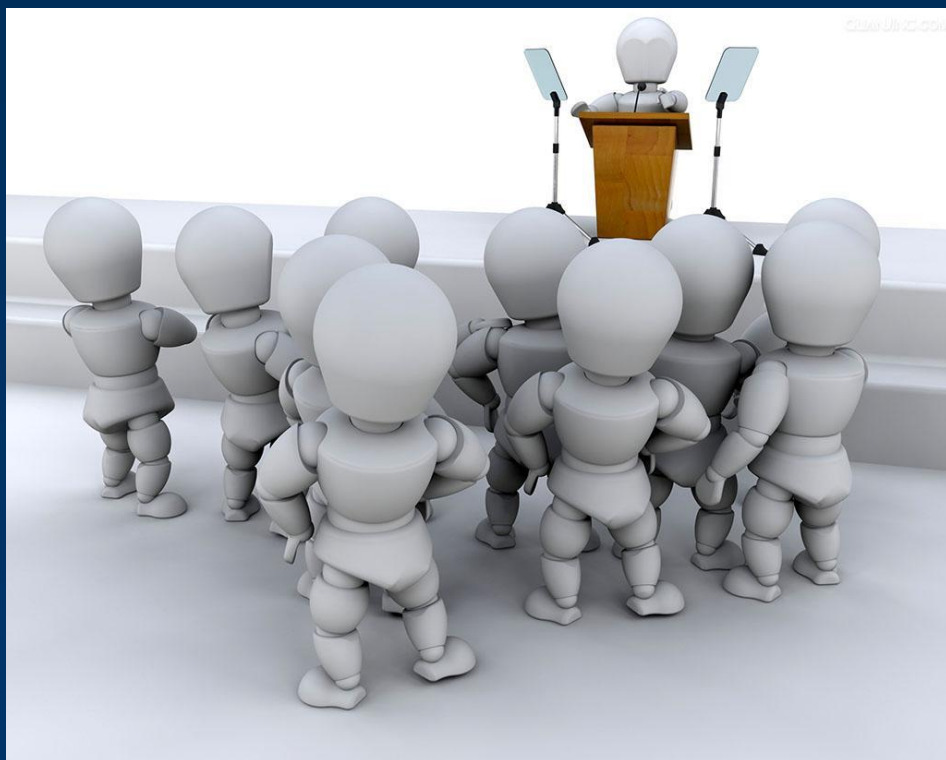




加速器中心 赵宁

2015-4-21

科研人员交流科研成果、研究进展，
思维碰撞的途径？



会 议

会议文集

办会之“难”

会前

- 兼职会务筹备人员与团队，分工不清，系统培训少，会前忙乱；
- 通知、注册、缴费、会议日程编制等人工作业，耗费人力且易出错；
- 组织者（主席）投入大量时间精力于行政事务--组织筛选各类报告，编制会议日程；

会中

- 报告与文章的提交与更新；
- 会务设岗考虑不全，报告服务与会场服务人员职责不清，缺乏培训；

会后

- 在哪里出版会议文集，出版经费？
- 文集编辑与出版时效性？
- 如何进行文章检索与引用？

办会需求

- ？ 将会议主席/委员会从繁琐的行政事务中解放出来
- ？ 减少人力投入，参会手续自助，信息电子化
- ？ 会务统筹设岗、培训，专职高效，忙而不乱
- ？ 稳定、专业的文集出版渠道，及时获取易查

办会需求

- ？ 将会议主席/委员会从繁琐的行政事务中解放出来
- ？ 减少人力投入，参会手续自助，信息电子化
- ？ 会务统筹设计，流程清晰，高效，忙而不乱
- ？ 稳定、专业的文集出版渠道，及时获取易查

JACoW & SPMS

目 录

- 1 联合加速器会议文集网站 (JACoW)**
- 2 会议科学事务管理系统 (SPMS)**
- 3 会议文集编纂**
- 4 对未来会议组织模式的设想**

联合加速器会议文集网站 (JACoW) 简介

联合加速器会议文集网站 (JACoW)

概况与使命

◆ Joint Accelerator Conference Website (JACoW) www.jacow.org

加速器学界国际会议组织与文集发布的公益性网站

站点设在CERN，在欧洲（CERN）、亚洲（KEK）、美洲（FNAL）设立区域服务器 & IT维护支持中心

- 在JACoW网站上为加盟的会议发布电子文集
- 为加盟会议提供会议筹备与运作、文集制作发布的工具、软件、平台与服务

◆ 1997~2015 已成立近18年，超过20,000名用户，已为17个会议系列，超过160个会议发布电子会议文集。

加速器学界国际会议文集的主流发布渠道

开源数据库

◆ 加速器会议领域最主要的开源数据库，完备的用户信息
(个人信息-电子邮件-单位部门-国家-隶属学术组织-感兴趣的会议领域)

[Add Another Affiliation](#) [Add A Private Address](#) [IndExhTest](#) [Delegate Registration](#) [Manage Abstracts](#) [Change Password](#)

User Affiliation

[Edit Affiliation](#) [Delete Affiliation](#)

Institute of High Energy Physics (IHEP)
Accelerator Center
19B Yuquan Road
Shijingshan District
PRC - 100049 Beijing

Email Address zhaoning@ihep.ac.cn

Mail Stop

PO Box 918

Telephone +86-10-88236077

User Affiliation

[Edit Affiliation](#) [Delete Affiliation](#)

Institute of High Energy Physics, Chinese Academy of Sciences (IHEP)
Accelerator Division
19B Yuquan Road
P.O. Box 918
PRC - Beijing 100049

Email Address zhaoning@ihep.ac.cn

Mail Stop

PO Box 918

Telephone +86-10-88236077

User Information	Citizenship Information
Last (Family) Name Zhao	Country People's Republic of China
First (Given) Name Ning	Time Zone PRC
Middle Name	Date Format dd-MON-yy hh24:mi
Initials N.	27-MAR-15 16:43 (PRC)
Membership Information	Mailing Lists
Member Affiliation	List Conference
No APS DPB	No Beam Cooling
No European Physical Society	No International Conference on Cyclotrons and their Applications
No IEEE	No Electron Cyclotron Resonance Ion Source
No IUPAP	No International Workshop on Accelerator Science and Technology for Electron-Ion Collider
No Institute of Physics	Yes International Free-Electron Laser Conference
No National Physical Society	No Heavy-Ion Accelerator Technology
No TWAS	No International Beam Instrumentation Conference
	No International Conference on Accelerator and Large Experimental Physics Control Systems
	No International Computational Accelerator Physics Conference
	Yes Advanced Beam Dynamics Workshops
	Yes International Particle Accelerator Conference
	No Linear Accelerator Conference
	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
	No JACoW Team Meeting

Select the conference series for which you wish to receive announcements.

Conference

- ☐ Advanced Beam Dynamics Workshops
- ☐ Beam Cooling
- ☐ Electron Cyclotron Resonance Ion Source
- ☐ Heavy-Ion Accelerator Technology
- ☐ International Beam Instrumentation Conference
- ☐ International Computational Accelerator Physics Conference
- ☐ International Conference on Accelerator and Large Experimental Physics Control Systems
- ☐ International Conference on Cyclotrons and their Applications
- ☐ International Free-Electron Laser Conference
- ☐ International Particle Accelerator Conference
- ☐ International Workshop on Accelerator Science and Technology for Electron-Ion Collider
- ☐ JACoW Team Meeting
- ☐ Linear Accelerator Conference
- ☐ North American Particle Accelerator Conference
- ☐ Personal Computers and Particle Accelerators Controls
- ☐ Russian Particle Accelerator Conference
- ☐ Superconducting RF
- ☐ Symposium on Accelerator Physics

* Required Fields

Submit

联合加速器会议文集网站 (JACoW)

开源数据库

- ◆ 加速器会议领域**最主要的开源数据库**，完备的用户信息
(个人信息-电子邮件-单位部门-国家-隶属学术组织-感兴趣的会议领域)
- ◆ **文献检索平台**
- ◆ 提供检索元数据：INSPIRE (高能物理信息系统)
- ◆ 关注参考文献引用率：将提供Endnotes, BibTeX, JabRef等参考文献管理软件使用的参考文献资料数据
- ◆ 与美国ISI接洽，获得SCI影响因子

联合加速器会议文集网站 (JACoW)

合作组

◆ 用户

◆ 机构代表

◆ 会议代表：主席/SPC主席

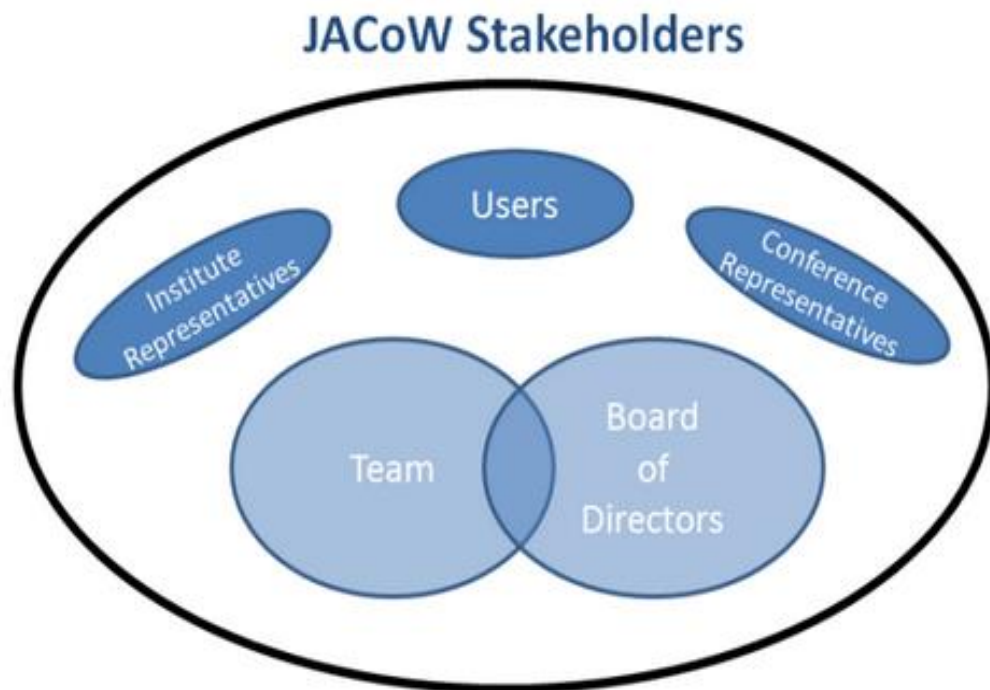
◆ 董事会：

领导与管理合作组/团队

年度报告：JACoW股东大会 (IPAC)

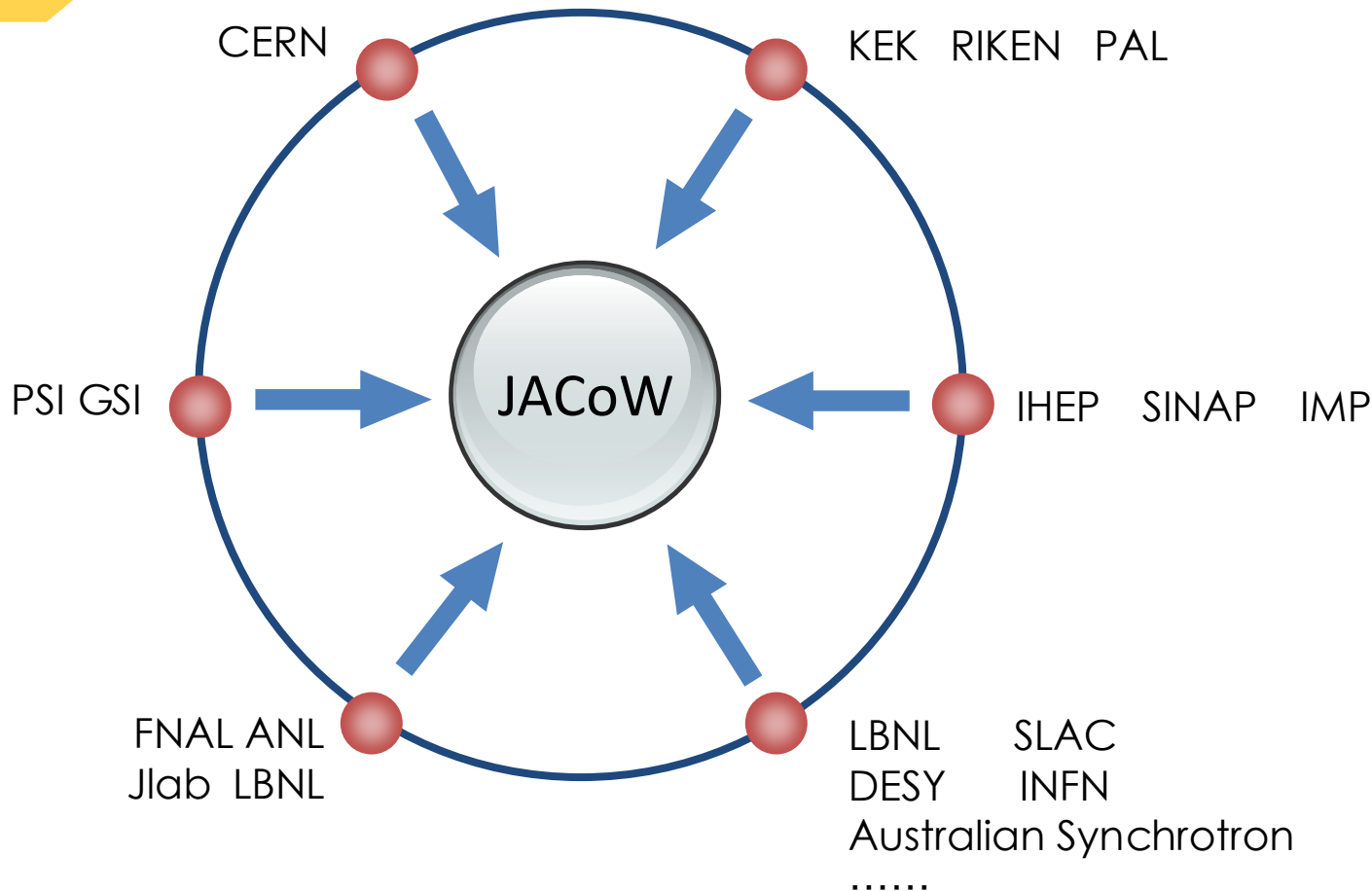
◆ 官方运行团队 JACoW Team:

完成大量日常工作：数据库IT维护、技术研发、文集编辑.....



联合加速器会议文集网站 (JACoW)

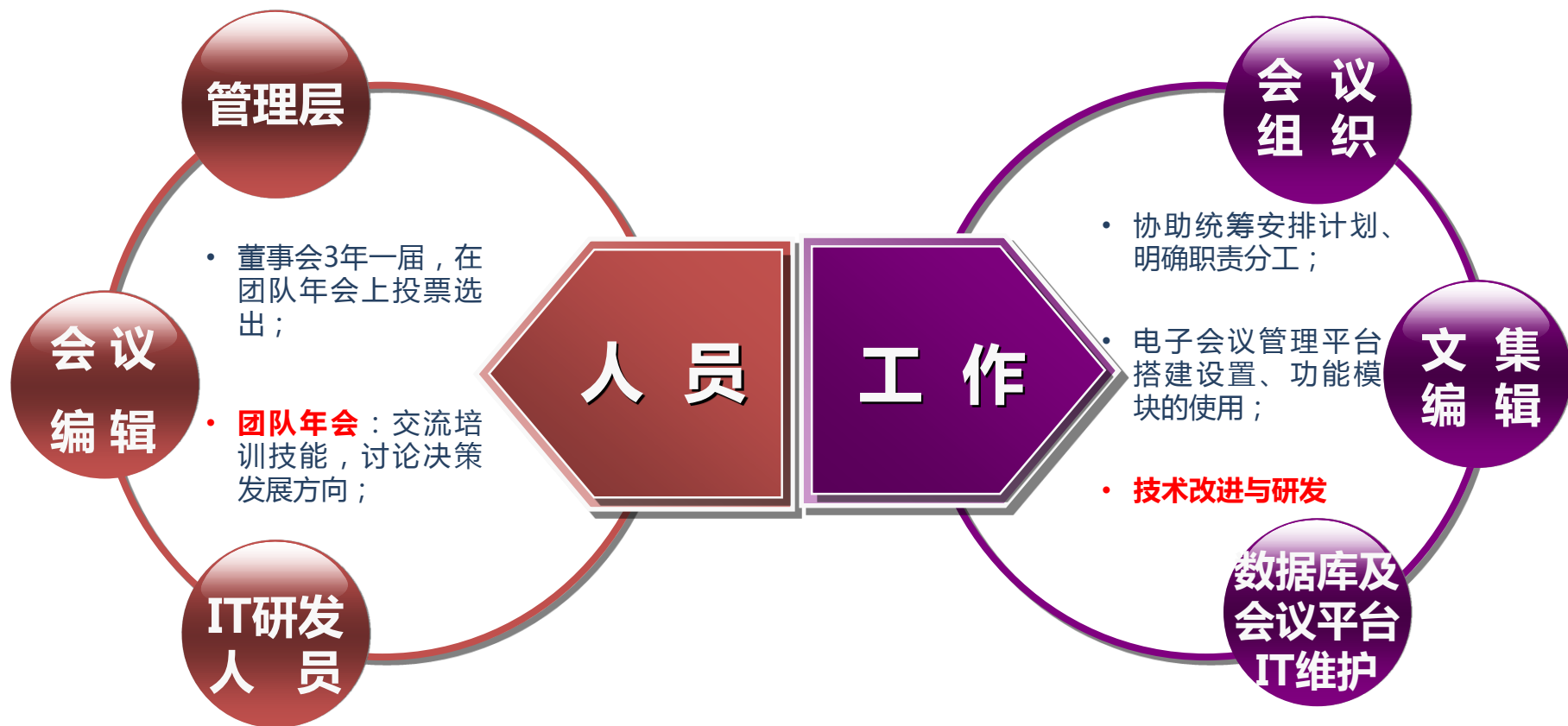
合 作 组



由各大加速器、高能物理实验室/研究所支持

联合加速器会议文集网站 (JACoW)

团 队



分工职责明确、专业技能、系统培训

联合加速器会议文集网站 (JACoW)

团 队



中国编辑： 闫和平 盛丽娜 赵宁



联合加速器会议文集网站 (JACoW)

网 站

www.jacow.org

The screenshot shows the JACoW.org website. At the top is a navigation bar with links: Home, Proceedings, for Authors, for Organizers, for JACoW Team, Tools, About, and Contacts. Below the navigation bar is the JACoW.org logo. The main content area is titled "Joint Accelerator Conferences Website". It contains a paragraph explaining the website's purpose and a table of participating conferences. To the right is a "JACoW News" section with a list of recent publications. At the bottom is an "Upcoming Conferences" section with three featured conference posters: IPAC'15, HIAT 2015, and ICALEPCS 2015.

JACoW.org

Home Proceedings for Authors for Organizers for JACoW Team Tools 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:

ABRW	CYCLOTRONS	EPAC	IBIC	LINAC
AFAC	DPAC	FEL	ICALEPCS	NA-PAC
BIW	ECRIS	HB	ICAP	PAC
COOL	EIC	HIAT	IPAC	PCaPAC

[How do I publish proceedings on JACoW?](#)

Also published at this site:

- Information about the JACoW collaboration
- Help for authors submitting work to JACoW conferences
- Help and tools for editors of conference proceedings and members of the JACoW Team
- IPAC Relations with Industry:
 - [Result of Questionnaire](#) distributed to IPAC'14 Industrial Exhibitors
 - [Future Accelerator Projects and Upgrades](#), IPAC'14 edition

JACoW News

2014 Dec 8:
Published [RuPAC'14](#), proceedings

2014 Oct 10:
Published [SRF'13](#), proceedings

2014 Jul 8:
Published [IPAC'14](#), proceedings

2014 Jun 12:
Published [CYCLOTRONS'13](#), proceedings

2014 Jun 11:
Published [CYCLOTRONS'06](#), proceedings

2014 May 30:
Published [CYCLOTRONS'09](#), proceedings

2014 May 9:
Published [CYCLOTRONS'06](#), proceedings

2014 May 8:
Published [CYCLOTRONS'04](#), proceedings

2014 Apr 15:
Published [CYCLOTRONS'78](#), proceedings

Upcoming Conferences

IPAC'15
Edinburgh, UK, 8-14 May 2015

HIAT 2015
Noboriyama, Japan, 7-11 Sep. 2015

ICALEPCS 2015
Melbourne, Australia, 17-23 Oct. 2015

[All Upcoming Conferences](#)

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by Thomas Schaefer

联合加速器会议文集网站 (JACoW)

JACoW.org

[Home](#)[Proceedings](#)[for Authors](#)[for Organizers](#)[for JACoW Team](#)[Tools](#)[About](#)[Contacts](#)

Select Conferences

ALL

ABDW

APAC

BIW

COOL

CYCLOTRONS

DIPAC

ECRIS

EPAC

FEL

HIAT

IBIC

ICALEPCS

ICAP

IPAC

LINAC

NA-PAC

PAC

PcAPAC

RuPAC

SAP

SRF

Choose search criteria

Author(s)

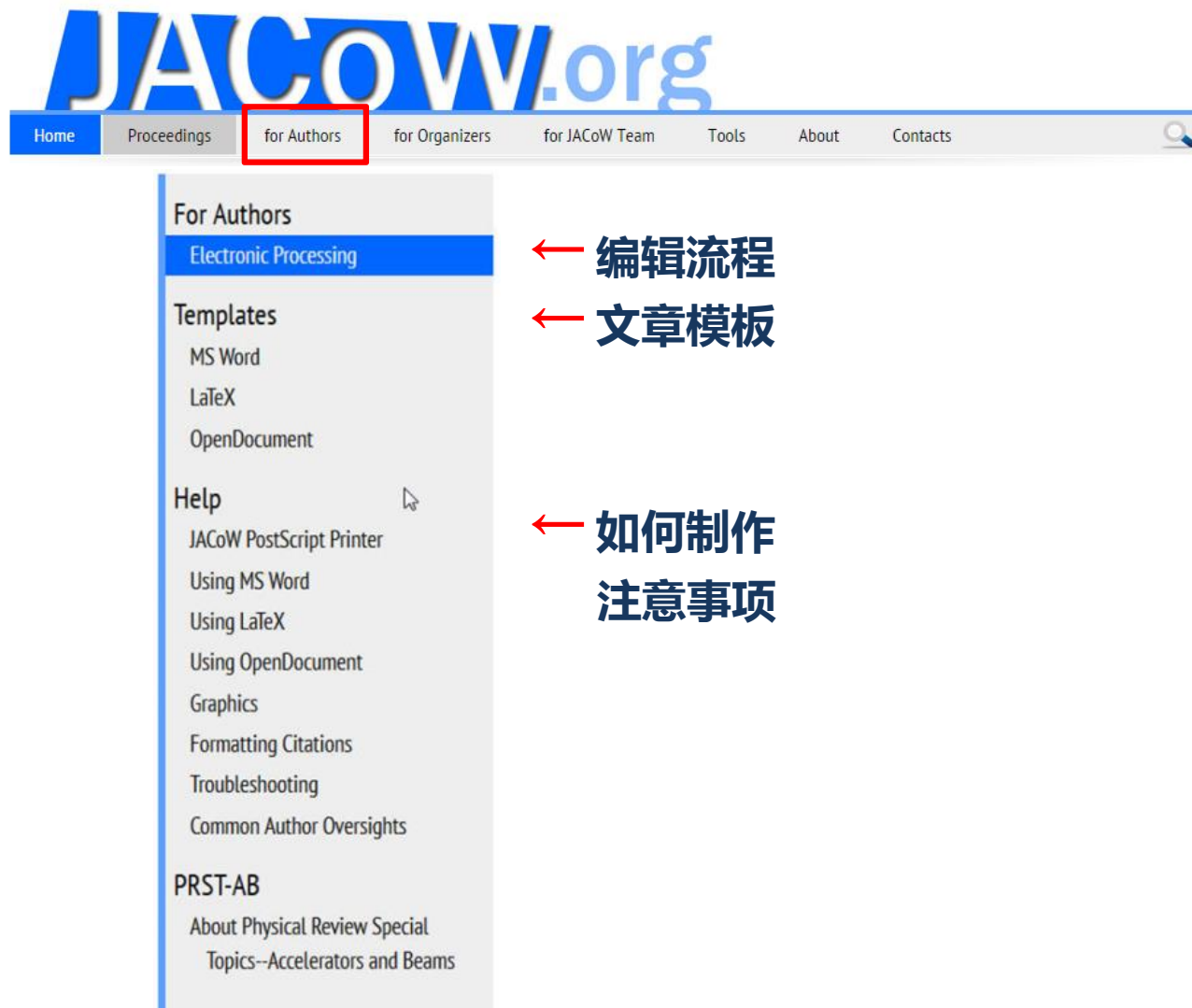
Title

Keyword

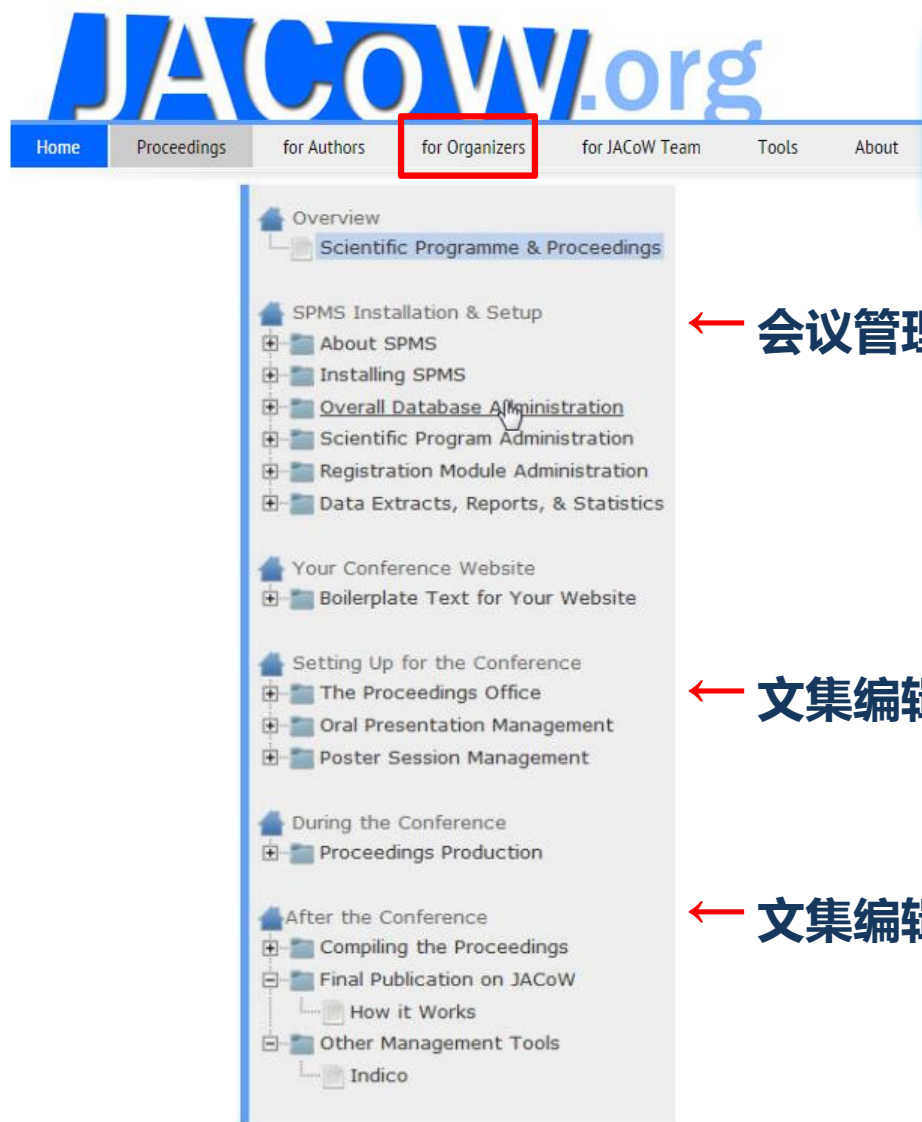
Text of paper

Search

联合加速器会议文集网站 (JACoW)



联合加速器会议文集网站 (JACoW)



会议需求与技术
文档、指南

← 会议管理系统安装与模块使用

← 文集编辑与报告管理办公室筹备

← 文集编辑与出版

JACoW 办会模式

■ 会议组织筹备计划

- **Who does what**, when, where, why, and how (and to whom)

■ 确定会议委员会及关键角色

■ 会议组织模块化：会议日程、工业、学生资助、社会活动、注册、文集.....

■ 清晰界定从会议准备、执行到文集出版等各项活动的具体内容

■ 技术平台：会议科学事务管理系统 (SPMS)

专业编辑软件 Acrobat/Pitstop/JSPS.....

联合加速器会议文集网站 (JACoW)

筹备计划表

Some Tentative Deadlines based on EPAC/IPAC Past Experience
(C = Conference minus number of months)

Actions	C-
Composition of OC/SPC decided	C-18 to 24
First SPC/OC meetings	C-20
Invitations to join SAB	C-19
SAB invited to submit proposals (via SPMS) for invited orals	C-17
First Conference Announcement sent to Industry (via SPMS)	C-15
SPC decides Main and Sub-classifications, & SPMS customization	C-14
OC approves SPC proposal for invited oral presentations	C-12
Invitations to invited speakers	C-12
Conference Website On-line (at best) with scientific programme	C-10
Mailing of Posters/Postcards using SPMS for addresses	C-10
Conference Announcement and Call for Papers via SPMS	C-9
Second Conference Announcement to Industry (via SPMS) with full information about exhibition registration package	C-9
Deadline for nominations for accelerator prizes	C-6
Conference Announcement to remind of abstract submission deadline	C-5.5
Deadline for Abstract Submission	C-5
Deadline "cheap" booth registration/deadline for payment	C-5
Set up server for paper upload	C-4.5
Invite Editorial Staff (Editors, Paper Reception, Poster Session Managers)	C-4
SPC Meeting: Select Contributed Orals, Re-classify if necessary, Decide Chairs	C-4
Invite Contributed Oral Speakers	C-4
Accept/Reject Contributions via SPMS, encourage registration	C-4
Set up a pc with all software required for Editors, and clone to several pcs	C-3
Write to all contributors to warn of deadline for registration	C-2.5
Deadline for "cheap" delegate registration	C-2
Set up server for paper upload, test and enable	C-2
Number posters into time and space (program codes) and enter into SPMS	C-2
Write to Contributors to announce program codes	C-2
Publish guidelines for submission of papers and enable submission	C-2
Clone software setup to all pcs to be installed in Proceedings Office	C-2
Prepare printed programme booklet	C-1.5
Programme to printer	C-1
Deadline for paper submission	C-5 days
Editors begin processing at venue	C-4 days
Conference	
Publish "pre-press" proceedings	C or C+7 days
One week "grace" for late paper submission and re-submissions	C+7 days
Publish proceedings on JACoW	C+3 weeks

联合加速器会议文集网站 (JACoW)

会议委员会与 JACoW



联合加速器会议文集网站 (JACoW)

JACoW & LOC

会前

会中

会后

- SPMS 数据库管理员
- 协调人/学术秘书
- 网络技术支持
- 编辑/校对
- 报告PPT编辑
- 会展管理人员
- 学生墙报分会组织

- SPMS会议管理员
- 编辑/编委会
- 作者接待员
- 报告管理员
- 注册管理员
- 注册处员工
- 会议网站管理员

联合加速器会议文集网站 (JACoW)

JACoW & LOC



岗位职责与工作手册
工作流程化 标准化

如何加入？

◆ 申请--董事会审批--加盟：

会议主办方向JACoW提出书面申请，并承诺：

- 1、在JACoW上发布至少3届会议文集
- 2、派编辑参加至少3届团队年会

◆ 服 务：

- ✓ 提供会议组织筹备计划与指导
- ✓ SPMS免费使用
- ✓ 培养专业编辑
 - 文章/报告编辑技能get & 专业编辑软件免费使用
- ✓ 邀请资深组会人员/编辑到会工作
- ✓ 制作发布摘要手册/电子文集
- ✓ IT区域支持维护与指导

The Website

Policies & Requirements for
Publishing on JACoW

How To Join

Long-Term Archival Policy

Legal and Privacy Statement

The Collaboration

The JACoW Collaboration

Team Members & Roles

Stakeholders

Charter

Goals of JACoW

Awards to the Collaboration

JACoW Conferences

Current and Upcoming

Past

会议科学事务管理系统(SPMS)简介

Scientific Programme Management System (SPMS)

会议事务管理电子化平台，由Oracle数据库和众多软件包整合而成

会议SPMS网站 – SPMS instance

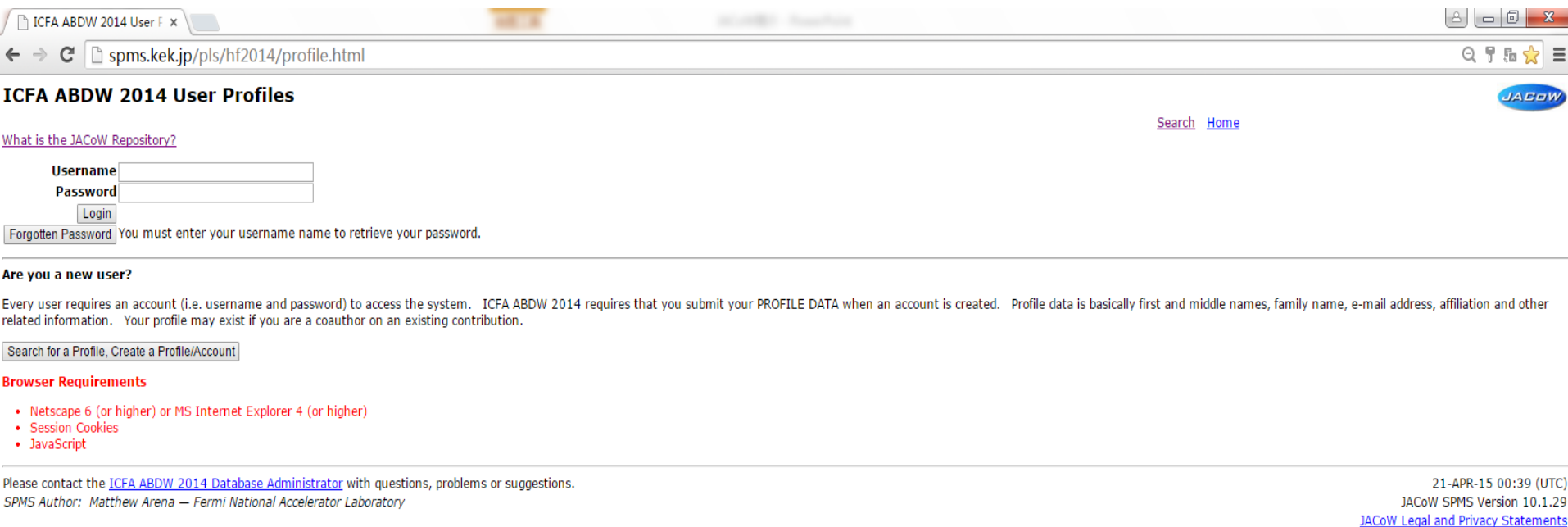
- ✓ 会议科学项目模块 Scientific Program Module
- ✓ 会议事务管理模块 Event Management Module
- ✓ 报表与数据提取 Reports and Data Extracts
- ✓ Email功能

会议科学事务管理系统(SPMS)

Scientific Programme Management System (SPMS)

会议事务管理电子化平台，由Oracle数据库和众多软件包整合而成

会议SPMS网站 – SPMS instance



The screenshot shows a web browser window with the address bar displaying 'spms.kek.jp/pls/hf2014/profile.html'. The page title is 'ICFA ABDW 2014 User Profiles'. On the right, there is a 'JACoW' logo and links for 'Search' and 'Home'. The main content area contains a login form with fields for 'Username' and 'Password', a 'Login' button, and a 'Forgotten Password' link with the text 'You must enter your username name to retrieve your password.' Below the login form, there is a section titled 'Are you a new user?' with a paragraph explaining that every user requires an account and that profile data is required for account creation. At the bottom, there is a 'Browser Requirements' section listing 'Netscape 6 (or higher) or MS Internet Explorer 4 (or higher)', 'Session Cookies', and 'JavaScript'. A footer section contains contact information for the 'ICFA ABDW 2014 Database Administrator' and the 'SPMS Author: Matthew Arena — Fermi National Accelerator Laboratory'. The footer also includes the date '21-APR-15 00:39 (UTC)', the version 'JACoW SPMS Version 10.1.29', and a link to 'JACoW Legal and Privacy Statements'.

ICFA ABDW 2014 User Profiles

[What is the JACoW Repository?](#)

[Search](#) [Home](#)

JACoW

Username

Password

Login

[Forgotten Password](#) You must enter your username name to retrieve your password.

Are you a new user?

Every user requires an account (i.e. username and password) to access the system. ICFA ABDW 2014 requires that you submit your PROFILE DATA when an account is created. Profile data is basically first and middle names, family name, e-mail address, affiliation and other related information. Your profile may exist if you are a coauthor on an existing contribution.

[Search for a Profile, Create a Profile/Account](#)

Browser Requirements

- Netscape 6 (or higher) or MS Internet Explorer 4 (or higher)
- Session Cookies
- JavaScript

Please contact the [ICFA ABDW 2014 Database Administrator](#) with questions, problems or suggestions.

SPMS Author: Matthew Arena — Fermi National Accelerator Laboratory

21-APR-15 00:39 (UTC)
JACoW SPMS Version 10.1.29
[JACoW Legal and Privacy Statements](#)

会议科学事务管理系统(SPMS)

系统管理与权限—SPMS instance

创建

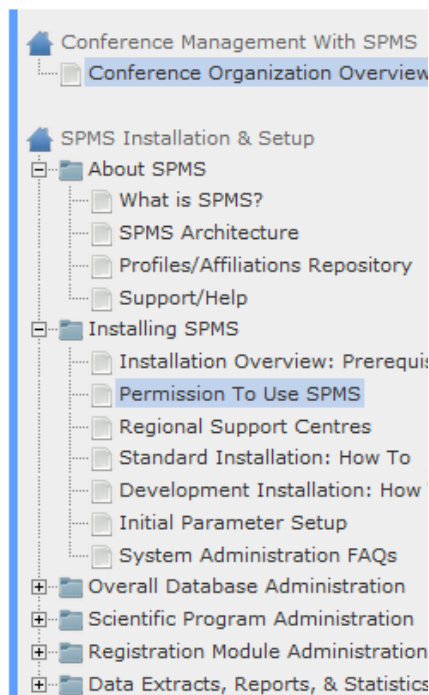
- 三大区域服务器
- 系统管理员

设置权限

- 会议管理员
- 会议设置职能授权

使用

- 各类人员功能界面不同
- 管理员调试功能模块



MICHIGAN STATE
UNIVERSITY

4 October 2013

Christine Petit-Jean-Genaz - JACoW Coordinator
CERN-BE
CH - 1211 Geneva 23

Volker R.W. Schaa - JACoW Chair
GSI Helmholtzzentrum für Schwerionenforschung GmbH
Planckstraße 1
64291 Darmstadt

Dear Christine and Volker,

As the International Organizing Committee Chair for the HB2014 Conference, to be held in East Lansing, Michigan on 10-14 November 2014, I would like to request permission to utilize the SPMS for the conference. I understand that:

- the data supplied and collected with the SPMS system will under no circumstances be used for any other purpose than in connection with the organization of the HB2014 conference
- **conference and non-conference announcements to the whole repository are strictly forbidden**
- the e-mail utility may be used normally only *once* to announce the conference to those profile/account owners contained in the relative mailing lists, and *once* following the conference to announce the publication of the proceedings at the JACoW site
- the data collected in connection with the conference will not be provided to any external body for any purpose
- following the publication of the conference proceedings and repatriation of the data to the central repository, the link to the central repository will be cut and there will be no further maintenance of the system by central support
- the email facility will not be used after the publication of the conference proceedings
- the profiles and account information generated by the conference will be of the same quality as the data already in the repository
- any software installed using JACoW licenses will be un-installed immediately after the conference

Thank you

Sincerely,


Yoshishige Yamazaki - HB2014 IOC Chair



Facility for
Rare Isotope
Beams

640 S Shaw Lane
East Lansing, MI
48824-1321

517-909-7796
yamazaki@frib.msu.edu

会议科学事务管理系统(SPMS)

系统管理与权限—SPMS instance

创建

- 三大区域服务器
- 系统管理员

设置权限

- 会议管理员
- 会议设置职能授权

使用

- 各类人员功能界面不同
- 管理员调试功能模块

Conference [User](#) [URLs](#) [Email](#) [Web Configuration](#) [SPMS Configuration](#) [Image URLs](#) [Registration](#) [Hotel Handling](#) [Experts/Referees](#) [PC](#) [Post Conference](#) [E-Dot Board](#)

Conference Title	LINAC 2016	The short name of your conference. It displays at the top of every page generated by the database.
Conference Location	East Lansing, Michigan, USA	Used in XML output.
Time Zone Offset	-1	The difference, in hours, between the conference location and the database location. Formula: (UTC offset at conference site) - (UTC offset at database site). Example: Conference time zone UTC-0800, DB time zone UTC-0600. (-8) - (-6) = -2. Example: Conference UTC+0530, DB UTC+0900. (5.5) - (9) = -3.5.
Conference Start Date	09/25/2016	The date of the first day of the conference. It controls the day-of-week popup list in session maintenance.
Conference Length in Days	6	Controls the popup list in the Session Maintenance screen.
Abstracts Submission Start Date	*** NO VALUE	This date will be used in the exports for the website (leave empty if not needed)
Abstracts Submission End Date	*** NO VALUE	This date will be used in the exports for the website (leave empty if not needed)
Submission of Contributions End Date	*** NO VALUE	Deadline for paper submission (files) for publication. This date will be used in the exports for the website
Opening of Delegate Registration	*** NO VALUE	This date will be used in the exports for the website (leave empty if not needed)
Early Registration Deadline for Delegates	*** NO VALUE	This date will be used in the exports for the website (leave empty if not needed)
Invitation Only Conference	No	Use the "Invitees" link to identify persons invited by the Conference to submit contributions and participate.
Auto Gen Program Code	Yes	Set to Yes to allow SPMS to generate the session portion of the program code. Set to No to manually enter the session ID.
Enable Automatic Poster ID Assignment	No	Allow SPMS to assign program codes to all posters. Disable these feature once the program codes are set in stone.
Poster Police	No	Conference Uses Poster Police

会议科学事务管理系统(SPMS)

系统管理与权限—SPMS instance

Privilege	Functional Role	Users
	Abstract QA	
	Associated Team Members (IT, Reg.)	
	Author Reception	Ning Zhao, IHEP (Remove)
	Co-opted Team Members	
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 - My Profile
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 - Paper Final QA
 - Platform Codes
 - Poster Police
 - Presentation File Combinations
 - Presentations Management
 - Processing Status Codes
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 - General
 - Data Extracts
 - Reports
 - Statistics
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 - Registration
 - Email
 - Payments and Invoices
 - Registration Reports
 - Setup & Maintenance
 - Visa Invitation Letters
 - Scientific Program Administration
 - Abstract Attributes
 - Abstract Reclassification
 - Classifications
 - Contribution Log Codes
 - Daily Events (for Program)
 - Generate Paper TOC Values
 - Location Codes
 - Presentation Type (Contributions)
 - Presentation Type (Sessions)
 - Profile Search/Edit
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1182	Print Edit Speakers Withdraw	Title: Accelerator physics study during the BEPCII luminosity enhancement Speaker: Yuan Zhang - Institute of High Energy Physics Accelerator Center Alternative Speakers: Chenghui Yu (IHEP, Beijing)	<ul style="list-style-type: none">• Abstract Updated [Qing Qin 31-MAR-15 21:21 (PRC)]• Abstract Created [Qing Qin 31-MAR-15 21:19 (PRC)]
1188	Print Edit Speakers Withdraw	Title: Progress on the High Luminosity LHC Project Speaker: Oliver Sim Brünig - European Organization for Nuclear Research Beams Department (BE) Alternative Speakers: Lucio Rossi (CERN, Geneva)	<ul style="list-style-type: none">• Abstract Created [Qing Qin 31-MAR-15 21:59 (PRC)]
1275	Print Edit Speakers Withdraw	Title: Commissioning of the SuperKEKB Speaker: Haruyo Koiso - High Energy Accelerator Research Organization Alternative Speakers:	<ul style="list-style-type: none">• Abstract Created [Qing Qin 02-APR-15 04:58 (PRC)]
1279	Print Edit Speakers Withdraw	Title: Progress on the PAL-XFEL Speaker: In Soo Ko - Pohang Accelerator Laboratory Alternative Speakers:	<ul style="list-style-type: none">• Abstract Created [Qing Qin 02-APR-15 05:19 (PRC)]

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SPMS Author: Matthew Arena — Fermi National Accelerator Laboratory

13-APR-15 09:
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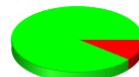
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- Proposed Presentation Chang
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- Sessions
- Statistics
- Table Of Contents
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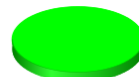
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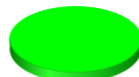
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September 17

17-Sep-12	16:40 – 18:00	Poster	Meeting Room 2
MOP2 — Poster Session			

Beam Dynamics in High-Intensity Circular Machines

MOP201 **Undulator Radiation Inside a Dielectric Waveguide** – A. Kotanlyan (YSU), A.A. Saharian (YSU)

We investigate the radiation from a charge moving along a helical trajectory around a dielectric cylinder immersed in a homogeneous medium. The radiation intensity in the exterior medium at large distances from the cylinder has been considered previously and here we are mainly concerned with the radiation propagating inside the cylinder. The expressions for the bound modes of the radiation field are derived in both interior and exterior regions. We investigate the relative contributions of the bound modes and the modes propagating at large distances from the cylinder to the total radiation intensity. Numerical examples are given for a dielectric cylinder in the vacuum. It is shown that the presence of the cylinder can lead to the considerable increase of the radiation intensity. The radiated energy inside the cylinder is redistributed among the cylinder modes and, as a result, the corresponding spectrum differs significantly from the homogeneous medium or free-space results. The radiation emitted on the waveguide modes propagates inside the cylinder and the waveguide serves as a natural collector for the radiation.

Beam Dynamics in High-Intensity Linacs

MOP202 **Thermal effects in the transport of initially inhomogeneous beams** – R. Pakter (IF-UFRGS), A. Endler, E.B. Rizzato, E.G. Souza (IF-UFRGS)

We investigate the role of the temperature in the onset of singularities and the consequent breakdown of the fluid description in the transport of continuous, intense, inhomogeneous charged particle beams. In the cold beam limit, this system is shown to present wave breaking which is responsible for particle ejection from the beam core and formation of halo. Here, we develop a Lagrangian fluid model for the beam evolution that incorporates thermal effects using an adiabatic approximation. It is found that below a certain temperature threshold a different type of singularity that is responsible for the breakdown of the fluid description is present. Namely, a singular growth of the pressure gradient. As the threshold temperature is approached, however, the time for the occurrence of the singularity diverges and is found to be absent above it. In other words, the fluid model predicts the existence of a critical temperature that separates two different dynamical phases: a nonadiabatic transport at lower temperatures and a completely adiabatic evolution at higher temperatures. These findings are verified with the aid of self-consistent N-particle simulations.

12

HB 2012 — Beijing, China, September 17–21, 2012

Beam Diagnostics and Instrumentation for High-Intensity Beam

MOP203 **Bunch to Bunch Beam Loss Diagnostics with Diamond Detectors at the LHC** – M. Hempel (BTU), T. Baer (University of Hamburg), S. Bart Pedersen, B. Dehning, E. Effinger, E. Griesmayer, A. Lechner, R. Schmidt (CERN), W. Lohmann (DESY)

A main challenge in the operation with high luminosity beams is managing beam losses that risk to quench magnets or even damage equipment. There are various sources of beam losses, such as losses related to injection, due to beam instabilities and UFOs (Unidentified Falling Objects). Mostly surprising in the first years of LHC operation was the observation of UFOs. They are believed to be dust particles with a typical size of 1–100 μm , which lead to beam losses with a duration of about ten revolutions when they fall into the beam. 3600 BLMs (Beam Loss Monitors) are installed around the LHC ring, allowing to determinate the accurate location of UFOs. The time resolution of the BLMs is 40 μs (half a turn revolution). A measurement of the beam losses with a time resolution better than the bunch spacing of 50 ns is crucial to understand loss mechanisms. Diamond sensors are able to provide such diagnostics and perform particle counting with ns time resolution. In this paper, we present measurements of various types of beam losses (in particular UFOs) with diamond detectors. We also compare measurements of UFO induced beam losses around the LHC ring with results from MadX simulations.

MOP204 **A Method to Measure the Incoherent Synchrotron Frequencies in Bunches** – O. Chorniy (GSI), H. Reeg (GSI)

The method of measuring the incoherent synchrotron frequencies in a stationary bunch is presented. It can be shown that by measuring the local current at a fixed coordinate in RF bucket the corresponding incoherent synchrotron frequency can be obtained. Test calculations were done using simulation data where beam loading and space charge were included. The incoherent frequencies obtained with method are in a good agreement with theory. In real experiment, the incoherent frequencies were determined from bunch profiles recorded in the SIS18 with low intensity beam at injection energy. Bunch profiles were measured with a new Fast Current Transformer which has a relatively broad frequency range. The profiles were recorded using 8 bit resolution oscilloscope. The frequency spectra of local current fluctuation at different longitudinal positions were obtained numerically. The strongest lines in these spectra were at positions of theoretically expected incoherent frequencies. In this paper the method is described in details, the comparison of incoherent frequencies obtained from the simulation and measurement data with theoretical solutions is shown.

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13

September 17

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Abstract

Many conference series have adopted the same standards for electronic publication and have joined the Joint Accelerator Conferences Website (JACoW) collaboration for the publication of their proceedings. This document describes the common requirements for the submission of papers to these conferences. Please consult individual conference information for page limits, method of electronic submission, etc. It is not intended that this should be a tutorial in word processing; the aim is to explain the particular requirements for electronic publication at www.jacow.org.

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General Layout

These instructions are a typical implementation of the requirements. Manuscripts should have:

- Either A4 (21.0 cm × 29.7 cm; 8.27 in × 11.69 in) or US letter size (21.6 cm × 27.9 cm; 8.5 in × 11.0 in) paper.
- *Single-spaced* text in two columns of 82.5 mm (3.25 in) with 5.3 mm (0.2 in) separation. More recent versions of Word have a default spacing of 1.5 lines; authors must change this to 1 line.
- The text located within the margins specified in Table 1.

Table 1: Margin Specifications

Margin	A4 Paper	US Letter Paper
Top	37 mm (1.46 in)	0.75 in (19 mm)
Bottom	19 mm (0.75 in)	0.75 in (19 mm)
Left	20 mm (0.79 in)	0.79 in (20 mm)
Right	20 mm (0.79 in)	1.02 in (26 mm)

The layout of the text on the page is illustrated in Fig. 1. Note that the paper's title and the author list should be the width of the full page. Tables and figures may span the whole 170 mm page width, if desired (see Fig. 2), but if they span both columns, they should be placed at either the top or bottom of a page to ensure proper flow of the text (Word templates only: the text should flow from top to bottom in each column).

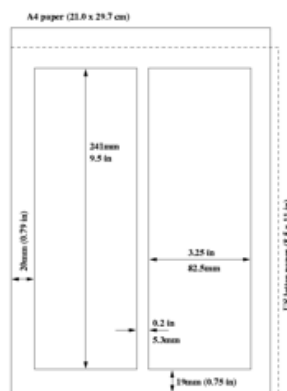


Figure 1: Layout of papers.

Fonts

In order to produce good Adobe Acrobat PDF files, authors using a LaTeX template are asked to use only Times (in roman [standard], bold or italic) and symbols from the standard set of fonts. In Word use only Symbol and, depending on your platform, Times or Times New Roman fonts in standard, bold or italic form.

Title and Author List

The title should use 14 pt bold uppercase letters and be centred on the page. Individual letters may be lowercased to avoid misinterpretation (e.g., *mW*, *MW*). To include a funding support statement, put an asterisk after the title and the support text at the bottom of the first column on page 1—in Word, use a text box; in LaTeX, use `\thanks`.



Figure 2: Example of a full-width figure showing the JACoW Team at their annual meeting in 2012. This figure has a multi-line caption that has to be justified rather than centred.

The names of authors, their organizations/affiliations and mailing addresses should be grouped by affiliation and listed in 12 pt upper- and lowercase letters. The name of the submitting or primary author should be first, followed by the co-authors, alphabetically by affiliation.

Section Headings

Section headings should not be numbered. They should use 12 pt bold uppercase letters and be centred in the column. All section headings should appear directly above the text—there should never be a column break between a heading and the following paragraph.

Subsection Headings

Subsection headings should not be numbered. They should use 12 pt italic letters and be left aligned in the column. Subsection headings use Title Case (or Initial Caps) and should appear directly above the text—there should never be a column break between a subheading and the following paragraph.

Third-level Headings should use 10 pt bold letters and be run into the paragraph text. In LaTeX these headings are created with LaTeX's `\subsection` command. In the Word templates authors must bold the heading text themselves. This heading should be used sparingly. See Table 2 for its style details.

Paragraph Text

Paragraphs should use 10 pt font and be justified (touch each side) in the column. The beginning of each paragraph should be indented approximately 3 mm (0.13 in). The last line of a paragraph should not be printed by itself at the beginning of a column nor should the first line of a paragraph be printed by itself at the end of a column.

Figures, Tables and Equations

Place figures and tables as close to their place of mention as possible. Lettering in figures and tables should be large enough to reproduce clearly. Use of non-approved fonts in figures can lead to problems when the files are processed. LaTeX users should be sure to use non-bitmapped versions of Computer Modern fonts in equations (Type 1 PostScript or OpenType fonts are required. Their use is described in the LaTeX help pages [1]).

Each figure and table must be numbered in ascending order (1, 2, 3, etc.) throughout the paper. Figure captions (10 pt font) are placed below figures, and table captions are placed above tables. Single-line captions are centred in the column, while captions that span more than one line should be justified. The LaTeX template uses the `'booktabs'` package to format tables.

A simple way to introduce figures into a Word document is to place them inside a table that has no borders. This is done in Word as described below.

Note: If the figure spans both columns, do all steps. If the figure is contained in a single column, start at step 5.

1. Insert a continuous section break.
2. Insert two empty lines (makes later editing easier).
3. Insert another continuous section break.
4. Click between the two section breaks and Page Layout → Columns → Single.
5. Insert → Table select a one-column, two-row table.
6. Paste the figure in the first row of the table, and adjust the size as appropriate.
7. Paste/Type the caption in the second row and apply the appropriate figure caption style.

*Work supported by ... THIS INFORMATION MUST BE WITHIN THE TEXT & COLUMN MARGINS
#ccc@aps.anl.gov

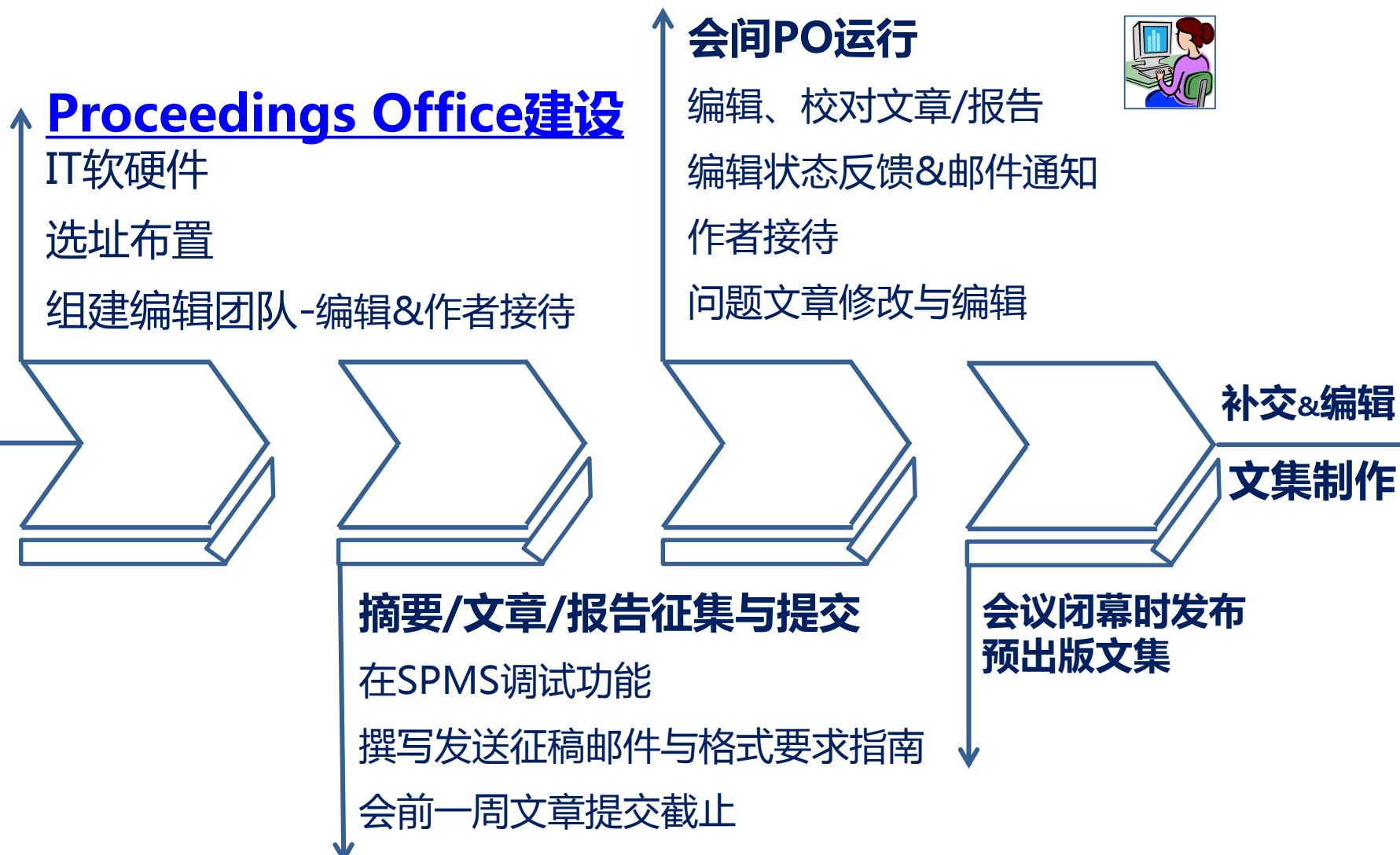
会议文集编纂

模式与流程

- ◆ 收录摘要、文章、报告
- ◆ 提供标准化的文章模板
(Word/LaTex)
- ◆ 设立文集办公室
- ◆ 编辑工作与会议同步完成
- ◆ 文集编辑&制作团队
- ◆ 专业编辑软件-PDF文档编辑



会议文集编纂



会议文集编纂

Proceedings Office建设

IT软硬件

选址布置

组建编辑团队-编辑&作者接待

会间PO运行

编辑、校对文章/报告

编辑状态反馈&邮件通知

作者接待

问题反馈



同步 即时 高效 易查

补交&编辑

文集制作

会议闭幕时发布
预出版文集

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Paper successfully processed											
Assigned to an Editor											
Ready for processing											
MOI1A01	MOP207	MOP221	MOP243	MOP257	TUO1B05	TUO3B04	WEO1B02	WEO3A04	THO1A02	THO1C06	THO3C03
MOI1A02	MOP209	MOP222	MOP244	MOP258	TUO1C01	TUO3B05	WEO1B03	WEO3B01	THO1A03	THO1D01	THO3C04
MOI1B01	MOP210	MOP223	MOP245	MOP260	TUO1C02	TUO3C01	WEO1B04	WEO3B02	THO1A04	THO3A01	THO3C05
MOI1B02	MOP211	MOP226	MOP246	MOP261	TUO1C03	TUO3C02	WEO1B05	WEO3B03	THO1B01	THO3A02	THO3C06
MOI1B03	MOP212	MOP229	MOP247	MOP262	TUO1C04	TUO3C03	WEO1C01	WEO3B04	THO1B02	THO3A03	FRO1A01
MOI1C01	MOP213	MOP231	MOP248	TUO1A01	TUO1C05	TUO3C04	WEO1C02	WEO3B05	THO1B03	THO3A04	FRO1A02
MOI1C02	MOP214	MOP232	MOP249	TUO1A02	TUO1C06	TUO3C05	WEO1C03	WEO3C01	THO1B04	THO3B01	FRO1A03
MOI1C03	MOP215	MOP233	MOP250	TUO1A03	TUO3A01	TUO3C06	WEO1C04	WEO3C02	THO1B05	THO3B02	FRO1B01
MOP201	MOP216	MOP235	MOP252	TUO1A04	TUO3A02	WEO1A01	WEO1C05	WEO3C03	THO1C01	THO3B03	FRO1B02
MOP203	MOP217	MOP238	MOP253	TUO1B01	TUO3A03	WEO1A02	WEO1C06	WEO3C04	THO1C02	THO3B04	
MOP204	MOP218	MOP240	MOP254	TUO1B02	TUO3B01	WEO1A03	WEO3A01	WEO3C05	THO1C03	THO3B05	
MOP205	MOP219	MOP241	MOP255	TUO1B03	TUO3B02	WEO1A04	WEO3A02	WEO3C06	THO1C04	THO3C01	
MOP206	MOP220	MOP242	MOP256	TUO1B04	TUO3B03	WEO1B01	WEO3A03	THO1A01	THO1C05	THO3C02	

会议文集编纂

文集办公室

◆ IT :

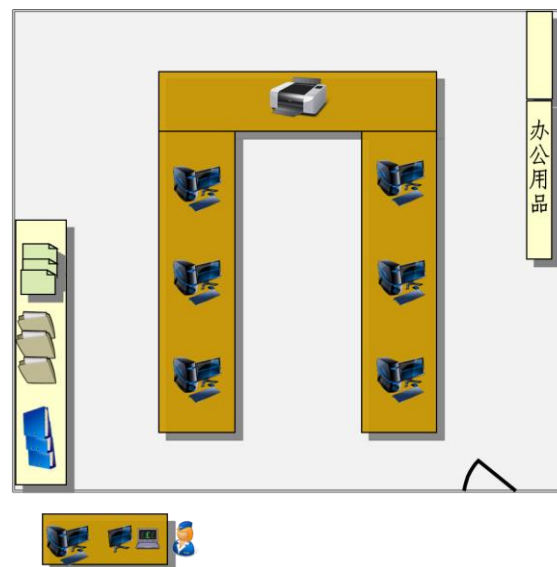
- 文章服务器：PSI File Server
- 租赁编辑、装配系统与编辑软件
- 专业的IT技术人员

◆ 编辑团队

- 角色：负责人、编辑、作者接待员
- 估算人员需求（以提交摘要的数量测算）：
 - 预编辑（会前完成80%）：熟练编辑35篇/人
 - 会间编辑：熟练编辑20篇/人/天，新手5-8篇/人/天
 - 文章校对：80%提交文章编辑完成，开始QA
 - 作者接待：200人以内会议1人，200-500规模2人.....
- 费用：包会间食宿，旅费自理

◆ 办公室选址布置

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未来会议组织模式的探索

未来会议组织模式探索

主办会议情况

名称	规模	主办单位	会议主席	类型	使用功能	PO	文章
HB2012	170	IHEP	王九庆 唐靖宇	国际	注册、摘要手册、文章/ 报告编辑、文集	6	140
SAP2014	80	清华&IHEP	唐传祥 秦 庆	国内	摘要、文章编辑、文集	3	38
HF2014	100	IHEP	秦 庆 周为仁	国际	摘要、文章编辑、文集	4	58

- SPMS使用模块：注册、摘要、文集编辑出版、报告管理、墙报管理
未使用模块：SPC遴选报告、专家评审、付费、酒店、会展管理
- HB2012 邀请JACoW资深专家到会工作、培训，HF2014自主培训
- IHEP团队：本地IT技术支持、4名编辑、1名作者接待

未来会议组织模式探索

现行模式



铁路警察，各管一段！靠会议主席监督协调筹备进展

学术秘书不能真正发挥作用，无协调安排会议日程的专业人员；

会场/分组会议组织混乱，会前临时抓人，会务低效率；

缺报告/墙报管理人员（团队）； 会间PO变会务办公室

未来会议组织模式探索

好的会议组织



**系统、工具解决技
术和流程问题**

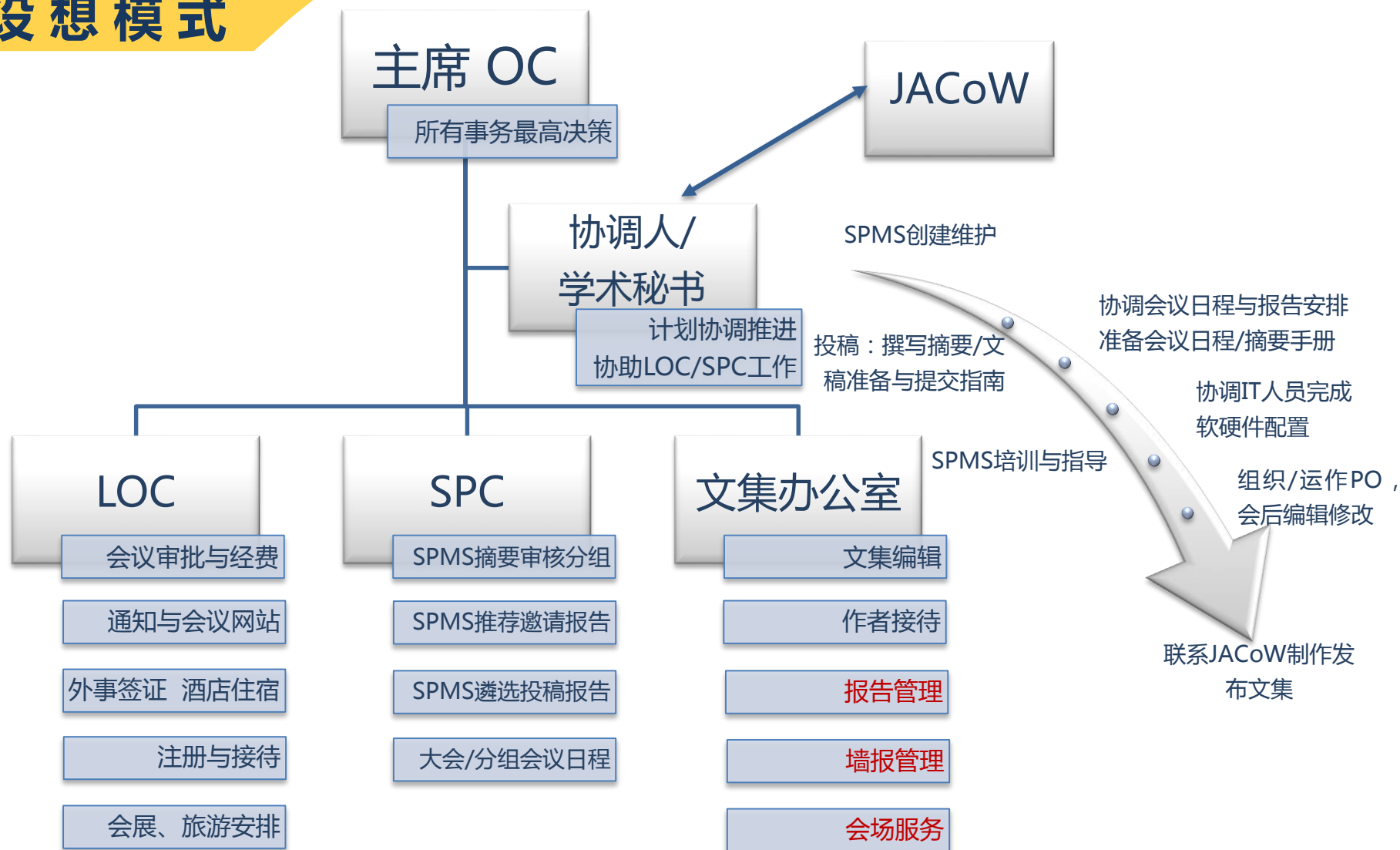


协调人的全局掌控：
清晰的思路与人员分配，
解决组织运作问题



未来会议组织模式探索

设想模式



未来会议组织模式探索

几点设想

◆ 国内会议如何与国际接轨？

- 中国粒子加速器学会加速器物理学术交流会（SAP）是一次有益的尝试，成为第二个加盟 JACoW 的区域性系列会议，得到 JACoW 的鼓励与重视
- RuPAC 的典范 CPAC 的良好基础
- 会议组办与文集编辑标准化

◆ 组建本地 JACoW 团队：

- IT...SPMS...编辑...会务组织....文集制作
- 稳定专业、投入度高的工作团队，提供高水准服务



未来会议组织模式探索

29th International Linear Accelerator Conference LINAC18

- 2年一次，JACoW系列会议，~300人
- 委员会：
 - 国际组委会（IOC）、本地组委会（LOC）、科学事务委员会（SPC）
- 报告类型：邀请报告（IO）、投稿报告（PO）、墙报（P）
- 赞助商展会 和 学生墙报分会

会议	注册	参会	文章	报告	JACoW编辑/顾问	IT/SPMS
LINAC12	\	312	333	85	4	2
LINAC14	466	338	359	\	6	2

未来会议组织模式探索

29th International Linear Accelerator Conference LINAC18

- 组织成立委员会、关键角色部分负责人

Linac16 LOC

- IOC: Yoshishige Yamazaki, MSU
- SPC: Alberto Facco, LNL/INFN
- LOC: Yan Zhang, MSU
- Consultant: Yong Ho Chin and/or Masanori Ikegami, KEK
- Outing and Tour: Chris Compton, MSU
- Editing team: Sheng Peng, MSU
- Network and computer: Jay Kusler, MSU
- Registration: Amy McCausey, MSU
- Secretary: Janell Kebler, MSU
- Companion Program:

未来会议组织模式探索

29th International Linear Accelerator Conference LINAC18

• 筹备关键日期计划

Draft Date

- Request IOC and PAC members to recommend invited papers, November 1, 2015.
- Recommendation deadline, December 31, 2015
- Participant nomination request to IOC members, January 1, 2016
- The 1st PAC meeting to select invited papers, someday in January, 2016.
- Abstract submission opens, February 1, 2016.
- Abstract submission deadline, April 16 (depends upon the date of the 2nd PC meeting), 2016
- Registration opens, April 26, 2016
- The 2nd PAC meeting to select oral papers (maybe at IPAC place, during or just before/after IPAC, depending upon the date of IPAC)
- Hotel registration deadline, July 30, 2016.
- Registration deadline, August 13, 2016.
- Paper submission deadline, September 23, 2016.
- Welcome reception, September 25, 2016.
- Conference begins, September 26, 2016.
- Half-day outing and dinner, September 28, 2016
- Conference banquet, September 29, 2016.
- Tour, September 30, 2016.



Facility for Rare Isotope Beams
U.S. Department of Energy Office of Science
Michigan State University

Y. Zhang, Linac2016 Prep, IPAC 2013 IOC, Slide 15

总 结

- JACoW和SPMS是加速器界国际会议组织和文集编辑平台，已被加速器界广泛接受并成为主流；
- JACoW拥有专业、稳定的团队，先进的会议组办平台与工具，在国际各知名实验室的大力支持下，为本领域国际会议提供服务；
- 为今后中国加速器会议与国际接轨，提供可能的途径；
- 通过4年来的理论学习与实践摸索，我们已有一定的基础，并已经开始了良好的尝试。

Thank you!

Question or Suggestion & Discussion are welcome