MT27 Program Book

Hybrid Conference: On-site and On-line

Hosted by

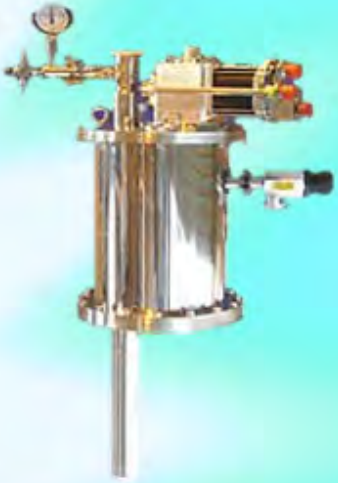
Cryogenics and Superconductivity Society of Japan

Co-hosted by

日本学術会議
SCIENCE COUNCIL OF JAPAN

IEEJ
The Institute of Electrical Engineers of Japan

Beyond Imagination



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http://www.jecctorisha.co.jp/

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MT-28
International Conference on **Magnet Technology**

10 – 15 September 2023
Aix-en-Provence, France

The International Conference on Magnet Technology is coming back to France. It is in the historical city of Aix-en-Provence, the birthplace of Post-Impressionist painter Paul Cézanne, where the world-leading experts on magnet technology will convene to present the latest progress in all aspects of magnet science, technology and applications.

A scientific and industrial exhibition will display industry, research laboratories and institutions active in the field.

The conference is hosted by the ITER Organization **in collaboration with the CEA**. At ITER, 35 Nations are collaborating in building the largest fusion device ever built using the latest superconducting magnet technology.

WELCOME TO MT27 (HYBRID CONFERENCE: ON-SITE AND ON-LINE)

It is our pleasure to welcome you at the 27th International Conference on Magnet Technology (MT27) which is held at Fukuoka International Congress Center, Fukuoka, Japan and online from November 15 to 19, 2021.

MT27 is the third MT in Japan after MT18 (Morioka, 2003) and MT11 (Tsukuba, 1989). This time the conference is co-hosted by the Cryogenics and Superconductivity Society in Japan (CSSJ), the Science Council of Japan (SCJ), and The Institute of Electrical Engineers of Japan (IEEJ).

After careful consideration on the conference format under the influence of global impact of COVID-19, MT27 is in the hybrid format to allow participants who are unable to attend the onsite from across the globe. The conference program has been arranged considering the time difference on the globe. On the virtual platform, the conference period will be extended and the participants can continue on-demand viewing and on-line discussion. Our priority is the health and safety of the participants and staffs.

MT27 sets its theme as “Innovation in Superconducting Magnet Technology.” Five plenary talks address advances in superconducting magnet technologies including Ultra-High-Field NMR Magnets, Radiation Therapy Systems, Muon Colliders, JT-60SA Superconducting Magnets, and Railway Applications. Special session “Lesson learned” is organized to share the knowledge obtained in a history of superconducting devises such as accelerator, fusion, NMR/MRI, high field magnet and so on. As lessons based on the operation and the troubles are not so accessible in spite of those importance, this session focuses on those quite important lessons learned in HTS and LTS devices. Six experts from fusion, accelerator, high field magnet communities are invited. In the Young Scientist Plenary Session, six invited Young Scientists introduce their research in seven minutes.

We hope that all the participants enjoy the conference.

On behalf of MT27 organization,

Hitoshi Kitaguchi, Chair of MT27

HOST

Cryogenics and Superconductivity Society of Japan (CSSJ)

Co-host

Science Council of Japan (SCJ)

The Institute of Electrical Engineers of Japan

SUPPORTERS

IEEE Council on Superconductivity

Fukuoka City

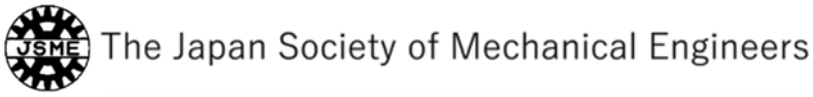
Fukuoka City Science Museum

Fukuoka Prefecture

The Japan Society of Applied Physics

The Physical Society of Japan

The Japan Society of Mechanical Engineers



The Japan Society of Vacuum and Surface Science

The Japan Society of Refrigerating and Air Conditioning Engineers

SPONSORS

These supporting organizations significantly enhance the Conference through their participation.

The MT27 Organizing Committee wishes to express its appreciation to the following:

Fujikura Ltd.
www.fujikura.com

Fukuoka Institute of Technology
/www.fit.ac.jp/en/

The IEEE Council on Superconductivity
(Special Sponsor)
https://ieeecsc.org/

Institute for Materials Research, Tohoku University
(Silver Sponsor)
www.imr.tohoku.ac.jp/en/

Kiswire Advanced Technology Co., Ltd.
www.kiswire-kat.com

Research Institute of Superconductor Science and Systems, Kyushu University (Bronze Sponsor)
www.sc.kyushu-u.ac.jp/index-j.html

Tesla Engineering Ltd
www.tesla.co.uk

Toshiba Energy Systems & Solutions Corporation
www.toshiba-energy.com/en/index.htm

CONFERENCE ORGANIZATION

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Mark Bird, USA (NHMFL)

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Toru Ogitsu (KEK)

Sangjun Oh (National Fusion Research Institute)

Michael Parizh (GE)

Lucio Rossi (U. of Milano / INFN / CERN)

Thierry Schild (ITER)

Carmine Senatore (U. of Geneva)

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	Luisa Chiesa (TUFTS Univ.)
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Shuma KAWABATA (Kagoshima U.)
Hitoshi MARUYAMA (Kyuhen Co., Inc.)
Takumi SUZUKI (Kyushu U.)
Masaru KIUCHI (Kyushu Institute of Tech.)
Kazuhiro KAJIKAWA (Sanyo-Onoda City University)

IEEE AWARDS

The following IEEE Awards will be presented from 9:30am (JST) before the poster session (on-site) on Thursday, November 18, 2021:

The description of the Awards and past honorees can be found at www.ieeecsc.org/awards.

The IEEE Award for Continuing and Significant Contributions in the Field of Superconductivity (Large Scale), presented to Prof. Neil Mitchell, ITER Organization, France.

Prof. Neil Mitchell

Citation

For continuing and significant contributions in the field of largescale applications of superconductivity, in particular:

- for leadership over 30 years of magnet design, research and development, procurement, manufacturing and testing of the ITER magnets, a system of unprecedented size, weight and stored energy,
- for critical contributions to all aspects of Nb_3Sn CICC magnet technology, including the development of new analysis techniques for mechanical, thermal and electrical behavior of large superconducting cables,
- for promoting superconducting technology internationally through worldwide collaborations and organization of scientific events.

The IEEE Dr. James Wong Award for Continuing and Significant Contributions to Applied Superconductivity Materials Technology, presented to Dr. Amalia Ballarino, CERN, Switzerland.

Dr. Amalia Ballarino

Citation

For continuing and significant contributions in the field of superconductivity materials research, in particular:

- for leading successful R&D programs that establish a winning role for HTS and MgB_2 superconductors in accelerator applications, the success of which has led to their general acceptance,
- for piloting the development of MgB_2 wire suitable for cabling and its incorporation into a multi-kA power transmission system operating at 25 K, and for directing the project to industrialize eight such systems for which over 1000 km of wire have been produced,
- for promoting fruitful cooperation between research and industry,
- for launching R&D activity based on the use of superconductors (Nb-Ti, Nb_3Sn, MgB_2 and HTS) for future particle accelerators.

IEEE CSC Graduate Study Fellowship in Applied Superconductivity

Class of 2021:

Thanatheepan Balachandran, University of Illinois at Urbana Champaign	Large Scale
Marco Colangelo, MIT	Electronics
José Ferradas Troitino, University of Geneva	Large Scale
S. Imam Hossain, Florida State University	Materials
Alessandro Miano, University of Naples “Federico II”	Electronics
Hongye Zhang, University of Edinburgh	Materials

In addition to IEEE awards, the MT27 Outstanding Presentation Award, that are given to student and/or young (no more than 35 years old) participants, will be selected during the conference and presented in the Conference Closing session.

PLENARY SPEAKERS

Tuesday, November 16, 2021, 15:30 – 16:15JST

Robert Herzog (Bruker, Switzerland)

Topic: Commercial Ultra-High-Field NMR Magnets with HTS Conductors

Wednesday, November 17, 2021, 14:45 – 15:30JST

Eric Forton (IBA – Ion Beam Applications, Belgium)

Topic: Radiation Therapy Systems

Thursday, November 18, 2021, 14:00 – 14:45JST

Mark Palmer (BNL, USA)

Topic: Muon Colliders and Their Magnet Technology Needs

Thursday, November 18, 2021, 14:45 – 15:30JST

Haruyuki Murakami (QST, Japan)

Topic: Overview of Construction and First Commissioning Results of JT-60SA Superconducting Magnets

Friday, November 19, 2021, 14:00 – 14:45JST

Masaru Tomita (RTRI, Japan)

Topic: Magnet Technology for Train

YOUNG SCIENTIST PLENARY SPEAKERS

Wednesday, November 17, 2021, 13:35 – 14:35JST

KOSSE, Jaap (PSI)

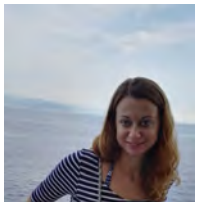
Title: A circular economy using superconductors: magnetic density Separation

BROUWER, Lucas (LBNL)

Title: Coupling superconducting magnet technology with large momentum acceptance beamlines to enable lightweight, high performance gantries for ion beam cancer therapy

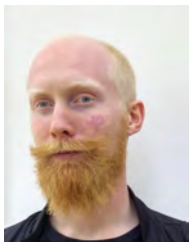
TAKEDA, Yasuaki (NIMS)

Title: HTS Superconducting Joint for Persistent Current Mode Magnets



CAIFFI, Barbara (INFN)

Title: Nb_3Sn: beyond NbTi, for moving beyond the Standard Model



ROMANELLI, Gherardo (ENEA)

Title: Tokamaking, some reflections and afterthoughts

LOUZGUITI, Alexandre (CEA)

Title: The need for system-oriented approaches for complex magnet design and operation.

SPECIAL SESSION “LESSON LEARNED”

Wednesday, November 17, 2021, 18:45 - 20:45JST

The session moderator: Prof. Pierluigi Bruzzone, PSI, Switzerland,
Prof. Satoshi Awaji, Tohoku University, Japan

It is quite important to share the knowledge obtained in a history of superconducting devises such as accelerator, fusion, NMR/MRI, high field magnet and so on. Most improvements and achievements can be found in the literatures. On the other hand, lessons based on the operation and the troubles are not so accessible in spite of those importance. This session focuses on those quite important lessons learned in HTS and LTS devices. Six experts from fusion, accelerator, high field magnet communities are invited.

Speakers

1. Pierluigi Bruzzone (PSI)
   Introduction

2. Neil Mitchell (ITER Organization)
   Successes & Failures in Design Solutions During the 30 Year Life of ITER

3. Stephen Gourlay (LBNL)
   Lessons Learned in the Development of Accelerator Magnets based on Nb3Sn and HTS

4. Ezio Todesco (CERN)
   Lessons learnt in HL-LHC interaction region superconducting magnets: two case studies

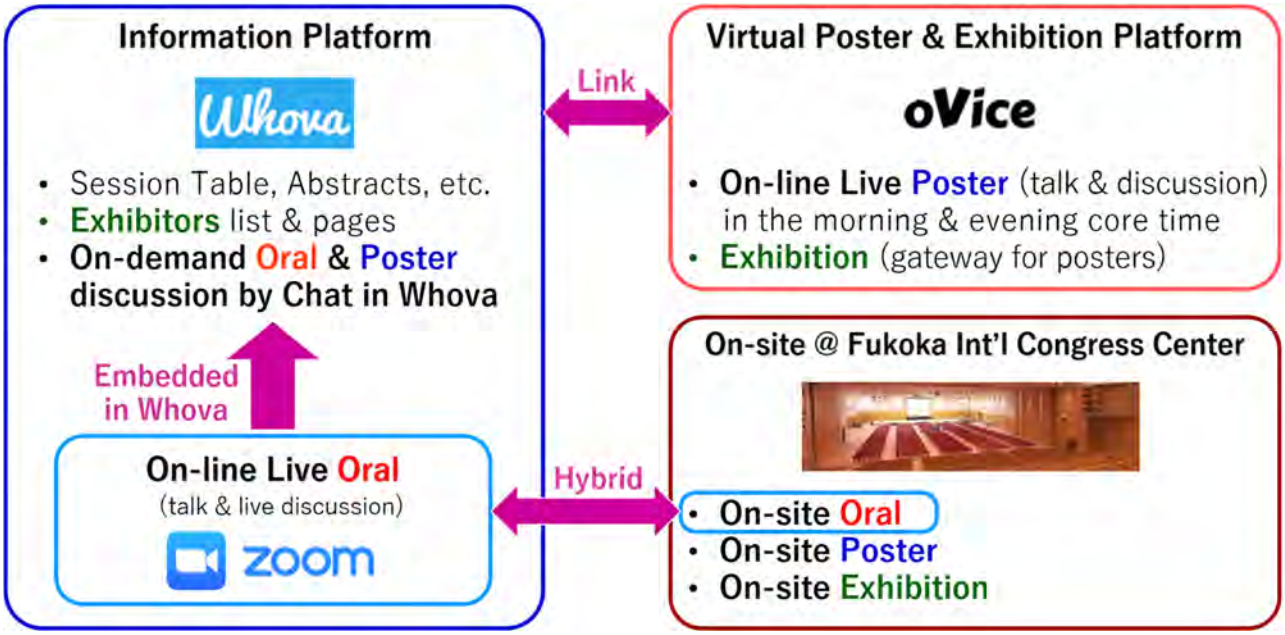
5. Mark Bird (FSU)
   Some Lessons Learned During 27 Years Operating Above 27 Tesla

6. Seungyong Hahn (Seoul National University)
   Lessons Learned in No-insulation HTS Magnet Technology

7. Liao Min (ITER Organization)
   Bringing a Nuclear Quality Approach to Superconducting Magnets

PLATFORMS FOR HYBRID CONFERENCE

We are planning the hybrid format using Whova and oVice to allow participants who are unable to attend the onsite from across the globe. The conference period will be extended in order for on-demand viewing and on-line discussion.



– Whova official website: https://whova.com/

– Whova MT27 site: https://whova.com/portal/webapp/icmt_202111/Agenda/1999797

– oVice official website: https://ovice.in/

–MT27 oVice site: https://mt27.ovice.in/

ORAL PRESENTATION GUIDLINE

Operational policies for Oral Sessions

We, organizers, would like to give top priority to live discussions at this meeting. Thus, the oral presenters use the speaker's screen share. On the other hand, measures to ensure stable operation under the restriction of virtual conference are essential.

Registration & File Upload

- **Backup oral presentation materials (PPT/pdf) should be uploaded on Whova by Nov. 13 (Sat), 2021.**
- **On-site presenters** shall use organizer's PCs for their presentations. And the presenters can re-upload/check their presentation slides at **PC preview center on the 4th floor (room 402 & 403) of the venue by the previous date of the presentation.**
- On-line presenters will remotely give presentations by their own PCs by Zoom in Whova.
- **On-line presenters** will go through the following after uploading your file to whova. (1) Check **the connection status of the presentation device at the Remote Speaker Test Site** at least one day before the presentation. (2) **30 minutes before the session starts, confirm attendance and network connection** in the session room.
- Note that the presentation will be recorded and will be open for all participants until six months after the conference.
-

Live Oral Session

- Online (Zoom in Whova) and onsite presenters must attend the session for the live discussion.
- Screen sharing on zoom is used for live presentation.
- For online presenters, **MT27 organizers strongly encourage "Live" presentations** while pre-recorded presentations will be also valuable as backup files in case internet communication problems. The on-line presenters can also take this option. In this case, the pre-recorded video should be uploaded in Whova in addition to the slide decks.
-

On-demand Discussion

- On-demand discussion is conducted by Chat on Whova. Frequent checks of the chat in the presenter's page are recommended.

POSTER PRESENTATION GUIDLINE

Registration & File Upload

- **Presenters MUST complete the registrations by November 1, 2021 (JST)**. **Registration later than November 2, 2021 may be considered as withdrawal.**
- **Presentation materials (pdf) should be uploaded to Whova by November 8, 2021 (JST)**. A0 horizontal (landscape) is recommended, but other sizes are acceptable for the pdf file.

Live Poster Session

- Live poster sessions will be held On-line via oVice and On-site.
- On-site poster session are only for on-site attendees. A poster with the size of A0 horizontal (landscape) can be posted on the poster board.
- The poster file (pdf) uploaded to Whova is shown by a pop-up window in the virtual hall (oVice). Screen sharing can also be used in oVice if the presenter wants.
- Two core times of on-line live poster sessions are scheduled in the morning (7:00-8:00JST) and in the evening (21:00-22:00JST) each day. The posters in the virtual hall (oVice) are replaced everyday.
- The core time(s), which a presenter will attend, should be indicated in Chat on Whova in advance by himself/herself: morning, evening, or both.
- **Attendance of the live presentations (at least one core time) is required for submitting the manuscript. It will be checked by moderators.**

On-demand Discussion

- On-demand discussion is conducted by Chat on Whova. Frequent checks of the chat in the presenter's page are recommended. [Important]

PUBLICATION

The conference proceedings will be published as a special issue of IEEE Transactions on Applied Superconductivity. However, the manuscript must be related to Magnet Technology as defined in the scope of the conference.

A unique “Registration Code” (8 characters, e.g. XMX5VC26) corresponding to each presentation will be required for the manuscript submission.

Submitted manuscripts will be subject to the usual peer review procedures of the Transactions. Articles accepted for publication will be available online soon after the date of acceptance, and will be identified by an article number. It is anticipated that articles will begin to be available for download and citation within 3 months after the Conference. The collected articles will also be published in print in an issue of IEEE Transactions on Applied Superconductivity.

The template of the manuscript (Microsoft Word) can be downloaded from the website of IEEE CSC:
https://ieeecsc.org/document/ieeetasspecialissuetemplatev80d22aug2017docx.

Manuscript Submission Deadline

23:59 EST, Tuesday, November 30, 2021

Page Limits

Manuscript Type	Page Limit	Pages for References Only
Contributed Oral or Poster	4	+1 *
Invited Oral or Poster	6	+1 *
Plenary	12	no limit

*Page limits do not apply to References—references may continue onto or entirely take up additional pages at no additional cost. The additional page fee is 12,000JPY per page.

Editorial Office / Contact Information

Centennial Conferences
Phone: 1-303-499-2299 | Fax: 1-303-499-2599 | Email: pubs@centennialconferences.com

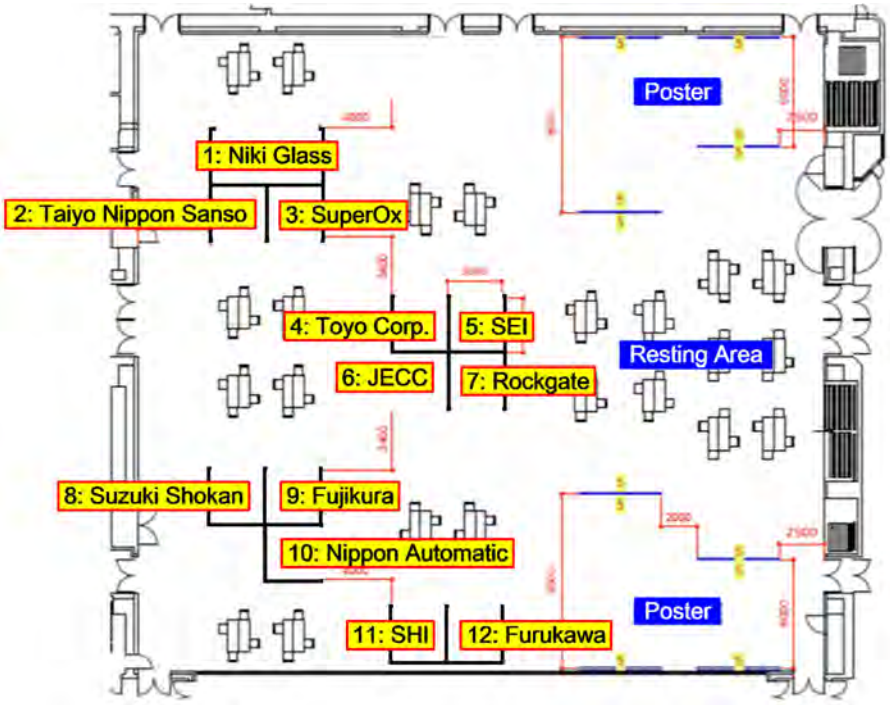
EXHIBITORS

The MT27 Exhibition runs concurrently with the 27th International Conference on Magnet Technology both on-site and on-line. The on-site exhibition locates on the second floor together with poster session area. On-line exhibition is on the entrance floor of oVice virtual space.

Exhibitor Move-In & Exhibitor Registration	Mon. 15, Nov.	14:00 – 18:00
Exhibition Times	Tue. 16, Wed. 17, Thu. 18, Nov.	09:30 – 18:00
Exhibitor Move-Out	Fri. 19, Nov.	09:00 – 12:00
Exhibit Setup & Registration		

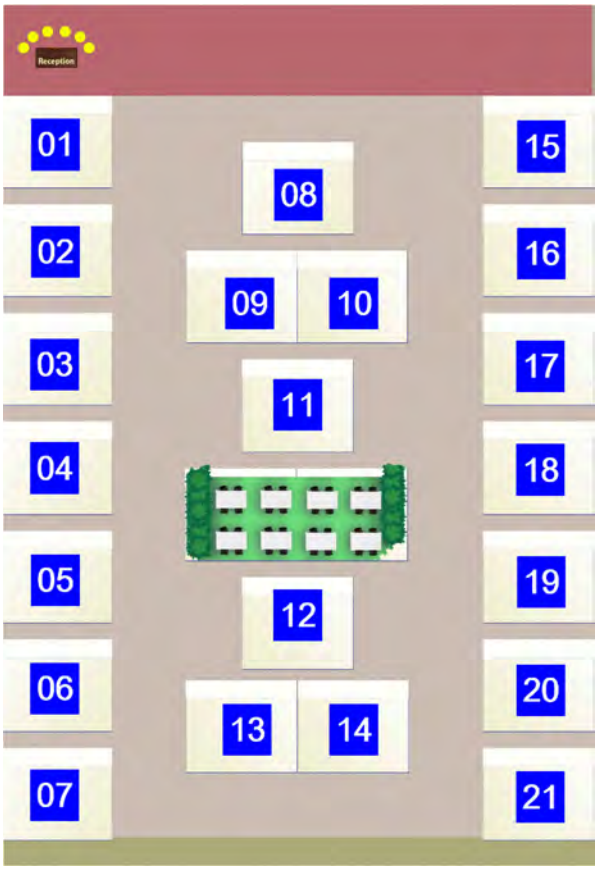
List of exhibitors (in alphabetical order)	Booth No.	On-site	Online
Fujikura Ltd.		9	12
Furukawa Electric Co., LTD.		12	17
General Atomics			02
JECC TORISHA Co., Ltd.		6	11
KAT (Kiswire Advanced Technology Co., Ltd.)			18
KYOCERA Corporation			07
Meiko Futaba Co., Ltd. (Yuki Holdings)			08
Metrolab Technology SA			13
NIKI GLASS CO., LTD / CRYOMECH/ C RYOMAGNETICS		1	09,10
NIPPON AUTOMATIC CONTROL COMPANY		10	06
Oxford Instruments			15
Rockgate Corporation		7	19
SIGMAPHI			04
Sumitomo Electric Industries, Ltd.		5	14
Sumitomo Heavy Industries		11	05
SuperOx Japan LLC		3	16
SUZUKI SHOKAN Co., Ltd.		8	01
TAIYO NIPPON SANSO Corp.		2	20
Toshiba Energy Systems & Solutions Corporation			03
TOYO Corporation		4	21

Exhibition Layout: On-site (2nd floor)



Exhibition Layout: Online (oVice platform)

https://mt27.ovice.in/



EXHIBITOR INFORMATION

Fujikura Ltd. **On-Site: #9, On-Line: #12**

Fujikura Ltd., has been the global leader of developing rare-earth-based 2nd Generation High-Temperature Superconducting tapes over 20 years. We sustain this title by producing best performance tape with higher critical current, longer piece length and higher uniformity for longitudinal critical current distribution. Prospective applications of our superconducting tapes are now widely spread from electrical/industrial equipment to medical and measuring instruments. Our superconductors are committed to not only be improving quality of human life but also have great potential for industrial innovation and saving natural resources.

Kunihito Kikuchi
1440, Mutsuzaki, Sakura-shi, Chiba 285-8550, Japan
Email: ask-sc@jp.fujikura.com Phone: +81-43-484-3048
Website: www.fujikura.com

Furukawa Electric Co., LTD. **On-Site: #12, On-Line: #17**

We will promote ESG management as a unified group and contribute to the realization of a sustainable society. “Drawing on more than a century of expertise in the development and fabrication of advanced materials, we will contribute to the realization of a sustainable society through continuous technological innovation.” This is the Corporate Philosophy ofthe Furukawa Electric Group. From our founding in 1884 through to the present day, the conveying, connecting, and storage of energy, information, and heat have been the pillars of our business, and through the four core technologies of metals, polymers, photonics, and high frequency, we are developing a wide range of products around the world in fields of infrastructure such as telecommunications and energy, as well as in the fields of automotive components and electronics.

Yuta Tejima, Japan
Email: yuta.tejima@furukawaelectric.com Phone: +81-288-54-0544
Website: https://www.furukawa.co.jp

General Atomics **On-Line: #02**

General Atomics (GA) is a world leader in electromagnetics and superconducting magnet technology. GA is fabricating the world’s most powerful pulsed superconducting magnet for ITER, an immense international experiment designed to demonstrate the feasibility of fusion energy. When assembled, the ITER Central Solenoid will have a peak field of 13.1 Tesla with 5.5 GJ of stored energy. In addition, GA is leveraging its decades of experience to push the boundaries of technology in both low and high-temperature superconducting magnets. Magnet research at GA has led to discoveries and spinoff technologies in medical diagnostics, cryogenics, energy storage, transportation, semiconductors, and defense applications.

John Smith, Director of Projects & Engineering
3550 General Atomics Court, San Diego, California, USA 92121
Email: John.Smith@ga.com Phone: +1- 858-909-5276
Website: www.ga.com/magnetic-fusion

JECC TORISHA Co., Ltd. **On-Site: #6, On-Line: #11**

Design, production, sale, export-import business and maintenance of high performance Vacuum jacketed pipings, Cryogenic apparatus, High-pressure gas equipments, Vacuum apparatus and related goods.

Minoru Maeda
8-52, Yoshinodai 2-chome, Kawagoe-shi, Saitama 350-0833, Japan
Email: U359510@jecctorisha.co.jp Phone: +81-49-225-7555
Website: http://www.jecctorisha.co.jp/index.html

KAT (Kiswire Advanced Technology Co., Ltd.) **On-Line: #18**

Established in 2004, KAT is a global leading superconducting wire company located in Daejeon, South Korea. KAT has been developing and offering high-performance superconducting wires (Nb3Sn, NbTi, and MgB2) and supplied its wire various fusion reactors including K-STAR, ITER, and most recently DTT. In 2019, KAT has awarded € 32 million contract for DTT project from ENEA in Italy and scheduled to supply 55 tons of Nb_3Sn strand till 2022. KAT has been also developing a High J_c Nb_3Sn superconducting wire for the FCC project in collaboration with CERN. KAT continues to develop high-performance superconducting wires and expands its business to superconducting magnets and cryogenic vessels. KAT is a wholly owned subsidiary of Kiswire.

Steve Kim, Iksang Shin
223, Techno 2-ro, Yuseong-gu, Daejeon, Republic of Korea, 34026
Email: stevekim@kiswire.com, godiks@kiswire.com Phone: +82 42 939 8732, 8740
Website: www.kiswire-kat.com

KYOCERA Corporation **On-Line: #07**

KYOCERA Corporation has been developing, manufacturing and selling Fine Ceramic materials since 1959. High-quality ceramic components, metalized components and sapphire components we manufactured are widely used in global market. In the field of superconductivity, we have a variety of experience to supply such components. We'd like to introduce the following products, especially Feedthrough technology for -253℃. We confirmed this new technology with Japan Aerospace Exploration Agency by testing thermal cycles between -253℃ and room temperature.

We look forward to your stay with us at online our company booth.

- Feedthrough Technology for -253℃（New Technology)
- Feedthrough usable at -196℃
- Non-Magnetic Feedthrough usable at -196℃
- Sapphire(high thermal conductivity at cryogenic temperature)related products
- Other ceramic components for cryogenic applications

Shigemiki Muraki - BD-1 Team, BD-2 Section, FC Business Development Department 2
Head Office 6 Takeda Tobadono-cho. Fushimi-ku, Kyoto 612-8501 Japan
Email: shigemiki.muraki.ke@kyocera.jp Phone: +81-80-6787-0563
Website:https://global.kyocera.com/?_ga=2.230580761.424682465.1634195422-290824551.1527240168

Meiko Futaba Co., Ltd. **On-Line: #08**

We have provided high quality electrical conductors for more than 60 years. Utilizing our wealth of experience, advanced technology and a full range of manufacturing equipment, we are committed to persevering until our customer's demands have been fully satisfied. We always analyze customer's needs through their perspective, aim to establish an integrated operating system from design to manufacturing and sales, and devote ourselves to acquiring new customers in new industrial sectors. As part of that, we have initiated the joint study on revolutionary ultra-thin superconducting cable by NIMS since November 2018. The motivation is to give mechanically vulnerable superconducting cable an unprecedented flexibility by becoming thinner. Recently, we are investigating on Nb3Al cable under 50 microns in diameter.

Ippei TAKAMA
Hitachi dai6 Bldg. 4F, 2-6-14, Kyobashi, Chuo-ku, Tokyo 104-0031, Japan
Email: ippei.takama@yuki-holdings.jp Phone: +81-(0)90-3869-3167
Website: http://www.meiko-futaba.co.jp/

Metrolab Technology SA **On-Line: #13**

Metrolab Technology SA is the global market leader for precision magnetometers, used to measure high-intensity magnetic fields to a very high precision. Over the past 35 years, we have won the trust of MRI manufacturers and physics laboratories across the world.Our products include:

- Three-axis Hall Magnetometers
- Precision Digital Integrators: high precision fluxmeters to map complicated fields
- NMR Precision Magnetometers: the gold standard for magnetometers
- NMR Magnetic Field Cameras: the accepted method to map whole-body MRI magnets

Metrolab was founded in 1985 and is located in Geneva, Switzerland. We develop and maintain our expertise through an international network of scientific consultants and academic collaborations. More important than the product, our top priority is to help you effectively measure magnetic fields.

Dr Antoine Daridon
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Website: www.metrolab.com

NIKI GLASS CO., LTD (Cryomagnetics, Inc., Cryomech, Inc.) **On-Site: #1, On-Line: #09,10**

We (NIKI GLASS) will hold a joint exhibition with CRYOMECH & CRYOMAGNETICS. We are exclusive representative for them in Japan. Cryomagnetics, established in 1983, is a leading manufacturer of superconducting magnets and magnet systems. Their engineering strikes a careful balance between rugged design and ease of operation allowing for efficient operation. Solenoidal, split pair, multi-axis, and dipole/quadrupole designs are available in standard and high field configurations. In-house manufacturing capabilities include ultralow loss cryostats, liquid cryogen-FREE systems with integrated VTI, recondensing, and custom designs. Cryomech's products operate in more than 50 countries, providing thousands of customers with custom-built Cryocoolers, Helium Liquefiers, Liquid Nitrogen Plants and ULT Cryostats. Named for their founder, Gifford-McMahon Cryocoolers have been the foundation of low-temperature research for more than 55 years.

Koji Nishi
26-22 Higashi Ooi 5-chome, Shinagawa-Ku, Tokyo 140-0011, Japan
Email: niki_sales@nikiglass.com Phone: +81-(0)3-4218-4700
Website: http://www.nikiglass.co.jp/english/New/supplier_Cryo.html

NIPPON AUTOMATIC CONTROL COMPANY **On-Site: #10, On-Line: #06**

We are promoting the introduction of new products in order to respond to the diversifying demands of researchers.

Masatoshi Yoshino
15F. Shin-Ohsaki Kangyo Bidg. 1-6-4, Ohsaki, Shinagawa-Ku, Tokyo 141-0032 Japan
Email: yoshino@naccjp.com Phone: +81-(0)3- 5434-1600
Website: http://www.naccjp.com

Oxford Instruments NanoScience **On-Line: #15**

Oxford Instruments NanoScience (OINS), is a leading provider of high technology products and services to the world's leading industrial companies and scientific research communities. We design, supply and support market-leading research tools that enable quantum technologies, nano technology research, advanced materials and nano device development in the physical sciences. Building on a 60 year heritage, Oxford Instruments are at the forefront of development and commercialisation of quantum computing around the world, including working on a number of Innovate UK projects.

John Burgoyne
Tubney Woods Abingdon, Oxfordshire, OX13 5QX, United Kingdom
Email: john.burgoyne@oxinst.com Phone: +44（0)1865 383200
Website: https://www.oxinst.com/

Rockgate Corporation **On-Site: #7, On-Line: #19**

We provide a wide range of scientific research equipment, including refrigerant-free dilution refrigerators, precision positioning stages, and magnetic sensors, to our customers. To meet the diversified and sophisticated needs of researchers, we provide import services of excellent overseas scientific equipment and parts, design and manufacture of custom-made equipment and parts, as well as regular maintenance and repair services of various equipment. Rockgate Corporation will continue to develop new products and enhance our technical services to meet the needs of the new era.

Akira Imai
3-19-5 Yushima, Bunkyo-ku, Tokyo 113-0034
Email: info@rockgateco.com Phone: +81-3-6284-4567
Website: https://www.rockgateco.com/

SIGMAPHI ACCELERATOR TECHNOLOGIES **On-Line: #04**

For already 40 years, the Sigmaphi team has helped you to design, build, measure and install: resistive magnets, permanent magnets, superconducting magnets, turnkey beamlines.
- any system able to deviate particles : any size (from 1kg to 100 tons), any quantity (from a single unit to a serial production of 300 magnets), including any size of conductor or any specific enquiry (radiation resistance, extreme conditions…),

Jean-Luc Lancelot
ZI du Prat, rue des Frères Montgolfier, 56000 VANNES, France
Email: contact@sigmaphi.fr Phone: +33 2 97 01 08 80
Website: https://www.sigmaphi.fr/

Sumitomo Electric Industries, Ltd. **On-Site: #5, On-Line: #14**

Sumitomo Electric Industry (SEI) has continued to develop high-temperature superconductors since their discovery in 1986 and succeeded in improving the performance and commercializing bismuth-based high-temperature superconducting wire Bi-2223 as DI-BSCCO. DI-BSCCO has “High Performance” of critical current and mechanical properties with “High uniformity”. Among the superconducting products on the market, DI-BSCCO has the highest critical temperature of 110K. DI-BSCCO has been used all over the world and has been successful because of “High Reliability”. The long-term reliability of wires has been confirmed in the applications of superconducting cables and superconducting magnets. DI-BSCCO is produced with high quality control by ISO-9001 system. We will contribute to a sustainable society by providing more excellent superconducting products.

Takato Masuda
1-1-3, Shimaya, Konohana-ku, Osaka, 554-0024, Japan
Email: masuda-takato@sei.co.jp Phone: +81-6-6466-5630
Website: https://sumitomoelectric.com/super

Sumitomo Heavy Industries, Ltd. **On-Site: #11, On-Line: #05**

GM Cryocoolers: GM Cryocoolers are orientation free and utilized in applications where ultra-low temperatures of 4K are required, including astronomical observatories like the Subaru and ALMA telescopes, and superconducting magnets for MRI systems.

Pulse Tube Cryocoolers: Due to their comparatively low vibration, Pulse Tube Cryocoolers are used in applications like NMR magnets and dilution refrigerator precooling. Models with a separated valve unit are available for applications where vibration noise particularly should be avoided.

Solvay Cryocoolers: With a product lineup featuring diverse temperature ranges and superior cooling capabilities, these products are used in a wide range of applications. Since their release in 1968, they have demonstrated excellent performance and won the trust of customers around the world.

Toshihiko Fukushima
1-1, Osaki 2-Chome, Shinagawa-Ku Tokyo 141-6025 Japan
Email: toshihiko.fukushima@shi-g.com Phone: +81-50-2036-3549
Website: https://www.shicryogenics.com/

SuperOx Japan **On-Site: #3, On-Line: #16**

The origin of the company name “SuperOx” is a combination of the words “Superconductivity” and “Oxide”, and it is a symbolic name that fuses physics and chemistry, which are the basis of our business. We, SuperOx Japan, is promoting R&D and manufacture of high quality, long superconducting wire, which satisfies the needs of customers as a “next-generation superconducting wire (2G-HTS wire)”. We believe that it will contribute to the development of technological development in the fields of energy, transportation, accelerators, and medical in the future. SuperOx 2G-HTS wire empowers high-field magnets, fault current limiters, cables, motors, generators, energy storage systems and many other novel applications.

Minako OKA
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Website: https://superoxjapan.com

SUZUKI SHOKAN Co., Ltd. CRYOGENIC DEPARTMENT **On-Site: #8, On-Line: #01**

SUZUSHO gives best to meet the customer’s needs with most advanced cryogenic, vacuum and superconducting technologies.

Masami Kajiyama
73 Hiratsuka, Ageo-Shi, Saitama 362-0011, Japan
Email: kajiyama@suzukishokan.co.jp Phone: +81-48-796-8301
Website: https://www.suzukishokan.co.jp/english/cryogenic.html

Taiyo Nippon Sanso Corp. **On-Site: #2, On-Line: #20**

Ever since its foundation in 1910, Taiyo Nippon Sanso has steadily acquired unique know-how and technical capabilities based on in-depth experience through the manufacture and supply of industrial gases. Cryogenic cooling is indispensable for research and development such as exploring the origin of the universe, sources of matter and life, and the future energy source. As a pioneer in the cryogenic field, Taiyo Nippon Sanso is providing support to these technologies of dream by supplying optimum equipment and systems.

Space & Cryogenic Equip. Dept.
6-8 Kojima-cho, Kawasaki-ku, Kawasaki-city 210-0861 Japan
Email: btgbb10@tn-sanso.co.jp Phone: +81-44-288-6937
Website: https://www.tn-sanso.co.jp/en/

Toshiba Energy Systems & Solutions Corporation **On-Line: #03**

Toshiba Energy Systems & Solutions Corporation is a leading supplier of integrated energy solutions. With our long experience and expertise in a wide range of power generating and transmitting systems and energy management technology—such as renewable energy, energy conversation and energy matching—we contribute to achieving carbon neutral. We are promoting to realize the next-generation energy services with advanced IoT and AI technologies utilizing our knowledge and know-how we have accumulated in energy system development and manufacturing. We aspire to see the world where people everywhere can access the energy, they need to improve their quality of life, and to create such world, we aim to become a company that design the future of energy.

Atsuro Hayakawa
72-34, Horikawa-cho, Saiwai-ku Kawasaki-shi, Kanagawa 212-8585, Japan
Email: atsuro.hayakawa@toshiba.co.jp Phone: +81-45-770-2403
Website: https://www.toshiba-energy.com/en/index.htm

TOYO Corporation **On-Site: #4, On-Line: #21**

TOYO is a distributor of Lake Shore. We are introducing Temperature sensors/controllers, Teslameters and Janis Cryostat.

Mr.Shigeru Yashima
1-6, Yaesu 1-chome, Chuo-ku, Tokyo 103-8284, Japan
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Website: https://www.toyo.co.jp/english/

Technical Program

TECHNICAL PROGRAM

TUESDAY, NOBEMBER 16, 2021

9:00 – 9:30 **3F Main Hall**

Opening Session

10:00 - 11:45 **3F Main Hall**

TUE-OR1-102 Magnets for accelerator science and particle physics

Session Moderators: Tatsushi Nakamoto, KEK and Vadim Kashikhin, Fermilab

10:00 **TUE-OR1-102-01: Conductors for Fast Ramping Accelerator Magnets**
BARZI, emanuela (Fermilab); JOHNSTONE, Carol (Fermilab); PALMER, Mark (BNL); SUMPTION, Mike (The Ohio State University)

10:15 **TUE-OR1-102-02: SIS100 superconducting magnet series production**
WINKLER, Tiemo (GSI); ROUX, Christian-Eric (GSI); SPILLER, Peter-Jurgen; MEIER, Jan Patrick; BLEILE, Alexander (GSI); SUGITA, Kei (GSI); AGUAR BARTOLOME, Patricia (GSI Helmholtzzentrum fur schwerionenforschung GmbH); SZWANGRUBER, Anna (GSI); WALDT, Andreas (GSI); KAETER, Florian (GSI); KETTER, Georg Jochen (GSI)

10:30 **TUE-OR1-102-03: Conduction Cooling Test of Short Period NI HTS Undulator at Different Opearating Temperature Ranges 20-77 K**
PARK, Jeonghwan (Seoul National University); KIM, Jaemin (Seoul National University); KIM, Dong-Eon (Pohang Accelerator Laboratory); SHIN, Seunghwan (Pohang Accelerator Laboratory); HA, Taekyun (Pohang Accelerator Laboratory); HAHN, Garam (Pohang Accelerator Laboratory); KIM, Geonyoung (Seoul National University); BANG, Jeseok (Seoul National University); HAHN, Seungyong (Seoul National University)

10:45 **TUE-OR1-102-04: Design, Construction, and Testing of 0.5-m-long, 18-mm Period Nb3Sn Superconducting Undulator Magnets**
KESGIN, Ibrahim (Argonne National Laboratory); KASA, Matthew (Argonne National Laboratory); MACDONALD, Stephen (Argonne National Laboratory); HASSE, Quentin (Argonne National Laboratory); IVANYUSHENKOV, Yury (ANL); SHIROYANAGI, Yuko (Argonne National Laboratory); BARZI, Emanuela (Fermilab); TURRIONI, Daniele (FNAL (US)); ZLOBIN, Alexander (Fermilab); ARBELAEZ, Diego; PRESTEMON, Soren; GLUSKIN, Efim (Argonne National Laboratory)

11:00 **TUE-OR1-102-05: Status of mu2e Transport Solenoid cold mass**
LOMBARDO, Vito (Fermi National Accelerator Laboratory); AMBROSIO, Giorgio

(Fermilab); BADGLEY, Karie (Fermilab); BRANDT, Jeffrey (Fermilab); EVBOTA, Daniel (Fermilab); HOCKER, Andy; LAMM, Michael (Fermi National Accelerator Laboratory (FNAL)); SCHLABACH, Philip (Fermilab); BERSANI, Andrea; FABBRICATORE, Pasquale (INFN e Universita Genova (IT))

11:15 **Presentation withdrawn**

11:30 **TUE-OR1-102-07: Design and quench analysis for transparent superconducting solenoids for the Innovative Detector for Electron-positron Accelerators at the lepton Future Circular Collider**
DEELEN, Nikkie (CERN); MALINOWSKI, Filip Maciej (The University of Edinburgh (GB)); DUDAREV, Alexey (CERN); MENTINK, Matthias (CERN)

10:00 - 12:00 4F 409+410

TUE-OR1-304 Resistive and Pulsed High-Field Magnets

Session Moderators: Kohki Takahashi, Tohoku University and Mark Bird, NHMFL

10:00 **TUE-OR1-304-01: [Invited] Status of the Pulsed-Magnet Program at the Dresden High Magnetic Field Laboratory**
ZHERLITSYN, Sergei (Helmholtz-Zentrum Dresden-Rossendorf, Hochfeld-Magnetlabor Dresden); HERRMANNSDÖRFER, Thomas (Helmholtz-Zentrum Dresden-Rossendorf, Hochfeld-Magnetlabor Dresden); WOSNITZA, Joachim (Helmholtz-Zentrum Dresden-Rossendorf, Hochfeld-Magnetlabor Dresden)

10:15 **TUE-OR1-304-02: Recent developments at the pulsed magnetic field facility of the LNCMI**
MORAINE, Tristan (LNCMI CNRS UPS INSA UGA); BILLETTE, Julien (LNCMI CNRS UPS INSA UGA); LEMAIRE, Thierry (LNCMI CNRS UPS INSA UGA); PÉREZ-SAUCEZ, Carmen (LNCMI CNRS UPS INSA UGA); NICOLIN, Jean-Pierre (LNCMI CNRS UPS INSA UGA); FRINGS, Paul (LNCMI CNRS UPS INSA UGA); LAGARRIGUE, Jean-Marc (LNCMI CNRS UPS INSA UGA); BEARD, Jerome (LNCMI CNRS UPS INSA UGA)

10:30 **TUE-OR1-304-03: Redesign and rebuild of the Coils for the 60 T Controlled Waveform Magnet at the NHMFL**
NGUYEN, Doan (Los Alamos National Lab); ADKINS, Todd (National High Magnetic Field Laboratory); MICHEL, James (LANL); DIXON, Iain (Florida State University)

10:45 **TUE-OR1-304-04: 60-T pulsed magnet for x-ray scattering experiments at the European XFEL**
YAMAMOTO, Shingo (Dresden High Magnetic Field Laboratory, Helmholtz-Zentrum Dresden-Rossendorf); FINDEISEN, Stefan (Department of Research Technology, Helmholtz-Zentrum Dresden-Rossendorf); MÖLLER, Falk (Dresden High Magnetic Field Laboratory, Helmholtz-Zentrum Dresden-Rossendorf); DITTRICH, Steffen (Dresden High

Magnetic Field Laboratory, Helmholtz-Zentrum Dresden-Rossendorf); BERGHÄUSER, Andreas (Institute of Radiation Physics, Helmholtz-Zentrum Dresden-Rossendorf); ZHERLITSYN, Sergei (Dresden High Magnetic Field Laboratory, Helmholtz-Zentrum Dresden-Rossendorf); HERRMANNSDÖRFER, Thomas (Dresden High Magnetic Field Laboratory, Helmholtz-Zentrum Dresden-Rossendorf); BÄHTZ, Carsten (Institute of Radiation Physics, Helmholtz-Zentrum Dresden-Rossendorf); STROHM, Cornelius (Deutsches Elektronen-Synchrotron (DESY)); WOSNITZA, Jochen (Dresden High Magnetic Field Laboratory, Helmholtz-Zentrum Dresden-Rossendorf, TU Dresden)

11:00 **TUE-OR1-304-05: Optimizing single-turn coils for scientific applications beyond 100T**
PORTUGALL, Oliver (CNRS-LNCMI); DRACHENKO, Oleksiy (CNRS-LNCMI); RIKKEN, Geert (CNRS-LNCMI)

11:15 **TUE-OR1-304-06: Effect of notch geometry on the plastic deformation behavior of high-strength conductors**
NIU, Rongmei (National High Magnetic Field Laboratory) Co-author: HAN, Ke (Florida State University)

11:30 **TUE-OR1-304-07: A Novel Design of Multi-coil Magnet System for 100 T**
LI, Liang (Huazhong University of Science and Technology); PENG, Tao (Wuhan National High Magnetic Field Center); DING, Hongfa (Wuhan National High Magnetic Field Center, Huazhong University of Science and Technology); HAN, Xiaotao (Wuhan National High Magnetic Field Center); WANG, Shuang (Huazhong University of Science and Technology); PAN, Yuan (Wuhan National High Magnetic Field Center)

11:45 **TUE-OR1-304-08: Flux Concentrator Optimization for Future Positron Sources**
BAJAS, Hugo (CERN); ZHAO, Yongke (CERN & Shandong University (CN)); DOEBERT, Steffen (CERN); LATINA, Andrea (CERN)

10:00 - 12:00 4F 413+414

TUE-OR1-602 High Tc Wires and Cables I

Session Moderators: Masami Iio, KEK and Yifei Zhang, SuperPower Inc.

10:00 **TUE-OR1-602-01: Recent progress of RE-based High Temperature Superconductors at Fujikura**
DAIBO, Masanori; HANYU, Satoru (Fujikura Ltd.); FUJITA, Shinji (Fujikura Ltd.); MUTO, Shogo (Fujikura Ltd.); IIJIMA, Yasuhiro (Fujikura Ltd.)

10:15 **TUE-OR1-602-02: Current review of the 2G-HTS wires production for high-field applications at SuperOx**
PETRYKIN, Valery (SuperOx Japan LLC); LEE, Sergey (SuperOx Japan LLC); MOLODYK, Alexander (S-innovations LLC); SAMOILENKOV, Sergej (SuperOx); MARKELOV, Anton (S-

innovations LLC); MANKEVICH, Alexei (S-Innovations LLC); VAVILOV, Andrey (SuperOx); GAIFULLIN, Marat (SuperOx Japan LLC); VYATKIN, Vladimir (SuperOx Japan LLC); DEGTYARENKO, Pavel (S-Innovations LLC); DAO, Hoa (SuperOx Japan LLC); OKADA, Tatsunori (Tohoku University); AWAJI, Satoshi (Tohoku University); SORBOM, Brandon (Commonwealth Fusion Systems); CHENG, Jessica (Commonwealth Fusion Systems)

10:30 **TUE-OR1-602-03: Progress of 2G HTS Development and Process Improvement at SuperPower**
HAZELTON, Drew (SuperPower Inc.)

10:45 **TUE-OR1-602-04: Report on the Improvement of In-field Critical Current in SuNAM's Coated Conductor**
LEE, Hunju (SuNAM Co., Ltd.); LEE, Jae-Hun (SuNAM Co., Ltd.); LEE, Yuri (SuNAM Co., Ltd.); MOON, Seung-Hyun (SuNAM Co., Ltd.)

11:00 **TUE-OR1-602-05: Advanced HTS tape for high-field applications by THEVA**
BENDELE, Markus (THEVA Dunnschichttechnik GmbH); HINTZE, Cornelia (THEVA Dunnschichttechnik GmbH); GROSSE, Veit (THEVA Dunnschichttechnik GmbH)

11:15 **TUE-OR1-602-06: The effects of nanostructure on Jc(B, T) in ReBCO coated conductors at multiple angles**
FRANCIS, Ashleigh (National High Magnetic Field Laboratory); ABRAIMOV, Dmytro (National High Magnetic Field Laboratory); BRADFORD, Griffin (National High Magnetic Field Laboratory); JAROSZYNSKI, Jan (National High Magnetic Field Laboratory); KAMETANI, Fumitake (National High Magnetic Field Laboratory); LARBALESTIER, David (National High Magnetic Field Laboratory)

11:30 **TUE-OR1-602-07: Irradiation effect on superconductivity of REBCO coated conductors**
IIO, Masami (High Energy Accelerator Research Organization (KEK)); YOSHIDA, Makoto (High Energy Accelerator Research Organization (KEK)); NAKAMOTO, Tatsushi (High Energy Accelerator Research Organization (KEK)); SUGANO, Michinaka; OGITSU, Toru (High Energy Accelerator Research Organization (KEK)); SUZUKI, Kento (High Energy Accelerator Research Organization (KEK))

11:45 **TUE-OR1-602-08: Low-AC-loss SCSC cable: magnetization loss measurements of spiral copper-plated multifiament coated conductors**
AMEMIYA, Naoyuki (Kyoto University); SHIGEMASA, Mao (Kyoto University); TAKAHASHI, Akira (Kyoto University); SOGABE, Yusuke (Kyoto University); YAMANO, Satoshi (SuperPower Inc.); SAKAMOTO, Hisaki (Furukawa Electric Co., Ltd)

15:30 - 16:15 3F Main Hall

Plenary: Robert Herzog (Bruker Switzerland AG)

Commercial Ultra-High-Field NMR Magnets with HTS Conductors

Session Moderators: Hideaki Maeda, RIKEN and Gen Nishijima, NIMS

15:30 **TUE-PL1: [Plenary] Commercial Ultra-High-Field NMR Magnets with HTS Conductors**
HERZOG, Robert (Bruker Switzerland AG); WIKUS, Patrick (Bruker Switzerland AG); VONLANTHEN, Patrik (Bruker Switzerland AG); MINEEV, Nikolay (Bruker Switzerland AG)

On-line 7:00 - 8:00, On-site 13:15 - 15:15, On-line 21:00 - 22:00 2F Multipurpose Hall

TUE-PO1-104 Accelerator Magnets II: fast cycling, injection, extraction

Session Moderator: Yasushi Arimoto, KEK

TUE-PO1-104-01: Control of Rotatable-Quadrupole Magnets Angles for 3-D Spiral Injection Test Experiment
HIRAYAMA, Honoka (Ibaraki University); IINUMA, Hiromi (Japan/Ibaraki-University); REHMAN, Muhammad Abdul (High Energy Accelerator Research Organization (JP)); OHSAWA, Satoshi (KEK); NAKAYAMA, Hisayoshi (KEK); FURUKAWA, Kazuro (KEK); MIBE, Tsutomu (KEK)

TUE-PO1-104-02: Design and fabrication of the Mu2e 300 kHz and 4.4 MHz AC Dipole Magnets
ELEMENTI, Luciano; STILL, Dean (FNAL); NAGASLAEV, Vladimir (Fermi National Accelerator Laboratory); HARDING, David (Fermilab); JENSEN, Christopher; PFEFFER, Howard (FNAL); WONG-SQUIRES, Mayling (Fermi National Accelerator Laboratory); PREBYS, Eric (Fermilab); KLEIN, Beth (Fermi National Accelerator Laboratory); NARUG, Colin (Fermi National Accelerator Laboratory); WILLIAMS, James (Fermi National Accelerator Laboratory); TERESHKINE, Iouri (Fermi National Accelerator Laboratory); HARRIG, Keegan (Fermi National Accelerator Laboratory)

TUE-PO1-104-03: Design of a strong X-Y coupling beam transport line for J-PARC muon g-2/EDM experiment
IINUMA, Hiromi (Japan/Ibaraki-University); ABE, Mitsushi (KEK); SASAKI, Ken-ichi (KEK); HISAYOSHI, Nakayama (KEK); MIBE, Tsutomu (KEK)

TUE-PO1-104-04: Development of A Prototype Kicker Magnet for Beam Distribution System of SHINE
LIU, Yongfang (SARI-CAS); GU, Ming (Shanghai Advanced Research Institute, Chinese Academy of Sciences)

TUE-PO1-104-05: Developments of a Pulse Kicker System for the Three-Dimensional Spiral Beam Injection of the J-PARC Muon g-2/EDM Experiment
ODA, Kodai (Ibaraki-University); IINUMA, Hiromi (Ibaraki-University); HIRAYAMA, Honoka (Ibaraki University); ABE, Mitsushi (KEK); SASAKI, Ken-ichi (KEK); OHSAWA, Satoshi (KEK); NAKAYAMA, Hisayoshi (KEK); SAITO, Naohito (KEK / J-PARC / University of Tokyo); FURUKAWA, Kazuro (KEK); MIBE, Tsutomu (KEK); TAKAYANAGI, Tomohiro (JAEA/J-PARC); REHMAN, Muhammad Abdul (KEK); MATSUSHITA, Ryota (University of Tokyo)

TUE-PO1-104-06: Electromagnetic Design of a 6 T Cos-theta Fast Cycling Dipole Model
YANG, Tongjun (Institute of Modern Physics, Chinese Academy of Sciences); CHEN, Yuquan; BEIMIN, Wu (Institute of Modern Physics, Chinese Academy of Sciences); ZHENG, shijun (Institute of Modern Physics, Chinese Academy of Sciences); WU, Wei (Institute of Modern Physics, Chinese Academy of Sciences); NI, Dongsheng (Institute of Modern Physics Chinese Academy of Sciences); LIANG, Yu (Institute of Modern Physics, Chinese Academy of Sicences); YUAN, Ping (Institute of Modern Physics of Chinese Academy of Sciences)

TUE-PO1-104-07: Ferrite Requirement, Specification and Verification for the Mu2e 300 kHz and 4.4 MHz AC Dipole Magnets
ELEMENTI, Luciano (Fermilab); HARDING, David (Fermilab); JENSEN, Christopher; NAGASLAEV, Vladimir (Fermi National Accelerator Laboratory); STILL, Dean (FNAL); PREBYS, Eric (Fermilab); HARRIG, Keegan (Fermilab); PFEFFER, Howard (Fermilab); TERECHKINE, Iouri (Fermilab); WONG-SQUIRES, Mayling (Fermilab); WILLIAMS, James (Fermilab)

TUE-PO1-104-08: Magnets for Ion Transfer Line from the Booster to the Nuclotron for the NICA project
OKUNEV, Ivan (BINP SB RAS); SINJATKIN, Sergey (BINP SB RAS); BATRAKOV, Alexander (Unknown); SHTRO, Konstantin (Budker Institute of Nuclear Physics); PAVLENKO, Anton (BINP SB RAS)

TUE-PO1-104-09: Optimization design and development of septum magnet
WEI, Yanqun (Institute of Modern Physics, Chinese Academy Sciences); YAO, Qinggao (Institute of Modern Physics, Chinese Academy Sciences); MA, Lizhen (Institute of Modern Physics, Chinese Academy Sciences)

TUE-PO1-104-10: Presentation withdrawn

TUE-PO1-104-11: The Superconducting Shield (SuShi) septum magnet prototype
BARNA, Daniel (Wigner Research Centre for Physics); NOVAK, Martin Istvan (Wigner Research Centre for Physics (Wigner RCP) (HU)); KIRBY, Glyn (CERN); ATANASOV, Miroslav Georgiev (CERN); BORBURGH, Jan (CERN)

TUE-PO1-104-12: Transient Simulation and Field Measurement of Trim Quadrupoles and AC Sextupoles for CSNS/RCS Upgrade
DENG, Changdong (institute of High Energy Physics, CAS)

TUE-PO1-104-13: Truncated-Cosine-Theta Design for High Field Septum Magnets
SUGITA, Kei (GSI)

On-line 7:00 - 8:00, On-site 13:15 - 15:15, On-line 21:00 - 22:00

2F Multipurpose Hall

TUE-PO1-106 Accelerator Magnets IV: HTS

Session Moderator: Yasushi Arimoto, KEK

TUE-PO1-106-01: Design and optimization of the superconducting quadrupole magnet Q1a in CPEC interaction region

SHEN, Chuang (1 Institute of High Energy Physics, Chinese Academy of Science, 2 University of Chinese Academy of Sciences); ZHU, Yingshun (1 Institute of High Energy Physics, Chinese Academy of Science, 2 University of Chinese Academy of Sciences); CHEN, Fusan (1 Institute of High Energy Physics, Chinese Academy of Science, 2 University of Chinese Academy of Sciences)

TUE-PO1-106-02: [Invited] Design of the HTS based, high power proton Cyclotron CYCIAE-100B

ZHANG, Tianjue (China Institute of Atomic Energy); WANG, Chuan (China Institute of Atomic Energy); LI, Ming (China Institute of Atomic Energy); YIN, Zhiguo (China Institute of Atomic Energy); FU, Wei (China Institute of Atomic Energy); ZHOU, Hongji (China Institute of Atomic Energy); PEI, Shilun (China Institute of Atomic Energy); ZHANG, Suping (China Institute of Atomic Energy); WANG, Fei (China Institute of Atomic Energy); AN, Shizhong (China Institute of Atomic Energy); LIN, Jun (China Institute of Atomic Energy); PAN, Gaofeng (China Institute of Atomic Energy); LIU, Jingyuan (China Institute of Atomic Energy); ZHU, Xiaofeng (China Institute of Atomic Energy); CAI, Hongru (China Institute of Atomic Energy)

TUE-PO1-106-03: Fabrication and Test of a 1:4 Scaled HTS Coil for the Defocusing Magnet of a 2 GeV FFAG Accelerator

FU, Wei (China Institute of Atomic Energy); WANG, Chuan (China Institute of Atomic Energy); ZHANG, Tianjue (China Institute of Atomic Energy); ZHOU, Hongji (China Institute of Atomic Energy); LIN, Jun (China Instiute of Atomic Energy); LI, Ming (China Institute of Atomic Energy); BIAN, Tianjian (China Institute of Atomic Energy); ZHANG, Suping (China Institute of Atomic Energy); ZHU, Xiaofeng (China Institute of Atomic Energy); AN, Shizhong (China Institute of Atomic Energy)

TUE-PO1-106-04: Fabrication and Test of a 1.5 T Cryogen-Free HTS Magnet for the Heavy Ion Spectrometer

CHEN, Yuquan; WU, Wei (Institute of Modern Physics, Chinese Academy of Sciences); BEIMIN, Wu (Institute of Modern Physics, Chinese Academy of Sciences); DU, Zhuoyue (Institute of Modern Physics ,Chinese Academy of Science); YANG, Tongjun (Institute of Modern Physics, Chinese Academy of Sciences); ZHENG, shijun (Institute of Modern Physics, Chinese Academy of Sciences); OU, Xianjin

TUE-PO1-106-05: HTS Dipole Magnet Model for the Persistent Current Operation

KASHIKHIN, VLADIMIR (Fermilab); TURRIONI, Daniele (FNAL (US))

On-line 7:00 - 8:00, On-site 13:15 - 15:15, On-line 21:00 - 22:00

2F Multipurpose Hall

TUE-PO1-110 High Field Accelerator Magnets I: Nb3Sn

Session Moderator: Michinaka Sugano, KEK

TUE-PO1-110-02: Construction and test of the enhanced Racetrack Model Coil, first CERN R&D magnet for the FCC

PEREZ, Juan Carlos (CERN); IZQUIERDO BERMUDEZ, Susana (CERN) ; CHIUCHIOLO, Antonella (CERN); PETRONE, Carlo (CERN); TOMMASINI, Davide (CERN); WILLERING, Gerard (CERN); BAJKO, Marta (CERN); GUINCHARD, Mickael (CERN); BOURCEY, Nicolas (CERN); FERRADAS TROITINO, Salvador (CERN)

TUE-PO1-110-03: Design and Digital Twin of INFN's main Nb3Sn 15T Dipole for CERN's FCC

KOKKINOS, Charilaos (FEAC Engineering P.C.); FARINON, Stefania (INFN e Universita Genova (IT)); PAMPALONI, Alessandra (INFN Genova); KOKKINOS, SOTIRIS (FEAC Engineering P.C.); LOUKAS, Konstantinos (FEAC Engineering P.C.); GORTSAS, Thodoris (FEAC Engineering P.C.); POLYZOS, Demosthenes (University of Patras); RODOPOULOS, Dimitris (University of Patras)

TUE-PO1-110-04: Design of CCT6: a large-aperture, 12 T, Nb3Sn Dipole Magnet

BROUWER, Lucas (Lawrence Berkeley National Laboratory); ARBELAEZ, Diego; JUCHNO, Mariusz (LBNL); FERRACIN, Paolo; RUDEIROS FERNANDEZ, Jose Luis; VALLONE, Giorgio (Lawrence Berkeley National Lab. (US))

TUE-PO1-110-05: Development of a 120-mm aperture Nb3Sn dipole coil with stress management

NOVITSKI, Igor (FERMILAB); ZLOBIN, Alexander (Fermilab); BARZI, emanuela (Fermilab); TURRIONI, Daniele (FNAL (US))

TUE-PO1-110-06: Investigation of the pre-load effect on the performance of common-coil dipole magnets

WANG, Yingzhe (IHEP); ZHANG, Zhen (Institute of High Energy Physics, Chinese Academy of Sciences); WANG, Chengtao (Institute of High Energy Physics, University of Chinese Academy of Sciences); SHI, Jinrui (Institute of High Energy Physics, Chinese Academy of Sciences); FENG, Ze (Institute of High Energy Physics, Chinese Academy of Sciences); LI, Chunyan (Institute of High Energy Physics, Chinese Academy of Sciences); YAO, Huanli (Institute of High Energy Physics, Chinese Academy of Sciences); KANG, Rui (Institute of High Energy Physics, CAS); WANG, Juan (IHEP); XU, Qingjin (IHEP)

TUE-PO1-110-07: Mechanical Design of the Nb3Sn Cos-theta Short Model Dipole for the Future Circular Collider

PAMPALONI, Alessandra (INFN Genova); BELLOMO, giovanni; BURIOLI, Sergio (INFN Genova); CAIFFI, Barbara; DE MATTEIS, Ernesto (INFN); FABBRICATORE, Pasquale (INFN e Universita Genova (IT)); FARINON, Stefania (INFN e Universita Genova (IT)); LACKNER, Friedrich (CERN); LEVI, Filippo (INFN); MARIOTTO, Samuele (University of Milan INFN Milan); MUSENICH, Riccardo (INFN e Universita Genova (IT)); PRIOLI, Marco (INFN Milano); SORBI, Massimo (INFN Milano); STATERA, Marco (INFN

Milano LASA); VALENTE, Riccardo Umberto (LASA-INFN (Milano, Italy))

On-line 7:00 - 8:00, On-site 13:15 - 15:15, On-line 21:00 - 22:00

2F Multipurpose Hall

TUE-PO1-113 HL-LHC Accelerator Magnets III: NbTi

Session Moderator: Michinaka Sugano, KEK

TUE-PO1-113-01: Conceptual Design of the HL-LHC Hollow electron lens superconducting magnet system

FOUSSAT, Arnaud Pascal (CERN); KOLEHMAINEN, Antti (CERN); REDAELLI, Stefano (CERN); ROSSI, Adriana (CERN); WOZNIAK, Mariusz (CERN); PERINI, Diego (CERN); PETRONE, Carlo (CERN); FERLIN, Gerard (CERN); BRAGIN, Alexey (Budker Institute of Nuclear Physics); NIKIFOROV, Danila (Budker Institute of Nuclear Physics (RU)); PAVLYUCHENKO , Vadim (Budker Institute of Nuclear Physics)

TUE-PO1-113-02: Presentation withdrawn

TUE-PO1-113-03: Design of a double aperture Canted-cosine-theta orbit corrector for the High Luminosity LHC

RUBER, Roger (Uppsala University (SE)); PEPITONE, Kevin (Uppsala University); KIRBY, Glyn (CERN); OLSSON, Anna (Scanditronix Magnet AB); AHL, Anton (Scanditronix Magnet AB); MATHIAS, Johansson (Vattenskarningsteknik i Vislanda AB); LINDSTRÖM, Jonathan (Ryd-Verken AB); DUGIC, Izudin (Linneaus University); KARLSSON, Gustav (Linneaus University); KOVACIKOVA, Janka (Linneaus University); SVENSSON, Tony (Ryd-Verken AB)

TUE-PO1-113-04: Magnetic measurements of a full-scale prototype of the HL-LHC beam separation dipole

MUSSO, Andrea (CERN); TODESCO, Ezio (CERN); IKEDA, Hiroshi (High Energy Accelerator Research Organization); KAWAMATA, Hiroshi (High Energy Accelerator Research Organization); SASAKI, Ken-ichi (High Energy Accelerator Research Organization); SUZUKI, Kento (High Energy Accelerator Research Organization); SUGANO, Michinaka (High Energy Accelerator Research Organization); OKADA, Naoki (High Energy Accelerator Research Organization); KIMURA, Nobuhiro (University of Tokyo); NAKAMOTO, Tatushi (High Energy Accelerator Research Organization); OGITSU, Toru (High Energy Accelerator Research Organization); IKEMOTO, Yukiko (High Energy Accelerator Research Organization)

TUE-PO1-113-05: Magnetic Measurements on the Twin Aperture Orbit Correctors for HL-LHC at IMP

YANG, Wenjie (Institute of modern physics, Chinese academy of sciences); NI, Dongsheng (Institute of Modern Physics Chinese Academy of Sciences); MEI, Enming (IMPCAS); YANG, Jing (Institute of Modern Physics Chinese Acdemy of Sciences); MA, Lizhen (Institute of Modern Physics, Chinese Academy of Sciences); YAO, Qinggao (Institute of Modern Physics, Chinese Academy Sciences); WU, Wei (Institute of Modern Physics, Chinese Academy of Sciences); FENG, Wentian (Institute of Modern Physics, CAS); OU, Xianjin

TUE-PO1-113-06: Presentation withdrawn

TUE-PO1-113-07: Presentation withdrawn

TUE-PO1-113-08: Quench Behaviour of Prototype HL-LHC Dipole Canted Cos-Theta Orbit Corrector Nb-Ti Magnet
WOZNIAK, Mariusz (CERN); RAVAIOLI, Emmanuele (CERN); MANGIAROTTI, Franco Julio (CERN); MENTINK, Matthias (CERN); KIRBY, Glyn (CERN); VERWEIJ, Arjan (CERN); XU, Qingjin (IHEP); WU, Wei (Institute of Modern Physics, Chinese Academy of Sciences)

TUE-PO1-113-09: Quench Protection of the HL-LHC Hollow Electron Lens Superconducting Solenoid Magnets
WOZNIAK, Mariusz (CERN); FOUSSAT, Arnaud Pascal (CERN); YAMMINE, Samer (CERN); STECKERT, Jens (CERN); RAVAIOLI, Emmanuele (CERN); VERWEIJ, Arjan (CERN); KOLEHMAINEN, Antti (CERN); REDAELLI, Stefano (CERN); ROSSI, Adriana (CERN); PERINI, Diego (CERN)

TUE-PO1-113-10: Test Results of the MQYYM: a 90 mm NbTi quadrupole magnet option for HL-LHC
SIMON, Damien; PERRAUD, Simon (Universite Paris-Saclay (FR)); FELICE, Helene (CERN); GODON, Romain (CEA); RICARDO, Correia-Machado (CEA); GHELLER, jean marc (CEA/IRFU); MADUR, Arnaud (CEA Saclay); SEGRETI, Michel; HERVIEU, Bertrand (CEA Saclay); MOLINIE, frederic (CEA Saclay); GUIHARD, Quentin (CEA); FOUSSAT, Arnaud Pascal (CERN); PEREZ, Juan Carlos (CERN); PETRONE, Carlo (CERN); FISCARELLI, Lucio (CERN); BONORA, Matthias (CERN); TODESCO, Ezio (CERN); BOUZIAT, Denis (CEA-Saclay); STEPANOV, Vadim (CEA-Saclay); DE ANTONI, Philippe (CEA -Saclay); RELLAND, Johan (CEA Saclay)

TUE-PO1-113-11: The separation-recombination dipole MBRD for the High-Luminosity LHC: from prototype to series
LEVI, Filippo (INFN); BERSANI, Andrea; CAIFFI, Barbara; CERESETO, Roberto (INFN Genova); FABBRICATORE, Pasquale (INFN e Universita Genova (IT)); FARINON, Stefania (INFN e Universita Genova (IT)); FOUSSAT, Arnaud Pascal (CERN); PAMPALONI, Alessandra (INFN Genova); TODESCO, Ezio (CERN)

On-line 7:00 - 8:00, On-site 13:15 - 15:15, On-line 21:00 - 22:00

2F Multipurpose Hall

TUE-PO1-115 Permanent accelerator magnets

Session Moderator: Michinaka Sugano, KEK

TUE-PO1-115-01: A Low-Temperature-Dependent Calibration of Hall probes for CPMU
CHEN, Chih Wei (National Synchrotron Radiation Research Center); HSU, Yang-Yang (National Synchrotron Radiation Research Center); YANG, Chin-Kang (National Synchrotron Radiation Research Center); CHEN, Hsiung (National Synchrotron Radiation Research Center); HUANG, Jui-Che (National Synchrotron Radiation Research Center)

TUE-PO1-115-02: Development of Hybrid Multipole Permanent Magnet for High-Intensity Beam Transportation
FUWA, Yasuhiro (Japan Atomic Energy Agency); IWASHITA, Yoshihisa (Kyoto University); TAKAYANAGI, Tomohiro (JAEA/J-PARC)

TUE-PO1-115-03: Performance of Bipolar Correction Magnet with Permanent Magnets
KURIYAMA, Yasutoshi (Kyoto University); IWASHITA, yoshihisa; FUWA, Yasuhiro (Japan Atomic Energy Agency); TERUNUMA, Nobuhiro

TUE-PO1-115-04: Property of Praseodymium Permanent Magnet for Cryogenic Hybrid Magnet
FUWA, Yasuhiro (Japan Atomic Energy Agency); IWASHITA, yoshihisa

TUE-PO1-115-05: Radiation-Induced Demagnetization Measurement of Permanent Magnet Materials by Systematic Neutron Irradiation
FUWA, Yasuhiro (Japan Atomic Energy Agency); KURIYAMA, Yasutoshi (Kyoto University); IWASHITA, Yoshihisa; TAKAYANAGI, Tomohiro (JAEA/J-PARC); TAKAMIYA, Koichi (Kyoto University)

On-line 7:00 - 8:00, On-site 13:15 - 15:15, On-line 21:00 - 22:00

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TUE-PO1-203 Fusion III: ITER

Session Moderator: Norikiyo Koizumi, QST

TUE-PO1-203-01: Analysis of AC losses in the tests of the ITER CS Module #2
BRESCHI, Marco (Universita e INFN, Bologna (IT)); CAVALLUCCI, Lorenzo (University of Bologna); BAUER, Pierre (ITER Organization); GAUTHIER, Florent (ITER Organization); BONIFETTO, Roberto (Politecnico di Torino); ZANINO, Roberto (Politecnico di Torino); ZAPPATORE, Andrea (Politecnico di Torino); MARTOVETSKY, Nicolai (ORNL); KHUMTHONG, Kenneth (General Atomics); ORTIZ, Ed (General Atomics); SHEERON, Jeff (General Atomics)

TUE-PO1-203-02: Current Centre Line calculation method and results for ITER Poloidal Field Coils
JIMÉNEZ OÑATE, Andrés (FUSION FOR ENERGY); MARC, Ferrater (ISQ); PALLAS, Guim (FUSION FOR ENERGY); JIMENEZ, Marc (Fusion For Energy); BONITO-OLIVA, Alessandro (Fusion for Energy); MARTINEZ LOPEZ, Monica (FUSION FOR ENERGY)

TUE-PO1-203-03: Current Centre Line control, results and comparison after the manufacturing of the ITER Toroidal Field Coils
JIMENEZ, Marc (Fusion For Energy); FERRATER, Marc (ISQ); BELLESIA, boris (fusion for energy); VILADIU, Eduard (Fusion for Energy); APRILI, Piergiorgio (Fusion for Energy); BONITO-OLIVA, Alessandro (Fusion for Energy)

TUE-PO1-203-04: Development of a AC Loss Model for the ITER CS Coils
BAUER, Pierre (ITER Organization); BRESCHI, Marco (Universita e INFN, Bologna (IT)); CAVALLUCCI, Lorenzo (University of Bologna); DUCHATEAU , Jean-Luc (CEA Cadarache IRFM); GAUTHIER, Florent (ITER Organization); TORRE, Alexandre (CEA); TURCK, Bernard (CEA Cadarache IRFM)

TUE-PO1-203-05: Presentation withdrawn

TUE-PO1-203-06: Examination and Characterization of Physical and Mechanical Properties of the ITER Central Solenoid Module Coils
SGOBBA, Stefano (CERN); AVILES SANTILLANA, Ignacio (CERN); LOURENCO, Sandra Sophie (Institut National Polytechnique de Grenoble (FR)); GUINCHARD, Michael (CERN); SACRISTAN DE FRUTOS, Oscar; JONG, Cornelis (ITER Organization); LIBEYRE, Paul (ITER Organization); SCHILD, Thierry (Iter); GAXIOLA, Enrique (ITER Organization); BENNET, Jose (CEA Saclay IRFU/DACM); MAYRI, Christophe (CEA Saclay); SMITH, John (General Atomics); EVERITT, David (5ak Ridge National Laboratory, US ITER Project); FREUDENBERG, Kevin (Oak Ridge National Laboratory)

TUE-PO1-203-07: Factory acceptance test and delivery of the first two poloidal field coils to ITER fusion facility
MARTINEZ LOPEZ, Monica (Fusion for Energy); BONITO-OLIVA, Alessandro (Fusion for Energy); VALENTE, Pierluigi (F4E); BOUTBOUL, Thierry (F4E); CARVAS, Pedro (F4E); LOIZAGA, Ander (F4E); ROMANO, Gennaro (Fusion for Energy); CALCHI, Giacomo (Fusion for Energy); APRILI, Piergiorgio (Fusion for Energy); HARRISON, Robert (Fusion for Energy); GAVOUYERE-LASSERRE, Pierre (Fusion for Energy); VIZIO, Enrico (Fusion for Energy); ROSSI, Daniel (Fusion for Energy); BATISTA, Rita (Fusion for Energy); MAGOURI, Nizar (LATESYS); PAIVA, Vera (Fusion for Energy); CASARIN, Valerie (Fusion for Energy); JIMENEZ, Marc (Fusion For Energy); READMAN, Peter (Fusion for Energy); BYUNG SU, Lim (ITER); GAXIOLA, Enrique (ITER Organization); GUANG , Shen (ASIPP); CAVANNA, Eugenio (ASG); BERSIER, Jean Louis; ILIN, Yury (ITER Organization); MUSSINATTO, Adriano (Criotec Impianti S.p.A); PIZZIGONI, Giulio (ASG Superconductors S.p.A); AMADUZZI, Alberto (ASG Superconductors S.p.A); SBORCHIA, Carlo (European Commission); LIAO, Min (ITER); MITCHELL, Neil; BAIKALOV, Andrei (ITER)

TUE-PO1-203-08: Feasibility Study of ITER In-Vessel Coils Bracket Manufacture and Integration
XU, Aihua (institute of plasma physics Chinese academy of sciences); WU, kaihong (Institute of plasma physics, Chinese academy of sciences); ZHANG, Yongliang (Chinses Academy of Science)

TUE-PO1-203-09: Homogenization of Winding Pack Properties for the Structural Analysis of Fusion Magnets
LORENZO, Jose (Barcelona Supercomputing Center (BSC)); MANTSINEN, Mervi (Barcelona Supercomputing Center (BSC); ICREA)

TUE-PO1-203-10: Manufacturing of ITER PF2-6 Coil
LIM, Byung Su (ITER); ILIN, Yury (ITER); MARTINEZ LOPEZ, Monica (F4E); VALENTE, Pierluigi (F4E); SIMON, Fabrice (ITER); BAIKALOV, Andrei (ITER); GUANG , Shen (ASIPP); CARVAS, Pedro (F4E); CAVANNA, Eugenio (ASG); MITCHELL, Neil (ITER); LIAO, Min (ITER); BONITO-OLIVA, Alessandro (F4E); QING, Hua (ITER); LOIZAGA, Ander (F4E); SBORCHIA, Carlo (F4E); BOUTBOUL, Thierry (F4E)

TUE-PO1-203-11: Metrology in process control for the European Toroidal Field Coil project
POMPA, Edoardo (Fusion for Energy); LO BUE , Alessandro (Fusion for Energy); BELLESIA, Boris

(Fusion for Energy); JIMENEZ, Marc (Fusion for Energy); FERRATER, Marc (Fusion for Energy); BONITO OLIVA, Alessandro (Fusion for Energy)

TUE-PO1-203-12: Review of experimental results and parameters for evaluation of AC losses of the ITER conductors
TORRE, Alexandre (CEA); VOSTNER, Alexander (ITER); GAUTHIER, Florent (ITER Organization); BAUER, Pierre (ITER Organization); TURCK, Bernard (CEA Cadarache IRFM); DUCHATEAU , Jean-Luc (CEA Cadarache IRFM)

TUE-PO1-203-13: Status of the production of the European ITER Toroidal Field Coil Insertion.
BELLESIA, boris (fusion for energy); APRILI, Piergiorgio (Fusion for Energy); BOTER, EVA (FUSION FOR ENERGY); BONITO-OLIVA, Alessandro (Fusion for Energy); JIMENEZ, Marc (Fusion For Energy); VILADIU, Eduard (Fusion for Energy); POZUELO, Eduardo (Fusion for Energy); HARRISON, Robert (Fusion for Energy); KOCZOROWSKI, Sebastien (ITER); LO BUE, Alessandro (Fusion for Energy); POMPA, Edoardo (Fusion for Energy)

TUE-PO1-203-14: Presentation withdrawn

TUE-PO1-203-15: The result of ITER TF coil double-pancake heat treatment in Japan
KAJITANI, Hideki (National Institutes for Quantum and Radiological Science and Technology); MATSUI, Kunihiro (National Institute for Quantum and Radiological Science and Technology); NAKAMOTO, Mio; KOIZUMI, Norikiyo (QST); NAKAHIRA, Masataka

On-line 7:00 - 8:00, On-site 13:15 - 15:15, On-line 21:00 - 22:00

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TUE-PO1-305 HTS/LTS coil

Session Moderator: Yu Suetomi, RIKEN

TUE-PO1-305-01: Presentation withdrawn

TUE-PO1-305-02: Concept Design Study of a Conductor Test Facility Magnet over 16T
KIM, Hyun Wook (Korea Institute of Fusion Energy); OH, Sangjun (Korea Institute of Fusion Energy); KIM, Young-Gyun (Korea Institute of Fusion Energy)

TUE-PO1-305-03: conceptual design of closed-loop HTS magnet with thermal switch
ZHU, Lingfeng (the State Key Lab of New Energy Renewable Power System, North China Electric Power University); WANG, Yinshun (the State Key Lab of New Energy Renewable Power System, North China Electric Power University); LIU, Wei (the Key Lab of HV and EMC Beijing Electrical, North China Electric Power University); LIU, Yating (the Key Lab of HV and EMC Beijing Electrical, North China Electric Power University); WANG, Jiawen (the State Key Lab of New Energy Renewable Power System, North China Electric Power University); PI, Wei (the Key Lab of HV and EMC Beijing Electrical, North China Electric Power University)

TUE-PO1-305-04: [Invited] Conceptual Design Study of the Outsert superconducting Coils of the Hybrid Magnets
JIANG, Donghui (The High Magnetic Field Laboratory, Chinese Academy of Sciences); QIAN, Xinxing; JIANG, Shili; YANG, Shige; FANG, Zhen; CHEN, Wenge; KUANG, Guangli

TUE-PO1-305-05: Conductively-Cooled, High-Field, High-Current, Non-Insulated, High Temperature Superconducting Magnet for Fusion Research and Other Applications
PIEC, Zbigniew (General Atomics); ANDREWS, Ben (E2P); BEHARRELL, Paul (GA); BENSON, Andrew (GA); BRENEMAN, Bruce (Breneman Consulting); LANGHORN, Alan (Startech Inc); REY, Chris (E2P)

TUE-PO1-305-06: Cyclic Axial Pressure Limits of REBCO Double Pancake Coils with Variable Co-wind Dimensions at 77 K
DIXON, Iain (NHMFL / Florida State University); BUCHHOLZ, Kyle (National High Magnetic Field Laboratory); WALSH, Robert (Florida State University); BOSQUE, Ernesto (National High Magnetic Field Laboratory); BAI, Hongyu (National High Magnetic Fied Laboratory)

TUE-PO1-305-08: Fabrication and characterization of BSCCO-2223 tape based compact coils
PRASAD, Upendra (Institute For Plasma Research); RAJ, Piyush (Institute For Plasma Research); BANO, Anees (Institute For Plasma Research); PANCHAL, Arun (Institute For Plasma Research); KANABAR, Deven (Institute For Plasma Research); SRINIVASAN, R (Institute For Plasma Research)

TUE-PO1-305-09: Feasibility Study on CCT Magnet Design based on Narrow-Stacked HTS wire
WANG, Mingyang (Shanghai Jiao Tong University)

TUE-PO1-305-10: Finite Element Analysis of AC Loss Properties in Pancake Coils Wound Using Two-ply Bundle Conductor
KAJIKAWA, Kazuhiro (Sanyo-Onoda City University); ZHU, Botao (Kyushu University); AWAJI, Satoshi (Tohoku University); BADEL, Arnaud (Tohoku University); TAKAHASHI, Kohki (Tohoku University); OKADA, Tatsunori (Tohoku University); ABE, Toru (Tohoku University)

TUE-PO1-305-11: Further analysis of the mechanical and thermal properties of ice in the ice impregnated high temperature superconducting coils
GUANGDA, Wang (State Grid Energy Research Institution)

TUE-PO1-305-12: Presentation withdrawn

TUE-PO1-305-13: Lap joint resistivity and crossover resistance of REBCO conductors and coils
MARSHALL, William (National High Magnetic Field Laboratory); VORAN, Adam (National High Magnetic Field Laboratory); BOSQUE, Ernesto (National High Magnetic Field Laboratory); BAI, Hongyu (National High Magnetic Fied Laboratory); DIXON, Iain (Florida State University); LU, Jun (NHMFL); BUCHHOLZ, Kyle (National High Magnetic Field Laboratory); WALSH, Robert (Florida State University)

On-line 7:00 - 8:00, On-site 13:15 - 15:15, On-line 21:00 - 22:00

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TUE-PO1-402 Magnets for Medical App I

Session Moderator: Yu Suetomi, RIKEN

TUE-PO1-402-02: Design and Development of Curved CCT Dipole Magnets for a Proton Therapy Gantry
WEI, Shaoqing (Institute of Plasma Physics, Chinese Academy of Sciences); XI, Weibin (Institute of Plasma Physics, Chinese Academy of Sciences); NI, Xiaojun (ASIPP); ZHAO, wenlong (Institute of Plasma Physics, Chinese Academy of Sciences); LIU, Sumei (Institute of Plasma Physics, Chinese Academy of Sciences); ZHENG, Jinxing (Institute of Plasma Physics, Chinese Academy of Sciences); SONG, Yuntao (Institute of Plasma Physics, Chinese Academy of Sciences)

TUE-PO1-402-03: Design and Test of a Bended Canted-Cosine-Theta Superconducting Magnet for a Laser Proton Radiotherapy System
ZHAO, Jigang (Institute of Electrical Engineering, Chinese Academy of Sciences); WANG, Yaohui (Institute of Electrical Engineering, Chinese Academy of Sciences); HU, Xinning (Institute of Electrical Engineering, Chinese Academy of Sciences); WANG, Qiuliang (Institute of Electrical Engineering, Chinese Academy of Sciences)

TUE-PO1-402-04: Electromagnetic design of the superconducting magnet for a compact heavy-ion synchrotron
FUJIMOTO, Tetsuya (Accelerator Engineering Corporation); ABE, Yasushi (National Institutes for Quantum and Radiological Science and Technology); IWATA, Yoshiyuki (National Institutes for Quantum and Radiological Science and Technology); MATSUBA, Shunya (National Institutes for Quantum and Radiological Science and Technology); NODA, Etsuo (National Institutes for Quantum and Radiological Science and Technology); SHIRAI, Toshiyuki (National Institutes for Quantum and Radiological Science and Technology); URATA, Masami (National Institutes for Quantum and Radiological Science and Technology); YANG, Ye (National Institutes for Quantum and Radiological Science and Technology); ORIKASA, Tomofumi (Toshiba Energy Systems & Solutions Corporation); TAKAYAMA, Shigeki (Toshiba Energy Systems & Solutions Corporation); AMANO, Saki (Toshiba Energy Systems & Solutions Corporation); NAKANISHI, Kosuke (Toshiba Energy Systems & Solutions Corporation); YOSHIYUKI, Takeshi (Toshiba Energy Systems & Solutions Corporation); HIRATA, Yutaka (Toshiba Energy Systems & Solutions Corporation); MIZUSHIMA, Kota (National Institutes for Quantum and Radiological Science and Technology)

TUE-PO1-402-05: Electromagnetic-structural analysis of a superconducting magnet with active shielding for a rotating gantry
OBANA, Tetsuhiro (NIFS)

TUE-PO1-402-06: Feasibility Study on a Real-Scale High-Frequency Electromagnets for Magnetic Hyperthermia Base on a Magnetic Scaling Law
HANG, XU; ISOBE, Takanori (University of Tsukuba); KAMADA, Hiroharu (Meiji University); NOMURA,

Shinichi (Meiji University)

TUE-PO1-402-07: Magnetic alignment and mechanical analysis of superconducting bending section for proton therapy
CALZOLAIO, Ciro (Paul Scherrer Institut); SANFILIPPO, stephane (Paul Scherrer Institut); SCHIPPERS, Jacobus Maarten (Paul Scherrer Institute); TRILLAUD, Frederic (Instituto de Ingenieria, Universidad Nacional Autonoma de Mexico)

TUE-PO1-402-08: Rotating gantry for heavy ion therapy mounted with superconducting bending and focusing magnets
TAKAYAMA, Shigeki (Toshiba Energy Systems & Solutions Corporation); YAZAWA, Takashi (Toshiba Energy Systems & Solutions Corporation); KISHIMOTO, Naoki (Toshiba Energy Systems & Solutions Corporation); MISAWA, Masato (Toshiba Energy Systems & Solutions Corporation); NAGAMOTO, Yoshifumi (Toshiba Energy Systems & Solutions Corporation); AMANO, Saki (Toshiba Energy Systems & Solutions Corporation); ORIKASA, Tomofumi (Toshiba Energy Systems & Solutions Corporation); HIRATA, Yutaka (Toshiba Energy Systems & Solutions Corporation); KANAI, Takayuki (Yamagata University); SOUDA, Hikaru (Yamagata University); IWAI, Takeo (Yamagata University)

TUE-PO1-402-09: Thermal analysis of powering and protection transients in a superconducting magnet for medical applications
FERRENTINO, Vittorio (CERN); RAVAIOLI, Emmanuele (CERN); KARPPINEN, Mikko (CERN); KOKKINOS, Charilaos

TUE-PO1-402-10: Thermal design and test results of the superconducting magnet for a compact heavy-ion synchrotron
TAKAYAMA, Shigeki (Toshiba Energy Systems & Solutions Corporation); AMANO, Saki (Toshiba Energy Systems & Solutions Corporation); ORIKASA, Tomofumi (Toshiba Energy Systems & Solutions Corporation); NAKANISHI, Kosuke (Toshiba Energy Systems & Solutions Corporation); YOSHIYUKI, Takeshi (Toshiba Energy Systems & Solutions Corporation); HIRATA, Yutaka (Toshiba Energy Systems & Solutions Corporation); FUJIMOTO, Tetsuya (Accelerator Engineering Corporation); IWATA, Yoshiyuki (National Institutes for Quantum and Radiological Science and Technology); MIZUSHIMA, Kota (National Institutes for Quantum and Radiological Science and Technology); ABE, Yasushi (National Institutes for Quantum and Radiological Science and Technology); URATA, Masami (National Institutes for Quantum and Radiological Science and Technology); NODA, Etsuo (National Institutes for Quantum and Radiological Science and Technology); MATSUBA, Shunya (National Institutes for Quantum and Radiological Science and Technology); YANG, Ye (National Institutes for Quantum and Radiological Science and Technology); SHIRAI, Toshiyuki (National Institutes for Quantum and Radiological Science and Technology)

On-line 7:00 - 8:00, On-site 13:15 - 15:15, On-line 21:00 - 22:00

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TUE-PO1-504 Special purpose magnets I: Field gradients & other

Session Moderator: Satoshi Fukui, Niigata University

TUE-PO1-504-01: Design and Characteristics Analysis of a Laboratory Electromagnet applying HTS Coils
HWANG, Young Jin (Korea Maritime and Ocean University)

TUE-PO1-504-02: Design and experiment of the conduction cooled superconducting magnet for crystal growth application
CHENG, Junsheng (Institute of Electrical Engineering, Chinese Academy of Sciences and University of Chinese Academy of Sciences); WANG, Yaohui (Institute of Electrical Engineering, Chinese Academy of Sciences); LIU, Hui (Institute of Electrical Engineering, Chinese Academy of Sciences); CHEN, Shunzhong (Institute of Electrical Engineering, Chinese Academy of Sciences); DAI, Yinming (Institute of Electrical Engineering, Chinese Academy of Sciences); WANG, Qiuliang (Institute of Electrical Engineering, Chinese Academy of Sciences and University of Chinese Academy of Sciences)

TUE-PO1-504-03: Development of novel magnetic separation for paramagnetic particles using the selection tube
MISHIMA, Fumihito (Fukui University of Technology); NOMURA, NAOKI (FUKUI UNIVERSITY OF TECHNOLOGY); NISHIJIMA, SHIGEHIRO (FUKUI UNIVERSITY OF TECHNOLOGY)

TUE-PO1-504-04: Reinforcement Structure of HTS Magnet to Increase the Magnetic Moment for Space Application
NAGASAKI, Yoh (Tohoku University); MARUYAMA, Masaki (Tohoku University); TSUDA, Makoto (Tohoku University); FUNAKI, Ikkoh (Japan Aerospace Exploration Agency)

TUE-PO1-504-05: Removal of Iron Oxide Scale from Boiler Feed-water in Thermal Power Plant by Magnetic Separation -Aggregation States of Oxygenated Treatment Scale-
OKUMURA, Masao (Osaka University); AKIYAMA, Yoko (Osaka University); MORI, Tatsuya (Osaka University); OKADA, Hidehiko (National Institute for Materials Science); HIROTA, Noriyuki (National Institute for Materials Science); YAMAJI, Tsuyoshi (Shikoku Research Institute Inc.); MATSUURA, Hideki (Shikoku Research Institute Inc.); NAMBA, Seitoku (Shikoku Research Institute Inc.); SEKINE, Tomokazu (Ebara Industrial Cleaning Co., Ltd.); MISHIMA, Fumihito (Fukui University of Technology); NISHIJIMA, Shigehiro (Fukui University of Technology)

TUE-PO1-504-06: Removal of magnetic fine particles from non-magnetic fine powder by high gradient magnetic separation under dry condition
HAOZHOU, Chen (Tokyo Met. University); MIURA, Osuke (Tokyo Met. University)

TUE-PO1-504-07: Separation of Microplastics from Sea Water by Means of Electromagnetic Force
NOMURA, NAOKI (Fukui University of Technology); SHIGEHIRO, Nishijima (Fukui University of Technology); MISHIMA, Fumihito (Fukui University of Technology)

TUE-PO1-504-08: Superconducting Magnet Design for a Vertical-ring High Gradient Magnetic Separation System
ZHENG, Hengkang (Huazhong University of Science and Technology); SONG, Yunxing (Huazhong University of Science and Technology); LIU, Mengyu (Huazhong University of Science and Technology); WANG, Fengyu (Institute of Resources Comprehensive Utilization,Guangdong Academy of Sciences); XU, Limin (Institute of Resources Comprehensive Utilization,Guangdong Academy of

Sciences); WANG, Lijuan (Institute of Resources Comprehensive Utilization,Guangdong Academy of Sciences); LI, Liang (Huazhong University of Science and Technology)

TUE-PO1-504-09: Validation of a high-gradient trapped field magnet with an open bore providing a quasi-microgravity space on Earth and its application to magnetic levitation
TAKAHASHI, Keita (Iwate University); FUJISHIRO, Hiroyuki (Iwate University); AINSLIE, Mark (University of Cambridge)

On-line 7:00 - 8:00, On-site 13:15 - 15:15, On-line 21:00 - 22:00

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TUE-PO1-506 Superconducting Rotating Machines, Linear Machines, and

Session Moderator: Satoshi Fukui, Niigata University

TUE-PO1-506-01: Presentation withdrawn

TUE-PO1-506-02: Comparative Design Study of HTS Synchronous Motor with Inner and Outer Rotor Type Based on Multi-Objective Optimization
JUNG, Seok-Won (Seoul National University); YOON, Jonghoon (Seoul National University); CHOI, Kibum (Seoul National University); BANG, Jeseok (Seoul National University); AN, Soobin (Seoul National University); BONG, Uijong (Seoul National University); HAHN, Seungyong (Seoul National University)

TUE-PO1-506-03: Comparative Study of MW class Superconducting Machines according to Shielding and Electromagnetic Structures Based on Analytical Method
SHIN, Kyung-Hun (Chonnam National University); BANG, Tae-Kyoung (Republic of Korea/Chungnam National University); CHOI, Jang-Young (Chungnam National University); CHO, Han-Wook (Chungnam National University)

TUE-PO1-506-04: Design and Preliminary Experiments of Rotating Armature Partial Superconducting Air Core Generator
CHO, Han-Wook (Chungnam National University); BANG, Tae-Kyoung (Republic of Korea /Chungnam National University); LEE, Jeong-In (CHUNGNAM NATIONAL UNIVERSITY); HEO, Jin-Seok (Chungnam National University); LEE, Hu-Seung (Chungnam National University); SHIN, Kyung-Hun (Chonnam National University); HARAN, Kiruba (University of Illinois)

TUE-PO1-506-05: Design and Analysis of a Revolving Armature type Axial Flux High-Temperature Superconducting Motor
LEE, Jun-Yeop (Changwon national university); LEE, Seok-Ju (Changwon National University); NAM, Gi-Dong (Changwon National University); PARK, Minwon (Changwon National University)

TUE-PO1-506-06: Experimental test and characteristic analysis of a real scale HTS coil for 10 MW HTS generator using performance evaluation system
KIM, Changhyun (Changwon National University); SUNG, Hae-Jin (Changwon National University); GO,

Byeong-Soo (Changwon National University); KIM, Seokho (Changwon National University); PARK, Minwon (Changwon National University)

TUE-PO1-506-07: Investigation of Halbach arrays for a fully superconducting motor in application to electric aircrafts
LIU, Yingzhen (Harbin Institute of Technology)

TUE-PO1-506-08: Numerical Analysis of 2 MW Fully Superconducting Synchronous Motor for Electric Aircraft Considering AC Loss in Field Winding
MATSUMOTO, Kazane; SASA, Hiromasa; MIURA, Shun (Kyushu University); MATSUMOTO, Keishi; MIYAZAKI, Hiroshi (Kyushu University); YOSHIDA, Takashi (Kyushu University); SASAYAMA, Teruyoshi (Kyushu University); YAMAMOTO, Kaoru (Kyushu University); IWAKUMA, Masataka; KAWAGOE, Akifumi (Kagoshima University); IZUMI, Teruo (Advanced Industrial Science and Technology (AIST)); SASAMORI, Yuichiro (Fuji Electric Co. Ltd.); HONDA, Hirokazu (Fuji Electric Co. Ltd.); KONNO, Masayuki (Fuji Electric Co. Ltd.); HASE, Yoshiji (Fuji Electric Co. Ltd.)

TUE-PO1-506-09: Numerical Prediction of HTS Closed Coil Current Decay for Synchronous Motor Application
ZHAI, Yao (Southwest Jiaotong University); MA, Guangtong; ZHOU, Pengbo (Southwest Jiaotong University)

TUE-PO1-506-10: Preliminary Rotational Test of an HTS Synchronous Motor with Linear-Motor Type Flux Pump Exciters
LONG, Run (Sichuan University); WANG, Wei (Sichuan University)

TUE-PO1-506-11: Thermal-Electromagnetic Coupled Analysis Considering AC Losses in REBCO Windings at 65 K of 10 MW Fully-Superconducting Synchronous Generators for Electric Aircraft
SASA, Hiromasa (Kyushu University); MIURA, Shun (Kyushu University); MIYAZAKI, Hiroshi (Kyushu University); SASAYAMA, Teruyoshi (Kyushu University); YOSHIDA, Takashi (Kyushu University); YAMAMOTO, Kaoru (Kyushu University); IWAKUMA, Masataka (Kyushu University); HASE, Yoshiji (Fuji Electric Company Ltd.); SASAMORI, Yuichiro (Fuji Electric Company Ltd.); HONDA, Hirokazu (Fuji Electric Company Ltd.); KONNO, Masayuki (Fuji Electric Company Ltd.); IZUMI, Teruo (Advanced Industrial Science and Technology (AIST))

On-line 7:00 - 8:00, On-site 13:15 - 15:15, On-line 21:00 - 22:00

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TUE-PO1-509 Maglev and Levitation I

Session Moderator: Taketsune Nakamura, Kyoto University

TUE-PO1-509-01: Analysis of dynamic thermal and mechanical behaviors of HTS magnet for high-speed superconducting maglev
WANG, Lei (Institute of Electrical Engineering, Chinese Academy of Sciences); SUN, Wanshuo

(Institute of Electrical Engineering, Chinese Academy of Sciences); WANG, Luzhong (Institute of Electrical Engineering, Chinese Academy of Sciences); HU, Xinning (Institute of Electrical Engineering, Chinese Academy of Sciences); CHENG, Junsheng (Institute of Electrical Engineering, Chinese Academy of Sciences); LIU, Jianhua (Institute of Electrical Engineering, Chinese Academy of Sciences); ZHANG, Zili (Institute of Electrical Engineering, Chinese Academy of Sciences); WANG, Qiuliang (Institute of Electrical Engineering, Chinese Academy of Sciences)

TUE-PO1-509-02: Presentation withdrawn

TUE-PO1-509-03: A propulsion-function-integrated HTS maglev system based on reversed excitation mode of electromagnetic guideway
HONG, Wei (Tianjin University); XIN, Ying (Tianjin University); WANG, Changqi; LI, Ning (Tianjin University); LU, Jianing (Tianjin University)

TUE-PO1-509-04: Basic Study on Stable Levitation for Magnetically Levitated Mover (MAGLEM) Using High Tc SC Coils
KOMORI, Mochimitsu (Kyushu Institute of Technology); ASAMI, Ken-ichi (Kyushu Institute of Technology); SAKAI, Nobuo (Kyushu Institute of Technology); YAMASE, Ryota (Kyushu Institute of Technology)

TUE-PO1-509-05: Characteristics of magnetic force interaction of CC-tape windings with a permanent magnet guideway.
OSIPOV, Maxim (National Research Nuclear University MEPhI); STARIKOVSKII, Alexandr (National Research Nuclear University MEPhI); ANISHENKO, Irina (National Research Nuclear University MEPhI); POKROVSKII, Sergei (National Research Nuclear University MEPhI); ABIN, Dmitry (National Research Nuclear University MEPhI (Moscow Engineering Physics Institute)); RUDNEV, Igor (National Research Nuclear University MEPhI (Moscow Engineering Physics Institute))

TUE-PO1-509-06: Comparative Study between E-Shaped and Fan-Shaped Electromagnetic Guideway for HTS Maglev
ZHANG, Yan (Tianjin University); XIN, Ying (Tianjin University); HONG, Wei (Tianjin University); LI, Chao (Tianjin University); LI, Ning (Tianjin University); LU, Jianing (Tianjin University); LI, Gengyao (Tianjin University); XING, Yuying (Tianjin University)

TUE-PO1-509-07: Design and Performance for Wireless Power Charging Module combined with HTS Resonance Coils under Different Frequency Ranges in Superconducting MAGLEV Trainv
CHUNG, Yoon Do (Suwon Science College); LEE, Chang-young (Korea Railroad Research Institute); PARK, Eun Young (Korea Christian University)

TUE-PO1-509-08: Presentation withdrawn

TUE-PO1-509-09: Improvement of the propulsion force by the excitation principle of the propulsion coil in the permanent magnet-HTS hybrid Magnetically levitated transport system
TAKINAMI, Alex Hitoshi (Kansai University); SAEKI, Ryo (Kansai University); OHASHI, Shunsuke (Kansai

University)

TUE-PO1-509-10: Levitation properties of magnetic attraction type levitation system having HTS bulk and HTS racetrack magnet
KITAMURA, Toshiki (Sophia University); NAKAMURA, Kota (Sophia University); TAKAO, Tomoaki (Sophia University); NAKAMURA, Kazuya (Sophia University); TSUKAMOTO, Osami (Sophia University)

TUE-PO1-509-11: Numerical study on dynamic characteristics of stack-type HTS Maglev system based on H-formulation
YANG, Wenjiao (Southwest Jiaotong University); MA, Guangtong (Southwest Jiaotong University)

TUE-PO1-509-12: Running State Detection of HTS Pining Maglev System Based on Deep Learning Algorithms
KE, Zhihao (Applied Superconductivity Laboratory, State Key Laboratory of Traction Power, Southwest Jiaotong University); DENG, Zigang (Applied Superconductivity Laboratory, State Key Laboratory of Traction Power, Southwest Jiaotong University); WANG, Li (School of Mechanics and Engineering, Southwest Jiaotong University); ZHANG, Penghui (Applied Superconductivity Laboratory, State Key Laboratory of Traction Power, Southwest Jiaotong University); REN, Kehong (Applied Superconductivity Laboratory, State Key Laboratory of Traction Power, Southwest Jiaotong University)

TUE-PO1-509-13: Simulation and experimental validation of superconducting magnetic levitation suspension system
PENG, Shuhao

On-line 7:00 - 8:00, On-site 13:15 - 15:15, On-line 21:00 - 22:00

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TUE-PO1-513 SMES, Transformers, Wireless Power Transfer

Session Moderator: Taketsune Nakamura, Kyoto University

TUE-PO1-513-01: AC Loss Measurement of Double Pancakes Wound with MgB2 Rutherford Type Superconductor
KOMAGOME, Toshihiro (MAYEKAWA MFG. Co., Ltd.); TAKAHASHI, Masafumi (Sophia University); YAGAI, Tsuyoshi (Sophia University); MAKIDA, Yasuhiro (KEK); SHINTOMI, Takakazu (KEK); HAMAJIMA, Takataro (Tohoku University)

TUE-PO1-513-02: AC loss reduction on a 6.5 MVA/25 kV HTS traction transformer by exploiting asymmetric conductor critical current
WU, Yue (Beijing Jiaotong University); SONG, Wenjuan (University of Bath); WIMBUSH, Stuart C. (Victoria University of Wellington); BADCOCK, Rodney A. (Victoria University of Wellington); FANG, Jin (Beijing Jiaotong University); JIANG, Zhenan (Victoria University of Wellington)

TUE-PO1-513-03: Basic study on coil structure for high-temperature superconducting cable termination applying a wireless power transmission system
INOUE, Ryota (Okayama University); UEDA, Hiroshi (Okayama University); KIM, SEOKBEOM (Okayama University)

TUE-PO1-513-04: Current Source Converter Based Photovoltaic Synchronous Generator Incorporated with a SMES
SANG, Wenju; GUO, Wenyong (Institute of Electrical Engineering, Chinese Academy of Science); CAI, Yang; TIAN, Chenyu; YU, Suhang; XIAO, Liye

TUE-PO1-513-05: Design and Simulation of a 150 kVA Single-Phase HTS Transformer with 1G/2G Hybrid HTS Tapes
PI, Wei (North China Electric Power University); ZHANG, Zhaoyu (North China Electric Power University); YANG, Yu (North China Electric Power University); SUN, Ziyuan (NCEPU); WANG, Ruiqi (North China Electric Power University)

TUE-PO1-513-06: Design of 10MJ toroidal field D-type superconducting energy storage magnet
ZOU, Xinyu (Huazhong University of Science and Technology); REN, Li (Huazhong University of Science and Technology); TANG, Yuejin (Huazhong University of Science and Technology); XU, Ying (Huazhong University of Science and Technology); SHI, Jing (Huazhong University of Science and Technology); LI, Jingdong

TUE-PO1-513-07: Design Study of 3ϕ-10 MVA-6.9/1.0 kV REBCO Superconducting Transformers with Lightweight and Current-Limiting Function for an E-aircraft Propulsion System
SUMIDA, Masashi (Kyushu University); IWAKUMA, Masataka (Kyushu University); SASA, Hiromasa (Kyushu University); MIURA, Shun (Kyushu University); MIYAZAKI, Hiroshi (Kyushu University); KONNO, Masayuki (Fuji Electric Co. Ltd.); IZUMI, Teruo (Advanced Industrial Science and Technology (AIST))

TUE-PO1-513-08: Evaluation of operating characteristics of coils wound with no-insulation REBCO bundle conductor for SMES
MIYAMOTO, Yu (Waseda University); ISHIYAMA, Atsushi (Waseda University); NAGAYA, Shigeo (Chubu Electric Power CO., Inc); WATANABE, Tomonori (Chubu Electric Power CO., Inc.)

TUE-PO1-513-09: Investigation of HTS Power Devices Cooled by LN2/CF4 Mixture
QIU, Qingquan (Institute of Electrical Engineering, Chinese Academy of Sciences); ZHOU, Zhihao (Institute of Electrical Engineering, Chinese Academy of Science); TENG, Yuping (Institute of Electrical Engineering, Chinese Academy of Sciences); SONG, Naihao (Institute of Electrical Engineering, Chinese Academy of Sciences); JING, Liwei (Institute of Electrical Engineering, Chinese Academy of Sciences); ZHANG, Jingye (Institute of Electrical Engineering, Chinese Academy of Sciences); ZHANG, Guomin (Institute of Electrical Engineering, Chinese Academy of Sciences); XIAO, Liye (Institute of Electrical Engineering, Chinese Academy of Sciences)

TUE-PO1-513-10: Multi-Input, Long-Distance, HTS-Based Wireless Charging System for Undersea Sensor Networks

TIAN, Xiaoyang (HKU); CHAU, K. T. (HKU); LIU, Wei (HKU)

TUE-PO1-513-11: Optimized configurations for enhancing the interaction capacity between permanent magnet and superconductor coil
LI, Wenxin (Tianjin University); YANG, Tianhui; XIN, Ying (Tianjin University); LI, Gengyao; LU, Jianing

TUE-PO1-513-12: [Invited] Preliminary tests 12 T REBCO isolated solenoid magnet used as compact 1 MJ SMES.
VIALLE, Julien (Institut Neel CNRS); BADEL, arnaud (CNRS); TIXADOR, Pascal (Grenoble-INP)

TUE-PO1-513-13: Study on Low Loss Coil Structure for High Energy Density of a Wireless Power Transmission System Using High Temperature Superconducting Coils for Railway Vehicle
INOUE, Ryota (Okayama University); UEDA, Hiroshi (Okayama University); KIM, SEOKBEOM (Okayama University)

TUE-PO1-513-14: Study on thermal stability of transformer under external thermal disturbance
TIAN, Binyi; MA, Yuantong; PI, Wei

TUE-PO1-513-15: The influence of SMES magnet operation parameters on voltage distribution characteristic
SHI, Jing (Huazhong University of Science and Technology); XIAO, Zhou (Energy Development Research Institute, CSG); MENG, Liao (Huazhong University of Science and Technology)

TUE-PO1-513-16: The research on double pancake coil of 1MJ high temperature superconducting magnet energy storage for the power system of NICA complex
LI, Ming (Institute of Plasma Physics, Hefei Institutes of Physical Scien); ZHENG, Jinxing (Institute of Plasma Physics, Chinese Academy of Sciences); SHENG, Jie (Shanghai Jiao Tong University); KHODZHIBAGIYAN, Hamlet (Joint Institute for Nuclear Research); NOVIKOV, Michael (Joint Institute for Nuclear Research); LIU, Xufeng (Institute of Plasma Physics, Hefei Institutes of Physical Science, Chinese Academy of Sciences); CHENG, Yuan (Institute of Plasma Physics, Hefei Institutes of Physical Science, Chinese Academy of Sciences); LIU, Haiyang (Institute of Plasma Physics, Hefei Institutes of Physical Science, Chinese Academy of Sciences)

TUE-PO1-513-17: Wind photovoltaic Synchronous Generating System integrating with a SMES for a Grid Forming Renewable Energy System
GUO, Wenyong (Institute of Electrical Engineering, Chinese Academy of Science); SANG, Wenju; CAI, Yang; TIAN, Chenyu; YU, Suhang; XIAO, Liye

On-line 7:00 - 8:00, On-site 13:15 - 15:15, On-line 21:00 - 22:00

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TUE-PO1-606 High Tc Wires and Cables III

Session Moderator: Yuta Onodera, NIFS

TUE-PO1-606-01: Axial and transverse loading model of CORC® cable considering initial contact from cabling process
WANG, keyang (University of Twente); V A, Anvar (University Of Twente); GAO, Yuanwen (Lanzhou University); VAN DER LAAN, Danko (Advanced Conductor Technologies); WEISS, Jeremy (Advanced Conductor Technologies and University of Colorado, Boulder); NIJHUIS, Arend (University of Twente)

TUE-PO1-606-02: [Invited] CORC® cables with superior tensile strain performance : FEM and experiments
V A, Anvar (University Of Twente); WANG, keyang (University of Twente); WEISS, Jeremy (Advanced Conductor Technologies and University of Colorado, Boulder); VAN DER LAAN, Danko (Advanced Conductor Technologies); HOSSAIN, M.S.A. (University of Queensland); NIJHUIS, Arend (University of Twente)

TUE-PO1-606-03: Current sharing in CORC® with uneven current distribution
PHIFER, Virginia; TEYBER, Reed (Lawrence Berkeley National Laboratory); TURQUETI, Marcos (Lawrence Berkeley National Laboratory); MARCHEVSKY, Maxim; COOLEY, Lance

TUE-PO1-606-04: Current- transport properties of HTS-FAIR conductor at variable temperatures in high magnetic field
ONODERA, Yuta (National Institute for Fusion Science); MITO, Toshiyuki (National Institute for Fusion Science (NIFS)); HIRANO, Naoki; TAKAHATA, Kazuya (National Institute for Fusion Science); YANAGI, Nagato (National Institute for Fusion Science); IWAMOTO, Akifumi (National Institute for Fusion Science); CHIKARAISHI, Hirotaka; HAMAGUCHI, Shinji (National Institute for Fusion Science); TAKADA, Suguru (National Institute for Fusion Science); BABA, Tomosumi (National Institute for Fusion Science); CHIKUMOTO, Noriko (Chubu University); KAWAGOE, Akifumi (Kagoshima University); KAWANAMI, Ryozo (Kawanami Ironworks Inc.)

TUE-PO1-606-05: Development and preliminary test of Aluminum stabilized Stack ReBCO Tape Cable
ZHANG, Bin (IHEP); WANG, Chengtao (Institute of High Energy Physics, University of Chinese Academy of Sciences); NING, Feipeng (Institute of High Energy Physics, Chinese Academy of Sciences); WANG, Juan (IHEP); ZHAO, LING (IHEP,CAS); WANG, Menglin (IHEP); QIAO, Qi (IHEP); XU, Qingjin (IHEP); PEI, Yatian (IHEP); ZHU, Zian (IHEP)

TUE-PO1-606-06: Evaluation of critical currents in Rutherford cables made of quasi-isotropic strands
HE, Ye (State Key Laboratory of Alternate Electrical Power System with Renewable Energy Sources, North China Electric Power University); WANG, Yinshun (State Key Laboratory of Alternate Electrical Power System with Renewable Energy Sources, North China Electric Power University)

TUE-PO1-606-07: Investigation of a novel transposed superconducting cable using REBCO coated conductors
WANG, Juan (Institute of HKey Laboratory of Particle Acceleration Physics & Technology, Institute of High Energy Physics, Chinese Academy of Sciences, Beijing 100049, Chinaigh Energy Physics, Chinese Academy of Sciences); KANG, Rui (Key Laboratory of Particle Acceleration Physics & Technology, Institute of High Energy Physics, Chinese Academy of Sciences); ZHANG, Zhen (Institute of High

Energy Physics, Chinese Academy of Sciences); WANG, Chengtao (Institute of High Energy Physics, University of Chinese Academy of Sciences); WANG, Yingzhe (IHEP); NING, Feipeng (Institute of High Energy Physics, Chinese Academy of Sciences); XU, Qingjin (IHEP); XING, tao (Baoding Tianwei Wire Manufacturing Co. LTD); LI, xiongzhuang (Baoding Tianwei Wire Manufacturing Co. LTD); YANG, chao (Key Laboratory of Particle Acceleration Physics & Technology, Institute of High Energy Physics, Chinese Academy of Sciences); CHEN, xin (Key Laboratory of Particle Acceleration Physics & Technology, Institute of High Energy Physics, Chinese Academy of Sciences); JIAO, jun (Baoding Tianwei Wire Manufacturing Co. LTD); LI, chunyan (Key Laboratory of Particle Acceleration Physics & Technology, Institute of High Energy Physics, Chinese Academy of Sciences); YAO, Huanli (Institute of High Energy Physics, Chinese Academy of Sciences)

TUE-PO1-606-08: Research on fatigue characteristics of optical fiber applied in HTS cable
YUE, Yi (Huazhong University of Science and Technology); TANG, Yuejin (Huazhong University of Science and Technology); ZHOU, Kao (Huazhong University of Science and Technology); REN, Li (Huazhong University of Science and Technology); XU, Ying (Huazhong University of Science and Technology)

TUE-PO1-606-09: Resistances between soldered YBCO tapes consisting of the stacked cable
YOSHIMO, Kodai (kagoshima-university); UENO, Yuma (kagoshima university); KAWAGOE, Akifumi (kagoshima university); OBANA, Tetsuhiro (National Institute for Fusion Science); TAKAYASU, Makoto (Plasma Science and Fusion Center)

TUE-PO1-606-10: Stability and current sharing in YBCO cables – impact of broken elements - FEM modeling
MAJOROS, Milan (The Ohio State University); SUMPTION, Mike (The Ohio State University); COLLINGS, Edward (The Ohio State University)

On-line 7:00 - 8:00, On-site 13:15 - 15:15, On-line 21:00 - 22:00

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TUE-PO1-609 Stability and Mechanical Properties

Session Moderator: Yuta Onodera, NIFS

TUE-PO1-609-01: Angular dependences of critical current for REBCO coated conductors under bending strains
KURIHARA, Yuuta (tokai university); OGURO, HIdetoshi (Tokai University); WATANABE, Sora (Tokai University)

TUE-PO1-609-02: Bending and Twisting Properties of Quasi-isotropic Superconducting Strand at Liquid Helium Temperatures Based on Laminate Theory
PI, Wei (North China Electric Power University); SUN, Ziyuan (NCEPU); WANG, Ruiqi (North China Electric Power University); ZHANG, Zhaoyu (North China Electric Power University); YANG, Yu (North China Electric Power University); WANG, yinshun (North china electric power university)

TUE-PO1-609-03: Conductive micro-path for current sharing between REBCO tapes in high-Tc superconducting conductors to improve stability
YAMADA, Hiroyuki (Nagoya University); TSUCHIYA, Yuji (Nagoya University); YOSHIDA, Yutaka (Nagoya University); MITO, Toshiyuki (National Institute for Fusion Science (NIFS)); ONODERA, Yuta (National Institute for Fusion Science (NIFS)); HIRANO, Naoki (National Institute for Fusion Science (NIFS))

TUE-PO1-609-04: Evaluation for Critical Current of REBCO coated conductor under various tensile strains and magnetic field angles.
ISHIZUKA, Kimito (Tokai University); OGURO, HIdetoshi (Tokai University)

TUE-PO1-609-05: Investigations of stability of the second generation HTS composites under of current loads at various regimes
VESELOVA, Svetlana (NRNU MEPhI); RUDNEV, Igor (National Research Nuclear University MEPhI); POKROVSKII, Sergei (National Research Nuclear University MEPhI); OSIPOV, Maxim (NRNU MEPhI); ABIN, Dmitry (National Research Nuclear University MEPhI (Moscow Engineering Physics Institute)); NOVIKOV, Michael (Joint Institute for Nuclear Research); KHODZHIBAGIYAN, Hamlet (Joint Institute for Nuclear Research)

TUE-PO1-609-06: Mechanical and electromechanical behavior of REBCO coated conductors under combined tensile-bending deformation
GAO, Peifeng (Lanzhou University); PAN, Yingzheng (Lanzhou University)

TUE-PO1-609-07: Modeling the elasto-plastic behavior of YBCO coated conductors during cool-down and mechanical loading using adaptive FEM
MILANCHIAN, Hamed (Tampere University); HALBACH, Alexandre (Tampere University); SALMI, Tiina-Mari (Tampere University); KOUHIA, Reijo (Tampere University)

TUE-PO1-609-08: Presentation withdrawn

TUE-PO1-609-09: Study on AC Over-Current Characteristics with the Physical Properties of the Outer Layer of REBCO Superconducting Wire Having Composite Structure Using RF Sputtering Deposition Method
DU, Ho Ik (Jeonbuk National University); BAN, Sang Jae (Jeonbuk National University); YANG, Sung Chae (Jeonbuk National University); JEONG, Hyun Gi (Jeonbuk National University)

TUE-PO1-609-10: Thermal and electrical behavior of a multi-layer stack of coated conductors concerning the interlayer resistance
ZHOU, Hao (Department of Electrical Engineering, Shanghai Jiao Tong University); JIN, Zhijian (Department of Electrical Engineering, Shanghai Jiao Tong University); LI, Xiaofen (Department of Electrical Engineering, Shanghai Jiao Tong University)

TUE-PO1-609-11: The Study on Quench properties of 2G HTS coils using the tapes by Holing and Hole filling process
HA, Dong-Woo (Korea Electrotechnology Research Institute); KO, Rock Kil (Korea Electrotechnology Research Institute); NOH, Hyun-Woo (Korea Electric Research Institute); KOO, Tae-Hyung

On-line 7:00 - 8:00, On-site 13:15 - 15:15, On-line 21:00 - 22:00

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TUE-PO1-615 Structural Materials for Magnets

Session Moderator: Kazuya Takahata, NIFS

TUE-PO1-615-01: Effect of rare earth substitution on the structural, electrical and magnetic properties on the piezoelectric A1-xSrxTiO3 system
ABATAL, Mohamed (Universidad Autonoma del Carmen); QUIROZ, Adolfo (Universidad Tecnologica de Xicotepec de Juarez); GARCÍA-VÁZQUEZ, Valentin (Benemerita Universidad Autonoma de Puebla); CHAVIRA, Elizabeth (Universidad Nacional Autonoma de Mexico); GUARNEROS AGUILAR, C (Instituto Politécnico Nacional, Materiales y Tecnologíá ıas para Enerǵ ıa Salud y Medio Ambiente); AGUSTÍN-SERRANO, R (Facultad de Ciencias Fisico Matematicas, Benemerita Universidad Autonoma de Puebla)

TUE-PO1-615-02: Evaluation of mass production results of cryogenic structural stainless steels for ITER toroidal field coil
IGUCHI, Masahide (QST); SAKURAI, Takeru (QST); HISASHIGE, Tetsuo (QST); NAKAHIRA, Masataka (QST)

TUE-PO1-615-03: Research on Nondestructive Examination of Jacket Sections for CFETR TF Coil
LIU, XIAOCHUAN; QIN, JINGGANG

TUE-PO1-615-04: Silver nanowires - copper composite wires for non-destructive pulsed fields : importance of avoiding the formation of a silver/copper alloy relative to the electrical resistivity and the tensile strength
TARDIEU, Simon (Laboratoire National des Champs Magnetiques Intenses, EMFL, CNRS-INSA-UGA-UPS); MESGUICH, David (Universite de Toulouse, CIRIMAT, CNRS-INPT-UPS); LONJON, Antoine (Universite de Toulouse, CIRIMAT, CNRS-INPT-UPS); LECOUTURIER-DUPOUY, Florence (Laboratoire National des Champs Magnetiques Intenses, EMFL, CNRS-INSA-UGA-UPS); FERREIRA, Nelson (Laboratoire National des Champs Magnetiques Intenses, EMFL, CNRS-INSA-UGA-UPS); CHEVALLIER, Geoffroy (Universite de Toulouse, CIRIMAT, CNRS-INPT-UPS); PROIETTI, Arnaud (Universite de Toulouse, Centre de Microcaracterisation Raimond Castaing, UMS 3623); ESTOURNÈS, Claude (Universite de Toulouse, CIRIMAT, CNRS-INPT-UPS); LAURENT, Christophe (Universite de Toulouse, CIRIMAT, CNRS-INPT-UPS)

TUE-PO1-615-05: Thermal resistance between metallic surfaces of copper and stainless steel at different temperatures and contact pressures for high current HTS Cable-in-Conduit Conductors
BAGRETS, Nadezda (Karlsruhe Institute of Technology); HELLER, Reinhard (Karlsruhe Institute of Technology); WEISS, Klaus-Peter (KIT, Institute for Technical Physics)

On-line 7:00 - 8:00, On-site 13:15 - 15:15, On-line 21:00 - 22:00

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TUE-PO1-705 Quench Detection I

Session Moderator: Masayoshi Ohya, Kwansei Gakuin University

TUE-PO1-705-01: An electro-thermal coupling model of quench protection using nonlinear quench-back for superconducting magnets
TONG, Yujin (Institute of Modern Physics, Chinese Academy of Sciences); CHEN, Yuquan; ZHENG, Shijun (Institute of Modern Physics, Chinese Academy of Sciences); MEI, Enming (IMPCAS); OU, Xianjin; WU, Wei (Institute of Modern Physics, Chinese Academy of Sciences)

TUE-PO1-705-02: A Pulse Forming Network Power Supply for Quench Protection Heaters
GREEN, Bert (National High Magnetic FIeld Lab); BIRD, Mark (FSU); DIXON, Iain (Florida State University); ADKINS, Todd (National High Magnetic Field Laboratory); MARSHALL, William (National High Magnetic Field Laboratory); GAVRILIN, Andrew V. (Florida State University, Florida, USA); STIERS, Eric (NHMFL)

TUE-PO1-705-03: Choice of 2G HTS tape for magnet design according to quench protection requirements.
SOTNIKOV, Dmitry (Tampere University); LYLY, Mika; SALMI, Tiina

TUE-PO1-705-04: Detecting quench in HTS conductors with LTS conductors — a theoretical and numerical analysis
KANG, Rui (Institute of High Energy Physics, CAS); XU, Qingjin (IHEP)

TUE-PO1-705-05: Experimental study on quench protection method for HTS coil that uses Cu tape co-wound with HTS tape
SHIMADA, Ryohei (Sophia University); SONODA, Shogo (Sophia University); NAKAMURA, Kazuya (Sophia University); TAKAO, Tomoaki (Sophia University); TSUKAMOTO, Osami (Yokohama National University); FURUSE, Mitsuho (National Institute of Advanced Industrial Science and Technology Lab)

TUE-PO1-705-06: Quenching HTS Pancake Coils using Frequency Loss Induced Quench Protection System.
IJAGBEMI, Kikelomo (National High Magnetic Field Laboratory, Center for Advanced Power Systems); PAMIDI, Sastry (Center for Advanced Power Systems, FAMU-FSU College of Engineering); KIM, Chul (Center for Advanced Power System); CHEETHAM, Peter (Center for Advanced Power Systems)

TUE-PO1-705-07: Quench protection of a large aperture 15 T Cable Test Facility Nb3Sn Magnet
MARINOZZI, Vittorio (FNAL); KOSHELEV, Sergey (Fermi National Accelerator Laboratory); VELEV, Gueorgui (FNAL); ARBELAEZ, Diego; KASHIKHIN, VLADIMIR (Fermilab); NIKOLIC, Vladica (Fermi National Accelerator Laboratory); ORRIS, Darryl (Fermi National Accelerator Laboratory); PRESTEMON, Soren; SABBI, GianLuca (LBNL); GALT, Artur (Fermi National Accelerator Laboratory

(FNAL))

TUE-PO1-705-08: Simulation and Experiments on an AC-Injection Active Protection Scheme for a Conduction Cooled, React-and-Wind, MgB2 MRI Coil Segment
ZHANG, Danlu (The Ohio State University); SUMPTION, Mike (The Ohio State University); COLLINGS, Edward (The Ohio State University); MAJOROS, Milan (The Ohio State University); RINDFLEISCH, Matt (Hyper Tech Research); TOMSIC, Michael (Hyper Tech Research Inc.)

TUE-PO1-705-09: Superconducting Magnet Energy Extraction with Varistors to Reduce Quench Voltages and Hot-Spots
GALVIN, Tom (M&I Materials Ltd); KIRBY, Glyn (CERN); COLL, Dominic (M&I Materials Ltd); MANGIAROTTI, Franco Julio (CERN); WU, Wei (Institute of Modern Physics, Chinese Academy of Sciences); OU, Xianjin; XU, Qingjin (IHEP); ZHENG, shijun (Institute of Modern Physics, Chinese Academy of Sciences)

TUE-PO1-705-10: Test Results of Alternative Magnet Technologies for HTS Magnet Quench Detection and Protection
DAVIS, Daniel (FSU/NHMFL); KIM, Youngjae (National High Magnetic Field Laboratory); BOSQUE, Ernesto (National High Magnetic Field Laboratory); KVITKOVIC, Jozef (Florida State University); TROCIEWITZ, Ulf (NHMFL); LARBALESTIER, David (National High Magnetic Field Laboratory)

TUE-PO1-705-11: The influence of metal plates on quench protection of high temperature superconducting pancake coils
LU, Zhen (Shanghai Jiao Tong University); XUE, Wenbo (Shanghai Jiao Tong University); HUANG, Binyu (Shanghai Jiao Tong University); FU, Yutong (1.Shanghai Jiao Tong University 2.Chongqing University); HONG, Zhiyong (Shanghai Jiao Tong University); JIN, Zhijian (Shanghai Jiao Tong University); WANG, Yawei (Shanghai Jiao Tong University)

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TUE-PO1-708 Quench Analysis II

Session Moderator: Masayoshi Ohya, Kwansei Gakuin University

TUE-PO1-708-01: Analysis of quench dynamics testing of the HTS VIPER cable at SULTAN
SALAZAR, Erica (Massachusetts Institute of Technology); MICHAEL, Philip (Massachusetts Institute of Technology); HARTWIG, Zach (MIT); UPPALAPATI, Kiran (Commonwealth Fusion Systems)

TUE-PO1-708-02: Analysis of the Quench Experiments on HTS conductors
DICUONZO, Ortensia (EPFL-SPC); KANG, Rui (Accelerator Division, Institute of High Energy Physics (IHEP)); BRUZZONE, Pierluigi (EPFL-SPC, 5232 Villigen PSI, Switzerland); BYKOVSKIY, Nikolay (EPFL-SPC); KUMAR, Mithlesh (PSI Paul Scherrer Institut); UGLIETTI, Davide; WESCHE, Rainer (EPFL); SEDLAK, Kamil (EPFL Lausanne); CORATO, Valentina (ENEA)

TUE-PO1-708-03: A Novel Quench Detection Method for SMES
GUO, Wenyong (Institute of Electrical Engineering, Chinese Academy of Science); SANG, Wenju; CAI, Yang; TIAN, Chenyu; YU, Suhang; XIAO, Liye

TUE-PO1-708-04: Development of quench analysis model for single copper–plated multifilament coated conductor
TORII, Yuto (Kyoto University); SOGABE, Yusuke (Kyoto University); AMEMIYA, Naoyuki (Kyoto University)

TUE-PO1-708-05: Increased Quench Energy Threshold in Nb3Sn Strands with High Heat Capacity
ROCHESTER, JACOB (The Ohio State University); XU, Xingchen (Fermi National Accelerator Lab); WAN, Fang (The Ohio State University); PENG, Xuan (Hyper Tech Research Inc.); MAJOROS, Milan (The Ohio State University); SUMPTION, Mike (The Ohio State University)

TUE-PO1-708-06: Numerical investigation of thermoelastic coupling behaviors of stacks of high temperature superconductor during a quench
TONG, Yujin (Institute of Modern Physics, Chinese Academy of Sciences); GUAN, Mingzhi (The Institute of Modern Physics,Chinese Academy of Sciences); WU, Wei (Institute of Modern Physics, Chinese Academy of Sciences); WANG, Xingzhe (Lanzhou University)

TUE-PO1-708-07: Quench analysis and experiment of FECR prototype Nb3Sn superconducting magnet
ZHENG, shijun (Institute of Modern Physics, Chinese Academy of Sciences); CHEN, Yuquan; WU, Wei (Institute of Modern Physics, Chinese Academy of Sciences); OU, Xianjin; MEI, Enming (IMPCAS); YANG, Tongjun (Institute of Modern Physics, Chinese Academy of Sciences); BEIMIN, Wu (Institute of Modern Physics, Chinese Academy of Sciences); YUAN, Ping

TUE-PO1-708-08: Quench Analysis of the 9.4-T Whole-Body MRI Superconducting Magnet
CHEN, Shunzhong (Institute of Electrical Engineering, Chinese Academy of Sciences and The University of Chinese Academy of Sciences); SUN, Wanshuo (Institute of Electrical Engineering, Chinese Academy of Sciences and The University of Chinese Academy of Sciences); DAI, Yinming (Institute of Electrical Engineering, Chinese Academy of Sciences); CHENG, Junsheng (Institute of Electrical Engineering, Chinese Academy of Sciences and The University of Chinese Academy of Sciences); WANG, Hui (Institute of Electrical Engineering, Chinese Academy of Sciences); ZHANG, Zili (Institute of Electrical Engineering, Chinese Academy of Sciences); WANG, Yaohui (Institute of Electrical Engineering, Chinese Academy of Sciences); WANG, Qiuliang (Institute of Electrical Engineering, Chinese Academy of Sciences and The University of Chinese Academy of Sciences)

TUE-PO1-708-09: Quench simulations and experiments on the conductors wound on round cores (CORC) cables for 16+ T high field accelerator magnets
SONG, Honghai (Stony Brook University); VILLAVICENCIO , Kevin (Stony Brook University)

On-line 7:00 - 8:00, On-site 13:15 - 15:15, On-line 21:00 - 22:00

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TUE-PO1-711 Losses in conductors and coils

Session Moderator: Xudong Wang, KEK

TUE-PO1-711-01: AC Loss Calculation on Stacked HTS YBCO Tapes Based on Magnetic Field Characteristic Parameters Analysis
XINYI, Liu (Hunan University); ZHAI, Yujia (Hunan University)

TUE-PO1-711-02: AC loss measurement and simulation in a REBCO coil assembly utilizing two types of low-loss magnetic flux diverters
YOU, Shuangrong (Victoria University of Wellington); SIDOROV, Gennady (Robinson Research Institute, Victoria University of Wellington, Wellington 6140, New Zealand); MIYAGI, Daisuke (Department of Electrical and Electronic Engineering, Chiba University, Chiba 263-8522, Japan); LONG, Nicholas. (Robinson Research Institute, Victoria University of Wellington, PO Box 33436, Lower Hutt 5046, New Zealand); JIANG, Zhenan (Victoria University of Wellington); BADCOCK, Rod (Victoria University of Wellington)

TUE-PO1-711-03: AC loss measurement of MgB2 superconducting coils under rotating magnetic field
TERAO, Yutaka (The University of Tokyo); IWATA, Yosuke (The University of Tokyo); TAKAGI, Yusaku (The University of Tokyo); FUCHINO, Shuichiro (The University of Tokyo); OHSAKI, Hiroyuki (The University of Tokyo)

TUE-PO1-711-04: AC loss simulation of NI REBCO pancake coils in external low-frequency magnetic field
DAIHO, Kazuhiro (Hokkaido University); NOGUCHI, So (Hokkaido University); ISHIYAMA, Atsushi (Waseda University)

TUE-PO1-711-05: Demagnetization rate of no-insulation HTS coil for persistent-current operation in alternating fields
ZHONG, zhuoyan (Shanghai Jiaotong University); WU, Wei (Shanghai Jiao Tong University); HONG, Zhiyong (Shanghai Jiao Tong University); JIN, Zhijian (Shanghai Jiao Tong University)

TUE-PO1-711-06: Low field MgB2 and NbTi fast ramped coils: temperature behaviours empirical comparison.
CAPELLUTO, Alessio (ASG Superconductors); NERI , Martina (ASG Superconductors); MAURO, Lorenzo (ASG Superconductors)

TUE-PO1-711-07: Magnetization Loss of no-insulation high temperature superconductor coil exposed to background fields
XUE, Wenbo (Shanghai Jiao Tong University); LU, Zhen (Shanghai Jiao Tong University); FU, Yutong (1.Shanghai Jiao Tong University 2.Chongqing University); HONG, Zhiyong (Shanghai Jiao Tong

University); JIN, Zhijian (Shanghai Jiao Tong University); WANG, Yawei (Shanghai Jiao Tong University)

TUE-PO1-711-08: Measurement of AC loss characteristics of HTS sample coils under the conditions assumed for use in power electronics devices
FUNAKOSHI, Waku (Kagoshima University); KAWABATA, Shuma (Kagoshima University); HIRAYAMA, Tadashi (Kagoshima University)

TUE-PO1-711-09: The critical properties and AC loss characteristics of the developed ultra-fine and flexible Nb3Al superconducting wires
FUKUDA, Hibiki (Okayama University); KIMURA, Ryo (Okayama University); INOUE, Ryota (Tohoku University); UEDA, Hiroshi (Okayama University); KIM, SEOKBEOM (Okayama University); KIKUCHI, Akihiro (National Institute for Materials Science); IIJIMA, Yasuo (NIMS)

On-line 7:00 - 8:00, On-site 13:15 - 15:15, On-line 21:00 - 22:00

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TUE-PO1-714 Magnetization and Field Quality Ⅱ

Session Moderator: Xudong Wang, KEK

TUE-PO1-714-01: A System for Magnetic Measurement of the Triplet Quadrupoies for DTL
YANG, Jing; ZHANG, Xiang (IMP.CAS); YANG, Wenjie; YAO, Qinggao; GE, Hui; CHAI, Yiliang

TUE-PO1-714-02: Energization waveform for reducing Screening Current-induced Magnetic Field in No-Insulation REBCO Coil Systems
MURAKAMI, Shogo (Waseda University); ISHIYAMA, Atsushi (Waseda University); UEDA, Hiroshi (Okayama University); NOGUCHI, So (Hokkaido University)

TUE-PO1-714-03: Field quality of the 4.5 m long MQXFA pre-series magnets for the Hi-Lumi LHC Upgrade as observed during magnet assembly
WANG, Xiaorong (Lawrence Berkeley National Laboratory); AMBROSIO, Giorgio (Fermilab); CHENG, Daniel; DIMARCO, Joseph (Fermilab); FERRACIN, Paolo; GHIORSO, William (Lawrence Berkeley National Lab); IZQUIERDO BERMUDEZ, Susana (CERN); PAN, Heng (LBNL); PRESTEMON, Soren; RAY, Katherine (Lawrence Berkeley National Laboratory); SABBI, GianLuca (LBNL)

TUE-PO1-714-04: Flux Creep in Bi:2212 Rutherford Cables for Particle Accelerator Applications
ROCHESTER, JACOB (The Ohio State University); MYERS, Cory (Lawrence Berkeley National Lab); SHEN, Tengming (Lawrence Berkeley National Lab); MAJOROS, Milan (The Ohio State University); SUMPTION, Mike (The Ohio State University)

TUE-PO1-714-05: Magnetic Measurements of HL-LHC AUP Cryo-Assemblies at Fermilab
DIMARCO, Joseph (Fermilab); AKELLA, Padma (Fermilab); AMBROSIO, Giorgio (Fermilab); BALDINI, Maria; CHLACHIDZE, Guram (Fermilab); FEHER, Sandor (FNAL); NOGIEC, Jerzy (Fermilab); NIKOLIC, Vladica (Fermi National Accelerator Laboratory); STOYNEV, Stoyan (Fermilab); STRAUSS, Thomas

(FNAL); TARTAGLIA, Michael (Fermi National Accelerator Laboratory); THOMPSON, Peter (Fermilab); WALBRIDGE, Dana (Fermilab); GHIORSO, William (Lawrence Berkeley National Lab); WANG, Xiaorong (Lawrence Berkeley National Laboratory)

TUE-PO1-714-06: Presentation withdrawn

TUE-PO1-714-07: Numerical evaluation of screening current-induced magnetic field in HTS coil system of Skelton Cyclotron for targeted alpha-particle therapy
SHIRAI, Kodai (Waseda University); ISHIYAMA, Atsushi; UEDA, Hiroshi; NOGUCHI, So; WATANABE, Tomonori; NAGAYA, Shigeo; FUKUDA, Mitsuhiro

TUE-PO1-714-08: The Effects of Conductor Magnetization on the Magnetic Field in an Accelerator Magnet System with Various Conductors
GREEN, Michael (Lawrence Berkeley Laboratory)

TUE-PO1-714-09: The Magnetic Center Alignment Based on FECR Superconducting Ion-source After Cryostat Installation
YANG, yan bing (Institute of Modern Physics. Chinese Academy of Sciences); GUO, jun wei (Institute of Modern Physics. Chinese Academy of Sciences); LU, wang (Institute of Modern Physics. Chinese Academy of Sciences); SUN, liang ting (Institute of Modern Physics. Chinese Academy of Sciences); WU, wei (Institute of Modern Physics. Chinese Academy of Sciences); YANG, wen jie (Institute of Modern Physics. Chinese Academy of Sciences); WANG, xu dong (Institute of Modern Physics. Chinese Academy of Sciences)

On-line 7:00 - 8:00, On-site 13:15 - 15:15, On-line 21:00 - 22:00

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TUE-PO1-715 Mechanical Behavior of Coil I

Session Moderator: Ken-ichi Sasaki, KEK

TUE-PO1-715-01: Deformation Analysis of no-insulation REBCO coils considering turn-to-turn contact configuration
UEDA, Hiroshi (Okayama University); NAITO, Keisuke (Okayama University); INOUE, Ryota (Okayama University); KIM, SEOKBEOM (Okayama University)

TUE-PO1-715-02: Effects of Friction Force on the Stress-Strain Characteristics of a High-Temperature Superconducting Coil Co-Wound Using Intentionally Scratched Stainless Steel and GdBCO Tape
RYU, Yunyeol (Korea University); NOH, Hyun Sung (Korea University); MUSSA, Mtangi Mohamed (Korea University); KWON, Dawool (Korea University); KIM, Young Hoon (Korea University); LEE, Jung Tae (Seoul National University); HAHN , Seungyong (Seoul National University); LEE, Haigun (Korea University)

TUE-PO1-715-03: Numerical Evaluation of Reinforcement Structure against Electromagnetic and Thermal Stresses in Stacked REBCO Pancake Coils
NAITO, Keisuke (Okayama University); TOKUNAGA, Keisuke (Okayama University); INOUE, Ryota (Okayama University); KIM, SeokBeom (Okayama University); UEDA, Hiroshi (Okayama University)

TUE-PO1-715-04: Numerical evaluation of the potential methods of reducing screening-current-induced stress in NI-REBCO coil
JIANG, Zhaofei

TUE-PO1-715-05: Numerical modelling and calculation of mechanical properties of HTS magnet wound with multi-thickness armored REBCO tapes
PENGYANG, Xie (Southwest Jiaotong University); GONG, Tianyong (Southwest Jiaotong University); WANG, Ruichen (Applied Superconductivity Laboratory, State Key Laboratory of Traction Power, Southwest Jiaotong University); LI, Songlin (Southwest Jiaotong University); MA, Guangtong (Southwest Jiaotong University)

TUE-PO1-715-06: Numerical Modelling of the Interfacial Debonding in Superconducting Magnets
VALLONE, Giorgio (Lawrence Berkeley National Lab. (US)); ANDERSSEN, Eric (Lawrence Berkeley National Lab (US)); ARBELAEZ, Diego; BROUWER, Lucas (Lawrence Berkeley National Laboratory); FERRACIN, Paolo; PRESTEMON, Soren

TUE-PO1-715-07: Strain measurements of a combined superconducting magnet on sextupole coils and solenoids during its assembly and excitation
XIN, Canjie; GUAN, Mingzhi; WU, Beimin; WU, Wei

TUE-PO1-715-08: The influence of friction between layers of coil on the magneto-mechanical behaviors of YBCO superconducting magnet
HU, Qiang (Institute of Modern Physics of Chinese Academy of Science); GUAN, Mingzhi (The Institute of Modern Physics,Chinese Academy of Sciences); WU, Wei (Institute of Modern Physics, Chinese Academy of Sciences)

TUE-PO1-715-09: The pre-compression study for CFETR central solenoid model coil
WANG, Xianwei; HAN, Peng (Sany Heavy Industry Co., Ltd); WANG, Zhaoliang (Institute of Plasma Physics, Chinese Academy of Sciences)

TUE-PO1-715-10: Presentation withdrawn

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TUE-PO1-720 Design & Diagnostics

Session Moderator: Ken-ichi Sasaki, KEK

TUE-PO1-720-01: Advanced electrical quality assurance methods for the series production of the superconducting coils of the HL-LHC high order corrector magnets
PRIOLI, Marco (INFN Milano (IT)); CAMPANIELLO, Marco (SAES Getters); DE MATTEIS, Ernesto (INFN); LEONE, Augusto (INFN Sezione di Milano (INFN)); MANINI, Paolo (SAES Getters); MARIOTTO, Samuele (University of Milan INFN Milan); PACCALINI, Antonio (INFN Sezione di Milano (INFN)); PALMISANO, Arsenio (INFN); PASINI, Alessandro (INFN Milano -LASA); PEDRINI, Danilo Felice (Universita degli Studi e INFN Milano (IT)); SANTINI, Carlo (SAES RIAL Vacuum); SORBI, Massimo Leone (Universita degli Studi e INFN Milano (IT)); STATERA, Marco (INFN Milano LASA); TODERO, Maurizio (Universita degli Studi e INFN Milano (IT)); VALENTE, Riccardo Umberto (LASA-INFN (Milano, Italy))

TUE-PO1-720-02: Combined method of mapping fields in pulsed bending magnets
SHTRO, Konstantin (Budker Institute of Nuclear Physics); OKUNEV, Ivan (BINP SB RAS); BATRAKOV, Alexander (Unknown); ILYIN, Igor (BINP SB RAS); PAVLENKO, Anton (BINP SB RAS)

TUE-PO1-720-03: Designing a Magnetic Measurement Data Acquisition and Control System with Reuse in Mind: A Rotating Coil System Example
NOGIEC, Jerzy (Fermilab); AKELLA, Padma (Fermilab); CHLACHIDZE, Guram (Fermilab); DIMARCO, Joseph (Fermilab); TARTAGLIA, Michael (Fermi National Accelerator Laboratory); THOMPSON, Peter (Fermilab); TROMBLY-FREYTAG, Kelley (Fermilab)

TUE-PO1-720-04: Fine tuning of the inner dipole design of MCBXF magnets
GARCIA MATOS, Jesus Angel (Centro de Investigaciones Energeticas, Medioambientales y Tecnologicas (CIEMAT) & Universidad Politecnica de Madrid (UPM)); ALCAZAR, Cristóbal (Centro de Investigaciones Energeticas, Medioambientales y Tecnologicas (CIEMAT)); DOMÍNGUEZ MARTÍNEZ, Manuel Ángel (Centro de Investigaciones Energeticas, Medioambientales y Tecnologicas (CIEMAT)); DURAN LUCAS, Oscar (Centro de Investigaciones Energeticas, Medioambientales y Tecnologicas (CIEMAT)); GARCIA-TABARES, Luis (Centro de Investigaciones Energeticas, Medioambientales y Tecnologicas (CIEMAT)); GONZALEZ GOMEZ, Luis Antonio (Centro de Investigaciones Energeticas, Medioambientales y Tecnologicas (CIEMAT)); GOMEZ, Pablo (Centro de Investigaciones Energeticas, Medioambientales y Tecnologicas (CIEMAT)); JIMENEZ, Jesus (Centro de Investigaciones Energeticas, Medioambientales y Tecnologicas (CIEMAT)); MARTINEZ DE ALVARO, Teresa (Centro de Investigaciones Energeticas, Medioambientales y Tecnologicas (CIEMAT)); MARTINS JARDIM, Carla (Centro de Investigaciones Energeticas, Medioambientales y Tecnologicas (CIEMAT)); PARDO, Jose Antonio (Centro de Investigaciones Energeticas, Medioambientales y Tecnologicas (CIEMAT)); PEREZ-MORALES, Jose Manuel (Centro de Investigaciones Energeticas, Medioambientales y Tecnologicas (CIEMAT)); SOBRINO MOMPEAN, Pablo (Centro de Investigaciones Energeticas, Medioambientales y Tecnologicas (CIEMAT)); TORAL, Fernando (Centro de Investigaciones Energeticas, Medioambientales y Tecnologicas (CIEMAT)); PEREZ, Juan Carlos (CERN); TODESCO, Ezio (CERN)

TUE-PO1-720-05: Impact of Rotor Eccentricity and Current Harmonics on High-Speed Permanent Magnet Generator Performance for Microturbine Applications
HUYNH, Thanh Anh (National Cheng Kung University); HSIEH, Min-Fu (National Cheng Kung University)

TUE-PO1-720-06: Reactor Vibration Reduction Using Global Topology Optimization Algorithms
BEN, Tong (China Three Gorges University); ZHANG, Ping (China Three Gorges University); CHEN,

Long (China Three Gorges university)

TUE-PO1-720-07: Research on Fault Diagnosis of Submersible Motor on Offshore Platform
张 雅晖; 杨 凯; 李 天乐; 徐 百川; 杨 帆

TUE-PO1-720-08: Self-protecting behavior of Metal-as-Insulation windings made of High Temperature Superconductor tapes
FAZILLEAU, philippe (cea); CHAUD, xavier (CNRS-LNCMI); LECREVISSE, Thibault (CEA Paris Saclay); GENOT, Clement (CEA Paris Saclay)

On-line 7:00 - 8:00, On-site 13:15 - 15:15, On-line 21:00 - 22:00

2F Multipurpose Hall

TUE-PO1-722 Model Coil I

Session Moderator: Akifumi Kawagoe, Kagoshima University

TUE-PO1-722-01: Analysis and Experiments on Electrical and Thermal Characteristics of REBCO Racetrack Coil co-wound by Stainless Steel Tape under asynchronous rotating magnetic field
CHAE, Yoon Seok (Jeju National University); KIM, Ji Hyung (Jeju National University); QUACH, Huu Luong (Jeju National University); KIM, Hyung-Wook (Korea Electrotechnology Research Institute); JO, Young-Sik (Korea Electrotechnology Research Institute); KO, Tae Kuk (Yonsei University); YOON, Yong Soo (SHIN ANSAN UNIVERSITY); KIM, Ho Min (Jeju National University)

TUE-PO1-722-02: A study on the electrical contact resistance and thermal conductivity of soldered-metal insulation coil with conduction cooling
LEE, Jaehwan (Changwon National University); MUN, Jeongmin (Changwon National University); KIM, Junil (Korea Electrotechnology Research Institute); SIM, Kideok (Supergenics, co., Ltd.,); HAHN, Seungyong (Seoul National University); KIM, Seokho (Changwon National University)

TUE-PO1-722-03: Design optimization and fabrication of HTS magnet with stepped cross-section
LI, Songlin (Southwest Jiaotong University); GONG, Tianyong (Southwest Jiaotong University); MA, Guangtong (Southwest Jiaotong University)

TUE-PO1-722-04: Presentation withdrawn

TUE-PO1-722-05: Effects of thermal cycle and winding tension on contact resistivity of an intra-Layer No-Insulation (LNI) REBCO coil
TAKAHASHI, Keisuke (Sophia University (Graduate school)); SUETOMI, Yu (RIKEN); TAKAO, Tomoaki (Sophia University); YANAGISAWA, Yoshinori (RIKEN); MAEDA, Hideaki (JST)

TUE-PO1-722-06: Electromagnetic characteristics of two-tape co-winding REBCO coil including local defects

ABE, Toru (Tohoku university); BADEL, Arnaud (Tohoku University); OKADA, Tatsunori (Tohoku University); AWAJI, Satoshi (Tohoku University); FUJITA, Shinji (Fujikura Ltd.); TSUCHIYA, KOki (Fujikura Ltd.); IIJIMA, Yasuhiro (Fujikura Ltd.); DAIBO, Masanori

TUE-PO1-722-07: Experimental Study on the Accuracy of the Proposed LFAC Method for Measuring the Contact Resistance of NI HTS Coils

MIYAMOTO, Kohei (Okayama University); KOBAYASHI, Hirotaka; INOUE, Ryota (Okayama University); UEDA, Hiroshi (Okayama University); KIM, SEOKBEOM (Okayama University); NOGUCHI, So (Hokkaido University)

TUE-PO1-722-08: Fabrication of Racetrack Type Double-pancake Coils Using 2G Tapes

SUN, Wanshuo (Institute of Electrical Engineering, Chinese Academy of Sciences); WANG, Lei (Institute of Electrical Engineering, Chinese Academy of Sciences); CHEN, Shunzhong (Institute of Electrical Engineering, Chinese Academy of Sciences); CHENG, Junsheng (Institute of Electrical Engineering, Chinese Academy of Sciences); WANG, Qiuliang (Institute of Electrical Engineering, Chinese Academy of Sciences)

TUE-PO1-722-09: Investigation on Quench and Normal Zone Propagation Behaviors of REBCO Coil wound by vanadium III oxide turn-to-turn insulator

KIM, Ji Hyung (Jeju National University); CHAE, Yoon Seok (Jeju National University); QUACH, HuuLuong (Jeju national university); PARK, Sail (Jeju National University); BOO, Chang-Jin (Jeju International University); KIM, Hyung-Wook (Korea Electrotechnology Research Institute, Changwon, 51543, Korea); JO, Young-Sik (Korea Electrotechnology Research Institute); KIM, Seog-Whan (Korea Electrotechnology Research Institute); LEE, Sung Hoon (WinDetect Co., Ltd); YOON, YONG SOO (SHIN ANSAN UNIVERSITY); KIM, Ho Min (Jeju National University)

TUE-PO1-722-10: Investigation on thermal and electrical stabilities of REBCO coil insulated by vanadium III oxide under various disturbance environments

KIM, Ji Hyung (Jeju National University); CHAE, Yoon Seok (Jeju National University); QUACH, HuuLuong (Jeju national university); KIM, Hyung-Wook (Korea Electrotechnology Research Institute); JO, Young-Sik (Korea Electrotechnology Research Institute); KIM, Seog-Whan (Korea Electrotechnology Research Institute); YOON, YONG SOO (SHIN ANSAN UNIVERSITY); NOH, Hyun Sung (Department of Materials Science and Engineering, Korea University, Seoul,02841, Korea); LEE, Haigun (Korea University); KIM, Ho Min (Jeju National University)

TUE-PO1-722-11: [Invited] Modelling and characterization of a ReBCO HTS degaussing demonstrator

HANSE, Izak (University of Twente); WIKKERINK, Djurre (TU Delft); KEIJZER, Ruben (Universiteit Twente (NL)); DHALLÉ, Marc (University of Twente); TEN KATE, Herman; TER BRAKE, Marcel (University of Twente, The Netherlands)

TUE-PO1-722-12: Temperature Considered Active Feedback Control of No-Insulation HTS Magnet

PARK, Jeonghwan (Seoul National University); BANG, Jeseok (Seoul National University); KIM, Jaemin (Seoul National University); LEE, Jung Tae (Seoul National University); CHOI, Kibum (Seoul National University); HAHN, Seungyong (Seoul National University)

TUE-PO1-722-13: Thermal and electrical characteristics of NI HTS coil fabricated by diffusion bonding technique
KIM, Junil (Korea Electrotechnology Research Institute, Chanwon National Unviersity); HA, Hongsoo (Korea electrotechnology research institute); SOHN, Myung-Hwan (Korea Electrotechnology Research Institute); KIM, Sung-Kyu Kim (Korea electrotechnology research institute); KIM, Gwantae (Korea electrotechnology research institute); KIM, Seokho (Changwon National University)

On-line 7:00 - 8:00, On-site 13:15 - 15:15, On-line 21:00 - 22:00

2F Multipurpose Hall

TUE-PO1-804 Flux pumps

Session Moderator: Akifumi Kawagoe, Kagoshima University

TUE-PO1-804-01: Accurate Control the DC Output Current of the Linear-Motor Flux Pump Based on the Four Quadrant Method
YANG, Zhenxuan (Sichuan University); WANG, Wei (Sichuan University)

TUE-PO1-804-02: A Kilo-Amp Linear-Motor Type Flux Pump
YANG, Chao (Sichuan University); WANG, Wei (Sichuan University)

TUE-PO1-804-03: A miniaturized high temperature superconducting flux pump
CHEN, Dachuan (Shanghai Jiao Tong University); LI, Xiao-Fen (Shanghai Jiao Tong University); JIN, Zhijian (Shanghai Jiao Tong University); HONG, Zhiyong (Shanghai Jiao Tong University)

TUE-PO1-804-04: High performance switch design for HTS transformer rectifier type flux pump
MA, Jun (Hunan University); HU, Jintao (University of Cambridge); COOMBS, Tim (University of Cambridge)

TUE-PO1-804-05: High temperature superconducting magnet wireless power transmission technology based on flux pump
ZHAI, Yujia (Hunan University); XINYI, Liu (Hunan University); NIU, Chang (Hunan University); ZHANG, Jiawei (Hunan University); COOMBS, Tim

TUE-PO1-804-06: Improve the Central Magnetic Field of an HTS Magnet with Multi Linear-Motor Flux Pumps Based on Genetic Algorithm
WEI, Jiafu (Sichuan University); WANG, Wei (Sichuan University)

TUE-PO1-804-07: MATLAB Implementation of Optimized HTS Transformer-Rectifier Flux Pump Using HTS Dynamic Voltage Switches
PATEL, Ismail (Cambridge University)

TUE-PO1-804-08: Minimizing the heat losses of a self-switching kA-class rectifier flux pump
IFTIKHAR, Muhammad (University of Strathclyde United Kingdom); ZHANG, Min (University of

Strathclyde); YUAN, Weijia (University of Strathclyde)

TUE-PO1-804-09: Persistent Current Stabilization and Tuning of Bi-2223 HTS Coils
BROUWER, Lucas (Lawrence Berkeley National Laboratory); SHEN, Tengming (Lawrence Berkeley National Lab)

TUE-PO1-804-10: Stator Optimization for HTS Rotating Permanent Magnets Based Flux Pump
SHAH, Adil (University of Cambridge); MA, Jun (Cambridge Universitry); COOMBS, Tim

TUE-PO1-804-11: Study on the Through Duwar Wall Excitation of YBCO Coil Based on Linear-motor Type Flux Pump
XIONG, Chenling (Sichuan University); WANG, Wei (Sichuan University)

On-line 7:00 - 8:00, On-site 13:15 - 15:15, On-line 21:00 - 22:00

2F Multipurpose Hall

TUE-PO1-LN1 Late News I

Session Moderator: Satoshi Awaji , Tohoku University

TUE-PO1-LN1-01: A New Active Field Uniformity Improvement Method with Optimally Designed Compensation coils for Low-temperature Superconducting Magnets
JANG, Jaeyoung (Korea university of technology and education)

TUE-PO1-LN1-02: Coil error analysis of a curved CCT magnet applied to a superconducting gantry
LI, Chunyi (State Key Laboratory of Advanced Electromagnetic Engineering and Technology); WENJIE, han (Huazhong University of Science and Technology); QIN, Bin (Huazhong University of Science and Technology); LIU, Xu (Huazhong University of Science and Technology)

TUE-PO1-LN1-03: Construction of Cryogen-Free 4.3T Superconducting Wiggler for NSLS-II Ring
TANABE, Toshiya (Brookhaven National Laboratory); HIDAS, Dean Andrew; RANK, James (Brookhaven National Laboratory); HARDER, David (Brookhaven National Laboratory); MUSARDO, Marco (Brookhaven National Laboratory); SEEGITZ, Michael (BNL); TODD, Robert (BNL); BREITENBACH, Marcel (Bilfinger Noell GmbH); HOBL, Achim (Bilfinger Noell GmbH); WU, Hong (Bilfinger Noell GmbH)

TUE-PO1-LN1-04: Current-sharing between filaments and voltage-current characteristics of copper-plated multifilament coated conductors
AMEMIYA, Naoyuki (Kyoto University); ZHAO, Yifan (Kyoto University); LUO, Xijie (Kyoto University); XU, Guangwei (Kyoto University); SOGABE, Yusuke (Kyoto University)

TUE-PO1-LN1-05: Design and optimization of combined-function quadrupole-sextupole magnets

GENG, Chen (State Key Laboratory of Advanced Electromagnetic Engineering and Technology); WENJIE, Han (Huazhong University of Science and Technology); RUNXIAO, ZHao (State Key Laboratory of Advanced Electromagnetic Engineering and Technology); YICHENG, Liao (State Key Laboratory of Advanced Electromagnetic Engineering and Technology); BIN, Qin (State Key Laboratory of Advanced Electromagnetic Engineering and Technology)

TUE-PO1-LN1-06: Design and test of a rotating magnetic field measurement system based on PCB technique

HAN, Wenjie (Huazhong University of Science and Technology); CHEN, Geng (State Key Laboratory of Advanced Electromagnetic Engineering and Technology); QIN, Bin (Huazhong University of Science and Technology); LIU, Xu (Huazhong University of Science and Technology); CHEN, Qushan (Huazhong University of Science and Technology)

TUE-PO1-LN1-07: Innovative collaring concept for MQYY superconducting quadrupole magnets of HL-LHC Insertion Region

PORHIEL, Amaury (Sigmaphi); SIMON, Damien; ROCHEPAULT, Etienne (Universite Paris-Saclay (FR)); FOREST, Frederick (SIGMAPHI); PERRAUD, Simon (Universite Paris-Saclay (FR)); BELAINA, Léopold (Sigmaphi); DELBECQ, morgan (sigmaphi); FROIDEVAUX, Yannick (Sigmaphi); LE CRENN, Christophe (Sigmaphi); SIGALO, Vincent (Sigmaphi); VOISIN, Emmanuel (SigmaPhi)

TUE-PO1-LN1-08: Mechanical Characterization of Low-Carbon Steels for High-Field Accelerator Magnets: Application to Nb3Sn Low-β Quadrupole MQXF

AVILES SANTILLANA, Ignacio (CERN); VALLONE, Giorgio (Lawrence Berkeley National Lab. (US)); IZQUIERDO BERMUDEZ, Susana (CERN); BONNIN, Simon (CERN); CROUVIZIER, Mickael Denis (CERN); SGOBBA, Stefano (CERN); WEISS, Klaus-Peter (KIT, Institute for Technical Physics); BAGRETS, Nadezda (KIT); HUANG, Chuanjun (Technical Institute of Physics and Chemistry, Chinese Academy o); LAIFENG, Li (CAS)

TUE-PO1-LN1-09: Optimum field shaper design for electromagnetic forming by balancing trade-off among energy efficiency, field distribution, and thermo-mechanical loadings

LAI, Zhipeng (Huazhong University of Science and Technology); ZIXUAN, Zhang (Huazhong University of Science and Technology); YUHANG, Gao (Huazhong University of Science and Technology); MENG, Li (Huazhong University of Science and Technology); CHANGXING, Li (Huazhong University of Science and Technology); ZIYE, Wang (c University of Science and Technology); YU, Zheng (Huazhong University of Science and Technology); WEI, Xu (Huazhong University of Science and Technology); QUANLIANG, Cao (Huazhong University of Science and Technology); XIAOTAO, Han (Huazhong University of Science and Technology); LIANG, Li (Huazhong University of Science and Technology)

TUE-PO1-LN1-10: Record High Ramping Rates in HTS Based Superconducting Accelerator Magnet

PIEKARZ, Henryk (Fermilab); CLAYPOOL, Bradley (Fermilab); KUFER, Matthew (Fermilab); HAYS, Steven (Fermilab); SHILTSEV, Vladimir (Fermilab)

TUE-PO1-LN1-11: Trapped field properties of MgB2 bulks prepared via an in-situ infiltration-reaction process using refined boron powders

TAKAHASHI, Yuhei (Iwate University); NAITO, Tomoyuki (Iwate University); FUJISHIRO, Hiroyuki (Iwate University)

TUE-PO1-LN1-12: Conceptual Design of a C-shaped 6.4 T Superconducting Dipole Magnet
ABDALAD VIANNA, Alan (CNPEM); GUINANCIO DE CARVALHO PEREIRA, Andrei (CNPEM); LIMEIRA, Bruno Edson (CNPEM); OEHLMEYER BRUNHEIRA, Gabriel (CNPEM); DE O. CAIAFA DUARTE, Henrique (CNPEM); BALBINO CAVASSANI, Isadora (CNPEM); CITADINI, James Francisco (CNPEM); RAMOS SILVA, Joao Henrique (CNPEM); GANSAUSKAS GALVEZ, Juan (CNPEM); PIRES VILELA, Luana Nayara (CNPEM); PONCIO DE OLIVEIRA, Lucas (CNPEM); SOUSA MARTINS, Pedro Henrique (CNPEM); DEFAVARI, Rafael (CNPEM); MOLENA SERAPHIM, Rafael (CNPEM); TERENZI NEUENSCHWANDER, Regis (CNPEM); MENDES DA ROCHA, Thiago (CNPEM)

17:00 – 17:30 3F Main Hall

Opening Ceremony

WEDNESDAY, NOBEMBER 17, 2021

8:30 - 10:30 3F Main Hall

WED-OR2-703 Mechanical Behavior and Coil Tests

Session Moderators: Hidetoshi Oguro, Tokoai University and Hyung-Seop Shin, ANU

08:30 **WED-OR2-703-01: Real-time Field Mapping of Screening Current induced Fields in an HTS Pancake Coil using a Hall Sensor Array**
BANG, Jeseok (Seoul National University); KIM, Geonyoung (Seoul National University); CHOI, Kibum (Seoul National University); PARK, Jeonghwan (Seoul National University); KIM, Jaemin (Seoul National University); KIM, Kwanglok (National High Magnetic Field Laboratory); KIM, Kwangmin (National High Magnetic Field Laboratory); HAHN, Seungyong (Seoul National University); LARBALESTIER, David (National High Magnetic Field Laboratory)

08:45 **WED-OR2-703-02: NI test coil program at the Paul Scherrer Institute**
KOSSE, Jaap (PSI Paul Scherrer Institute); HUG, Christoph (PSI Paul Scherrer Institute); FELDER, Roland (PSI Paul Scherrer Institute); DUDA, Michal (PSI Paul Scherrer Institute); SANFILIPPO, Stephane (PSI Paul Scherrer Institute); AUCHMANN, Bernhard (PSI Paul Scherrer Institute)

09:00 **WED-OR2-703-03: Non-uniform screening-current-induced mechanical strains in small-scale REBCO insert coils**
YAN, Yufan (Tsinghua University); SONG, PENG (Tsinghua University); XIN, Canjie (The Institute of Modern Physics, Chinese Academy of Sciences); GUAN, Mingzhi (The Institute of Modern Physics, Chinese Academy of Sciences); LI, Yi (Texas Center for Superconductivity, University of Houston); LIU, Huajun (Institute of Plasma Physics, Chinese Academy of Sciences); QU, Timing (the State Key Laboratory of Tribology, Department of Mechanical Engineering, Tsinghua University)

09:15 **WED-OR2-703-04: Method of Manufacturing Fast Ramping Non-Insulated HTS Pancake Coils**
MULDER, Tim (CERN); VERBRUGGEN, Wouter (University of Twente) ; DUDAREV, Alexey (CERN); MENTINK, Matthias (CERN)

09:30 **WED-OR2-703-05: Bending strain sensitivity of critical current in REBCO CC windings with different pitches on a large diameter former under static fatigue condition at 77 K**
DE LEON, Michael (Andong National University); SHIN, Hyung-Seop (Andong National University); NISAY, Arman Ray (Andong National University); DIAZ, Mark Angelo (Andong National University)

09:45 **WED-OR2-703-06: Mechanical strength evaluation of Yoroi-coil structured non-circular REBCO pancake coil in high magnetic field**
WATANABE, Tomonori (Chubu Electric Power co., inc.); NGAYA, Shigeo (Chubu Electric Power co., inc.); ISHIYAMA, Atsushi (Waseda University); NOGUCHI, So (Hokkaido University); UEDA, Hiroshi (Okayama University); NISHIJIMA, Gen (National Institute for Materials Science)

10:00 **WED-OR2-703-07: Mechanical Analysis of a 14 T Whole-Body MRI Magnet**
LIU, XiaoGang (Institute of Plasma Physics); WU, Fan (Institute of Plasma Physics); WU, Kaihong (Institute of Plasma Physics); DAI, Chao (Institute of Plasma Physics); SHI, Yi (Institute of Plasma Physics); GAO, Xiang (Institute of Plasma Physics); WU, Yu (Institute of Plasma Physics)

10:15 **WED-OR2-703-08: Design and test results for a canted-cosine-theta dipole subscale magnet series**
ARBELAEZ, Diego (Lawrence Berkeley National Laboratory); BOGDANOF, Timothy (Lawrence Berkeley National Laboratory); BROUWER, Lucas (Lawrence Berkeley National Laboratory); CASPI, Shlomo; FERRACIN, Paolo; HAFALIA, Aurelio (Unknown); KRUTULIS, Mark (Lawrence Berkeley National Laboratory); LEFEVERS, Kevin (Lawrence Berkeley National Laboratory); MARCHEVSKY, Maxim; MCCOMBS, Kyle (Lawrence Berkeley National Laboratory); MEMMO, Robert (Lawrence Berkeley National Laboratory); MYERS, Cory (Lawrence Berkeley National Lab); PRESTEMON, Soren; REYNOLDS, Matthew (Lawrence Berkeley National Laboratory); RUDEIROS FERNANDEZ, Jose Luis; SHEN, Tengming (Lawrence Berkeley National Lab); SWANSON, James (Lawrence Berkeley National Laboratory); TAYLOR, Jordan (Lawrence Berkeley National Laboratory); TEYBER, Reed (Lawrence Berkeley National Laboratory); TURQUETI, Marcos (Lawrence Berkeley National Laboratory); VALLONE, Giorgio (Lawrence Berkeley National Lab. (US))

8:30 - 10:15 4F 409+410

WED-OR2-103 HL-LHC Accelerator Magnets I

Session Moderators: Ken-ichi Sasaki, KEK and Emanuela Barzi, Fermilab

08:30 **WED-OR2-103-01: [Invited] Analysis of the production of MQXFA Low Beta Quadrupoles for HL-LHC at 50% coil fabrication**
AMBROSIO, Giorgio (Fermilab); AMM, Kathleen; ANERELLA, Michael (Brookhaven National Laboratory); APOLLINARI, Giorgio (Fermi National Accelerator Lab. (US)); BALDINI, Maria; CARCAGNO, Ruben Horacio; FERRACIN, Paolo; PRESTEMON, Soren; COOLEY, Lance; LOMBARDO, Vito (Fermi National Accelerator Laboratory); PONG, Ian (LBNL); YU, Miao (Fermilab); NOBREGA, Fred (Fermilab); SCHMALZLE, Jesse; SABBI, GianLuca (LBNL); MARINOZZI, Vittorio (FNAL)

08:45 **WED-OR2-103-02: [Invited] AUP first pre-series Cryo-Assembly Design Production and Test Overview**

FEHER, Sandor (FNAL); AMBROSIO, Giorgio (Fermilab); APOLLINARI, Giorgio (Fermi National Accelerator Lab. (US)); BALDINI, Maria (Fermilab); BOSSERT, Rodger (Fermi National Accelerator Laboratory); CARCAGNO, Ruben Horacio (Fermilab); CHLACHIDZE, Guram (Fermilab); DIMARCO, Joseph (Fermilab); RABEHL, Roger Jon (Fermi National Accelerator Lab. (US)); STOYNEV, Stoyan (Fermilab); STRAUSS, Thomas (FNAL); VOURIS, Antonios (Fermilab); PRIN, Herve (CERN); DUARTE RAMOS, Delio (CERN); TODESCO, Ezio (CERN)

09:00 **WED-OR2-103-03: Power Test of the First Two MQXFB Quadrupole Magnets Built at CERN for the HL-LHC Low-Beta Insertion**
MANGIAROTTI, Franco Julio (CERN); WILLERING, Gerard (CERN); BAJKO, Marta (CERN); BOTTURA, Luca (CERN); DESBIOLLES, Vincent Jeremy (CERN); DEVRED, Arnaud (CERN); FERRADAS TROITINO, Jose (CERN); FISCARELLI, Lucio (CERN); IZQUIERDO BERMUDEZ, Susana (CERN); KEIJZER, Ruben (Universiteit Twente (NL)); LACKNER, Friedrich (CERN); MILANESE, Attilio (CERN); NINET, Gaelle (CERN); PRIN, Herve (CERN); RAVAIOLI, Emmanuele (CERN); RUSSENSCHUCK, Stephan (CERN); TAKALA, Eelis Tapani (CERN); TODESCO, Ezio (CERN)

09:15 **WED-OR2-103-04: Performance of a MQXF Nb3Sn Quadrupole Under Different Stress Level**
IZQUIERDO BERMUDEZ, Susana (CERN); FERRACIN, Paolo; AMBROSIO, Giorgio (Fermilab); TODESCO, Ezio (CERN); FISCARELLI, Lucio (CERN); TAKALA, Eelis Tapani (CERN); PEREZ, Juan Carlos (CERN); GUINCHARD, Michael (CERN); BORDINI, Bernardo (CERN); FLEITER, Jerome (CERN); MANGIAROTTI, Franco Julio (CERN); FERRADAS TROITINO, Salvador (CERN)

09:30 **WED-OR2-103-05: The HL-LHC Superferric High Order Corrector Magnets: Series Production and Powering Tests Status**
STATERA, Marco (INFN Milano LASA); BROGGI, Francesco (INFN LASA Lab.); IMERI, Luca (INFN Milano LASA); LEONE, Augusto (INFN Milano LASA); MARIOTTO, Samuele (University of Milan and INFN Milano LASA); PACCALINI, Antonio (INFN Milano LASA); PASINI, Alessandro (INFN Milano LASA); PEDRINI, Danilo Felice (INFN Milano LASA); PRIOLI, Marco (INFN Milano LASA); SORBI, Massimo Leone (Milan University and INFN Milano LASA); TODERO, Maurizio (INFN Milano LASA); UVA, Carlo (INFN Milano LASA); VALENTE, Riccardo Umberto (La Sapienza University of Rome and LASA-INFN (Milano, Italy)); MUSSO, Andrea (CERN); TODESCO, Ezio (CERN); CAMPANIELLO, Marco (SAES Getters); CANETTI, Marco (SAES Rial Vacuum); GANGINI, Fabrizio (SAES Rial Vacuum); PAOLO, Manini (SAES Rial Vacuum); SANTINI, Carlo (SAES Rial Vacuum); ALESSANDRO, Zanichelli (RODOFIL)

09:45 **WED-OR2-103-06: Test result of a full-scale prototype of beam separation dipole magnet for the High-Luminosity LHC upgrade**
SUGANO, Michinaka (KEK); SUZUKI, Kento (KEK); NAKAMOTO, Tatsushi (KEK); IKEDA, Hiroshi (KEK); IKEMOTO, Yukiko (KEK); IIDA, Masahisa (KEK); KAWAMATA, Hiroshi (KEK); KIMURA, Nobuhiro (University of Tokyo); OKADA, Naoki (KEK); OKADA, Ryutaro (KEK); SASAKI, Kenichi (KEK); TAKAHASHI, Naoki (KEK); TANAKA, Kenichi (KEK); TERASHIMA, Akio (KEK); OGITSU, Toru (KEK); OHATA, Hirokatsu (KEK); HORIKOSHI, Atsushi (Hitachi,

Ltd.); MUSSO, Andrea (CERN); TODESCO, Ezio (CERN)

10:00 **WED-OR2-103-07: Analysis of power tests on last MCBXFB magnet prototypes**
MARTINS JARDIM, Carla (Centro de Investigaciones Energeticas, MedioAmbientales y Tecnologicas); ALCAZAR, Cristóbal (Centro de Investigaciones Energeticas, MedioAmbientales y Tecnologicas (CIEMAT)); DOMÍNGUEZ MARTÍNEZ, Manuel Ángel (Centro de Investigaciones Energeticas, MedioAmbientales y Tecnologicas (CIEMAT)); DURAN LUCAS, Oscar (Centro de Investigaciones Energeticas, MedioAmbientales y Tecnologicas (CIEMAT)); ESTEVEZ FORNARI, Antonio (Centro de Investigaciones Energeticas, MedioAmbientales y Tecnologicas (CIEMAT)); GARCIA MATOS, Jesus Angel (Centro de Investigaciones Energeticas, MedioAmbientales y Tecnologicas (CIEMAT)); GARCIA-TABARES, Luis (Centro de Investigaciones Energeticas, MedioAmbientales y Tecnologicas (CIEMAT)); GONZALEZ GOMEZ, Luis Antonio (Centro de Investigaciones Energeticas, MedioAmbientales y Tecnologicas (CIEMAT)); GOMEZ, Pablo (Centro de Investigaciones Energeticas, MedioAmbientales y Tecnologicas (CIEMAT)); JIMENEZ, Jesus (Centro de Investigaciones Energeticas, MedioAmbientales y Tecnologicas (CIEMAT)); MARTINEZ FRESNO, Luis M. (Centro de Investigaciones Energeticas, MedioAmbientales y Tecnologicas (CIEMAT)); MARTINEZ DE ALVARO, Teresa (Centro de Investigaciones Energeticas, MedioAmbientales y Tecnologicas (CIEMAT)); PARDO, Jose Antonio (Centro de Investigaciones Energeticas, MedioAmbientales y Tecnologicas (CIEMAT)); PEREZ, Jose M (Centro de Investigaciones Energeticas, MedioAmbientales y Tecnologicas (CIEMAT)); SOBRINO MOMPEAN, Pablo (Centro de Investigaciones Energeticas, MedioAmbientales y Tecnologicas (CIEMAT)); TORAL, Fernando (Centro de Investigaciones Energeticas, MedioAmbientales y Tecnologicas (CIEMAT)); FERRADAS TROITINO, Salvador (CERN); FISCARELLI, Lucio (CERN); GUINCHARD, Michael (CERN); PEREZ, Juan Carlos (CERN); TODESCO, Ezio (CERN); WILLERING, Gerard (CERN)

8:30 - 10:30 4F 413+414

WED-OR2-302 HTS coil I

Session Moderators: So Noguchi, Hokkaido University and Seungyong Hahn, SNU

08:30 **WED-OR2-302-01: Operation Results of a 23.5-T REBCO Magnet Prototype Towards a Tabletop Liquid-Helium-Free 1-GHz Microcoil NMR**
PARK, Dongkeun (Massachusetts Institute of Technology); LEE, Wooseung (Massachusetts Institute of Technology); BASCUNAN, Juan (Massachusetts Institute of Technology); KIM, Ho Min (Jeju National University); IWASA, Yukikazu (Massachusetts Institute of Technology)

08:45 **WED-OR2-302-02: Metal-as-Insulation HTS Insert for Very-High-Field Magnet: A Test Report after Repairment**
SONG, Jungbin (LNCMI-CNRS); CHAUD, Xavier (Laboratoire National des Champs Magnetiques Intenses - European Magnetic Field Laboratory, UPR3228 Centre National de la Recherche Scientifique, Univ. Grenoble -Alpes, Institut National des Sciences Appliquees de Toulouse, Univ. Paul Sabatier); DEBRAY, Francois (CNRS); FAZILLEAU,

philippe (cea); LECREVISSE, Thibault (CEA-Universite Paris-Saclay (FR))

09:00 **WED-OR2-302-03: Self-protecting behavior of an intra-Layer No-Insulation (LNI) REBCO coil under an LTS outer coil's quench**
SUETOMI, Yu (RIKEN); TAKAHASHI, Keisuke (Sophia University (Graduate school)); TAKAO, Tomoaki (Sophia University); YANAGISAWA, Yoshinori (RIKEN); MAEDA, Hideaki (j)

09:15 **WED-OR2-302-04: Quench Protection and Cyclic Fatigue Test Results for MTI Coils in the 40T All-superconducting Magnet Project at the NHMFL**
BOSQUE, Ernesto (National High Magnetic Field Laboratory); ABRAIMOV, Dmytro (National High Magnetic Field Laboratory); BAI, Hongyu (National High Magnetic Fied Laboratory); BIRD, Mark (National High Magnetic Field Laboratory); BUCHHOLZ, Kyle (National High Magnetic Field Laboratory); DIXON, Iain (National High Magnetic Field Laboratory); GAVRILIN, Andrey (National High Magnetic Field Laboratory); GREEN, Bert (National High Magnetic Field Laboratory); GUNDLACH, Scott (National High Magnetic Field Laboratory); JARVIS, Brent (National High Magnetic Field Laboratory); KIM, Kwangmin (National High Magnetic Field Laboratory); KOLB-BOND, Dylan (National High Magnetic Field Laboratory); MARSHALL, William (National High Magnetic Field Laboratory); VORAN, Adam (National High Magnetic Field Laboratory); WALSH, Robert (National High Magnetic Field Laboratory)

09:30 **WED-OR2-302-05: Hoop stress test of four-stacked two-ply REBCO pancake coils**
TAKAHASHI, Kohki (Tohoku University); OKADA, Tatsunori (Tohoku University); BADEL, Arnaud (Tohoku University); AWAJI, Satoshi (Tohoku University); MIYAZAKI, Hiroshi (Toshiba Energy System, Solutions Corporation); HANAI, Satoshi (Toshiba Energy System, Solutions Corporation); IOKA, Shigeru (Toshiba Energy System, Solutions Corporation)

09:45 **WED-OR2-302-06: Development of ReBCO Insert Solenoids for Its High Field Application Performance Verification**
JIN, Huan

10:00 **WED-OR2-302-07: Successful demonstration of the first CORC® cable insert solenoid in 14 T background magnetic field operating at currents exceeding 4 kA, current densities of over 250 A/mm2, and 275 MPa source (JBR) stress**
WEISS, Jeremy (Advanced Conductor Technologies and University of Colorado, Boulder); VAN DER LAAN, Danko (Advanced Conductor Technologies); TROCIEWITZ, Ulf (NHMFL); ABRAIMOV, Dmytro (NHMFL); FRANCIS, Ashleigh (National High Magnetic Field Laboratory); BOSQUE, Ernesto (National High Magnetic Field Laboratory); GILLMAN, James (ASC, NHMFL); DAVIS, Daniel (FSU/NHMFL); KIM, Youngjae (National High Magnetic Field Laboratory); GRIFFIN, Van (ASC, NHMFL); MILLER, George (ASC, NHMFL); WEIJERS, Huub (Victoria University of Wellington); COOLEY, Lance; LARBALESTIER, David (National High Magnetic Field Laboratory); WANG, Xiaorong (Lawrence Berkeley National Laboratory)

10:15 **WED-OR2-302-08: Bi-2212 Coil Technology**
TROCIEWITZ, Ulf (Applied Superconductivity Center/National High Magnetic Field L); KIM, Youngjae (National High Magnetic Field Laboratory); DAVIS, Daniel (FSU/NHMFL); BOSQUE, Ernesto (National High Magnetic Field Laboratory); ENGLISH, Lamar (National High Magnetic Field Laboratory); KVITKOVIC, Jozef (Florida State University); BRADFORD, Griffin (FSU NHMFL ASC); MARTIN, Emma (Applied Superconductivity Center/National High Magnetic Field L); JIANG, Jianyi (Florida State University); HELLSTROM, Eric (Florida); HOSSAIN, S Imam (National High Magnetic Field Laboratory, Florida State University, Tallahassee, Florida, FL 32310, USA); BARUA, Shaon (Florida State University); MILLER, George (ASC, NHMFL); LU, Jun (NHMFL); LEVITAN, Jeremy (National High Magnetic Field Lab); LARBALESTIER, David (National High Magnetic Field Laboratory)

13:45 - 14:45 3F Main Hall

Young Scientist Plenary

Session Moderators: Satoshi Awaji, Tohoku University and Laura Garcia Fajardo, LBNL

13:45 **Introduction**
GARCIA FAJARDO, Laura (LBNL)

13:50 **[Plenary] A circular economy using superconductors: magnetic density Separation**
KOSSE, Jaap (PSI)

13:57 **[Plenary] Coupling superconducting magnet technology with large momentum acceptance beamlines to enable lightweight, high performance gantries for ion beam cancer therapy**
BROUWER, Lucas (LBNL)

14:04 **[Plenary] HTS Superconducting Joint for Persistent Current Mode Magnets**
TAKEDA, Yasuaki (NIMS)

14:11 **[Plenary] Nb3Sn: beyond NbTi, for moving beyond the Standard Model**
CAIFFI, Barbara (INFN)

14:18 **[Plenary] Tokamaking, some reflections and afterthoughts**
ROMANELLI, Gherardo (ENEA)

14:25 **[Plenary] The need for system-oriented approaches for complex magnet design and operation**
LOUZGUITI, Alexandre (CEA)

14:32 **Discussion**

14:45 - 15:30 — 3F Main Hall

Plenary: Eric Forton (IBA - Ion Beam Applications)

Radiation Therapy Systems

Session Moderators: Toru Ogitsu, KEK and Kazuya Takahata, NIFS

14:45 **WED-PL3: [Plenary] Radiation Therapy Systems**
FORTON, Eric (IBA Ion Beam Applications)

16:00 - 18:00 — 3F Main Hall

WED-OR3-503 Magnet System, Novel and Other Applications

Session Moderators: Gen Nishijima, NIMS and Philippe Fazilleau, CEA Sacley

16:00 **WED-OR3-503-01: [Invited] Assembly and Test of the world's first conduction-cooled NbTi Magnet System for Magnetic Density Separation**
TOMAS, Goncalo (University of Twente); KOSSE, Jaap Jeroen (PSI Paul Scherrer Institut); KROOSHOOP, Erik (University of Twente); LEFERINK, Jorick (University of Twente); WESSEL, Sander (University of Twente); REM, Peter (University of Delft); KARIO, Anna (University of Twente); DHALLÉ, Marc (University of Twente); TER BRAKE, Marcel (University of Twente, The Netherlands); TEN KATE, Herman (University of Twente)

16:15 **WED-OR3-503-02: Development of Bi-2223 magnet for magnetic refrigeration system**
NISHIJIMA, Gen (National Institute for Materials Science); AMAYA, Munenori (National Institute for Materials Science); NISHIMURA, Takashi (Sumitomo Electric Industries, Ltd.); KAMIYA, Koji (National Institute for Materials Science); NUMAZAWA, Takenori (National Institute for Materials Science)

16:30 **WED-OR3-503-03: Manufacturing technologies for cost effective HTS coils and magnet systems**
HINTZE, Cornelia (THEVA Dunnschichttechnik GmbH); BENDELE, Markus (THEVA Dunnschichttechnik GmbH); SMARA, Anis (THEVA Dunnschichttechnik GmbH); GROSSE, Veit (THEVA Dunnschichttechnik GmbH)

16:45 **WED-OR3-503-04: Design and Test of a Superconducting Lens for an Ultra-Stable Electron Microscope**
BROUWER, Lucas (Lawrence Berkeley National Laboratory); SHEN, Tengming (Lawrence Berkeley National Lab); CISTON, James (Lawrence Berkeley National Laboratory); DENES, Peter (Lawrence Berkeley National Laboratory); ERCIUS, Peter (Lawrence Berkeley National Laboratory); HAFALIA, Aurelio (Unknown); QING, Ji (Lawrence Berkeley

National Laboratory); MINOR, Andrew (Lawrence Berkeley National Laboratory); NORRIS, Ryan (Lawrence Berkeley National Laboratory); OPHUS, Collin (Lawrence Berkeley National Laboratory); SCHLUETER, Ross (Lawrence Berkeley National Laboratory); STIBOR, Alexander (Lawrence Berkeley National Laboratory); WANG, Li (Lawrence Berkeley National Laboratory)

17:00 **WED-OR3-503-05: Characterization of a soldered metal insulation HTS ReBCO demonstrator coil for an astroparticle physics experiment in space**
ROSSI, Lucio (Universita degli Studi e INFN Milano (IT)); DAM, Magnus; DE RIJK, Gijs (CERN); CHESTA, Enrico (CERN); IUPPA, Roberto (Universita degli Studi di Trento and INFN (IT)); CARPENTIERO, Rita (AGENZIA SPAZIALE ITALIANA); BURGER, William (Universita degli Studi di Trento and INFN (IT))

17:15 **WED-OR3-503-06: Presentation withdrawn**

17:30 **WED-OR3-503-07: Design of a Bifilar HTS Switching Element Using Iron-Core Field Coils**
RICE, James (Victoria University of Wellington); GENG, Jianzhao (Victoria University of Wellington); BADCOCK, Rodney A. (Victoria University of Wellington); MOSELEY, Dominic (Robinson Research Institute, Victoria University of Wellington); ZHANG, Heng (UK Atomic Energy Authority); WRAY, Steven (UK Atomic Energy Authority, Culham Science Centre)

17:45 **WED-OR3-503-08: Cryogenic DC/DC converter for superconducting magnet applications**
EL-WAKEEL, Abdelrahman (University of Strathclyde); PENA ALZOLA, Rafael (University of Strathclyde); MCNEILL, Neville (University of Strathclyde); ZHANG, Min (University of Strathclyde); WILLIAMS, Barry (University of Strathclyde); YUAN, Weijia (University of Strathclyde)

16:00 - 18:00 4F 409+410

WED-OR3-201 Fusion Magnets I

Session Moderators: Hitoshi Tamura, NIFS and Thierry Schild, ITER

16:00 **WED-OR3-201-01: [Invited] Strategy for developing the EU-DEMO Magnet System in the Conceptual Design Phase**
CORATO, Valentina (ENEA) Co-author: FEDERICI, Gianfranco (EUROfusion)

16:15 **WED-OR3-201-02: [Invited] Engineering Design and R&D Work for Toroidal Field Superconducting Magnet of CFETR**
ZHENG, Jinxing (Institute of Plasma Physics, Chinese Academy of Sciences); SONG, Yuntao (Institute of Plasma Physics, Chinese Academy of Sciences); LIU, Xufeng (Institute of Plasma Physics, Hefei Institutes of Physical Science, Chinese Academy of

Sciences); SHEN, Guang (Institute of Plasma Physics, Hefei Institutes of Physical Science, Chinese Academy of Sciences); YU, Xiaowu (Institute of Plasma Physics, Hefei Institutes of Physical Science, Chinese Academy of Sciences); XU, Weiwei (Institute of Plasma Physics, Hefei Institutes of Physical Science, Chinese Academy of Sciences); LIU, Fei (Institute of Plasma Physics, Hefei Institutes of Physical Science, Chinese Academy of Sciences); NI, Xiaojun (Institute of Plasma Physics, Hefei Institutes of Physical Science, Chinese Academy of Sciences); DU, Shuangsong (Institute of Plasma Physics, Hefei Institutes of Physical Science, Chinese Academy of Sciences); GE, Jian (Institute of Plasma Physics, Hefei Institutes of Physical Science, Chinese Academy of Sciences); QIN, Shijun (Institute of Plasma Physics, Hefei Institutes of Physical Science, Chinese Academy of Sciences); LI, Ming (Institute of Plasma Physics, Hefei Institutes of Physical Science, Chinese Academy of Sciences); ZHU, Lei (Institute of Plasma Physics, Hefei Institutes of Physical Science, Chinese Academy of Sciences); CHENG, Yuan (Institute of Plasma Physics, Hefei Institutes of Physical Science, Chinese Academy of Sciences); LIU, Haiyang (Institute of Plasma Physics, Hefei Institutes of Physical Science, Chinese Academy of Sciences)

16:30 **WED-OR3-201-03: Design study of superconducting TF coil concept with rectangular conductor layer winding with high manufacturability and insulation reliability for JA DEMO**

UTOH, Hiroyasu (National Institutes for Quantum and Radiological Science and Technology); MIURA, Hideaki (Mitsubishi Electric Corporation); ARAKAWA, Hitoshi (Mitsubishi Electric Corporation); ECHIZENYA, Daisuke (Mitsubishi Electric Corporation); HASEGAWA, Mitsuru (Mitsubishi Electric Corporation); NOMOTO, Kazuhiro (Mitsubishi Electric Corporation); HIWATARI, Ryoji (National Institutes for Quantum and Radiological Science and Technology); SAKAMOTO, Yoshiteru (National Institutes for Quantum and Radiological Science and Technology)

16:45 **WED-OR3-201-04: Development of the “Demo4” 1.5m-scale spherical tokamak HTS magnet demonstrator at Tokamak Energy**

BRITTLES, Greg (Tokamak Energy); DOWN, Alun (Tokamak Energy Ltd); VAN NUGTEREN, Jeroen (Little Beast Engineering); VAN NUGTEREN, Bas (Tokamak Energy Ltd); SLADE, Robert (Tokamak Energy Ltd); BATEMAN, Rod (Tokamak Energy Ltd); BRISTOW, Matthew (Tokamak Energy Ltd)

17:00 **WED-OR3-201-05: DTT: a challenging framework for a sound superconducting magnets design**

DI ZENOBIO, Aldo (ENEA); ANEMONA, Alessandro (ENEA); BONIFETTO, Roberto (Politecnico di Torino); ANTONIO, Cucchiaro (DTT Scarl); DELLA CORTE, Antonio (Enea); DE MARZI, Gianluca (ENEA, 00044 Frascati, Italy); FIAMOZZI ZIGNANI, Chiarasole (ENEA); GIANNINI, Lorenzo (ENEA); GIORGETTI, Francesco (Universita Tuscia); INDRIGO, Dennis (ENI S.p.A.); MESSINA, Giuseppe (ENEA); MORICI, Luigi (ENEA); MUZZI, Luigi (ENEA); PIZZUTO, Aldo (DTT Scarl); POLLI, Gian Mario (DTT Scarl); RAMOGIDA, Giuseppe (DTT Scarl); ROMANELLI, Gherardo (ENEA); SAVOLDI, Laura (Politecnico di Torino); SIMONETTA, Turtu (ENEA); ZANINO, Roberto (Politecnico di Torino); ZAPPATORE, Andrea (Politecnico di Torino); ZOBOLI, Lorenzo (ENEA & Universita Tor Vergata)

17:15 **WED-OR3-201-06: Design and structural assessment overview of the DTT TFC system**
ROMANELLI, Gherardo (ENEA); DI ZENOBIO, Aldo (ENEA); ANEMONA, Alessandro (ENEA); ZOBOLI, Lorenzo (ENEA & Universita Tor Vergata); GIANNINI, Lorenzo (ENEA); TURTU', Simonetta (ENEA/ICAS); MUZZI, Luigi (ENEA); DELLA CORTE, Antonio (Enea)

17:30 **WED-OR3-201-07: Test and Analysis of Stacked-Tape-Wound Laboratory-Scale NI HTS TF Module Coil**
LEE, Jung Tae (Seoul National University); PARK, Jeonghwan (Seoul National University); BONG, Uijong (Seoul National University); KIM, Geonyoung (Seoul National University); BANG, Jeseok (Seoul National University); KIM, Young-Gyun (Korea Institute of Fusion Energy); KIM, Hyun Wook (Korea Institute of Fusion Energy); RYU, Yunyeol (Department of Materials Science and Engineering, Korea University, Seoul, 02841, Korea); LEE, Haigun (Korea University); OH, Sangjun (Korea Institute of Fusion Energy); HAHN, Seungyong (Seoul National University)

17:45 **WED-OR3-201-08: Presentation withdrawn**

16:00 - 18:00 4F 413+414

WED-OR3-702 Magnetization and Loss

Session Moderators: Yuji Tsuchiya, Nagoya University and Emmanuele Ravaioli, CERN

16:00 **WED-OR3-702-01: Magnetization Relaxation by Shielding Current in Commercial REBCO Tapes**
TSUCHIYA, Yuji (Nagoya Univ.); FUNAKI, Shuhei (Shimane Univ.); OZAKI, Toshinori; KIUCHI, Masaru (Kyushu Institute of Technology); YOSHIDA, Yutaka (Nagoya University)

16:15 **WED-OR3-702-02: Modeling of screening currents in superconducting non-insulated REBCO magnets: fast and accurate 2D approach**
PARDO, Enric (IEE Slovak Academy of Sciences); FAZILLEAU, Philippe (Commissariat a l'energie atomique et aux energies alternatives (CEA))

16:30 **WED-OR3-702-03: Field Quality Measurements of High-Temperature Superconducting Canted Cosine Theta Accelerator Magnets**
MYERS, Cory (Lawrence Berkeley National Lab); WANG, Xiaorong (Lawrence Berkeley National Laboratory); SHEN, Tengming (Lawrence Berkeley National Lab); GARCIA FAJARDO, Laura (Lawrence Berkeley National Laboratory); DIMARCO, Joseph (Fermilab); SABBI, GianLuca (LBNL); SUMPTION, Mike (The Ohio State University); PRESTEMON, Soren

16:45 **WED-OR3-702-04: Magnetic Measurements Results and Analysis of the First Batches of Superferric Magnets for the HL-LHC High Order Field Correction**
DE MATTEIS, Ernesto (INFN Milan LASA); MARIOTTO, Samuele (University of Milan INFN

Milan); BROGGI, Francesco (INFN LASA Lab.); LEONE, Augusto (INFN Sezione di Milano (INFN)); PACCALINI, Antonio (INFN Sezione di Milano (INFN)); PALMISANO, Arsenio (INFN); PASINI, Alessandro (INFN Milano LASA); PEDRINI, Danilo Felice (Universita degli Studi e INFN Milano (IT)); PRIOLI, Marco (INFN Milano); ROSSI, Lucio (Universita degli Studi e INFN Milano (IT)); SORBI, Massimo Leone (Universita degli Studi e INFN Milano (IT)); STATERA, Marco (INFN Milano LASA); TODERO, Maurizio (Universita degli Studi e INFN Milano (IT)); UVA, Carlo (INFN Milano LASA); VALENTE, Riccardo Umberto (LASA-INFN (Milano, Italy)); FISCARELLI, Lucio (CERN); MUSSO, Andrea (CERN); TODESCO, Ezio (CERN)

17:00 **WED-OR3-702-05: New Methods to Reduce Fast-Ramping AC loss in High Temperature Superconductors Coils at High Currents of 500 A – 800 A**
SONG, Honghai (Stony Brook University); JIANG, Zhenan (Victoria University of Wellington); VILLAVICENCIO , Kevin (Stony Brook University)

17:15 **WED-OR3-702-06: 3D magnetic field maps and alignment of the Superconducting Multipole Triplet (SMT)**
ESPER, Alexandre (GANIL); STODEL, Marc-Hervé (GANIL); SAVAJOLS, Hervé (GANIL); AUTHIER, Martial (IRFU, CEA-Saclay); CARVILLE, Frederic (GANIL); DROUART, Antoine (Irfu, CEA-Saclay,); GAMPA, Ravi (Argonne National Laboratory); LEFEVRE, Alexis (GANIL); LEFROU, Thierry (GANIL); LUTTON, Franck (GANIL); NOLEN, Jerry (Argonne National Laboratory); SONG, Jeongseog (Argonne National Laboratory)

17:30 **WED-OR3-702-07: Analytical modeling of coupling losses in CICCs, extensive study of the COLISEUM model**
BABOUCHE, Romain (CEA Cadarache IRFM); ZANI, Louis (CEA Cadarache IRFM); TURCK, Bernard (CEA Cadarache IRFM); DUCHATEAU , Jean-Luc (CEA Cadarache IRFM); TOPIN, Frederic (AMU IUSTI)

17:45 **WED-OR3-702-08: Dynamic Simulation on Flow Characteristics of KSTAR PF Magnet Cryogenic Network**
OH, Sangjun (Korea Institute of Fusion Energy); KIM, Hyun Wook (Korea Institute of Fusion Energy); CHU, Yong (Korea Institute of Fusion Energy); PARK, Dong-Seong (Korea Institute of Fusion Energy); OH, Dong Keun (Korea Institute of Fusion Energy)

18:25 - 20:30 3F Main Hall

WED-SS Special Session "Lesson learned"

Session Moderators: Satoshi Awaji, Tohoku University and Pierluigi Bruzzone, PSI

18:25 **Introduction**
Pierluigi Bruzzone (PSI)

18:30 **WED-SS-01: [Invited] Successes & Failures in Design Solutions During the 30 Year Life of ITER (and how we could have improved)**
MITCHELL, Neil

18:50 **WED-SS-02: [Invited] Lessons Learned in the Development of Accelerator Magnets based on Nb3Sn and HTS**
GOURLAY, Stephen (LBNL)

19:10 **WED-SS-03: [Invited] Lessons learnt in HL-LHC interaction region superconducting magnets: two case studies**
TODESCO, Ezio (CERN); NAKAMOTO, Tatsushi (KEK); SUGANO, Michinaka; SUZUKI, Kento; MUSSO, Andrea (CERN); TORAL, Fernando (Centro de Investigaciones Energeti cas Medioambientales y Tecno); MARTINS JARDIM, Carla (Centro de Investigaciones Energeticas, MedioAmbientales y Tecnologicas); GARCIA MATOS, Jesus Angel; PEREZ, Juan Carlos (CERN)

19:30 **WED-SS-04: [Invited] Some Lessons Learned During 27 Years Operating Above 27 Tesla.**
BIRD, Mark (FSU)

19:50 **WED-SS-05: [Invited] Lessons Learned in No-insulation HTS Magnet Technology**
LARBALESTIER, David (National High Magnetic Field Laboratory); HAHN, Seungyong (Seoul National University)

20:10 **WED-SS-06: [Invited] Bringing a Nuclear Quality Approach to Superconducting Magnets**
MIN, Liao (ITER organization)

On-line 7:00 - 8:00, On-site 10:30 - 12:30, On-line 21:00 - 22:00

2F Multipurpose Hall

WED-PO2-105 Accelerator Magnets III: undulators and related magnets

Session Moderator: Masami Iio, KEK

WED-PO2-105-01: Presentation withdrawn

WED-PO2-105-02: Design, Fabrication, and Testing of a 1.9 m Long, 16.5 mm Period NbTi Superconducting Undulator for the Advanced Photon Source Upgrade
KASA, Matthew (Argonne National Laboratory); ANLIKER, Ethan (Argonne National Laboratory); HASSE, QUENTIN (Argonne National Laboratory); HU, Hong (Argonne National Laboratory); KESGIN, Ibrahim (Argonne National Laboratory); MOOG, Elizabeth (Argonne National Laboratory); SHIROYANAGI, Yuko (Argonne National Laboratory); IVANYUSHENKOV, Yury (ANL)

WED-PO2-105-04: Presentation withdrawn

WED-PO2-105-05: Phasing Magnet for CSX-2 beamline at NSLS-II
MUSARDO, Marco (Brookhaven National Laboratory); TANABE, Toshiya (Brookhaven National Laboratory); RANK, James (Brookhaven National Laboratory); CORWIN, Todd (Brookhaven National Laboratory); HARDER, David (Brookhaven National Laboratory); RHEIN, Craig (Brookhaven National Laboratory)

WED-PO2-105-06: [Invited] Stability of Nb3Sn Superconducting Planar Undulator for ANL Advanced Photon Source
BARZI, emanuela (Fermilab); IVANYUSHENKOV, Yury (ANL); KASA, Matthew (Argonne National Laboratory); KESGIN, Ibrahim (Argonne National Laboratory); ZLOBIN, Alexander (Fermilab); TURRIONI, Daniele (FNAL (US))

WED-PO2-105-07: Status Report of Sirius Delta Undulator
SOARES, Vitor (Brazilian Center for Research in Materials and Energy); CITADINI, James (Brazilian Center for Research in Materials and Energy); VILELA, Luana (razilian Center for Research in Materials and Energy)

WED-PO2-105-08: The Fabrication Technology and Test Results of the NbTi Superconducting Racetrack Magnet
SUN, Wanshuo (Institute of Electrical Engineering, Chinese Academy of Sciences); CHEN, Shunzhong (Institute of Electrical Engineering, Chinese Academy of Sciences); WANG, Lei (Institute of Electrical Engineering, Chinese Academy of Sciences); CHENG, Junsheng (Institute of Electrical Engineering, Chinese Academy of Sciences); SUN, Jinshui (Institute of Electrical Engineering, Chinese Academy of Sciences); WANG, Qiuliang (Institute of Electrical Engineering, Chinese Academy of Sciences)

WED-PO2-105-09: THE MAGNETIC FIELD MEASUREMENT SYSTEMS FOR Pr2Fe14B Based CRYOGENIC UNDULATOR AT HEPS
CHEN, wan (Insitute of High Energy Physics CAS CN)

WED-PO2-105-10: The optimized magnetic field of an arbitrary polarized electromagnetic Undulator
CHANG, Yuhsiang (NSRRC); HWANG, Ching-Shiang (NSRRC)

WED-PO2-105-11: Thermal-structural analyses on magnetic structure of the CPMU prototype in SSRF
WANG, Jian (Huazhong University of Science and Technology (HUST)); WANG, Li (Lawrence Berkeley National Laboratory); LIU, Yiyong ((Shanghai Advanced Research Institute, Chinese Academy of Sciences (SARI-CAS))); ZHANG, Wei ((Shanghai Advanced Research Institute, Chinese Academy of Sciences (SARI-CAS)))

On-line 7:00 - 8:00, On-site 10:30 - 12:30, On-line 21:00 - 22:00

2F Multipurpose Hall

WED-PO2-107 Accelerator Magnets V: LTS

Session Moderator: Masami Iio, KEK

WED-PO2-107-01: Design of 6T superconducting solenoid system for spin polarization control at NICA collider
DEMIKHOV, Eugeny (FIAN); LYSSENKO, Valery (FIAN); RYBAKOV, Aleksandr (Fian)

WED-PO2-107-02: Design of a large aperture Canted Cosine Theta (CCT) combined function curved superconducting bending magnet
LU, Jiaqi (Institute of Modern Physics, Chinese Academy of Sciences); MA, Lizhen (Institute of Modern Physics, Chinese Academy of Sciences); LIANG, Yu (Institute of Modern Physics,Chinese Academy of Sicences); MEI, Enming (IMPCAS); YOU, wei (Institute of Modern Physics, Chinese Academy of Sciences); WU, Wei (Institute of Modern Physics, Chinese Academy of Sciences); YAO, Qinggao (Institute of Modern Physics, Chinese Academy Sciences)

WED-PO2-107-03: Energization and Magnetic Field Mapping Results of Cold Iron Quadrupole Triplet for Vertical Pre-Separator of the Facility for Rare Isotope Beams
CHOI, Yoonhyuck (Facility for Rare Isotope Beams, Michigan State University); PORTILLO, Mauricio (Facility for Rare Isotope Beams, Michigan State University); CHANG, Wei (Facility for Rare Isotope Beams, Michigan State University); GREENE, David (Facility for Rare Isotope Beams, Michigan State University); MAGSIG, Chris (Facility for Rare Isotope Beams, Michigan State University); WENSTROM, Jeffrey (Facility for Rare Isotope Beams, Michigan State University); COMPTON, Crhis (Facility for Rare Isotope Beams, Michigan State University); BULTMAN, Nathan (Facility for Rare Isotope Beams, Michigan State University); XU, Ting (Facility for Rare Isotope Beams, Michigan State University)

WED-PO2-107-04: Industrial production of superconducting magnets for the FAIR SIS100 accelerator
WALTER, Wolfgang (Bilfinger Noell GmbH); HEYN, Katrin (Bilfinger Noell GmbH); SATTLER, Stefan (Bilfinger Noell GmbH); SCHOENBEIN, Rudi (Bilfinger Noell GmbH); ROUX, Christian (GSI); KAETER, Florian (GSI); SEGUITA, Kei (GSI); WINKLER, Tiemo (GSI Helmholtzzentrum fur Schwerionenforschung GmbH); MEIER, Jan Patrick (GSI)

WED-PO2-107-05: Magnetic Field Shielding with Superconductors
IWASHITA, yoshihisa; FUWA, Yasuhiro (Japan Atomic Energy Agency); KURIYAMA, Yasutoshi (Kyoto University)

WED-PO2-107-06: Performance of 7 T dry solenoid for THz spectroscopy
BRAGIN, Aleksei (Budker Institute of Nuclear Physics (RU)); MEZENTSEV, Nikolay (Budker Institute of Nuclear Physics); SHKARUBA, Vitaly (BINP); KUBAREV, Vitaly (BINP); KHRUSHCHEV, Sergey (BINP); TSUKANOV, Valery (BINP)

WED-PO2-107-07: Superconducting Curved Canted-Cosine-Theta (CCT) Nested and Combined Error Free Dipole Quadrupole Fields Coil Geometry for the HIE-ISOLDE Recoil Separator Ring Project.
KIRBY, Glyn (CERN); FOUSSAT, Arnaud (CERN); RODIN, Volodymyr (Department of Physics University of Liverpool); RESTA-LOPEZ, Javier (Department of Physics University of Liverpool); MARTEL BRAVO, Ismael (Dpt. Ciencias Integradas, Univ. Huelva, Spain.)

WED-PO2-107-08: Presentation withdrawn

On-line 7:00 - 8:00, On-site 10:30 - 12:30, On-line 21:00 - 22:00

2F Multipurpose Hall

WED-PO2-111 High Field Accelerator Magnets II: Hybrid and HTS

Session Moderator: Masami Iio, KEK

WED-PO2-111-01: 20 T Hybrid Nb3Sn-HTS Block-coil Design for a Future Particle Collider
ROCHEPAULT, Etienne (Universite Paris-Saclay (FR)); FERRACIN, Paolo; VALLONE, Giorgio (Lawrence Berkeley National Lab. (US))

WED-PO2-111-02: 3D Conceptual Design of R2D2, the Research Racetrack Dipole Demonstrator
ROCHEPAULT, Etienne (Universite Paris-Saclay (FR)); DURANTE, Maria; RONDEAUX, Francoise (CEA PAris-Saclay); CALVELLI, Valerio; PERRAUD, Simon (Universite Paris-Saclay (FR)); MANIL, Pierre (Universite Paris-Saclay (FR)); MINIER, Gilles (CEA Paris-Saclay); PEREZ, Juan Carlos (CERN); FELICE, Helene (CERN)

WED-PO2-111-04: Cloverleaf dipole demonstrator magnet with 2-tape ReBCO stack conductor
NES, Thomas (Twente Technical University (NL)); KIRBY, Glyn (CERN); DE RIJK, Gijs (CERN); CANALE, Matthieu (Universite de Savoie Mont-Blanc (FR)); GENTINI, Luca (CERN); VAN NUGTEREN, Jeroen (LittleBeast); KARIO, Anna (University of Twente); TEN KATE, Herman

WED-PO2-111-05: Conceptual design optimization of a 20 T hybrid cos-theta dipole superconducting magnet for future High-Energy particle accelerators.
MARINOZZI, Vittorio (FNAL); FERRACIN, Paolo; BARZI, emanuela (Fermilab); ZLOBIN, Alexander (Fermilab); NOVITSKI, Igor (FERMILAB); GUPTA, Ramesh (BNL); PRESTEMON, Soren; AMBROSIO, Giorgio (Fermilab); KASHIKHIN, Vadim (Fermilab); STERN, Jillian (Tufts University)

WED-PO2-111-06: Presentation withdrawn

WED-PO2-111-07: Presentation withdrawn

WED-PO2-111-08: First canted cosine theta Bi-2212 accelerator magnets: Fabrication, performance, and prospects

SHEN, Tengming (Lawrence Berkeley National Lab); GARCIA FAJARDO, Laura (Lawrence Berkeley National Laboratory); HAFALIA, Aurelio (Unknown); ARBELAEZ, Diego; BROUWER, Lucas (Lawrence Berkeley National Laboratory); CASPI, Shlomo; FERRACIN, Paolo; MARCHEVSKY, Maxim; MYERS, Cory (Lawrence Berkeley National Lab); PONG, Ian (LBNL); PRESTEMON, Soren; TEYBER, Reed (Lawrence Berkeley National Laboratory); RUDEIROS FERNANDEZ, Jose Luis; WANG, Xiaorong (Lawrence Berkeley National Laboratory); BOSQUE, Ernesto (National High Magnetic Field Laboratory); COOLEY, Lance; DAVIS, Daniel (FSU/NHMFL); HELLSTROM, Eric (Florida); JIANG, Jianyi (Florida State University); KIM, Youngjae (National High Magnetic Field Laboratory); LARBALESTIER, David (National High Magnetic Field Laboratory); LU, Jun (NHMFL); TROCIEWITZ, Ulf (NHMFL); HUANG, Yibing (Oxford Superconducting Technology); PARRELL, Jeff (Oxford Superconducting Technology)

WED-PO2-111-09: Magneto-Mechanical Optimization of Cross-sections for cos Θ Accelerator Magnets

VALLONE, Giorgio (Lawrence Berkeley National Lab. (US)); AUCHMANN, Bernhard (PSI Paul Scherrer Institute)

WED-PO2-111-10: Proof-of-Principle Demonstration of a Novel Overpass/Underpass High Field Dipole

GUPTA, Ramesh (BNL); ANERELLA, Michael (Brookhaven National Laboratory); AVRONSART, Julien (Brookhaven National Laboratory); COZZOLINO, John (Unknown); JOSHI, Piyush (Brookhaven National Laboratory); KOVACH, Paul (Brookhaven National Laboratory); SCHMALZLE, Jesse; KAHN, Stephen (Muons, Inc.); KOLONKO, J. (Unknown); LARSON, Delbert (Particle Beam Lasers, Inc.); SCANLAN, Roland (Particle Beam Lasers, Inc.); WEGGEL, Robert (Particle Beam Lasers, Inc); WILLEN, Erich (Particle Beam Lasers, Inc.); ZELLER, Al (Michigan State Univ.)

On-line 7:00 - 8:00, On-site 10:30 - 12:30, On-line 21:00 - 22:00

2F Multipurpose Hall

WED-PO2-114 Particle Detector Magnets

Session Moderator: Hiromi Iinuma, Ibaraki University

WED-PO2-114-01: A complete magnetic design for the DUNE ND-GAr solenoid magnet

BERSANI, Andrea; MUSENICH, Riccardo (INFN e Universita Genova (IT)); CAIFFI, Barbara; FARINON, Stefania (INFN e Universita Genova (IT)); FABBRICATORE, Pasquale (INFN e Universita Genova (IT)); PALLAVICINI, Marco (Universita' di Genova & INFN Genova); DI NOTO, Lea (INFN e Universita Genova (IT)); FERRARO, Federico (INFN National Institute for Nuclear Physics); BROSS, Alan (Fermilab); NARUG, Colin (Fermi National Accelerator Laboratory); MITCHELL, Don (FERMILAB)

WED-PO2-114-02: CERN North Area Multi-Purpose Superconducting Magnet Facility

SINGH, Shuvay (CERN); CURE, Benoit (CERN); MENTINK, Matthias (CERN); DUDAREV, Alexey (CERN); NERONI, Michela (Sapienza Universita e INFN, Roma I (IT)); GLUCHOWSKA, Weronika (University of Wroclaw (PL))

WED-PO2-114-03: Design and Manufacture of two High Gradient Quadrupoles based on Permanent Magnets for the Antiproton Decelerator
THONET, Pierre Alexandre (CERN)

WED-PO2-114-04: Designing a Large-gap Superferric Dipole Magnet for CEE
YOU, wei (Institute of Modern Physics, Chinese Academy of Sciences); MEI, Enming (Institute of Modern Physics, Chinese Academy of Sciences); CHEN , Yuquan (Institute of Modern Physics, Chinese Academy of Sciences); LU, Jiaqi (Institute of Modern Physics, Chinese Academy of Sciences); LIANG, Yu (Institute of Modern Physics, Chinese Academy of Sciences); WU, Beimin (Institute of Modern Physics, Chinese Academy of Sciences); ZHENG, Shijun (Institute of Modern Physics, Chinese Academy of Sciences); YAO, Qinggao (Institute of Modern Physics, Chinese Academy of Sciences); WU, Wei (Institute of Modern Physics, Chinese Academy of Sciences)

WED-PO2-114-08: Magnetic Measurement and Cold Test Results of the Mu2e Transport Solenoid Coils
BADGLEY, Karie (Fermilab); AMBROSIO, Giorgio (Fermilab); DIMARCO, Joseph (Fermilab); EVBOTA, Daniel (Fermilab); HOCKER, Andy; LAMM, Michael (Fermi National Accelerator Laboratory (FNAL)); LOMBARDO, Vito (Fermi National Accelerator Laboratory); STRAUSS, Thomas (FNAL)

WED-PO2-114-09: Manufacture of the Proton Electron Radiation Channel (PERC) installed at the Research Neutron Source FRM II
FLASSIG, Stefan (Bilfinger Noell GmbH); FREUND, Tobias (Bilfinger Noell GmbH); MARKISCH, Bastian (Technische Universitat Munchen); THEISEN, Eckhard (Bilfinger Noell); WALTER, Wolfgang (Bilfinger Noell GmbH)

WED-PO2-114-10: Presentation withdrawn

WED-PO2-114-11: Software Architecture and Hardware Organization in Mu2e Solenoid Field Mapping System
NOGIEC, Jerzy (Fermilab); GRUDZINSKI, James (Argonne National Laboratory (ANL)); AKELLA, Padma (Fermilab); TALAGA, Richard (ANL); WAGNER, Robert (ANL); FEHER, Sandor (FNAL); STRAUSS, Thomas (FNAL)

WED-PO2-114-12: Superconducting magnets for antimatter traps or neutron traps – designed and manufactured in industry
HOBL, Achim (Bilfinger Noell GmbH); AMEND, Johannes (Bilfinger Noell GmbH); GERHARD, Thomas (Bilfinger Noell GmbH); STEINMANN, Jochen (Bilfinger Noell GmbH); WALTER, Wolfgang (Bilfinger Noell GmbH); WU, Hong (Bilfinger Noell GmbH)

On-line 7:00 - 8:00, On-site 10:30 - 12:30, On-line 21:00 - 22:00

2F Multipurpose Hall

WED-PO2-116 Resistive acclerator magnets I

Session Moderator: Hiromi Iinuma, Ibaraki University

WED-PO2-116-01: 3D modeling of the decapole corrector for the FAIR project
RIABCHENKO, Kseniia; STAROSTENKO, Alexandr (BINP); RYBITSKAYA, Tatyana (BINP)

WED-PO2-116-02: A New Branching Point and Primary Beam Line at the J-PARC Hadron Experimental Facility
HIROSE, Erina (Institute of Particle and Nuclear Studies, High Energy Accelerator Research Organization); TOYODA, Akihisa (KEK); MUTO, Fumimasa (Institute of Particle and Nuclear Studies, High Energy Accelerator Research Organization); WATANABE, Hiroaki (KEK); AKIYAMA, Hironobu (KEK); TAKAHASHI, Hitoshi (Institute of Particle and Nuclear Studies, High Energy Accelerator Research Organization); TANAKA, Kazuhiro (KEK, High Energy Accelerator Research Organization); AOKI, Kazuya (KEK); AGARI, Keizo (KEK); OZAWA, Kyoichiro (High Energy Research Institute, KEK); IEIRI, Masaharu (KEK); MINAKAWA, Michifumi (KEK); KURASAKI, Ruri (KEK); MUTO, Ryotaro; SAWADA, Shinya (KEK); KATOH, Yohji (KEK); SATO, Yoshinori (KEK); KOMATSU, Yusuke (University of Tokyo); YAMANOI, Yutaka (KEK)

WED-PO2-116-03: Design, Manufacture and Measurement of three Permanent Magnet Dipoles for FASER Experiment
THONET, Pierre Alexandre (CERN); DUNKEL, Olaf (CERN); LIEBSCH, Melvin (TE-MSC-MM); PENTELLA, Mariano (Department of Applied Science and Technology, Polytechnic of Turin, Turin, Italy); PETRONE, Carlo (CERN)

WED-PO2-116-05: Development of Radiation-Resistant Warm Magnets using Cyanate Ester Resin
TAKAHASHI, Hitoshi (Institute of Particle and Nuclear Studies, High Energy Accelerator Research Organization); TANAKA, Kazuhiro (Institute of Particle and Nuclear Studies, High Energy Accelerator Research Organization); HIROSE, Erina (Institute of Particle and Nuclear Studies, High Energy Accelerator Research Organization); KOMATSU, Yusuke (Institute of Particle and Nuclear Studies, High Energy Accelerator Research Organization); MUTO, Fumimasa (Institute of Particle and Nuclear Studies, High Energy Accelerator Research Organization); SAITO, Masayoshi (Department of Physics, Tohoku University)

WED-PO2-116-06: Presentation withdrawn

WED-PO2-116-07: The optimal design and measurement of dipole magnets for the gas-filled recoil separator SHANS2
HU, Qiang (Institute of Modern Physics of Chinese Academy of Science); YANG, Jing (Institute of Modern Physics Chinese Acdemy of Sciences); YAO, Qinggao (Institute of Modern Physics, Chinese Academy Sciences)

WED-PO2-116-08: The Pole Profile Optimization of High-gradient Quadrupole for the HALF Storage Ring
CHEN, Yuan (University of Science and Technology of China); HONGLIANG, Xu

On-line 7:00 - 8:00, On-site 10:30 - 12:30, On-line 21:00 - 22:00

2F Multipurpose Hall

WED-PO2-204 Fusion IV: HTS conductors and coils

Session Moderator: Kazuma Fukui, QST

WED-PO2-204-01: Conceptual Design and AC Loss Analysis of an HTS Central Solenoid Winding Pack for the EU-DEMO Fusion Reactor
LI, Xiaodong (Chair of Nuclear Technology, Department of Mechanical Engineering, Technical University of Munich); DONGBIN, Song (School of Astronautics, Beihang University); YANG, Wenjiang (School of Astronautics, Beihang University); MACIÁN-JUAN, Rafael (Chair of Nuclear Technology, Department of Mechanical Engineering, Technical University of Munich)

WED-PO2-204-02: Conductor design for toroidal field coils of a high magnetic field tokamak TRT.
LELEKHOV, Sergey (ITER Design Center); SYTNIKOV, Victor (R&D Center @ Federal Grid Company)

WED-PO2-204-03: Design and manufacturing of a KIT sample for a Quench Experiment on HTS Cable in Conduit Conductors
NICKEL, Daniel (Karlsruhe Institute of Technology (KIT)); WOLF, Michael (Karlsruhe Institute of Technology (KIT)); WEISS, Klaus-Peter (KIT, Institute for Technical Physics); VOGEL, Thomas (Karlruhe Institute of Technology (KIT)); KIENZLER, Andreas (Karlsruhe Institute of Technology); BAGRETS, Nadezda (KIT); HELLER, Reinhard (Karlsruhe Institute of Technology); FIETZ, Walter (KIT)

WED-PO2-204-04: Presentation withdrawn

WED-PO2-204-05: Development of low-resistance CORC®-CICC joints for use in demountable magnets for fusion and their performance up to 10 kA within a background magnetic field of up to 8 T
WEISS, Jeremy (Advanced Conductor Technologies and University of Colorado, Boulder); VAN DER LAAN, Danko (Advanced Conductor Technologies); ALLEN, Steven (UKAEA); HOLT, Julian (UKAEA); ALSWORTH, Ian (UKAEA); SCHOOFS, Frank (UKAEA); TEYBER, Reed (Lawrence Berkeley National Laboratory); MARCHEVSKY, Maxim

WED-PO2-204-06: High Performance HTS Conductors for Compact Fusion Tokamak Facility
ZHAI, Yuhu (Princeton Plasma Physics Laboratory); VAN DER LAAN, Danko (Advanced Conductor Technologies); WEISS, Jeremy (Advanced Conductor Technologies and University of Colorado, Boulder)

WED-PO2-204-07: Presentation withdrawn

WED-PO2-204-08: Novel HTS magnet design for nuclear fusion
LI, Quan (University of Edinburgh)

WED-PO2-204-09: Numerical Modelling of AC loss in large HTS Coils
VAN NUGTEREN, Jeroen (LittleBeast Engineering); BATEMAN, Rod (Tokamak Energy Ltd); BRISTOW, Matthew (Tokamak Energy Ltd); BRITTLES, Greg (Tokamak Energy); KRUIP, Marcel (Tokamak Energy); VAN NUGTEREN, Bas (Tokamak Energy Ltd); SLADE, Robert (Tokamak Energy Ltd)

WED-PO2-204-10: Preliminary Design Study on HTS Toroidal Field Coils Using Non-Twisted Conductors and Cables
KIM, Young-Gyun (Korea Institute of Fusion Energy); KIM, Hyun Wook (Korea Institute of Fusion Energy); OH, Sangjun (Korea Institute of Fusion Energy)

WED-PO2-204-11: Presentation withdrawn

WED-PO2-204-12: The Study on Excitation Loss of NI Coil for TF Magnets
WANG, Xueliang (Shanghai Jiao Tong University); SHENG, Jie (Shanghai Jiao Tong University); JIN, Zhijian (Shanghai Jiao Tong University Dept. of Physics)

On-line 7:00 - 8:00, On-site 10:30 - 12:30, On-line 21:00 - 22:00

2F Multipurpose Hall

WED-PO2-306 Resistive and Pulsed High-Field Magnets

Session Moderator: Kohki Takahashi, Tohoku University

WED-PO2-306-01: Design of an Active Power Compensator for 60T Flat-top High Magnetic Field System
LI, Dake (Huazhong University of Science and Technology); DING, Hongfa (Huazhong University of Science and Technology); HUANG, Yongheng (Huazhong University of Science and Technology); LV, Yiliang (Huazhong University of Science and Technology); ZHOU, Weihang (Huazhong University of Science and Technology); ZHANG, Song (Huazhong University of Science and Technology); PAN, Daiyuan (Huazhong University of Science and Technology)

WED-PO2-306-02: Design of a new type of power supply similar to flat-top pulsed high magnetic fields
WANG, Can (High Magnetic Field Laboratory, Chinese Academy of Sciences); SONG, Minhui (High Magnetic Field Laboratory, Chinese Academy of Sciences); FEI, Wei (High Magnetic Field Laboratory, Chinese Academy of Sciences); LIU, Xiaoning (High Magnetic Field Laboratory, Chinese Academy of Sciences); XU, Yanhong (High Magnetic Field Laboratory, Chinese Academy of Sciences)

WED-PO2-306-03: Design of Pulsed Magnet for Adjusting the Residual Stress Field in Large-size Aluminum Alloy Rings
TANG, Yinghao (Huazhong University of Science and Technology); LI, Xiaoxiang (Huazhong University of Science and Technology); ZHANG, Yi (Huazhong University of Science and Technology); LIU, Haixiang (Huazhong University of Science and Technology); LI, Liang (Huazhong University of Science and Technology)

WED-PO2-306-04: Energy efficiency of resistive high field magnets – the role of magnet technology and power supply operation
DEBRAY, Francois (Univ. Grenoble Alpes, INSA Toulouse, Univ. Toulouse Paul Sabatier, EMFL, CNRS, LNCMI, France); KRAMER, Steffen (Univ. Grenoble Alpes, INSA Toulouse, Univ. Toulouse Paul Sabatier, EMFL, CNRS, LNCMI, France); GRANDCLÉMENT, Cédric (Univ. Grenoble Alpes, INSA Toulouse, Univ. Toulouse Paul Sabatier, EMFL, CNRS, LNCMI, France); PAILLOT, Kevin (Univ. Grenoble Alpes, INSA Toulouse, Univ. Toulouse Paul Sabatier, EMFL, CNRS, LNCMI, France); TROPHIME, Christophe (Univ. Grenoble Alpes, INSA Toulouse, Univ. Toulouse Paul Sabatier, EMFL, CNRS, LNCMI, France); VINCENT, Benjamin (Univ. Grenoble Alpes, INSA Toulouse, Univ. Toulouse Paul Sabatier, EMFL, CNRS, LNCMI, France)

WED-PO2-306-05: Long Time Thermal Stability and Radiation Resistance of Nanostructured Microcomposite Wires Based on Cu-Nb Alloy
PANTSYRNY, Viktor (Nanoelectro LLC); KHLEBOVA, Natalia (Nanoelectro LLC); SERGEEV, Vladimir (Nanoelectro LLC); POLIKARPOVA, Maria (Bochvar Institute (VNIINM)); LUKYANOV, Pavel (Bochvar Institute (VNIINM)); GURYEV, Valentin (NRC Kurchatov institute)

WED-PO2-306-06: Microanalysis of Glidcop® conductor, an alumina particle dispersion strengthened copper, for ultrahigh field pulsed magnet applications
XIN, Yan (NHMFL); LU, Jun; GODDARD, Robert (NHMFL); TOPLOSKY, Vince (Florida State University); NIU, Rongmei (National High Magnetic Field Lab.); HAN, Ke (Florida State University)

WED-PO2-306-07: Numerical simulation and experimental study on the composite process of electromagnetic and electro-hydraulic tube forming
ZHANG, Yi (Huazhong University of Science and Technology); LI, Xiaoxiang (Huazhong University of Science and Technology); TANG, Yinghao (Huazhong University of Science and Technology); LIU, Haixiang (Huazhong University of Science and Technology); CAO, Quanliang (Huazhong University of Science and Technology); LI, liang (Huazhong University of Science and Technology)

WED-PO2-306-08: Presentation withdrawn

WED-PO2-306-09: Relaxation of residual stress in the aluminum alloy ring by electromagnetic bulging method
LI, Xiaoxiang (Wuhan National High Magnetic Field Center, Huazhong University of Science and Technology); TANG, Yinghao (Wuhan National High Magnetic Field Center, Huazhong University of Science and Technology); ZHANG, Yi (Wuhan National High Magnetic Field Center, Huazhong University of Science and Technology); LIU, Haixiang (Wuhan National High Magnetic Field Center, Huazhong University of Science and Technology); LI, Liang (Wuhan National High Magnetic Field Center, Huazhong University of Science and Technology)

WED-PO2-306-10: Stress analysis of pulse coils in linear induction drive structure
CONG, Yuantao (Institute of Electrical Engineering, Chinese Academy of Sciences and University of Chinese Academy of Sciences); CHENG, Junsheng (Institute of Electrical Engineering, Chinese Academy of Sciences and Ganjiang Innovation Academy, Chinese Academy of Sciences); XIONG, Ling (Institute of Electrical Engineering, Chinese Academy of Sciences); WANG, Qiuliang (Institute of Electrical Engineering, Chinese Academy of Sciences, University of Chinese Academy of Sciences and

University of Chinese Academy of Sciences)

WED-PO2-306-11: The research on the thermal deformation of Cu-Nb composites
WANG, pengfei (Northwest Institute for Nonferrous Metal Research); LIANG, Ming (Northwest Institute for Nonferrous Metal Research); FENG, Jianqing (Northwest Institute for Nonferrous Metal Research); LI, Chengshan (Northwest Institute for Nonferrous Metal Research); ZHANG, Pingxiang (Northwest Institute for Nonferrous Metal Research)

WED-PO2-306-12: Toward energy-efficient multi-step electromagnetic forming process by using a curved-geometry field shaper: Principle, Prototype Design, and Experiments
ZHANG, Zixuan (Wuhan National High Magnetic Field Center, Huazhong University of Science and Technology); LAI, Zhipeng (Wuhan National High Magnetic Field Center, Huazhong University of Science and Technology); LI, Changxing (Wuhan National High Magnetic Field Center, Huazhong University of Science and Technology); ZHENG, Yu (Wuhan National High Magnetic Field Center, Huazhong University of Science and Technology); XU, Wei (Wuhan National High Magnetic Field Center, Huazhong University of Science and Technology); LI, Meng (Wuhan National High Magnetic Field Center, Huazhong University of Science and Technology); WANG, Ziye (Wuhan National High Magnetic Field Center, Huazhong University of Science and Technology); GAO, Yuhang (Wuhan National High Magnetic Field Center, Huazhong University of Science and Technology); CAO, Quanliang (Wuhan National High Magnetic Field Center, Huazhong University of Science and Technology); HAN, Xiaotao (Wuhan National High Magnetic Field Center, Huazhong University of Science and Technology); LI, Liang (Wuhan National High Magnetic Field Center, Huazhong University of Science and Technology)

WED-PO2-306-13: Toward flexible coil design for electromagnetic forming of both sheet and tubular metal by combining of coil and field shaper: Principle, Optimization, and Experimental validation
LI, Meng (Wuhan National High Magnetic Field Center, Huazhong University of Science and Technology); LAI, Zhipeng (Wuhan National High Magnetic Field Center, Huazhong University of Science and Technology); LI, Changxing (Wuhan National High Magnetic Field Center, Huazhong University of Science and Technology); XU, Wei (Wuhan National High Magnetic Field Center, Huazhong University of Science and Technology); ZHANG, Zixuan (Wuhan National High Magnetic Field Center, Huazhong University of Science and Technology); ZHENG, Yu (Wuhan National High Magnetic Field Center, Huazhong University of Science and Technology); WANG, Ziye (Wuhan National High Magnetic Field Center, Huazhong University of Science and Technology); GAO, Yuhang (Wuhan National High Magnetic Field Center, Huazhong University of Science and Technology); CAO, Quanliang (Wuhan National High Magnetic Field Center, Huazhong University of Science and Technology); HAN, Xiaotao (Wuhan National High Magnetic Field Center, Huazhong University of Science and Technology); LI, Liang (Wuhan National High Magnetic Field Center, Huazhong University of Science and Technology)

On-line 7:00 - 8:00, On-site 10:30 - 12:30, On-line 21:00 - 22:00

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WED-PO2-403 Magnets for Medical App II

Session Moderator: Tetsuhiro Obana, NIFS

WED-PO2-403-01: AC loss simulation in HTS coil windings coupled with an iron core
WU, Yue (Beijing Jiaotong University); JIANG, Zhenan (Victoria University of Wellington); FANG, Jin (Beijing Jiaotong University); BADCOCK, Rodney A. (Victoria University of Wellington); LONG, Nicholas J. (Victoria University of Wellington); NAOYUKI, Amemiya (Kyoto University)

WED-PO2-403-02: Design of a 14T cryogen-free physical property measurement system magnet
WANG, Yaohui (Institute of Electrical Engineering, Chinese Academy of Sciences); WANG, Qiuliang (Institute of Electrical Engineering, Chinese Academy of Sciences); LIU, Hui (Institute of Electrical Engineering, Chinese Academy of Sciences); CHEN, Shunzhong (Institute of Electrical Engineering, Chinese Academy of Sciences); CHENG, Junsheng (Institute of Electrical Engineering, Chinese Academy of Sciences)

WED-PO2-403-03: Numerical Evaluation on Mechanical Behavior of No-insulation REBCO Pancake Coils in Skeleton Cyclotron
MIYAKE, Yuta (Okayama University); NAKAI, Yuki (Okayama University); INOUE, Ryota (Okayama University); KIM, SeokBeom (Okayama University); UEDA, Hiroshi (Okayama University); NOGUCHI, So (Hokkaido University); WATANABE, Tomonori (Chubu.Electric.Power Co., Inc.); NAGAYA, Shigeo (Chubu Electric Power CO., Inc); FUKUDA, Mitsuhiro; ISHIYAMA, Atsushi (Waseda University)

WED-PO2-403-04: Numerical Evaluation on Quench Behavior of REBCO Coil System of Skeleton Cyclotron for Cancer Therapy
NAKAI, Yuki (Okayama University); MIYAKE, Yuta (Okayama University); INOUE, Ryota (Okayama University); KIM, SeokBeom (Okayama University); UEDA, Hiroshi (Okayama University); NOGUCHI, So (Hokkaido University); WATANABE, Tomonori (Chubu.Electric.Power Co., Inc.); NAGAYA, Shigeo (Chubu Electric Power CO., Inc); FUKUDA, Mitsuhiro (Osaka University); ISHIYAMA, Atsushi (Waseda University)

WED-PO2-403-05: Optimal Design for Permanent Magnet Distribution of the Tip of Flexible Endoscope Driven by Magnetic Navigation
SUN, Hongbo (Institute of Electrical Engineering, Chinese Academy of Sciences and University of Chinese Academy of Sciences); LIU, Jianhua (Institute of Electrical Engineering, Chinese Academy of Sciences and University of Chinese Academy of Sciences); WANG, Qiuliang (Institute of Electrical Engineering, Chinese Academy of Sciences and University of Chinese Academy of Sciences)

WED-PO2-403-06: Semiellipse Coil Pair with Eccentric Windings for Improved Intracranial Induced Electrical Field in Transcranial Magnetic Stimulation
SHAO, Jiannan (Wuhan National High Magnetic Field Center, Huazhong University of Science and Technology); DING, Hongfa (Wuhan National High Magnetic Field Center, Huazhong University of Science and Technology); HE, Zhou (Wuhan National High Magnetic Field Center, Huazhong University of Science and Technology)

WED-PO2-403-07: Simulation of the Magnetic Particle Trajectory in a Vein for MDDS Application
HUANG, Jyun-Rong (National Cheng Kung University); YANG, Chiaming (National Cheng Kung

University); CHANG, Wei-Hsuan (National Cheng Kung University); CHEN, In-Gann (National Cheng Kung University)

WED-PO2-403-08: Thermal-electrical coupling quench study of HTS cyclotron for medical application
DING, Kaizhong (Institute of Plasma Physics, Chinese Academy of Sciences); DU, Shuangsong (ASIPP, China); FENG, Changle (ASIPP,China); ZHOU, Jian (ASIPP,China)

On-line 7:00 - 8:00, On-site 10:30 - 12:30, On-line 21:00 - 22:00

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WED-PO2-505 Special Purpose magnets II: Induction Heating, Magnetic

Session Moderator: Tsuyoshi Yagai, Sophia University

WED-PO2-505-01: A Very Compact 2 Tesla HTS Magnet for Advanced Electron Microscopy
SONG, Honghai (Stony Brook University); VILLAVICENCIO , Kevin (Stony Brook University); BROWNING, Ray (R. Browning Consultants)

WED-PO2-505-02: Conceptual design of the mobile cryomagnets for novel microwave technologies
VYSOTSKY, Vitaly (Russian Scientific R&D Cable Institute); ZUBKO, Vasily (Russian Scientific R&D Cable Institute); FETISOV, Sergey (Russian Scientific R&D Cable Institute); GLYAVIN, Mikhail (IAP RAS); PROYAVIN, Mikhail (IAP RAS)

WED-PO2-505-03: Development of Induction Heating Device Using HTS Magnet in Aluminum Extrusion Processing
ITO, Tetsuya (Teral Inc., Niigata University); FUKUI, Satoshi (Niigata University); KAWASHIMA, Hiroshi (TERAL Inc.); OGATA, Yasuhiro (TERAL Inc.); SHO, Takayuki (TERAL Inc.); FURUSE, Mitsuho (National Institute of Advanced Industrial Science and Technology); WATANABE, Tomonori (Chubu.Electric.Power Co., Inc.); NAGAYA, Shigeo (Chubu.Electric.Power Co., Inc.); OGAWA, Jun (Niigata University)

WED-PO2-505-04: Development of static magnetic refrigeration system using multiple high-temperature superconducting coils
HIRANO, Naoki (National Institute for Fusion Science); ONODERA, Yuta (National Institute for Fusion Science); MITO, Toshiyuki (National Institute for Fusion Science (NIFS)); KAWAGOE, Akifumi (Kagoshima University)

WED-PO2-505-05: Magnet design for electron-beam additive manufacturing
BAI, ye (GE Global Research Center); PRICE, J. Scott; SAFDAR, Ali; NECULAES, Bogdan; RAHMANE, Mohamed

WED-PO2-505-06: Recent Development Trends of a 1.2 MW Superconducting Induction Heater using MgB2 NI Magnets

CHOI, Jongho (Supercoil Co., Ltd.)

WED-PO2-505-07: The Calculation of Electromagnetic Force In Crystallizer About Using The High-temperature Superconducting Electromagnetic Stirring Device
WANG, Cong (Institute of Electrical Engineering, Chinese Academy of Sciences and Ganjiang Innovation Academy, Chinese Academy of Sciences); CHENG, Junsheng (Institute of Electrical Engineering, Chinese Academy of Sciences); QU, Hongyi (Institute of Electrical Engineering, Chinese Academy of Sciences and Ganjiang Innovation Academy, Chinese Academy of Sciences); ZHANG, Zili (Institute of Electrical Engineering, Chinese Academy of Sciences); LIU, Xin (Ganjiang Innovation Academy, Chinese Academy of Sciences and University of Science and Technology of China); XIE, Huang (Ganjiang Innovation Academy, Chinese Academy of Sciences); WANG, Qiuliang (Institute of Electrical Engineering, Chinese Academy of Sciences)

WED-PO2-505-08: The Calculation of The Heating Efficiency About Using The High-temperature Superconducting Induction Heating Device To Heat The Medium and Low-carbon Steel and Alloy Steel
WANG, Cong (Institute of Electrical Engineering, Chinese Academy of Sciences and Ganjiang Innovation Academy, Chinese Academy of Sciences); CHENG, Junsheng (Institute of Electrical Engineering, Chinese Academy of Sciences); QU, Hongyi (Institute of Electrical Engineering, Chinese Academy of Sciences and Ganjiang Innovation Academy, Chinese Academy of Sciences); ZHANG, Zili (Institute of Electrical Engineering, Chinese Academy of Sciences); LIU, Xin (Ganjiang Innovation Academy, Chinese Academy of Sciences and University of Science and Technology of China); XIE, Huang (Ganjiang Innovation Academy, Chinese Academy of Sciences); WANG, Qiuliang (Institute of Electrical Engineering, Chinese Academy of Sciences)

On-line 7:00 - 8:00, On-site 10:30 - 12:30, On-line 21:00 - 22:00

2F Multipurpose Hall

WED-PO2-507 Superconducting Rotating Machines, Linear Machines, and

Session Moderator: Tsuyoshi Yagai, Sophia University

WED-PO2-507-01: A Double-Stator Single-Rotor Field Modulated Motor with HTS Bulks
JING, Libing (China Three Gorges University); TANG, Weizhao (China Three Gorges University)

WED-PO2-507-02: A New Structure for the Coaxial Magnetic Gear with HTS Bulks
JING, Libing (China Three Gorges University); WANG, Tao (China Three Gorges University); PAN, Yonglin (China Three Gorges University)

WED-PO2-507-03: A Novel HTS Magnetic Field Modulation Type Magnetic Gear Hybrid Motor With Irregular Halbach Array
JING, Libing (China Three Gorges University); PAN, Yonglin (China Three Gorges University)

WED-PO2-507-04: Concept Design of a Novel Superconducting PTO Actuator for Wave Energy Extraction

GARCIA-TABARES, Luis (Centro de Investigaciones Energeti cas Medioambientales y Tecno); HERNANDO, Carlos (CYCLOMED TECHNOLOGIES); MUNILLA, Javier (CIEMAT); TORRES MIRANDA, Jorge (CIEMAT); SANTOS-HERRAN, Miguel (CIEMAT); BLANCO AGUADO, Marcos (CIEMAT); SANZ, Santiago (SUPRASYS); SARMIENTO, Gustavo (Suprasys); GARCIA LORENZO, Francisco (Wedge Global); NERI, Martina (ASG Superconductor s.p.a.); MAGRASSI, Daniele

WED-PO2-507-05: Design study of 2 MW-class Induction Motor using REBCO Superconducting Armature Windings for Electric Aircraft
OKADE, Yuta (Kyushu University); HASE, Yoshiji (Fuji Electric Co. Ltd.); HONDA, Hirokazu (Fuji Electric Co. Ltd.); IZUMI, Teruo (Advanced Industrial Science and Technology (AIST)); IWAKUMA, Masataka; KONNO, Masayuki (Fuji Electric Co. Ltd.); MIURA, Shun (Kyushu University); KAWAGOE, Akifumi (Kagoshima University); SASAMORI, Yuichiro (Fuji Electric Co. Ltd.); SASAYAMA, Teruyoshi (Kyushu University); SASA, Hiromasa; YOSHIDA, Koichi (Kyushu University); YOSHIDA, Takashi (Kyushu University); MIYAZAKI, Hiroshi (Kyushu University)

WED-PO2-507-06: Flywheel uninterruptible power supply using superconducting induction machine
KUKI, Shota (Sophia University); SONODA, Shogo (Sophia university); NAKAMURA, Kazuya (Sophia University); TAKAO, Tomoaki (Sophia University); TSUKAMOTO, Osami (Yokohama National university)

WED-PO2-507-07: Influence of the Stator Substrate Magnetism on the Charging Performance of Dynamo-type HTS Flux Pump
SUN, Chenzhen (Southwest Jiaotong University); LI, Jing (Southwest Jiaotong University); ZHOU, Pengbo (Southwest Jiaotong University); MA, Guangtong (Southwest Jiaotong University)

WED-PO2-507-08: Investigation of AC Loss Characteristics of REBCO Armature Developed for 50 kW-class HTS Induction/Synchronous Motor
FUKUI, Satoshi (Niigata University); OGAWA, Jun (Niigata University); TOMII, Keita (Niigata University); SAITO, Ryo (Niigata University); TAKAHASHI, Kyosuke (Niigata University); KIKUTOJI, Konomi (Niigata University); FURUSE, Mitsuho (National Institute of Advanced Industrial Science and Technology); NAKAMURA, Taketsune (Kyoto University)

WED-PO2-507-09: Numerical Modeling and Optimization of an Axial-type Synchronous Motors with Bulk HTS
XU, Yuanyuan (Guangdong Ocean University); AN, Lian-tong (Guangdong Ocean University); JIA, Bao-zhu (Guangdong Ocean University); IZUMI, Mitsuru (TOKYO UNIVERSITY OF MARINE SCIENCE AND TECHNOLOGY (TUMSAT))

WED-PO2-507-10: Parametric study on starting method with fast torque response in high-temperature superconducting induction/synchronous motor
MATSUKI, Kenjiro (Kyoto University); NAKAMURA, Taketsune (Kyoto University)

WED-PO2-507-11: [Invited] Robust and low-loss high temperature superconducting armature winding technology to realize a practical fully superconducting rotating machine: from the viewpoint of self-organizing design method and FFDS conductor technique
NAKAMURA, Taketsune (Kyoto University); KISS, Takanobu (Kyushu University); MATSUKI, Kenjiro

(Kyoto University); GOTOU, Yoshitaka (Kyoto University)

WED-PO2-507-13: Presentation withdrawn

WED-PO2-507-14: Study on the structure design for high performance non-contact rotating machine using HTS bulks
HIRATA, Tomo (Okayama University); INOUE, Ryota (Okayama University); UEDA, Hiroshi (Okayama University); KIM, SEOKBEOM (Okayama University)

WED-PO2-507-15: The Potential for the Use of Low AC Losses Hyperconducting Aluminum in Cryogenic Motors
KWON, Jin (The Ohio State University); SUMPTION, Mike (The Ohio State University); HAUGAN, Timothy (U.S. Air Force Research Laboratory)

WED-PO2-507-16: The Test Results of a YBCO Racetrack Coil at 30K Incorporate a Novel Cryostat Suitable for a Linear-Motor Type Flux Pump Used on an Synchronous Motor
LI, Hong (Sichuan University); WANG, Wei (Sichuan University); YANG, Chao (Sichuan University); XU, Hang (Sichuan University)

On-line 7:00 - 8:00, On-site 10:30 - 12:30, On-line 21:00 - 22:00

2F Multipurpose Hall

WED-PO2-510 Maglev and Levitation II

Session Moderator: Tsuyoshi Yagai, Sophia University

WED-PO2-510-01: AC losses of high temperature superconducting magnet under the external magnetic fields generated by the ground coils of electrodynamic suspension train
GONG, Tianyong (Southwest Jiaotong University); MA, Guangtong (Southwest Jiaotong University); WANG, Ruichen (Applied Superconductivity Laboratory, State Key Laboratory of Traction Power, Southwest Jiaotong University)

WED-PO2-510-02: Design, fabrication and testing of a coated superconductor magnet for electrodynamic suspension
MA, Guangtong (Southwest Jiaotong University); GONG, Tianyong (Southwest Jiaotong University); WANG, Ruichen (Applied Superconductivity Laboratory, State Key Laboratory of Traction Power, Southwest Jiaotong University); LI, Songlin (Southwest Jiaotong University); NIE, Xingchao (Applied Superconductivity Laboratory, State Key Laboratory of Traction Power, Southwest Jiaotong University); JIANG, jiufu (Applied Superconductivity Laboratory, State Key Laboratory of Traction Power, Southwest Jiaotong University)

WED-PO2-510-03: Dynamic Response of HTS Pinning Maglev System Under High Frequency Excitation
WANG, Li (Southwest Jiaotong University); DENG, Zigang; ZHOU, Xucheng (Southwest Jiaotong

University); KE, Zhihao (Southwest Jiaotong University)

WED-PO2-510-04: High Temperature Superconducting Non-insulation Closed-loop Coils for Electro-dynamic Suspension System
LU, LI (Shanghai Jiao Tong University)

WED-PO2-510-05: Influence of Traction Rod on the Dynamic Performance of High-temperature Superconducting Maglev Vehicle
LIU, Jianhui (SouthWest JiaoTong University); DENG, Zigang (State Key Laboratory of Traction Power); YANG, Caijin (State Key Laboratory of Traction Power); YUAN, Yuhang (State Key Laboratory of Traction Power)

WED-PO2-510-06: Larger Levitation Force Design of Magnetic Levitation Rail based on Topology Optimization of Halbach Array
ZHANG, Hang (Suzhou Inn-Mag New Energy Ltd); PEI, ruilin

WED-PO2-510-07: Levitation characteristics of high-temperature superconducting bulks under different orientations and arrays
CHENG, Yanxing (Southwest Jiaotong University); ZHENG, Jun (Southwest Jiaotong University); HUANG, Huan (Southwest Jiaotong University); BAO, Yeying (Southwest Jiaotong University); CHEN, Nan (Southwest Jiaotong University); DENG, Zigang

WED-PO2-510-08: Multi-Mode Vibration Suppression of High-Temperature Superconducting Maglev System Via Negative Resistance Electromagnetic Shunt Damper
ZHANG, Penghui (SouthWest JiaoTong University); DENG, Zigang; WANG, Li; KE, Zhihao; FU, Yao; WU, Xuejie

WED-PO2-510-09: Multi-objective Optimization Design for Null-flux Superconducting Electrodynamic Suspension Using NSGA-II and Response Surface Method
CUI, Libin (Southwest Jiaotong University); WANG, Yiyu (Southwest Jiaotong University); SU, Zhenhua (Southwest Jiaotong University); GONG, Tianyong (Southwest Jiaotong University); LUO, Jun (Southwest Jiaotong University); MA, Guangtong (Southwest Jiaotong University)

WED-PO2-510-10: Off-Power Operation of prototype on-board HTS Magnets for EDS-type Maglev Trains
WU, Wei (Shanghai Jiao Tong University); KAI, Li (CRRC Changchun Railway Vehicles Co., Ltd); LI, Lu (Shanghai Jiao Tong University); XIN, Yu (Shanghai Superconductor Co., Ltd.); CHAO, Zhang (Shanghai Superconductor Co., Ltd.); ZHEN, Huang (Shanghai Jiao Tong University); XIAO-FEN, Li (Shanghai Jiao Tong University); JIE, Sheng (Shanghai Jiao Tong University); SIKAN, Chen (Shanghai Superconductor Co., Ltd.); JIAMIN, Zhu (Shanghai Superconductor Co., Ltd.); YUE, Zhao (Shanghai Jiao Tong University); ZHUOYAN, Zhong (Shanghai Jiao Tong University); YUSONG, Gao (Shanghai Jiao Tong University); NAN, Shao (CRRC Changchun Railway Vehicles Co., Ltd); QINGSONG, Yu (CRRC Changchun Railway Vehicles Co., Ltd); SHIKUAN, Liang (CRRC Changchun Railway Vehicles Co., Ltd); ZHIYONG, Hong (Shanghai Jiao Tong University); ZHIJIAN, Jin (Shanghai Jiao Tong University)

WED-PO2-510-11: Vertical Dynamic Response of Vehicle-bridge Coupled Systems in Superconducting Electrodynamic Suspension Train

FENG, Piji (Southwest Jiaotong University); ZENG, Jingsong (Southwest Jiaotong University); YAN, Zhaoying (Southwest Jiaotong University); ZHANG, Weihai (Southwest Jiaotong University); MA, Guangtong (Southwest Jiaotong University)

On-line 7:00 - 8:00, On-site 10:30 - 12:30, On-line 21:00 - 22:00

2F Multipurpose Hall

WED-PO2-604 Low Tc Wires and Cables

Session Moderator: Akihiro Kikuchi, NIMS

WED-PO2-604-01: Cable R&D Program for 14T MRI
ZHANG, Yongliang (Institute of Plasma Physics); DAI, Chao (Institute of Plasma Physics); WU, Yu (Institute of Plasma Physics); MA, Hongjun (Institute of Plasma Physics); ZHANG, Changneng (Institute of Plasma Physics); XU, Aihua (Changzhou Vocational Institute of Mechatronic Technology); SHI, Yi (Institute of Plasma Physics); WU, Kaihong (Institute of Plasma Physics)

WED-PO2-604-02: Effect of the sub-elements layout on the electro-mechanical properties of high Jc Nb3Sn wires under transverse load
BAFFARI, Dario (CERN); BORDINI, Bernardo (CERN); CATTABIANI, Alessandro

WED-PO2-604-03: Effect of transverse compressive stress on Nb3Sn Rutherford cables for accelerator magnets
LENOIR, Gilles (CERN); BARTH, Christian (CERN); WOLF, Felix Josef (CERN); FLEITER, Jerome (CERN); MALABAILA, Marina (CERN); BALLARINO, Amalia (CERN)

WED-PO2-604-04: Improving the performance of Nb3Al superconducting wires through tension-free RHQ Processing
ZHAO, Yong (Fujian Normal University); YUE, Tianhao (SWJTU); YANG, Xinsheng (Southwest Jiaotong University); YU, Zhou (Southwest Jiaotong University); CHEN, Yongliang (Southwest Jiaotong University); CHENG, Cuihua (Chengdu University); ZHANG, Yong (Southwest Jiaotong University)

WED-PO2-604-05: Influence of reversible vortices motion on low-field features of magnetization in type-II superconductors with strong anisotropic pinning
GURYEV, Valentin (NRC Kurchatov institute); CHUMAKOV, Nikolay (NRC Kurchatov institute); SHAVKIN, Sergey (NRC Kurchatov institute); KRUGLOV, Vitaliy (NRC Kurchatov institute); OVCHAROV , Alex (NRC Kurchatov institute)

WED-PO2-604-06: Influence of Ti doping on the Nb3Sn layer formation for various Nb3Sn wire structure
MORITA, Taro; YAGAI, TSUYOSHI (Sophia University); BANNO, Nobuya (National Institute for Materials Science); NIMORI, Shigeki (National Institute for Materials Science)

WED-PO2-604-07: Influence of Zn addition in Cu matrix on the mechanical and superconducting properties of Nb_3Sn conductor

DHAKARWAL, Mukesh (High Energy Accelerator Research Organization/KEK) ; SUGANO, Michinaka (High Energy Accelerator Research Organization); OGITSU, Toru (High Energy Accelerator Research Organization); KAWASHIMA, Shinya (KOBE STEEL, LTD.); NISHIJIMA, Gen (National Institute for Materials Science); BANNO, Nobuya (National Institute for Materials Science)

WED-PO2-604-08: Jc performance under the transverse compressive stress on the bronze matrix reinforced Nb3Sn multifilamentary wires

HISHINUMA, Yoshimitsu (National Institute for Fusion Science); OGURO, Hidetoshi (Tokai University); TANIGUCHI, Hiroyasu (Osaka Alloying Works Co.,Ltd); AWAJI, Satoshi (Tohoku University); KIKUCHI, Akihiro (National Institute for Materials Science)

WED-PO2-604-09: Magnetic and Electromechanical Characterization of a High-Jc RRP wire for the MQXF Cable

DE MARZI, Gianluca (INFN e Laboratori Nazionali di Frascati (IT)); BORDINI, Bernardo (CERN); MUZZI, Luigi (ENEA, 00044 Frascati, Italy); AFFINITO, Luigi (ENEA); ANGRISANI ARMENIO, Achille (ENEA); FORMICHETTI, Andrea (ICAS S.r.l.); FREDA, Rosa (ENEA); MERLI, Lucio (ICAS s.r.l.); RUFOLONI, Alessandro (ENEA); DELLA CORTE, Antonio (Enea)

WED-PO2-604-10: Mechanical properties and strain effect of various Nb3Al superconducting wires

WAKUTANI, Yutaro (Tokai university); OGURO, HIdetoshi (Tokai University); NORO, Shota (Tokai university); KIKUCHI, Akihiro (National Institute for Materials Science); AWAJI, Satoshi (Tohoku University)

WED-PO2-604-11: Microstructure and superconducting properties of Hf,Ta-added bronze-route Nb3Sn wire

BANNO, Nobuya (National Institute for Materials Science); MORITA, Taro (Sophia University); YAGAI, TSUYOSHI (Sophia University); NIMORI, Shigeki (National Institute for Materials Science)

WED-PO2-604-12: Procedural solutions for determining the temperature dependence of transport critical current in Nb3Sn superconducting wires using magnetization measurements

PONG, Ian (LBNL); EKIN, Jack (LBNL)

WED-PO2-604-13: Study on the Optimum Microstructure of High Jc Nb3Sn Wire after medium heat treatment

GUO, Qiang (WST); WU, Bo (Western Superconducting Technologies Co., Ltd); SHI, Yigong (Western Superconducting Technoliges); LI, Jianfeng (Western Superconducting Technologies Co., Ltd.); LIU, Xianghong (Western Superconducting Technologies Co., Ltd.); ZHANG, Pingxiang (NIN); FENG, Yong (WST); CHEN, Jianya (WST)

WED-PO2-604-14: The Nb3Sn superconductor procured for the High Luminosity Upgrade of the Large Hadron Collider

BORDINI, Bernardo (CERN); BALLARINO, Amalia (CERN); BOTTURA, Luca (CERN); DEVRED, Arnaud (CERN)

WED-PO2-604-15: Unique and Novel High Tin Bronze and Nb3Sn Multifilamentary Wires
TANIGUCHI, Hiroyasu (Osaka Alloying Works, Co., Ltd.); KIKUCHI, Akihiro (National Institute for Materials Science)

On-line 7:00 - 8:00, On-site 10:30 - 12:30, On-line 21:00 - 22:00

2F Multipurpose Hall

WED-PO2-607 Coated Conductor Processing and Flux Pinning

Session Moderator: Akihiro Kikuchi, NIMS

WED-PO2-607-02: Effect of 2 and 10 MeV Au-ion irradiation on superconducting properties in GdBa2Cu3Oy coated conductors
OZAKI, Toshinori (Kwansei Gakuin University); KASHIHARA, Takuya (Kwansei Gakuin University); OKADA, Tatsunori (Tohoku University); AWAJI, Satoshi (Tohoku University); KAKEYA, Itsuhiro (Kyoto University); SEMBOSHI, Satoshi (Tohoku University); OKAZAKI, Hiroyuki (Takasaki Advanced Radiation Research Institute, National Institutes for Quantum and Radiological Science and Technology); KOSHIKAWA, Hiroshi (Takasaki Advanced Radiation Research Institute, National Institutes for Quantum and Radiological Science and Technology); YAMAMOTO, Shunya (Takasaki Advanced Radiation Research Institute, National Institutes for Quantum and Radiological Science and Technology); YAMAKI, Tetsuya (Takasaki Advanced Radiation Research Institute, National Institutes for Quantum and Radiological Science and Technology); SUEYOSHI, Tetsuro (Kyushu Sangyo University); SAKANE, Hitoshi (SHI-ATEX Co., Ltd.)

WED-PO2-607-03: Features of the formation of pinning centers in HTS tapes under the laser irradiation action
IRINA, Anishcenko (NRNU MEPHI); POKROVSKII, Sergei (National Research Nuclear University MEPhI); ABIN, Dmitry (National Research Nuclear University MEPhI (Moscow Engineering Physics Institute)); OSIPOV, Maxim (NRNU MEPhI); RUDNEV, Igor (National Research Nuclear University MEPhI (Moscow Engineering Physics Institute))

WED-PO2-607-05: Investigation of the formation mechanism of a-axis oriented grains in GdBa2Cu3Oy coated conductors deposited by pulsed laser deposition
RYO, Teranishi (Kyushu Univ.); MASAYOSHI, Inoue (Fukuoka Institute of technology); TENTA, Inoue (Kyushu Univ.); KENJI, Kaneko (Kyushu Univ.); TATSUHIKO, Kikuyama (Kyushu Univ.); TAKESHI, Nishiyama (Kyushu Univ.)

WED-PO2-607-06: Magnetic flux trapping and creep in 2G HTS wires containing normal-phase fractal clusters
KUZMIN, Yuri (Ioffe Physical Technical Institute of the RAS)

WED-PO2-607-07: Modification of critical current density properties in high-Tc superconductors by tuning columnar defect morphologies in different directions
SUEYOSHI, Tetsuro (Kyushu Sangyo University); OZAKI, Toshinori; SEMBOSHI, Satoshi (Tohoku University); SAKANE, Hitoshi (SHI-ATEX Co., Ltd.); NISHIZAKI, Terukazu (Kyushu Sangyo University);

ISHIKAWA, Norito (Japan Atomic Energy Agency)

WED-PO2-607-08: Superconducting properties of Ce and La co-doped RE123 thin films fabricated by fluorine-free MOD method
HATANO, Taishi (Tokyo Metropolitan University); MIURA, Osuke (Tokyo Metropolitan university); KITA, Ryusuke (Shizuoka University)

WED-PO2-607-09: Superconducting properties of production 2G HTS wires based on YBCO with Y2O3 nanoparticles in magnetic field up to 16 T
DEGTYARENKO, Pavel (S-innovations LLC); PRUDKOGLYAD, Valery (P.N. Lebedev Physical Institute of the Russian Academy of Sciences); VLASENKO, Vladimir (P.N. Lebedev Physical Institute of the Russian Academy of Sciences); GAVRILKIN, Sergey (P.N. Lebedev Physical Institute of the Russian Academy of Sciences); OVCHAROV, Alexey (NRC "Kurchatov Institute"); VASILIEV, Alexander (NRC "Kurchatov institute"); MARKELOV, Anton (S-innovations LLC); MOLODYK, Alexander (S-innovations LLC); TZVETKOV, Alexey (P.N. Lebedev Physical Institute of the Russian Academy of Sciences)

On-line 7:00 - 8:00, On-site 10:30 - 12:30, On-line 21:00 - 22:00

2F Multipurpose Hall

WED-PO2-610 High Tc Wires and Cables IV

Session Moderator: Akihiro Kikuchi, NIM

WED-PO2-610-01: Behavior of Bi-2212 wires above liquid Helium temperature: critical current, irreversibility field and filaments coupling
ANGRISANI ARMENIO, Achille (ENEA); LEVERATTO, Alessandro (CNR-SPIN); DE MARZI, Gianluca (ENEA, 00044 Frascati, Italy); TRAVERSO, Andrea (Istituto Nazionale di Fisica Nucleare); CELENTANO, Giuseppe; MALAGOLI, andrea (CNR-SPIN)

WED-PO2-610-02: Critical Current Analysis of a Self-shielding DC HTS Cable with a "Sandwich" Structure
PI, Wei (North China Electric Power University); YANG, Yu (North China Electric Power University); ZHANG, Zhaoyu (North China Electric Power University); WANG, Ruiqi (North China Electric Power University); SUN, Ziyuan (NCEPU)

WED-PO2-610-03: Degradation Behavior due to Flatwise and Edgewise Bending of Critical Current of BSCCO Tapes
OSAMURA, Kozo (Research Institute for Applied Sciences); YAMADE, Satoru (Sumitomo Electric Industries Ltd.); KATO, Takeshi (Sumitomo Electric Industries Ltd.)

WED-PO2-610-04: Effect of Twisting Characteristics on Critical Current of Bi-2212 superconducting wire
YANG, Dongsheng (Hefei Institutes of Physical Science, Chinese Academy of Scienc); QIN, J,G (Hefei Institutes of Physical Science, Chinese Academy of Sciences); YU, min (Hefei Institutes of Physical Science, Chinese Academy of Sciences); ZHANG, shuqin (Hefei Institutes of Physical Science, Chinese

Academy of Sciences)

WED-PO2-610-05: Inter-wire contact force induced critical current degradation of Bi-2212/Ag round wires reacted with and with no pre-pressure
GAO, Peng (Institute of Plasma Chinese Academy of Sciences); YANG, Dongsheng (Institute of Plasma Physics Chinese Academy of Sciences); LIU, Haihong (Institute of Plasma Physics Chinese Academy of Sciences); ZHOU, Chao (Institute of Plasma Physics, Chinese Academy of Sciences); LIU, fang; LIU, Huajun (Chinese Academy of Sciences); LI, Jiangang (Institute of Plasma Physics Chinese Academy of Sciences); QIN, Jinggang

WED-PO2-610-06: Magnetization measurements of Bi-2212 Rutherford cable using a ± 3-T magnetometer
XUE, Shengchen (OSU); KOVACS, Chris (Air Force Research Laboratory); SUMPTION, Mike (The Ohio State University); MAJOROS, Milan (The Ohio State University); COLLINGS, Edward (The Ohio State University)

WED-PO2-610-07: Modeling of AC loss characteristics under electromagnetic conditions in High-temperature superconducting cable
OGAWA, Jun (Niigata University); FUKUI, Satoshi (Niigata University); MIHIRA, Yuta (Niigata University); IIDA, Ryota (Niigata University)

WED-PO2-610-08: Use of Critical Current Distribution Measurements in Bi-2212 Round Wires as a tool to significantly enhance and stabilize the J_c properties
BARUA, Shaon (ASC-FSU-NHMFL); DAVIS, Daniel (FSU/NHMFL); OZ, Yavuz (ASC, FSU, NHMFL); JIANG, Jianyi (Florida State University); KIM, Youngjae (National High Magnetic Field Laboratory); BOSQUE, Ernesto (National High Magnetic Field Laboratory); HELLSTROM, Eric (Florida); TROCIEWITZ, Ulf (NHMFL); LARBALESTIER, David (National High Magnetic Field Laboratory)

On-line 7:00 - 8:00, On-site 10:30 - 12:30, On-line 21:00 - 22:00

2F Multipurpose Hall

WED-PO2-613 Joints between Superconductors

Session Moderator: Kohki Takahashi, Tohoku University

WED-PO2-613-01: Air-gap Observation in Joints of REBCO Tapes by Use of X-ray Computed Tomography
INOUE, Masayoshi (Fukuoka Institute of Technology); OTA, Makito (Fukuoka Institute of Technology); TERANISHI, Ryo (Kyushu Univ.); KISS, Takanobu (Kyushu University)

WED-PO2-613-02: Application of direct diffusion bonding technique for preparation of low-resistivity joint in REBCO coated conductors
CHIKUMOTO, Noriko (Chubu University)

WED-PO2-613-03: Development of a demountable joint for NUCLOTRON type cable
NI, Dongsheng (Institute of Modern Physics Chinese Academy of Sciences); OU, Xianjin; WANG, xu dong (Institute of Modern Physics. Chinese Academy of Sciences); CHEN, Yuquan; YANG, Tongjun (Institute of Modern Physics, Chinese Academy of Sciences); WANG, Lishi (Institute of Modern Physics, Chinese Academy of Sciences); QIN, Xiangqi (Institute of Modern Physics, CAS); QIAO, Weiyu (Institute of Modern Physics, Chinese Academy of Sciences); ZHU, li; CHENG, yue (Institute of Modern Physics Chinese Academy of Sciences)

WED-PO2-613-04: Effect of precursor film thickness and heat-treatment temperature on superconducting joint
DOI, Yutaro (Kyushu university); TERANISHI, Ryo; MIYAJIMA, Tomohiro; SATO, Yukio; KANEKO, Kenji; PETRYKIN, Valery; LEE, Sergey; OKADA, Tatsunori; AWAJI, Satoshi; MATSUMOTO, Akiyoshi

WED-PO2-613-05: Electrical and Thermal Contact Resistance in ReBCO Stacks and Cables with Modified Surfaces
XUE, Shengchen (OSU); SUMPTION, Mike (The Ohio State University); MAJOROS, Milan (The Ohio State University); COLLINGS, Edward (The Ohio State University)

WED-PO2-613-06: Evaluation of magnetic field dependence of interface resistivity in REBCO tape with the contact-probing current transfer length method
ATAKE, Yosuke (Dept. Quantum Science and Energy Engineering. Graduate School of Engineering. Tohoku University); ITO, Satoshi (Dept. Quantum Science and Energy Engineering, Graduate School of Engineering, Tohoku University); TAKAHASHI, Kohki (Tohoku University); HASHIZUME, Hidetoshi (Dept. Quantum Science and Energy Engineering, Graduate School of Engineering, Tohoku University)

WED-PO2-613-08: Formation of Nb3sn after Different Mechanical Alloying Methods
SUN, Wanshuo (Institute of Electrical Engineering, Chinese Academy of Sciences); CHEN, Shunzhong (Institute of Electrical Engineering, Chinese Academy of Sciences); WANG, Lei (Institute of Electrical Engineering, Chinese Academy of Sciences); CHENG, Junsheng (Institute of Electrical Engineering, Chinese Academy of Sciences); WANG, Qiuliang (Institute of Electrical Engineering, Chinese Academy of Sciences)

WED-PO2-613-09: In-field evaluation of REBCO superconducting joint
KOBAYASHI, Kensuke (National Institute for Materials Science); OHKI, Kotaro (Sumitomo Electric Industries, Ltd.); NAGAISHI, Tatsuoki (Sumitomo Electric Industries, Ltd.); UCHIDA, Akira (National Institute for Materials Science); NISHIJIMA, Gen (National Institute for Materials Science); KITAGUCHI, Hitoshi (National Institute for Materials Science (NIMS))

WED-PO2-613-10: Joint resistance evaluation of longer HTS tape joints with indium insertion
ITO, Satoshi (Dept. Quantum Science and Energy Engineering, Graduate School of Engineering, Tohoku University); APARICIO, Luis (Dept. Quantum Science and Energy Engineering, Graduate School of Engineering, Tohoku University); ATAKE, Yosuke (Dept. Quantum Science and Energy Engineering, Graduate School of Engineering, Tohoku University); YUKI, Kohei (Dept. Quantum Science and Energy Engineering, Graduate School of Engineering, Tohoku University); HASHIZUME, Hidetoshi (Dept. Quantum Science and Energy Engineering, Graduate School of Engineering, Tohoku University)

WED-PO2-613-11: Low resistance soldered joint of REBCO coated conductors with novel Ag-dispersed structure
OHSUGI, Masaki (Fujikura Ltd.); YOSHIDA, Tomo (Fujikura Ltd.); IIJIMA, Yasuhiro (Fujikura Ltd.); KAKIMOTO, Kazuomi (Fujikura Ltd.); HIRATA, Wataru (Fujikura Ltd.); FUJITA, Shinji (Fujikura Ltd.); DAIBO, Masanori (Fujikura Ltd.); FURUSE, Mitsuho (AIST); YOSHIDA, Yoshiyuki (AIST)

WED-PO2-613-12: Simultaneous manufacturing of multiple junctions between Bi2223 tapes with rapid melt joining
KANAZAWA, Shintetsu (Muroran Institute of Technology); PIAO, Renzhong (RIKEN); SUETOMI, Yu (RIKEN); YANAGISAWA, Yoshinori (RIKEN)

WED-PO2-613-13: Status and Progress on First-of-a-Kind Feeder Busbar Joint Assembly at ITER Magnet System
KIM, HYUNGJUN (ITER Organization); GUNG, CHEN-YU (ITER Organization); PETIT, PATRICK (ITER Organization); REICH, JENS (ITER Organization)

WED-PO2-613-14: Superconducting Joint for "Reacted" MgB2 multifilament Wires for the Development of MRI Magnets
KWON, Dawool (Korea University); NOH, Hyun Sung (Korea University); RYU, Yunyeol (Korea University); KIM, Young Hoon (Korea University); MTANGI , Mohamed Mussa (Korea University); JANG, Se Hun (Kiswire Advanced Technology Co., Ltd.); KIM, Jiman (1 Korea University 2.Kiswire Advanced Technology Co., Ltd.); LEE, Haigun (Korea University)

WED-PO2-613-15: Ultra-low resistance joints between Bi2223 and NbTi wires using superconducting Bi-Pb solder
INOUE, Kazuo (National Institute for Materials Science); SHIBUYA, Masachika (National Institute for Materials Science); MATSUMOTO, Ryo (National Institute for Materials Science); KOBAYASHI, Kensuke (National Institute for Materials Science); UCHIDA, Akira (National Institute for Materials Science); NISHIJIMA, Gen (National Institute for Materials Science); TAKEYA, Hiroyuki (National Institute for Materials Science); KITAGUCHI, Hitoshi (National Institute for Materials Science); TAKANO, Yoshihiko (National Institute for Materials Science)

On-line 7:00 - 8:00, On-site 10:30 - 12:30, On-line 21:00 - 22:00

2F Multipurpose Hall

WED-PO2-616 Electrical Insulation for Magnets

Session Moderator: Kohki Takahashi, Tohoku University

WED-PO2-616-02: Current Bypass of a Metal Stitching Smart Insulation 2G HTS Coil
KIM, Hyung-Wook (Korea Electrotechnology Research Institute); JO, Young-Sik (Korea Electrotechnology Research Institute); KIM, Seog-Whan (Korea Electrotechnology Research Institute)

WED-PO2-616-03: Electrical Characteristics of a High-Temperature Superconducting Coil Insulated with Doped Smart Materials

MTANGI, Mohamed Mussa (Korea University); NOH, Hyun Sung (Korea University); KWON, Dawool (Korea University); KIM, Hyung-Wook (Korea Electrotechnology Research Institute); JO, Young-Sik (Korea Electrotechnology Research Institute); KIM, Seog-Whan (Korea Electrotechnology Research Institute, Changwon, 51543, Korea); KIM, Ji Hyung (Jeju National University); KIM, Ho Min (Jeju National University); LEE, Haigun (Korea University)

WED-PO2-616-04: Evaluation of Selection Criteria for the Level of Liquid Nitrogen in HTS Magnet System
BANG, Seungmin (Hanyang University); LEE, Hyunwoo (Hanyang University); KIM, Hoseung (Hanyang.ac.kr); LEE, Bang-Wook (Hanyang University)

WED-PO2-616-05: Fabrication and Characteristics of HTS Racetrack Pancake Coils after Impregnation Process Using Various Materials
SUN, Wanshuo (Institute of Electrical Engineering, Chinese Academy of Sciences and University of Chinese Academy of Sciences); WANG, Lei (Institute of Electrical Engineering, Chinese Academy of Sciences); CHEN, Shunzhong (Institute of Electrical Engineering, Chinese Academy of Sciences); CHENG, Junsheng (Institute of Electrical Engineering, Chinese Academy of Sciences); WANG, Qiuliang (Institute of Electrical Engineering, Chinese Academy of Sciences)

WED-PO2-616-06: Fundamental research for design of composite materials in vacuum environments
HIRAI, Masaaki (Fukui University of Technology); SHIGEHIRO, Nishijima (Fukui University of Technology); YOSHIHIKO, Toda (Arisawa Manufacturing Co.,Ltd.)

WED-PO2-616-07: Magnetic Field Reduction Phenomenon of a Metal Insulation and a No-insulation Coil by External Fluctuating Magnetic Field
KIM, Hyung-Wook (Korea Electrotechnology Research Institute); JO, Young-Sik (Korea Electrotechnology Research Institute); KIM, Seog-Whan (Korea Electrotechnology Research Institute)

WED-PO2-616-08: Mechanical characterisation of Nb3Sn cable insulation systems at ambient and cryogenic temperature used for HL-LHC accelerator magnets.
WOLF, Felix Josef (CERN); FOUSSAT, Arnaud Pascal (CERN); LACKNER, Friedrich (CERN); CROUVIZIER, Mickael Denis (CERN); CANFER, Simon (Science and Technology Facilities Council STFC (GB)); SGOBBA, Stefano (CERN); ROBERTSON, Steve (Science and Technology Facilities Council STFC (GB))

WED-PO2-616-09: Novel Insulation Designs for Nb₃Sn Rutherford Cables for Particle Accelerator Magnets
VALLONE, Giorgio (Lawrence Berkeley National Lab. (US)); ANDERSSEN, Eric (Lawrence Berkeley National Lab (US)); JOHNSON, Thomas (Lawrence Berkeley National Laboratory); CLAYBAUGH, Todd (LBNL)

WED-PO2-616-10: Preliminary Design of Insulation System for Superconducting Conductor Testing Facility
MA, Yuanyuan; HUAN, Jin

WED-PO2-616-11: Surface Dielectric Characteristics of GFRP and PTFE in Cryogenic Environment under the Switching Impulse Superimposed on DC Voltage

KIM, Hoseung (Hanyang.ac.kr); OH, Donghun (Hanyang.ac.kr); LEE, Bang-Wook (Hanyang University)

WED-PO2-616-12: Trap Energy Distribution of PPLP according to PP ratio at cryogenic temperature
KIM, Yongrok (Hanyang University); LEE, Bang-Wook (Hanyang University)

WED-PO2-616-13: Varistor Insulation for HTS Magnets
KIRBY, Glyn (CERN); COLL, Dominic (M&I Materials Ltd); GALVIN, Tom (M&I materials ltd); STEVENSON, Richard (M&I Materials); LIVESEY, Penelope (M&I Materials ltd)

On-line 7:00 - 8:00, On-site 10:30 - 12:30, On-line 21:00 - 22:00

2F Multipurpose Hall

WED-PO2-706 Quench Detection II

Session Moderator: Yoh Nagasaki, Tohoku University

WED-PO2-706-01: Application of the Universal Quench Detection System to the Protection of the High-Luminosity LHC Magnets at CERN
STECKERT, Jens (CERN); VANCEA, Dragos-Gabriel (CERN); SPASIC, Jelena (CERN); DENZ, Reiner (CERN); MUNDRA, Surbhi (Graduate Fellow); PODZORNY, Tomasz (CERN)

WED-PO2-706-02: A Quench Detection and Monitoring System for Superconducting Magnets at Fermilab
ORRIS, Darryl (Fermi National Accelerator Laboratory (FNAL)); CHLACHIDZE, Guram (Fermi National Accelerator Laboratory (FNAL)); CUMMINGS, Thomas (Fermi National Accelerator Laboratory (FNAL)); FEHER, Sandor (Fermi National Accelerator Laboratory (FNAL)); GALT, Artur (Fermi National Accelerator Laboratory (FNAL)); HOCKER, Andy (Fermi National Accelerator Laboratory (FNAL)); LAMM, Michael (Fermi National Accelerator Laboratory (FNAL)); MAKULSKI, Andrzej (Fermi National Accelerator Laboratory (FNAL)); NOGIEC, Jerzy (Fermi National Accelerator Laboratory (FNAL)); TARTAGLIA, Michael (Fermi National Accelerator Laboratory (FNAL))

WED-PO2-706-03: Conceptual Design of Multi Power Receivers for Wireless Power Supply of Quench Detector with Highly Insulating Stability under Superconducting High Field Magnet
CHUNG, Yoon Do (Suwon Science College); PARK, Eun Young (Korea Christian University); CHU, yong

WED-PO2-706-05: Lifetime Studies of Electrolytic Capacitors Installed in the Protection Systems of the Superconducting Magnets in the Large Hadron Collider at CERN
BJORKHAUG, Erik Hildre (CERN); CARRILLO, David (CERN); NOWAK, Edward (CERN); RODRIGUEZ MATEOS, Felix (CERN)

WED-PO2-706-06: Numerical Model Development for CFETR CSMC Quench Detection System
WANG, Teng (Institute of Plasma Physics, Chinese Academy of Sciences); HU, Yanlan (Institute of

Plasma Physics, Chinese Academy of Sciences); NI, Qicai (Institute of Plasma Physics, Chinese Academy of Sciences); WANG, Zhongli (Anhui Jianzhu University)

WED-PO2-706-07: Primary quench detection analysis for DTT Central soledoid (CS) and polidal field coils (PF)
MORICI, Luigi (ENEA); MESSINA, Giuseppe (ENEA); FIAMOZZI ZIGNANI, Chiarasole (ENEA)

WED-PO2-706-08: Processing of the quench detection signals for CS model coil of CFETR
WANG, Teng (Institute of Plasma Physics, Chinese Academy of Sciences); HU, Yanlan (Institute of Plasma Physics, Chinese Academy of Sciences); XIAO, Yezheng (Institute of Plasma Physics, Chinese Academy of Sciences); LI, Tong (High Magnetic Field Laboratory, Chinese Academy of Sciences)

WED-PO2-706-09: Protection strategy and quench study of MCBXF magnets
TORAL, Fernando (Centro de Investigaciones Energeti cas Medioambientales y Tecno); ALCAZAR, Cristóbal (CIEMAT); DOMÍNGUEZ MARTÍNEZ, Manuel Ángel (Ciemat); DURAN LUCAS, Oscar (Centro de Investigaciones Energeti cas Medioambientales y Tecno); FERNANDEZ, Alejandro (CIEMAT); GARCIA MATOS, Jesus Angel; GARCIA-TABARES, Luis (Centro de Investigaciones Energeti cas Medioambientales y Tecno); GONZALEZ GOMEZ, Luis Antonio (CIEMAT); GOMEZ, Pablo (CIEMAT); JIMENEZ, Jesus (Ciemat); MARTINEZ DE ALVARO, Teresa; MARTINS JARDIM, Carla (Centro de Investigaciones Energeticas, MedioAmbientales y Tecnologicas); PEREZ, Jose M (CIEMAT); SOBRINO, Pablo (CIEMAT); FERRADAS TROITINO, Salvador (CERN); PEREZ, Juan Carlos (CERN); TODESCO, Ezio (CERN); WILLERING, Gerard (CERN); PARDO, Jose Antonio (CIEMAT)

WED-PO2-706-10: Quench Detection and Voltage Spikes Analysis of the FECR Half-scale Nb3Sn Superconducting Magnet
OU, Xianjin (Institute of Modern Physics, CAS); FENG, Wentian (Institute of Modern Physics, CAS); YOU, Wei (Institute of Modern Physics, CAS); WU, Wei (Institute of Modern Physics, Chinese Academy of Sciences); MEI, Enming (IMPCAS); ZHENG, shijun (Institute of Modern Physics, Chinese Academy of Sciences); CHEN, Yuquan; WANG, Xudong (Institute of Modern Physics, CAS); WU, Beimin (Institute of Modern Physics, Chinese Academy of Sciences); QIN, Xiangqi (Institute of Modern Physics, CAS); SUN, Liangting (Institute of Modern Physics, CAS); YUAN, Ping (Institute of Modern Physics, CAS)

On-line 7:00 - 8:00, On-site 10:30 - 12:30, On-line 21:00 - 22:00

2F Multipurpose Hall

WED-PO2-709 No-Insulation Coils

Session Moderator: Yoh Nagasaki, Tohoku University

WED-PO2-709-01: Analysis of the Defect-Irrelevant behavior of a No-Insulation HTS pancake coil including multiple superconductive joints
MUSSO, Andrea (University of Bologna); BANG, Jeseok (Seoul National University); BONG, Uijong (Seoul National University); BRESCHI, Marco (Universita e INFN, Bologna (IT)); IM, Chaemin (Seoul National University); KIM, Geonyoung (Seoul National University); KIM, Jaemin (Seoul National

University); PARK, Jeonghwan (Seoul National University); HAHN, Seungyong (Seoul National University)

WED-PO2-709-02: Behaviour prediction of parallel co-wound no-insulation HTS coil
ZHOU, Pengbo (Southwest Jiaotong University)

WED-PO2-709-03: Current and temperature distributions in HTS coils with and without insulation in a layer-wound configuration
MUSSO, Andrea (University of Bologna); ANGELI, Giuliano (RSE S.p.A.); ASCADE, Massimo (RSE S.p.A.); BOCCHI, Marco (RSE S.p.A.); RIBANI, Pier Luigi (University of Bologna); ROSSI, Valerio (RSE S.p.A.); VALZASINA, Angelo (RSE S.p.A.); BRESCHI, Marco (Universita e INFN, Bologna (IT))

WED-PO2-709-04: Current behaviors of NI REBCO pancake coil wound with multi-bundled conductors during charging and against local normal state transition.
KODAKA, Kazuma (Hokkaido University); NOGUCHI, So (Hokkaido University)

WED-PO2-709-05: Long-Term Operation Results of a Stack of Metal Insulation HTS Pancake Coils for SMES Applications
IM, Chaemin (Seoul National University); KIM, Geonyoung (Seoul National University); AN, Soobin (Seoul National University); LEE, Jung Tae (Seoul National University); BONG, Uijong (Seoul National University); BANG, Jeseok (Seoul National University); KIM, Jaemin (Seoul National University); JEONG, Youngsik (Powernix Co., Ltd); YUN, Kwanghee (Powernix Co., Ltd); HAHN, Seungyong (Seoul National University)

WED-PO2-709-06: Numerical evaluation of electromagnetic behavior of multi-stacked no-insulation REBCO coil system assuming applications to high-field whole-body MRIs and medical cyclotrons
NEMOTO, Ui (Waseda University); TSUYOSHI, Kyoka; KITAMURA, Mayu (Waseda University); NOGUCHI, So; ISHIYAMA, Atsushi

WED-PO2-709-07: Numerical evaluation of transient thermal stability of no-insulation pancake coil wound with REBCO coated conductor with some defects
TSUYOSHI, Kyoka (Waseda University); NEMOTO, Ui; KITAMURA, Mayu; NOGUCHI, So; ISHIYAMA, Atsushi

WED-PO2-709-08: Numerical evaluation of transient thermal stability of no-insulation REBCO pancake coils with non-contact area between turns
KITAMURA, Mayu (Waseda University); NEMOTO, Ui (Waseda University); TSUYOSHI, Kyoka (Waseda University); NOGUCHI, So (Hokkaido University); ISHIYAMA, Atsushi (Waseda University)

WED-PO2-709-09: Quench Protection Test Results of an HTS Model Magnet for MRI Systems Equipped with Electrically Conductive Epoxy Resin
UTO, Tatsuro (Toshiba Energy Systems & Solutions Corporation); IWAI, Sadanori (Toshiba Energy Systems & Solutions Corporation); OHTANI, Yasumi (Toshiba Energy Systems & Solutions Corporation); KUSANO, Takashi (Toshiba Energy Systems & Solutions Corporation); ISHII, Hirotaka (Toshiba Corporation); ITO, Toshinobu (Toshiba Energy Systems & Solutions Corporation); NOMURA,

Shunji (Toshiba Energy Systems & Solutions Corporation)

WED-PO2-709-10: Thermal Stability Analysis of No-insulation Magnet under Dynamic Operational Conditions
DUAN, Pu (Huazhong University of Science and Technology); LI, Jingdong (Huazhong University of Science and Technology); XU, Ying (Huazhong University of Science and Technology); REN, Li (Huazhong University of Science and Technology); TANG, Yuejin (Huazhong University of Science and Technology); SHI, Jing (Huazhong University of Science and Technology); GUO, shuqiang (Huazhong University of Science and technology); FAN, Peng (Huazhong University of Science and Technology)

WED-PO2-709-11: The study of overcurrent excitation for NI HTS coils
GAO, Yusong (Shanghai Jiao Tong university); WU, Wei (Shanghai Jiao Tong University); JIN, Zhijian (Shanghai Jiao Tong University Dept. of Physics)

On-line 7:00 - 8:00, On-site 10:30 - 12:30, On-line 21:00 - 22:00

2F Multipurpose Hall

WED-PO2-712 Losses in HTS conductors

Session Moderator: Shogo Muto, Fujikura

WED-PO2-712-01: AC loss measurement of a tri-axial superconducting cable based on a digital compensation method
ZHU, Jiahui (China Electric Power Research Institute); MA, Shizhuo; CHEN, Panpan; YANG, Qifan; YANG, Wenjiang; JINGYING, Cao

WED-PO2-712-02: AC loss of HTS coils wound with various types of CORC
HAN, Jinwoo (Korea Polytechnic University); LEE, Ji-Kwang (Woosuk University); GOO, Jisung (Korea Polytechnic University); CHOI, Kyeongdal (Korea Polytechnic University); KIM, Woo-Seok (Korea Polytechnic University)

WED-PO2-712-03: Analysis of AC losses in coated conductor stack cables for fusion magnets
UGLIETTI, Davide (Ecole Polytechnique Federale de Lausanne (EPFL), Swiss Plasma Center (SPC), CH-5232 Villigen PSI, Switzerland)

WED-PO2-712-04: Coupling time constant measurements and analyses of spiral copper-plated multifilament coated conductors
WANG, Ning (Kyoto University); SOGABE, Yusuke (Kyoto University); TAKAHASHI, Akira (Kyoto university); AMEMIYA, Naoyuki (Kyoto University)

WED-PO2-712-05: Coupling time constant measurements of short pieces of copper-plated multifilament coated conductors at 4.2 K and 77 K
FUJITA, Hirokazu (Kyoto University); SOGABE, Yusuke (Kyoto University); AMEMIYA, Naoyuki (Kyoto

University)

WED-PO2-712-06: Development of large-scale numerical electromagnetic field analysis model for SCSC cables
SOGABE, Yusuke (Kyoto University); HATTORI, Takashi (Kyoto University); AMEMIYA, Naoyuki (Kyoto University)

WED-PO2-712-07: Dynamic loss and magnetization loss of HTS coated conductors with magnetic substrate
HU, Jintao (University of Cambridge); MA, Jun (Cambridge Universitry); COOMBS, Tim

WED-PO2-712-08: Highly sensitive measurement of AC loss characteristics of short and straight HTS tapes under transverse magnetic fields by a pickup coil method
KAWABATA, Shuma (Kagoshima University); UEDA, Kouta (Kagoshima University); HIRAYAMA, Tadashi (Kagoshima University)

WED-PO2-712-09: Modelling of magnetization loss of CORC cables with three material laws and comparison with measurements
KAPOLKA, Milan (University of Leicester); FAREED, Muhammad Umar (University of Leicester); CLEGG, Matthew (University of Leicester); RUIZ, Harold (University of Leicester)

WED-PO2-712-10: Numerical Study on AC Loss in Quasi-Isotropic Superconducting Strand at Liquid Helium Temperatures
PI, Wei (North China Electric Power University); WANG, Ruiqi (North China Electric Power University); SUN, Ziyuan (NCEPU); ZHANG, Zhaoyu (North China Electric Power University); YANG, Yu (North China Electric Power University)

On-line 7:00 - 8:00, On-site 10:30 - 12:30, On-line 21:00 - 22:00

2F Multipurpose Hall

WED-PO2-716 Mechanical Behavior of Coil II

Session Moderator: Shogo Muto, Fujikura

WED-PO2-716-01: Comparative Analysis of MAXFAP1b Coils with respect to Magnet Training Behavior.
KRAVE, Steve (Fermilab); AMBROSIO, Giorgio (Fermilab); PARKER, Marcellus (FNAL); YU, Miao (Fermilab); NOBREGA, Fred (Fermilab)

WED-PO2-716-04: Internal strain responses of YBCO superconducting taps based using embedded and distributed FBGs under tensile，compression and bending loading
ZHANG, Pengnian; XIN, Canjie; GUAN, Mingzhi; WU, Wei

WED-PO2-716-05: Mechanical Design of the Mirror Structure for the full-length Nb3Sn Sextupole Coil of 45 GHz ECR Ion Source

ZHU, Li (Institute of Modern Physics, Chinese Academy of Sciences); WU, Wei (Institute of Modern Physics, Chinese Academy of Sciences); QIN, Xiangqi (Institute of Modern Physics, Chinese Academy of Sciences); WANG, Lishi (Institute of Modern Physics, Chinese Academy of Sciences); ZHANG, Yalong (LANZHOU KEJIN TAIJI CORPORATION,LTD); WANG, Pengyuan (Lanzhou University of Technology); OU, Xianjin (Institute of Modern Physics, Chinese Academy of Sciences); MEI, Enming (Institute of Modern Physics, Chinese Academy of Sciences); CHEN, Yuquan (Institute of Modern Physics, Chinese Academy of Sciences); XIN, Canjie (Institute of Modern Physics, Chinese Academy of Sciences); LI, Chao (Xi'An Superconducting Magnet Technology Co.,LTD); SUN, Lingting (Institute of Modern Physics, Chinese Academy of Sciences)

WED-PO2-716-06: Mechanical validation of the Combined Support Structure for FECR Nb3Sn Superconducting Magnet Prototype

WU, Beimin (Institute of Modern Physics, Chinese Academy of Sciences); XIN, Canjie; WU, Wei (Institute of Modern Physics, Chinese Academy of Sciences); CHEN, Yuquan; GUAN, Mingzhi (The Institute of Modern Physics,Chinese Academy of Sciences); WANG, Xingzhe (Lanzhou University); OU, Xianjin; MEI, Enming (IMPCAS); SUN, Liangting (Institute of Modern Physics, CAS); ZHAO, Hongwei (Institute of Modern Physics)

WED-PO2-716-07: Preliminary strain measurement in high field superconducting magnets with fiber Bragg gating (FBG)

ZHANG, Zhen (Institute of High Energy Physics, Chinese Academy of Sciences) ; WANG, Yingzhe (IHEP); SHI, Jinrui (Institute of High Energy Physics, Chinese Academy of Sciences); FENG, Ze (Institute of High Energy Physics, Chinese Academy of Sciences); LI, Daozheng (Institute of High Energy Physics, Chinese Academy of Sciences); XU, Qingjin (IHEP)

WED-PO2-716-08: Various methodologies used in the mechanical analysis of TF coils for EU DEMO

BENNET, Jose (CEA French Alternative Energies and Atomic Energy Com) ; NUNIO, Francois (CEA Paris Saclay); DENARIE, Loïc (CEA Paris Saclay); CORATO, Valentina (ENEA); MISIARA, Nicolas (CEA); ZANI, Louis (CEA)

On-line 7:00 - 8:00, On-site 10:30 - 12:30, On-line 21:00 - 22:00

2F Multipurpose Hall

WED-PO2-718 Design and Analysis I

Session Moderator: So Noguchi, Hokkaido University

WED-PO2-718-01: A FEM/BEM scalar potential formulation for 3D nonlinear magnetostatic analysis in superconducting accelerator magnets, implemented in PITHIA-EM software

RODOPOULOS, Dimitris (University of Patras); KOKKINOS, Charilaos (FEAC Engineering P.C.); POLYZOS, Demosthenes (University of Patras)

WED-PO2-718-02: Analyses of Transient Electrical Behavior and Thermal Stability in No-Insulation REBCO Pancake Coils Using Electromagnetic-thermal Model

LIU, Quanyue (Regional Leading Research Center, Changwon National University); LEE, Sangjin (Uiduk University); LEE, Jaehwan (Department of Smart Manufacturing Engineering, Changwon National University); LEE, Jeongmin (Department Mechanical Engineering, Changwon National University); KIM, Junil (Korea Electrotechnology Research Institute); KIM, Seokho (Department Mechanical Engineering, Changwon National University)

WED-PO2-718-03: Presentation withdrawn

WED-PO2-718-04: Dynamic magnetic hysteresis modeling based on improved parametric magneto-dynamic model
CHEN, Long (China Three Gorges University); ZHANG, Zeyu (China Three Gorges University); BEN, Tong (China Three Gorges University); ZHAO, Hanyu

WED-PO2-718-05: Electromagnetic Analysis of DTT Central Solenoid and Poloidal Field coils
MESSINA, Giuseppe (ENEA); MORICI, Luigi (ENEA)

WED-PO2-718-06: High-performance simulation of the magnetic field in superconducting magnets using domain decomposition algorithms in the Sparselizard open source FEM library
HALBACH, Alexandre (Tampere University); RUUSKANEN, Janne (Tampere University of Technology); KIRBY, Glyn (CERN); MANGIAROTTI, Franco Julio (CERN); SALMI, Tiina (Tampere University of Technology, Finland)

WED-PO2-718-07: High-temperature superconducting cable optimization design software based on 2-D electromagnetic thermal analysis model
LONG, Jiajie (Huazhong University of Science and Technology); REN, Li (Huazhong University of Science and Technology); XU, Ying (Huazhong University of Science and Technology); SHI, Jing (Huazhong University of Science and Technology); TANG, Yuejin (Huazhong University of Science and Technology); LI, Jingdong

WED-PO2-718-08: Nonlinear magnetic field analysis in superconducting accelerator magnets via a new FPM/BEM scheme, implemented in PITHIA-EM software
RODOPOULOS, Dimitris (University of Patras); POLYZOS, Demosthenes (University of Patras); KOKKINOS, Charilaos (FEAC Engineering P.C.)

WED-PO2-718-09: Numerical Optimization of Electromagnet Current Distribution in Superconducting Linear Acceleration System
TAKAYAMA, Teruou (Yamagata University); YAMAGUCHI, Takazumi (SOKENDAI); SAITOH, Ayumu (Yamagata University); KAMITANI, Atsushi (Yamagata University)

WED-PO2-718-10: Screening current simulation of REBCO pancake coils considering coil deformation
NOGUCHI, So (Hokkaido University); MATO, Takanobu (Hokkaido University)

WED-PO2-718-11: Suspension characteristics Analysis on Three-degree-of-freedom Bearingless Switched Reluctance Motor
YE, Xiaoting; WANG, Zixin (Huaiyin Institute of Technology); XIAN, Xin (Huaiyin Institute of

Technology)

On-line 7:00 - 8:00, On-site 10:30 - 12:30, On-line 21:00 - 22:00

2F Multipurpose Hall

WED-PO2-721 Novel Diagnostics

Session Moderator: So Noguchi, Hokkaido University

WED-PO2-721-01: An Induction-Coil Measurement System for Normal- and Superconducting Solenoids
PETRONE, Carlo (CERN); SORTI, Stefano (Politecnico di Milano (IT)); MEHL, Bertrand (CERN); RUSSENSCHUCK, Stephan (CERN)

WED-PO2-721-02: Characterizing performance degradation through the analysis of V-I measurements in Nb3Sn accelerator magnets
KEIJZER, Ruben (University of Twente); BOTTURA, Luca (CERN); BORDINI, Bernardo (CERN); MANGIAROTTI, Franco Julio (CERN); SUCCI, Giovanni (CERN); WILLERING, Gerard (CERN); DHALLÉ, Marc (University of Twente); TEN KATE, Herman (University of Twente)

WED-PO2-721-03: Distributed fiber optic sensing to identify locations of resistive transitions in REBCO conductors and magnets
LUO, Linqing (Lawrence Berkeley National Laboratory); WANG, Xiaorong (Lawrence Berkeley National Laboratory); STERN, Jillian (Tufts University); WU, Yuxin (Lawrence Berkeley National Laboratory); FERRACIN, Paolo

WED-PO2-721-04: Flex-PCB quench antenna developments at FNAL
STOYNEV, Stoyan (FNAL (US)); DIMARCO, Joseph (Fermilab (US))

WED-PO2-721-06: Investigation of magnet training and quench precursors with acoustic emission
MARCHEVSKY, Maxim; ARBELAEZ, Diego; TEYBER, Reed (Lawrence Berkeley National Laboratory); PRESTEMON, Soren

WED-PO2-721-07: Presentation withdrawn

WED-PO2-721-09: Progress Towards Hall Sensor-Based Quench Detection in CORC® Cables
TEYBER, Reed (Lawrence Berkeley National Laboratory); MARCHEVSKY, Maxim; PRESTEMON, Soren; PHIFER, Virginia; WEISS, Jeremy (Advanced Conductor Technologies and University of Colorado, Boulder); VAN DER LAAN, Danko (Advanced Conductor Technologies)

WED-PO2-721-10: Verifying the method to estimate local critical currents in the HTS coil by means of Pick up coils
OMURA, Junya (Kagoshima University); KAWAGOE, Akifumi (Kagoshima University); SATO, Go

(Kagoshima University)

On-line 7:00 - 8:00, On-site 10:30 - 12:30, On-line 21:00 - 22:00

2F Multipurpose Hall

WED-PO2-723 Moel Coil II & Test Facilities

Session Moderator: So Noguchi, Hokkaido University

WED-PO2-723-01: A Simple Calculation Method for Center Magnetic Flux Density of a Magnetic Core Electromagnet with a Wide Air-Gap

HANG, XU; CHIKARAISHI, Hirotaka; ISOBE, Takanori (University of Tsukuba); KAMADA, Hiroharu (Meiji University); NOMURA, Shinichi (Meiji University); TSUTSUI, Hiroaki (Tokyo Institute of Technology)

WED-PO2-723-02: Assembly and mechanical analysis of the Canted-Cosine-Theta subscale magnets

RUDEIROS FERNANDEZ, Jose Luis (LBNL); ARBELAEZ, Diego; BROUWER, Lucas (Lawrence Berkeley National Laboratory); CASPI, Shlomo; FERRACIN, Paolo; HAFALIA, Aurelio (Unknown); KRUTULIS, Mark (Lawrence Berkeley National Laboratory); LEFEVERS, Kevin (Lawrence Berkeley National Laboratory); PRESTEMON, Soren; REYNOLDS, Matthew (Lawrence Berkeley National Laboratory); SHEN, Tengming (Lawrence Berkeley National Lab); SWANSON, James (Lawrence Berkeley National Laboratory); VALLONE, Giorgio (Lawrence Berkeley National Lab. (US))

WED-PO2-723-03: [Invited] A subscale canted cosθ dipole magnet using high-temperature superconducting STAR™ wires

WANG, Xiaorong (Lawrence Berkeley National Laboratory); BOGDANOF, Timothy (Lawrence Berkeley National Laboratory); FERRACIN, Paolo; GHIORSO, William (Lawrence Berkeley National Lab); HIGLEY, Hugh (Lawrence Berkeley National Laboratory); LEE, Reginald (Lawrence Berkeley National Laboratory); MYERS, Cory (Lawrence Berkeley National Lab); PRESTEMON, Soren; KAR, Soumen (AMPeers LLC); SAI SANDRA, Jithin (AMPeers LLC); KADIYALA, Janakiram (AMPeers LLC); SELVAMANICKAM, Venkat (University of Houston)

WED-PO2-723-04: Current Status of the Facility for High Field Cable Testing at Fermilab

VELEV, Gueorgui (FNAL); ARCOLA, Cristian (Universita degli Studi di Parma (IT)); KASHIKHIN, VLADIMIR (Fermilab); KOSHELEV, Sergey (Fermi National Accelerator Laboratory); MAKULSKI, Andrzej (Fermi National Accelerator Laboratory); MARINOZZI, Vittorio (FNAL); NIKOLIC, Vladica (Fermi National Accelerator Laboratory); ORRIS, Darryl (Fermi National Accelerator Laboratory); TARTAGLIA, Michael (Fermi National Accelerator Laboratory)

WED-PO2-723-05: DC Performance of a Nb3Sn Rutherford Cable Solenoid Insert

ZHANG, Yongliang (Chinses Academy of Science); DAI, Chao (Institute of Plasma Physics); WU, Yu (Institute of Plasma Physics); MA, Hongjun (Institute of Plasma Physics); ZHANG, Changneng (Institute of Plasma Physics); XU, Aihua (Changzhou Vocational Institute of Mechatronic Technology); SHI, Yi (Institute of Plasma Physics); WU, Kaihong (Institute of Plasma Physics)

WED-PO2-723-06: Development of an Iron-Based Superconductor Magnet: A Study on the 64 mm Diameter Iron-based Superconductors Coils
ZHANG, Zhan; LIU, fang; WANG, Dongliang (Institute of Electrical Engineering, CAS); HONG, wenzhe; WANG, Qiqi (Institute of Plasma Physics, Chinese Academy of Sciences); ZHOU, Chao (Institute of Plasma Physics, Chinese Academy of Sciences); QIN, Jinggang; ZHANG, Xianping (Institute of Electrical Engineering, Chinese Academy of Science); MA, Yanwei (Institute of Electrical Engineering, Chinese Academy of Sciences); LIU, Huajun (Chinese Academy of Sciences)

WED-PO2-723-07: Inductive Method for the Critical Current Measurements on the Aluminum stabilized cable
ZHAO, Ling (Institute of High Energy Physics, Chinese Academy of Sciences); ZHU, Zian (IHEP Beijing); WANG, Menglin; XIE, Zongtai; ZHANG, Guoqing

WED-PO2-723-08: Mechanical and seismic performance analysis of the dewar used for helium gas tightness test for CFETR conductor
XU, Aihua (institute of plasma physics Chinese academy of sciences); ZHANG, Yongliang (Chinses Academy of Science); WU, kaihong (Institute of plasma physics, Chinese academy of sciences)

WED-PO2-723-09: Persistent current mode operation of a cryocooler-cooled joint-less HTS magnet
YOON, Miyeon (Korea Polytechnic University); KIM, Woo-Seok (Korea Polytechnic University); LEE, Ji-Kwang (Woosuk University); CHOI, Kyeongdal (Korea Polytechnic University)

WED-PO2-723-10: Progress on the Design of the 15 T Magnet of the EDIPO Test Facility
SARASOLA, Xabier (EPFL-SPC); BRUZZONE, Pierluigi (EPFL-SPC); GUARINO, Roberto (EPFL-SPC); SEDLAK, Kamil (EPFL-SPC); SOLODKO, Evgeny (EPFL-SPC)

WED-PO2-723-11: Sudden discharge measurement system and results for 100 mH class no-insulation coils
BOULOUKAKIS, Konstantinos (Victoria University of Wellington); SOMMERVILLE, Daniel (Victoria University of Wellington); WEIJERS, Huub (Victoria University of Wellington); PARKINSON, Ben (Victoria University of Wellington)

THURSDAY, NOBEMBER 18, 2021

9:30 – 10:00 **3F Main Hall**

Award

14:00 - 14:45 **3F Main Hall**

Plenary: Mark Palmer (BNL)

Muon Colliders and Their Magnet Technology Needs

Session Moderators: Akira Yamamoto, KEK and Qingjin Xu, CAS, IHEP

14:00 **THU-PL4: [Plenary] Muon Colliders and Their Magnet Technology Needs**
PALMER, Mark (BNL)

14:45 - 15:30 **3F Main Hall**

Plenary: Haruyuki Murakami (QST)

Overview of Construction and First Commissioning Results of JT-60SA Superconducting Magnets

Session Moderators: Norikiyo Koizumi, QST and Sang Jun Oh, KSTAR

14:45 **THU-PL5: [Plenary] Overview of Construction and First Commissioning Results of JT-60SA Superconducting Magnets**
MURAKAMI, Haruyuki (National Institutes for Quantum and Radiological Science and Technology)

16:00 - 18:00 **3F Main Hall**

THU-OR4-401 Magnets for Medical, Biological, and Analytical Applications

Session Moderators: Yu Suetomi, RIKEN and Enrico Felcini, CERN

16:00 **THU-OR4-401-01: [Invited] Commissioning status of the Iseult Whole Body 11.7 T MRI**
QUETTIER, Lionel (CEA); AUBERT, Guy (CEA); BELORGEY, Jean (CEA); BERRIAUD,

Christophe Paul; BOULANT, Nicolas (CEA); BREDY, Philippe (CEA Saclay); DILASSER, Guillaume (CEA); DUBOIS, Olivier (CEA); GILGRASS, Graham (Aimant Ltd); GUIHARD, Quentin (CEA); JUSTER, Francois-Paul (CEA); LANNOU, Herve (Centre d'Etudes de Saclay (CEA-Saclay)); LEPRETRE, Frederic (CEA); RABRAIT-LERMAN, Cecile (CEA); MOLINIE, frederic (CEA Saclay); NUNIO, Francois (CEA); SCOLA, Loris (CEA); SINANNA, Armand (CEA); TOUZERY, Robert (CEA); VEDRINE, Pierre (Universite Paris-Saclay (FR))

16:15 **THU-OR4-401-02: Study of the Basic Properties of Meter-class REBCO High-Temperature Superconducting Coils for MRI**
MIURA, Hideaki (Mitsubishi Electric Corp.); HATTORI, Taisuke (MITSUBISHI ELECTRIC Corp.); OYA, Masayoshi (Mitsubishi Electric Corporation); MATSUDA, Tetsuya (MITSUBISHI ELECTRIC Corp.); TONOOKA, Shun (Mitsubishi Electric Corp.); SATO, Shinji (Mitsubishi Electric Corp.); HIGASHIKAWA, Kohei (Kyushu University); KISS, Takanobu (Kyushu University); YOKOE, Daisaku (JFCC); ITOH, Taishi (JFCC); KATO, Takeharu (JFCC)

16:30 **THU-OR4-401-03: Design of a Curved Superconducting Combined Function Bending Magnet Demonstrator for Hadron Therapy**
KARPPINEN, Mikko (CERN); AMALDI, Ugo (TERA Foundation (IT)); KOKKINOS, Charilaos (FEAC Engineering P.C.); BENEDETTO, Elena (TERA Foundation (IT)); RAVAIOLI, Emmanuele (CERN); TOMMASINI, Davide (CERN); FERRENTINO, Vittorio (Universita e sezione INFN di Napoli (IT))

16:45 **THU-OR4-401-04: Mechanical and thermal analysis of an HTS superconducting magnet for an achromatic gantry for proton therapy**
RUDEIROS FERNANDEZ, Jose Luis (LBNL); BROUWER, Lucas (Lawrence Berkeley National Laboratory); MALLON, Philip (LBNL); PRESTEMON, Soren; QIANG, Ji (Lawrence Berkeley National Laboratory); SHEN, Tengming (Lawrence Berkeley National Lab); TEYBER, Reed (Lawrence Berkeley National Laboratory)

17:00 **THU-OR4-401-05: Preliminary study of 4 T superconducting dipoles for a light rotating gantry for ion-therapy**
ROSSI, Lucio (Universita degli Studi e INFN Milano (IT)); DE MATTEIS, Ernesto (INFN); KARPPINEN, Mikko (CERN); PERINI, Diego (CERN); PULLIA, Marco Giuseppe (Fondazione CNAO (IT)); TOMMASINI, Davide (CERN)

17:15 **THU-OR4-401-06: Feasibility Study of GaToroid Gantries for Carbon Ions**
FELCINI, Enrico (CNAO Centro Nazionale di Adroterapia Oncologica); BOTTURA, Luca (CERN); DUTOIT, Bertrand (EPFL)

17:30 **THU-OR4-401-07: Development of a persistent-mode 400 MHz (9.39 T) LTS/Bi2223 NMR magnet with a Bi2223 superconducting joint**
TAKEDA, Yasuaki (NIMS); SUETOMI, Yu (RIKEN); NAKAI, Ukyo (Aoyama Gakuin University); MATSUTAKE, Yuichi (Sophia University); YAGAI, TSUYOSHI (Sophia University); PIAO, Renzhong (RIKEN); YAMAZAKI, Toshio (RIKEN); YANAGISAWA, Yoshinori (RIKEN); MOTOKI, Takanori (Aoyama Gakuin University); SHIMOYAMA, Jun-ichi (Aoyama Gakuin University); HAMADA, Mamoru (JASTEC); SAITO, Kazuyoshi (JASTEC)

17:45 **THU-OR4-401-08: First NMR Relaxometry using Outer Field of Single-sided HTS Bulk Magnet activated by Pulsed Field**
TAKAHASHI, Masato (RIKEN); KIKUCHI, Sho (Shibaura Institute of Technology); INOUE, Natsuki (Shibaura Institute of Technology); SAKAI, Naomichi (Shibaura Institute of Technology); MURAKAMI, Masato (Shibaura Institute of Technology); YOKOYAMA, Kazuya (Ashikaga Institute of Technology); OKA, Tetsuo (Shibaura Institute of Technology); NAKAMURA, Takashi (RIKEN)

16:00 - 18:00 4F 409+410

THU-OR4-202 Fusion Magnets II

Session Moderators: Hideki Kajitani, QST and Laura Savoldi, Politecnico di Torino

16:00 **THU-OR4-202-01: [Invited] The SPARC Toroidal Field Model Coil**
HARTWIG, Zachary (MIT); THE SPARC TOROIDAL FIELD MODEL COIL TEAM

16:15 **THU-OR4-202-02: About the first 5 toroidal field coils and 2 poloidal field coils delivered by EU to ITER**
BONITO-OLIVA, Alessandro (Fusion for Energy); APRILI, Piergiorgio (Fusion for Energy); BELLESIA, Boris (fusion for energy); BOTER, Eva (FUSION FOR ENERGY); BOUTBOUL, Thierry (Fusion for Energy); CARVAS DE SOUSA, Pedro (Fusion for Energy); CASAS LINO, Maria Paz (Fusion for Energy); GAVOUYERE-LASSERRE, Pierre (Fusion for Energy); HARRISON, Robert (Fusion for Energy); HERNANDEZ, Angela (Fusion for Energy); JIMENEZ, Marc (Fusion For Energy); LOIZAGA, Ander (Fusion for Energy); MARTINEZ, Monica (Fusion for Energy); ROMANO, Gennaro (Fusion for Energy); ROSSI, Daniel (Fusion for Energy); VALENTE, Pierluigi (Fusion for Energy); VILADIU, Eduard (Fusion for Energy); VIZIO, Enrico (Fusion for Energy); BATISTA, Rita (Fusion for Energy); PAIVA, Vera (Fusion for Energy); MARTINS, Vitor (ISQ); CASARIN, Valerie (Fusion for Energy); CHARALAMPOS, Kostopoulos (Fusion for Energy); LO BUE, Alessandro (Fusion for Energy); POMPA, Edoardo (Fusion for Energy); POZUELO, Eduardo (Fusion for Energy); BYUNG SU, Lim (ITER); KOCZOROWSKI, Sebastien (ITER); LUONGO, Cesar (ITER); MITCHELL, Neil; MIN, Liao (ITER)

16:30 **THU-OR4-202-03: Completion of the first TF coil in the second manufacturing line in Japan**
KOIZUMI, Norikiyo (QST); TAKANO, Katsutoshi (QST); KAJITANI, Hideki (National Institutes for Quantum and Radiological Science and Technology); IGUCHI, Masahide (National Institutes for Quantum and Radiological Science and Technology); NAKAMOTO, Mio; TSUTSUMI, Fumiaki (QST); SAITO, Kengo (QST); NAKAHIRA, Masataka

16:45 **THU-OR4-202-04: Start of the ITER Central Solenoid Assembly**
SCHILD, Thierry (Iter); BRUTON, Andrew (Iter); CORMANY, Carl (Iter); GAUTHIER, Florent (ITER Organization); JONG, Cornelis (ITER Organization); LIAO, Min (ITER); MITCHELL, Neil; MARIANI, Antony (Iter); MIYOSHI, Yasuyuki (Iter); MARTOVETSKY, Nicolai (ORNL); EVERITT, David (5ak Ridge National Laboratory, US ITER Project); FREUDENBERG, Kevin

(Oak Ridge National Laboratory); VANDERGRIFF, David (ORNL); SMITH, John (General Atomics); DECOOL, Patrick (CEA); POTTS, Robert (General Atomics); STEPHENS, Alan (General Atomic)

17:00 **THU-OR4-202-05: Completion and Installation of the ITER Lower Poloidal Field Coils PF5 & 6**
MIN, Liao (ITER organization); LIM, Byung Su; REICH, Jens; PALLISA, Josep; MARTINEZLOPEZ, Monica; MITCHELL, Neil; DOLGETTA, Nello; BONITO-OLIVA, alessandro; SHEN, guang; WANG, lin

17:15 **THU-OR4-202-06: Moving Toward Completion of manufacturing of ITER PF1 Coil**
LIM, Byung Su (ITER); ILIN, Yury (ITER Organization); BAIKALOV, Andrei (ITER); FABRICE, Simon (ITER); MARUSHIN, Egor (ITER); MITCHELL, Neil (ITER); LIAO, Min (ITER); OUSTINOV, Alexander (ITER Russian DA); MEDNIKOV, Andrey (Efremov); RODIN, Igor (Efremov); HUA, Qing (ITER)

17:30 **THU-OR4-202-07: Further Development of the W7-X Magnet System FE Global Model in Preparation for Enhanced Operation Phase**
ZHU, Jiawu (Max-Planck-Institut fur Plasmaphysik); BYKOV, Victor (Max-Planck Institute for Plasmaphysics); WEGENER, Lutz (Max-Planck-Institut fur Plasmaphysik); BOSCH, Hans-Stephan (MPI fur Plasmaphysik)

17:45 **THU-OR4-202-08: Presentation withdrawn**

16:00 - 18:00 4F 413+414

THU-OR4-704 Stability and Quench

Session Moderators: Naoki Hirano, NIFS and Arnaud Badel, G2ELabo

16:00 **THU-OR4-704-01: An HTS Model Magnet for MRI Systems Equipped with Electrically Conductive Epoxy Resin Used in Quench Protection**
IWAI, Sadanori (Toshiba Energy Systems & Solutions Corporation); UTO, Tatsuro (Toshiba Energy Systems & Solutions Corporation); OHTANI, Yasumi (Toshiba Energy Systems & Solutions Corporation); KUSANO, Takashi (Toshiba Energy Systems & Solutions Corporation); ISHII, Hirotaka (Toshiba Corporation); ITO, Toshinobu (Toshiba Energy Systems & Solutions Corporation); NOMURA, Shunji (Toshiba Energy Systems & Solutions Corporation)

16:15 **THU-OR4-704-02: Transient Electro-Magnetic and Thermal Simulation of HTS Non-Insulated Coils**
VAN NUGTEREN, Jeroen (LittleBeast); BATEMAN, Rod (Tokamak Energy Ltd); BRISTOW, Matthew (Tokamak Energy Ltd); BRITTLES, Greg (Tokamak Energy); KRUIP, Marcel (Tokamak Energy); VAN NUGTEREN, Bas (Tokamak Energy Ltd); SLADE, Robert (Tokamak

Energy Ltd)

16:30 **THU-OR4-704-03: Experimental analysis of quench behavior in a Cable-In-Conduit-Conductor cooled by stagnant superfluid helium**
DURANONA, Unai (CEA); ABDEL MAKSOUD, Walid (CEA); BAUDOUY, Bertrand (CEA Paris-Saclay); LORIN, Clement (Universite Paris-Saclay (FR)); BERRIAUD, Christophe Paul; PONTAROLLO, Theophile (CEA); KASSAB, Souha (CEA); CALVELLI, Valerio; STACCHI, Francesco (CEA); DILASSER, Guillaume (CEA); LOTTIN, Jean-Pierre (DAPNIA); GODON, Pascal (CEA); GODON, Romain (CEA); DENARIE, Loic (CEA); NUNIO, Francois (CEA); SCOLA, Loris (CEA); JURIE, Stephane (CEA); CORREIA-MACHADO, Ricardo (CEA); MOLINIÉ, Frédéric (CEA Saclay); GUIHARD, Quentin (CEA); SOLENNE, Nicolas

16:45 **THU-OR4-704-04: Quench protection study of a large scale REBCO magnet with additional copper tapes**
MUTO, Shogo (Fujikura Ltd.); FUJITA, Shinji (Fujikura Ltd.); TSUCHIYA, Koki (Fujikura Ltd.); TAKEMOTO, Tetsuo (Fujikura Ltd.); MASAAKI, Ishii (Fujikura Ltd.); IIJIMA, Yasuhiro (Fujikura Ltd.); DAIBO, Masanori (Fujikura Ltd.)

17:00 **THU-OR4-704-05: Probability of premature quenching of HTS coil due to local reduction of critical current**
GÖMÖRY, Fedor (Slovak Academy of Sciences)

17:15 **THU-OR4-704-06: Ultrasonic Waveguides for Quench Detection in HTS Magnets**
MARCHEVSKY, Maxim (Lawrence Berkeley National Laboratory); PRESTEMON, Soren (Lawrence Berkeley National Laboratory); LOBKIS, Oleg (Etegent Technologies, Ltd.); ROTH, Richard (Etegent Technologies, Ltd.)

17:30 **THU-OR4-704-07: Optical fiber based quench detection in HTS applications using feature extraction on response signal**
AKBAR, Arooj (Ecole polytechnique federale de Lausanne - EPFL); RIVA, Nicolo' (EPFL EPF Lausanne); DUTOIT, Bertrand (EPFL)

17:45 **THU-OR4-704-08: [Invited] Design, fabrication and soundness test of a Bi2223 magnet immersed in liquid hydrogen**
IMAGAWA, Shinsaku (National Institute for Fusion Science); IWAMOTO, Akifumi (National Institute for Fusion Science); HAMAGUCHI, Shinji (National Institute for Fusion Science); SHIRAI, Yasuyuki (Kyoto University); SHIOTSU, Masahiro (Kyoto University); KAWASAKI, Rikako (Kyoto University); TSUDA, Makoto (Tohoku University); NAGASAKI, Yoh (Tohoku University); YAGAI, TSUYOSHI (Sophia University); OYA, Hikaru (The Graduate School of Energy Science, Kyoto University); MATSUMOTO, Fumiya (The Graduate School of Energy Science, Kyoto University); KOBAYASHI, Hiroaki (Institute of Space and Astronautical Science, JAXA)

18:30 - 20:30 3F Main Hall

THU-OR5-301 High Field Magnet

Session Moderators: Gen Nishijima, NIMS and Xavier Chaud, LNCMI

18:30 **THU-OR5-301-01: [Invited] 43+T Grenoble Hybrid Magnet: From final Assembly to Commissioning of the Superconducting Outsert**
PUGNAT, Pierre (LNCMI-Grenoble, CNRS, Univ. Grenoble-Alpes); BARBIER, Romain (LNCMI-Grenoble, CNRS, Univ. Grenoble-Alpes); BERRIAUD, Christophe (CEA-Saclay); BERTHIER, Romain (CEA-Saclay); GRANDCLÉMENT, Cédric (LNCMIGrenoble, CNRS, Univ. Grenoble-Alpes); HERVIEU, Bertrand (CEA-Saclay); JOUS SET, Julien (LNCMI-Grenoble, CNRS, Univ. Grenoble-Alpes); MOLINIÉ, Frédéric (CEA-Saclay); NEYRIAL, Hubert (CEA-Saclay); PELLOUX, Mickaël (LNCMI-Grenoble, CNRS, Univ. Grenoble-Alpes); PFISTER, Rolf (LNCMI-Grenoble, CNRS, Univ. Grenoble-Alpes); RONAYETTE, Luc (LNCMI-Grenoble, CNRS, Univ. Grenoble-Alpes); SCHNEIDER-MUNTAU, Hans J. (CS&T); YILDIZ, Eyub (LNCMI-Grenoble, CNRS, Univ. Grenoble-Alpes)

18:45 **THU-OR5-301-02: [Invited] Status of the HFML-Nijmegen 45 T Hybrid Magnet**
DEN OUDEN, Andries (HFML, Radboud University, Nijmegen, The Netherlands); WULFFERS, Chris (High Field Magnet Laboratory (HFML-EMFL), Radboud University, Nijmegen, the Netherlands); LAUREIJS, Gideon (High Field Magnet Laboratory (HFML-EMFL), Radboud University, Nijmegen, the Netherlands); PETERS, Bas (High Field Magnet Laboratory (HFML-EMFL), Radboud University, Nijmegen, the Netherlands); DE BRUIN, Tim (High Field Magnet Laboratory (HFML-EMFL), Radboud University, Nijmegen, the Netherlands); WIJNEN, Frans (High Field Magnet Laboratory (HFML-EMFL), Radboud University, Nijmegen, the Netherlands); PERENBOOM, Jos (High Field Magnet Laboratory (HFML-EMFL), Radboud University, Nijmegen, the Netherlands); DIXON, Iain (Florida State University); BIRD, Mark (FSU)

19:00 **THU-OR5-301-03: Design considerations for practical very high field cryogen-free superconducting magnets: 33 T and beyond**
BADEL, Arnaud (Tohoku University); TAKAHASHI, Kohki (Tohoku University); OKADA, Tatsunori (Tohoku University); MIYAZAKI, Hiroshi (Kyushu University); HANAI, Satoshi (Toshiba Energy System, Solutions Corporation); IOKA, Shigeru (Toshiba Energy System, Solutions Corporation); AWAJI, Satoshi (Tohoku University)

19:15 **THU-OR5-301-04: Design of DC Magnet for Super-X Test Facility**
HAN, Houxiang; SHI, Yi (Institute of plasma Physics Chinese Academy of Sciences); WU, Yu (ASIPP)

19:30 **THU-OR5-301-05: Engineering design of a large aperture 15 T cable test facility dipole magnet**
RUDEIROS FERNANDEZ, Jose Luis (LBNL); ARBELAEZ, Diego; FERRACIN, Paolo; HAFALIA, Aurelio (Unknown); MALLON, Philip (LBNL); NAUS, Michael (LBNL); PONG, Ian (LBNL); PRESTEMON, Soren; SABBI, GianLuca (LBNL); VALLONE, Giorgio (Lawrence Berkeley

National Lab. (US)); WIRDZEK, John (LBNL)

19:45 **THU-OR5-301-06: Design of a full Superconducting 35 T Magnet with a 20 T REBCO Insert**
SHAO, Liangjun (Tsinghua University); ZHANG, Xintao (the Institute of Plasma Physics, Chinese Academy of Sciences); YAN, Yufan (the State Key Laboratory of Tribology, Department of Mechanical Engineering, Tsinghua University); WANG, Haoyuan (Department of Mechanical Engineering, Tsinghua University); QU, Timing (the State Key Laboratory of Tribology, Department of Mechanical Engineering, Tsinghua University)

20:00 **THU-OR5-301-07: 25T/52mm warm-bore All YBCO superconducting magnet designed for High-frequency Gyrotrons**
ZHENG, Hengkang (Huazhong University of Science and Technology); SONG, Yunxing (Huazhong University of Science and Technology); LIU, Mengyu (Huazhong University of Science and Technology); LI, Liang (Huazhong University of Science and Technology)

20:15 **THU-OR5-301-08: 25.1T generation in 25T cryogen-free superconducting magnet with a modified Bi2223 insert**
AWAJI, Satoshi (Tohoku University); BADEL, Arnaud (Tohoku University); TAKAHASHI, Kohki (Tohoku University); OKADA, Tatsunori (Tohoku University); HANAI, Satoshi (Toshiba Energy System, Solutions Corporation); MIYAZAKI, Hiroshi (Toshiba Energy System, Solutions Corporation); IOKA, Shigeru (Toshiba Energy System, Solutions Corporation)

18:30 - 20:30 4F 409+410

THU-OR5-501 Superconducting Rotating Machine, Levitation and Flywheel

Session Moderators: Taketsune Nakamura, Kyoto University and Mark Ainslie, University of Cambridge

18:30 **THU-OR5-501-01: [Invited] Experimental and theoretical study on power generation characteristics of 1 kW class fully high-temperature superconducting induction/synchronous generator using a stator winding with a bending diameter of 20 mm**
NAKAMURA, Taketsune (Kyoto University); DONG, Tenghui (Kyoto University); MATSUURA, Jun (Kyoto University); KISS, Takanobu (Kyushu University); HIGASHIKAWA, Kohei (Kyushu University)

18:45 **THU-OR5-501-02: Performance analysis and evaluation of a hundred-kW HTS dynamic synchronous condenser prototype**
SONG, Peng (the State Key Laboratory of Tribology, Department of Mechanical Engineering, Tsinghua University); WU, Qihong (Tsinghua University); SHI, Zhengjun (the Electric Power Research Institute, Guangdong Power Grid Corporation); LI, Guang (Shanghai Electric Machinery Company, Ltd.); TAN, Jun (State Key Laboratory of Infrared

Physics, Shanghai Institute of Technical Physics, Chinese Academy of Sciences); QU, Timing (the State Key Laboratory of Tribology, Department of Mechanical Engineering, Tsinghua University); YAN, Yufan (the State Key Laboratory of Tribology, Department of Mechanical Engineering, Tsinghua University)

19:00 **THU-OR5-501-03: A Numerical and Experimental Study on Dynamic Operation of a Synchronous Rotating Machine with NI HTS Field Windings**
BONG, Uijong (Seoul National University); YOON, Jonghoon (Seoul National University); AN, Soobin (Seoul National University); KIM, Jaemin (Seoul National University); KIM, Rae-Eun (Seoul National University); KIM, Sung-Kyu (Korea Electrotechnology Research Institute); MUN, Jeongmin (Changwon National University); HAN, Jinwoo (Korea Polytechnic University); KIM, Seokho (Changwon National University); KIM, Wooseok (Korea Polytechnic University); AHN, Minchul (Kunsan National University); CHOI, Seyong (Kangwon National University); SOHN, Myung-Hwan (Korea Electrotechnology Research Institute); HA, Hong-Su (Korea Electrotechnology Research Institute); HAHN, Seungyong (Seoul National University)

19:15 **THU-OR5-501-04: Methods of Estimating AC Losses in Multi-filamentary Superconducting Windings with Spatial and Time Harmonics**
BALACHANDRAN, Thanatheepan (University of Illinois at Urbana Chamapign); SALK, Noah (Hinetics LLC); SUMPTION, Mike (The Ohio State University); HARAN, Kiruba (University of Illinois)

19:30 **THU-OR5-501-05: T-A Formulation for Modelling and AC Loss Reduction Studies in a Superconducting Synchronous Generator for a 10 MW Wind Turbine**
VARGAS-LLANOS, Carlos Roberto (Karlsruhe Institute of Technology); LENGSFELD, Sebastian (Fraunhofer Institute for Energy Economics and Energy System Technology); GRILLI, Francesco (Karlsruhe Institute of Technology)

19:45 **THU-OR5-501-06: Development of the braking and acceleration method for the superconducting magnetic levitation transport system**
POKROVSKII, Sergei; IRINA, Anishcenko (NRNU MEPHI); OSIPOV, Maxim (NRNU MEPhI); STARIKOVSKII, Alexandr (National Research Nuclear University MEPhI); ABIN, Dmitry (National Research Nuclear University MEPhI (Moscow Engineering Physics Institute)); BATULIN, Ruslan (Kazan Federal University); RUDNEV, Igor (National Research Nuclear University MEPhI (Moscow Engineering Physics Institute))

20:00 **THU-OR5-501-07: A High-Speed Maglev Test Rig Designed for HTS Pining Levitation and Electrodynamic Levitation**
DENG, Zigang (Southwest Jiaotong University); ZHANG, Weihua (Southwest Jiaotong University); KOU, Long (Southwest Jiaotong University); CHENG, Yanxing (Southwest Jiaotong University); HUANG, Huan (Southwest Jiaotong University); WANG, Li (Southwest Jiaotong University); KE, Zhihao (Southwest Jiaotong University); MA, Qiwen (Southwest Jiaotong University)

20:15 **THU-OR5-501-08: Research on HTS flywheel energy storage system in China**
ZHANG, Guomin (Key Laboratory of Applied Superconductivity, Chinese Academy of Sciences; Institute of Electrical Engineering, Chinese Academy of Sciences; University of

Chinese Academy of Sciences)

18:30 - 20:30 4F 413+414

THU-OR5-601 A15-type Superconducting Wires and Cables

Session Moderators: Nobuya Banno, NIMS and Tsuyoshi Yagai, Sophia University

18:30 **THU-OR5-601-01: Improving critical current in ternary APC Nb3Sn superconductors by using internal oxidation method**
PENG, Xuan (Hyper Tech Research Inc.); XU, Xingchen (Fermi National Accelerator Lab); ROCHESTER, JACOB (The Ohio State University); SUMPTION, Mike (The Ohio State University); RINDFLEISCH, Matt (Hyper Tech Research); TOMSIC, Michael (Hyper Tech Research Inc.)

18:45 **THU-OR5-601-02: Multiphysics study of phase transformations in Nb3Sn strands during Heat Treatment**
GORYNIN, Arsenii (Universite Paris-Saclay (FR)); ABDEL HAFIZ, Mahmoud (Universite Paris-Saclay (FR)); ROCHEPAULT, Etienne (Universite Paris-Saclay (FR)); HUBERT, Olivier (Laboratoire de Mecanique et Technologie); LAVERNHE-TAILLARD, Karine (Laboratoire de Mecanique et Technologie); LORIN, Clement (Universite Paris-Saclay (FR)); FELICE, Helene (CERN)

19:00 **THU-OR5-601-03: Jelly-Roll Processed Nb3Al Super-Fine Monofilament Wires with Cu/non-Cu Ratio of 1.0**
KIKUCHI, Akihiro (National Institute for Materials Science); IIJIMA, Yasuo (NIMS); YAMAMOTO, Masaru (Meiko Futaba Co. Ltd.); KAWANO, Masatoshi (Meiko Futaba Co. Ltd.); IMANI, Junya (Yuki Precision Co. Ltd.); ICHINOSE, Ataru (Central Research Institute of Electrical Power Industry)

19:15 **THU-OR5-601-04: Root Cause of the Strain Irreversibility Cliff in RRP® Nb3Sn Wires**
CHEGGOUR, Najib (Florida State University); LEE, Peter (Florida State University); OSAMURA, Kozo (Research Institute for Applied Science); KAWASAKI, Takuro (Neutron Science Section, J-PARC Center, JAEA); MACHIYA, Shutaro (Department of Mechanical Engineering, Daido University); WILSON, James (Florida State University); HARJO, Stefanus (Neutron Science Section, J-PARC Center, JAEA,)

19:30 **THU-OR5-601-05: Dimensional Changes Measurement of Nb3Sn Cables and Strands during Heat Treatment Using Digital Image Correlation**
ABDEL HAFIZ, Mahmoud (Universite Paris-Saclay); ROCHEPAULT, Etienne (Universite Paris-Saclay (FR)); FELICE, Helene (CERN); LORIN, Clement (Universite Paris-Saclay (FR)); LAVERNHE-TAILLARD, Karine (Laboratoire de Mecanique et Technologie); HUBERT, Olivier (Laboratoire de Mecanique et Technologie)

19:45 **THU-OR5-601-06: DC and AC characterization of a Low-Field Nb3Sn prototype conductor for a DEMO TF Coil**
FIAMOZZI ZIGNANI, Chiarasole (ENEA); MUZZI, Luigi (ENEA); DE MARZI, Gianluca (ENEA); CORATO, Valentina (ENEA); DELLA CORTE, Antonio (Enea); RIGHETTI, Riccardo (ICAS); FORMICHETTI, Andrea (ICAS); BRUZZONE, Pierluigi (EPFL-SPC); SEDLAK, Kamil (EPFL Lausanne); FRITTITTA, Chiara (EPFL); KUMAR, Mithlesh (PSI Paul Scherrer Institut)

20:00 **THU-OR5-601-07: Measurements of AC loss evolution in ITER TF Conductors**
SEDLAK, Kamil (EPFL-SPC Lausanne); BRUZZONE, Pierluigi (EPFL-SPC); MITCHELL, Neil; TRONZA, Vladimir (ITER Organization)

20:15 **THU-OR5-601-08: Presentation withdrawn**

On-line 7:00 - 8:00, On-site 10:00 - 12:00, On-line 21:00 - 22:00

2F Multipurpose Hall

THU-PO3-108 Accelerator Magnets VI: LTS

Session Moderator: Naoyuki Sumi, KEK

THU-PO3-108-01: DCT&CCT superconducting multiplets for HIAF-HFRS
MEI, Enming (IMPCAS); WU, Wei (Institute of Modern Physics, Chinese Academy of Sciences); YOU, wei (Institute of Modern Physics, Chinese Academy of Sciences); LIANG, Yu (Institute of Modern Physics,Chinese Academy of Sicences); OU, Xianjin; CHEN, Yuquan; WANG, Xudong ((Institute of Modern Physics, Chinese Academy of Sciences); ZHU, li; ZHANG, jingjing (IMPCAS); ZHANG, Xiang (Institute of Modern Physics, Chinese Academy of Sciences); ZHENG, shijun (Institute of Modern Physics, Chinese Academy of Sciences); TONG, Yujin (Institute of Modern Physics, Chinese Academy of Sciences); NI, Dongsheng (Institute of Modern Physics Chinese Academy of Sciences); YANG, Yanbing (IMPCAS); WANG, Lishi (Institute of Modern Physics, Chinese Academy of Sciences); SUN, Liangting (Institute of Modern Physics, CAS); YAO, Qinggao (Institute of Modern Physics, Chinese Academy Sciences); YANG, Wenjie (Institute of modern physics, Chinese academy of sciences)

THU-PO3-108-02: Design and Test of a half-aperture Canted-Cosine-Theta multipole Prototype Magnet For the HIAF Fragment Separator
LIANG, Yu (Institute of Modern Physics,Chinese Academy of Sicences); WU, Wei; MEI, Enming; YOU, Wei; LU, Jiaqi; OU, Xianjin; YAO, Qinggao; MA, Lizhen

THU-PO3-108-03: Designing and Manufacturing of the Fully Configured Multiplet for the Super-FRS at FAIR
CHO, Eun Jung (GSI); MUELLER, Hans Guenter (GSI Helmholtzzentrum fur Schwerionenforschung GmbH (DE)); MICHELS, Matthias (GSI Helmholtzzentrum fur Schwerionenforschung); VELONAS, Vasileios (GSI Helmholtzzentrum fur Schwerionenforschung); WINKLER, Martin (GSI); SUGITA, Kei (GSI); ROUX, Christian-Eric (GSI); VALESI, Giovanni (ASG superconductors SpA); DIEGO, Ventura (asg); DRAGO, Giovanni (ASG Superconductors)

THU-PO3-108-04: Magnetic Design of the EIC IR Cable Magnets
GUPTA, Ramesh (BNL); AMM, Kathleen; ANERELLA, Michael (Brookhaven National Laboratory); BEN YAHIA, Anis (Brookhaven National Laboratory); AVRONSART, Julien (Brookhaven National Laboratory); PARKER, Brett (Brookhaven National Laboratory (US)); WITTE, Holger (Brookhaven National Laboratory)

THU-PO3-108-05: Shell-based support structure for the 45 GHz ECR Ion Source MARS-D
JUCHNO, Mariusz (LBNL); HODGKINSON, Adrian (Lawrence Berkeley National Laboratory); TODD, Damon (LBNL); XIE, Daniel (Lawrence Berkeley National Laboratory); BENITEZ, Janilee (LBNL); DOYLE, Jennifer (LBNL); PHAIR, Larry (LBNL); WANG, Li (Lawrence Berkeley National Laboratory); COVO, Michel Kireeff (LBNL); LOEW, Tim (LBNL)

THU-PO3-108-07: Study on Conduction Cooling of Superconducting Magnets for the ILC Main Linac
SHIMIZU, Hirotaka (KEK); ARIMOTO, Yasushi (KEK); ZONG, Zhanguo (KEK); OHUCHI, norihito (KEK); UMEMORI, Kensei (KEK); KIMURA, Nobuhiro (HIGH ENERGY ACCELERATOR RESEARCH ORGANIZATION, KEK); YAMAMOTO, Akira (KEK); KASHIKHIN, VLADIMIR (Fermilab)

THU-PO3-108-08: Presentation withdrawn

On-line 7:00 - 8:00, On-site 10:00 - 12:00, On-line 21:00 - 22:00

2F Multipurpose Hall

THU-PO3-109 Accelerator Magnets VI: model analysis, impregnation

Session Moderator: Naoyuki Sumi, KEK

THU-PO3-109-01: Presentation withdrawn

THU-PO3-109-02: A preliminary study on a new epoxy resin system IR-3 for the high-field HTS applications
YAO, Huanli (Institute of High Energy Physics, Chinese Academy of Sciences) ; ZHANG, Zhen (Institute of High Energy Physics, Chinese Academy of Sciences); WANG, Yingzhe (IHEP); WANG, Chengtao (Institute of High Energy Physics, University of Chinese Academy of Sciences); FENG, Ze (Institute of High Energy Physics, Chinese Academy of Sciences); ZHOU, Jin (Institute of High Energy Physics, Chinese Academy of Sciences); CHEN, Xin (Institute of High Energy Physics, Chinese Academy of Sciences); ZHANG, Hua (Institute of Physics and Chemistry, Chinese Academy of Sciences); SHI, Jinrui (Institute of High Energy Physics, Chinese Academy of Sciences); WANG, Juan (IHEP); LI, Chunyan (Institute of High Energy Physics, Chinese Academy of Sciences); KANG, Rui (Institute of High Energy Physics, CAS); NING, Feipeng (Institute of High Energy Physics, Chinese Academy of Sciences); HUANG, Rongjin (Institute of Physics and Chemistry); XU, Qingjin (IHEP)

THU-PO3-109-03: Dipole magnets wound using YBCO cables - FEM stability issues modeling
MAJOROS, Milan (The Ohio State University); SUMPTION, Mike (The Ohio State University);

COLLINGS, Edward (The Ohio State University)

THU-PO3-109-04: Introduction and results of the Bonding Experiments (BOX).
DALY, Michael (PSI Paul Scherrer Institute); AUCHMANN, Bernhard (PSI Paul Scherrer Institute); HUG, Christoph (PSI Paul Scherrer Institute); SIDOROV, Serguei (PSI Paul Scherrer Institute); KARIO, Anna (University of Twente); DHALLÉ, Marc (University of Twente); OTTEN, Simon; TEN KATE, Herman

THU-PO3-109-05: Mechanical characterization of Glass Fiber Reinforced Polymers (GFRP) and resins submitted to ionizing radiations for future accelerator application
MUSSO, Andrea (CERN); NAKAMOTO, Tatsushi (KEK); SUGANO, Michinaka; DEL VALLE GRANDE, Beatriz (RUAG Slip Rings SA); TAVARES, Sandra (CFF SA); SOUSA, Daniela (TecnoVeritas); MARRACO BORDERAS, Cinta Lucia; MEYER, Mickael Sebastien (CERN)

THU-PO3-109-06: Quench Antenna Investigation of Mechanical and Magnetic disturbances in Nb3Sn CCT Subscale Magnets
MARCHEVSKY, Maxim; TEYBER, Reed (Lawrence Berkeley National Laboratory); ARBELAEZ, Diego (Lawrence Berkeley National Laboratory); PRESTEMON, Soren

On-line 7:00 - 8:00, On-site 10:00 - 12:00, On-line 21:00 - 22:00

2F Multipurpose Hall

THU-PO3-112 HL-LHC Accelerator Magnets II: Nb3Sn

Session Moderator: Kento Suzuki, KEK

THU-PO3-112-01: An examination of the mechanical performance of the 4.5 m long MQXFA Pre-Series magnets for the Hi-Lumi LHC Upgrade
CHENG, Daniel; AMBROSIO, Giorgio (Fermilab); DIMARCO, Joseph (Fermilab); FERRACIN, Paolo; MURATORE, Joseph F (Brookhaven National Laboratory); PAN, Heng (LBNL); PRESTEMON, Soren; RAY, Katherine (Lawrence Berkeley National Laboratory); SABBI, GianLuca (LBNL); SOLIS, Michael (Lawrence Berkeley National Lab); VALLONE, Giorgio (Lawrence Berkeley National Lab. (US)); WANG, Xiaorong (Lawrence Berkeley National Laboratory)

THU-PO3-112-02: Design of the Fermilab Pre-Series Cold Mass for the HL-LHC Accelerator Upgrade Project
BOSSERT, Rodger (Fermi National Accelerator Laboratory); OROZCO, Charles (Fermi National Accelerator Laboratory); ARNOLD, Don (Fermi National Accelerator Laboatory); FEHER, Sandor (FNAL); MARTIN, Luke (Fermi National Accelerator Laboratory); NARUG, Colin (Fermi National Accelerator Laboratory); NIKOLIC, Vladimir (Fermi National Accelerator Laboratory); RABEHL, Roger Jon (Fermi National Accelerator Lab. (US)); ROBOTHAM, William (Fermi National Accelerator Laboratory); STRAUSS, Thomas (FNAL); VOURIS, Antonios (Fermilab)

THU-PO3-112-03: Fabrication of the Fermilab Pre-Series Cold Mass for the HL-LHC Accelerator Upgrade Project
VOURIS, Antonios (Fermilab); BOSSERT, Rodger (Fermi National Accelerator Laboratory); DIMARCO,

Joseph (Fermilab); FEHER, Sandor (FNAL); MARTIN, Luke (FNAL); STRAUSS, Thomas (FNAL); WILSON, Charles (FNAL); PRIN, Herve (CERN); TODESCO, Ezio (CERN)

THU-PO3-112-04: Fermilab's Horizontal Test Stand Upgrade Overview and Commissioning
CHLACHIDZE, Guram (Fermilab); FEHER, Sandor (FNAL); ORRIS, Darryl (Fermi National Accelerator Laboratory); RABEHL, Roger Jon (Fermi National Accelerator Lab. (US)); TARTAGLIA, Michael (Fermi National Accelerator Laboratory); NIKOLIC, Vladica (Fermi National Accelerator Laboratory); STOYNEV, Stoyan (Fermilab)

THU-PO3-112-05: Results of Magnetic Measurements and Alignment of First Pre-series AUP Cryo-Assemblies at Fermilab
DIMARCO, Joseph (Fermilab); AKELLA, Padma (Fermilab); AMBROSIO, Giorgio (Fermilab); BALDINI, Maria; CHLACHIDZE, Guram (Fermilab); FEHER, Sandor (FNAL); NOGIEC, Jerzy (Fermilab); NIKOLIC, Vladica (Fermi National Accelerator Laboratory); STOYNEV, Stoyan (Fermilab); STRAUSS, Thomas (FNAL); TARTAGLIA, Michael (Fermi National Accelerator Laboratory); THOMPSON, Peter (Fermilab); WALBRIDGE, Dana (Fermilab); WILSON, Charles (FNAL)

THU-PO3-112-06: Superconducting coil stress specifications for the series production of the Nb3Sn MQXFA quadrupole magnets for the HL-LHC
FERRACIN, Paolo (LBNL); AMBROSIO, Giorgio (Fermilab); CHENG, Daniel; FERRADAS TROITINO, Jose (CERN); IZQUIERDO BERMUDEZ, Susana (CERN); PAN, Heng (LBNL); PRESTEMON, Soren; RAY, Katherine (Lawrence Berkeley National Laboratory); SOLIS, Michael (Lawrence Berkeley National Lab); TAKALA, Eelis Tapani (CERN); TODESCO, Ezio (CERN); VALLONE, Giorgio (Lawrence Berkeley National Lab. (US))

THU-PO3-112-07: US-HiLumi Accelerator Upgrade Project Pre-series Cryo-Assembly 01 Production and First Results
STRAUSS, Thomas (FNAL); BOSSERT, Rodger (Fermi National Accelerator Laboratory); DIMARCO, Joseph (Fermilab); DUARTE RAMOS, Delio (CERN); FEHER, Sandor (FNAL); MARTIN, Luke (FNAL); PARKER, Marcellus (FNAL); PRIN, Herve (CERN); RABEHL, Roger Jon (Fermi National Accelerator Lab. (US)); TODESCO, Ezio (CERN); VOURIS, Antonios (Fermilab); WILSON, Charles (FNAL)

On-line 7:00 - 8:00, On-site 10:00 - 12:00, On-line 21:00 - 22:00

2F Multipurpose Hall

THU-PO3-117 Resistive acclerator magnets II

Session Moderator: Kento Suzuki, KEK

THU-PO3-117-01: Coupling Design of Focusing Function Bending Magnet and High Current Electron Beam for 100 kW Irradiation Accelerator
GUAN, Leilei (China Institute of Atomic Energy); LI, Ming (China Institute of Atomic Energy); WANG, Fei (China Institute of Atomic Energy); WEI, Sumin (China Institute of Atomic Energy); PEI, Shilun (Institute of High Energy Physics); AN, Shizhong (China Institute of Atomic Energy); YIN, Zhiguo (China

Institute of Atomic Energy); ZHANG, Tianjue (China Institute of Atomic Energy)

THU-PO3-117-02: Design and field performance of the octupole magnet with skew quadrupole component in HEPS
YANG, Mei (IHEP, CAS); CHEN, Fusan (IHEP, CAS); XU, Yuandi (IHEP); ZHU, Yingshun (IHEP, CAS); WU, Yafeng (IHEP, CAS); ZHANG, Zhuo (IHEP, CAS); YIN, Baogui (IHEP, CAS)

THU-PO3-117-03: Development of magnetic system for bending electron beam in industrial accelerator ILU-10
PAVLIUCHENKO, Vadim (Budker Institute of Nuclear Physics of Siberian Branch Russian); STAROSTENKO, Alexandr (BINP); BRYAZGIN, Alexandr (BINP)

THU-PO3-117-04: Evaluation of eddy currents dependent on excitation pattern in design of pulse electromagnets.
TAKAYANAGI, Tomohiro (JAEA/J-PARC); UENO, Tomoaki (JAEA/J-PARC); HORINO, Koki (JAEA/J-PARC); ONO, Ayato (JAEA/J-PARC); YAMAMOTO, Kazami (JAEA/J-PARC); KINSHO, Michikazu (JAEA/J-PARC)

THU-PO3-117-05: Magnet Design of the Electron Cooling System for HIAF
ZHAO, LIXIA (the Institute of Modern Physics,CAS); CHEN, Yuquan; YAO, Qinggao (Institute of Modern Physics, Chinese Academy Sciences); ZHANG, Xiang (Institute of Modern Physics, Chinese Academy of Sciences); MA, Lizhen (Institute of Modern Physics, Chinese Academy of Sciences); LV, Mingbang; TANG, Meitang

THU-PO3-117-06: Magnet development for the BESSYIII multi bend achromat
VOLKER, Jens (Helmholtz-Zentrum Berlin (HZB)); GOSLAWSKI, Paul (Helmholtz-Zentrum Berlin (HZB)); JANKOWIAK, Andreas (Helmholtz-Zentrum Berlin); SCHNIZER, Pierre (Helmholtz-Zentrum Berlin)

THU-PO3-117-07: Magnetic Designs of New First Target Beamline Magnets for the ORNL SNS Upgrade
KASHIKHIN, VLADIMIR (Fermilab); AMANN, John (Fermilab); EVANS, Nicholas (Oak Ridge National Laboratory); HARDING, David (Fermilab); HOLMES, Jeffrey (Oak Ridge National Laboratory); PLUM, Michael (ORNL); POMELLA, David (ORNL)

THU-PO3-117-08: [Invited] Magnets for low Emittance Machines: An Overview
SCHNIZER, Pierre

On-line 7:00 - 8:00, On-site 10:00 - 12:00, On-line 21:00 - 22:00

2F Multipurpose Hall

THU-PO3-205 Fusion V: Toward DEMO

Session Moderator: Hiroyasu Utoh, QST

THU-PO3-205-01: A 3D electromagnetic model for eddy currents analysis in superconducting magnets for fusion applications

BONIFETTO, Roberto (Politecnico di Torino); DE BASTIANI, Marco (Politecnico di Torino); ZANINO, Roberto (Politecnico di Torino); ZAPPATORE, Andrea (Politecnico di Torino)

THU-PO3-205-02: A top-down modeling approach for DEMO magnetic system
BOSO, Daniela (University of Padova); GIANNINI, Lorenzo (ENEA); CORATO, Valentina (ENEA)

THU-PO3-205-03: Comparative electromechanical study of different Nb3Sn CICC designs for tokamaks with FE simulations
RICCIOLI, Rebecca (CEA); TORRE, Alexandre (CEA); DURVILLE, Damien (Paris-Saclay University); BRESCHI, Marco (Universita e INFN, Bologna (IT)); LEBON, Frédéric (Aix-Marseille University)

THU-PO3-205-04: Conceptual design of CRAFT TF coil heat treatment
WANG, Weijun (Institute of Plasma Physics Chinese Academy of Sciences); YU, Min (Institute of Plasma Physics Chinese Academy of Sciences)

THU-PO3-205-05: DEMO fusion reactor Toroidal Field coil optimized layer-wound design
TOMASSETTI, Giordano (ENEA); GIORGETTI, Francesco (Universita Tuscia); DE MARZI, Gianluca (INFN e Laboratori Nazionali di Frascati (IT)); ROMANELLI, Gherardo (ENEA); FIAMOZZI ZIGNANI, Chiarasole (ENEA); MUZZI, Luigi (ENEA); CORATO, Valentina (ENEA); DELLA CORTE, Antonio (Enea)

THU-PO3-205-06: Design of Quench Protection System for K-DEMO TF Magnet
CHU, yong

THU-PO3-205-07: Engineering the main structures of the DEMO fusion reactor magnet system
GIANNINI, Lorenzo (ENEA); ROMANELLI, Gherardo (ENEA); ZOBOLI, Lorenzo (ENEA); MUZZI, Luigi (ENEA); DELLA CORTE, Antonio (Enea); TURTU', Simonetta (ENEA/ICAS); CORATO, Valentina (ENEA); BOSO, Daniela (University of Padova); BRUZZONE, Pierluigi (EPFL-SPC); SEDLAK, Kamil (EPFL Lausanne); ZANI, Louis (CEA)

THU-PO3-205-08: Heat Treatment Optimization on Nb3Sn Strands Based on Electrical and Physical Properties
DEMATTE, Federica (EPFL-SPC); BRUZZONE, Pierluigi (EPFL-SPC); SARASOLA, Xabier (EPFL-SPC); DE MARZI, Gianluca (ENEA); MUZZI, Luigi (ENEA); RODRIGUEZ CASTRO, Enrique (CERN); SGOBBA, Stefano (CERN)

THU-PO3-205-10: Novel magnetic systems for high power microwave sources – challenges and prospects
GLYAVIN, Mikhail (IAP RAS); PROYAVIN, Mikhail (IAP RAS); TAI, Evgheniy (GYCOM Ltd.)

THU-PO3-205-11: Preliminary Design of a High Current R&W TF Coil Conductor for the EU DEMO
DEMATTE, Federica (EPFL-SPC); BRUZZONE, Pierluigi (EPFL-SPC); SARASOLA, Xabier (EPFL-SPC); SEDLAK, Kamil (EPFL-SPC); CORATO, Valentina (ENEA)

THU-PO3-205-12: Seismic analysis of magnet systems in helical fusion reactors designed with topology optimization

TAMURA, Hitoshi (National Institute for Fusion Science); GOTO, Takuya (National Institute for Fusion Science); MIYAZAWA, Junichi (National Institute for Fusion Science); TANAKA, Teruya (National Institute for Fusion Science); YANAGI, Nagato (National Institute for Fusion Science)

THU-PO3-205-13: Thermal Hydraulic Analysis of Toroidal Field Coil of CFETR

LI, Junjun (Institute of Plasma Physics, Chinese Academy of Sciences); WEN, Xinghao (University of Science and Technology of China); SANG, Aiguo (Institute of Plasma Physics, Chinese Academy of Sciences); REN, Yong (Institute of Plasma Physics, Chinese Academy of Sciences); LIU, Xiaogang (Institute of Plasma Physics, Chinese Academy of Sciences); HAO, Qiangwang (Institute of Plasma Physics, Chinese Academy of Sciences); WU, Yu (Institute of Plasma Physics, Chinese Academy of Sciences); GAO, Xiang (Institute of Plasma Physics, Chinese Academy of Sciences)

THU-PO3-205-14: Thermal-hydraulic and quench analysis of EUROfusion DEMO PF coils

KUMAR, Mithlesh (Ecole Polytechnique Federale de Lausanne (EPFL), Swiss Plasma Center (SPC)); SEDLAK, Kamil (Ecole Polytechnique Federale de Lausanne (EPFL), Swiss Plasma Center (SPC))

THU-PO3-205-15: UPDATES ON CEA DESIGN AND EXPERIMENTAL ACTIVITIES ON EU DEMO TF

ZANI, Louis (CEA); BONNE, Francois (CEA); CORATO, Valentina (ENEA); LE COZ, Quentin (Assystem); HOA, Christine (CEA SBT); LACROIX, Benoit (CEA); MISIARA, Nicolas (CEA); NICOLLET, Sylvie (CEA); NUNIO, Francois (CEA); QIN, Jinggang (ASIPP); SEDLAK, Kamil (EPFL Lausanne); STEPANOV, Boris (EPFL-SPC); TORRE, Alexandre (CEA); VALLCORBA, Roser (CEA Saclay); WU, Yu (ASIPP); ZHANG, Yongliang (ASIPP)

On-line 7:00 - 8:00, On-site 10:00 - 12:00, On-line 21:00 - 22:00

2F Multipurpose Hall

THU-PO3-206 Fusion VI: JT-60SA, DTT and Other Devices

Session Moderator: Hiroyasu Utoh, QST

THU-PO3-206-01: AC losses in JT-60SA magnets during commissioning: experimental analysis and simulations

LOUZGUITI, Alexandre (CEA French Alternative Energies and Atomic Energy Com); LACROIX, Benoit (CEA); LE COZ, Quentin (CEA); NICOLLET, Sylvie (CEA); TORRE, Alexandre (CEA); ZANI, Louis (CEA Cadarache IRFM); TOMARCHIO, Valerio (Fusion For Energy (F4E)); DAVIS, Sam (Fusion for Energy); SANNAZZARO, Giulio (Fusion for Energy); HAMADA, Kazuya (National Institutes for Quantum and Radiological Science and Technology); FUKUI, Kazuma (National Institutes for Quantum and Radiological Science and Technology); MURAKAMI, Haruyuki (National Institutes for Quantum and Radiological Science and Technology)

THU-PO3-206-02: Analysis of the thermal-hydraulic effects of a plasma disruption on the DTT magnet system

BONIFETTO, Roberto (Politecnico di Torino); DI ZENOBIO, Aldo (ENEA, 00044 Frascati, Italy); MUZZI, Luigi (ENEA, 00044 Frascati, Italy); TURTU', Simonetta (ENEA, 00044 Frascati, Italy); ZANINO, Roberto

(Politecnico di Torino); ZAPPATORE, Andrea (Politecnico di Torino)

THU-PO3-206-03: Engineering and Structural Assessment for the updated design of the DTT Central Solenoid
GIANNINI, Lorenzo (ENEA); MUZZI, Luigi (ENEA); DELLA CORTE, Antonio (Enea); ROMANELLI, Gherardo (ENEA); ZOBOLI, Lorenzo (ENEA); TURTU', Simonetta (ENEA/ICAS); CORATO, Valentina (ENEA); DI ZENOBIO, Aldo (ENEA); DE MARZI, Gianluca (ENEA, 00044 Frascati, Italy)

THU-PO3-206-04: Estimation of the Cool-Down Speed under the SHe inlet condition in JT-60SA CS module
SONODA, Shogo (Sophia university); NAKAMURA, Kazuya (Sophia University); HIROSE, Yuta (Sophia University); NATSUME, Kyohei (QST); FUKUI, Kazuma (National Institutes for Quantum and Radiological Science and Technology); MURAKAMI, Haruyuki (National Institutes for Quantum and Radiological Science and Technology); HAMADA, Kazuya (National Institutes for Quantum and Radiological Science and Technology)

THU-PO3-206-05: Evaluation of the thermal performance of the SC Feeders for the magnetic system of the Divertor Tokamak Test facility
PLACIDO, Daniele (MAHTEP Group, Dipartimento Energia "Galileo Ferraris", Politecnico di Torino); DI ZENOBIO, Aldo (ENEA); DE MARZI, Gianluca (ENEA, 00044 Frascati, Italy); RAMOGIDA, Giuseppe (ENEA Frascati, DTT Scarl); SAVOLDI, Laura (MAHTEP Group, Dipartimento Energia "Galileo Ferraris, Politecnico di Torino); VIARENGO, Sofia (MAHTEP Group, Dipartimento Energia "Galileo Ferraris", Politecnico di Torino,)

THU-PO3-206-06: Presentation withdrawn

THU-PO3-206-07: Investigation of Transient Response caused by Power Supply on JT-60SA Central Solenoid
SONODA, Shogo (Sophia university); NAKAMURA, Kazuya (Sophia University); HIROSE, Yuta (Sophia University); MURAKAMI, Haruyuki (National Institutes for Quantum and Radiological Science and Technology); HAMADA, Kazuya (National Institutes for Quantum and Radiological Science and Technology); HATAKEYAMA, Shoichi (National Institutes for Quantum and Radiological Science and Technology); TAKAHASHI , Koji (National Institutes for Quantum and Radiological Science and Technology)

THU-PO3-206-08: JT-60SA TFC02 COMPLEMENTARY QUENCH TESTS IN CTF: THERMOHYDRAULICAL ANALYSIS AND SMOOTH QUENCH CRITICALITY
GORIT, Quentin (CEA); NICOLLET, Sylvie (CEA); LACROIX, Benoit (CEA); LOUZGUITI, Alexandre (CEA); TORRE, Alexandre (CEA); ZANI, Louis (CEA); ABDEL MAKSOUD, Walid (CEA); VALLCORBA, Roser (CEA Saclay); BONNE, Francois (CEA); HOA, Christine (CEA SBT)

THU-PO3-206-09: Numerical analysis on transient stability of large helical device conductor
OHYA, MASAYOSHI (Kwansei Gakuin University)

THU-PO3-206-10: Preliminary structural analysis of the DTT current feeders conductors and clamps
GIORGETTI, Francesco (University of Tuscia); DE MARZI, Gianluca (ENEA Frascati Research Center);

GIUSEPPE, Calabro (University of Tuscia, Department of Economy, Engineering, Society and Business Organization (DEIM)); DELLA CORTE, Antonio (Enea); DI ZENOBIO, Aldo (ENEA); FANELLI, Pierluigi (University of Tuscia, Department of Economy, Engineering, Society and Business Organization (DEIM)); GIANNINI, Lorenzo (ENEA); MERCURI, Alessandro (University of Tuscia, Department of Economy, Engineering, Society and Business Organization (DEIM)); MUZZI, Luigi (ENEA); TOMASSETTI, Giordano (ENEA)

THU-PO3-206-11: The pressure drop measurement of JT-60SA superconducting magnets
FUKUI, Kazuma (National Institutes for Quantum and Radiological Science and Technology); HAMADA, Kazuya (National Institutes for Quantum and Radiological Science and Technology); NATSUME, Kyohei (QST); MURAKAMI, Haruyuki (National Institutes for Quantum and Radiological Science and Technology); KAWANO, Katsumi (National Institutes for Quantum and Radiological Science and Technology); OHTSU, Kiichi (National Institutes for Quantum and Radiological Science and Technology); ABE, Taichi (National Institutes for Quantum and Radiological Science and Technology)

THU-PO3-206-12: Thermal Analysis of Toroidal Field Coil of EAST During Plasma Discharges
WEN, Xinghao (University of Science and Technology of China); LI, Jun jun (Institute of Plasma Physics, Chinese Academy of Sciences); SANG, Aiguo (Institute of Plasma Physics, Chinese Academy of Sciences)

THU-PO3-206-13: Updated structural assessment of the Poloidal Field Coils of the DTT tokamak
ZOBOLI, Lorenzo (University of Rome "Tor Vergata", Dept. of Civil Engineering and Computer Science); ANEMONA, Alessandro (ENEA); DI ZENOBIO, Aldo (ENEA); GIANNINI, Lorenzo (ENEA); MUZZI, Luigi (ENEA); ROMANELLI, Gherardo (ENEA); TURTU', Simonetta (ENEA/ICAS); DELLA CORTE, Antonio (Enea); VAIRO, Giuseppe (University of Rome "Tor Vergata", Dept. of Civil Engineering and Computer Science)

On-line 7:00 - 8:00, On-site 10:00 - 12:00, On-line 21:00 - 22:00

2F Multipurpose Hall

THU-PO3-404 Magnets for MRI

Session Moderator: Hideaki Miura, Mitsubishi Electric Co.

THU-PO3-404-01: Analysis of Radial Preload of 14 T MRI Magnet
WU, Junrong (Institute of Plasma Physics, Chinese Academy of Sciences); WU, Yu (Institute of Plasma Physics Chinese Academy of Sciences); SHI, Yi (Institute of Plasma Physics Chinese Academy of Sciences); HAN, Houxiang (Institute of Plasma Physics Chinese Academy of Sciences); XU, Aihua (Changzhou Vocational Institute of Mechatronic Technology)

THU-PO3-404-02: A NbTi persistent current switch for MRI superconducting magnet
DAI, Tianli (Institute of Plasma Physics, Chinese Academy of Sciences); QIN, Jinggang; LI, Jiangang (Institute of Plasma Physics Chinese Academy of Sciences); ZHOU, Chao (Institute of Plasma Physics, Chinese Academy of Sciences)

THU-PO3-404-03: An Improved Passive Shimming Strategy for the Unsaturated Magnetization Problem in the Low-field Superconducting MRI Magnet
QU, Hongyi (Institute of Electrical Engineering, Chinese Academy of Sciences and Ganjiang Innovation Academy, Chinese Academy of Sciences); WANG, Hui (Institute of Electrical Engineering, Chinese Academy of Sciences); WANG, Cong (Institute of Electrical Engineering, Chinese Academy of Sciences and Ganjiang Innovation Academy, Chinese Academy of Sciences); LIU, Xin (Ganjiang Innovation Academy, Chinese Academy of Sciences and University of Science and Technology of China); XIE, Huang (Ganjiang Innovation Academy, Chinese Academy of Sciences); WANG, Qiuliang (Institute of Electrical Engineering, Chinese Academy of Sciences)

THU-PO3-404-04: Compact MRI
COOMBS, Tim; OZTURK, Yavuz (University of Cambridge); SHEN, Boyang (University of Cambridge); WILLIAMS, rikki (cambridge university); ZHU, jiamin (sstc); LIU, Huajun (Chinese Academy of Sciences)

THU-PO3-404-05: Design of a Cryogen-free 6 T 320 mm All-REBCO MRI Magnet
CHOI, Kibum (Seoul National University); BANG, Jeseok (Seoul National University); LEE, Changhyung (SuperGenics Corporation, Limited); KIM, Jin-Geun (SuperGenics Corporation, Limited); EOM, Beomyong (SuperGenics Corporation, Limited); KIM, Sung-Kyu (Korea Electrotechnology Research Institute); KIM, Geonyoung (Seoul National University); IM, Chaemin (Seoul National University); KIM, Jaemin (Seoul National University); NOH, Hyun Sung (Department of Materials Science and Engineering, Korea University, Seoul,02841, Korea); HWANG, Youngjin (Korea Maritime & Ocean University); SOHN, Myung-Hwan (Korea Electrotechnology Research Institute); AHN, Minchul (Kunsan National University); KIM, Seokho (Changwon National University); LEE, Haigun (Korea University); SIM, Kidoek (SuperGenics Corporation, Limited); HAHN, Seungyong (Seoul National University)

THU-PO3-404-06: Development of superconducting joints between bronze-route Nb3Sn multifilamentary wires for persistent-mode operation
ZHOU, C (Institute of Plasma Physics, Chinese Academy of Sciences); QIN, J. G (Institute of Plasma Physics, Chinese Academy of Sciences); GAO, Peng (Institute of Plasma Physics, Chinese Academy of Sciences); HUANG, W. C. (Department of Electrical Engineering, Tsinghua University); LI, X (Shenzhen institute of advanced technology, Chinese Academy of Sciences); JIANG, X. H (Department of Electrical Engineering, Tsinghua University); SHEN, Z. D (Department of Electrical Engineering, Tsinghua University); LIU, haihong

THU-PO3-404-07: Feasibility study of novel rapid ramp-down procedure in MgB2 MRI magnet using persistent current switch with high off-resistivity
KODAMA, Motomune (Hitachi, Ltd.); KOTAKI, Hiroshi (Hitachi, Ltd.); OHARA, Shinya (Hitachi, Ltd.); ICHIKI, Yota (Hitachi, Ltd.); FUJITA, Shinji (Hitachi, Ltd.); SUZUKI, Takaaki (Hitachi, Ltd.); TANAKA, Hideki (Hitachi, Ltd.); AOKI, Manabu (Hitachi, Ltd.)

THU-PO3-404-08: FEM modeling of superconducting whole body, actively shielded 7 T MRI magnets wound using Nb3Sn strands
MAJOROS, Milan (The Ohio State University); SUMPTION, Mike (The Ohio State University); PENG, Xuan (Hyper Tech Research Inc.); DOLL, David (Hyper Tech Research); TOMSIC, Michael (Hyper Tech Research Inc.); COLLINGS, Edward (The Ohio State University)

THU-PO3-404-09: Modelling and mitigation of quench risk for a NI HTS MRI brain magnet
OLATUNJI, Jamal (Victoria University of Wellington); PARKINSON, Ben (Victoria University of Wellington); BOULOUKAKIS, Konstantinos (Victoria University of Wellington); WEIJERS, Huub (Victoria University of Wellington)

THU-PO3-404-10: Numerical Study of Temperature Distribution within a Conduction-Cooled, MgB2 MRI Coil Segment
ZHANG, Danlu (The Ohio State University); SUMPTION, Mike (The Ohio State University); MAJOROS, Milan (The Ohio State University); COLLINGS, Edward (The Ohio State University); RINDFLEISCH, Matt (Hyper Tech Research); DOLL, David (Hyper Tech Research); TOMSIC, Michael (Hyper Tech Research Inc.)

THU-PO3-404-11: Structure design on the 3-T HTS coil for desktop MRI magnet using the Distributed Genetic Algorithm method.
OSAWA, Yoshihiro (Okayama university); INOUE, Yuta (Okayama university); INOUE, Ryota (Okayama University); UEDA, Hiroshi (Okayama University); KIM, SEOKBEOM (Okayama University)

THU-PO3-404-12: Temperature Dependence of Optimal Shape and DC Current Transport Characteristics of 3T Whole Body REBCO MRI Magnet
NAKAMURA, Taketsune (Kyoto University); YAMADA, Shoko (Kyoto University); KIDO, Yushi (Kyoto University); MATSUDA, Tetsuya (MITSUBISHI ELECTRIC Corp.); MIURA, Hideaki (MITSUBISHI ELECTRIC Corp.); HATTORI, Taisuke (MITSUBISHI ELECTRIC Corp.)

On-line 7:00 - 8:00, On-site 10:00 - 12:00, On-line 21:00 - 22:00

2F Multipurpose Hall

THU-PO3-405 Magnets for NMR

Session Moderator: Hideaki Miura, Mitsubishi Electric Co.

THU-PO3-405-01: A method to reduce the influence of manufacturing error on magnetic field homogeneity in NMR magnets
ZHOU, Benzhe (Institute of Electrical Engineering, Chinese Academy of Sciences); LIU, Jianhua (Institute of Electrical Engineering, Chinese Academy of Sciences); WANG, Yaohui (Institute of Electrical Engineering, Chinese Academy of Sciences); QIN, Lang (Institute of Electrical Engineering, Chinese Academy of Sciences); WANG, Kangshuai (Institute of Electrical Engineering, Chinese Academy of Sciences); WANG, Qiuliang (Institute of Electrical Engineering, Chinese Academy of Sciences)

THU-PO3-405-02: Analysis of electromagnetic characteristics of a novel no-insulation HTS coil with stainless steel tape wrapped around the outer layer of the coil
WANG, Kangshuai (Institute of Electrical Engineering, Chinese Academy of Sciences); DAI, Yinming (Institute of Electrical Engineering, Chinese Academy of Sciences); LIU, Jianhua (Institute of Electrical Engineering, Chinese Academy of Sciences); QIN, Lang (Institute of Electrical Engineering, Chinese Academy of Sciences); ZHOU, Benzhe (Institute of Electrical Engineering, Chinese Academy of

Sciences); WANG, Qiuliang (Institute of Electrical Engineering, Chinese Academy of Sciences)

THU-PO3-405-03: A Validation Study of Updated Features in a New 835-MHz REBCO Insert Coil for the MIT 1.3-GHz NMR Magnet
PARK, Dongkeun (Massachusetts Institute of Technology); BASCUNAN, Juan (Massachusetts Institute of Technology); LEE, Wooseung (Massachusetts Institute of Technology); IWASA, Yukikazu (Massachusetts Institute of Technology)

THU-PO3-405-04: Design, fabrication and test of a 300MHz conduction-cooled NMR superconducting magnet
WANG, Yaohui (Institute of Electrical Engineering, Chinese Academy of Sciences); WANG, Qiuliang (Institute of Electrical Engineering, Chinese Academy of Sciences); WANG, Hui (Institute of Electrical Engineering, Chinese Academy of Sciences); CHEN, Shunzhong (Institute of Electrical Engineering, Chinese Academy of Sciences); LIU, Hui (Institute of Electrical Engineering, Chinese Academy of Sciences); CHENG, Junsheng (Institute of Electrical Engineering, Chinese Academy of Sciences)

THU-PO3-405-05: First NMR Signal Detection on Single-sided Magnetic Pole Surface Containing HTS Bulk Magnet Activated by Pulsed Field
KIKUCHI, Sho (Shibaura Institute of Technology); TAKAHASHI, Masato (RIKEN); INOUE, Natsuki (Shibaura Institute of Technology); SAKAI, Naomichi (Shibaura Institute of Technology); MURAKAMI, Masato (Shibaura Institute of Technology); YOKOYAMA, Kazuya (Ashikaga Institute of Technology); OKA, Tetsuo (Shibaura Institute of Technology); NAKAMURA, Takashi (RIKEN)

THU-PO3-405-06: Magnetic field distribution on a 400 MHz all-REBCO at 20mm DSV and multi-layered ferromagnetic shimming
YANG, Hongmin (Kunsan National University); JANG, Jae young (Korea Basic Science Institute); LEE, SangGap (Korea Basic Science Institute); AHN, Min Cheol (Kunsan National University)

THU-PO3-405-07: Persistent Current Switch with Diode Protection and Superconducting Joint for a 5 T NbTi NMR Magnet
NOH, Hyun Sung (Korea University); KWON, Dawool (Korea University); RYU, Yunyeol (Korea University); CHOI, Yeon Suk (Korea Basic Science Institute); LEE, Haigun (Korea University)

On-line 7:00 - 8:00, On-site 10:00 - 12:00, On-line 21:00 - 22:00

2F Multipurpose Hall

THU-PO3-508 Superconducting Rotating Machines, Linear Machines, and

Session Moderator: Kazuhiro Kajikawa, Sanyo-Onoda City University

THU-PO3-508-01: A Dual-Stator HTS Modular Linear Vernier Motor for Long Stroke Applications
SHI, Yujun (University of Macau); CHING, T. W. (University of Macau); ZHONG, Junwen (University of Macau); JIAN, Linni (Southern University of Science and Technology)

THU-PO3-508-02: Comparative Study of HTS linear synchronous motor with different core and winding structures for electromagnetic launching
MA, Yuanzheng (Naval University of Engineering); SHEN, Shifeng (Naval University of Engineering); ZHAO, Jinghong (Naval University of Engineering)

THU-PO3-508-03: Conceptual design of a linear generator suitable for marine energy power generation
KAMBO, Petrus (Tokyo University of Marine Science and Technology); YAMANOUCHI, Yuhi (Tokyo University of Marine Science and Technology); CAUNES, Antomne (Tokyo University of Marine Science and Technology); WATASAKI, Masahiro (National Institute of Technology, Hiroshima College); YAMAGUCHI, Kota (National Institute of Technology, Oshima College); IDA, Tetsuya (Tokyo University of Marine Science and Technology)

THU-PO3-508-04: Electromagnetic Design of a Novel HTS Linear Synchronous Motor for Electromagnetic Launching
SHEN, Shifeng (Naval University of Engineering); MA, Yuanzheng (Naval University of Engineering); JINGHONG, Zhao (Naval University of Engineering)

THU-PO3-508-05: Electromagnetic Shielding Technique for No-insulation Superconducting Rotor Windings in Electrical Aircraft Propulsion
FU, Yutong (1.Shanghai Jiao Tong University 2.Chongqing University); LU, Zhen (Shanghai Jiao Tong University); XUE, Wenbo (Shanghai Jiao Tong University); HUANG, Binyu (Shanghai Jiao Tong University); HONG, Zhiyong (Shanghai Jiao Tong University); JIN, Zhijian (Shanghai Jiao Tong University); WANG, Yawei (Shanghai Jiao Tong University)

THU-PO3-508-06: Force Characteristic Analysis of Active EDS System Under Different Control Currents
LIU, Kang (State Key Laboratory of Traction Power, Southwest Jiaotong University); LUO, Jun (State Key Laboratory of Traction Power, Southwest Jiaotong University); SU, Zhenhua (Southwest Jiaotong University); WANG, Yiyu (State Key Laboratory of Traction Power, Southwest Jiaotong University); CUI, Libin (State Key Laboratory of Traction Power, Southwest Jiaotong University); ZHAO, Zhengwei (State Key Laboratory of Traction Power, Southwest Jiaotong University); MA, Guangtong (State Key Laboratory of Traction Power, Southwest Jiaotong University)

THU-PO3-508-07: Influence analysis of the geometrical parameters on the ac loss of the double sided linear HTS induction motor under various operation conditions
LI, Shuo (Northeastern University)

THU-PO3-508-08: Investigation on Time-Varying Behavior of No-Insulation HTS Field Coil for Synchronous Motors Considering Armature Reaction and Slotting Effect
YOON, Jonghoon (Seoul National University); BONG, Uijong (Seoul National University); AN, Soobin (Seoul National University); LEE, Jung Tae (Seoul National University); JUNG, Seok-Won (Seoul National University); HAHN, Seungyong (Seoul National University)

THU-PO3-508-09: Numerical Modeling for Electrical Machines with Superconducting Windings using H-A formulation
WEI, Haigening (University of Cambridge); YANG, Jiabin (University of Cambridge); TIAN, Mengyuan

(University of Cambridge); HU, Jintao (University of Cambridge); HAO, Luning (University of Cambridge); SHAH, Adil (University of Cambridge); PATEL, Ismail (Cambridge University); OZTURK, Yavuz (University of Cambridge); SHEN, Boyang (University of Cambridge); COOMBS, Tim

THU-PO3-508-10: Numerical Study of Magnet Stability in the Superconducting Armature Winding for a Superconducting Generator
YAN, Juzhuang (School of Astronautics, Beihang University); YANG, Wengjiang (School of Astronautics, Beihang University); SONG, Dongbin (School of Astronautics, Beihang University); WANG, Shaopeng (School of Astronautics, Beihang University); BAI, Mingliang (School of Astronautics, Beihang University)

THU-PO3-508-11: R&D of a No-insulation HTS Magnet for Small-Scale Bilateral HTS Linear Synchronous Motors
DONG, Fangliang (Shanghai Jiao Tong University); HUANG, Zhen (Shanghai Jiao Tong University)

THU-PO3-508-12: Stability of a metal insulated 2G HTS coil under the external ac field
SOHN, Myung-Hwan (Korea Electrotechnology Research Institute); KIM, Sung-Kyu (Korea Electrotechnology Research Institute); KIM, Junil (Korea Electrotechnology Research Institute); HA, Hongsoo (Korea electrotechnology research institute)

On-line 7:00 - 8:00, On-site 10:00 - 12:00, On-line 21:00 - 22:00

2F Multipurpose Hall

THU-PO3-511 Maglev and Levitation III

Session Moderator: Kazuhiro Kajikawa, Sanyo-Onoda City University

THU-PO3-511-01: An adaptive control strategy of electromagnetic bearing for flywheel energy storage based on online parameters identification
YU, Suhang; GUO, Wenyong (Institute of Electrical Engineering, Chinese Academy of Science); SANG, Wenju; TENG, Yuping; TIAN, Chenyu; CAI, Yang; XIAO, Liye

THU-PO3-511-02: Comprehensive performance evaluations on three kinds of radial hybrid magnetic bearings
ZHANG, Tao (Huaiyin Institute of Technology); XIAN, Xin (Huaiyin Institute of Technology)

THU-PO3-511-03: Dynamic characteristics of a fully HTS magnetic bearing under harmonic excitation
YE, Changqing (Hohai University); MA, Guangtong (Southwest Jiaotong University)

THU-PO3-511-04: Dynamics of magnetic flux during CC-tapes local magnetization
ANASTASIIA, Diadechko (National Research Nuclear University MEPhI); POKROVSKII, Sergei (National Research Nuclear University MEPhI); OSIPOV, Maxim (NRNU MEPhI); ANISHENKO, Irina (National Research Nuclear University MEPhI); STARIKOVSKII, Alexandr (National Research Nuclear University MEPhI); ABIN, Dmitry (National Research Nuclear University MEPhI (Moscow Engineering Physics

Institute)); RUDNEV, Igor (National Research Nuclear University MEPhI (Moscow Engineering Physics Institute))

THU-PO3-511-05: Electromagnetic performance comparison between heteropolar and homopolar six-pole hybrid magnetic bearings
ZHANG, Tao (Huaiyin Institute of Technology); ZHI, Tonghai (Huaiyin Institute of Technology)

THU-PO3-511-06: Experimental Research on the Translational Characteristics of High Temperature Superconducting Translational System
ZHAO, Peng (Beihang University); YANG, Wenjiang (Beihang University); LIU, Chaoxin (Beihang University)

THU-PO3-511-07: Levitation force enhancement of a magnetic bearing using the stator of hybrid superconducting magnet
XIAO, Ling (State Key Laboratory of Traction Power, Southwest Jiaotong University); GONG, Tianyong (Southwest Jiaotong University); ZHOU, Pengbo (Southwest Jiaotong University); MA, Guangtong (Southwest Jiaotong University)

THU-PO3-511-08: Optimization of the Levitation Performance for the Fully-Superconducting Magnetic Bearing
HAIYANG, Yu (Southwest Jiaotong University); YANG, Wenjiao (Southwest Jiaotong University); YAN, Zhaoying (Southewest Jiaotong University); LI, Jing (Southwest Jiaotong University); MA, Guangtong (Southwest Jiaotong University)

THU-PO3-511-09: Rail magnets arrangement for improving stability of a superconducting transport system
FUTAMURA, Muneo (Akita Prefectural University); OHATA, Sho (Akita Prefectural University); KANEZAWA, Ihu

THU-PO3-511-10: Research on universal mathematical model and design method of homopolar hybrid magnetic bearing
ZHANG, Tao (Huaiyin Institute of Technology); WANG, Zixin (Huaiyin Institute of Technology)

THU-PO3-511-11: Study of Rotational Stability in the HTS Magnetic Bearing Rotor Incorporated the Secondary of the Induction Motor
MINAMITANI, Marin (Kansai University); TANIGUCHI, Rento (Kansai University); OHASHI, Shunsuke (Kansai University)

THU-PO3-511-12: Suspension Force Analysis on 4-pole Radial Hybrid Magnetic Bearing with Independent Magnetic Circuits
YE, Xiaoting; WANG, Zixin (Huaiyin Institute of Technology); FU, Zhaodi (Huaiyin Institute of Technology)

THU-PO3-511-13: Vibration Characteristics of HTS Maglev System Levitated Above a Halbach Permanent Magnet Track
REN, Tianci (Southwest Jiaotong University); DENG, Zigang (Southwest Jiaotong University); KOU,

Long (Southwest Jiaotong University); WANG, Li (Southwest Jiaotong University)

On-line 7:00 - 8:00, On-site 10:00 - 12:00, On-line 21:00 - 22:00

2F Multipurpose Hall

THU-PO3-512 SFCL

Session Moderator: Hideaki Miura, Mitsubishi Electric Co.

THU-PO3-512-02: Analysis of cut-off characteristics of transformer-type superconducting DC circuit breaker according to reactance of superconductor and transformer turns ratio.
JEONG, Ji-Sol (Chosun University); GEON-WOONG, Kim (Chosun University); PARK, Sang-Yong (Chosun university); HYO-SANG, Choi (Chosun university)

THU-PO3-512-03: Analysis of Three Types of SFCL in Ship MVDC System
ZHENG, Haowen (Huazhong University of Science and Technology); REN, Li (Huazhong University of Science and Technology); LI, Zheng; CAI, Zhenming (School of Electrical and Electronic Engineering, Huazhong University of Science and Technology); SHI, Jing (Huazhong University of Science and Technology); TANG, Yuejin (Huazhong University of Science and Technology); LI, Jingdong; XU, Ying (Huazhong University of Science and Technology)

THU-PO3-512-04: Analysis on Fault Current Limiting and Recovery Characteristics of Three-Phase Transformer Type SFCL using Two SMs between Secondary Windings
HAN , Tae-Hee (Jungwon University); KO , Seok-Cheol (Kongju National University); LIM, Sung-Hun (Soongsil University)

THU-PO3-512-05: Comparison and analysis of inductance according to toroidal winding type of superconducting element combined the DC circuit breaker
KIM, Geon-woong (Chosun University); JEONG, Ji-sol (Chosun University); PARK, Sang-yong (Chosun University); CHOI, Hyo-sang (Chosun University)

THU-PO3-512-06: Comparison of Current Limiting Characteristics of REBCO Superconducting Wire of the Electrical Coupling Condition between Core and Coil
DU, Ho Ik (Jeonbuk National University); BAN, Sang Jae (Jeonbuk National University); JEONG, Hyun Gi (Jeonbuk National University); YANG, Sung Chae (Jeonbuk National University)

THU-PO3-512-07: Comparison of Solenoid-type and Annular-type Parallel Inductors Schemes in H-SFCL of Shipboard MVDC IPS
LI, Zheng; REN, Li (Huazhong University of Science and Technology); XU, Ying (Huazhong University of Science and Technology); GUO, Shuqiang (Huazhong university of science and technology); CAI, Zhenming (Huazhong university of science and technology); ZHENG, Haowen (Huazhong university of science and technology); TANG, Yuejin (Huazhong university of science and technology); LI, Jingdong (Huazhong university of science and technology); SHI, Jing (Huazhong University of Science and Technology)

THU-PO3-512-08: Coordination Strategy of Magneto-biased Superconducting Fault Current Limiter and Relay Protection in 10 kV Urban Power Grid
ZHU, Jiahui (China Electric Power Research Institute); YAN, Zhiyong; CHEN, Panpan; WEI, Defu; HE, Miao

THU-PO3-512-09: DC Fault Current Limiting Characteristics of Flux-Lock Type SFCLs with Parallel and Series connection between Two Coils
KO , Seok-Cheol (Kongju National University); HAN , Tae-Hee (Jungwon University); LIM, Sung-Hun (Soongsil University)

THU-PO3-512-10: Electromagnetic Design and Performance Analysis of a Hybrid-Type Superconducting Fault Current Limiter in Shipboard MVDC IPS
LI, Zheng; REN, Li (Huazhong University of Science and Technology); XU, Ying (Huazhong University of Science and Technology); CAI, Zhenming (Huazhong university of science and technology); GUO, Shuqiang (Huazhong university of science and technology); ZHENG, Haowen (Huazhong university of science and technology); YUEJIN, Tang (Huazhong university of science and technology); SHI, Jing (Huazhong University of Science and Technology); LI , Jingdong (Huazhong university of science and technology)

THU-PO3-512-11: Fault Current Limiting Operations of Three-Phase Transformer Type SFCL using Secondary Windings with Closed Loop
LIM, Sung-Hun (Soongsil University); KO, Seok-Cheol (Kongju National University); HAN, Tae-Hee (Jungwon University)

THU-PO3-512-12: Quench and Recovery Characteristics of Superconducting Current Limiting Coil Immersed in Liquid nitrogen / Carbon Tetrafluoride Mixture under DC Impact
ZHOU, Zhihao (Institute of Electrical Engineering, Chinese Academy of Science; University of Chinese Academy of Sciences); QIU, Qingquan (Institute of Electrical Engineering, Chinese Academy of Sciences); TENG, Yuping (Institute of Electrical Engineering, Chinese Academy of Sciences); SONG, Naihao (Institute of Electrical Engineering, Chinese Academy of Sciences); JING, Liwei (Institute of Electrical Engineering, Chinese Academy of Sciences); ZHANG, Jingye (Institute of Electrical Engineering, Chinese Academy of Sciences); ZHANG, Guomin (Institute of Electrical Engineering, Chinese Academy of Sciences); XIAO, Liye (Institute of Electrical Engineering, Chinese Academy of Sciences)

THU-PO3-512-13: The Coil Optimization Design of H-SFCL Applied in Ship DC System
CAI, Zhenming (Huazhong University of Science and Technology); REN, Li (Huazhong University of Science and Technology); LI, Zheng; TAN, Xiangyu (Huazhong university of science and technology); TANG, Yuejin (Huazhong University of Science and Technology); XU, Ying (Huazhong University of Science and Technology); SHI, Jing (Huazhong University of Science and Technology); LI, Jingdong

On-line 7:00 - 8:00, On-site 10:00 - 12:00, On-line 21:00 - 22:00

2F Multipurpose Hall

THU-PO3-605 MgB2 and Iron-based Wires and Cables

Session Moderator: Gen Nishijima, NIMS

THU-PO3-605-01: Critical Bending Radius Test and Analysis of 7-Filament Ba1-xKxFe2As2 Iron-Based Superconductor Tapes under 12 T Background Field

LIU, Xiao (Hefei Institutes of Physical Science, Chinese Academy of Scienc); ZHANG, Zhan (Chinese Academy of Sciences (CAS)); LIU, fang; WANG, Dongliang (Institute of Electrical Engineering, CAS); SHI, Yi (Institute of Plasma Physics); HONG, wenzhe; WANG, Qiqi (Institute of Plasma Physics, Chinese Academy of Sciences); ZHOU, Chao (Institute of Plasma Physics, Chinese Academy of Sciences); QIN, Jinggang; XU, Peng (TIPCCAS); LIU, Huajun (Chinese Academy of Sciences); MA, Yanwei (Institute of Electrical Engineering, Chinese Academy of Sciences)

THU-PO3-605-02: Critical current and nano-structural properties of K-doped $BaFe_2As_2$ epitaxial thin films by molecular beam epitaxy

QIN, Dongyi (Tokyo University of Agriculture and Technology); IIDA, Kazumasa (Nagoya University); TARANTINI, Chiara (ASC-NHMFL, Florida State University); HATANO, Takafumi (Japan/Nagoya Univ.); MA, Yiming (Kyushu University); WANG, Chao (Kyushu University); GAO, Hongye (Kyushu University); GUO, Zimeng (Kyushu University); SAITO, Hikaru (Kyushu University); HATA, Satoshi (Kyushu University); NAITO, Michio (Tokyo University of Agriculture and Technology); YAMAMOTO, Akiyasu (Tokyo University of Agriculture and Technology)

THU-PO3-605-03: Demonstration of a kA-class Rutherford Cables using MgB2 Wires for Energy Storage Device optimal for Liquid Hydrogen Indirect Cooling System

YAGAI, TSUYOSHI (Sophia University); TAKAHASHI, Masafumi (Sophia University); TAKAO, Tomoaki (Sophia University); KOMAGOME, Toshihiro (Mayekawa MFG); MAKIDA, yasuhiro (KEK); SHINTOMI, Takakazu (KEK); HIRANO, Naoki (National Institute for Fusion Science(NIFS)); HAMAJIMA, Takataro (Tohoku University); KIKUCHI, Akihiro (National Institute for Materials Science); NISHIJIMA, Gen (National Institute for Materials Science); MATSUMOTO, Akiyoshi (NIMS)

THU-PO3-605-04: Development of MgB2 superconducting wires at Sam Dong Co., Ltd.

CHOI, Jun Hyuk (Sam Dong Co., Ltd.); LEE, Dong Gun (Sam Dong Co., Ltd.); JEON, Ju Heum (Sam Dong Co., Ltd.); MAEDA, Minoru (Kangwon National University); CHOI, Seyong (Kangwon National University); KIM, Jung Ho (University of Wollongong)

THU-PO3-605-05: Effect of different bending diameters on the current-carrying capacity of iron-based superconducting tapes

LI, Chunyan (Institute of High Energy Physics, Chinese Academy of Sciences); KANG, Rui (Institute of High Energy Physics, CAS); ZHU, Yanchang (Institute of Electrical Engineering, Chinese Academy of Sciences); WANG, Qiqi (Institute of Plasma Physics, Chinese Academy of Sciences); ZHANG, Zhen (Institute of High Energy Physics, Chinese Academy of Sciences); WANG, Yingzhe (IHEP); ZHOU, Jin (Institute of High Energy Physics, Chinese Academy of Sciences); YAO, Huanli (Institute of High Energy Physics, Chinese Academy of Sciences); WANG, Chengtao (Institute of High Energy Physics, University of Chinese Academy of Sciences); LIU, Cong (Institute of Electrical Engineering, Chinese Academy of Sciences); ZHANG, Xianping (Institute of Electrical Engineering, Chinese Academy of Science); WANG, Dongliang (Institute of Electrical Engineering, CAS); LIU, fang; MA, Yanwei (Institute of Electrical Engineering, Chinese Academy of Sciences); XU, Qingjin (IHEP)

THU-PO3-605-06: Influence of premix condition on the microstructure and trapped field properties of MgB2 bulk magnets by Mg Vapor Transportation (MVT) method

TANAKA, Rika (Tokyo University of Agriculture and Technology); YAMAMOTO, Akiyasu (Tokyo University of Agriculture and Technology)

THU-PO3-605-07: Measurement of irreversible external-compressive strain and minimization of reversible bending radius on MgB2 multifilament wire
TANAKA, Hideki (Hitachi, Ltd.); SUZUKI, Takaaki (Hitachi, Ltd.); KODAMA, Motomune (Hitachi, Ltd.); KOTAKI, Hiroshi (Hitachi, Ltd.)

THU-PO3-605-08: Optimization of the react and wind coil manufacturing process using MgB2 twisted cable
KIM, Jiman (1.Kiswire Advanced Technology Ltd. 2.Korea University); JANG, Sehun (Kiswire Advanced Technology Ltd.); KIM, Youngkyoung (Kiswire Advanced Technology Ltd.); NOH, Hyun Sung (Korea University); KWON, Dawool (Korea University); LEE, Haigun (Korea University)

THU-PO3-605-09: Presentation withdrawn

THU-PO3-605-10: Synthesis and Current Transport Properties of Ba(Fe,Co)2As2 Polycrystalline Bulks Prepared by Spark Plasma Sintering
HASEGAWA, Yuta; TOKUTA, Shinnosuke (Tokyo University of Agriculture and Technology); YAMAMOTO, Akiyasu (Tokyo University of Agriculture and Technology)

On-line 7:00 - 8:00, On-site 10:00 - 12:00, On-line 21:00 - 22:00

2F Multipurpose Hall

THU-PO3-608 AC Loss in HTS Wires and Cables

Session Moderator: Gen Nishijima, NIMS

THU-PO3-608-01: Buffer layer Patterning Technology for Filamentary HTS Coated Conductors
HAO, Luning (University of Cambridge); YANG, Jiabin (University of Cambridge); HU, Jintao (University of Cambridge); TIAN, Mengyuan (University of Cambridge); WEI, Haigening (University of Cambridge); MA, Jun (Cambridge Universitry); SHEN, Boyang (University of Cambridge); COOMBS, Tim

THU-PO3-608-02: Dynamic resistance and dynamic loss of the partially coupled quasi-isotropic cable with consideration of the resistance at terminals
LI, Shuo (Northeastern University)

THU-PO3-608-03: Evaluation of magnetic properties of REBCO wire by modified SST for cryogenics
KUME, Kazuki (Okayama University); INOUE, Ryota (Okayam University); UEDA, Hiroshi (Okayama University); KIM, SEOKBEOM (Okayama University)

THU-PO3-608-04: Experimental Evaluation of Current Distribution in Three-Strand Transposed Parallel Conductors Composed of REBCO Superconducting Tapes

OMANYUDA, Yuki (Kyushu University); SASA, Hiromasa; MIYAZAKI, Hiroshi (1. Research Institute of Superconductor Science and Systems, Kyushu University); MIURA, Shun (Kyushu University); IWAKUMA, Masataka

THU-PO3-608-05: Fabrication of magnetic field shielding film using YBa2Cu3O7-δ powder
TAMARU, Jun-ya; TERANISHI, Ryo; SATO, Yukio; KANEKO, Kenji; MACHI, Takato; IWAKUMA, Masataka

THU-PO3-608-06: Influence of Dynamic Resistance on Current Distribution of HTS Cable Conductor for Feeder lines and Large Scale Magnet
WANG, Yinshun

THU-PO3-608-07: Magnetization and Hysteresis Losses in HTS Coated Conductors in Magnetic Field of Various Orientation
RUDNEV, Igor (National Research Nuclear University MEPhI (Moscow Engineering Physics Institute)); POKROVSKII, Sergei (National Research Nuclear University MEPhI); ANISHENKO, Irina (National Research Nuclear University MEPhI); NOVIKOV, Michael (Joint Institute for Nuclear Research); KHODZHIBAGIYAN, Hamlet (Joint Institute for Nuclear Research); BATULIN, Ruslan (Kazan Federal University)

THU-PO3-608-08: Study on Screening Current of Like Quasi-isotropic Conductor Based on optimized T-A formulation
张 馨丹; 王 银顺 (华北电力大学); 王 跃茵 (华北电力大学)

THU-PO3-608-09: Reduction of AC losses in REBCO split wire and coil without deterioration of critical current
KANAZAWA, Shintetsu (Muroran Institute of Technology); SEKINE, Chihiro (Muroran Institute of Technology); YAMAGUCHI, Takashi (Sumitomo Electric Industries, Ltd.); NAGAISHI, Tatsuoki (Sumitomo Electric Industries, Ltd.)

THU-PO3-608-10: Role of asymmetric critical current on magnetization loss characteristics of REBCO coated conductors at various temperatures
SUN, Yueming (Robinson Research Institute, Victoria University of Wellington); JIN, Fang (Beijing Jiaotong University); PANTOJA, Andres (Victoria University of Wellington); BADCOCK, Rod (Victoria University of Wellington); LONG, Nicholas J. (Robinson Research Institute, Victoria University of Wellington, PO Box 33436, Lower Hutt 5046, New Zealand); JIANG, Zhenan (Victoria University of Wellington)

On-line 7:00 - 8:00, On-site 10:00 - 12:00, On-line 21:00 - 22:00

2F Multipurpose Hall

THU-PO3-611 Cable-in-Conduit and Other Internally Cooled Conductors

Session Moderator: Gen Nishijima, NIMS

THU-PO3-611-01: Presentation withdrawn

THU-PO3-611-02: Presentation withdrawn

THU-PO3-611-04: Manifestation of electromagnetic performance degradation of Nb3Sn cable-in-conduit conductor in the change of its mechanical structure
GUO, Zichuan (Institute of Plasma Physics Chinese Academy of Sciences); DAI, Chao (Institute of Plasma Physics, CAS); QIN, Jinggang

THU-PO3-611-05: Structural Modeling of HTS VIPER Cable for High-Field Magnet Applications
ZHAO, Zijia (Tufts University); MOORE, Peter (Tufts University); CHIESA, Luisa (Tufts University)

On-line 7:00 - 8:00, On-site 10:00 - 12:00, On-line 21:00 - 22:00

2F Multipurpose Hall

THU-PO3-612 Bulk Magnets

Session Moderator: Tomoyuki Naito, Iwate University

THU-PO3-612-01: A numerical evaluation of magnetizing characteristic of bulk magnet excited by pulsed-field magnetization with different shaped soft-iron yokes
YOKOYAMA, Kazuya (Ashikaga University); MAHMOUD, Assaad (Ashikaga University); YU, CONG (Ashikaga University); OKA, Tetsuo (Shibaura Institute of Technology)

THU-PO3-612-02: Conception design of a magnetic flux lens using stacked HTS tapes
ZHOU, Difan (Shanghai University); ZHANG, Qing (Shanghai University); LI, Wenhao (Shanghai University); ZHANG, Yibing (Shanghai University); CAI, Chuanbing (Shanghai University)

THU-PO3-612-03: Development of CaKFe4As4 bulks by spark plasma sintering method
OGINO, Hiraku (National Institute of Advanced Industrial Science and Technolog); PAVAN KUMAR NAIK, Sugali (Tokyo University of Science); TSUCHIYA, Yoshinori (National Institute of Advanced Industrial Science and Technology (AIST)); KAMIYA, Yoshihisa (IMRA JAPAN CO. LTD.); KAWASHIMA, Kenji (IMRA JAPAN CO. LTD.); MAWATARI, Yasunori (National Institute of Advanced Industrial Science and Technology (AIST)); YOSHIDA, Yoshiyuki; NISHIO, Taichiro (Tokyo University of Science); IYO, Akira (AIST); EISAKI, Hiroshi (AIST); ISHIDA, Shigeyuki (AIST)

THU-PO3-612-04: Fabrication of all c-grown RE123 melt-textured bulks with homogeneous trapping field distributions using Single-Direction Melt Growth method
REMPEI, Sasada (Aoyama Gakuin University); MOTOKI, Takanori (Aoyama Gakuin University); TOMIHISA, Takuma (Aoyama Gakuin University); SHIMOYAMA, Jun-ichi (Aoyama Gakuin University)

THU-PO3-612-05: Mitigation of non-uniform current distribution in bulk high-temperature superconducting rings for the generation of NMR-grade magnetic fields

BECK, Mike (University of Cambridge); AINSLIE, Mark (University of Cambridge)

THU-PO3-612-06: Physical properties of all c-grown Gd123 bulks starting from various metal compositions
TOMIHISA, Takuma (Aoyama Gakuin University); MOTOKI, Takanori (Aoyama Gakuin University); SASADA, Rempei (Aoyama Gakuin University); SHIMOYAMA, Jun-ichi (Aoyama Gakuin University)

THU-PO3-612-07: Pulsed field magnetization of GdBaCuO superconducting bulks with high magnetization efficiency using a split type coil with a soft iron yoke
SHINDEN, Motoki (Iwate University); NAMBURI, Devendra (University of Cambridge); TAKAHASHI, Keita (Iwate University); FUJISHIRO, Hiroyuki (Iwate University); AINSLIE, Mark (University of Cambridge)

THU-PO3-612-08: Short-time fabrication and trapped field distributions of large REBCO melt-textured bulks made by Single-Direction Melt Growth method
MOTOKI, Takanori (Aoyama Gakuin University); SASADA, Rempei (Aoyama Gakuin University); TOMIHISA, Takuma (Aoyama Gakuin University); NAKAMURA, Shin-ichi (TEP); SHIMOYAMA, Jun-ichi (Aoyama Gakuin University)

THU-PO3-612-09: Presentation withdrawn

THU-PO3-612-10: Study on the structure design of HTS bulk magnets for compact MRI
KIM, SEOKBEOM (Okayama University); UEDA, Hiroshi (Okayama University); SASAKI, Joto (Okayama University); KAWAMURA, Kohei (Okayama University); INOUE, Ryota (Tohoku University)

THU-PO3-612-11: Tensile properties of (Gd,Y,Er)BaCuO superconducting bulk materials fabricated by infiltration growth technique
MURAKAMI, Akira (National Institute of Technology, Ichinoseki College) ; MURALIDHAR, Miryala (Shibaura Institute of Technology); CHIDA, Seiya (National Institute of Technology, Ichinoseki College); TAKAHASHI, Kunji (National Institute of Technology, Ichinoseki College); IWAMOTO, Akifumi (National Institute for Fusion Science)

THU-PO3-612-12: The influence of local heat generation in a REBaCuO ring bulk with large bore on mechanical fracture during pulsed-field magnetization
SHINDEN, Motoki (Iwate University); TAKAHASHI, Keita (Iwate University); FUJISHIRO, Hiroyuki (Iwate University); AINSLIE, Mark (University of Cambridge)

THU-PO3-612-13: A Comparative Study of Experimental and Computational Modeling for Thickness Dependence of Trapped Field in Machined MgB2 Bulk Superconductors
AINSLIE, Mark (University of Cambridge); YAMAMOTO, Akiyasu (Tokyo University of Agriculture and Technology)

On-line 7:00 - 8:00, On-site 10:00 - 12:00, On-line 21:00 - 22:00

2F Multipurpose Hall

THU-PO3-614 Current Leads

Session Moderator: Tomoyuki Naito, Iwate University

THU-PO3-614-01: BSCCO geometrical and soldering optimisation for high current lead application
CAPELLUTO, Alessio (ASG Superconductors); NERI, Martina (ASG Superconductors); MAURO, Lorenzo (ASG Superconductors)

THU-PO3-614-02: Gas-cooled Peltier current leads for compact HTS devices
IVANOV, Yury (Chubu University); WATANABE, Hirofumi (Chubu University); CHIKUMOTO, Noriko (Chubu University); YAMAGUCHI, Satarou (Chubu University)

THU-PO3-614-03: Preliminary design and analysis of 20 K helium cooled MgB2 based superconducting current feeder system for Tokamak application
BAIRAGI, Nitin (Institute for Plasma Research, Bhat, Gandhinagar-382 428 Gujarat, India & Homi Bhaba National Institute, Anushakti Nagar, Mumbai-400 085, Maharashtra, India); TANNA, Vipul L (Institute for Plasma Research, Bhat, Gandhinagar-382 428 Gujarat, India & Homi Bhaba National Institute, Anushakti Nagar, Mumbai-400 085, Maharashtra, India); DANIEL, Raju (Institute for Plasma Research, Bhat, Gandhinagar-382 428 Gujarat, India & Homi Bhaba National Institute, Anushakti Nagar, Mumbai-400 085, Maharashtra, India)

On-line 7:00 - 8:00, On-site 10:00 - 12:00, On-line 21:00 - 22:00

2F Multipurpose Hall

THU-PO3-617 Other Components for Magnets

Session Moderator: Kazuya Takahata, NIFS

THU-PO3-617-01: A Novel High Heat Capacity Resin for Impregnation of Nb3Sn Superconducting Magnets
KIKUCHI, Akihiro (National Institute for Materials Science); HIRATA, Kazuto (NIMS); TAKEUCHI, Masaki (RIMTEC Corporation); BARZI, emanuela (Fermilab); TURRIONI, Daniele (FNAL (US)); MOKHOV, Nikolai (Fermi National Accelerator Lab. (US)); ZLOBIN, Alexander (Fermilab); TSUCHIYA, Kiyosumi (KEK)

THU-PO3-617-02: Deformation of Copper Matrix Conductors under Cyclic Loading
HAN, Ke (Florida State University); TOPLOSKY, Vince (Florida State University); XIN, yan (Florida State University)

THU-PO3-617-03: Electromagnetic Characteristics of a Bitter-like HTS Magnet Excited by Flux Pump with Thermal Switch
WANG, Jiawen (North China Electric Power University); WANG, Yinshun (North China Electric Power University); PI, Wei (North China Electric Power University)

THU-PO3-617-04: Mechanical and thermal properties of glass fiber-filled thermos-plastic materials for magnet and cryogenic applications
TOPLOSKY, Vince (NHMFL); BETTS, Scott (NHMFL); GODDARD, Robert (NHMFL); HAN, Ke; TORRES, Joseph; NGUYEN, Doan (NHMFL)

THU-PO3-617-05: Optimal operating conditions of YBa2Cu3Oy HTS diode with a PrBa2Cu3Oy buffer layer
MIZUNO, Akihito (Nagoya University); TSUCHIYA , Yuji (Nagoya University); AWAJI, Satoshi (Tohoku University); YOSHIDA, Yutaka (Nagoya University)

THU-PO3-617-06: Repetitive irradiation tests at cryogenic temperature by neutrons and protons on stabilizer materials of superconductor
YOSHIDA, Makoto; NAKAMOTO, Tatsushi; OGITSU, Toru; YOSHIIE, Toshimasa (KURNS); XU, Qui (KURNS); MEIGO, Shin-ichiro (J-PARC/JAEA); IWAMOTO, Yosuke (Japan Atomic Energy Agency)

On-line 7:00 - 8:00, On-site 10:00 - 12:00, On-line 21:00 - 22:00

2F Multipurpose Hall

THU-PO3-707 Quench Analysis I

Session Moderator: Kazuya Takahata, NIFS

THU-PO3-707-01: Adaptive Element Equivalent Circuit of No-Insulation High Temperature Superconductor Coil Containing Multiple Defects
AN, Soobin (Seoul National University); IM, Chaemin (Seoul National University); KIM, Geonyoung (Seoul National University); HAHN, Seungyong (Seoul National University)

THU-PO3-707-02: A Numerical Method for Simulating the Quench Behavior of Superconductors
PI, Wei (North China Electric Power University); WANG, Yinshun (North china electric power university)

THU-PO3-707-04: Experiment and analysis of spatial electromagnetic and thermal behaviors during quench propagation in no-insulation HTS coil with multi-physics distributed-circuit approach
KIM, Geonyoung (Seoul National University); BANG, Jeseok (Seoul National University); CHOI, Kibum (Seoul National University); IM, Chaemin (Seoul National University); KIM, Jaemin (Seoul National University); HAHN, Seungyong (Seoul National University)

THU-PO3-707-05: Presentation withdrawn

THU-PO3-707-06: Network model for REBCO pancake coils with heat transfer
WEBB-MACK, Zoe (Lawrence Berkeley National Laboratory); WANG, Xiaorong (Lawrence Berkeley National Laboratory); JI, Qing (Lawrence Berkeley National Laboratory)

THU-PO3-707-07: Numerical study of quench behaviour in YBCO CORC cables
YANG, Jiabin (University of Cambridge); TIAN, Mengyuan (University of Cambridge); HU, Jintao (University of Cambridge); SHAH, Adil (University of Cambridge); PATEL, Ismail (Cambridge University); WEI, Haigening (University of Cambridge); HAO, Luning (University of Cambridge); OZTURK, Yavuz (University of Cambridge); SHEN, Boyang (University of Cambridge); COOMBS, Tim

THU-PO3-707-08: Partial-Insulation HTS Magnet for Reduction of Quench-Induced Peak Currents
LEE, Wooseung (Massachusetts Institute of Technology); PARK, Dongkeun (Massachusetts Institute of Technology); BASCUNAN, Juan (Massachusetts Institute of Technology); IWASA, Yukikazu (Massachusetts Institute of Technology)

THU-PO3-707-09: Quench Study on REBCO Coil for a HTS Sextupole Magnet
WANG, Xudong (High Energy Accelerator Research Organization); TSUCHIYA, Kiyosumi (KEK); FUJITA, Shinji (Fujikura Ltd.); MUTO, Shogo (Fujikura Ltd.); TSUCHIYA, KOki (Fujikura Ltd.)

THU-PO3-707-10: Quench detection and protection of high-temperature superconducting magnets: The case of a Bi-2212 Rutherford cable canted-cosine-theta dipole magnet
REIS, Christopher (Lawrence Berkeley National Laboratory); GARCIA FAJARDO, Laura (Lawrence Berkeley National Laboratory); SHEN, Tengming (Lawrence Berkeley National Laboratory)

THU-PO3-707-11: Transient behavior of a REBCO No-Insulation or Metal-as-Insulation multi-pancakes-or racetracks- coil using a Partial Element Equivalent Circuit model.
GENOT, Clement (CEA Saclay); LECREVISSE, Thibault (CEA-Universite Paris-Saclay (FR)); FAZILLEAU, philippe (cea)

On-line 7:00 - 8:00, On-site 10:00 - 12:00, On-line 21:00 - 22:00

2F Multipurpose Hall

THU-PO3-710 Stability

Session Moderator: Hiroshi Ueda, Okayama University.

THU-PO3-710-02: Effect of Different Impregnation Materials on Electromechanical Behaviors of Superconducting Compact Cables
YE, Haosheng (Shanghai Jiao Tong University); HU, Rui; JIN, Zhijian (Shanghai Jiao Tong University); SHENG, Jie (Shanghai Jiao Tong University)

THU-PO3-710-03: Enhanced Thermal and Electrical Properties of GdBCO Magnets Impregnated with Epoxy Composites Containing Various Fillers
KIM, Young Hoon (Korea University); NOH, Hyun Sung (Korea University); KWON, Dawool (Korea University); MTANGI, Mohamed Mussa (Korea University); CHOI, Yeon Suk (Korea Basic Science Institute); LEE, Haigun (Korea University)

THU-PO3-710-04: Increase of thermal stability caused by high thermal conduction VFRPs in conduction-cooled HTS coils
TAKAO, Tomoaki (Sophia University); ARISAKA, Ginpei (Sophia University); FUKANO, Kai (Sophia University); KATAYAMA, Takashi (Kuraray)

THU-PO3-710-05: Investigation of AC Current Transmission Capacity of 2G HTS Tapes Under Different Refrigeration Conditions
LI, Xin; REN, Li; GUO, Shuqiang

THU-PO3-710-06: Minimum Quench Energy of Nb3Sn Wires and Rutherford Cables with High Specific Heat
BARZI, emanuela (Fermilab); NOVITSKI, Igor (FERMILAB); TURRIONI, Daniele (FNAL (US)); PENG, Xuan (Hyper Tech Research Inc.); TOMSIC, Michael (Hyper Tech Research Inc.); ZLOBIN, Alexander (Fermilab)

THU-PO3-710-07: Minimum Quench Energy of NbTi and Nb3Sn Conductors Impregnated with High Heat Capacity Resin
BARZI, emanuela (Fermilab); KIKUCHI, Akihiro (National Institute for Materials Science); HIRATA, Kazuto (NIMS); TAKEUCHI, Masaki (RIMTEC Corporation); TURRIONI, Daniele (FNAL (US)); MOKHOV, Nikolai (Fermi National Accelerator Lab. (US)); ZLOBIN, Alexander (Fermilab); TSUCHIYA, Kiyosumi (KEK)

THU-PO3-710-08: Presentation withdrawn

THU-PO3-710-09: [Invited] Stability of Two Impregnated 1.5-T NbTi Coils Operated in the 4.2-6 K Range, Paraffin vs. Solid Nitrogen
LEE, Wooseung (Massachusetts Institute of Technology); PARK, Dongkeun (Massachusetts Institute of Technology); BASCUNAN, Juan (Massachusetts Institute of Technology); IWASA, Yukikazu (Massachusetts Institute of Technology)

THU-PO3-710-10: Thermal-Quench Behavior of GdBCO Coils Wound with Grease Containing Various Fillers as Insulation Materials
NOH, Hyun Sung (Korea University); MUSSA, Mtangi Mohamed (Korea University); KIM, Young Hoon (Korea University); ELAYAPAN, Vijayakumar (Korea University); KWON, Dawool (Korea University); RYU, Yunyeol (Korea University); AN, Soobin (Seoul National University); HAHN, Seungyong (Seoul National University); LEE, Haigun (Korea University)

On-line 7:00 - 8:00, On-site 10:00 - 12:00, On-line 21:00 - 22:00

2F Multipurpose Hall

THU-PO3-713 Magnetization and Field Quality I

Session Moderator: Hiroshi Ueda, Okayama University.

THU-PO3-713-01: Design method of active shield coils of steering magnet for fine tuning of muon injection orbit in muon storage magnet of g-2/EDM precision measurement
ABE, Mitsushi (KEK); IINUMA, Hiromi (Japan/Ibaraki-University); SASAKI, Ken-ichi (KEK); HISAYOSHI, Nakayama (KEK); SAITO, Naohito (KEK / J-PARC); OGITSU, Toru (KEK); MIBE, Tsutomu (KEK)

THU-PO3-713-02: Development of magneitc field mapping system for MuSEUM experiement with high precision using CW-NMR probes
SASAKI, Ken-ichi (KEK); SUMI, Naoyuki (KEK); SHIMIZU, Kotaro (The University of Tokyo); TANAKA, Toya (University of Tokyo); MATSUDA, Yasuyuki (University of Tokyo (JP)); MIBE, Tsutomu (KEK); SHIMOMURA, koichiro (KEK)

THU-PO3-713-03: [Invited] Development of precise shimming technique with materials having low saturation magnetization
SASAKI, Ken-ichi (KEK); SUGITA, Moe (JAEA); ABE, Mitsushi (KEK); IINUMA, Hiromi (Japan/Ibaraki-University); OGANE, Chiori; MIBE, Tsutomu (KEK); SHIMOMURA, koichiro (KEK); OGITSU, Toru

THU-PO3-713-04: Effect on temperature dependence for long-term stable control of the magnetic field at sub-ppm using superconducting magnet for MRI
SUGITA, Moe (Japan Atomic Energy Agency); SASAKI, Ken-ichi (KEK); ABE, Mitsushi (KEK); IINUMA, Hiromi (Japan/Ibaraki-University); OHGANE, Chiori (Japan Atomic Energy Agency); OGITSU, Toru; MIBE, Tsutomu (KEK); SHIMOMURA, Koichiro (KEK)

THU-PO3-713-05: ITER Outer Vessel Steady-State magnetic sensor calibration
STRAUSS, Thomas (FNAL); DIMARCO, Joseph (Fermilab); WINTER, Peter (Argonne National Laboratory); CORRODI, Simon (ANL); ELEMENTI, Luciano (Fermilab); KOCAN, Martin (ITER); DURAN, Ivan (IPP); OROZCO, Charles (Fermi National Accelerator Laboratory); ENTLER, Slavomir (IPP)

THU-PO3-713-06: Presentation withdrawn

THU-PO3-713-07: Measurement of HTS bulk magnetization process with two-dimensional magnetic field sensor
IDA, Tetsuya (Tokyo University of Marine Science and Technology); KAWASUMI, Nagisa (Tokyo University of Marine Science and Technology); CAUNES, Antomne (Tokyo University of Marine Science and Technology); IMAMICHI, Hayato (Tokyo University of Marine Science and Technology)

On-line 7:00 - 8:00, On-site 10:00 - 12:00, On-line 21:00 - 22:00

2F Multipurpose Hall

THU-PO3-717 Mechanical Behavior of Conductor

Session Moderator: Hidetoshi Oguro, Tokai University

THU-PO3-717-01: Bending Characteristics of Cable-In-Conduit Conductor based on Quasi-Isotropic Strands
NIE, Yang (North China Electric Power University); WANG, yinshun (North china electric power university)

THU-PO3-717-02: Critical current of various ReBCO tapes under uniaxial strain
XIAO, Guanyu (Institute of Plasma Physics, Chinese Academy of Sciences); ZHOU, Chao (Institute of Plasma Physics, Chinese Academy of Sciences); QIN, Jinggang; JIN, Huan; GAO, Peng (Institute of Plasma Chinese Academy of Sciences); LIU, Huajun (Chinese Academy of Sciences); LIU, fang

THU-PO3-717-03: Development of a Simple Measurement System for Electromechanical Performance Evaluation of REBCO Coated Conductor Tapes
DIAZ, Mark Angelo (Andong National University); DE LEON, Michael (Andong National University); SHIN, Hyung-Seop (Andong National University); MEAN, Byeong-Jin (SuNAM Co. Ltd.); LEE, Jae-Hun (SuNAM Co. Ltd.)

THU-PO3-717-04: Presentation withdrawn

THU-PO3-717-05: Mechanical stress simulation of REBCO tapes using particle methods
MATO, Takanobu (Hokkaido University); NAKAI, Yusuke (Hokkaido University); NOGUCHI, So (Hokkaido University)

On-line 7:00 - 8:00, On-site 10:00 - 12:00, On-line 21:00 - 22:00

2F Multipurpose Hall

THU-PO3-719 Design and Analysis II

Session Moderator: Hidetoshi Oguro, Tokai University

THU-PO3-719-01: Assessment of coil design and pulse unit parameters for the optimization in the electromagnetic forming process of metal sheet
PAESE, Evandro (Universidade de Caxias do Sul UCS); GEIER, Martin (Universidade Federal do Rio Grande do Sul); ROSSI, Rodrigo (Universidade Federal do Rio Grande do Sul); HOMRICH, Roberto Petry (Universidade Federal do Rio Grande do Sul); ROSA, Pedro A. R. C. (Instituto Superior Tecnico, Universidade de Lisboa)

THU-PO3-719-02: Comparison between T-A formulation and uniform current assumption for the critical current calculation of high temperature superconductor ReBCO coils
XUE, Wenbo (Shanghai Jiao Tong University); LU, Zhen (Shanghai Jiao Tong University); FU, Yutong (1.Shanghai Jiao Tong University 2.Chongqing University); HONG, Zhiyong (Shanghai Jiao Tong University); JIN, Zhijian (Shanghai Jiao Tong University); WANG, Yawei (Shanghai Jiao Tong University)

THU-PO3-719-03: Current distribution modeling in the open-source OPENSC2 tool for the multi-physics analysis of HTS and LTS superconducting cables
VIARENGO, Sofia (MAHTEP Group, Dipartimento Energia "Galileo Ferraris", Politecnico di Torino,); FRESCHI, Fabio (Dipartimento Energia "Galileo Ferraris", Politecnico di Torino); PLACIDO, Daniele (MAHTEP Group, Dipartimento Energia "Galileo Ferraris", Politecnico di Torino); SAVOLDI, Laura (Politecnico di Torino)

THU-PO3-719-04: Experimental and Comparative Study of Noise Vibrations and Harshness of Permanent Magnet Machines according to Rotor Eccentricity with Two Different Fractional Pole/Slot Combinations
BANG, Tae-Kyoung (Republic of Korea /Chungnam National University); CHOI, Jang Young (Chungnam National University); CHO, Han-Wook (Chungnam National University); WOO, Jong-Hyeon (chungnam national university); LEE, Jeong-In (CHUNGNAM NATIONAL UNIVERSITY); SHIN, Kyung-Hun (Chonnam National University)

THU-PO3-719-05: Improvement of excitation delay by multiple high temperature superconducting tapes in no-insulation coil
NAKADA, Yuma (Chiba University); TAKENAKA, Mikito (Chiba university); KOBAYASHI, Hiroyasu (Chiba University); SAOTOME, Hideo (Chiba Univercity); MIYAGI, Daisuke (Department of Electrical and Electronic Engineering, Chiba University, Chiba 263-8522, Japan); NAGASAKI, Yoh (Tohoku University); TSUDA, Makoto (Tohoku University)

THU-PO3-719-06: Levitation characteristics analysis of a novel bearingless switched reluctance motor
ZHANG, Tao (Huaiyin Institute of Technology); WANG, Zixin (Huaiyin Institute of Technology)

THU-PO3-719-07: Magnetothermal Coupling Analysis of Claw Pole Machine using Combined Magnetic and Thermal Network Method
LIU, chengcheng (Hebei university of technology); WANG, Xue; WANG, Youhua (Hebei University of Technology); LEI, Gang (University of Technology Sydney); ZHU, Jianguo (University of Sydney)

THU-PO3-719-08: Modelling and Investigation on the AC loss of the 2G YBCO tape influenced by High-order power harmonics
ZHAI, Yujia (Hunan University); NIU, Chang (Hunan University)

THU-PO3-719-09: Screening Current Induced Field changes during De-energization with Axial Clamping
KOLB-BOND, Dylan (NHMFL); BIRD, Mark (FSU); PAINTER, Thomas (NHMFL)

THU-PO3-719-10: STEAM Software Framework to Simulate Transients in Accelerator Magnets and Circuits

RAVAIOLI, Emmanuele (CERN); WOZNIAK, Mariusz (CERN); BORTOT, Lorenzo (Technische Universitaet Darmstadt (DE)); DELKOV, Dimitri (CERN); JANITSCHKE, Marvin (Technische Universitaet Berlin (DE)); MACIEJEWSKI, Michal (CERN); MENTINK, Matthias (CERN); PEDERSEN, Anne Kathrine Holk (Aarhus University (DK)); ARNEGAARD, Ola Tranum (Norwegian University of Science and and Technology (NTNU) (NO)); VERWEIJ, Arjan (CERN)

THU-PO3-719-11: Thermal Network Modeling for High-frequency Insulated Core Transformers

NIE, Lanxin (State Key Laboratory of Advanced Electromagnetic Engineering and Technology (School of Electrical and Electronic Engineering, Huazhong University of Science and Technology); YANG, Jun (State Key Laboratory of Advanced Electromagnetic Engineering and Technology (School of Electrical and Electronic Engineering, Huazhong University of Science and Technology); TANG, Kun (Huazhong University of Science and Technology)

THU-PO3-719-12: Thermal stability against local critical current degradation in an HTS pancake coil wound with an insulated conductor composed of no-insulated multiple tapes

MIYAGI, Daisuke (Chiba University); TAKENAKA, Mikito (Chiba university); NAKADA, Yuma (Chiba Univ); KOBAYASHI, Hiroyasu (Chiba University); SAOTOME, Hideo (Chiba Univercity); NAGASAKI, Yoh (Tohoku University); TSUDA, Makoto (Tohoku University)

On-line 7:00 - 8:00, On-site 10:00 - 12:00, On-line 21:00 - 22:00

2F Multipurpose Hall

THU-PO3-802 Cryostats and Cooling systems

Session Moderator: Hiroshi Miyazaki, Kyusyu University

THU-PO3-802-01: A long-life, high-capacity and high-efficiency cryogenic system developed for high-Tc superconducting magnet applications

XUE, Renjun (State Key Laboratory of Infrared Physics, Shanghai Institute of Technical Physics, Chinese Academy of Sciences); DANG, Haizheng (State Key Laboratory of Infrared Physics, Shanghai Institute of Technical Physics, Chinese Academy of Sciences); TAN, Jun (State Key Laboratory of Infrared Physics, Shanghai Institute of Technical Physics, Chinese Academy of Sciences); WU, Shiguang (State Key Laboratory of Infrared Physics, Shanghai Institute of Technical Physics, Chinese Academy of Sciences); ZHAI, Yujia (State Key Laboratory of Infrared Physics, Shanghai Institute of Technical Physics, Chinese Academy of Sciences); ZHANG, Tao (State Key Laboratory of Infrared Physics, Shanghai Institute of Technical Physics, Chinese Academy of Sciences); ZHAO, Bangjian (State Key Laboratory of Infrared Physics, Shanghai Institute of Technical Physics, Chinese Academy of Sciences); ZHAO, Yongjiang (State Key Laboratory of Infrared Physics, Shanghai Institute of Technical Physics, Chinese Academy of Sciences); TAN, Han (State Key Laboratory of Infrared Physics, Shanghai Institute of Technical Physics, Chinese Academy of Sciences)

THU-PO3-802-02: A preliminary cryogenic performance test of the 4.8-m-long cryostat for superconducting undulators

SHIROYANAGI, Yuko (Argonne National Laboratory); ANLIKER, Ethan (Argonne National Laboratory);

HU, Hong (Argonne National Laboratory); KESGIN, Ibrahim (Argonne National Laboratory); KASA, Matthew (Argonne National Laboratory); HASSE, QUENTIN (Argonne National Laboratory); IVANYUSHENKOV, Yury (ANL)

THU-PO3-802-03: Conceptual design of a magnetic refrigerator for cooling quantum computers

KAMIYA, Koji (National Institute for Materials Science); SAITO, Akiko T. (National Institute for Materials Science); NUMAZAWA, Takenori (National Institute for Materials Science); TAKADA, Suguru (National Institute for Fusion Science)

THU-PO3-802-04: Cryostat design for HTS conductors test in the field of 19.5 T @200 mm bore

ZHANG, Kai ([1]Hefei Institutes of Physical Science, Chinese Academy of Sciences, Hefei 230031, China [2]University of Science and Technology of China); LI, Junjie (Hefei Institutes of Physical Science, Chinese Academy of Sciences); JIANG, Donghui (Hefei Institutes of Physical Science, Chinese Academy of Sciences)

THU-PO3-802-05: Cryostat for HECRAL Superconducting Magnet

WANG, Xudong ((Institute of Modern Physics, Chinese Academy of Sciences); YANG, Tongjun (Institute of Modern Physics, Chinese Academy of Sciences); ZHU, li; ZHENG, shijun (Institute of Modern Physics, Chinese Academy of Sciences); QIAN, Cheng (Institute of Modern Physics, Chinese Academy of Sciences); WU, Wei (Institute of Modern Physics, Chinese Academy of Sciences); SUN, Liangting (Institute of Modern Physics, CAS); LI, Chao; ZHOU, Tao

THU-PO3-802-06: Design of a helium-liquid hydrogen based indirect cooling system for an HTS coil cooling

NAM, Gi-Dong (Changwon National University); SUNG, Hae-Jin (Changwon National University); NOH, Hyun-Woo (Korea Electric Research Institute); KOO, Tea-Hyung (Korea Electric Research Institute); KO, Rock-Kil (Korea Electric Research Institute); HA, Dong-Woo (Korea Electric Research Institute); PARK, Minwon (Changwon National University)

THU-PO3-802-07: Fermilab’s Horizontal Test Stand Cryogenic System Upgrade and Commissioning

RABEHL, Roger (Fermilab); AL ATASSI, Omar (Fermilab); CHLACHIDZE, Guram (Fermilab); FEHER, Sandor (Fermilab); KOSHELEV, Sergey (Fermilab); RANPARIYA, Shreya (Fermilab)

THU-PO3-802-08: HTS coil cooled with liquid hydrogen and fuel cell power source

HA, Dong-Woo (Korea Electrotechnology Research Institute); KO, Rock Kil (Korea Electrotechnology Research Institute); NOH, Hyun-Woo (Korea Electric Research Institute); KOO, Tae-Hyung (Korea Electrotechnology Research Institute)

THU-PO3-802-09: Research on combined use of magnetic refrigeration technology for refrigerant circulation type high temperature superconducting coil cooling system

OKAZAKI, Yodai (Tokyo Institute of Technology); OKAMURA, Tetsuji (Tokyo Institute of Technology); NOGUCHI, Masazumi (Tokyo Institute of Technology); TAKAZAWA, Takumi (Tokyo Institute of Technology); HIRANO, Naoki (National Institute for Fusion Science)

THU-PO3-802-10: Structural Design and Analysis of Cryogenic System for 3.5 T HTS Magnetic Separation Facility
GUO, Liang; LIU, Huajun (Chinese Academy of Sciences); GUO, Qiudong (Chongqing Academy of science and technology); MA, Hongjun (Institute of Plasma Physics)

THU-PO3-802-11: Study of refrigerant circulation system and cryofan for cooling high temperature superconducting coils.
NOGUCHI, Masazumi (Tokyo Institute of Technology); OKAMURA, Tetsuji (Tokyo Institute of Technology); HIRANO, Naoki (NIFS); TAKAZAWA, Takumi (Tokyo Institute of Technology); OKAZAKI, Youdai (Tokyo Institute of Technology)

THU-PO3-802-12: Study on Forced Flow Cooling of Superconducting Magnet for Compact Synchrotron
QIAO, Weiyu (Institute of Modern Physics, Chinese Academy of Sciences) ; MA, Lizhen (Institute of Modern Physics, Chinese Academy of Sciences); NI, Dongsheng (Institute of Modern Physics, Chinese Academy of Sciences); WU, Wei (Institute of Modern Physics, Chinese Academy of Sciences); WANG, Xudong (Institute of Modern Physics, Chinese Academy of Sciences); WANG, Lishi (Institute of Modern Physics, Chinese Academy of Sciences)

THU-PO3-802-13: Study on the state prediction of the superconducting magnet system for a nuclear fusion experimental device by machine learning
OBANA, Tetsuhiro (NIFS)

THU-PO3-802-14: Thermodynamic Behavior Analysis and Heat Transfer Structure Design of Helium Bubble Aggregation in High Field Superconducting Magnets
ZHANG, Zhan (Chinese Academy of Sciences (CAS)); HONG, Wenzhe; LIU, Huajun (Chinese Academy of Sciences)

THU-PO3-802-15: The study on the quench helium release process of HFRS superconducting magnet
WANG, Lishi; MA, Lizhen (Institute of Modern Physics, Chinese Academy of Sciences); NI, Dongsheng (Institute of Modern Physics, Chinese Academy of Sciences); WU, Wei (Institute of Modern Physics, Chinese Academy of Sciences); WANG, Xudong (Institute of Modern Physics, Chinese Academy of Sciences); ZHU, Li (Institute of Modern Physics, Chinese Academy of Sciences); QIAO, Weiyu (Institute of Modern Physics, Chinese Academy of Sciences)

On-line 7:00 - 8:00, On-site 10:00 - 12:00, On-line 21:00 - 22:00

2F Multipurpose Hall

THU-PO3-803 Current supply, regulation & cryogenic power electronics

Session Moderator: Hiroshi Miyazaki, Kyusyu University

THU-PO3-803-01: A novel cryogenic model for SiC MOSFET
TIAN, Chenyu; GUO, Wenyong (Institute of Electrical Engineering, Chinese Academy of Science);

SANG, Wenju; CAI, Yang; YU, Suhang; XIAO, Liye

THU-PO3-803-02: A temperature and over current controlled persistent current switch for high temperature superconducting magnets
BI, Yanbo (Shanghai Jiaotong University); LI, Xiao-Fen (Shanghai Jiao Tong University); CHEN, Yi-wen (Shanghai Jiao Tong University); CHEN, Dachuan (Shanghai Jiao Tong University); ZHOU, Hao (Shanghai Jiao Tong University); JIN, Zhijian (Shanghai Jiao Tong University)

THU-PO3-803-03: Concept Design of Power Source for High Temperature Superconducting Ship Deperming Coil System
HIROTA, Megumi (Naval Ship M&UEP R.C., NPO)

THU-PO3-803-04: Control the Output of an HTS Dynamo with a DC Background Field
XU, Hang (Sichuan University); WANG, Wei (Sichuan University)

THU-PO3-803-05: Design and study of a new type of series active filter for the 10MW-level high power and high stability DC power supply
SONG, MinHui (Hefei Institutes of Physical Science, Chinese Academy of Scienc); FEI, Wei (Hefei Institutes of Physical Science, Chinese Academy of Sciences); ZHANG, Hao (Hefei Institutes of Physical Science, Chinese Academy of Sciences); LIU, XiaoNing (Hefei Institutes of Physical Science, Chinese Academy of Sciences)

THU-PO3-803-06: Feasibility Study of Thyristor Rectifier with Unity Power Factor for Superconducting Magnet in Tokamak
HATAKEYAMA, Shoichi (National Institutes for Quantum and Radiological Science and Technology); SHIMADA, Katsuhiro (National Institutes for Quantum and Radiological Science and Technology); YAMAUCHI, Kunihito (National Institutes for Quantum and Radiological Science and Technology); OKANO, Jun (National Institutes for Quantum and Radiological Science and Technology); OHMORI, Yoshikazu (National Institutes for Quantum and Radiological Science and Technology); TERAKADO, Tsunehisa (National Institutes for Quantum and Radiological Science and Technology); TAKAHASHI, Koji (National Institutes for Quantum and Radiological Science and Technology)

THU-PO3-803-07: Power supply design for HTS degaussing coils
WIKKERINK, Djurre (Delft University of Technology); POLINDER, Henk (Delft University of Technology); RODRIGO MOR, Armando (Delft University of Technology); ROSS, Robert (Delft University of Technology)

THU-PO3-803-08: Structure Optimization of Linear Generator Coil in No-contact On-board Power Source for EDS Maglev
LI, Yuxiao (southwest jiaotong university); ZHOU, Pengbo (Southwest Jiaotong University); GONG, Tianyong (Southwest Jiaotong University); SU, Zhenhua (Southwest Jiaotong University); MA, Guangtong (Southwest Jiaotong University)

On-line 7:00 - 8:00, On-site 10:00 - 12:00, On-line 21:00 - 22:00

2F Multipurpose Hall

THU-PO3-LN2 Late News II

Session Moderator: Satoshi Awaji , Tohoku University

THU-PO3-LN2-01: A Flexible Control System Design of Pulsed High Magnetic Field Facility based on Physical Model

LIU, Xiaojian (Huazhong University of Science and Technology); SHI, Jiangtao (Huazhong University of Science and Technology); XIE, jianfeng (Huazhong University of Science and Technology); LI, Liang (Huazhong University of Science and Technology); HAN, Xiaotao (Huazhong University of Science and Technology)

THU-PO3-LN2-02: Analysis and design of Control Sequence for Multi-Stage and Ultrahigh Magnetic System at WHMFC

SHI, Jiangtao (Huazhong University of Science and Technology); ZHANG, Shaozhe (Wuhan National High Magnetic Field Center,Huazhong University of Science and Technology); HAN, Xiaotao (Wuhan National High Magnetic Field Center, Huazhong University of Science and Technology); XIE, jianfeng (Huazhong University of Science and Technology)

THU-PO3-LN2-03: Automatic Detection of Local Obstacles in a Long Length RE-123 Coated Conductor by Deep Learning Based Image Classification in Reel-to-Reel Magnetic Microscopy

SOMJAIJAROEN, Natthawirot (Kyushu University); KISS, Takanobu (Kyushu University); IMAMURA, Kazutaka (Kyushu University); HIGASHIKAWA, Kohei (Kyushu University)

THU-PO3-LN2-04: Presentation withdrawn

THU-PO3-LN2-05: Contact Resistance Dependent Transient Loss of REBCO No-insulation Magnet using T-A formula during Ramping Process

LIU, Quanyue (Changwon National University); KIM, Seokho (Changwon National University)

THU-PO3-LN2-06: Design and Quench Analysis of a Cryogen-Free Superconducting Magnet for 170-GHz Gyrotron

JANG, Jaeyoung (Korea university of technology and education); NAM, Seokho (JH engineering Company Ltd.); LEE, Seungje (ITER Organization)

THU-PO3-LN2-07: Design of Pulsed Power Supply for Repetitive Pulsed High Magnetic Field for Water Electrolysis

JIANG, shan (Huazhong University of Science and Technology); HU, Heng (Huazhong University of Science and Technology); WANG, shuang (Huazhong University of Science and Technology); LI, Liang (Wuhan National High Magnetic Field Center, Huazhong University of Science and Technology); PENG, Tao (Wuhan National High Magnetic Field Center)

THU-PO3-LN2-08: Effect of current-sharing and heat capacity of metal core on quench protection of spiral coated conductors
XU, Guangwei (Kyoto University); LUO, Xijie (Kyoto University); ZHAO, Yifan (Kyoto University); SOGABE, Yusuke (Kyoto University); AMEMIYA, Naoyuki (Kyoto University)

THU-PO3-LN2-09: Enhancement of magnetic flux distribution using roundly stacked-HTS tape
TSUZUKI, KEITA (National Institute of Technology, Toyota College); KAMBE, Norihito (National Institute of Technology, Toyota College); OIKAWA, Dai (National Institute of Technology, Toyota College); ANDOH, Hiroya (National Institute of Technology); TSUKAMOTO, Takehiko (National Institute of Technology, Toyota College)

THU-PO3-LN2-10: Influence of Stainless Steel Shell on the 100 T Pulsed Magnet
WANG, Shuang (Huazhong University of Science and Technology); PENG, Tao (Wuhan National High Magnetic Field Center); JIANG, Fan; JIANG, shan; LI, Liang (Huazhong University of Science and Technology)

THU-PO3-LN2-11: Novel Pb- and Cd-free superconducting joint between NbTi and Nb3Sn wires using high-temperature-tolerable superconducting Nb-alloy intermedia
UCHIDA, Akira (National Institute for Materials Science); KOBAYASHI, Kensuke (National Institute for Materials Science); BANNO, Nobuya (National Institute for Materials Science); KITAGUCHI, Hitoshi (National Institute for Materials Science (NIMS))

THU-PO3-LN2-12: Reliability Analysis of Pulsed High Magnetic Field Facility at WHMFC
SHI, Jiangtao (Huazhong University of Science and Technology); ZHANG, Shaozhe (Wuhan National High Magnetic Field Center,Huazhong University of Science and Technology); HAN, Xiaotao (Wuhan National High Magnetic Field Center, Huazhong University of Science and Technology); XIE, jianfeng (Huazhong University of Science and Technology); FAN, Junxian (Huazhong University of Science and Technology)

THU-PO3-LN2-13: State predictive control of modular SMES magnet based on deep reinforcement learning
ZHANG, Zitong (Huazhong University of Science and Technology); SHI, Jing (Huazhong University of Science and Technology); GUO, Shuqiang (Huazhong University of Science and technology); LIN, Dengquan (Huazhong University of Science and Technology)

FRIDAY, NOBEMBER 19, 2021

7:30 - 9:30 3F Main Hall

FRI-OR6-701 Design and Analysis

Session Moderators: So Noguchi, Hokkaido University and Honghai Song, Stony Brook University

07:30 **FRI-OR6-701-01: Quasi-3D Magneto-Thermal Quench Simulation of Superconducting Magnets**
D'ANGELO, Laura (TU Darmstadt) Co-author: DE GERSEM, Herbert (TU Darmstadt)

07:45 **FRI-OR6-701-02: An Optimal Configuration Method of Superconducting Magnet with Iron Shield using Model Order Reduction**
NOGUCHI, So (Hokkaido University); UEDA, Hiroshi (Okayama University); WATANABE, Tomonori (Chubu.Electric.Power Co., Inc.); NAGAYA, Shigeo (Chubu Electric Power CO., Inc); ISHIYAMA, Atsushi (Waseda University); FUKUDA, Mitsuhiro (Osaka University)

08:00 **FRI-OR6-701-03: A complete, coupled model for Electro-Magnetic, Electro-Thermal and Mechanical analysis for axi-symmetric coils using variational principles**
DADHICH, Anang (Institute of Electrical Engineering, Slovak Academy of Sciences); PARDO, Enric (Institute of Electrical Engineering, Slovak Academy of Sciences)

08:15 **FRI-OR6-701-04: Multiphysics field topology optimization design of heat conduction structure of high-temperature superconducting magnets**
SHAO, QING; LI, KAI; SHAO, NAN

08:30 **FRI-OR6-701-05: Evaluation of the screening current effect in an all-superconducting high-field magnet**
LIU, XiaoGang (Institute of Plasma Physics); WANG, Dongquan (Institute of Plasma Physics); WU, Fan (Institute of Plasma Physics); GAO, Xiang (Institute of Plasma Physics); WU, Yu (Institute of Plasma Physics); LI, Jiangang (Institute of Plasma Physics)

08:45 **FRI-OR6-701-06: Simulation of Quench Transients in Self-Protecting Magnets with a 3D Semi-Implicit Finite-Difference Method**
RAVAIOLI, Emmanuele (CERN); ARNEGAARD, Ola Tranum (Norwegian University of Science and and Technology (NTNU) (NO)); VERWEIJ, Arjan (CERN); WOZNIAK, Mariusz (CERN)

09:00 **FRI-OR6-701-07: Modeling stabilizer and superconducting inhomogeneities of commercial REBCO tapes with a 1-D electro-thermal model**
RIVA, Nicolo' (EPFL EPF Lausanne); GRILLI, Francesco (Karlsruhe Institute for Technology); DUTOIT, Bertand (EPFL)

09:15 **FRI-OR6-701-08: Variable inductance observed in the HTS non-insulation (NI) coils**
VENUTURUMILLI, Sriharsha (Robinson Research Institute, Victoria University of Wellington); BROOKS, Justin (Robinson Research Institute, Victoria University of Wellington); MATAIRA, Ratu (Robinson Research Institute, Victoria University of Wellington); BADCOCK, Rod (Robinson Research Institute, Victoria University of Wellington); BUMBY, Chris (Robinson Research Institute, Victoria University of Wellington. The MacDiarmid Institute of Advanced Materials and Nanotechnology, Victoria University of Wellington)

7:30 - 9:30 4F 409+410

FRI-OR6-101 Accelerator Magnets I: HFM and others applications

Session Moderators: Michinaka Sugano, KEK and Paolo Ferracin, LBNL

07:30 **FRI-OR6-101-01: [Invited] Main results and lessons learned from the MDPCT1 R&D program**
ZLOBIN, Alexander (Fermilab); NOVITSKI, Igor (FERMILAB); BALDINI, Maria; BARZI, emanuela (Fermilab); KASHIKHIN, Vadim (Fermilab); KRAVE, Steve (Fermilab); OROZCO, Charles (Fermi National Accelerator Laboratory); STOYNEV, Stoyan (Fermilab); TURRIONI, Daniele (FNAL (US))

07:45 **FRI-OR6-101-02: Analysis of quench data and performance of MDPCT1 – the 15 T Nb3Sn dipole demonstrator**
STOYNEV, Stoyan (FNAL (US)); BALDINI, Maria (FNAL (US)); BARZI, Emanuela (Fermilab (US)); CHLACHIDZE, Guram (Fermilab (US)); KASHIKHIN, Vadim (Fermilab (US)); KRAVE, Steve (Fermilab (US)); NOVITSKI, Igor (FERMILAB (US)); TURRIONI, Daniele (FNAL (US)); ZLOBIN, Alexander (Fermilab (US))

08:00 **FRI-OR6-101-03: Assembly and test results of RMM1a, a CERN technology demonstrator towards Nb3Sn ultimate performance**
GAUTHERON, Emma (CERN); PETRONE, Carlo (CERN); TOMMASINI, Davide (CERN); MANGIAROTTI, Franco Julio (CERN); FELICE, Helene (CERN); PEREZ, Juan Carlos (CERN); GUINCHARD, Michael (CERN); IZQUIERDO BERMUDEZ, Susana (CERN)

08:15 **FRI-OR6-101-04: Towards 20 T hybrid accelerator dipole magnets**
AMBROSIO, Giorgio (Fermilab); ARBELAEZ, Diego; BROUWER, Lucas (Lawrence Berkeley National Laboratory); BARZI, emanuela (Fermilab); COOLEY, Lance; GUPTA, Ramesh (BNL); JUCHNO, Mariusz (LBNL); KASHIKHIN, Vadim (Fermilab); MARINOZZI, Vittorio

(FNAL); NOVITSKI, Igor (FERMILAB); ROCHEPAULT, Etienne (CEA); STERN, Jillian (Tufts University); ZLOBIN, Alexander (Fermilab); FERRACIN, Paolo

08:30 **FRI-OR6-101-05: Progress of the High Field Magnet Program for SPPC**
XU, Qingjin (IHEP)

08:45 **FRI-OR6-101-06: Quadrupole Superconducting Model Magnet for Upgrade of the Nuclotron Synchrotron**
KHODZHIBAGIYAN, Hamlet (Joint Institute for Nuclear Research); KEKELIDZE, Vladimir (Joint Institute for Nuclear Research); MERKURIEV, Andrei (Joint Institute for Nuclear Research); NIKIFOROV, Dmitry (Joint Institute for Nuclear Research); NOVIKOV, Michael (Joint Institute for Nuclear Research); KUZNETSOV, Grigory (Joint Institute for Nuclear Research); TRUBNIKOV, Grigory (Joint Institute for Nuclear Research)

09:00 **FRI-OR6-101-07: Superconducting magnet system for HIAF**
WU, Wei (Institute of Modern Physics, Chinese Academy of Sciences); MEI, Enming (IMPCAS); YOU, Wei (Institute of Modern Physics, Chinese Academy of Sciences); CHEN, Yuquan; WU, Beimin (Institute of Modern Physics, Chinese Academy of Sciences); YANG, Tongjun (Institute of Modern Physics, Chinese Academy of Sciences); LIANG, Yu (Institute of Modern Physics,Chinese Academy of Sicences); WANG, Xudong ((Institute of Modern Physics, Chinese Academy of Sciences); ZHU, Li; NI, Dongsheng (Institute of Modern Physics Chinese Academy of Sciences); ZHENG, Shijun (Institute of Modern Physics, Chinese Academy of Sciences); OU, Xianjin; YANG, Wenjie (Institute of modern physics, Chinese academy of sciences); LU, Jiaqi (Institute of Modern Physics, Chinese Academy of Sciences); CHENG, yue (Institute of Modern Physics Chinese Academy of Sciences); SHENG, Lina (Institute of Modern Physics, Chinese Academy of Sciences); WANG, Geng (Institute of Modern Physics, Chinese Academy of Sciences); YAO, Qinggao (Institute of Modern Physics, Chinese Academy Sciences); SUN, Liangting (Institute of Modern Physics, CAS); YANG, Jiancheng (Institute of Modern Physics, Chinese Academy of Sciences)

09:15 **FRI-OR6-101-08: Construction status of the superconducting magnet system for the COMET experiment**
SUMI, Naoyuki (KEK); YOSHIDA, Makoto (KEK); IIO, Masami (KEK); SASAKI, Kenichi (KEK); MAKIDA, Yasuhiro (KEK); OKAMURA, Takahiro (KEK); OHATA, Hirokatsu (KEK); ONAKA, Masaya (KEK); KUROSAWA, Noriyuki (KEK); FUKAO, Yoshinori (KEK); MIHARA, Satoshi (KEK)

7:30 - 9:30 4F 413+414

FRI-OR6-603 High Tc Wires and Cables II

Session Moderators: Naoyuki Amemiya, Kyoto University and Danko VAN DER LAAN, Advanced Conductor Technologies

07:30 **FRI-OR6-603-01: [Invited] Development of high-strength CORC® conductors with record-breaking irreversible axial tensile strain limit exceeding 7 %**
VAN DER LAAN, Danko (Advanced Conductor Technologies); WEISS, Jeremy (Advanced Conductor Technologies and University of Colorado, Boulder); RADCLIFF, Kyle (Advanced Conductor Technologies); BALACHANDRAN, Shreyas (NATIONAL HIGH MAGNETIC FIELD LAB); WANG, keyang (University of Twente); V A, Anvar (University Of Twente); NIJHUIS, Arend (University of Twente)

07:45 **FRI-OR6-603-02: Developing a Vacuum Pressure Impregnation Procedure for CORC® Wires**
STERN, Jillian (Tufts University and Lawrence Berkeley National Laboratory); CHIESA, Luisa (Tufts University); BOGDANOF, Timothy (Lawrence Berkeley National Laboratory); SWANSON, James (Lawrence Berkeley National Laboratory); VAN DER LAAN, Danko (Advanced Conductor Technologies); WANG, Xiaorong (Lawrence Berkeley National Laboratory); WEISS, Jeremy (Advanced Conductor Technologies and University of Colorado, Boulder)

08:00 **FRI-OR6-603-03: Designing and Manufacturing of REBCO-based Al-slotted core Cable-In–Conduit Conductors for quench experiments**
CELENTANO, Giuseppe (ENEA); AUGIERI, Andrea (ENEA); CHIARELLI, Sandro (ENEA); DE MARZI, Gianluca (ENEA, 00044 Frascati, Italy); FREDA, Rosa (ENEA); MARCHETTI, Marcello (ENEA); MUZZI, Luigi (ENEA); PINTO, Valentina (ENEA); VANNOZZI, Angelo (ENEA); ANEMONA, Alessandro (ICAS); FORMICHETTI, Andrea (ICAS); ZAPPATORE, Andrea (Politecnico di Torino); BONIFETTO, Roberto (Politecnico di Torino); ZANINO, Roberto (Politecnico di Torino); DELLA CORTE, Antonio (Enea)

08:15 **FRI-OR6-603-04: Design, manufacture and test of ReBCO CICC for CFETR**
ZHOU, Chao (Institute of Plasma Physics, Chinese Academy of Sciences) Co-author: WANG, Weijun (Institute of Plasma Physics Chinese Academy of Sciences)

08:30 **FRI-OR6-603-05: Performance of a test coil wound from defect-tolerant second generation cable**
SOLOVYOV, Vyacheslav (Brookhaven Technology Group); GUPTA, Ramesh (BNL); WILLIAM, Sampson (Brookhaven National Laboratory); MENDLESON, Zachary (Brookhaven Technology Group); BEN YAHIA, Anis (Brookhaven National Laboratory)

08:45 **FRI-OR6-603-06: Potential of Superconducting Joints Connecting Bi2223 Tapes**
SHIMOYAMA, Jun-ichi; TAKEDA, Yasuaki (National Institute for Materials Science); NAKAI, Ukyo (Aoyama Gakuin University); MIYAMOTO, Yoshinobu (Aoyama Gakuin University); MOTOKI, Takanori (Aoyama Gakuin Universiy)

09:00 **FRI-OR6-603-07: Measurement and Analyses of In-field Critical Currents in Multi-Filamentally Bi-2223 Tapes at Ultra-Low Electric-Field Criterion Down to at around 10^-13 V/m**
WU, Zeyu (Kyushu University); KISS, Takanobu (Kyushu University); TIAN, Shan (Kyushu University); KISHIKAWA, Sohki (Kyushu University); HIGASHIKAWA, Kohei (Kyushu University); YANAGISAWA, Yoshinori (RIKEN); SHIMOYAMA, Jun-ichi (Aoyama Gakuin

University)

09:15 **FRI-OR6-603-08: Performance of compact wind-and-react MgB_2 solenoid coil made with continuously produced cable**
BRYANT, Benjamin (Oxford Instruments Nanoscience); TWIN, Andrew (Oxford Instruments Nanoscience); DHULST, Chris (Bekaert); MESTDAGH, Jan (Bekaert); ATAMERT, Serdar (Epoch Wires); KUTUKCU, Mehmet (Epoch Wires); YOUNG, Edward (University of Southampton); PELEGRIN, Jorge (University of Southampton); BAILEY, Wendell Osbern; YANG, Yifeng

10:00 - 12:00 3F Main Hall

FRI-OR7-303 HTS coil II

Session Moderators: Yoshinori Yanagisawa, RIKEN and Iain Dixon, NHMFL

10:00 **FRI-OR7-303-01: Hybrid Microscopy to Clarify Failure Mechanisms of REBCO Tapes in Meter-Class Pancake-Coils**
KISS, Takanobu (Kyushu University); TAKARABE, Yusuke (Kyushu University); SHIGEOKA, Shun (Kyushu University); WU, Zeyu (Kyushu University); IMAMURA, Kazutaka (Kyushu University); HIGASHIKAWA, Kohei (Kyushu University); YOKOE, Daisaku (JFCC); ITOH, Taishi (JFCC); KATO, Takeharu (JFCC); MIURA, Hideaki (MITSUBISHI ELECTRIC Corp.); HATTORI, Taisuke (MITSUBISHI ELECTRIC Corp.); OYA, Masayoshi (Mitsubishi Electric Corporation); TONOOKA, Shun (Mitsubishi Electric Corp.)

10:15 **FRI-OR7-303-02: Presentation withdrawn**

10:30 **FRI-OR7-303-03: Integration of Bi-2212 and Nb3Sn CCT magnets for a hybrid magnet test**
GARCIA FAJARDO, Laura (Lawrence Berkeley National Laboratory); SHEN, Tengming (Lawrence Berkeley National Laboratory); ARBELAEZ, Diego (Lawrence Berkeley National Laboratory); BOSQUE, Ernesto (National High Magnetic Field Laboratory); BROUWER, Lucas (Lawrence Berkeley National Laboratory); CASPI, Shlomo (Lawrence Berkeley National Laboratory); ENGLISH, Lamar (National High Magnetic Field Laboratory); FERRACIN, Paolo (Lawrence Berkeley National Laboratory); GOURLAY, Stephen (Lawrence Berkeley National Laboratory); HAFALIA, Aurelio (Lawrence Berkeley National Laboratory); MARCHEVSKY, Maxim (Lawrence Berkeley National Laboratory); MYERS, Cory (Lawrence Berkeley National Laboratory); PONG, Ian (Lawrence Berkeley National Laboratory); PRESTEMON, Soren (Lawrence Berkeley National Laboratory); RUDEIROS FERNANDEZ, Jose Luis (Lawrence Berkeley National Laboratory); WANG, Xiaorong (Lawrence Berkeley National Laboratory)

10:45 **FRI-OR7-303-04: Development of a small-aperture cos-theta dipole insert coil based on Bi2212 Rutherford cable and stress management structure**
ZLOBIN, Alexander (Fermilab); NOVITSKI, Igor (Fermilab); BARZI, emanuela (Fermilab);

TURRIONI, Daniele (FNAL (US))

11:00 **FRI-OR7-303-05: Experimental Study on Effectiveness of Different Reinforcement Layouts Applied to Recent Bi-2212 Test Coils**
KIM, Youngjae (National High Magnetic Field Laboratory); TROCIEWITZ, Ulf (NHMFL); BOSQUE, Ernesto (National High Magnetic Field Laboratory); DAVIS, Daniel (FSU/NHMFL); ENGLISH, Lamar (National High Magnetic Field Laboratory); MILLER, George (ASC, NHMFL); KVITKOVIC, Jozef (Florida State University); JIANG, Jianyi (Florida State University); LARBALESTIER, David (National High Magnetic Field Laboratory)

11:15 **FRI-OR7-303-06: Development of HTS conductor for the central solenoid of compact fusion reactor TRT**
SYTNIKOV, Victor (R&D Center @ Federal Grid Company); LELECHOV, Sergey (ITER Design Center); ZUBKO, Vasily (R&D Center of FGC UES)

11:30 **FRI-OR7-303-07: Presentation withdrawn**

11:45 **FRI-OR7-303-08: Presentation withdrawn**

10:00 - 12:00 4F 409+410

FRI-OR7-502 SMES, Superconducting Transformers, Cables and Bulks

Session Moderators: Shinichi Nomura, Meiji Universirty and Kohei Higashikawa , Kyusyu University

10:00 **FRI-OR7-502-01: [Invited] 15% reduction in AC loss of a 3-phase 1 MVA HTS transformer by exploiting asymmetric conductor critical current**
JIANG, Zhenan (Victoria University of Wellington); SONG, Wenjuan (University of Bath); PEI, Xiaoze (University of Bath); JIN, Fang (Beijing Jiaotong University); BADCOCK, Rod (Victoria University of Wellington); WIMBUSH, Stuart (Victoria University of Wellington)

10:15 **FRI-OR7-502-02: Operation Scenario of Mobile SMES for On-Site Eigenvalue Measurement of Electric Power System**
NOMURA, Shinichi (Meiji University); KAMADA, Hiroharu (Meiji University); XU, Hang (Meiji University); NITTA, Tanzo (The University of Tokyo); SHINTOMI, Takakazu (KEK); HIRANO, Naoki (National Institute for Fusion Science); MIURA, Yushi (Nagaoka University of Technology)

10:30 **FRI-OR7-502-03: Development of DC Superconducting Cable with Magnetic Energy Storage Function for Compensating Power Fluctuation from Renewable Energy Sources**
HIGASHIKAWA, Kohei (Kyushu University); KANNO, Takafumi (Kyushu University); NOGATA, Shuya (Kyushu University); SATO, Yosei (Kyushu University); KISS, Takanobu

(Kyushu University)

10:45 **FRI-OR7-502-04: Development of superconducting magnetic energy storage for the power system of the particle accelerators Booster and Nuclotron of NICA**
NOVIKOV, Mikhail (Joint Institute for Nuclear Research); KHODZHIBAGIYAN, Hamlet (Joint Institute for Nuclear Research); SONG, Yuntao (Institute of Plasma Physics, Chinese Academy of Science); ZHENG, Jinxing (Institute of Plasma Physics, Chinese Academy of Science); KARPINSKIY, Viktor (Joint Institute for Nuclear Research); NIKIFOROV, Dmitry (Joint Institute for Nuclear Research); DROBIN, Valeriy (Joint Institute for Nuclear Research); BORTSOVA, Alyona (Joint Institute for Nuclear Research, Russia); LOSHMANOVA, Ksenia (Joint Institute for Nuclear Research, Russia); NEAPOLITANSKIY, Denis (Joint Institute for Nuclear Research); SHURYGIN, Alexandr (Joint Institute for Nuclear Research, Russia); LI, Ming (Institute of Plasma Physics, Chinese Academy of Science); ZASLAVSKIY, Maxim (Joint Institute for Nuclear Research); MATYUKHANOV, Evgeniy (Joint Institute for Nuclear Research); KONDRATIEV , Bogdan (Joint Institute for Nuclear Research)

11:00 **FRI-OR7-502-05: [Invited] Portable, desktop high-field magnet systems using bulk high-temperature superconductors**
AINSLIE, Mark (University of Cambridge); TSUI, Yeekin (University of Cambridge); MOSELEY, Dominic (University of Cambridge); DENNIS, Anthony (University of Cambridge); SHI, Yunhua (University of Cambridge); BECK, Mike (University of Cambridge); CIENTANNI, Vito (University of Cambridge); CARDWELL, David (University of Cambridge); DURRELL, John (University of Cambridge)

11:15 **FRI-OR7-502-06: Presentation withdrawn**

11:30 **FRI-OR7-502-07: Numerical modeling of the pulse field magnetization of the bulk array used as the field poles of a superconducting machine**
CAUNES, Antomne (Tokyo University of Marine Science and Technology) ; IMAMICHI, Hayato (Tokyo University of Marine Science and Technology); KAWASUMI, Nagisa (Tokyo University of Marine Science and Technology); IZUMI, Mitsuru (TOKYO UNIVERSITY OF MARINE SCIENCE AND TECHNOLOGY (TUMSAT)); IDA, Tetsuya (Tokyo University of Marine Science and Technology)

11:45 **FRI-OR7-502-08: Trapped Field Characteristics of K-doped Ba122 Polycrystalline Bulks Synthesized by Spark Plasma Sintering**
TOKUTA, Shinnosuke (Tokyo University of Agriculture and Technology) ; HASEGAWA, Yuta (Tokyo University of Agriculture and Technology); OKADA, Yuki (Tokyo University of Agriculture and Technology); ISHII, Akimitsu (Tokyo University of Agriculture and Technology); YAMANAKA, Akinori (Tokyo University of Agriculture and Technology); SHIMADA, Yusuke (Tohoku University); HATA, Satoshi (Kyushu University); YAMAMOTO, Akiyasu (Tokyo University of Agriculture and Technology)

10:00 - 11:00 4F 413+414

FRI-OR7-801 Cryogenics

Session Moderators: Toshiyuki Mito, NIFS and Yu Wu, Institute of Plasma Physics Chinese Academy of Sciences (ASIPP)

10:00 **FRI-OR7-801-01: Presentation withdrawn**

10:15 **FRI-OR7-801-02: Thermal characteristics of JT-60SA thermal shield**
NATSUME, Kyohei (National Institutes for Quantum and Radiological Science and Technology); FUKUI, Kazuma (National Institutes for Quantum and Radiological Science and Technology); ONISHI, Yoshihiro (National Institutes for Quantum and Radiological Science and Technology); KAWANO, Katsumi (National Institutes for Quantum and Radiological Science and Technology); OHTSU, Kiichi (National Institutes for Quantum and Radiological Science and Technology); NAKAMURA, Shigetoshi (National Institutes for Quantum and Radiological Science and Technology); NISHIYAMA, Tomokazu (National Institutes for Quantum and Radiological Science and Technology); SHIBAMA, Yusuke (National Institutes for Quantum and Radiological Science and Technology); HAMADA, Kazuya (National Institutes for Quantum and Radiological Science and Technology)

10:30 **FRI-OR7-801-03: Feasibility of different cryogenic systems for ReBCO coils based high-dynamic superconducting actuators**
TER HARMSEL, Jeroen (University of Twente); OTTEN, Simon (University of Twente); DHALLÉ, Marc (University of Twente); TER BRAKE, Marcel (University of Twente); TEN KATE, Herman (University of Twente)

10:45 **FRI-OR7-801-04: Design and experimental investigations on the helium circulating cooling system operating at around 20 K for a 10-Mvar class HTS dynamic synchronous condenser**
TAN, Jun (State Key Laboratory of Infrared Physics, Shanghai Institute of Technical Physics, Chinese Academy of Sciences); XUE, Renjun (State Key Laboratory of Infrared Physics, Shanghai Institute of Technical Physics, Chinese Academy of Sciences); ZHAO, Bangjian (State Key Laboratory of Infrared Physics, Shanghai Institute of Technical Physics, Chinese Academy of Sciences); ZHAO, Yongjiang (State Key Laboratory of Infrared Physics, Shanghai Institute of Technical Physics, Chinese Academy of Sciences); TAN, Han (State Key Laboratory of Infrared Physics, Shanghai Institute of Technical Physics, Chinese Academy of Sciences); ZHANG, Tao (State Key Laboratory of Infrared Physics, Shanghai Institute of Technical Physics, Chinese Academy of Sciences); DANG, Haizheng (State Key Laboratory of Infrared Physics, Shanghai Institute of Technical Physics, Chinese Academy of Sciences)

14:00 - 14:45 **3F Main Hall**

Plenary: Masaru Tomita (Railway Technical Research Institute)

Magnet Technology for Train

Session Moderators: Jimoyama Shimoyama , Aoyama University and Nicholas Long, VUW

14:00 **FRI-PL6: [Plenary] Magnet Technology for Train**
TOMITA, Masaru (Railway Technical Research Institute)

14:45 – 15:15 **3F Main Hall**

Closing

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Social event

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TOKUNAGA, Keisuke: TUE-PO1-715-03
TOKUTA, Shinnosuke: THU-PO3-605-10, FRI-OR7-502-08
TOMARCHIO, Valerio: THU-PO3-206-01
TOMAS, Goncalo: WED-OR3-503-01
TOMASSETTI, Giordano: THU-PO3-205-05, THU-PO3-206-10
TOMIHISA, Takuma: THU-PO3-612-04, THU-PO3-612-06, THU-PO3-612-08
TOMII, Keita: WED-PO2-507-08
TOMITA, Masaru: FRI-PL6
TOMMASINI, Davide: TUE-PO1-110-02, THU-OR4-401-03, THU-OR4-401-05, FRI-OR6-101-03
TOMSIC, Michael: TUE-PO1-705-08, THU-OR5-601-01, THU-PO3-404-08, THU-PO3-404-10, THU-PO3-710-06
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TONOOKA, Shun: THU-OR4-401-02, FRI-OR7-303-01
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TORAL, Fernando: TUE-PO1-720-04, WED-OR2-103-07, WED-SS-03, WED-PO2-706-09
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TRAVERSO, Andrea: WED-PO2-610-01
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TRONZA, Vladimir: THU-OR5-601-07
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TSUCHIYA, Kiyosumi: THU-PO3-617-01, THU-PO3-707-09, THU-PO3-710-07
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TSUDA, Makoto: TUE-PO1-504-04, THU-OR4-704-08, THU-PO3-719-05, THU-PO3-719-12
TSUI, Yeekin: FRI-OR7-502-05
TSUKAMOTO, Osami: TUE-PO1-509-10, TUE-PO1-705-05, WED-PO2-507-06
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TSUTOMU, Hemmi: TUE-PO1-203-14
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TSUTSUMI, Fumiaki: THU-OR4-202-03
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TURQUETI, Marcos: TUE-PO1-606-03, WED-OR2-703-08, FRI-OR7-303-07
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UENO, Tomoaki: THU-PO3-117-04
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VELEV, Gueorgui: TUE-PO1-705-07, WED-PO2-723-04, FRI-OR7-303-08

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VORAN, Adam: TUE-PO1-305-13, WED-OR2-302-04
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WANG, Jian: WED-PO2-105-11
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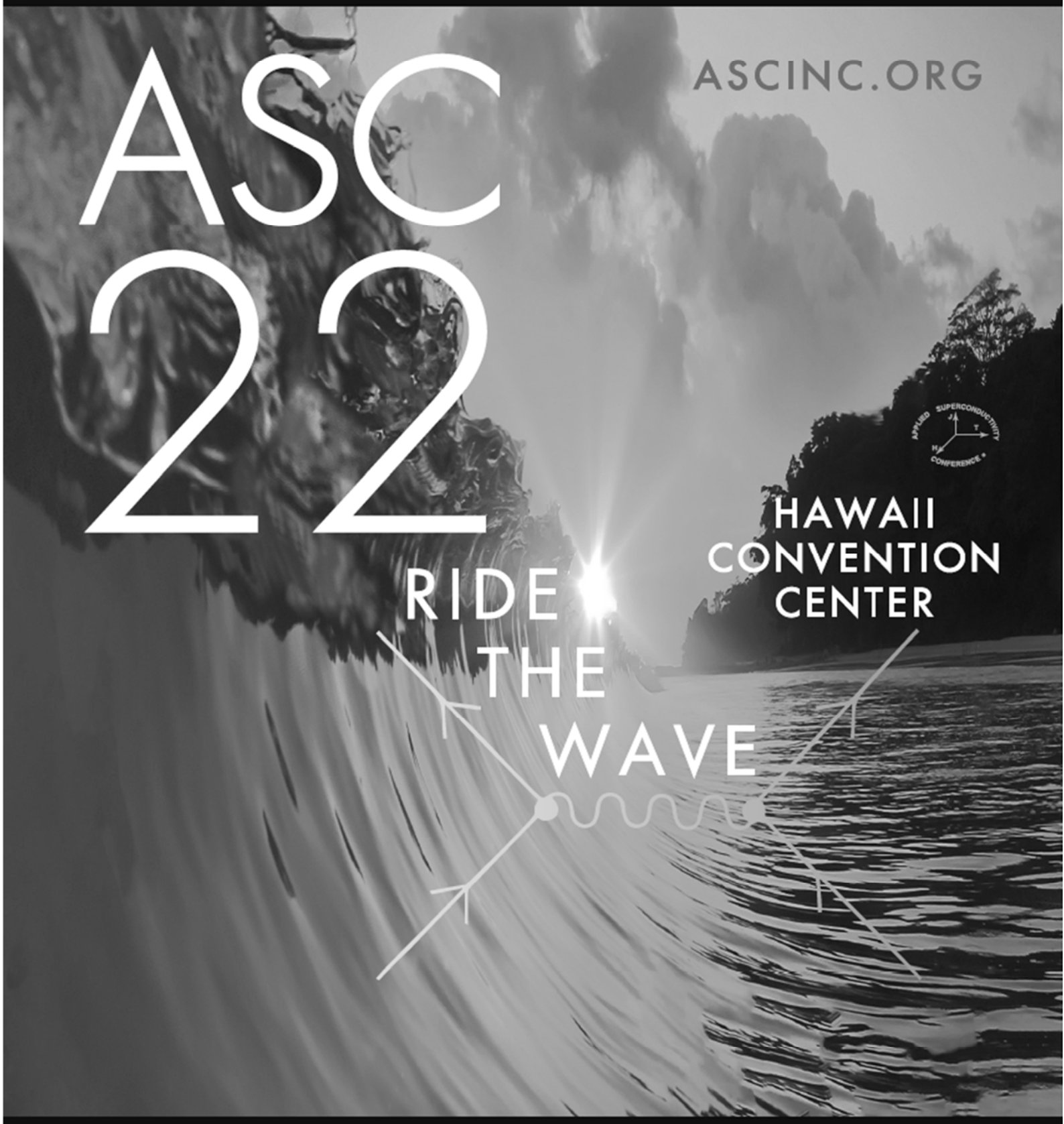

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Tohoku University

Nuclear **M**aterials

IRCNMS (Oarai) : International Research Center for Nuclear Materials

High **M**agnetic **F**ield

HFLSM: High Field Laboratory for Superconducting Materials

Neutron **S**cience

CN: Center of Neutron Science for Advanced Materials

Computer **S**cience

CCMS: Center for Computational Materials Science

Advanced **M**aterials

CRDAM: Cooperative Research and Development Center for Advanced Materials

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GIMRT (Global Institute for Materials Research Tohoku) is a program in which researchers from inside and outside the institute conduct joint research based on a common research theme. As a hub that connects domestic and foreign researchers in the field of materials science, IMR supports the development of international collaborative research activities.

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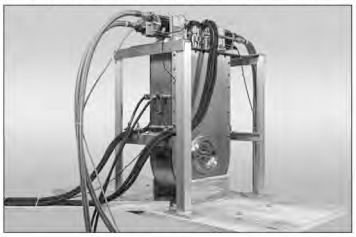
Research IMRT

Advancing Low and High Temperature SUPERCONDUCTING MAGNET TECHNOLOGIES

Recent advances in superconductor technology, especially high-temperature superconductors (HTS), have revolutionized industries from defense and transportation to energy, medicine, and basic science. Magnets employing superconducting (SC) material can achieve significantly higher magnetic fields at much greater efficiencies than those relying on non-SC materials. HTS magnets in particular offer considerable promise for these applications due to the higher fields, reduced complexity, and smaller footprints that are possible.



The completed HTS magnet

General Atomics (GA) has been working on SC magnet applications since the mid-1980s. As part of these efforts, GA has developed multiple large SC magnet systems, including more than 1,000 magnets for MRI applications, homopolar motors, as well as the Holloman High Speed Maglev Test Track project built for the U.S. Air Force at Holloman AF Base in New Mexico.

In 2011, GA was engaged to manufacture the Central Solenoid Modules for the ITER fusion device currently under construction in France. At the heart of the ITER facility will be the Central Solenoid, the largest pulsed SC magnet ever constructed. The five-story, 1,000-ton Central Solenoid will be composed of six individual modules, which are being fabricated from a total of 36 kilometers of Nb3Sn cable-in-conduit conductor.

Because of the large size of the ITER Central Solenoid, the project required an entirely new manufacturing facility. In developing this facility, GA had an additional goal that it would be appropriate for design, fabrication and testing of magnets for a broad range of applications beyond ITER. This would include a laboratory capable of manufacturing REBCO-based HTS magnets.

The result was GA's Magnet Technologies Center in Poway, California, a state-of-the-art facility that can perform all stages of low-temperature SC magnet fabrication, including but not limited to final design and engineering, conductor winding, joining, heat treatment, module insulation (turn to turn and ground), vacuum pressure impregnation, and full-scale testing. As part of the Central Solenoid program, GA has recently completed the testing of the first two ITER modules, including power testing up to 40 kiloamps at 4K and room-temperature Paschen tests to 15 kilovolts in a wide range of vacuum pressures. The modules for assembly into ITER started shipping in 2021.

The conductor winding station is capable of forming 900 meters of the 49-mm square cable-in-conduit conductor having a current capacity of 50 kiloamps into six layers of a module. Each coil is wound with a constant radius and radial/axial joggles to ensure a high packing factor of the modules. The system is also capable of helix winding and adaptable to other conductors and coil geometries.

Heat treatment for the Nb3Sn modules is conducted inside an inert-atmosphere convection furnace that can reach temperatures of up to 650°C and achieve hold-point accuracy of +/- 5°C. The furnace is capable of heat treating modules up to 4.2 meters in diameter and 3 meters in height with a mass of 110 tonnes, a world-wide first. To date, six modules have been successfully heat treated. The heating system includes multiple redundancies to prevent failure and includes a 1-megawatt backup diesel generator.

The resin injection station performs vacuum drying of the insulation surrounding the large coils, and prepares the volume for resin injection and heating for curing the injected resin. The resin components are degassed separately and mixed during the injection process to maximize the pot life. Currently, the system has prepared and injected 4,000 liters of mixed resin in each of the first four coils.

The testing facility has all the necessary equipment for testing large coils, including a cryostat that can accommodate SC coils up to 4.4 meters diameter and 3 meters tall. A supercritical helium system capable of 1-kilowatt refrigeration power at 4.5K is available for cooling the coils for testing. The feeder system, with 55-kiloamp HTS current leads, provides precise control for the cryogen flow. The facility also includes a 0.5MW DC power supply, as well as a fast discharge system to absorb up to 1 gigajoule of stored energy.

Four ITER CS production modules in various stages of fabrication

In the HTS magnet laboratory, GA has developed a 40-mm warm-bore, non-insulated magnet wound from 500 meters of 12 mm REBCO tape. This innovative double-pancake design uses conductive cooling, rather than immersive methods (i.e., no active cryogens are inside the magnet housing). It is capable of producing fields in excess of 6T at the axis when operated between 4 and 15 K, and has been successfully tested at currents up to 700 amps in steady-state operation.

The HTS magnet has many desirable design features – stable high field, relatively large warm bore, compact foot print, conductive cooling, ease of mobility, rapid fringe field decay, and automated quench protection. GA believes similar magnets could be useful in a variety of other scientific, industrial, and medical applications.

– John Smith, Director of Engineering and Projects

The ITER CS production team in front of the first two modules

GENERAL ATOMICS

Bi-2223 Superconducting Wire

DI-BSCCO® Dynamically Innovative Bi-2223 Wire

Reliability

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High Performance

High critical current Ic and Tc(110K) with uniform in the longitudinal direction.

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DI-BSCCO are manufactured with high-quality control by ISO 9001 system.

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SEI provides products that are socially useful and competitive in terms of cost. Silver in DI-BSCCO can be recycled.

DI-BSCCO	Type H	Type G	Type HT-SS	Type HT-CA	Type HT-NX
	High current density wire	Low thermal conductivity wire	High mechanical strength wire with different reinforcement material		
Typical Application		Current Lead	Magnet	Power cable	High field magnet
Reinforcement tape Thickness	–	–	Stainless steel ($0.02mm^t$)	Copper alloy ($0.05mm^t$)	Nickel alloy ($0.03mm^t$)
Average Width	4.2+/-0.2mm	4.2+/-0.2mm	4.5+/-0.1mm	4.5+/-0.1mm	4.5+/-0.2mm
Average Thickness	0.23+/-0.01mm	0.23+/-0.01mm	0.29+/-0.02mm	0.35+/-0.02mm	0.31+/-0.03mm
Tensile Strength * 77K, 95% I_c retention	130 MPa *	130 MPa *	270 MPa *	250 MPa *	400 MPa *
Double Bending Diameter * RT, 95% I_c retention	80mm *	80mm *	60mm *	60mm *	40mm *
Critical Current, I_c 77K, Self Field	170A, 180A, 190A, 200A				

*Typical value

We will contribute to Sustainable Society
by providing excellent superconducting products.

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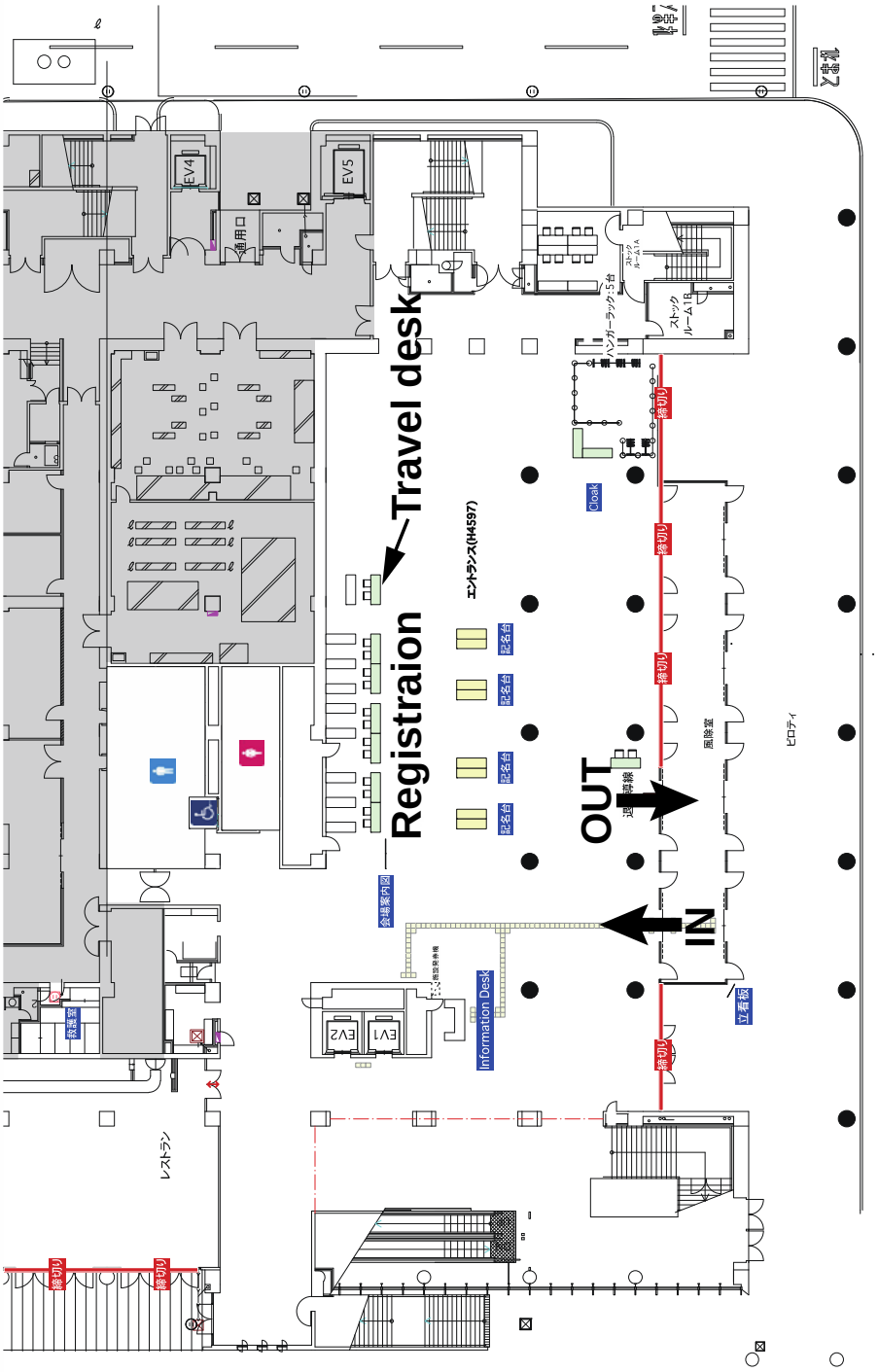
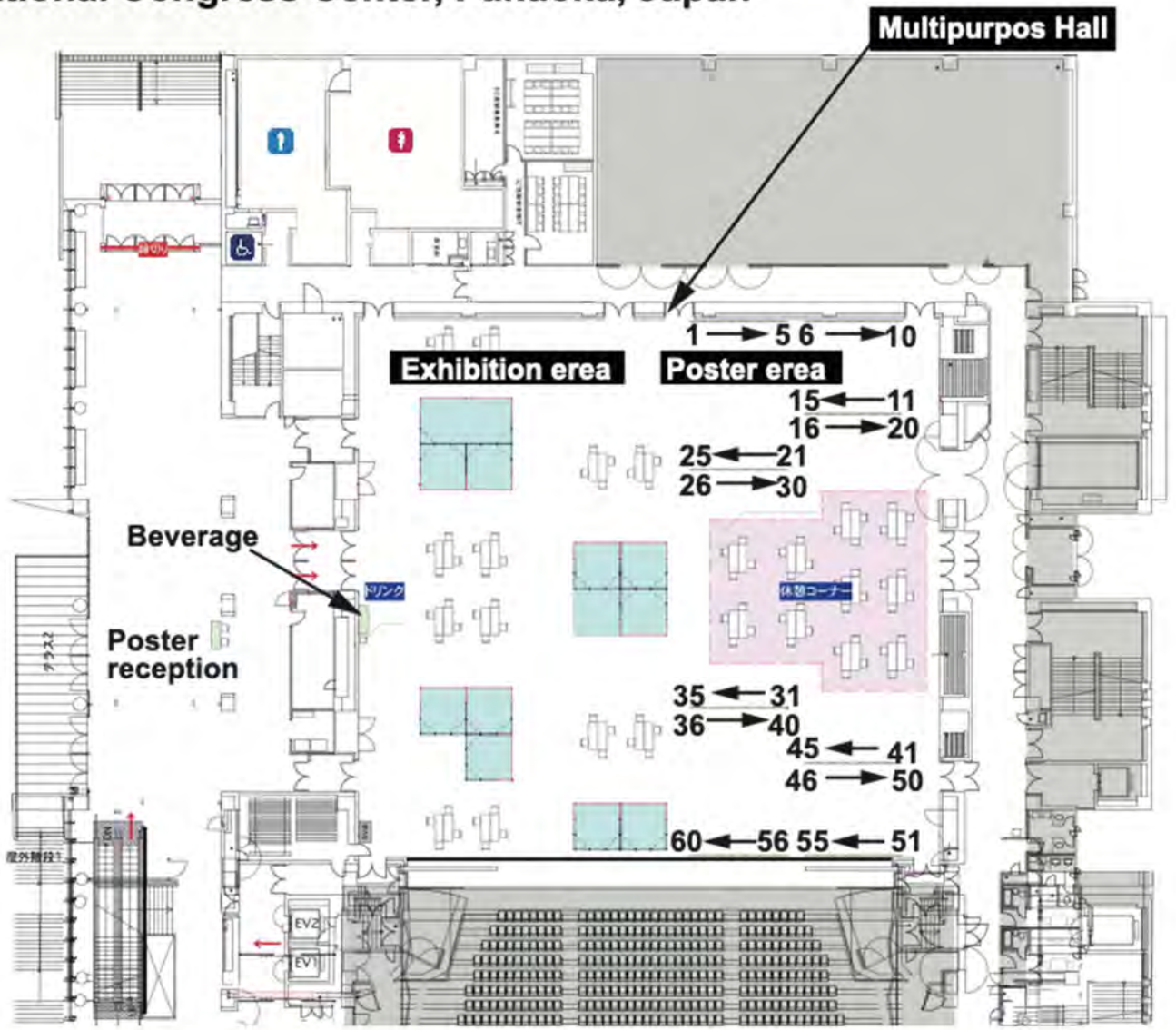
Floor Plan

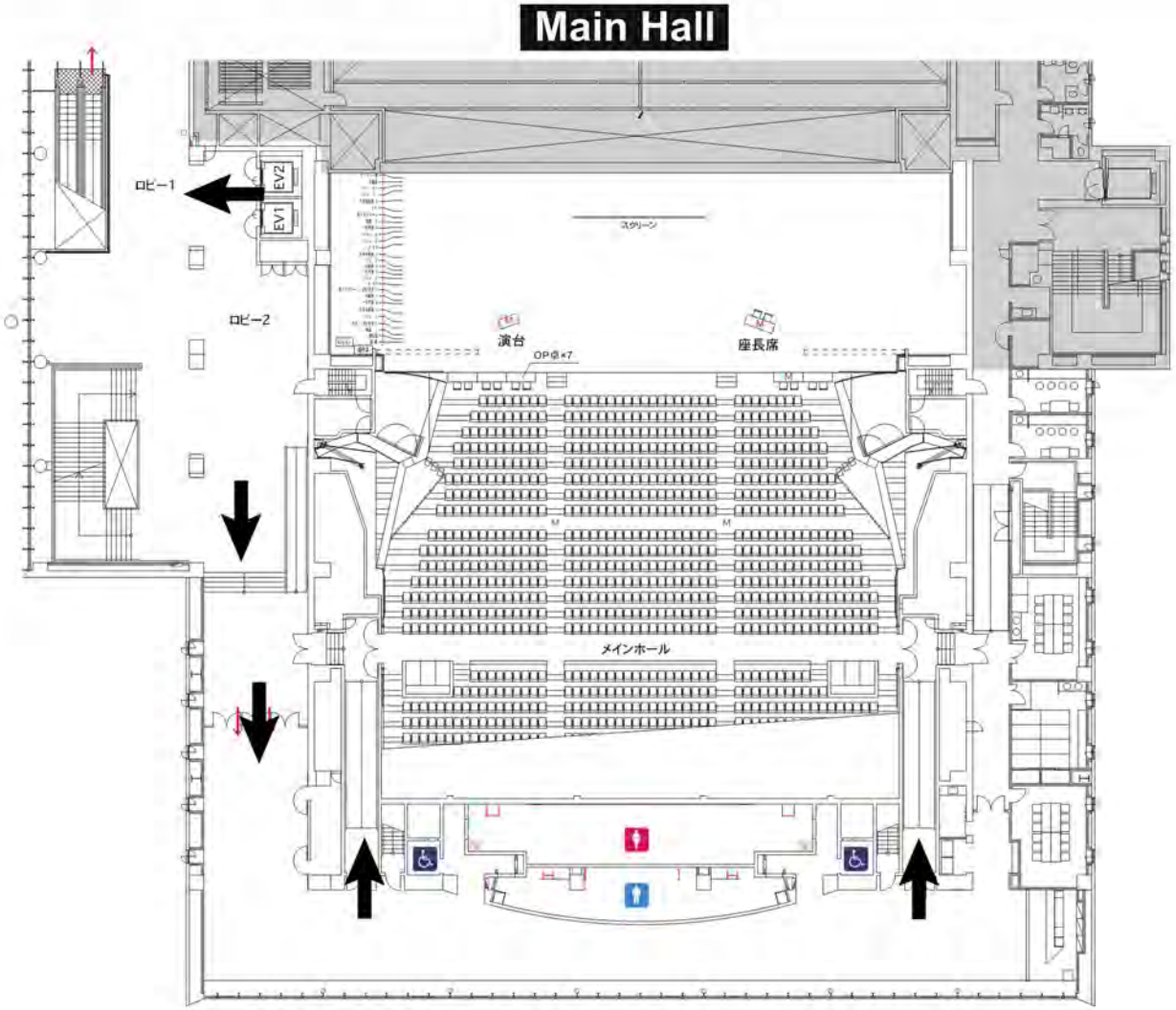
MT27
November 15-19, 2021
Fukuoka International Congress Center, Fukuoka, Japan
Level 1



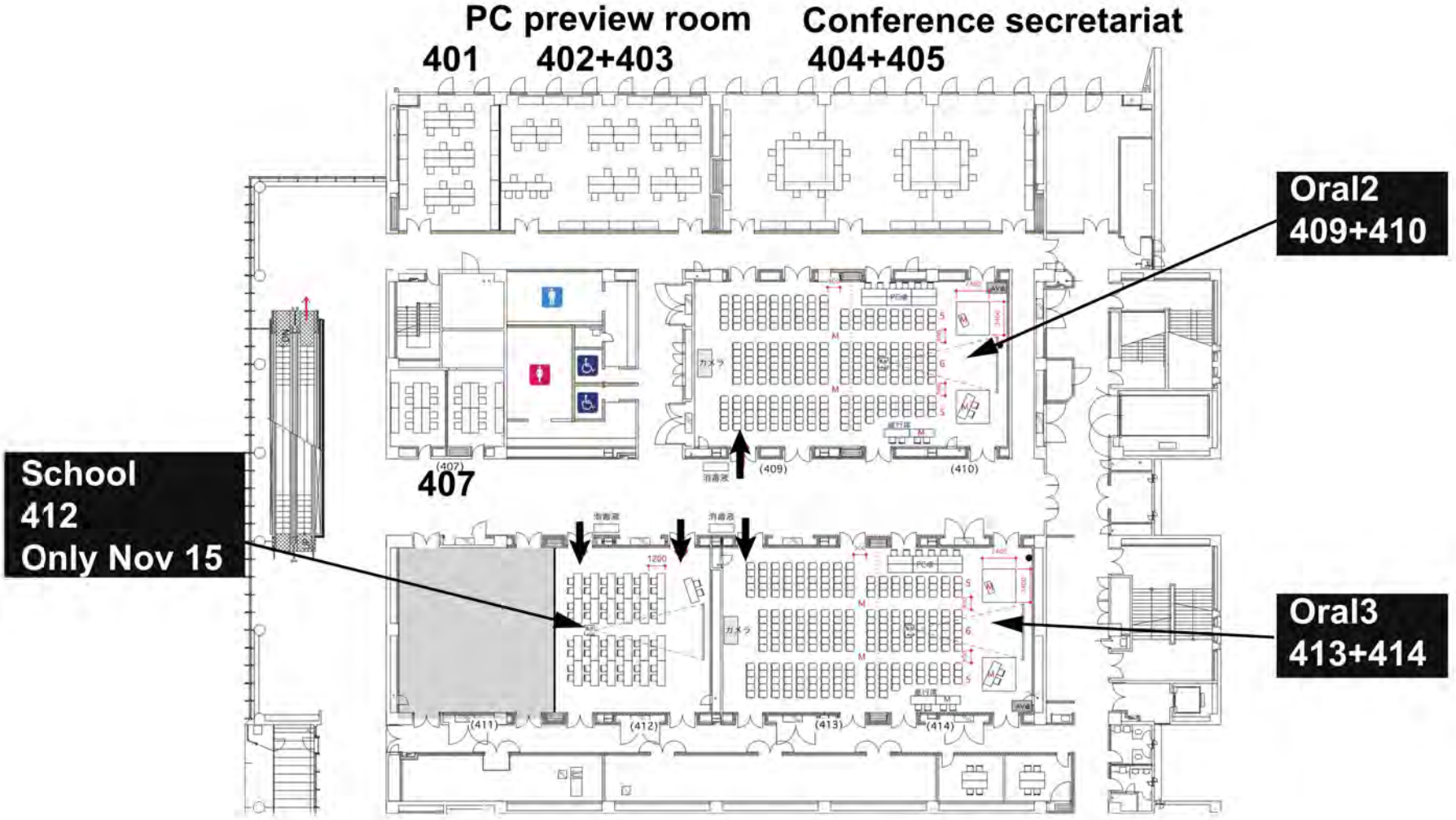
MT27
November 15-19, 2021
Fukuoka International Congress Center, Fukuoka, Japan
Level 2



MT27
November 15-19, 2021
Fukuoka International Congress Center, Fukuoka, Japan
Level 3



MT27
November 15-19, 2021
Fukuoka International Congress Center, Fukuoka, Japan
Level 4



MT27 Program at a Glance

JP/KR	CH	NZ	NY	LA	UK	FR	FIN	RU
JST/KST	CST	NZDT	EST	PST	GMT	CET	MSK	MSK
7 :00	6	10	17	14	22	23	0	1
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:45								

MON, 11/15/202

Registration
for on-site school participants

Asian Superconductivity School (4F 412)

Lunch

Asian Superconductivity School (4F 412)

TUE, 11/16/2021

7:00 - 8:00
Poster Sessions #1
On-line Core time1

Registration

9:00 - 9:30 Opening sesion (3F Main Hall)

Cofee Break

10:00 - 11:45
Oral #1
A: Magnets for accelerator science and particle physics
(3F Main Hall)

10:00 - 12:00
Oral #1
C:Resistive & Pulsed magnet
(4F 409-410)

10:00 - 12:00
Oral #1
F: High Tc Wires and Cables I
(4F 413-414)

Lunch

13:15 - 15:15
Poster Sessions #1
On-site only
(2F Multipurpose Hall)

15:30 - 16:15 Plenary 1 (3F Main Hall)
Commercial Ultra-High-Field NMR Magnets with HTS Conductors, R. Herzog (Bruker)

Break

17:00 - 17:30
Opning Celemony
(3F Main Hall)

21:00 - 22:00
Poster Sessions #1
On-line Core time2

WED, 11/17/2021

7:00 - 8:00
Poster Sessions #2
On-line Core time1

Registration

8:30 - 10:30
Oral #2
G: Mechanical Behavior and Coil Tests
(3F Main Hall)

8:30 - 10:15
Oral #2
A: HL-LHC Accelerator Magnets I
(4F 409-410)

8:30 - 10:30
Oral #2
C: HTS coil I
(4F 413-414)

10:30 - 12:30
Poster Sessions #2
On-site only
(2F Multipurpose Hall)

Lunch

13:45 - 14:45 Plenary 2 (3F Main Hall)
Young Scientist Plenary

14:45 - 15:30 Plenary 3 (3F Main Hall)
Radiation Therapy Systems, E. Forton (IBA)

Cofee Break

16:00 - 18:00
Oral #3
E: Magnet System, Novel and Other Applications
(3F Main Hall)

16:00 - 18:00
Oral #3
B: Fusion Magnets I
(4F 409-410)

16:00 - 18:00
Oral #3
G: Magnetization and Loss
(4F 413-414)

Cofee Break

18:25 - 20:30
Special session
Lesson Learned
(3F Main Hall)

21:00 - 22:00
Poster Sessions #2
On-line Core time2

THU, 11/18/2021

7:00 - 8:00
Poster Sessions #3
On-line Core time1

Registration

9:30 - 10:00 Award (3F Main Hall)

10:00 - 12:00
Poster Sessions #3
On-site only
(2F Multipurpose Hall)

Lunch

14:00 - 14:45 Plenary 4 (3F Main Hall)
Muon collider, M. Palmer (BNL)

14:45 - 15:30 Plenary 5 (3F Main Hall)
Overview of Construction and First Commissioning Results of JT-60SA Superconducting Magnets, H. Murakami (QST)

Cofee Break

16:00 - 18:00
Oral #4
D: Magnets for Medical, Biological, and Analytical Applications

16:00 - 18:00
Oral #4
B: Fusion Magnets II
(4F 409-410)

16:00 - 18:00
Oral #4
G: Stability and Quench
(4F 413-414)

Cofee Break

18:30 - 20:30
Oral #5
C: High Field Magnet
(3F Main Hall)

18:30 - 20:30
Oral #5
E:Superconducting Rotating Machine, Levitation and Flywhee
(4F 409-410)

18:30 - 20:30
Oral #5
F: A15-type Superconducting Wires and Cables
(4F 413-414)

21:00 - 22:00
Poster Sessions #3
On-line Core time2

FRI, 11/19/2021

7:30 - 9:30
Oral #6
G: Design and Analysis
(3F Main Hall)

7:30 - 9:30
Oral #6
A: Accelerator Magnets I: HFM and others applications
(4F 409-410)

7:30 - 9:30
Oral #6
F: High Tc Wires and Cables II
(4F 413-414)

Cofee Break

10:00 - 12:00
Oral #7
C: HTS coil II
(3F Main Hall)

10:00 - 12:00
Oral #7
E: SMES, Superconducting Transformers, Cables and Bulks

10:00 - 11:00
Oral #7
H: Cryogenics
(4F 413-414)

Lunch

14:00 - 14:45 Plenary 6 (3F Main Hall)
Magnet technology for train, M. Tomita (RTRI)

14:45-15:15 Closing (3F Main Hall)

Japanese Culture Visit