGHUQ||3K  
\LFV||&KLQHVF||$FDGHP\||R||6FLHQFHV|||/DQ||KRX|||0|||||||&KLQD||| 0|||8QLYHUVLW\||R|||&KLQHVF||  
$FDGHP\||R||6FLHQFHV|||$HLMQJ|||0|||||||&KLQD||| 0|||7KRPDV||-HHIUVVRQ||1DWLRQDO||$FFHOHUDWRU )  
DEFL0W\||1HZSRUW||1HZV|||9$|||||||86$  
$EVWUDFW
```

An ultra-fast kicker system consisting of four quarter wavelength resonator based deflecting cavities was developed that simultaneously resonates at 10 subharmonic modes of the 476.3MHz bunch repetition frequency. Thus every 10th bunch in the bunch train will experience a transverse kick while all the other bunches are undisturbed. This fast kicker is being developed for the Energy Recovery Linac (ERL) based electron Circular Cooler Ring (CCR) in the proposed Jefferson Lab Electron Ion Collider (JLEIC, previously MEIC). The electron bunches can be reused 10-30 turns thus the beam current in the ERL can be reduced to 1/10 -1/30 (150mA - 50mA) of the cooling bunch current (1.5A). In this paper, several methods to synthesize such a kicker waveform will be discussed and the comparison made by beam dynamics tracking in Elegant.

,1752'8&7,21
&RQOLQJ||R|||LRQ|||EHDPV|||LV|||FULWLFDO|||LQ|||GHOLYHULQJ|||KLJK|||
OXPLQRVLWLHV||IRU||WKH||SURSRVHG|||JLEIC [1-4]. The present JLEIC design utilizes a scheme of multi-stage cooling, a DC cooler in the booster and bunched beam cooler in the ion collider ring. For energy efficiency and to minimize the power to be dissipated in the beam dump, an ERL based electron cooler configuration is being developed.

The conceptual layout of the single turn ERL based bunched beam cooler ring is shown in Fig.1 (black) [12,4]. In the future high luminosity upgrade, high intensity electron beam is needed. A circulator ring was proposed to reuse the electron bunches, as shown in Fig.1 (green). Electron bunches will circulate 10-30 turns in the circulator ring until the beam quality is poor, and then back to the ERL for energy recovery. In this scheme the beam current and bunch repetition frequency in ERL can be reduced by a factor 10-30.

Figure 1: Schematic of ERL based bunched beam cooler (black) with option for future recirculation (green).

A critical component in this scheme is the ultra-fast :RUNI|VXSSRUWHG|E\||-HHIUVVRQ||6FLHQFH||\$VVRFLDWHV||//&|XQGHU||8||6||'2|||&RQWUDFW||1R|||'(-\$4|||-0|||250|||||.yulu@jlab.org|||0|||||||0|||||||
kicker that periodically deflect individual electron bunches in and out of the circulator ring from and to the driver ERL, leaving the orbit of adjacent bunches in the circulator ring undisturbed. To avoid the interference to the undisturbed bunches, the half pulse width should be very short (less than the bunch spacing 2.1 ns for a 476.3 MHz bunch train). 3XOVHG||SRZHUV||VXSSOLHV||HVSHFLDOO||ZLWK||WKHVH||
FKDUDEWHULVWLHV||DUH||EH\|RQG||VWDWH||R|||WKH||DUW||DQ|||DOWHUQDWLYH||GULYLQJ|||PHWKRG||
LV||VXPPLQJ|||VLPSOH|||FRVLQH|||ZDYHV|||DWO|||VXE|||IUHTXHQFLHV|||R|||WKH|||ILQDO|||EHDP|||
UHSWHLWLQJ|||IUHTXHQFLV|||with appropriate phase and amplitudes WRJ
JHQHUDWLRQ|||D|||FRQWLQXRXV|||ZDYHTRUP|||>5-6], as shown in Fig.2, the total kick voltage is 55kV in this paper, which will give a 1mrad deflection angle for 55 MeV electron bunch.

BEAM DYNAMICS ANALYSIS FOR THE ULTRA-FAST KICKER IN CIRCULAR COOLER RING OF JLEIC *

Y. Huang^{1,2,3}, H. Wang³, R.A. Rimmer³, S. Wang³

1. Institute of Modern Physics, Chinese Academy of Sciences, Lanzhou 730000, China.
2. University of Chinese Academy of Sciences, Beijing 100049, China.
3. Thomas Jefferson National Accelerator Facility, Newport News, VA 23606, USA.

Abstract

An ultra-fast kicker system consisting of four quarter wavelength resonator based deflecting cavities was developed that simultaneously resonates at 10 subharmonic modes of the 476.3MHz bunch repetition frequency. Thus every 10th bunch in the bunch train will experience a transverse kick while all the other bunches are undisturbed. This fast kicker is being developed for the Energy Recovery Linac (ERL) based electron Circular Cooler Ring (CCR) in the proposed Jefferson Lab Electron Ion Collider (JLEIC, previously MEIC). The electron bunches can be reused 10-30 turns thus the beam current in the ERL can be reduced to 1/10 - 1/30 (150mA - 50mA) of the cooling bunch current (1.5A). In this paper, several methods to synthesize such a kicker waveform will be discussed and the comparison made by beam dynamics tracking in Elegant.

INTRODUCTION

Cooling of ion beams is critical in delivering high luminosities for the proposed JLEIC [1-4]. The present JLEIC design utilizes a scheme of multi-stage cooling, a DC cooler in the booster and bunched beam cooler in the ion collider ring. For energy efficiency and to minimize the power to be dissipated in the beam dump, an ERL based electron cooler configuration is being developed.

The conceptual layout of the single turn ERL based bunched beam cooler ring is shown in Fig.1 (black) [12,4]. In the future high luminosity upgrade, high intensity electron beam is needed. A circulator ring was proposed to reuse the electron bunches, as shown in Fig.1 (green). Electron bunches will circulate 10-30 turns in the circulator ring until the beam quality is poor, and then back to the ERL for energy recovery. In this scheme the beam current and bunch repetition frequency in ERL can

Figure 1: Schematic of ERL based bunched beam cooler (black) with option for future recirculation (green). A critical component in this scheme is the ultra-fast

*Work supported by Jefferson Science Associates, LLC under U.S.DOE Contract No. DE-AC05-06OR23177

kicker that periodically deflect individual electron bunches in and out of the circulator ring from and to the driver ERL, leaving the orbit of adjacent bunches in the circulator ring undisturbed. To avoid the interference to the undisturbed bunches, the half pulse width should be very short (less than the bunch spacing 2.1 ns for a 476.3 MHz bunch train). Pulsed power supplies, especially with these characteristics are beyond state of the art, an alternative driving method is summing simple cosine waves at sub-frequencies of the final beam repetition frequency with appropriate phase and amplitudes to generate a continuous waveform [5-6], as shown in Fig.2, the total kick voltage is 55kV in this paper, which will

Figure 2: Flat-top kicker waveform (bottom) resulting from summation of a DC offset and 10 subharmonics of the nominal bunch frequency of 476.3MHz (top).

* Tools & Methods cont.

Broken Papers: reported by [scan-keywords.pl](#)

It can happen on the Author's side or when editing a paper in PDF. Most often it is caused by entering a text where the font is missing and has to be embedded.

Depending which font and where it is entered the encoding of the pdf file breaks.

The internal representation of a character is not anymore 1:1 to a readable character. As a result the text is not anymore searchable (in full) which is needed for the search engine at CERN.

* Tools & Methods cont.

Page Checks: reported by [pagecheck.pl](#)

It reports problems with PDFs like

- fonts not embedded
- wrong page size
- wrong page count
- too many fonts
- missing QA
- other problems with PDF

```
1 MOPPT024 Editor: Jan Chrin
2 Status Green
3 # missing QA
4 MOPPT025 Editor: Volker RW Schaa
5 Status Green
6 # missing QA
7 MOPMY001 Editor: Johan Olander
8 Status Green
9 # possible problems with non JACoW page size: '612 x 792'
10 TUPOR020 Editor: Christine Petit-Jean-Genaz
11 Status Green
12 # #fonts 128
13 TUPOY021 Editor: Todd Satogata
14 Status Green
15 # #fonts 256
16 TH2PB01 Editor: Sue Waller
17 Status Green
18 QA by Jan Chrin
19 page count ok ( 5 pages)
20 # font "TimesNewRoman,Bold" type "TrueType" not embedded
21 # font "TimesNewRoman,Italic" type "TrueType" not embedded
22 # font "TimesNewRoman" type "TrueType" not embedded
23 THPMB009 Editor: John Poole
24 Status Green
25 # possible problems with non JACoW page size: '595 x 841'
26 # #fonts 107
27 THPMW035 Editor: Todd Satogata
28 Status Green
29 # possible problems with non JACoW page size: '612 x 792'
```

Tearing Boxes: reported by `boxcheck.pl`

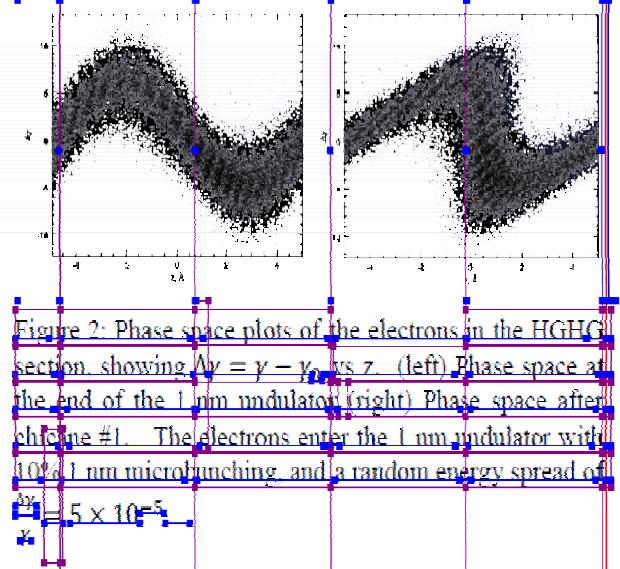
This problems appears less frequently nowadays,

- it is Word problem
- there is a fix
- the PDF have to be redone from source



- Tearing of columns appears in the paper. Sometimes with visible shifts of column parts
- Text seems to be multiple times in the PDF and displaying is suppressed by bounding boxes

distribution. Our 20 GeV beam initially contains 1 nm microbunching with a bunching factor of 0.1.



* Tools & Methods cont.

Author accepted YELLOW dot paper, but requests changes:
reported by /rpt_user_dot_reassign.html

NA-PAC 2016 Paper "Dots" Reassigned by Authors			
Paper ID	Editor	Timestamp	Author Comments
SUPO01	Maria A. Power	21-Oct 17:49:48	
SUPO12	Janet Lee Bergman	13-Oct 00:40:33	After Eq. (4), please change "duopdecapole" to "duodecapole".
SUPO13	Kathryn Fillinger	14-Oct 00:20:20	
SUPO17	Kim Miller	11-Oct 03:49:09	
SUPO27	Amy McCausey	11-Oct 00:49:30	
SUPO31	Cathy Eyberger	13-Oct 22:42:30	
SUPO37	Kim Miller	13-Oct 14:25:22	
SUPO41	Kathryn Fillinger	14-Oct 15:53:24	
SUPO42	Maria A. Power	21-Oct 15:47:52	
SUPO43	Maria A. Power	23-Oct 14:09:15	Thank you.
SUPO46	Cathy Eyberger	14-Oct 06:20:26	
SUPO49	Kim Miller	13-Oct 00:24:06	Thanks!
SUPO52	Maria A. Power	13-Oct 19:25:52	
SUPO57	Cathy Eyberger	12-Oct 23:41:01	
SUPO59	Volker RW Schaa	14-Oct 19:15:07	
SUPO60	Volker RW Schaa	19-Oct 20:07:24	
SUPO61	Kathryn Fillinger	13-Oct 04:09:59	
SUPO62	Amy McCausey	10-Oct 20:43:22	
MOA2CO04	Volker RW Schaa	09-Oct 20:30:24	Looks good.
MOA3CO04	Volker RW Schaa	13-Oct 04:30:53	My apologies, did try to get all your edits in but see now that I missed some. Did not realize the editor's source version was available to me. Sorry to increase your work load and thank you for making the corrections.
MOA4IO02	Kim Miller	11-Oct 19:45:45	
MOB2CO04	Kim Miller	12-Oct 18:55:33	

* Tools & Methods cont.

Author Rejected Changes: reported by mail to Administrator

Email with rejection goes to the conference administrator. Therefore it has to be checked carefully for messages with the subject line:
Author Rejected Editor's Change <paper_id>

Entry in SPMS (email of administrator) to be checked:

/params.show_cats?cat=MAIL
-> Administrators' Email Address xxx

From Christine Petit-Jean-Genaz <Christine.Petit-Jean-Genaz@cern.ch>
Subject Fwd: Author Rejected Editor's Change WEIB06
To Me <v.r.w.schaa@gsi.de>
2016-05-24 18:07

Dear Volker,

Please see the author's comments on WEIB06, the remaining YELLOW dot.

Since you edited the file, do you want to fix the issues mentioned below?

Chris.

Christine Petit-Jean-Genaz
IPAC'10, '11, '12, '13, '14, and '16 Scientific Secretariats
JACoW Coordinator
Honorary CERN Staff Member
Mobile: +33 (0)78 950 3786
Home (Portugal): +351 289 842 648
Home (France): +33 450 41 27 20
E-mail: christine.petit-jean-genaz@cern.ch

Begin forwarded message:

From: <ipac16@kek.jp>
Subject: Author Rejected Editor's Change WEIB06
Date: 23 May 2016 15:55:09 GMT+1
To: <Christine.Petit-Jean-Genaz@cern.ch>
Cc: Rolland Paul Johnson <rol@muonsinc.com>
Reply-To: <Christine.Petit-Jean-Genaz@cern.ch>

Author's comment: Reference [15] should be
R.P.Johnson et al.,
Reference [12] should be
T.J.Roberts and P.L.Gueye, presented at IPAC'15, Richmond, Virginia, USA,
MOPMA055
You may want to capitalize Figure 1 and Figure 6 in You may want to
capitalize Figure 1 and Figure 6 in the lower left paragraph on p. 4.
The use of Fig. in the second paragraph of p.5 for Fig. 11a and Fig. 11b
may not be consistent with the use of "figure" in the rest of the paper.

* Preparations for Proceedings Publication

- file threshold = 1
- NO unassigned files

Your status page might look like this

IPAC 2016 Statistics

Volker RW Schaa

[Logout](#) [Search](#) [My Schedule](#) [Home](#) [Find Profiles](#)

Contributions (1277)

Assignable	1269	99.37%
No Files	8	0.63%
Unassigned	0	0.00%
Assigned	1269	100.00%

Editor

Red	1	0.08%
Yellow	0	0.00%
Green	1268	99.92%
w/Editor	0	0.00%

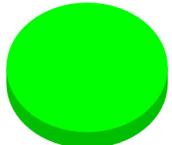
Final QA

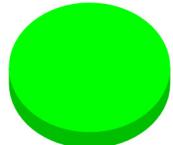
Final QA Failed	0	0.00%
QA Remaining	-1	-0.08%
Final QA Passed	1269	100.08%
Publishable	1268	100.00%

Initial

Red	260	20.49%
Yellow	577	45.47%
Green	432	34.04%









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
15,069	File Uploaded
3,272	Abstract Updated
2,320	Abstract Initial QA Performed
2,143	File Removed
1,829	Edit Complete
1,307	Final QA Passed
1,290	Abstract Created

Error Log

Count	Pct	Running	Error Type
511	18.18%	18.18%	TC06 Reference or Reference formatting incorrect (missing, multiply defined, wrong order, indentation, hyperlink, inconsistent, wrong)
382	13.59%	31.77%	TC04 Figure formatting incorrect (outside margins, single/multiple line caption not centred/justified or placed above, Caption wrongly labeled [abbreviated, colon missing, wrong font size, bold/italic])
335	11.92%	43.69%	TC03 Table formatting incorrect (not centered, outside margins, caption below table, wrongly labeled, not in Initial Caps, single/multiple line caption not centred/justified)
322	11.45%	55.14%	TC02 Text formatting incorrect (paragraphs, section/sub-section headings, indentation, column/intercolumn width, wrong text flow, number/unit split over lines))

* Preparations for Proceedings Publication

- file threshold = 1
- NO unassigned files
- all reports do not show problems:
 - no "broken papers"; "page check" OK; no "tearing boxes"
- all papers have GREEN status and are publishable
 - QA is done; poster police entries have been made
- all author change requests are answered
- poster pdf files have been checked (if posters will be published)
- all entries in the config file are correct
 - ISBN
 - conference specific data (name, site, title, date, series, number, editors, ...)
 - data export enabled (DOI, bibliography/citation)
 - proceedings volume setting

* Proceedings Entry Page

- decide on layout
- gather material beside proceedings
 - Chairman's Foreword
 - Committees list
 - Participants list
 - Conference Photos
- prepare material
 - html rather than pdf
 - photo album (size <5% of scientific material!)

* Proceedings Entry Page - horizontal”

IPAC2016 Proceedings of the 7th International Particle Accelerator Conference



ORGANIZING COMMITTEE CHAIR
Won Namkung, PAL
SCIENTIFIC PROGRAM COMMITTEE CHAIR
In Soo Ko, POSTECH
LOCAL ORGANIZING COMMITTEE CHAIR
Kyung-Ryul Kim, PAL

- Preface
- Committees
- List of Participants
- Conference Photographs

Index of papers by:

- Session
- Classification
- Author
- Institute
- DOIs per Institute
- Keyword



Christine Petit-Jean-Genaz (CERN), Dong Eon Kim (PAL),
Editorial Board: Kyung Sook Kim (PAL), In Soo Ko (POSTECH),
Volker RW Schaa (GSI)

June 2016

Copyright © 2016 by JACoW – cc Creative Commons Attribution 3.0

ISBN 978-3-95450-147-2



August 19 – 24, 2012
**11th International
Computational
Accelerator Physics
Conference (ICAP)**

» Rostock-Warnemünde (Germany)
at the coast of the Baltic Sea

ICAP 2012
August 19 – 24, Warnemünde



FACULTY OF COMPUTER SCIENCE
AND ELECTRICAL ENGINEERING

COMMITTEES

PARTICIPANTS

CONFERENCE PHOTOGRAPHS

Index of papers by:

SESSION

CLASSIFICATION

AUTHORS

INSTITUTES

KEYWORDS

PROCEEDINGS VOLUME [44 MB]

The complete volume of papers

PROCEEDINGS AT A GLANCE [10 MB]

First page only of all papers with hyperlinks to complete versions

ICAP2012 was hosted by the
University of Rostock and held
at Rostock-Warnemünde,
Germany, from August 19–24,
2012



* Entry page - “mixed”



DIPAC2011



Proceedings of the 10th European Workshop on Beam Diagnostics and Instrumentation for Particle Accelerators

The links below take you to Portable Acrobat Format (PDF) files of all invited and contributed papers, together with slides from oral presentations and additionally posters. With 291 registrants DIPAC 11 was the largest and the last event in the DIPAC conference series. In the future DIPAC will be replaced by IBIC, a fusion between DIPAC and BIW (Beam Instrumentation Workshop).

DIPAC 2011
16-18 May 2011
Hamburg, Germany

Scope
The biennial DIPAC Workshop (Beam Diagnostic and Instrumentation for Particle Accelerators) provides a unique forum for experts and newcomers in the field of beam diagnostics and instrumentation for particle accelerators worldwide. The programme includes invited and contributed talks, poster sessions, discussion groups, an industrial exhibition and a visit of the accelerator facilities at DESY.

The Conference Venue will be the Museum Freightor "Cap San Diego" in the centre of Hamburg.

Programme Committee
S. V. Selskov (MIK), Lund; J. Cao (HEP), L. Corradi (Robot); B. Devring (CERN), M. Perini (Synchrotron Thesis); T. Faeh (PSI); D. Giesen (CERN), B. Jonson (Thales); P. Kammel (CERN); M. Knecht (CERN), C. Lutz (CERN); A. Peeters (HTL); G. Rehm (DIAMOND); M. Schreiber (CERN); G. Sibille (PSI); V. Stratakis (Max-Planck Institute of Nuclear Physics); E. van der Geer (Frascati Synchrotron); K. Wittenburg (CERN)

Last Organizing Committee DESY
H. Ahrens, M. Altmann, C. Bremmer, O. Klath, K. Klossack, G. Aulen, S. Lehning, F. Lohberg, M. Marx, D. Nebe, N. Wettengel

Deadlines
Abstract Submission: February 15 2011
Registration and accommodation: April 1 2011
Paper Submission: May 11 2011

Contact
Key Wittenburg, Key.wittenburg@desy.de
Tel: +49 (040) 8990-2066, Mail: +49 (0175) 9046 222
<http://dipac2011.desy.de>

Index of papers by:

SESSION

CLASSIFICATION

AUTHOR

INSTITUTE

KEYWORD

PROCEEDINGS VOLUME [133 MB]

The complete volume of papers

COMMITTEES

PARTICIPANTS

ABSTRACT BOOKLET

PHOTO GALLERY

DIPAC 2011 was hosted by
DEUTSCHES ELEKTRONEN SYNCHROTRON
and held aboard the museum freighter Cap San Diego, during May 16-18, 2011 in Hamburg, Germany.

DIPAC ISSN 2225-4633

- broken links (reported by Xenu.exe)
- orphaned files (reported by Xenu.exe)
- conference specifics?
- editorial board mentioned?
- ISBN correct?
- publication date?
- inspire dataset (checked and delivered?)
- DOI dataset (checked and uploaded?)

TM2016: Proceedings of the Team Meeting 2016



JTM'16 | 7-10 November / TRIUMF, Vancouver, Canada

[PARTICIPANTS](#)

[GROUP PHOTO](#)

[Index by:](#)

[SESSION](#)

[CLASSIFICATION](#)

[AUTHORS](#)

[INSTITUTES](#)

The Team Meeting 2016 was hosted by
TRIUMF
Vancouver, BC, Canada 7—10 November, 2016

