IPAC26



IPAC 2026

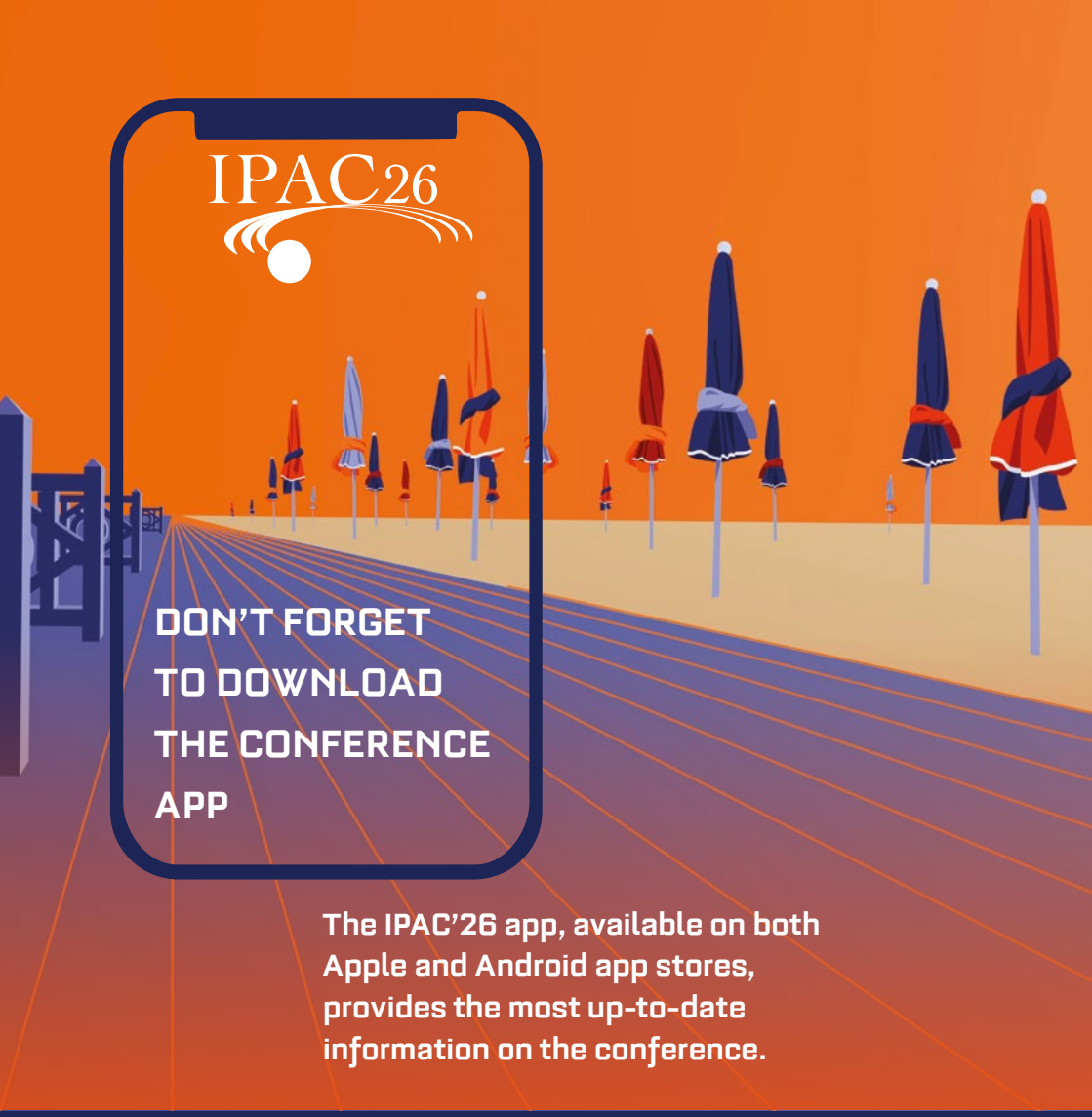
17th International Particle Accelerator Conference

May 17 - 22

Deauville | Normandy | France

CONFERENCE GUIDE

GANIL cea cnrs ESRF The European Synchrotron SOLEIL SYNCHROTRON ACCELERATOR GROUP European Physical Society



The IPAC'26 app, available on both Apple and Android app stores, provides the most up-to-date information on the conference.

www.ipac26.org

Download via App Store / Play Store

ANDROID APP ON Google Play

Available on the App Store



Summary

Greetings 2

General information 7

Committees 8
Policies 11
IPAC'26 Hosting Institution 13
Venue information and floorplans 14
General and local information 16

Student 27

Student grants 28
Student poster session 32

Programme 35

Scientific programme 36
Speaking opportunity 52
Entertainment session 53
Equal opportunities session 54
Industry session 56
Satellite meetings 58
Social programme 61
Laboratory tours 64

Proceedings 71

Industrial exhibition 81

IPAC'26 Supporters 85

Scientific contributions 101

Sunday, May 16, 2026 107
Monday, May 18, 2026 133
Tuesday, May 19, 2026 182
Wednesday, May 20, 2026 229
Thursday, May 21, 2026 276
Friday, May 22, 2026 318

Greetings



Welcome from OC Chair

Peter McIntosh
STFC
Chair, Organizing Committee

It is a true honour and pleasure for me to welcome the worldwide accelerator community to the 17th International Particle Accelerator Conference, IPAC'26, in the beautiful and historic town of Deauville. Principally hosted by the Grand Accélérateur National d'Ions Lourds (GANIL), this year's gathering brings us together on the Normandy coast in France, for what promises to be an exceptional week of science, collaboration and inspiration.

The IPAC series has always been our shared home, as an international meeting point for everyone who drives progress in accelerator science and technology. Whether your work focuses on large colliders, light sources, nuclear physics machines, medical applications, or emerging accelerator technologies, IPAC'26 is where our global community reconnects, exchanges ideas and moves the field forward together. This year's programme reflects the dedication of more than 200 accelerator specialists across the world who have shaped every aspect of the conference.

In times when the world feels increasingly uncertain, our organising teams have worked with remarkable resilience and unity. The commitment and the support from all committee members, especially our programme and local chairs Rogelio Tomas and Hanna Frånberg Delahaye as the driving engines for IPAC'26, working seamlessly with Sabrina Lecerf our scientific secretariat lead, have each made it possible for us to arrive in Deauville with the same strong spirit that defined the record breaking IPAC in Venice in 2023.

IPAC'26 will showcase over 2,000 presentations on the latest breakthroughs, challenges and innovations across our field, from over 1,500 expected participants. The industrial exhibition once again forms the world's leading marketplace for accelerator technology, connecting research, applications and industry in a uniquely productive way. Our prize programme will recognise outstanding contributions from our community and thanks to our numerous sponsors, we are delighted to welcome and support more than 100 students, who represent the next generation of accelerator scientists and who will share their fresh ideas and vision for the future.

And finally, I hope Deauville inspires you as a town that has a special atmosphere, where history, science and creativity naturally come together. Its welcoming coastline, its tradition of hosting major gatherings and its proximity to world class research, all remind us that in Normandy, we can explore new ideas, forge new collaborations and build together the innovations that will shape our field for years to come.

I wish each of you a lively, rewarding and memorable IPAC'26 conference.

Peter McIntosh



Welcome from SPC Chair

Rogelio Tomas
CERN
Chair, Scientific Programme Committee

The scientific programme carries the intellectual value of any conference. For IPAC'26 we are highly proud to have gathered a large collection of innovations, breakthroughs, and new developments, which promise a vibrant and stimulating exchange.

The IPAC'26 scientific programme comes with its own innovation as we have introduced the figure of "Invited posters", with preferential locations in the poster sessions, to highlight remarkable contributions that could not fit in the limited time for oral contributions.

It is with great satisfaction to observe diversity increasing in the accelerator community. IPAC'26 oral contributions feature above 30% female presenters and the number of countries in the full programme reaches almost 40.

The programme provides a large variety of session flavours as: student poster session, introductory and plenary talks, parallel oral sessions, industry session, Award ceremony, entertainment session, and delegate poster presentation sessions.

Credit and gratitude go to the Scientific Programme Committee (SPC), along with the support of the Scientific Advisory Board (SAB) and Organising Committee (OC), for their efforts to deliver such an outstanding programme. Heartfelt thanks go to the Scientific Secretary (Sabrina Lecerf), the Editor-in-Chief (Nicolas Delerue), and the Local Organizing Chair (Hanna Franberg-Delahaye) for their exceptional support. Finally, my deepest thanks and appreciation go to Peter McIntosh (IPAC'26 Conference Chair), for his remarkable guidance and professionalism.

Looking forward to meeting you all in Deauville for a vibrant IPAC'26!

Rogelio Tomas



Hanna Frånberg
GANIL
Chair, Local Organizing Committee

It is with great pleasure and enthusiasm that I welcome you to the 17th International Particle Accelerator Conference (IPAC'26), set against the elegant backdrop of Deauville, a charming seaside town renowned for its timeless beauty and rich cultural heritage.

IPAC'26 is proudly hosted by GANIL (Grand Accélérateur National d'Ions Lourds), a world-leading laboratory in ion beam research and accelerator science. Since the commissioning of its pioneering CSS (Cyclotron Superconducteur Séparé Secteurs) in 1982, GANIL has been at the forefront of enabling groundbreaking experiments in nuclear physics, astrophysics, materials science, and applied physics. With the launch of the SPIRAL2 facility in 2021, GANIL has further expanded its capabilities, solidifying its role as a hub for scientific innovation. In collaboration with [CNRS and CEA], GANIL embodies the spirit of scientific ingenuity and international partnership that defines our conference.

IPAC was originally planned to be held in Caen, Normandy, in 2020, just a short distance from Deauville. Due to the global pandemic, the conference transitioned at the last minute to an online format, which proved highly successful. We have to thank the local organising committee chair Frederic Chautard and all his team members for their effort. Now, after years of anticipation, I am thrilled to finally welcome you in person to Deauville for IPAC'26.

As Chair of the Local Organizing Committee, I am honored to host this prestigious gathering in Deauville, a town famed for its iconic boardwalk, historic architecture, and dynamic cultural scene. The Centre International de Deauville (CID) —our conference venue—offers a state-of-the-art setting for scientific exchange, with modern facilities, spacious exhibition areas, and a stunning seaside location. I am confident that this inspiring environment will foster creativity, spark new ideas, and strengthen connections among the global accelerator community.

The success of IPAC'26 is the result of the dedication and hard work of our Organizing Committee, Scientific Programme Committee, and Local Organizing Committee. I extend my deepest gratitude to all committee members, with special thanks to [Peter McIntosh, Chair of the IPAC'26 Organizing Committee], and [Rogelio Tomas, Chair of the Scientific Programme Committee] for their invaluable guidance and support throughout the planning process. A heartfelt thank you also goes to our colleagues across France—at GANIL, ESRF, SOLEIL, CERN, and IJCLab—for their commitment, creativity, and tireless efforts. This conference would not have been possible without you!

Beyond the technical and scientific programme, we have curated a series of engaging social events designed to encourage networking, collaboration, and relaxation. I invite all participants to explore Deauville and its surroundings, whether by strolling along the beach, discovering local Norman cuisine, or immersing yourselves in the region's rich history and culture.

Finally, I express my sincere gratitude to our speakers, industrial exhibitors, sponsors, and all participants for their contributions. Your presence and engagement are what make IPAC'26 a truly exceptional event.

I hope you fully enjoy the conference and leave Deauville with lasting memories, new connections, and fresh inspiration.

Welcome to IPAC'26
let's make this a landmark edition together!

Hanna Frånberg
IPAC'26, Deauville, France

17th International Particle Accelerator Conference



General information

Committees **8**
- International Organising Committee 8
- Scientific Programme Committee 8
- Scientific Advisory Board 9
- Local Organising Committee 10

Policies **11**

IPAC'26 Hosting Institution **13**

Venue information and floorplans **14**
- Deauville International Center 15

General and local information **16**
- How to come to Deauville from Paris 16
- IPAC'26 direct bus transfers from Paris to Deauville 17
- Important information for ESRF and SOLEIL visits 17
- Getting to IPAC'26 Venue on Deauville 18
- Time Zone 18
- Currency 19
- Electrical plugs 19
- Average temperatures 19
- Tipping 20
- International dialling codes 20
- Mobility in Deauville 21
- First Aid at the venue 22
- Procedure in case of emergency 22
- Hospital 23
- Pharmacies 23
- Registration 24

Committees

International Organising Committee

Chair: Peter McIntosh (STFC, United Kingdom)

- **Ralph Assmann** (GSI, Germany)
- **Nuria Catalan Lasheras** (CERN, Switzerland)
- **Enrica Chiadroni** (La Sapienza, Italy)
- **Nicolas Delerue** (CNRS-IJCLab, France)
- **Rohand Dowd** (ANSTO, Australia)
- **Mamad Eshraqi** (ESS, Sweden)
- **Alessandro Fabris** (ELETTRA, Italy)
- **Wolfram Fischer** (BNL, USA)
- **Hanna Franberg-Delahaye** (GANIL- CEA, France)
- **Jie Gao** (IHEP, China)
- **Ralf Gebel** (FZJ – GSI, Germany)
- **Gianluca Geloni** (EuXFEL, Europe)
- **Toru Hara** (RIKEN, Japan)
- **Prapong Klysubun** (SLRI, Thailand)
- **Tadashi Koseki** (KEK, Japan)
- **Ming-Chyuan Lin** (NSRRC, Taiwan)
- **Victor Malka** (Weizmann, Israel)
- **Marco Marchetto** (TRIUMF, Canada)
- **Jordi Marcos** (CELLS, Spain)
- **Atoosa Meseck** (HZB, Germany)
- **Marie-Hélène Moscatello** (GANIL-CEA, France)
- **Pietro Musumeci** (UCLA, USA)
- **Fulvia Pilat** (ORNL, USA)
- **Eduard Prat** (PSI, Switzerland)
- **Soren Prestemon** (LBL, USA)
- **Adriana Rossi** (CERN, Switzerland)
- **Seunghwan Shin** (Korea-U, South Korea)
- **Yine Sun** (ANL, USA)
- **Liangting Sun** (IMP, China)
- **John Thomason** (STFC, United Kingdom)
- **Rogelio Tomas** (CERN, Switzerland)
- **Sacha Valishev** (FNAL, USA)
- **Adriana Wawrzyniak** (Solaris, Poland)
- **Jie Wei** (FRIB, USA)

Scientific Programme Committee

Chair: Rogelio Tomas (CERN, Switzerland)

- **Ralph Assmann** (GSI, Germany)
- **Enrica Chiadroni** (La Sapienza, Italy)
- **Sarah Cousineau** (ORNL, USA)
- **Nicolas Delerue** (CNRS-IJCLab, France)
- **Mamad Eshraqi** (ESS, Sweden)
- **Hanna Franberg-Delahaye** (GANIL, France)
- **Ralf Gebel** (FZJ-GSI, Germany)
- **Gianluca Geloni** (EuXFEL, Germany)
- **Toru Hara** (RIKEN, Japan)
- **Prapong Klysubun** (SLRI, Thailand)
- **Sabrina Lecerf** (GANIL, France)
- **Jordi Marcos** (CELLS, Spain)
- **Peter McIntosh** (STFC, United Kingdom)
- **Atoosa Meseck** (HZB, Germany)
- **Marie-Hélène Moscatello** (GANIL-CEA, France)
- **Pietro Musumeci** (UCLA, USA)
- **Eduard Prat** (PSI, Switzerland)
- **Soren Prestemon** (LBL, USA)
- **Adriana Rossi** (CERN, Switzerland)
- **Seunghwan Shin** (Korea-U, South Korea)
- **Yine Sun** (ANL, USA)
- **Liangting Sun** (IMP, China)
- **John Thomason** (STFC, United Kingdom)
- **Sacha Valishev** (FNAL, USA)
- **Adriana Wawrzyniak** (Solaris, Poland)

Scientific Advisory Board

- **Deepa Angal-Kalinin** (STFC, United Kingdom)
- **Maher Attal** (SESAME, Jordan)
- **Fernando Balbin** (ESS Bilbao, Spain)
- **Giovanni Bisoffi** (INFN LNL, Italy)
- **Phil Burrows** (Oxford Univ., United Kingdom)
- **Graeme Burt** (Lancaster Univ., United Kingdom)
- **Sara Casalbuoni** (EuXFEL, Germany)
- **Laura Corner** (Liverpool Univ, United Kingdom)
- **Simone Di Mitri** (ELETTRA, Italy)
- **Dan Faircloth** (STFC/RAL/ISIS, United Kingdom)
- **Jérôme Faure** (Ecole Polytechnique, France)
- **Angeles Faus-Golfe** (IJCLab, France)
- **Robin Ferdinand** (GANIL-CEA, France)
- **Massimo Ferrario** (INFN Frascati, Italy)
- **Alexander Gerbershagen** (Univ of Groningen, Netherlands)
- **Steve Gibson** (RHUL, United Kingdom)
- **Andreas Jansson** (ESS, Sweden)
- **Rhodri Jones** (CERN, Switzerland)
- **Daniela Kiselev** (PSI, Switzerland)
- **Marie Labat** (SOLEIL, France)
- **Lutz Lilje** (DESY, Germany)
- **Olle Lundh** (Lund Univ., Sweden)
- **Maja Olvegård** (Uppsala Univ., Sweden)
- **Francis Perez** (ALBA-CELLS, Sweden)
- **Ivan Podadera** (IFMIF-Dones, Spain)
- **Gunther Rehm** (HZB Berlin, Germany)
- **Muneer Sakildien** (TALBS)
- **Thomas Schietinger** (PSI, Switzerland)
- **Ulrich Schramm** (TU Dresden, Germany)
- **Marcel Schuh** (KIT, Germany)
- **Daniele Sertore** (INFN/LASA, Italy)
- **Claire Simon** (CEA, France)
- **Peter Spiller** (GSI, Germany)
- **Steinar Stapnes** (CERN, Switzerland)
- **Hamed Tarawneh** (MAX-IV, Sweden)
- **Thomas Tuillier** (LPSC Grenoble, France)
- **Cristina Vacarezza** (INFN/LNF, Italy)
- **Jorg Wenninger** (CERN, Switzerland)
- **Simon White** (ESRF, France)
- **Frank Zimmermann** (CERN, Switzerland)
- **Kazuo Hasegawa** (QST/IFMIF, Japan)
- **Nobuyuki Nishimori** (QST/NanoTerasu, Japan)
- **Yoshiyuki Iwata** (QST/HIMAC, Japan)
- **Shigeru Kashiwagi** (Tohoku Univ., Japan)
- **Takashi Obina** (KEK/PF, Japan)
- **Yoichi Sato** (KEK/J-PARC, Japan)
- **Masanori Satoh** (KEK/InjectorLinac, Japan)
- **Kazunari Yamada** (RIKEN/Nishina, Japan)
- **Yuhui Li** (IHEP, China)
- **Sheng Wang** (IHEP, China)
- **Zhentang Zhao** (XFEL, SARI, China)
- **Hongwei Zhao** (IMP, China)
- **Guangyao Feng** (USTC, China)
- **Changbum Kim** (PAL, Korea)
- **Hyeok-Jung Kwon** (KOMAC, Korea)
- **Yeongsei Chung** (IBS, Korea)
- **Heuijin Lim** (DIRAMS, Korea)
- **Jui-Che Huang** (NSRRC, Taiwan)
- **Ching-Lung Chen** (NSRRC, Taiwan)
- **Huang-Hsiu Tsai** (NSRRC, Taiwan)
- **Tessa Charles** (ANSTO, Australia)
- **Suzie Sheehy** (Univ. of Melbourne, Australia)
- **Thapakron Pulampong** (SLRI, Thailand)
- **Porntip Sudmuang** (SLRI, Thailand)
- **Anna Marie Alexander** (LANL, USA)
- **Tonia Batten** (CLS, Canada)
- **Willem Blokland** (ORNL, USA)
- **David Cesar** (SLAC, USA)
- **Fernando de Sa** (LNLS, Brazil)
- **Simon Leemann** (LBNL, USA)
- **Steve Lidia** (FRIB, USA)
- **Matthias Liepe** (Cornell, USA)
- **Xueying Lu** (Northern Illinois Univ., USA)
- **Roark Marsh** (LLNL, USA)
- **Alex Murokh** (RadiaBeam, USA)
- **Sergei Nagaitsev** (BNL, USA)
- **Brendan O'Shea** (SLAC, USA)
- **Frederique Pellemoine** (FNAL, USA)
- **John Power** (ANL, USA)

- **Kiersten Ruisard** (ORNL, USA)
- **Vadim Sajaev** (ANL, USA)
- **Vladimir Shiltsev** (NIU, USA)
- **Diktis Stratakis** (FNAL, USA)
- **Sami Tantawi** (ASU, USA)
- **Dmitri Teytelman** (Dimtel, USA)
- **Anne-Marie Valente-Feliciano** (JLAB, USA)
- **Jean-Luc Vay** (LBNL, USA)
- **Guimei Wang** (BNL, USA)
- **Leanne Duffy** (LANL, USA)

Local Organising Committee

Chair: Hanna Franberg-Delahaye (GANIL)

- **Cécile Barthe-Dejean** (GANIL, France)
- **Nicolas Berton** (CEA/IRFU-DIS, France)
- **Audrey Brout** (GANIL, France)
- **Séverine Candau** (CEA/IRFU, France)
- **Alicia Cerati** (GANIL, France)
- **Solène Clement** (K.I.T. Group France, France)
- **Isabelle Côme** (GANIL, France)
- **Nicolas Delerue** (CNRS-IJClab, France)
- **Sylvie Feuardent** (GANIL, France)
- **Bertrand Franel** (GANIL, France)
- **Sebastien Gautrot** (GANIL, France)
- **Jérôme Gueret** (GANIL, France)
- **Alexendre Gognat** (GANIL, France)
- **Clara Grygiel** (CIMAP, France)
- **Emanuela Indries** (GANIL, France)
- **Soizic Jaglin** (GANIL, France)
- **Adeline Jeanne** (K.I.T. Group France, France)
- **Benoit Joly** (ESRF, France)
- **Pierre Korysko** (CERN, Switzerland)
- **Guillaume Lalaire** (GANIL, France)
- **Sabrina Lecerf** (GANIL, France)
- **Pierre Leduc** (GANIL, France)
- **Alexis Lefevre** (GANIL, France)
- **Julien Michaud** (CNRS-IJClab, France)
- **Laurent Nadolski** (SOLEIL, France)
- **Adrien Neyret** (K.I.T. Group France, France)
- **Guillaume Normand** (GANIL, France)
- **Angie Orduz** (GANIL, France)
- **Lionel Quettier** (GANIL, France)
- **Jean-Luc Revol** (ESRF, France)
- **Marc-Hervé Stodel** (GANIL, France)
- **Keihan Tavakoli** (SOLEIL, France)
- **Magali Tence** (GANIL, France)
- **Matteo Voiturier** (GANIL, France)

Policies

The organisers of IPAC'26 have adopted a **Gold Standard for conferences**, designed to remove barriers and ensure that our event reflects the rich diversity of our field. Our policies are grounded in the principle that everyone—regardless of race, ethnicity, gender, sexual orientation, age, physical abilities, or religious beliefs—should have equal opportunity to attend, contribute, and thrive at IPAC'26.

Diversity and representation policy

The organizers of IPAC'26 are committed to ensuring that the diversity of our speakers reflects the broader accelerator community. In developing the scientific program, we actively consider regional representation, gender balance, and career level.
Our goal for gender diversity is to meet or exceed the current proportion of women in physics (>20%). Statistics on speaker diversity will be published on the conference website.
Additionally, IPAC'26 will host an open event focused on diversity issues and networking, providing a platform for discussion and connection.

Accessibility

The CID (Centre International de Deauville) is designed to host events and generally offers good accessibility for attendees with mobility issues.

Data collection and reporting

In order to track and understand the diversity of our community and to see if we are meeting our diversity goals, some optional data will be collected upon registration to the conference.

Non-discrimination and anti-harassment policy

IPAC'26 is committed to providing a conference environment free from discrimination, harassment, and bullying, in compliance with French and European law. No discrimination will be tolerated based on origin, gender, gender identity, sexual orientation, age, disability, physical appearance, religious or political beliefs, family status, nationality, or any other legally protected status.

Prohibited behaviors include

- Discriminatory, sexist, or offensive comments or images
- Intimidation, stalking, or unwelcome photography/recording
- Sustained disruption of talks or events
- Inappropriate physical contact or unwanted sexual attention

Exhibitor responsibilities

Exhibitors must adhere to this policy. Sexualized materials, displays, or behaviors are strictly prohibited.

Reporting and enforcement

Violations will be addressed promptly. Organizers reserve the right to expel offenders without refund. If you experience or witness harassment or discrimination, immediately contact a conference staff member or the designated equality and diversity officer.

This policy applies to all conference venues and related social events.

Disclaimer

The organizers of IPAC'26 (hereinafter "the Organizers") shall not be held liable for any damages, losses, injuries, or inconveniences of any kind—whether direct, indirect, incidental, or consequential—incurred by conference delegates, accompanying persons, exhibitors, or any other attendees. This includes, but is not limited to, damages or losses related to:

- Travel to, from, or during the conference (including delays, cancellations, or accidents)
- Theft, loss, or damage to personal belongings or property
- Accommodation, transportation, or other services arranged independently by attendees
- Participation in official or unofficial conference activities, social events, or excursions
- Health or medical emergencies, unless caused by the Organizers' proven negligence

Responsibilities of delegates

- Delegates are solely responsible for their own travel arrangements, insurance (including health, travel, and liability insurance), and personal belongings.
- Delegates must comply with all local laws, regulations, and venue rules, as well as the conference's Code of Conduct and anti-harassment policy.
- The Organizers do not assume responsibility for the actions, statements, or materials of exhibitors, sponsors, or third-party service providers.

By registering, delegates consent to the collection and processing of their personal data in accordance with the conference's privacy policy and applicable data protection laws (e.g., GDPR).

Acknowledgment

Registration and participation in IPAC'26 constitute acceptance of this disclaimer in full.

IPAC'26 Hosting Institution



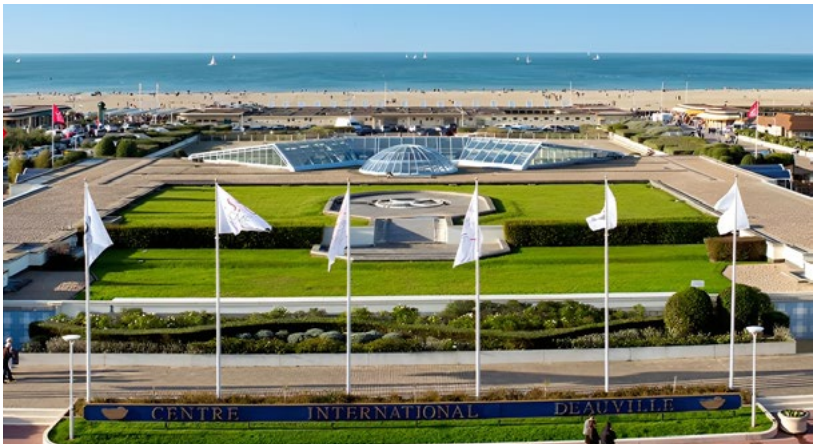
GANIL is one of the leading laboratories in the world engaged in research with ion beams. As one of the world's leading laboratories in the field, GANIL's state-of-the-art accelerators, coupled to very high-performance detection instrumentation, enable researchers from all over the world to conduct unique experiments. The research themes are nuclear physics, nuclear astrophysics, astrochemistry, materials under irradiation, nanostructuring, radiobiology and innovative techniques for hadrontherapy.

The operation of GANIL relies on the expertise of engineers, technicians, and scientists. These include, among others, staff dedicated to producing and transporting ion beams, preparing and ensuring proper running of experiments, including the data acquisition systems. Research teams propose experiments using state-of-the art technologies. Some of the required developments are carried out at GANIL in collaboration with experimentalists and engineers from other laboratories. The experimental and theoretical physicists work closely together for improving and deepening the knowledge on the science pursued. The smooth operation of the entire facility, and its accessibility to users, is ensured by the administrative personnel working alongside the scientific and technical staff. In all, about 350 people are employed in GANIL's different divisions.

As a national laboratory jointly overseen by the CNRS (Centre National de la Recherche Scientifique) and the CEA (Commissariat à l'Énergie Atomique et aux Énergies Alternatives), GANIL benefits from robust national and international support. Its SPIRAL2 facility, recognized in 2006 by the European Strategy Forum on Research Infrastructures (ESFRI) as a project of scientific excellence, further cements GANIL's role as a key player in the global research landscape.

Each year, GANIL welcomes hundreds of researchers and engineers from around the world, fostering a vibrant, collaborative community. With nearly 1,000 users from 65 laboratories across 30 countries, GANIL's international reach and multidisciplinary approach make it an ideal partner for advancing accelerator science and its applications.

Venue information and floorplans



Deauville is a perfect place for business and leisure tourism in France. Since the 1960s, Deauville's charm has worked for both professional and general public event organisers. Deauville's beach and boardwalk have an international reputation and a strong power of attraction.

The Deauville International Center was inaugurated in 1992 by actor and director Clint Eastwood on the occasion of the 18th Deauville American Film Festival.

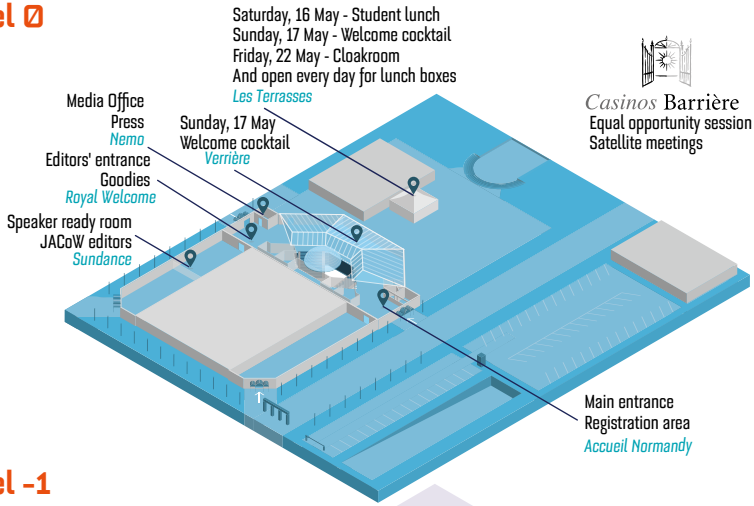
Located on the seafront and opposite the Deauville casino, this 18,000 square meters semi-buried building, spread over three levels, is a real architectural feat. The Palais des Congrès Deauville offers several different spaces for our activities. It is a remarkable building and one of the best convention centers in France.

They host conferences with up to 7,000 participants as well as major political summits such as the G8, and the G11...

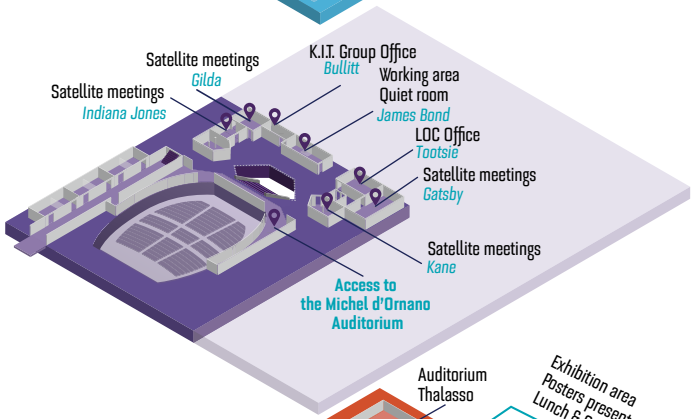
The Normandy Convention Center implements the guidelines of a high-quality standard on a daily basis: it is ISO 20121 certified. This standard of responsible management in the event industry has enabled the CID to grow in importance. It is the venue for nearly 140 professional and general public events per year in Normandy. The event teams are trained to respect the standards in the event industry, whether it is the safety of people and participants — the Convention Centre is certified Sécuri-Site — or the strict respect of health protocols in force at the time of each event — the Palais des Congrès is certified Safe Congress.

Deauville International Center

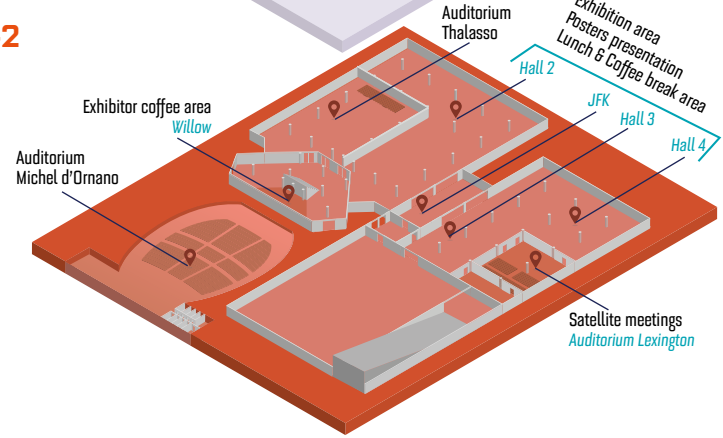
Level 0



Level -1



Level -2



General and local information

How to come to Deauville from Paris



If you are coming from abroad, you will most likely reach France by plane or train arriving in Paris.

Charles de Gaulle international airport (CDG) in Paris is the largest international hub in Paris, but Orly airport (ORY) is also available in Paris.

From these two international airports you can reach Paris city center by ground transport and organise your arrival to Deauville from the train station Saint Lazare, one of the five major train stations in Paris.

Coming to Deauville is easy by train from Paris.

IPAC'26 direct bus transfers from Paris to Deauville

To simplify the organisation of your travel we have organised bus transfers directly to Deauville from Charles de Gaulle (CDG) airport and Orly airport (ORY) on Sunday, May 17.

Busses are also arranged from the conference center to Paris airports and Paris city center on Friday after the conference. This might be an option if you wish to visit Paris after the conference.

The costs of the shuttle bus organized by IPAC'26 is **€40 TTC one way**. You will have to sign up for the bus during your registration procedure.

You can always add the bus travel at a later stage during your registration procedure.

A few weeks before the conference we will contact those of you that have signed up for bus transfers to ask for your flight details to optimize and communicate about the bus schedules. The time tables will be published on the website.

At the moment you can count on a bus transfer every 2 hours between 8:00 a.m. and 4:00 p.m. from the airports arriving in Deauville 3 hours later (latest arrival 7:00 p.m.).

Buses can be organized for Saturday evening if requested by several participants. For those who will arrive late on Saturday, May 16 we recommend staying overnight at one of the many hotels at the airport and then book a shuttle for Sunday morning towards Deauville.

If you wish to stay a few days in Normandy and visit the region you can easily get a direct train from Deauville to Paris after the conference or organize your travel with the agency proposing visits.

There is only one train station in Deauville-Trouville. Tickets can be bought online at the train company's website during the conference or at the train station.

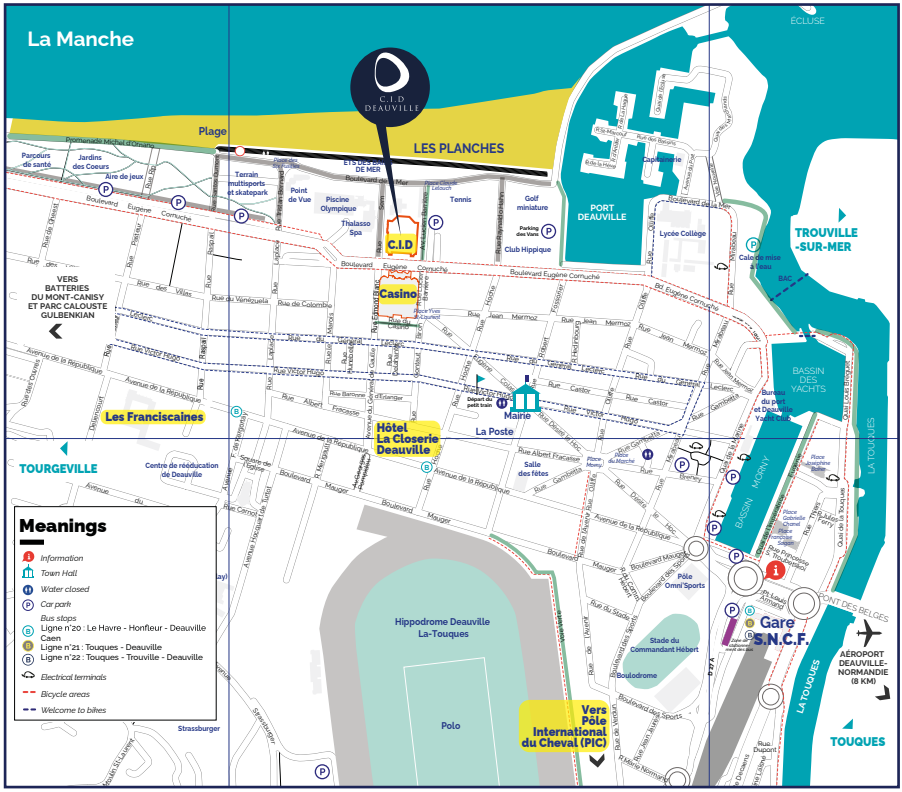
There is an airport in Deauville, with seasonal connections to various cities in the world.

Important information for ESRF and SOLEIL visits

For those visiting SOLEIL in Paris or ESRF in Grenoble after the conference please note that **no travel back to Deauville** and Normandy are foreseen.

If you are flying to Paris, please forsee enough time to travel from Grenoble to Paris to reach your return flight. There are direct trains about every 2h from Grenoble to Paris. The train journey takes about 3 hours. From Paris city center to CDG airport it takes about 1 hour with public transport.

Getting to IPAC'26 Venue on Deauville



As Deauville is a human-sized city, there is no public transportation going around the city.

You can do everything on foot, including getting to IPAC'26 venue: CID – Deauville International Center.

Time Zone

CEST – Central European Summer Time, European Summer Time begins on the last Sunday in March and ends on the last Sunday in October each year.

France has only one time zone. Central European Time (CET) is used as a standard time, while Central European Summer Time (CEST) is observed when Daylight Saving Time (DST) is in force.

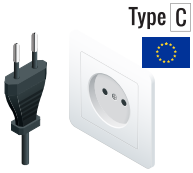
Currency

Euro (EUR) The denominations of coins and banknotes are as follows:

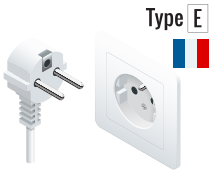
Coin denominations:
1 cent, 2 cents, 5 cents, 10 cents, 20 cents, 50 cents, 1 euro, 2 euros

Banknote denominations:
5 euros, 10 euros, 20 euros, 50 euros, 100 euros, 200 euros, 500 euros

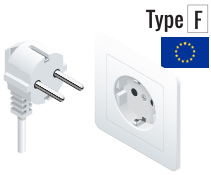
Electrical plugs



Type C European 2-PIN



Type E European 2-PIN



Type F Shuko Plug

You may need an adapter to plug your appliances into the power sockets. In France, there are three associated plug types: types C and E are most common, type F can also work.

Plug type C is the plug which has two round pins, plug type F is the plug that has two round pins with two earth clips on the side and plug type E is the plug which has two round pins and a female contact for a grounding pin. France operates on a standard voltage of 230V and a frequency of 50Hz.

Average temperatures

TEMPERATURE	RAINY DAYS	DRY DAYS	SNOWY DAYS	AVERAGE RAIN	DAYSLIGHT
15° / 9°	**6 days**	**25 days**	**0 days**	**83mm**	**9,2 Hrs**

May generally includes moderate temperatures and moderate rainfall.

Throughout the daytime, temperatures often hover around 15°C. However, as the sun sets and evening approaches, there's a noticeable cool-down. Temperatures gently drop to a more temperate 9°C.

Precipitation: Deauville in May usually receives moderate rainfall, averaging around 83mm for the month. Expect around 6 days of rain based on historical data.

Tipping

When it comes to tipping at restaurants, the French don't follow the same customs as in some other countries. In France, a service charge is almost always included in the bill by law. You'll usually see the phrase (service compris) printed on the menu or the check, which means that a 15% service charge has already been added to the total.

Because of this, leaving an additional tip is not required. However, it's common to round up the bill or leave a small amount of change—perhaps a few euros—if you received particularly good service. In more upscale restaurants, diners might leave a bit more as a gesture of appreciation, but it's never obligatory.

Before deciding whether to tip, take a moment to read the check. If it states "service compris", you can simply pay the amount shown. Any extra you leave is entirely at your discretion and meant as a token of thanks rather than an expectation.

International dialling codes

The international dialling code for France is +33.

If you find yourself in serious difficulty and need help, the main emergency number to call in France is **112**. This free number can be dialled without any prefix from any phone, including mobile phones. The operator will connect you to the appropriate emergency service.

Other important emergency numbers in France include:

– **15** – SAMU (emergency medical services)

– **17** – Police (Police or Gendarmerie)

– **18** – Fire brigade (sapeurs-pompiers)

All of these numbers are free to call and operate 24/7.

Mobility in Deauville

There is no local public transportation network in Deauville. Getting around is easy on foot due to the town's compact size, and cycling is also a very convenient option. Taxis are available 24/7 for longer distances or late-night transfers.

Taxis

- **Central Taxis VTC**

  Open 24/7

  Gare SNCF, Avenue de la République, 14800 Deauville

  Tel: +33 2 31 87 11 11
- **Alliance Taxis Deauville**

  Open 7 days a week

  Presqu'île de la Touques, 10 rue de la Princeppe Toubetskoi, 14800 Deauville

  Tel: +33 2 14 74 87 48
- **Taxi Valet Thierry Deauville-Trouville**

  Open 24/7

  11 Place Morny, 14800 Deauville

  Tel: +33 6 07 55 85 61
- **AABN Taxi Viel Jerome**

  15 rue des Roses, 14800 Touques

  Tel: +33 2 31 87 35 00

Bike Rentals

Cycling is one of the best ways to explore Deauville and nearby Trouville-sur-Mer, especially along the seafront and the famous boardwalk.

You can rent bikes from:

- **Mary Cycles Deauville**

  Route de Paris, 14800 Deauville

  Tel: +33 2 31 88 03 91

  Open: Monday to Saturday, from 9:30 a.m. to 1:00 pm and from 2:00 p.m. to 6:30 p.m.
- **Bike Shop Jamme**

  11 Avenue de la République, 14800 Deauville

  Tel: +33 2 31 88 40 22

  Open: Monday to Saturday,
  from 9:30 a.m. to 12:30 p.m. and from 2:15 p.m. to 6:30 p.m.

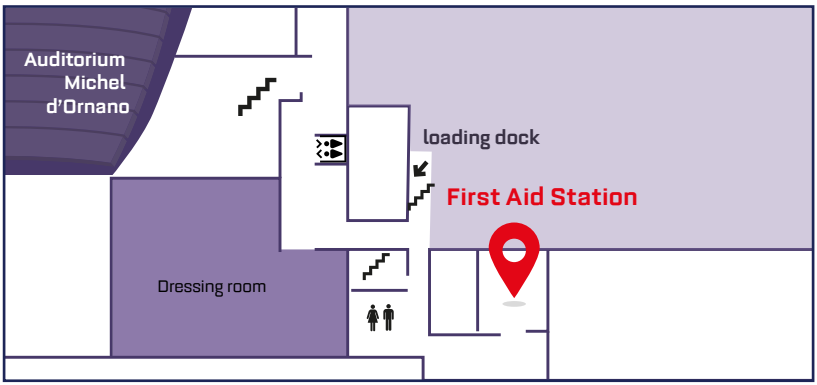
- **Ça roule - Location de vélo**
  27 Av. du Parc Cordier, 14360 Trouville-sur-Mer
  Tel: +33 7 81 11 17 34
  Open: Monday to Sunday, 9:00 a.m. to 7:00 p.m.

Some hotels and tourist residences also provide bike rental services for their guests.

First Aid at the venue

First Aid Station Map

Level -1



The First Aid Station is located on Level -1 of the building, within the private / administrative area.

However, it remains accessible to the public, if necessary, either via the loading dock or through the garden promenade of the auditorium.

Procedure in case of emergency

In case of any issue, please do not hesitate to inform a security officer on site, who will immediately put you in contact with the Security Control Room.

Alternatively, you may contact the project managers:

- Adeline Jeanne: +33 6 71 52 38 11
- Solène Clément: +33 7 87 02 35 52

Hospital

Functional Rehabilitation Center Deauville (Part of Hôpital Privé du Pays d'Auge)

- Address: 28 Impasse Florian de Kergorlay, 14800 Deauville, France
- Phone: +33 2 31 87 73 00
- Hours:
  - Monday–Friday: 9:00 a.m. to 6:00 p.m.
  - Saturday: 9:00 a.m. to 4:00 p.m.
  - Sunday: Closed (standard outpatient hours)
- Website: www.hppa-deauville.lna-sante.com

Pharmacies

Pharmacie de l'Horloge

- Address: 14 Place Morny, 14800 Deauville
- Hours: 9:00 a.m. to 7:30 p.m.
- Phone: +33 2 31 88 20 47

Pharmacie de l'Eglise

- Address: 190B Avenue de la République, 14800 Deauville
- Hours:
  - Monday-Saturday: 9:00 a.m. to 7:30 p.m.
  - Sunday: Closed
- Phone: +33 2 31 88 79 49
- Website: www.pharmacie-eglise-deauville.com

Pharmacie du Port

- Address: 138 Boulevard Fernand Moureaux, 14360 Trouville-sur-Mer
- Hours:
  - Monday-Saturday: 9:00 a.m. to 1:30 p.m. and 2:00 p.m. to 7:30 p.m.
  - Sunday: 9:00 a.m. to 5:00 p.m.
- Phone: +33 2 31 88 10 59
- Website: www.pharmacieduport14.fr

Registration

IPAC'26 is an in-person event

We firmly believe that IPAC presents an extraordinary opportunity for the entire accelerator community. It brings together experts, allowing the engineers, scientists and younger generation to meet.

During the conference we organise as well as the scientific presentations an exceptionally large industrial exhibition and a specific industrial session. These events aim to provide industry leaders with a platform to showcase their latest technological advancements in particle accelerators. Additionally, they offer engineers and scientists the chance to engage with the large industrial community regarding ongoing and futur projects and their specific needs. Students, in particular, have a unique opportunity to present themselves and discuss with the industry on their future plans and projects.

These goals are best achieved through direct interpersonal relationships, which we strive to foster throughout the conference. This includes our scientific program and various social opportunities such as coffee breaks, dedicated sessions and evening events.

Registration fees	Early bird October 9, 2025 – March 15, 2026	Full fee From March 16, 2026
EPS member – Incl full social programme	**790 €**	**990 €**
Regular participant – Incl full social programme	**890 €**	**990 €**
Students Master or Doctoral studies (Student with University affiliation) – Incl IPAC'26 Accelerator tutorials (and Lunch) on Saturday 16th – Incl housing Friday 15th and Saturday 16th – Incl full social programme	**475 €**	**990 €**
Accompanying person – Incl full social programme	**350 €**	-
Exhibitor extra pass – Full social programme	**890 €**	**990 €**

The above-mentioned fees include VAT 10%

The fees include

- Attendance at all sessions
- Conference kit
- Coffee/tea breaks during the conference
- Welcome reception on Sunday, May 17, 2026 *
- Conference reception on Tuesday, May 19, 2026 *
- Conference banquet on Thursday, May 21, 2026 *
- Laboratory tours (if selected) *

(*) important note

IPAC'26 is a sustainable event, designed and organized to minimize the impact on the environment and waste. Social events have been reserved for those who properly booked them upon registration. To mention that there is a maximum numbers of attendies possible.

Check-in Time Table

The Registration area is located in the CID, ground floor:

- Saturday, May 16 — 8:00 a.m. to 12:00 p.m. / 1:30 p.m. to 6:00 p.m.
- Sunday, May 17 — Student jury and exhibitors only
9:00 a.m. to 12:00 p.m. / 1:00 p.m. to 6:00 p.m.
Open for all participants:
2:00 p.m. to 6:00 p.m
- Monday, May 18 — 8:00 a.m. to 4:00 p.m.
- Tuesday, May 19 — 8:00 a.m. to 4:00 p.m.
- Wednesday, May 20 — 8:00 a.m. to 4:00 p.m.
- Thursday, May 21 — 8:00 a.m. to 4:00 p.m.
- Friday, May 22 — 8:00 a.m. to 12:00 p.m.



Lunch boxes

Lunches are not included in the registration fee. IPAC'26 proposes Lunch boxes to be purchased in advance for the days of the conference, directly upon your registration.

Lunch boxes will be delivered from 12:00 p.m. to 2:00 p.m., in the Refreshment and Coffee Break Area; they will be distributed only to those who have booked them.





JEMA

Powering Big Science, Industrial & Medical Innovation

Leading expert in high-performance power solutions for scientific, medical and industrial applications

Power supplies

- Up to 3 MW / 30 kA
- Modular & Custom Systems

RF Amplifiers

- 30 MHz to 3 GHz
- Up to 500 kW

HV Systems

- Up to 50 kV / 4 kA
- Nanosecond precision

Our 3 pillars



Power Quality

Reduced harmonics & stable infrastructure

Energy Efficiency

SiC & GaN technologies

Power Density

Compact & High-performance systems

www.jema-power.com



Student

Student grants. 28
- Student programme 28
- Grant requirements. 28
- Coordinators 28
- Student tutorials 29
- Student programme 29
- Student grants sponsors 30

Student poster session 32
- Hours, location and setup 32
- Prizes and judging 32
- Floorplans 33

Student grants

Student programme

The weekend preceding the conference will be dedicated to student activities. This includes a session of accelerators tutorials on Saturday, May 16, a specific technical training on Sunday morning for granted students and a poster session on Sunday afternoon and open to all conference attendants.

Grant requirements

- Must present their work in the special student poster session on Sunday, May 17
- Must attend the tutorial sessions preceding the conference if they are registered with « student fee »
- Must be available to act as scientific secretaries (assisting the Session Chairs/ running microphones) during the conference sessions
- Must submit a contribution to the proceedings

Coordinators

Chair & Tutorial: **Eduard Prat**, PSI Switzerland

Americas: **Rob Ainsworth,** FNAL, USA

Asia: **Huang-Hsiu Tsai**, SNRRC, Taiwan

EMEA: **Alessandro Fabris**, ELETTRA, Italy
Nuria Catalan Lasheras, CERN, Switzerland

Local: **Julien Michaud,** IJClab, France
Pierre Korysko, CERN, Switzerland

Student tutorials

A programme of lectures for students is programmed on Saturday, May 16 (full day) at the conference center.

The lectures will take place in the Thalasso auditorium in the main conference building. They will give an overview of the different topics discussed during the conference.

Granted students and participants registering with "student fee" **are obliged to attend the tutorials**.

For compulsory and exceptional cases please contact the Local Student Grant Programme Manager (**student@ipac26.org**).

Students must register to the conference at the registration desk on Saturday, May 16 from 8:00 to 9:00 a.m.. Please respect the timing.

A specific Indico page will be announced with the programme.

Student programme

Saturday, May 16, 2026

9:00 a.m.	**Welcome words** *Eduard Prat and Julien Michaud*
9:10 a.m.	**Colliders and related accelerators** *Yannis Papaphilippou*
10:10 a.m.	**Photon sources and electron accelerators** *Hitoshi Tanaka*
11:10 a.m.	**Advanced acceleration techniques and novel particle sources** *Edda Gschwendtner*
12:10 p.m.	Lunch buffet
1:30 p.m.	**Hadron accelerators** *Hongwei Zhao*
2:30 p.m.	**Beam dynamics and EM fields** *Nicholas Pichoff*
3:30 p.m.	**Beam instrumentation, controls, feedback and operation aspects** *Peter Forck*
4:30 p.m.	Coffee break
5:00 p.m.	**Acceleration technology and sustainability** *Mike Seidel*
6:00 p.m.	**Applications of accelerators, engagement with industry, technology transfer and outreach** *TBC*

Student grants sponsors

We warmly thank the sponsoring organisations and institutes worldwide for funding the IPAC'26 grant programme!

The generous sponsors for student grants this year are:






























FRIB


NSRRC
國家同步輻射研究中心
National Synchrotron Radiation Research Center


INSTRUMENTATION
TECHNOLOGIES


MAX IV


GSI


PSI


HZB
Helmholtz
Zentrum Berlin


RadiaBeam


HZDR
HELMHOLTZ ZENTRUM
DRESDEN ROSSENDORF


RÉGION
NORMANDIE


JAI
John Adams Institute
for Accelerator Science


SIGMAPHI
ACCELERATOR TECHNOLOGIES


KIT
Karlsruher Institut für Technologie


SLAC
NATIONAL
ACCELERATOR
LABORATORY


INFN
LNF
Istituto Nazionale di Fisica Nucleare
Laboratori Nazionali di Frascati

Student poster session

Hours, location and setup

Sunday, May 17, 2026

From 2.00 p.m. to 6.00 p.m.
Galerie Casino (Entrée Royal), Centre International de Deauville

Posters presented during this session will be considered for the best student poster prize. Students should attend their posters for interactions with judges and arriving conference delegates for the entire session.

Student posters are presented twice during the conference: during the student poster session, and during the standard poster sessions.

All students are strongly encouraged to present their work during this session. The students receiving a grant to attend the conference must present their work in this session and submit a contribution to the proceedings.

Students are required to remove their posters at the end of the session. Any poster left on its poster board after 6.30 p.m. will be removed.

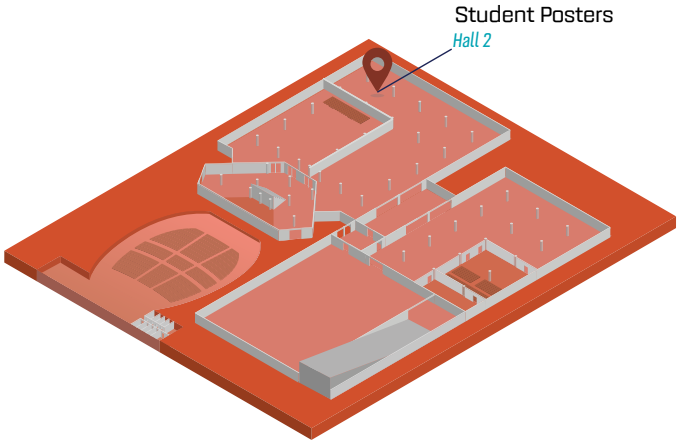
Prizes and judging

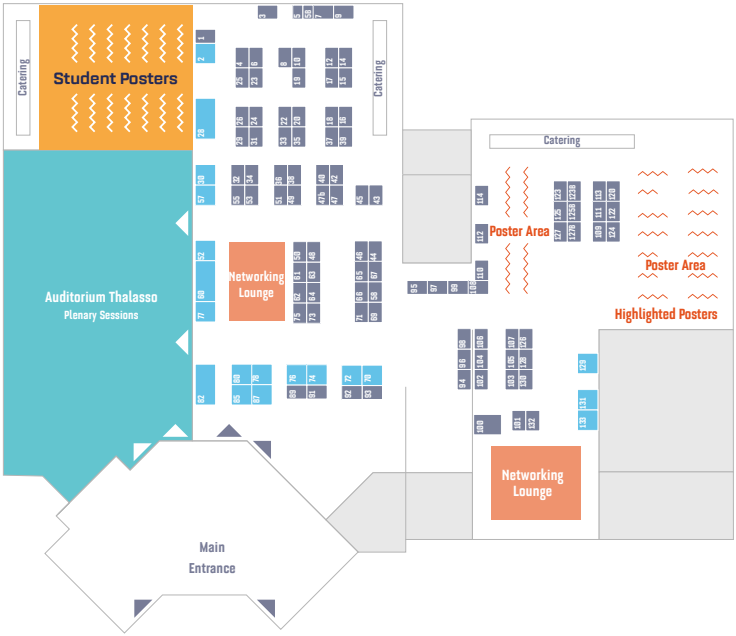
Best student posters will be awarded to 2 students whose work, presented in the special student poster session (Sunday, May 17, between 2:00 p.m. and 6:00 p.m.) is particularly meritorious. Each winner will receive a cash prize of EUR 500.00, presented during the Accelerator Prizes Special Session during IPAC'26 on Thursday, May 21 afternoon.

Floorplans

The students' poster session will be hosted in Exhibition Hall 2. **Level -2**

Level -2







Extreme light for laser-driven particle acceleration.

The **Extreme Light Infrastructure** is the world's largest laser-based research infrastructure. It is an international user facility offering access to world-class, high-power, high-repetition-rate laser systems for multi-disciplinary science.

www.eli-laser.eu

eli



Programme

Scientific programme 36
- Invited speakers 37
- Speaker preparation guidelines 42
- Programme codes 44
- Session chairs 45
- Poster sessions 50

Speaking opportunity 52

Entertainment session 53

Equal opportunities session 54

Industry session 56
- Topic 1: Sustainable procurement and project lifecycle 57
- Topic 2: Training, recruiting, and sharing young technical staff 57
- Satellite meetings during the conference 58

Satellite meetings 58
- Welcome Reception 61

Social programme 61
- Conference Reception 62
- Conference Banquet 63

Laboratory tours 64
- GANIL (Grand Accélérateur National d'Ions Lourds) 64
- Synchrotron SOLEIL 66
- ESRF (European Synchrotron Radiation Facility) 68

Scientific programme

Scientific programme information

The Scientific Programme is the result of a collaboration between the **Scientific Programme Committee,** the **Organising Committee**, and the **Scientific Advisory Board.**

The aim of the scientific programme is to inspire the exchange of experiences and ideas between the accelerator community worldwide.

The Scientific Programme foresees Invited Oral presentations (30 minutes), Contributed Oral presentations (20 minutes) and Poster presentations (available every afternoon from Sunday to Thursday). A preliminary skeleton of the IPAC'26 schedule is given below and it will be updated as the programme evolves.

Invited speakers

Plenary sessions:



GANIL - facility latests achievements and upgrades
Robin Ferdinand, GANIL



CERN's future vision and priorities
Mark Thomson, CERN



Synchrotron light facility updates: the bright future of synchrotron science
Laurent Chapon, ANL



First Acceleration of Positive Muons: From Initial Demonstration to High-Energy Development
Masashi Otani, KEK



Commissioning Progress of the ESS Linear Accelerator
Natalia Milas, ESS



Review of inverse Compton scattering sources and research paths towards fundamental physics studies
Vittoria Petrillo, Uni. Milan and INFN



Machine learning for design and control of particle accelerators: A look backward and forward
Auralee Edelen, SLAC



The European Research Roadmap on Concepts and Technologies for Accelerators
Mike Seidel, PSI

MC1: Colliders and Related Accelerators



Project status and R&D efforts for Super Tau-Charm Facility
Jingyu Tang, Hefei



Prospects for linear colliders
Steinar Stapnes, UiO



A quarter century of RHIC – performance far beyond design
Michiko Minty, BNL

MC2: Photon Sources and Electron Accelerators



Commissioning and current status of High Energy Photon Source (HEPS)
Yuhui Dong, CAS



Attosecond FEL Physics
Agostino Marinelli, SLAC



Commissioning and Performance of the ThomX Compact Compton Source Demonstrator
Iryna Chaikovska, IJClab



MAX 4U, an upgrade of the MAX IV 3 GeV ring
Eshraq Al-Dmour, MAX IV

MC3: Advanced Acceleration Techniques and Novel Particle Sources



High quality electron beams with tunable energy produced by laser-plasma acceleration
Brigitte Cros, Uni. Paris Saclay



First direct observation of a wakefield generated with structured light
Aaron Liberman, Weizman



Controlled injection and acceleration of 10 GeV-class electron beams in a laser wakefield accelerator
Alex Picksley, LBNL



Laser Plasma Accelerated Proton Bunches surpassing 100 MeV
Ulrich Schramm, HZDR

MC4: Hadron Accelerators



First Lasing of a Cavity Based X-ray FEL
Andrea Denker, HZB



Status and Comparison of World-wide In-flight Fragment Separators
Haik Simon, GSI



Accelerator Complex Evolution at Fermilab
Mary Convery, FNAL



Progress and status of high intensity heavy ion accelerator facility (HIAF) in China
Jiancheng Yang, IMP

MC5: Beam Dynamics and EM Fields



Overview of crab cavities for light sources and particle colliders
Rama Calaga, CERN



Manipulating and Diagnosing Electron Beam with Cross-Plane Coupling in Transverse and Longitudinal Phase Space
Seongyeol Kim, PAL-XFEL



Realization of High-Intensity Beams with Smaller Emittance Without a Transverse Feedback System
Yoshihiro Shobuda, JPARC



Beam Dynamics in the SNS Linac and Beam Test Facility
Kiersten Ruisard, ORNL

MC6: Beam Instrumentation, Operation Controls, Feedback and Operational Aspects



ML-driven Automated Tuning of SACLA XFEL: Progress and Future
Eito Iwai, JASRI



Overview of the Beam Position Monitors Development for the Next Generation Light Sources
Laura Torino, ALBA



From femtosecond to attosecond RF field control
Frank Ludwig, DESY

MC7: Accelerator Technology and Sustainability



Development of low period cryogenic permanent magnet undulators, (TBC)
Mathieu Valléau, Soleil



HTS Technology development for energy efficient magnets in PSI Large Research Facilities
Stephane Sanfilippo, PSI



Innovate for Sustainable Accelerator Systems (iSAS)
Maud Baylac, LPSC



The tristron, a new paradigm in high-efficiency RF power generation
Igor Syratchev, CERN

MC8: Applications of Accelerators, Engagement with Industry, Technology Transfer and Outreach



Particle Accelerator-driven Muon Spectroscopy: An invaluable tool to understand our material world
Adrian Hillier, STFC



Accelerator-based lithography and the Induction Storage Ring Light Source
Michael Ehrlichman, SLAC

Speaker preparation guidelines

General Requirements

- Slides will use the **16:9 aspect ratio.**
- Presentations must be uploaded to Indico **at least one day before their scheduled time** in order to allow verification and transfer to the conference A/V file server system.
- There will be absolutely no provision for authors to use their personal computers under any circumstances.
- Each invited Oral will take 25 mins + 5 mins for Q&A
- Each contributed Oral will take 15 mins + 5 mins for Q&A

Once the presentations have been uploaded to the conference server, they should be checked on the conference computers provided in the Speaker Preparation Room: SUNDANCE on the ground level of the conference center. Please go there to present yourself.

Slides that have been successfully submitted and presented will be published in the web version of the proceedings without further action on the part of the speaker.

Please, do not hesitate to contact the Presentation Manager (in the Speaker Preparation Room, SUNDANCE, during the conference) for any questions you may have on the preparation of your oral presentation.

If you have any special requirements concerning visual aids, including movies and/or audio, please contact the IPAC'26 Editorial Team in advance of the conference via email to scientific.secretariat@ipac26.org, or prior to the presentation in the Speaker Preparation Room as soon as possible.

Speaker Preparation Room

The Speaker Preparation Room is in the SUNDANCE room.

The day before presentations, all speakers are required to check that their slides are working correctly on the computers located in this room that are the same as those used in the auditoria.

Speaker Preparation Room hours:

- **Sunday, May 17:** 2:00 p.m. to 5:30 p.m.
- **Monday, May 18:** 8:15 a.m. to 12:30 p.m. and 2:00 p.m. to 5:30 p.m.
- **Tuesday, May 19:** 8:15 a.m. to 12:30 p.m. and 2:00 p.m. to 5:30 p.m.
- **Wednesday, May 20:** 8:15 a.m. to 12:30 p.m. and 2:00 p.m. to 5:30 p.m.
- **Thursday, May 21:** 8:15 a.m. to 12:30 p.m. and 2:00 p.m. to 5:30 p.m.
- **Friday, May 22:** 8:15 a.m. to 11:00 a.m.

Presentation Equipment & Software

Laptop PCs with Windows 10 will be used for displaying presentations. Authors will not be allowed to use their personal computers.

Software pre-installed on the computers for the presentations include MS Power Point, LibreOffice, Firefox, Chrome and Adobe Acrobat.

A screen displaying the speaker's presentation, a remote control/pointer for slides advancement and a countdown timer with warnings will be available for the speakers on the podium.

Preparation of Presentation Slides

In addition to the presentation source file, **we require a PDF** file for inclusion in the conference proceedings.

In all, PDF, PowerPoint and LibreOffice Impress files, be sure that all fonts are embedded. No external resources (like linked, not embedded, images) should be used.

Upload of Presentations

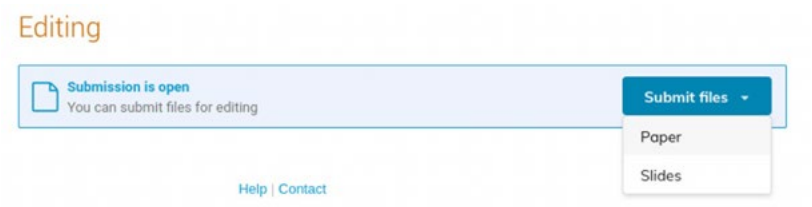
Speakers are required to upload their presentation in exactly the same way as their paper contributions.

Files must be named with the programme code followed by "_talk", for example:

- MOPA999_talk.pptx
- MOPA999_talk.pdf

and then uploaded through the IPAC'26 Indico "My Contributions" area.

Be sure to select "Slides" in the "Submit files" button under the Editing area of your contribution:



During the presentation

The session chair assistant will help speakers with their presentations and any minor issues. For technical AV issues in the auditoria, a technician will be on hand to assist. For presentation issues, the Presentation Manager will assist.

No extra time will be allocated in case of technical problems.

Programme codes

Day

SU	Sunday
MO	Monday
TU	Tuesday
WE	Wednesday
TH	Thursday
FR	Friday

Presentation types

I	**I**nvited oral
O	contributed **O**ral
V	in**V**ited poster
P	contributed **P**oster
IN	**In**dustry
EO	**E**qual **O**pportunity session

For posters:

001-299	EMEA
301-599	Americas
601-899	Asia"

Location

M	Auditorium **M**ichel d'Ornano
T	Auditorium **T**halasso
-	CASINO Theater
W	**W**ine
R	**R**oquefort
B	**B**aguette
C	**C**hampagne

Special

OP	**O**pening **P**lenary
CP	**C**losing **P**lenary
OR	**O**utreach
E	**E**ntertainment

Examples

MOOM1	**MO**nday, Contributed **O**ral, Auditorium **M**ichel d'Ornano, **1**st presentation
WEIT1	**WE**dnesday, **I**nvited Oral, Auditorium **T**halasso, **1**st presentation
WEOM2	**WE**dnesday, Contributed **O**ral, Auditorium **M**ichel d'Ornano, **2**nd presentation
THOT3	**TH**ursday, Contributed **O**ral, Auditorium **T**halasso, **3**rd presentation

Session chairs

Monday, May 18, 2026

9:00 a.m. - 9:40 a.m.	**MOI0M**	**Michel d'Ornano**
Peter McIntosh - STFC		
9:40 a.m. - 10:40 a.m.	**MOI0M**	**Michel d'Ornano**
Peter McIntosh - STFC		
11:10 a.m. - 12:40 p.m.	**MOI0M**	**Michel d'Ornano**
Alessandro Fabris - Elettra - Sincrotrone Triest		
2:00 p.m. - 4:00 p.m.	**MOI7M / MOO7M**	**Michel d'Ornano**
Nuria Catalan - CERN		
2:00 p.m. - 4:00 p.m.	**MOI1T / MOO1T**	**Thalasso**
Adriana Rossi - CERN		

Tuesday, May 19, 2026

9:00 a.m. - 10:30 a.m.	**TUI2M / TUO2M**	**Michel d'Ornano**
Jordi Marcos - CELLS		
9:00 a.m. - 10:30 a.m.	**TUI8T / TUO8T**	**Thalasso**
John Thomason - STFC		
11:00 a.m. - 12:30 p.m.	**TUI4M**	**Michel d'Ornano**
Ralf Gebel - FZJ & GSI		
11:00 a.m. - 12:00 p.m.	**TUI3T**	**Thalasso**
Tadashi Koseki - KEK		
12:00 p.m. - 12:30 p.m.	**TUI6T**	**Thalasso**
Tadashi Koseki - KEK		
2:00 p.m. - 4:00 p.m.	**TUI2M / TUO2M**	**Michel d'Ornano**
Yine Sun - ANL		
2:00 p.m. - 4:00 p.m.	**TUI7T / TUO7T**	**Thalasso**
Adriana Wawrzyniak - Solaris		

Wednesday, May 20, 2026

9:00 a.m. - 9:30 a.m. **WEI8M** **Michel d'Ornano**

Prapong Klysubun - SLRI

9:00 a.m. - 10:30 a.m. **WEI1T / WEO1T** **Thalasso**

Fulviat Pilat, ORNL

9:30 a.m. - 10:30 a.m. **WEO4M** **Michel d'Ornano**

Prapong Klysubun - SLRI

11:00 a.m. - 12:30 p.m. **WEI5M / WEO5M** **Michel d'Ornano**

Mamad Eshraqi - ESS

11:00 a.m. - 12:30 p.m. **WEI3T / WEO3T** **Thalasso**

Enrica Chiadroni - La Sapienza

2:00 p.m. - 3:40 p.m. **WEI5M / WEO5M** **Michel d'Ornano**

Marco Marchetto - TRIUMF

3:40 p.m. - 4:00 p.m. **WEO6M** **Michel d'Ornano**

Marco Marchetto - TRIUMF

2:00 p.m. - 4:00 p.m. **WEIN** **Thalasso**

Jean-Luc Revol - ESRF

Nicolas Berton - CEA

6:00 p.m. - 8:00 p.m. **WEEO** **Theatre Casino**

Atoosa Meseck - HZB

Thursday, May 21, 2026

9.00 a.m. - 10.30 a.m.	**THI2M / THO2M**	**Michel d'Ornano**

Viktor Malka - Weizmann

9.00 a.m. - 10.30 a.m.	**THI3T / THO3T**	**Thalasso**

Sarah Cousineau - ORNL

11.00 a.m. - 12.30 p.m.	**THI4M / THO4M**	**Michel d'Ornano**

Liangting Sun - IMP

11.00 a.m. - 12.30 p.m.	**THI6T / THO6T**	**Thalasso**

Toru Hara - RIKEN

2.00 p.m. - 3.20 p.m.	**THZ**	**Michel d'Ornano**

Ralph Assmann - GSI

3.20 p.m. - 4.00 p.m.	**TH**	**Michel d'Ornano**

Hanna Franberg-Delahaye - GANIL

Friday, May 22, 2026

9:00 a.m. - 10:30 a.m. **FRI6M / FRO6M** **Michel d'Ornano**

Marie-Helene Moscatello - GANIL

9:00 a.m. - 10:30 a.m. **FRI5T / FRO5T** **Thalasso**

Seughwan Shin - Korea-U

11:00 a.m. - 12:30 p.m. **FRI0M** **Michel d'Ornano**

Rogelio Tomas - CERN

12:30 p.m. - 1:30 p.m. **Michel d'Ornano**

Peter McIntosh - STFC

Poster sessions

Poster guidelines

General requirements

Each poster will be presented on a single board, whose dimensions are 100cm (39.4 inches) wide x 200cm (78.7 inches) high.

We recommend to prepare and print a poster of size **ISO A0** (84.1cm x 118.9cm) or **US Arch E** (36 in x 48 in) in PORTRAIT orientation on the board.

Note: Avoid landscape orientation for the A0/Arch E formats, as it will be too wide to fit the poster boards.

The Conference Organisers will provide all necessary supplies for mounting the posters (tape, etc).

Poster preparation guidelines are the same for the **standard Poster Sessions** and the **Student Poster Session**.

The Scientific Program Committee reserves the right to reject publication of papers that have not been properly presented or manned in the poster sessions. Manuscripts of your contributions to the proceedings (or enlargements of them) are not considered as posters and papers presented in this way will not be accepted for publication.

Poster display time

Assigned poster boards will be ready each morning from 8:30a.m.. All presenters are asked to hang their posters as soon as possible in the same morning of their assigned poster session. This way all delegates will be able to study them ahead of the poster session and come prepared with specific questions.

Presenters are also asked to remove their posters at the end of the session. Any poster left unmanned on its poster boards after 6:30 p.m. will be removed.

Timing

Dates: Monday, May 18 – Thursday, May 21

Daily hours: 4:00 p.m. to 6:00 p.m.

Location: **Hall 2,3 and 4**

Setup: Access available from 8:30 a.m. each day

Area symbols:

- **C**: Champagne for invited highlighted posters
- **B**: Baguette
- **W**: Wine
- **R**: Roquefort

Day symbols:

- **MO**: Monday
- **TU**: Tuesday
- **WE**: Wednesday
- **TH**: Thursday
- **SU**: Sunday

Floorplans


Catering
Student Posters
Auditorium Thalasso
Plenary Sessions
Main
Entrance
Networking
Lounge
Catering
Networking
Lounge
Poster Area
Catering
Highlighted Posters
Poster Area

Speaking opportunity

Date: **Tuesday, May 19, 2026**

Time: **01:30 p.m.**

Location: **Amphitheater Thalasso**

Design and Demonstration of a High-Efficiency, High-Power-Density GaN-Based Solid-State RF Amplifier for Accelerator Applications

Abstract

This paper presents the design and experimental validation of a high-efficiency, high-power-density Solid-State Amplifier (SSA) based on GaN (Gallium Nitride) HEMT technology for accelerator RF applications. The objective is to provide an advanced alternative to conventional LDMOS-based RF sources by improving efficiency, compactness, and long-term operational reliability.

Device characterization was performed at 500 MHz under continuous-wave (CW) operation. A single 350 W GaN transistor achieved a DC-to-RF efficiency of 75%. A 2.5 kW amplifier module demonstrated 65% efficiency, while a fully combined 50 kW SSA system achieved an overall efficiency of 58%. Compared to equivalent LDMOS-based systems, the proposed GaN-based architecture provides a 10–15% efficiency improvement, resulting in reduced electrical power consumption for high-power accelerator operation.

The high power density of GaN devices enables enhanced power integration and significant system miniaturization, substantially reducing the overall footprint. In addition, GaN technology offers improved thermal robustness and high-temperature capability, supporting reliable long-term CW operation. Enhanced phase stability, reduced AM/PM conversion, improved gain linearity, and superior phase balance further demonstrate the suitability of GaN-based SSAs for precise accelerator RF control.

These results confirm that GaN-based SSA technology represents a promising next-generation RF source solution for high-power accelerator systems. This work was carried out under the 4GSR project, with PAL (Pohang Accelerator Laboratory) serving as a joint R&D partner and KBSI acting as the lead project administrator.

Session sponsored by RFHIC

Entertainment session

Date: **Thursday, May 21, 2026**
Time: **03:20 p.m.**
Location: **Amphitheater Michel d'Ornano**

Horses in France: a ride through history, regions and science



Abstract

Would you like to know more about the horse industry, a French sector of excellence particularly present in Normandy? Let's discover it through a ride across the cultural heritage of equestrian activities, the presence of horses, donkeys and mules all over the French regions and the huge variety of scientific issues involved in the development of the equine sector.

Horse: this simple word often evokes lots of powerful images, emotions and feelings. Historically, horses and humans have been closely linked to each other in many ways, from the beginning of the domestication of equines in the Palaeolithic period to the vital question of how to keep in touch with nature in our modern environment. These many activities can be economic, sport, agricultural and cultural.

From the scientific point of view, horses also provide a field for research and knowledge development for a great variety of disciplines like health sciences, genetics, sustainable development technologies and humanities and social sciences.

The French horse industry illustrates how the equine sector can be an accelerator for territorial development, breakthroughs in sport, scientific progress and social cohesion. Let's share some insights of these accelerations, as far as the wind blowing between the ears of a galloping horse!

Speaker : Rosine Travers

Rosine TRAVERS studied engineering at the Ecole Polytechnique before becoming a State Engineer after graduating from the National School of Rural, Water and Forest Engineering (ENGREF - Ecole nationale du génie rural, des eaux et des forêts).

She has worked as a civil servant on agricultural and environmental policies for over 20 years, mainly for the French Ministry of Agriculture in territorial and central administrations. She has been in charge of various jobs concerning trade negotiations, water and soil management policies as well as in financial affairs and human resources.

She joined the French Horse and Riding Institute (IFCE) in 2024. As a territorial delegate, she is in charge of implementing the missions of the IFCE in the three regions of the North-West of France (Normandy, Ile-de-France and Hauts-de-France). These missions include supporting the French horse industry, producing and transferring horse and riding-related knowledge, developing training courses, promoting horse riding and high-level equestrian sports, ensuring equine traceability and upholding both the tangible and the intangible equestrian heritage.

Equal opportunities session

Date: **Wednesday, May 20, 2026**
Time: **6:00 p.m.**
Location: **Theater at Casino Barrière Deauville**



Abstract

Research into gender equality in physics frequently reveals a number of notable issues. These include **the waste of talent**, the **lack of significant progress**, and the **implementation of merely symbolic changes**. This is a matter of concern given that, since the early 2000s, measures aimed at promoting gender equality in physics have been in place in many European research centres, universities, and schools. For almost two decades, it has been imperative to consult with equal opportunities officers prior to the appointment of any new personnel, to include equal opportunity measures in every project proposal, etc. Nevertheless, **physics continues to exhibit one of the lowest rates of gender diversity of all STEM** subjects. Accelerator physics demonstrates a particularly pronounced disparity. This lack of success calls for a more profound examination. As gender equality in physics is a social and historical phenomenon, we ask a sociologist and a historian specialising in gender equality in science the following questions: The central question is whether real progress has been made in terms of gender equality in physics in Europe between 2010 and 2025. If not, why not? If so, what progress has been made? Which factors have been most effective? Why did it work? What measures would be adequate in the future?

See for example:
https://doi.org/10.1038/s42005-024-01579-9
https://members.eps.org/blogpost/751263/505063/Best-practices-of-Equal-Opportunity-Committees-discussed-at-annual-congress-of-SIF
https://levana.leopoldina.org/receive/leopoldina_mods_00688)

Speakers



Beate Ceranski

Beate Ceranski is a historian of science and technology at the University of Stuttgart. After studying physics, mathematics and protestant theology at the University of Bonn she obtained her Ph.D. in the history of science at the University of Hamburg. Her dissertation on the Bolognese physicist Laura Bassi won several prizes, and the history of women in science has remained one of her main areas of expertise ever since. Beate Ceranski has also done extensive research on the history of radioactivity research and the history of universities and participated in an interdisciplinary VR 3D preservation project of gyro instruments. She has curated several exhibitions, most recently on the Stuttgart university collections (Stuttgart 2022) and has appeared in radio and TV contributions on the history of women in science.



Ewelina Ciaputa

Ewelina Ciaputa is a sociologist and researcher at the Institute of Sociology, Jagiellonian University in Kraków. Her work focuses on gender equality and gender equality mainstreaming in academic context.

Her scholarly contributions to the field of gender equality in science include co-authorship of studies examining structural inequalities in physics, such as Gender dimensions of physics: a qualitative study from the European Research Area and Gendered excellence in physics, which explore the mechanisms shaping gendered experiences within academic physics across Europe. Ewelina Ciaputa has been actively involved in several major European research projects dedicated to advancing gender equality in research and innovation. Notably, she contributed to GENERA: Gender Equality Network in the European Research Area, a project explicitly focused on improving gender equality within physics institutions in Europe. She has also worked on initiatives such as INSPIRE, RESISTIRE, UniSAFE, and CASPER, all aimed at strengthening gender equality policies, counteracting gender-based violence, and supporting institutional change in higher education and research organizations. Since 2023, she has additionally coordinated the Gender Equality Plan at Jagiellonian University, contributing to systemic transformations that foster more inclusive academic environments.

Industry session

Date: **Wednesday, May 20, 2026**

Time: **2:00 p.m.**

Location: **Amphitheater Thalasso**

The aim of the IPAC'26 industrial session is to give to Industrial Companies involved in the Particle Accelerator market extremely useful insights to enhance their development and success in this business field.

To this purpose, in the two hours session, a gender-balanced lineup of eight distinguished speakers and experts will cover the following fundamental topics:

- finding optimal technologies
- entering the global accelerator market
- collaborating with experienced suppliers while maintaining open scientific discussions
- identifying emerging accelerator projects that could benefit from industrial partner's expertise.

The goal is to engage Industries and Research Institutions in a dynamic discussion that will broaden the Companies horizons with tangible support for their business. Successful industrial engagement can be achieved only by a coordinated collaboration among industrial, governmental, and academic institutions.

Topic 1:
Sustainable procurement and project lifecycle

Sustainability is becoming a key requirement for projects and developments — from design and procurement to operation and end-of-life management. Direct and indirect emission, transport are two topics for which key performance indicators are today well identified. On the other end, procurement which contribute largely to green house gas emission is more difficult to manage.

This session will explore sustainability issues during the full project lifecycle including procurement and discuss how industry can provide essential lifecycle information and ensure compliance.

- Part 1: Introduction and CERN experience – Speaker Enrico Cenini, Environmentally Responsible Procurement at CERN
- Part 2: The situation in ASIA
- Part 3: Feedback from industry – SIGMAPHI et RI

SIGMAPHI is a magnet company already engaged in a corporate social responsibility approach.

Time for questions

Topic 2:
Training, recruiting, and sharing young technical staff

This topic will address current challenges in attracting, training, and retaining highly skilled technical staff for accelerator development and operation. Insights will be shared by laboratories and industry. The intention is to discuss how laboratories, universities, and companies can encourage the next generation to pursue careers in accelerator-related fields. Statistics should be provide on how many students remains in the field after their training.

- Part 1: Introduction by Elias Métral, Director of JUAS,
- Part 2: The situation in U.S. by John Bird director of USPAS, U.S. Particle Accelerator School.
- Part 3: Short contribution from industry (COSYLAB)

CosyLab is working on services in software and electronics. Its is two topics in which it is difficult to recruit and get skilled and expertise staff. It is also topics which are evolving fast. In addition in the coming years, AI will have to be integrated in the job. Speaker will express on staff already well trained in accelerators could be a must, especially for supporting companies.

Time for questions

Satellite meetings

Satellite meetings during the conference

Meeting rooms located at the Conference Center will be available for satellite meetings **during the conference** (May 18 to May 21, 2026) during lunchtime.

LA CLOSERIE ★★★★

Friday, May 15, 2026

8:30 a.m.-6:00 p.m.
Hôtel La Closerie Deauville

Insertion Devices for Future Light Sources Workshop ID 26

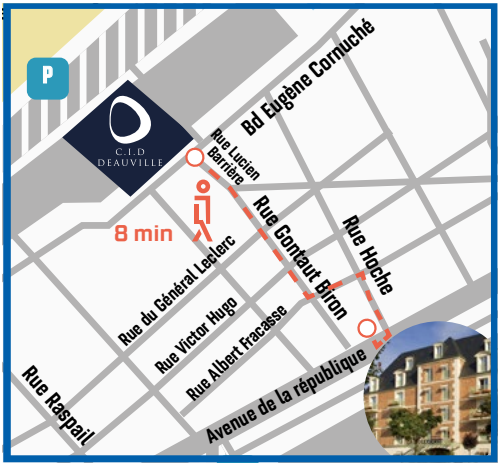
By registration

Saturday, May 16, 2026

8:30 a.m.-12:30 p.m.
Hôtel La Closerie Deauville

Insertion Devices for Future Light Sources Workshop ID 26

By registration



LA CLOSERIE ★★★★

156 Avenue
de la République
Deauville

C.I.D
CENTRE INTERNATIONAL DEAUVILLE

Sunday, May 17, 2026

11:00 a.m.-12:00 p.m.
Gatsby

IUPAP – Hackathonino

Open-Students

Monday, May 18, 2026

1:00 p.m. - 2:00 p.m.

Gatsby

EPS-AG Board Meeting

By invitation

Tuesday, May 19, 2026

12:30 a.m. - 2:00 p.m.

Indiana Jones

IPAC-CC

By invitation

Tuesday, May 19, 2026

12:30 a.m. - 2:00 p.m.

Gilda

AI for particle accelerators

By registration

Tuesday, May 19, 2026

1:00 p.m. - 3:00 p.m.

Kane

Accelerate PM Steering Committee

By invitation

Wednesday, May 20, 2026

12:30 a.m. - 2:00 p.m.

Kane

EPS-AG GA meeting

Wednesday, May 20, 2026

12:30 a.m. - 2:00 p.m.

Gilda

ARTIFACT – Network

By registration

Wednesday, May 20, 2026

12:00 p.m.-2:30 p.m.
Auditorium Lexington (Level -2)

Electron-Ion Collider (EIC) Accelerator Collaboration

By registration

Wednesday, May 20, 2026

1:30 p.m. - 2:30 p.m.

Gatsby

Tutorial for Authors - Reviewers

Wednesday, May 20, 2026

4:00 p.m.-6:00 p.m.

Gilda

JACoW Board of Directors Meeting

On invitation

Wednesday, May 20, 2026

4:00 p.m.-6:00 p.m.

Gatsby

IUPAP WG14 meeting

On invitation

Thursday, May 21, 2026

12:30 p.m.-2:30 p.m.

Gilda

JACoW Stakeholders Meeting

By invitation

Thursday, May 21, 2026

12:30 p.m.-2:00 p.m.

Kane

Improved interoperability between lattice descriptions, simulation tools and operational accelerator data

Thursday, May 21, 2026

12:30 p.m.-2:00 p.m.

Gatsby

IUPAP – Hackathonino

By registration

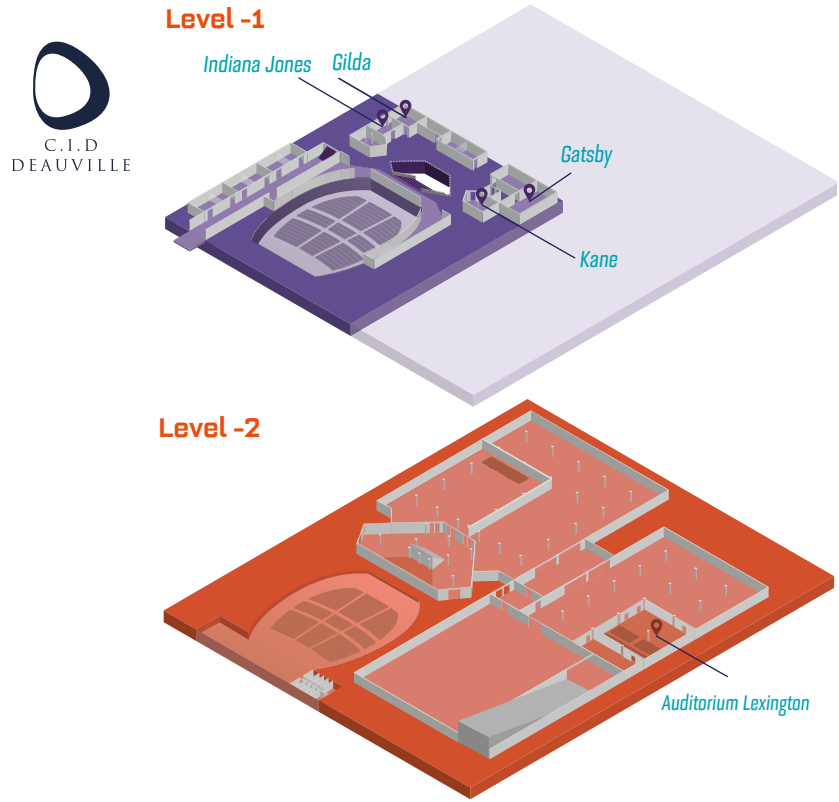
Friday, May 22, 2026

12:00 a.m. - 6:00 p.m.

Gilda

IPAC'27 SPC2 Meeting

C.I.D DEAUVILLE



Social programme



Sunday, May 17, 2026

Welcome Reception

C.I.D
CENTRE INTERNATIONAL
DEAUVILLE

Included in the registration fee

Sunday, May 17 from 6:00 p.m. to 9:00 p.m.

IPAC'26 VENUE – CID Deauville

Informal standing cocktail with canape.

Conference venue

IPAC'26 is a sustainable event, designed and organized to minimize the impact on the environment and waste. Social events have been reserved for those who properly booked them upon registration.





Tuesday, May 19, 2026

Conference Reception

Included in the registration fee

Casinos Barrière

Tuesday, May 19, 2026 from 8:00 p.m. to 11:59 p.m.

Casino Barrière – Deauville

Informal party buffet dinner at the Casino.
Walking distance from IPAC'26 Venue (5').

IPAC'26 is a sustainable event, designed and organized to minimize the impact on the environment and waste. Social events have been reserved for those who properly booked them upon registration.





Thursday, May 21, 2026

Conference Banquet

Pôle international du Cheval LONGINES DEAUVILLE

Included in the registration fee

Thursday, May 21, 2026 from 7:30 p.m. to 1:00 a.m.

Pôle International du Cheval – PIC Deauville

Seated dinner and DJ party in an unusual place dedicated to Horses.

Shuttle buses are arranged for participants:

- from IPAC'26 venue to the PIC from 6:30 p.m. to 7:30 p.m.
- from the PIC back to IPAC'26 venue & hotels from 10:30 p.m. to 1:00 a.m.

IPAC'26 is a sustainable event, designed and organized to minimize the impact on the environment and waste. Social events have been reserved for those who properly booked them upon registration.



Laboratory tours

At the end of the conference, on Friday, May 22, 2026 three institutions will open their doors to a limited group of visitors (reservation has been made on first come first served basis).

GANIL (Grand Accélérateur National d'Ions Lourds)

Friday, May 22, 2026

From 1:30 p.m.– 7:00 p.m.

GANIL is one of the leading laboratories in the world engaged in research with ion beams. The accelerators, coupled to very high-performance detection instrumentation, enable researchers from all over the world to conduct unique experiments. The research themes are nuclear physics, nuclear astrophysics, astrochemistry, materials under irradiation, nanostructuring, radiobiology and innovative techniques for hadrontherapy.

The operation of GANIL relies on the expertise of various technicians and engineers working at the facility. These include, among others, staff dedicated to producing and transporting ion beams, preparing and ensuring proper running of experiments, including the data acquisition systems. Research teams propose experiments using state-of-the art technologies. Some of the required developments are carried out at GANIL in collaboration with experimentalists and engineers from other laboratories. The experimental and theoretical physicists work closely together for improving and deepening the knowledge on the science pursued. The smooth operation of the entire facility, and its accessibility to users, is ensured by the administrative personnel working alongside the scientific and technical staff. In all, about 300 people are employed in GANIL's different divisions.

The national scientific research centre (CNRS) and the French atomic and alternative energy (CEA) are the laboratory's two regulatory authorities. As a national laboratory, the facilities are developed through national collaborations (CEA and CNRS) as well as international collaborations and contributions. The SPIRAL2 facility was selected in 2006 by ESFRI, the European Strategy Forum on Research Infrastructures, as a project of scientific excellence. Every year GANIL receives several hundred researchers and engineers to collaborate on scientific experiments and projects. In total, nearly 1.000 researchers from 65 laboratories in 30 different countries compose the GANIL users community.

For more details, please visit the website: www.ganil-spiral2.eu



"Grand Accélérateur National d'Ions Lourds" in Caen - France



Synchrotron SOLEIL

Friday, May 22, 2026

From 1:30 p.m. – 8:30 p.m.

Located in the heart of the Paris-Saclay cluster, about 20 kilometers from Paris, SOLEIL is France's synchrotron radiation source.

In this Very Large Research Infrastructure, experiments are based on the use of light radiation produced by electron beams traveling at nearly the speed of light in a storage ring. This exceptionally bright radiation covers a very wide range of wavelengths: from infrared to X-rays, including ultraviolet. Its characteristics (intensity, focus, stability, etc.) make it possible to observe matter at all scales, down to the atomic level, for experiments in fundamental research, applied research, and industrial research.

Since 2008, SOLEIL has been serving many fields that are currently mobilizing science and industry, including physics, biology, chemistry, materials science, the environment, Earth sciences, and cultural heritage.

SOLEIL is under the dual supervision of the CNRS and the CEA, and offers its staff a multidisciplinary and international working environment.

SOLEIL was commissioned in 2006, with the first expert users in January 2007. The facility is operating 24/7 in top-up injection mode and delivers a 500 mA electron beam of 2.75 GeV for a ring circumference of 354 meters and an emittance of 4 nm.rad. Today 29 beam lines exploit simultaneously the intense stable photon beams produced all around the storage ring with photon energies ranging in 10 orders of magnitudes from THz to Hard X-ray radiation.

The SOLEIL II project is an ambitious modernization of the entire facility that will enable experiments up to ten thousand times faster, a thousand times more sensitive, with nanometer-scale resolution, etc., thereby making a decisive contribution to many societal challenges in advanced materials research, energy and sustainable development, health and well-being, the environment, etc.

The first supplies for the construction of SOLEIL II began in 2024. The current facility will continue to operate in parallel until fall 2028. SOLEIL II is scheduled to start up in 2030, with a ramp-up period until 2035.

For more details, please visit the website: www.synchrotron-soleil.fr



SOLEIL (Source Optimisée de Lumière d'Energie Intermédiaire du Lure)
Paris-Saclay in Paris suburbs, Saint-Aubin - France



@CEA

ESRF (European Synchrotron Radiation Facility)

Saturday, May 23, 2026

In the afternoon

With a brand-new generation of high-energy synchrotron, the ESRF is the world's brightest synchrotron light source and a centre of excellence for fundamental and innovation-driven research in condensed and living matter science. Located in Grenoble, France, the European Synchrotron owes its success to the international cooperation of 19 partner countries.

The ESRF – The European Synchrotron Radiation Facility – is the most intense source of synchrotron-generated light, producing X-rays 100 billion times brighter than the X-rays used in hospitals. These X-rays, endowed with exceptional properties, are produced at the ESRF by the high energy electrons that race around the storage ring, a circular tunnel measuring 844 metres in circumference.

Each year, more than 9000 scientists from around the world come to Grenoble, to "beamlines", each equipped with state-of-the-art instrumentation, operating 24 hours a day, seven days a week.

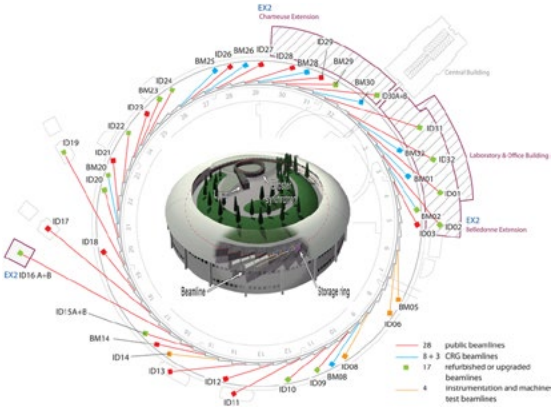
Thanks to the brilliance and quality of its X-rays, the ESRF functions like a "super-microscope" which "films" the position and motion of atoms in condensed and living matter, and reveals the structure of matter in all its beauty and complexity. It provides unrivalled opportunities for scientists in the exploration of materials and living matter in many fields: chemistry, material physics, archaeology and cultural heritage, structural biology and medical applications, environmental sciences, information science and nanotechnologies.

From making history in 1988 as the world's first third-generation synchrotron, to launching the first of a new generation of high-energy light source in 2020, the force of the ESRF is its capacity to innovate, pushing technology to its limits and seeking ever-higher performances in order to provide scientists with state-of-the-art instruments. ESRF-Extremely Brilliant Source (EBS) improves X-ray performances of brilliance and coherence by a factor of 100 compared to the previous source. Based on an award-winning lattice design, ESRF-EBS paves the way for a new standard of synchrotrons around the world.

For more details, please visit the website:www.esrf.fr



European Synchrotron Radiation Facility - Grenoble - France.



@CEA

RFHIC®

High Efficiency, Fully Intergrated, Ready for Industry

150kW, 500MHz

Next Gen GaN Solid-State Amplifiers for Accelerator Applications

GaN Solid-State Technology
High Reliability &
Long-Run Stability

Easy Repair
Tool Free,
Blind-Mate Architecture

Water-Cooled PSU
Maximum Reliability &
Stable Power



1. AC Breaker
2. PA Shelf
3. 3-Way-Combiner
4. HMI Touch Screen
5. Emergency Button

RFHIC's One-Stop Solution Service

Step 01.

GaN SiC Power Transistor

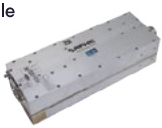
- Providing above 80% efficiency
- Fully matched to 50 ohms available
- CW/ Pulse available



Step 02.

GaN Solid-State Power Amplifier

- Built with GaN SiC Transistors
- Available up to 2.5kW
- CW/ Pulse available
- Close-loop control features



Step 03.

GaN Solid-State Amplifier System

- Built & Combined using GaN SSPAs
- Ea. System equipped with PSU
- MW of combined output power

Come and see us at Booth #129



Proceedings

Paper preparation guidelines 72

Paper submission 76

JACoW templates 79

Light peer review proceeding 80

Paper preparation guidelines

Templates

Use of the JACoW templates is mandatory for IPAC'26. The JACoW templates were updated in February 2026; do not use templates from previous conferences. For IPAC'26, customized templates will be available for each contribution with proper author information.

Always use the styles contained in the templates. These styles will automatically ensure correct typesetting and layout, so you won't have to fix these problems again.

For authors who wish to participate in Light Peer Review, it is recommended to use the LaTeX template, as this will minimize the need to reformat the contribution for the publisher version of the paper.

Length of contributions

Papers for **oral presentations** or i**nvited posters** may be up to **5 pages**.

Papers for **poster presentations** may be up to **3 pages** long. If contributions contain numerous **references**, these **may be carried over to extra pages.**

No other parts of the paper but references are allowed in these extra pages.

Page limits will be strictly respected; **all papers exceeding their limit will be returned to the author for revision or, at last, rejected.**

Checking references takes a significant amount of time for the editors. Please check that your references are correct and, when possible, include the DOI or ISBN of the document you are referring to. **Papers with several incorrect or incomplete references will be returned to the author for revision or, at last, rejected.**

Preprint marking

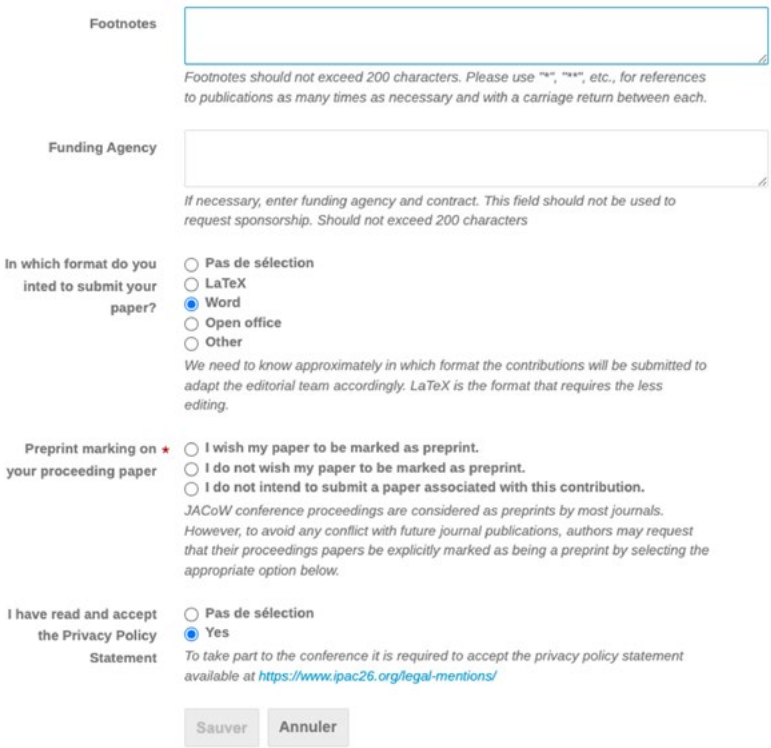
JACoW conference proceedings are considered as preprints by most journals. However, to avoid any conflict with future journal publications, authors may request that their proceedings papers be explicitly marked as being a preprint by selecting the appropriate option on the page of their contribution in indico.

To do so, proceed as follow:

1. Go to the indico page with all your contributions to this conference.
2. Click on the contribution you would like to have marked as preprint.
3. Click on the pen icon to the right of the contribution title.



4. Scroll down to the bottom of your contribution.
5. Answer to the question regarding the preprint marking of your paper.



Basic hints and tools

Detailed instructions on how to write a good JACoW paper are included in the JACoW LaTeX style guide and the JACoW MSWord style guide. We suggest to also read through the following pages or use the linked tools to ensure an acceptable quality of your papers:

- JACoW Author guidance
- Reference Search Tool
- CAT Scan Editor – docx & LaTeX validator

References

We have observed that fixing bad references in submitted papers is the most time consuming job for editors in the Proceedings Office.

Basic rules

- All bibliographical and web references should be numbered and listed at the end of the paper in a section called "References."
- When citing a reference in the text, place the corresponding reference number in square brackets, e.g. [3].
- A URL may be included as part of a reference, but the hyperlink must be removed (In Word use ctrl+k to remove).

We take the opportunity to repeat here the most frequent types of references.

Citations of JACoW publications

To get citations of JACoW publications correctly formatted use the JACoW reference search tool. Use this tool for all JACoW conference related citations, included those to papers presented to IPAC'26.

Citations of non–JACoW publications

It is crucial that all bibliographical references are written clearly and consistently across all the conference proceedings. **Always** use the EXACT formatting of references and citations in the templates.
Basic accelerator conference citation formatting

Presented at IPAC'26, "this conference"

[1] A. Author, et al., "Paper title", presented at the 17th International Particle Accelerator Conf. (IPAC'26), Deauville, France, May 2026 paper XXXXXX, this conference.
Note: "et al." should be used for 4 or more authors.

Unpublished proceedings papers (e.g. IPAC'25)

[1] A. Author, B. Author and C. Author, "Paper title", presented at the 16th International Particle Accelerator Conf. (IPAC'25), Tapei, Taiwan, Jun. 2025, paper XXXXXX.

Published papers (e.g. IPAC'23)

[1] A. Author and B. Author, "Paper title", in Proc. 13th Int. Particle Accelerator Conf. (IPAC'23), Venice, Italy, May 2023, pp. nnn-nnn. doi:10.18429/JACoW-IPAC2023-XXXXXX
Where XXXXXX denotes the paper ID, e.g. MOPWA999.

Naming of files

Only files named according to the paper's programme code can be uploaded. Example for paper code MOPA999, the paper contains two figures, the file names should be:

- MOPA999.tex (or .docx, .odt, etc) corresponding to the source file
- MOPA999.pdf
- MOPA999_f1.eps (or .png, .tif, .jpg, ...) corresponding to figure 1
- MOPA999_f2.eps (or .png, .tif, .jpg, ...) corresponding to figure 2

When the files are ready for submission, please refer to the instructions about how to submit files to Indico.

Note for presenters from a Russian or Belarussian institute

Individuals without clear nationality can check if they are eligible for participation with IUPAP affiliation at https://iupap.org/wp-content/uploads/2022/07/use_iupap_affiliation_at_conferences.pdf. Please note that in this case the IUPAP affiliation must appear both in the JACoW profile of the author and in the authors list written in the submitted paper.

Support

Please contact the IPAC'26 scientific secretariat if you have questions about managing your papers.

Paper submission

Click here to directly access your contributions and upload your paper.

Submission is open.

The deadline for the submission of paper contributions to the proceedings is:
Wednesday, May 13th, 2026 at 23:59 CEST (UTC+2)

Before submitting

Be sure that all the **paper preparation guidelines** have been followed while writing your paper.

Once the paper is ready for upload, use the **JACoW Cat Scan Editor** tool to validate that the paper source file meets the paper preparation guidelines.

Before submitting your files, access the "**My contributions**" area of the **IPAC'26 Indico system** and:

- Ensure that the **contribution title in Indico is identical to the one in your paper**. If not, edit your contribution and update the title with the one in your paper. **Note:** while the title in the paper must be in all uppercase letters, in your Indico contribution it must be in **Sentence case**;
- **Authors list on the paper is identical to the one in your Indico contribution.** If this is not the case, edit your contribution and update the list of authors and co-authors. Please be sure that only one **speaker** is selected and that **it corresponds to the actual presenter** at the conference. This data will be used for the production of the table of contents and author index of the proceedings. Failure to enter all co-authors means they will be omitted from the author index.

Notes for papers undergoing the Light Peer Review

Authors wanting to publish their contributions as a Light Peer Reviewed paper must first upload their files by **Monday, April 1st, 2026 at 23:59 CEST (UTC+2)**.
Please follow the **instructions about Light Peer Review on the dedicated page.**

Submission of a paper

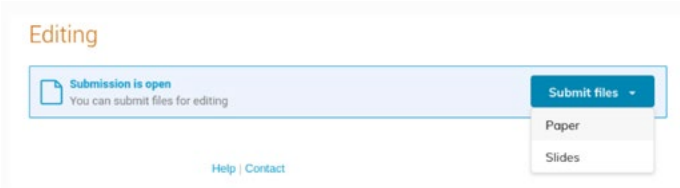
Most authors can generate PDF files, however, the standard is far from uniform and often they are not acceptable for the JACoW proceedings. As such, we DO NOT allow authors to submit only PDF files. Contributions without a source file (.tex, .docx or .odt) are incomplete and not flagged as available for the editorial team.
Once the contribution has been prepared using the **JACoW template** and according to the IPAC'26 **Paper Preparation Guidelines,** the author should submit **all files used to produce the contribution** as follows:

- **Source file** which is a properly formatted MS Word, LaTeX or OpenDocument
- **PDF file** made from the source file. Make sure the fonts are embedded in the PDF file.
- All **figure files** used in the paper in its native format (.jpg, .gif, .tif, .png, .eps, .pdf etc.). Please check that the image quality is not lower than what used in the source file, especially for color images, and text in the image is readable.

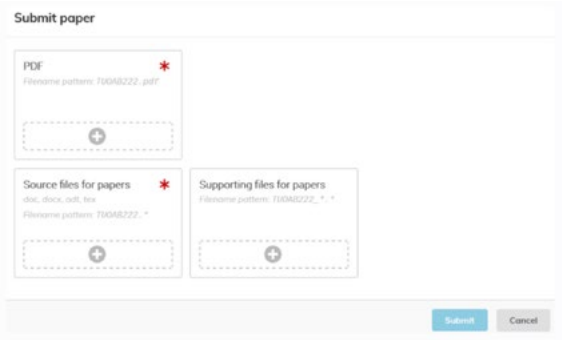
Only files named according to the paper's programme code can be uploaded. Example for paper code MOPA999, the paper contains two figures. Please refer to Naming files above.

File upload via Indico

1. Once all files are ready for submission, access the "**My contributions**" area of the **IPAC'26 Indico system** to upload your files;
1. After login, be sure to use the lefthand menu to access "**My Conference > My Contributions**";
2. Open the contribution you want to upload files for and scroll all the way down to the bottom;
3. Click on the "**Submit files**" button and choose your file type (see figure down below):
    1. Contribution of type **Poster**: only submit files for **Paper**. Ignore the "Slides" type
    2. Contribution of type **Oral:** submit files for both **Paper** and **Slides** (read **this page for instructions on how to prepare your slides**)



After selecting the right button, a window like the one below will appear. Now you can either drag and drop files onto the file boxes or click on the "plus" sign and browse your computer to select the right files



Be sure that all filenames respect the syntax described above, otherwise the "Submit" button won't activate.

The papers will be processed by the editorial team starting during the week before the conference. Authors will receive an e-mail about the processing status. Alternatively, authors should check the status board (**green**=accepted, **yellow**=request of proof-reading, **red**=problem).

Additional information on **how to manage paper submissions** in Indico can be found in the **official IPAC documentation**.

Support

Please contact the **IPAC'26 scientific secretariat** if you have questions about managing your papers.

JACoW templates

Please be sure to always download the latest version of the JACoW template before starting to write a paper, even if you are an experienced author and/or have submitted a paper in a previous JACoW conference.

Customised template files are available at

https://jict.ipac26.org/IPAC26/custom_template.php

Do NOT reuse the source file from a previous paper to avoid use of possibly old template parts.

Ensure that the template you download corresponds to the version of software you are using. Always use the styles contained in the templates. These styles will automatically ensure correct typesetting and layout.

More information can be found in **Word** and **LaTeX** .

Light peer review proceeding

The IPAC'26 Light Peer Review process will offer an intermediate level of publication between a non-refereed IPAC paper published in the JACoW conference proceedings and a refereed journal like PRAB.

Successful peer reviewed papers will be published as part of a conference journal.

Submissions is open. The deadline for the submission of paper contributions to the Light Peer Review was: **Wednesday, April 1st, 2026 at 23:59 CEST (UTC+2)**

We see the introduction of light peer review as an opportunity to publish papers that do not fulfil all the acceptance criteria of journals by virtue of their limited content. Examples of papers that may survive light peer review, but possibly not the rigour of PRAB, could include review papers, technical advancements without novel schemes, incremental design or performance improvements, and similar topics.

The papers submitted to the Peer Reviewed IPAC'26 proceedings will be reviewed by referees selected by the Scientific Publication Board (SPB) among participants to the conference. All papers are reviewed by two referees. In the event of disagreement between referees, the SPB shall resolve the case.

Due to limitations on time and number of referees, it cannot be guaranteed that all papers submitted will be reviewed.

All scientific participants to IPAC'26 may be invited to review papers as part of the Light Peer Review. When contacted, you will have an option to decline reviewing a paper if you are unavailable.

The IPAC'26 Light Peer Review is coordinated by Gianluca Geloni (EuXFEL)



Industrial exhibition

- Exhibition area 82
- Exhibition opening times 82
- Exhibitors list 82
- Exhibition Floorplans 84

Industrial exhibition

Exhibition area

The IPAC'26 Exhbition will be hosted in the main hall in CID of Deauville with direct access to the conference rooms, catering areas and poster sessions. High visibility will be granted to all exhibitors.
Day passes to the exhibitor show can be purchased on link :
https://indico.jacow.org/event/95/
It gives access to the exhibition from 9:30 a.m. to 4:00 p.m.
Prize 180€ per person and day.

Exhibition opening times

Set up	Saturday, May 16	2:00 p.m. – 6:00 p.m.
	Sunday, May 17	9:00 a.m. – 12:30 p.m.
Exhibition	Monday, May 18 to Thursday, May 21	9:00 a.m. – 6:00 PM
Dismantling	Thursday, May 21	from 6:00 p.m. – 11:59 p.m.

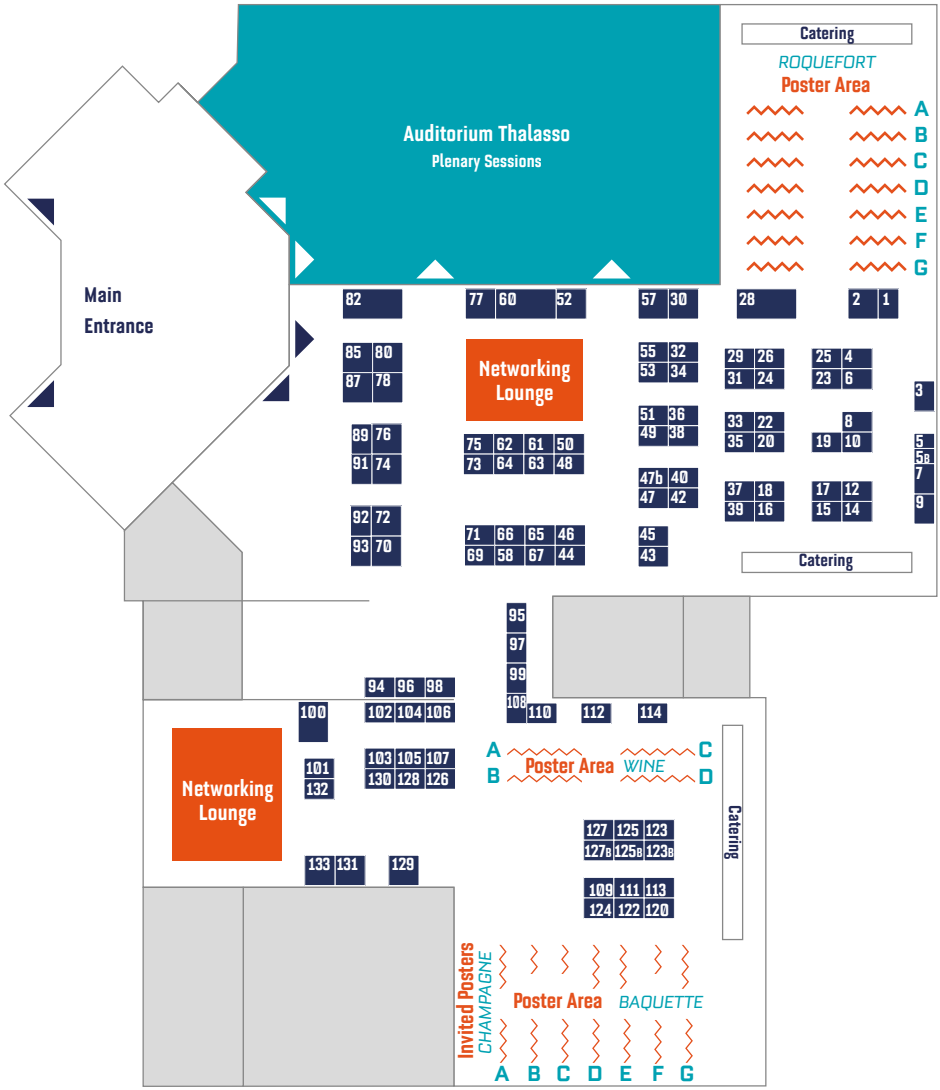
Exhibitors list

AFT microwave GmbH / 69
AK Steel International / 1
Alca Technology
Aldena Telecomunicazioni SRL / 66
Allectra / 68
American Physical Society / 125B
AURION ANLAGENTECHNIK GMBH / 62
AVELION / 3
Axon' Cable / 73
Bergoz Instrumentation / 48
Best Particle Therapy / Best Medical International / 85
BigScience.NL / 18
BUCKLEY SYSTEMS LTD / 42
CAEN ELS srl / 93
Canon Electron Tubes & Devices Co., Ltd / 25
CAYLAR / 72
CECOM / 16
CERN Accelerator School-CAS / TBC
CERN Courier / 10
Chengdu Wattsine Electronic / 104
CIVIDEC Instrumentation GmbH / 94
COMMITIA Systems / 97
COM-TECH Italia SpA / 98
Cosylab d.d. / 60
Cryolectra GmbH / 74
DANFYSIK A/S / 51
DB SCIENCE / 39
Dimtel, Inc. / 75
Diversified Technologies, Inc / 64
D-PACE, Inc / 43
Elettra Sincrotone Trieste / 26
Emma Burgot / 85
ESI/JUAS / 124

Facility for Antiproton and Ion research in Europe GmbH (FAIR GmbH) / 4
FMB Feinwerk- und Messtechnik GmbH /
GLVAC Industrial Technology Research Institute of High Power Devices Co.,Ltd / 32
GRAUX / 31
Heinzinger electronic GmbH / 34
HVP High Voltage Products GmbH / 76
ICEX ESPAÑA EXPORTACIÓN E / TBC
Instrumentation Technologies d.o.o / 77
IPAC'27 / 111
IPAC'28 / 122
IPAC'29 / 120
ITEST / 105
JEMA FRANCE / 57
KAFAT / 100
Kashiyama Europe GmbH / 29
Kiswire Advanced Technology Co., Ltd. / 8
Knowles / 107
Kyma S.p.A. / 53
KYOCERA / 99
Luvata Pori Oy / 95
Metrolab Technology SA / 49
Microwave Techniques LLC / 2
Mitsubishi Heavy Industries / 102
Norcada / 123B
NTG – Neue Technologien GmbH & Co. KG / 55
OCEM AMPEGON – Cocchi Technologies / 47
OMEGA PHYSICS / 9B
Pantechnik / 80
PARTZSCH / 92
PFEIFFER VACUUM / 108
PHYSICAL Instruments / 96
Physics World / 109
PINK GmbH Vakuumtechnik / 44
Polyteknik AS / 106
PROACTIVE REASEARCH AND DEVELOPMENT S.L.U / 9A
PRO-VIDE / 91
PURON Metals / 40
RADIASOFT / 110
RFHIC / 67
Ridgway Machines / 36
RI Research Instruments GmbH / 38
R&K Company Limited / TBC
Rohde & Schwartz France / 70
RTC Engineering / 130
SAES High Vacuum / 28
ScandiNova Microwave Amps IECO Scanditronix / 82
SCIENCEWORKS CO., LTD / 65
SEF Technologies / 24
Shanghai No.1 machine Tool Works Cos / 127B
SIGMAPHI / 78
SmarAct Motion / 45
Société Française de Physique – Division Accélérateurs / 5
SOLCERA ADVANCED MATERIALS / 7
Solid Sealing Technology / 23
SPINNER GmbH / 52
Stangenes Industries, Inc / 61
Suzhou Bama Superconductor Technology / 128
Swiss ILO Office / SwissTech / 123, 127, 125
SYES / 46
Symétrie / 37
TECHNIX / 50
Teknologisk Institut / 126
Tesla Group / 47B
THALES / 131

The Extreme Light Infrastructure ERIC / 87
UHV Design / 63
University of Liverpool / 30
Vacree Technologies Co.,Ltd / 132
Varex Imaging / 89
Western Superconducting Technologies Co., Ltd / 103
Wuxi creative technologies co., ltd. / 113
ZANON Research & Innovation S.R.L. / 19

Exhibition Floorplan





IPAC'26 Supporters

- Platinium Sponsors. 86
- Gold Sponsors 87
- Silver Sponsors 88
- Bronze Sponsors 89

Exhibitors 90

IPAC'26 Supporters

Platinium Sponsors

Sigmaphi Accelerator Technologies

CERN Courier

ICEX | España Exportación e Inversiones

Gold Sponsors



Extreme Light Infrastructure ERIC



Nodica Group



RFHIC



SAES Getters SpA



Swiss ILO Office

Silver Sponsors

Bergoz Instrumentation

Caylar

Cosylab d.d

Cryoelectra GmbH

Dimtel, Inc

GSI - FAIR

Instrumentation Technologies

JEMA France

Metrolab Technology SA

Microwave Techniques

Pantechnik

Rohde & Schwarz France

SPINNER GmbH

Tesla Group

QUASAR Group - University of Liverpool

Western Superconducting Technologies Co., Ltd

Bronze Sponsors

Danfysik

RTC Engineering

HVP High Voltage Products GmbH

Exhibitors

AFT Microwave GmbH

AK Steel International

Alca Technology

Aldena Telecomunicazioni

Allectra

American Physical Society

AURION ANLAGENTECHNIK GMBH

AVELION

Axon' Cable

Bergoz Instrumentation

Best Particle Therapy

Big Science

Buckley Systems LTD

CAEN Group

Canon Electron Tubes & Devices Co., Ltd.

CAYLAR

CECOM

The CERN Accelerator School

CERN Courier

Chengdu Wattsine Electronic



CIVIDEC Instrumentation



COMMTIA Systems



COM-TECH



Cosylab



Cryoelectra GmbH



Danfysik



D. B. SCIENCE



Dimtel, Inc



Diversified Technologies, Inc.



D-Pace

Elettra Sincrotrone Trieste

Emma Burgot

ESI Archamps

GSI - FAIR

FMB

GLVAC

GRAUX

Heinzinger electronic GmbH

HVP High Voltage Products GmbH

ICEX | España Exportación e Inversiones

Instrumentation Technologies

IPAC'27

IPAC'28

IPAC'29

ITEST

JEMA France

KAFAT

Kashiyama Europe GmbH

Kiswire Advanced Technology Co

Knowles

Kyma Undulators

KYOCERA France

Luvata Pori Oy

Metrolab Technology SA

Microwave Techniques

Mitsubishi Heavy Industries

Norcada

NTG - Neue Technologien GmbH

OCEM AMPEGON
Cocchi Technologies

OMEGA PHYSICS

Pantechnik

PARTZCH

Pfeiffer Vacuum

PHYSICAL Instruments

Physics World

PINK GmbH Vakuumtechnik

Polyteknik AS

Proactive Research and Development.

Pro-vide

PURON Metals

R&K Company Limited

RadiaSoft

RFHIC

Start - RI Research Instruments GmbH

Ridgway Machines

Rohde & Schwarz France

RTC Engineering

SAES High Vacuum Getters

Scandinova Microwave Amps IECO Group

SCIENCEWORKS CO, LTD

SEF Technologies

Shanghai No.1 machine Tool Works Co

Ridgway Machines | SIGMAPHI

SmarAct Motion Group

Société Française de Physique - SFP - Division Accélérateurs

Solcera Advanced Materials

Solid Sealing Technology

SPINNER GmbH

Stangenes Industries Inc

Suzhou Bama Superconductor Technology

Swiss ILO Office

SYES.eu

Symétrie

Technix High Voltage

Teknologist Institut

Tesla Group

THALES Group

Extreme Light Infrastructure ERIC

UHV Design

QUASAR Group - University of Liverpool

China Vacree Technologies Co., Ltd

Varex Imaging

Western Superconducting Technologies Co., Ltd

wuxi creative technologies co., ltd.

ZANON RESEARCH & INNOVATION S.R.L.



Scientific contributions

Summary 103

Sunday, May 16, 2026 107

Monday, May 18, 2026 133

Tuesday, May 19, 2026 182

Wednesday, May 20, 2026 229

Thursday, May 21, 2026 276

Friday, May 22, 2026 318

Only one author is identified in this document due to space constraints. The full and final version can be found in the conference application during the conference and in the proceedings afterwards.

Intro

The Scientific Programme is the result of a collaboration of the Scientific Programme Committee with the Organizing Committee and the Scientific Advisory Board.

The main interest is to guarantee the most selected and appropriate scientific contribution to the conference.

It has been ensured that the accelerator community is effectively represented in terms of its diversity and inclusion, there are contributions from 22 countries, comprising 60 organisations, with 25% from female presenters.

The Scientific Programme foresees Invited Oral presentations, Contributed Oral presentations Poster presentations (available every afternoon from Sunday to Thursday).

All abstracts are available in the APP.

www.ipac26.org

ANDROID APP ON Google Play
Available on the App Store

Summary

Sunday, May 16, 2026 107

Student poster session 108

SUP Sunday Poster Session 108

Monday, May 18, 2026 133

Oral programme 134

MOI4M MC4 - Hadron Accelerators (Invited) 134

MOI1M MC1 - Colliders and other Particle Physics Accelerators (Invited) 134

MOI2M MC2 - Photon Sources and Electron Accelerators (Invited) 134

MOI4M MC0 - Opening Session (Invited) 134

MOI4M MC4 - Hadron Accelerators (Invited) 134

MOI1T MC1 - Colliders and other Particle Physics Accelerators (Invited) 135

MOO1T MC1 - Colliders and other Particle Physics Accelerators (Contributed) . . 135

MOI7M MC7 - Accelerator Technology and Sustainability (Invited) 135

MOO7M MC7 - Accelerator Technology and Sustainability (Contributed) 136

Poster Session 137

MOV Monday Poster Session 137

MOP Monday Poster Session 138

Tuesday, May 19, 2026 182

Oral programme 183

TUI2M MC2 - Photon Sources and Electron Accelerators (Invited) 183

TUO2M MC2 - Photon Sources and Electron Accelerators (Contributed). 183

TUI8T MC8 - Applications of Accelerators, Technology Transfer and Industrial Relations and Outreach (Invited) 183

TUO8T MC8 - Applications of Accelerators, Technology Transfer and Industrial Relations and Outreach (Contributed) 184

TUI4M MC4 - Applications of Accelerators, Technology Transfer and Industrial Relations and Outreach (Invited) 184

TUI4M MC4 - Hadron Accelerators (Invited). 184

TUI3T MC3 - Novel Particle Sources and Acceleration Techniques (Invited) . . . 185

TUI6T MC6 - Beam Instrumentation, Controls, Feedback & Operational Aspects (Invited) 185

TUI2M MC2 - Photon Sources and Electron Accelerators (Invited) 185

TUO2M MC2 - Photon Sources and Electron Accelerators (Contributed). 186

TUI7T MC7 - Accelerator Technology and Sustainability (Invited) 186

TUO7T MC7 - Accelerator Technology and Sustainability (Contributed). 186

Poster Session 187

TUV Tuesday Poster Session 187

TUP Tuesday Poster Session 188

Wednesday, May 20, 2026 229

Oral programme 230

WEI1T MC1 - Colliders and other Particle Physics Accelerators (Invited). 230

WEO1T MC1 - Colliders and other Particle Physics Accelerators (Contributed) . . 230

WEI8M MC8 - Applications of Accelerators, Technology Transfer and Industrial Relations and Outreach (Invited) 230

WEO4M MC4 - Hadron Accelerators (Contributed) 231

WEI5M MC5 - Beam Dynamics and Electromagnetic Fields (Invited) 231

WEO5M MC5 - Beam Dynamics and Electromagnetic Fields (Contributed) 231

WEI3T MC3 - Novel Particle Sources and Acceleration Techniques (Invited) . . . 232

WEO3T MC3 - Novel Particle Sources and Acceleration Techniques (Contributed) 232

WEI5M MC5 - Beam Dynamics and Electromagnetic Fields (Invited) 232

WEO5M MC5 - Beam Dynamics and Electromagnetic Fields (Contributed) 233

WEO6M MC6 - Beam Instrumentation, Controls, Feedback & Operational Aspects (Contributed) 233

Poster Session 234

WEV Wednesday Poster Session. 234

WEP Wednesday Poster Session. 235

Thursday, May 21, 2026 276

Oral programme 277

THI2M MC2 - Photon Sources and Electron Accelerators (Invited) 277

THO2M MC2 - Photon Sources and Electron Accelerators (Contributed). 277

THI3T MC3 - Novel Particle Sources and Acceleration Techniques (Invited) . . . 277

THO3T MC3 - Novel Particle Sources and Acceleration Techniques (Contributed) 278

THI4M MC4 - Hadron Accelerators (Invited). 278

THO4M MC4 - Hadron Accelerators (Contributed) 278

THI6T MC6 - Beam Instrumentation, Controls, Feedback & Operational Aspects (Invited) 279

THO6T MC6 - Beam Instrumentation, Controls, Feedback & Operational Aspects (Contributed) 279

Poster Session 280

THV Thursday Poster Session 280

THP Thursday Poster Session 281

Friday, May 22, 2026. 318

Oral programme 319

FRI6M MC6 - Beam Instrumentation, Controls, Feedback & Operational Aspects (Invited) 319

FRO6M MC6 - Beam Instrumentation, Controls, Feedback & Operational Aspects (Contributed) 319

FRI5T MC5 - Beam Dynamics and Electromagnetic Fields (Invited) 319

FRO5T MC5 - Beam Dynamics and Electromagnetic Fields (Contributed) 320

FRI3M MC3 - Novel Particle Sources and Acceleration Techniques (Invited) . . . 320

FRI6M MC6 - Beam Instrumentation, Controls, Feedback & Operational Aspects (Invited) 320

FRI1M MC1 - Colliders and other Particle Physics Accelerators (Invited). 320



Sunday, May 16, 2026

Student poster session **108**

Only one author is identified in this document due to space constraints. The full and final version can be found in the conference application during the conference and in the proceedings afterwards.

Student poster session

SUP

Sunday Poster Session
(Poster Presentation)

May 17, 2026 **2:00 p.m. / 6:00 p.m.**

- SUP001 Mapping Global Collaboration in Accelerator Research
Annabella Zamora (University of Lausanne)

- SUP002 Performance analysis of the Mach-Zehnder interferometer using synthetic interferograms
Fatimah Alharthi (University of Manchester)

MC1 - SUP1001 Emittance growth due to Power Converter Ripple and Noise at 50 Hz harmonics during LHC collisions
Anna Radoslavova (European Organization for Nuclear Research)

MC1 - SUP1002 Use of DBSCAN for full-automatic-data-based anomaly detection method on Turn-by-Turn Beam Position Monitors (TbTBPMs) in SuperKEKB
Quentin Bruant (Commissariat à l'énergie Atomique et aux Énergies Alternatives)

MC1 - SUP1003 Inverse Modeling of Spatially Coherent Random Vibrations for Assessing Impact on Particle Beam Dynamics in Circular Accelerators
Purinut Lersnimitthum (Université Paris-Saclay)

MC1 - SUP1004 Monochromatization Optics Update and Beam-Beam Performance Studies for the FCC-ee GHC v23 Lattice and First Attempt at Implementation in FCC-ee LCC v105 Lattice
Anna Korsun (Université Paris-Saclay, CNRS/IN2P3, IJCLab)

MC1 - SUP1005 Beam Dynamics Studies in the SuperKEKB Linear Accelerator and Beam Transport System
Andrea Aguirre Polo (Deutsches Elektronen-Synchrotron DESY)

MC1 - SUP1006 Effect of FCC-ee collimator impedance on beam stability: design and optimization strategy
Dora Gibellieri (European Organization for Nuclear Research)

MC1 - SUP1007 SuperKEKB BT Tracking and DA Comparison as an approximation for injection efficiency
Nikita van Gils (European Organization for Nuclear Research)

MC1 - SUP1009 Impact of Rapid Acceleration on Beam Dynamics in the Rapid-Cycling Synchrotrons of a Muon Collider
Lisa Soubirou (Université Paris-Saclay)

MC1 - SUP1010 LEnuSTORM: A Low-Energy Muon Storage Ring for Neutrino Cross-Section Measurements
Ting Wing CHOI (Uppsala University)

MC1 - SUP1011 Measured and simulated channeled-halo distributions for the TWOCRYST experiment at the LHC
Chiara Maccani (European Organization for Nuclear Research)

MC1 - SUP1012 Injection Background Studies at FCC-ee
Giulia Nigrelli (European Organization for Nuclear Research)

MC1 - SUP1013 Near Resonance Polarization Modulation (NRPM), a Novel Method for High Precision Beam Energy Measurement in Storage Rings
Yi Wu (École Polytechnique Fédérale de Lausanne)

MC1 - SUP1014 Crystal Channelling Optimisation in the LHC Using Reinforcement Learning
Andrea Vella (University of Malta)

MC1 - SUP1301 Nonlinear Dynamics study from Coupled Beam-Beam and Space-Charge Effects in a Realistic Collider Lattice
Helena Alamprese (Facility for Rare Isotope Beams)

MC1 - SUP1302 Investigations of Non-Linear Optics Control Knobs for the FCC-ee
Patrick Hunchak (University of Saskatchewan)

MC1 - SUP1303 Damping Higher Order Modes for the Cool Copper Collider
Sophia Morton (SLAC National Accelerator Laboratory)

MC1 - SUP1304 Dispersion Suppression for Wedge-Based Final Cooling at a 10 TeV Muon Collider
Inci Karaaslan (University of Chicago)

MC1 - SUP1305 FLUKA-Based Optimization of Pion Production for a Muon Collider Demonstrator
Ruaa Alharthy (University of Wisconsin-Madison)

MC1 - SUP1306 Studies on Optimization of a Tilted-Solenoid Muon Ionization Cooling Channel in G4beamline
Cheng-Hsu Nee (University of Wisconsin-Madison)

MC1 - SUP1307 Design and optimization of a horn focusing system for efficient pion capture in a Muon Collider Demonstrator
Prateek Rao (University of Wisconsin-Madison)

MC1 - SUP1308 Symplectic Spin-Orbit Tracking Through the EIC's HSR with Helical-Dipole Siberian Snakes
Joseph Devlin (Cornell University (CLASSE))

MC1 - SUP1601 Electric Field Computation for Electron Cloud Simulations: Integration of Fast Multipole Method and Boundary Element Method in pyECLOUD
Siyuan Feng (University of Chinese Academy of Sciences)

MC1 - SUP1602 Impact of Wiggler Field Profiles on Key Beam Parameters in the STCF
Hangzhou Li (University of Science and Technology of China)

MC1 - SUP1603 Development of STCF S-Band High-Gradient Traveling Wave Accelerating Structures
ShaoHang Ma (University of Science and Technology of China)

MC1 - SUP1604 Development of STCF High-Efficiency Positron Capture Traveling Wave Accelerating Structures
ShaoHang Ma (University of Science and Technology of China)

MC1 - SUP1605 Low emittance beam transport system of the position damping ring for the Super Tau Charm Facility
Xu Yang (University of Science and Technology of China)

MC2 - SUP2001 Evaluation of the performances of a Non-Linear Kicker injection scheme at the European Synchrotron Radiation Facility
Antonin Sauret (European Synchrotron Radiation Facility)

MC2 - SUP2002 Impact of Injection Error on EUV FEL Performance in an APL-based Beamline
Mihail Miceski (Extreme Light Infrastructure Beamlines)

MC2 - SUP2003 Pulse Dispersion Measurement in Pulsed wire setup
Saif Khan (Synchrotron soleil)

MC2 - SUP2004 Study of Beam Dynamics in Magnetic Electron Buncher for Novosibirsk Free Electron Laser
Shamil Lachynov (Budker Institute of Nuclear Physics)

MC2 - SUP2005 Some statistical properties of attosecond SASE FELs
Johan Ribbing (Uppsala University)

MC2 - SUP2006 Demonstration of mode-locked frequency comb for an x-ray free-electron laser
Wenxiang Hu (Paul Scherrer Institute)

MC2 - SUP2007 Experimental investigation of injector halo for PERLE using scaled measurements at cERL
Connor Monaghan (University of Liverpool)

MC2 - SUP2008 Crystal Radiators for Accelerators
Pierluigi Fedeli (University of Ferrara)

MC2 - SUP2009 Characterisation of linear and non-linear optics of the SOLARIS Storage Ring
Wiktoria Wiatrowska (SOLARIS National Synchrotron Radiation Centre)

MC2 - SUP2010 Superradiant Terahertz Radiation Generation at EuXFEL: integration, commissioning, and initial measurements
Karel Peetermans (Deutsches Elektronen-Synchrotron DESY)

MC2 - SUP2011 Numerical Study of an X-ray Compton Source Driven by Laser Plasma Acceleration at LAPLACE-HC Facility
David El Khoury (Institut Polytechnique de Paris)

MC2 - SUP2012 The Compton Backscattering Source COBRA at the S-DALINAC
Lisa Beate Dingeldein (Technical University of Darmstadt)

MC2 - SUP2013 Status of the Automated Activation of GaAs Photocathodes at Photo-CATCH*
Markus Engart (Technical University of Darmstadt)

MC2 - SUP2014 Photoemission study of nanostructured plasmonic photocathodes
Margarita Bulgacheva (Technical University of Darmstadt)

MC2 - SUP2015 The FCC-ee electron source, baseline, and alternative
Zdenek Vostrel (European Organization for Nuclear Research)

MC2 - SUP2016 Electron beam formation in a thermionic electron gun
Serhii Kovalov (National Science Center Kharkiv Institute of Physics and Technology)

MC2 - SUP2301 Machine Learning based preventive maintenance and autonomous power control for RF cavities in a free-electron laser
Tushnim Yuvaraj (Columbia University)

MC2 - SUP2302 Towards Generation of Orbital Angular Momentum THz Radiation via Dielectric Wakefield Acceleration
Jack Phillips (Particle Beam Physics Lab (PBPL))

MC2 - SUP2303 Monochromation of pulsed electron beams with terahertz radiation at a planar mirror
Cecilia Abbamonte (Cornell University (CLASSE))

MC2 - SUP2304 Experimental Reconstruction of Source 4D Phase Space Without Prior Knowledge of Transfer Matrix
Charles Zhang (Cornell University (CLASSE))

MC2 - SUP2601 Enhanced coherent terahertz generation in storage rings with an active demodulation section
Xiazhen Xu (University of Science and Technology of China)

MC2 - SUP2602 A Modular Optimization Framework for 4th Generation Light Source Lattice Design: Synergizing Physics Priors and Statistical Learning
LINGLONG MAO (Shanghai Institute of Applied Physics, Chinese Academy of Sciences)

MC2 - SUP2603 Multi-Objective Bayesian Optimization of Multi-Stage OK-SASE for Efficient High-Energy XFEL Operation
Xiaodan Liu (Hunan University)

MC2 - SUP2604 Modeling of CSR and its cancellation in DBA/Chicane type compressors
Fancong Zeng (Chinese Academy of Sciences)

MC2 - SUP2605 Theoretical Analysis of a Novel Seeded Free-Electron Laser Scheme with Echo-Enabled Harmonic Generation Layout
Zihan Wang (University of Science and Technology of China)

MC2 - SUP2606 Simulation Study of the Full Waveguide Design for HiFEL
Guanzheng Wu (University of Science and Technology of China)

MC2 - SUP2607 Understanding THz superradiant free electron lasers
Zhuoyuan Liu (Tsinghua University)

MC2 - SUP2608 X-ray frequency combs generation using echoenabled harmonic generation free electron laser
Lanpeng Ni (Shanghai Institute of Applied Physics)

MC2 - SUP2609 Zeptosecond Î³-Ray Pulses Generation via FEL-Driven Microbunching and Laser-Compton Scattering
jinke Xiong (Shanghai Institute of Applied Physics, Chinese Academy of Sciences)

MC2 - SUP2610 Off-axis hollow-channel plasma tailoring for generating two-color x-ray free-electron lasers
Haiyang Li (Shanghai Institute of Applied Physics, Chinese Academy of Sciences)

MC2 - SUP2611 Superblock-based SCILAB–Xcos simulation of electron radiation intensity for multiple undulator schemes
Mahazbeen Sayed (Rajiv Gandi Proudyogiki Vishvidhyala)

MC2 - SUP2612 Optimization of a Storage Ring Pre-Injector for High Transmission Efficiency and Low Energy Spread
Fengyi Zhang (University of Science and Technology of China)

MC2 - SUP2613 Minimizing Slice Energy Spread Photocathode RF Gun for Ultrashort Electron Bunch Generation
Fengyi Zhang (University of Science and Technology of China)

MC2 - SUP2614 Design of a 10-MHz High-Energy-Resolution Light Source
JunHao Liu (Shanghai Institute of Applied Physics)

MC2 - SUP2615 Intensity distribution of high-order harmonics radiation in the superradiant THz FEL
Tong Li (Tsinghua University)

MC2 - SUP2616 Burst-Mode Operation of Fabry–Pérot Cavities for Enhancing Effective Intracavity Power
å›½åEf å¼ (Tsinghua University)

MC2 - SUP2617 A Novel Method for Measuring the Energy Spectrum of an Inverse Compton Scattering Source Based on Nuclear Resonance Fluorescence
Jin Lin (Tsinghua University)

MC2 - SUP2618 RF Electron Guns with Controlled Longitudinal Dispersion for Attosecond UED
YUXIN CHENG (Shanghai Institute of Applied Physics, Chinese Academy of Sciences)

MC2 - SUP2619 Commissioning of the Injector System for the X-Band Electron Linear Accelerator in Melbourne
Joel Valerian (The University of Melbourne)

MC2 - SUP2620 Simulation study of HEPS booster operation at lower injection energy
Aoyu Wang (Institute of High Energy Physics, Chinese Academy of Sciences)

MC2 - SUP2621 Study of Wakefield effect in the burst mode injector designed for SSMB light source
Zhengkai Wang (Tsinghua University)

MC2 - SUP2622 Study on polarization control of planar undulator system based on magnetic field modulation
NanRui Yang (University of Science and Technology of China)

MC2 - SUP2623 The essence factor to deteriorate the circular polarization radiation performance in APPLE-KNOT undulator
Binghao Zhang (University of Science and Technology of China)

MC2 - SUP2624 Optimization of the feedback system of high-power optical enhancement cavity
yutong huang (Tsinghua University)

MC2 - SUP2625 GPU-Accelerated Simulation Framework for Partially Coherent EUV Light Transport in Tsinghua SSMB Beamline Optics
Haowei Hu (Tsinghua University)

MC2 - SUP2626 Real-Time X-ray Beamline Surrogate Modeling via a Physics-Informed Log-Manifold Learning Framework
Xuanying Song (Tsinghua University)

MC3 - SUP3001 First direct observation of a wakefield generated with structured light
Aaron Liberman (Weizmann Institute of Science)

MC3 - SUP3002 Research status on the ECRIPAC accelerator concept
Andrea Cernuschi (Laboratoire de Physique Subatomique et de Cosmologie)

MC3 - SUP3003 Beamline Optimization for Laser-Accelerated Ions
Daniel Dewitt (Technical University of Darmstadt)

MC3 - SUP3004 SMART - a SMall pArticle accelerRaTor on chip
Alan Marcia (Fondazione Bruno Kessler)

MC3 - SUP3005 Acceleration gradients in dielectric laser accelerators with single and double triangular-shaped gratings
Oleh Svystunov (National Science Centre Kharkiv University)

MC3 - SUP3006 Hybrid optimisation of THz-driven tapered waveguides for synchronous acceleration of weakly relativistic high-quality electron bunches
Filip Peczek (University of Manchester)

MC3 - SUP3007 Simulation of Dielectric Wakefield Acceleration in Planar Structures at SwissFEL
Evan Ericson (Paul Scherrer Institute)

MC3 - SUP3008 Solving the External Injection Problem in Laser-Plasma Accelerators Using Terahertz Frequency Control
Aras Amini (University of Manchester)

MC3 - SUP3009 Laser-plasma accelerator based EUV-FEL plasma source development at ELI-ERIC
Alex Whitehead (Extreme Light Infrastructure Beamlines)

MC3 - SUP3010 Transport beam lines for laser-plama accelerators
Laury Batista (Commissariat à l'énergie Atomique et aux énergies Alternatives)

MC3 - SUP3011 High quality electron beams from laser plasma accelerator in gas cell: comparison of experiment and simulation
Lodewyk Steyn (Laboratoire de Physique des Gaz et des Plasmas)

MC3 - SUP3012 Measurement of the saturation length of the self-modulation instability in a plasma wakefield accelerator
Arthur Clairembaud (Max Planck Institute for Physics)

MC3 - SUP3013 Characterization of Self-Modulation in a Plasma Wakefield Accelerator
Jan Mezger (Max Planck Institute for Physics)

MC3 - SUP3014 Wakefield dephasing measurement of a self-modulating proton bunch.
Helena Jaworska (Heinrich-Heine-Universität Düsseldorf)

MC3 - SUP3015 Laser-Plasma Electron Injector for the cSTART Storage Ring
Alexander Saw (Karlsruhe Institute of Technology)

MC3 - SUP3016 Gaussian Process Regression and Bayesian Optimization for a 40-90 MeV Laser-Plasma Injector for the cSTART Storage Ring
David Squires (Karlsruhe Institute of Technology)

MC3 - SUP3017 Electron Acceleration by a Wakefield Excited in Plasma by a Profiled Train of Bunches Under Conditions of Their Greatest Stability and a Plateau on the Wakefield
Ilia Demydenko (V. N. Karazin Kharkiv National University)

MC3 - SUP3018 Challenges of Low Energy External Injection into Laser-Driven Wakefield Accelerators
Jordan Byrne (University of Manchester)

MC3 - SUP3019 WarpX Simulation of the Plasma Meniscus Effect in a Neutral Beam Injection System
Bao Nguyen (Imperial College London)

MC3 - SUP3020 Multi-Objective Bayesian Optimisation (MOBO) for High-Quality Photoinjector Optimisation
Emily Jayne Brookes (Helmholtz-Zentrum Berlin für Materialien und Energie)

MC3 - SUP3021 Study and test of a triode gun for the flash electron LINAC @ SAPIENZA
Shoaib Akbar (Sapienza University of Rome)

MC3 - SUP3022 Optimized design of a C-band 100 MeV electron LINAC for FLASH radiotherapy
Stefano Farina (Sapienza University of Rome)

MC3 - SUP3023 Laser wakefield acceleration in carbon nanotube bundles
Jiaqi Zhang (University of Manchester)

MC3 - SUP3301 Design of a Short-Pulse Septum Power Splitter for Distributed X-band High-Gradient Acceleration
Salih Colmekci (Northern Illinois University)

MC3 - SUP3302 Quantum Accelerator & Wiggler using Extreme Plasmons Excited in Nanofabricated Materials: E-339 at SLAC
Kalyan Tirumalasetty (University of Colorado Denver)

MC3 - SUP3303 Effect of the Laser Polarization on Electron Acceleration in Carbon Nanotube Targets
Bruno Silveira Nunes (Instituto de Pesquisas Energéticas e Nucleares)

MC3 - SUP3304 Growth and Evaluation of High QE Semiconductor Photocathodes for High-Brightness Electron Sources
Peter Owusu (Arizona State University)

MC3 - SUP3601 Current Status of the High-Repetition-Rate Electron Driven Pulsed Muon Source at the SHINE Facility
Jun Kai NG (Shanghai Jiao Tong University)

MC3 - SUP3602 Study on energy stability of high-charge bunches from laser plasma accelerators for ring injectors
YiQun Shi (Institute of High Energy Physics)

MC3 - SUP3603 Design Improvement of a FEBIAD ion source toward RI beam production at the RAON ISOL system
Je Hwan Han (Institute for Basic Science)

MC3 - SUP3604 Research on cold field emission in the VHF electron gun
YuanYuan Qin (Tsinghua University)

MC3 - SUP3605 Optimization of Magnetic Field Parameters in AMD for Enhanced Positron Yield
xin xu (University of Science and Technology of China)

MC4 - SUP4001 Non-linear resonance feed-down - a new technique for correcting high order errors in the LHC
Sasha Horney (European Organization for Nuclear Research)

MC4 - SUP4002 Compact 3 GHz SCDTL linac design for different charge to mass ratio species acceleration in Advanced Hadron-Therapy systems
Eduardo Martínez López (Instituto de Física Corpuscular)

MC4 - SUP4003 Modelling of counter-rotating multi-turn wakefields in the muon collider RCS chain
Leonard Thiele (University of Rostock)

MC4 - SUP4004 Investigations of a Novel Bunch Compression Technique for Hadron Accelerators
Johan Holmberg (Lund University)

MC4 - SUP4005 Design and Optimization of a Fast Electrostatic Chopper for FLASH Proton Therapy Radiobiology Experiments.
Demetrio Hermenegildo Saucedo Cuberes (Universidad de Sevilla)

MC4 - SUP4006 Studies of Transverse Emittance Growth of LHC-type Beams on the Long Injection Plateau of the CERN SPS
Ingrid Mases (European Organization for Nuclear Research)

MC4 - SUP4008 Simulation based machine protection for the Super-FRS
Jan Wirtz (GSI Helmholtz Centre for Heavy Ion Research)

MC4 - SUP4009 Development of the spin tune model for EDM investigations at storage rings
Anna Piccoli (University of Ferrara)

MC4 - SUP4301 Progress of Variable Wedge for FRIB ARIS
Xing Rao (Facility for Rare Isotope Beams)

MC4 - SUP4601 A Bayesian Optimization Study of the Longitudinal Localized Excitation Slow Extraction for the XiPAF-Upgrading Synchrotron
Chuhao Li (Tsinghua University)

MC4 - SUP4602 Optics Design of a Compact Synchrotron for a Proton-Helium Therapy Facility
Yifan Lan (Shanghai Institute of Applied Physics)

MC4 - SUP4603 Scenario of Beam-based Alignment with New BPM System for Future Beam Commissioning of 1.3-MW Operation at the J-PARC Main Ring
Yoshihiro Saito (The Graduate University for Advanced Studies, SOKENDAI)

MC4 - SUP4604 Design and Characteristics Study of a Compact Ladder RFQ-IH-DTL Coupled Cavity Structure
Guoqing Kong (Xi'an Jiaotong University)

MC4 - SUP4605 Low-Power Test of Bridge Coupler Connected to Tank in Disk-and-Washer Structure for Muon Acceleration
Ayaka Kondo (Nagoya University)

MC4 - SUP4606 Ion Extraction Experimets for the LaPRIS Concept Using a Pulsed Gas Target
Shotaro Matsui (The University of Osaka)

MC5 - SUP5001 Ongoing studies of longitudinal matching for the PERLE accelerator
Janine Issa (Laboratoire de Physique des 2 Infinis Irène Joliot-Curie)

MC5 - SUP5002 Improving Energy Spread of MESA Beam in ERL Operation
Esraa Khidr (Johannes Gutenberg University Mainz)

MC5 - SUP5003 Modelling Linear Coupling for FCC-ee in Xsuite
Vaibhavi Gawas (European Organization for Nuclear Research)

MC5 - SUP5004 Parallel Quadrupole Beam-Based Alignment for FCC-ee
Christian Goffing (European Organization for Nuclear Research)

MC5 - SUP5005 A High Performance Final Focus System for CLIC at 1.5 TeV
Lewis Kennedy (European Organization for Nuclear Research)

MC5 - SUP5006 Beta Function Measurements using Quadrupole Variation in SLS 2.0
Jesus Avila Pulido (Paul Scherrer Institute)

MC5 - SUP5007 Improving Injection at Diamond using Dimensionality Reduction Techniques and Bayesian Optimisation
Shaun Preston (University of Oxford)

MC5 - SUP5008 Halo cleaning and collimator optimization at PERLE
Arnaud CIEPLAK (Laboratoire de Physique des 2 Infinis Irène Joliot-Curie)

MC5 - SUP5009 Impact of a quasi-resonant AC dipole excitation on transverse beam splitting
Oleksandr Naumenko (European Organization for Nuclear Research)

MC5 - SUP5010 Nonlinear Plasma Wakefield Perturbation Using Square Gaussian Beam in Uniform Plasma Distribution
Gangtak Nanpon (Joseph Sarwuan Tarka University Makurdi)

MC5 - SUP5011 Linear and Nonlinear Effects of Fringe Fields on the Single-Particle Dynamics in the Helium Light Ion Compact Synchrotron
Silke Van der Schueren (European Organization for Nuclear Research)

MC5 - SUP5012 Mode Mixing in UK XFEL's Elliptical Cavities
Anthony Gilfellon (Cockcroft Institute)

MC5 - SUP5013 Simulation study for the new collimators of PETRA IV
Pascal Reinhart (Technical University of Darmstadt)

MC5 - SUP5014 Beam Misalignment and Current Loss in the Karaj-C30 Cyclotron: Diagnostics and IBSimu Analysis
Keyvan Tabaei (University of Isfahan)

MC5 - SUP5015 Preliminary Analysis of Transient Beam-Loading Effects in Electron Storage Rings with a 3rd Harmonic Cavity
Keon Hee Kim (Grand Accélérateur National d'Ions Lourds)

MC5 - SUP5016 Coupled-bunch instabilities with a defocusing higher-harmonic RF system
Ruben Heine (Technische Universität Berlin)

MC5 - SUP5017 Characterization of longitudinal electron beam quality at the soft X-ray beamline of SwissFEL
Roberta Provvedi (Paul Scherrer Institute)

MC5 - SUP5018 Real-Time Reconstruction of Longitudinal Phase-Space Distribution in Hadron Beamlines and Synchrotrons
Sergei Sherstiuk (Technical University of Darmstadt)

MC5 - SUP5020 Modeling of Radiation Wakefields using a Scattered Field Formulation
Jonas Christ (Technical University of Darmstadt)

MC5 - SUP5021 Developing a Physics-Informed Gaussian Process Model to Construct an Uncertainty-Quantified Machine Model Using Bayesian Optimization
Victoria Isensee (Technical University of Darmstadt)

MC5 - SUP5301 Modeling and Correction of SIRIUS Storage Ring Nonlinear Optics
Matheus Velloso (Brazilian Synchrotron Light Laboratory)

MC5 - SUP5302 Symplectic integrator for insertion devices tracking at SIRIUS
Gabriel Ascenção (Brazilian Synchrotron Light Laboratory)

MC5 - SUP5303 SciBmad: A differentiable and high performance software library for particle accelerator design, nonlinear analysis, simulation, and machine learning
Matthew Signorelli (Cornell University (CLASSE))

MC5 - SUP5304 Optimal Reconstruction of 3D Magnetic Fields for FACET-II Compton Spectrometer
Jack Phillips (Particle Beam Physics Lab (PBPL))

MC5 - SUP5305 Latent Space Beam Dynamics Surrogate Model
Ningdong Wang (Cornell University)

MC5 - SUP5306 Modeling and Measuring the Effect of Mismatched Beam Transport on Halo Formation in a High-Intensity LINAC
Trent Thompson (Oak Ridge National Laboratory)

MC5 - SUP5307 Loss reduction methods through longitudinal laser scraping techniques after a Radio-Frequency Quadrupole
Parker Landon (Boston University)

MC5 - SUP5308 Differentiable Phase Space Map for the Beam-Beam Force
Evan Navar Root (Cornell University (CLASSE))

MC5 - SUP5309 Analytic Calculation of Scattered Spectra in Classical and Quantum Models of Electron-Photon Interactions in Strong Plane-Wave Fields
Emerson Rogers (Old Dominion University)

MC5 - SUP5310 Differentiable Solutions to the Stochastic Fokker–Planck Equation for Electron Storage Rings
Christian Ratcliff (Facility for Rare Isotope Beams)

MC5 - SUP5311 Study of Electron Cloud in the FCC-ee Combined Function Magnets
EDGAR JAIR VILLASENOR GONZALEZ (Universidad Autónoma de Sinaloa)

MC5 - SUP5601 Analysis and Research on Measurement Errors Caused by Beam Misalignment in Energy Analysis Systems
Yan Wang (Huazhong University of Science and Technology)

MC5 - SUP5602 Lattice design to achieve reversible microbunching in a steady-state microbunching (SSMB) storage ring
Jingyuan Zhao (Tsinghua University)

MC5 - SUP5603 Multiparticle beam dynamics of ELEBT integrated with upgraded RFQ in LINAC4
Niketan Jakhar (Jawaharlal Nehru University)

MC5 - SUP5604 Dynamic aperture optimization based on the convexity of third-order resonance driving term variations
Wanbin Li (University of Science and Technology of China)

MC5 - SUP5605 Optimizing Momentum Aperture in Korea-4GSR via Higher-Order Chromaticity and W-function Analyses
Junha Kim (Pohang Accelerator Laboratory)

MC5 - SUP5606 Benchmarking Impedance Calculations for Two Types of Transition Structures in HALF: CST vs. ECHO3D
Jincheng Xiao (University of Science and Technology of China)

MC5 - SUP5607 Design and Implementation of a Cavity Voltage Feedback Tracking Algorithm for Double RF Systems
Jincheng Xiao (University of Science and Technology of China)

MC5 - SUP5608 Experimental Design for Validating Relativistic Ponderomotive Dynamics via Laser Modulation of MeV Electron Beams
Jinming Zhang (University of Science and Technology of China)

MC5 - SUP5609 PSO-Based Extraction of Trapped-Mode Parameters from Long-range Wake Potentials
Haiyan Yao (University of Science and Technology of China)

MC5 - SUP5610 Preliminary Impedance Modeling of the STCF Collimators
Zeyuan Meng (University of Science and Technology of China)

MC5 - SUP5611 Impact of Radiation on the Energy Spread of Electron Beams in a Free Electron Laser
Weihong Huang (Tsinghua University)

MC5 - SUP5612 Study of bursting threshold considering bunch length variation around the storage ring
Jihong Bian (Tsinghua University)

MC5 - SUP5613 Longitudinal single-bunch instability driven by coherent undulator radiation in the laser modulator of a SSMB storage ring based on cavity mode decomposition
Yingjie Dai (Tsinghua University)

MC5 - SUP5614 Investigation and Modeling of Intra-beam Scattering Effects in Micro-Bunched Beams
Ao Liu (ShanghaiTech University)

MC5 - SUP5615 Simulation-Based Optimization of RF Cavity PI Controllers for Beam Stability in High-Current Storage Rings
Tianlong He (University of Science and Technology of China)

MC5 - SUP5616 Theoretical method for evaluating the space-charge effect in storage rings with extremely short bunches and small bunch spacing
Zihang Zhao (Institute of High Energy Physics)

MC5 - SUP5617 Sub-40 fs temporal control of high-brightness 200 keV electron bunches with magnetic compression
Zhiyuan Wang (Tsinghua University)

MC5 - SUP5618 Hollow Bunch Method for Improved Spot Dose Accuracy in 3D PBS Proton FLASH
Peizhi Fang (Tsinghua University)

MC5 - SUP5619 Design of an Alpha-magnet-based High-repetition-rate Megaelectronvolt Ultrafast Electron Diffraction Beamline
Baiting Song (Tsinghua University)

MC5 - SUP5620 Beam-Beam Simulations with Selected Multi-Physics Effects for STCF
Sangya Li (University of Science and Technology of China)

MC5 - SUP5621 One Possible Approach for Intrabeam Scattering Calculation of Arbitrary Phase Space Distributions
Wenxuan Wu (Tsinghua University)

MC5 - SUP5622 Preliminary study on the collective effects in the storage ring-based coherent light source
Yanxu Wang (University of Chinese Academy of Sciences)

MC5 - SUP5623 Properties of trapped ions with the SCRIT method at the SCRIT electron scattering facility at RIKEN
Yuta Kikuchi (Saitama University)

MC6 - SUP6001 Transfer Learning for Generalizing a Hybrid Autoencoder-Isolation Forest Model for Time Series Anomaly Detection in ARRONAX Cyclotron Operational Data
Fatima Basbous (Nantes Université)

MC6 - SUP6003 Optimization of Multi Turn Injection into the HIT Medical Synchrotron
Corinna Steffen (Heidelberg Ion Beam Therapy Centre)

MC6 - SUP6004 Photoinjector Emittance Optimization using Latent Laser Pulse Representations
Alexander Klemps (Hamburg University of Technology)

MC6 - SUP6005 AI and machine learning techniques for LNL accelerators
Ysabella Kassandra Ong (Istituto Nazionale di Fisica Nucleare)

MC6 - SUP6006 Bayesian Optimization of Longitudinal Phase Space in the MAX IV Linac
Johan Lundquist (MAX IV Laboratory)

MC6 - SUP6007 Online Reinforcement Learning for Stripper Foil Aging Compensation at the CERN Low Energy Ion Ring
Borja Rodriguez Mateos (European Organization for Nuclear Research)

MC6 - SUP6008 Data Efficient Machine Learning Reconstruction for Remote Transverse Beam Imaging with a Multimode Fiber
Qiyuan Xu (Cockcroft Institute)

MC6 - SUP6009 Beam Charge Diagnostics in Laser-Plasma Accelerators with Diamond Detectors
Divya Divya (TU Wien)

- SUP601 Real-Time Tomography of Synchrotron Longitudinal Phase Space Based on Spatio-Temporal Neural Networks
Yixuan Luo (Tsinghua University)

MC6 - SUP6010 Rate capabilities of radiation monitors based on diamond detectors
Julian Melbinger (TU Wien)

MC6 - SUP6011 Simulation studies for FCC-ee Compton polarimeters
JUBA TAMAZIRT (Centre National de la Recherche Scientifique)

MC6 - SUP6012 Emittance measurement of the CERN antimatter beam for the GBAR experiment
Sarah GEFFROY (Laboratoire de Physique des 2 Infinis Irène Joliot-Curie)

MC6 - SUP6013 Longitudinal Beam Dynamics Investigations at the GSI UNILAC for non-relativistic ion beams
Nimue Schmidt (GSI Helmholtz Centre for Heavy Ion Research)

MC6 - SUP6014 CMOS camera-based observation and characterization of multipacting during Cavity Conditioning
Leonie Bauer (Goethe University Frankfurt)

MC6 - SUP6015 Vector Field Mapping in RF Cavities Using Anisotropic Beads for Enhanced Beam-Dynamics Characterization
Seyed Amirhossein Mousavi (Institute for Research in Fundamental Sciences)

MC6 - SUP6016 Performance of a Re-Entrant Cavity BPM and DAQ System at ATF: Theoretical Prediction and Measurement Comparison
Laura Pedraza (Instituto de Física Corpuscular)

MC6 - SUP6018 A Novel Approach for Transverse Instability Detection in the CERN Proton Synchrotron
Amaury Beeckman (European Organization for Nuclear Research)

MC6 - SUP6019 A Visible-Light Monitor for Transverse Beam Profile Diagnostics in the SLS Booster
Maria Paula Rey Barrera (Paul Scherrer Institute)

MC6 - SUP6020 Studying Coherent Transition Radiation Spatial Image Features for Bunch Length Diagnostics
Ana Guisao-Betancur (University of Liverpool)

MC6 - SUP6021 Studies of unusual pickup geometries for the arc beam position monitors of the FCC-ee
Emily Howling (John Adams Institute)

MC6 - SUP6022 Modelling and anomaly detection for Diamond-II Beam Loss Monitors using machine learning techniques
Corey Lehmann (University of Oxford)

MC6 - SUP6023 Studies of longitudinal bunch-by-bunch feedback for SOLEIL II
Elene Kravishvili (Université Paris-Saclay)

MC6 - SUP6024 Tune Compensation for Insertion Devices Motion at the SOLARIS Storage Ring
Maria Ünal (SOLARIS National Synchrotron Radiation Centre)

MC6 - SUP6025 Beam Loss Study for the L-shaped Corrugated Structure at European XFEL
Jiacheng Wu (Deutsches Elektronen-Synchrotron DESY)

MC6 - SUP6026 A Low Cost Picoseconds Precision Timing and Synchronization Over A Kilometer
Alice Renaux (Centre National de la Recherche Scientifique)

MC6 - SUP6027 AWAKE Laser Synchronisation and Timing Distribution
Joshua Gregory (Lancaster University)

MC6 - SUP6028 Analog Down-Conversion and Digital Readout System for a Cavity BPM at ATF
Juan Carlos Fernández Ortega (Instituto de Física Corpuscular)

MC6 - SUP6301 Accelerator performance drift compensation with a modified MG-GPO Algorithm
Ryan Yeung (Michigan State University)

MC6 - SUP6302 Active Supervision for AGS Bunch-merging with LLM-based Reinforcement Learning
Yue Zhao (Rensselaer Polytechnic Institute)

MC6 - SUP6303 THz Streaking Diagnostics of RF-Compressed Few-Femtosecond Relativistic Electron Bunches
Maximilian Lenz (Particle Beam Physics Lab (PBPL))

MC6 - SUP6304 Attosecond-Resolution Electron Bunch Diagnostics via Laser-Drilled Diamond X-ray Optics
Sean OTool (Stanford University)

MC6 - SUP6305 Fabrication and Commissioning of Ionization Profile Monitors for the IOTA Storage Ring
Matilda Mwaniki (Illinois Institute of Technology)

MC6 - SUP6306 Real Time Longitudinal Beam Measurements in the Crocker Nuclear Laboratory Isochronous Cyclotron
Logan Knudson (Crocker Nuclear Lab)

MC6 - SUP6307 Using Machine Learning in Control System for Isochronous Cyclotron
Gabriel Soto (University of California, Davis)

MC6 - SUP6308 Exploring Causes of Beam Loss at CEBAF
Colin Matthews (Old Dominion University)

MC6 - SUP6309 Automated Tuning Techniques at TRIUMF for the ARIEL Era
Omar Hassan (TRIUMF)

MC6 - SUP6601 Adaptive Reinforcement Learning Control for Long-Duration Stability of FEL Operation
Bowen Zhang (Shanghai Advanced Research Institute)

MC6 - SUP6602 Real-Time Tomography of Synchrotron Longitudinal Phase Space Based on Spatio-Temporal Neural Networks
Yixuan Luo (Tsinghua University)

MC6 - SUP6603 Deep Reinforcement Learning for Real-Time Optimization of Free-Electron Lasers
能源 张 (Shanghai Advanced Research Institute, Chinese Academy of Sciences)

MC6 - SUP6604 Efficient Slice Energy Spread Measurement Using Two Screens
ShengBin Ye (ShanghaiTech University)

MC6 - SUP6605 A study of beam loss data analysis for the high energy photon source
junjie ren (Institute of High Energy Physics, Chinese Academy of Sciences)

MC6 - SUP6606 Online Performance Evaluation and Anomaly Detection of Beam Position Monitor System at HEPS
Youpeng Xie (Institute of High Energy Physics, Chinese Academy of Sciences)

MC6 - SUP6607 Simulation Analysis of X-Ray Pinhole Imaging and Fresnel Zone-Plate-Based Beamline for HALF
Xinru Gao (University of Science and Technology of China)

MC6 - SUP6608 Development of a Simulator for Ring Accelerator Electron Beam Signals
Xinru Gao (University of Science and Technology of China)

MC6 - SUP6609 Oscilloscope-Based TCSPC Longitudinal Beam Diagnostics at HLS-II
MingDong Ma (University of Science and Technology of China)

MC6 - SUP6610 Design and Optimization of the High-Speed, High-Precision Average Beam Current and Lifetime Measurement System
An Wang (University of Science and Technology of China)

MC6 - SUP6611 Application of novel RF direct sampling electronics for SHINE cavity BPM
Yuxin Han (Shanghai Institute of Applied Physics)

MC6 - SUP6612 Development of a Bunch-by-Bunch BPM Measurement System at SSRF Based on Machine Learning
Jialan Pan (Shanghai Institute of Applied Physics)

MC6 - SUP6613 Laser Wire Scanning for 2D Electron Beam Size Measurement in Slant-Scattering Mode at SLEGS
ZhenWei Wang (Shanghai Institute of Applied Physics, Chinese Academy of Sciences)

MC6 - SUP6614 Development of a new ultraslow muon beam diagnostic system for the J-PARC muon g-2/EDM experiment
Mayu Wada (The University of Tokyo)

MC6 - SUP6615 Development and First Beam Observations of an Ultra-Fast Bunch-by-Bunch X-ray Beam Size Monitor at SuperKEKB
Riku Nomaru (The University of Tokyo)

MC6 - SUP6616 Results of demonstration experiment of three-dimensional spiral injection scheme for ultra-compact storage rings
Ryota Matsushita (The University of Tokyo)

MC6 - SUP6617 TDC-Based Phase Measurement for the Radio Frequency System of a Synchrotron Radiation Accelerator
xiao qu (University of Science and Technology of China)

MC6 - SUP6618 Progress of developing the bunch-by-bunch feedback system for the CSNS RCS
Weiwen Chen (Institute of High Energy Physics)

MC6 - SUP6619 Development and preliminary testing of a digital feedback system
liang xu (Institute of High Energy Physics, Chinese Academy of Sciences)

MC6 - SUP6620 Neural Network-Based Amplitude Feedforward Control Algorithm for LLRF Systems
Xiaofang Hu (University of Science and Technology of China)

MC6 - SUP6621 Design and Testing of a Universal Embedded Feedback Controller for RF Cavities
Ashish Sharma (Indian Institute of Technology Delhi)

MC7 - SUP7001 X Band Linac Machine Design for Very High Energy Electron Therapy
Euan Smith (University of Manchester)

MC7 - SUP7002 In-situ XPS study of Nb surface during mid-T bake with plasma treatment for SRF cavities
Chahinez Boutelaa (Centre National de la Recherche Scientifique)

MC7 - SUP7004 Mid-T-Baking of SRF Cavities Driven by RF Power
René Schöder (Helmholtz-Zentrum Berlin für Materialien und Energie)

MC7 - SUP7005 Quantities of Interest Statistics from Inhomogeneous Coating Thickness Distributions on SRF Cavities
Aaron Gobeyn (Technical University of Darmstadt)

MC7 - SUP7006 SRF Cavity Detuning Characterization by Continuous Wavelet Transform: A Time-Frequency Analysis.
Joyce Samantha Romero Jiménez (University of the Basque Country)

MC7 - SUP7007 Hysteresis Modeling and Dynamic Behavior of SPS Dipoles
Alberto Bellelli (European Organization for Nuclear Research)

MC7 - SUP7008 Machine learning techniques for design of complex accelerator magnets
Sophie Gresty (University of Liverpool)

MC7 - SUP7009 Development of a High-Temperature Electron Beam Test Stand for Thermal Studies of the TATTOOS target at PSI
Rémi Martinie (Paul Scherrer Institute)

MC7 - SUP7010 Material-Extrusion Additive Manufacturing of Pure Copper Components for Accelerator Vacuum Systems
Albert Hovhannisyan (Center for the Advancement of Natural Discoveries using Light Emission)

MC7 - SUP7011 Measurement of dielectric properties of 3D printed polymer-based materials for RF applications at 500 MHz
Philipp Müller (Goethe University Frankfurt)

MC7 - SUP7012 Experimental Validation of an Additively Manufactured 1.3 GHz Radio Frequency Cavity
Hermann Winter (Universität der Bundeswehr München)

MC7 - SUP7013 Post-processing of additively manufactured pure copper RFQ elements
Tobia Romano (Politecnico di Milano)

MC7 - SUP7301 Ultimate Field Measurements for SRF Cavities
Nicole Verboncoeur (Cornell University (CLASSE))

MC7 - SUP7302 Investigation of RF Surface Resistance in Sub-GHz Superconducting Elliptical Cavities Processed with Various Nitrogen-Doping Surface Treatments
Sean Moskaitis (Facility for Rare Isotope Beams)

MC7 - SUP7303 Understanding the connections between grain growth and flux expulsion in low RRR niobium SRF cavities
Katrina Howard (University of Chicago)

MC7 - SUP7601 Physics design of a full cryogenic test platform at IHEP
Zhongtian Liu (Chinese Academy of Sciences)

MC7 - SUP7602 High-power experimental study on a compact C-band spherical pulse compressor
Zexin Cao (University of Science and Technology of China)

MC7 - SUP7603 RF Design of a Compact X-band Two-stage Pulse Compression System
Zexin Cao (University of Science and Technology of China)

MC7 - SUP7604 Design of an Improved S-Band SLED Pulse Compressor
Zhicheng Huang (University of Science and Technology of China)

MC7 - SUP7605 Design and low-power measurements of an X-band parallel-coupled accelerating structure
Zhicheng Huang (University of Science and Technology of China)

MC7 - SUP7606 Design of 166 MHz and 500 MHz Bimodal RF Cavities Based on Coaxial Coupling
Dinghui Su (Shanghai Institute of Applied Physics)

MC7 - SUP7607 Enhanced superconducting properties of Nb films via a high-power impulse magnetron re-sputtering/sputtering approach for Nb–Cu 1.3 GHz RF cavities
JianJun XIAO (ShanghaiTech University)

MC7 - SUP7608 preliminary physics design of 1.3 GHz superconducting electron gun
XiongHao Yuan (Shanghai Institute of Applied Physics, Chinese Academy of Sciences)

MC7 - SUP7609 Development of a Novel Solid-State Modulator and Its Application in High-Power Klystrons
Zichen Zhong (University of Science and Technology of China)

MC7 - SUP7610 Strain gauge implementation for a Nb_3 Sn superconducting multipole wiggler developed in KEK Photon Factory.
Shota Nishi (The Graduate University for Advanced Studies, SOKENDAI)

MC7 - SUP7611 Study on the vacuum properties of Pd/Ti bilayer thin films
Tao Guo (University of Science and Technology of China)

MC7 - SUP7612 Investigation on the vacuum properties of Al-TiZrV bilayer films
Xinyu Jin (University of Science and Technology of China)

MC7 - SUP7613 Advances in large-scale non-evaporable getter coating techniques for the Hefei Advanced Light Facility
Xiaopeng Xu (University of Science and Technology of China)

MC7 - SUP7614 Efficient Design of an 8-Conductor Nonlinear Kicker for HALF Using a Python-Based Toolchain
Weibo Hu (University of Science and Technology of China)

MC7 - SUP7615 Septum magnet based on permanent magnet for HALF
Weibo Hu (University of Science and Technology of China)

MC7 - SUP7616 Design and Experiment of Energy Feedback Unit for 15 kV/15 kA AMD Excitation Pulse Source
Weibo Hu (University of Science and Technology of China)

MC7 - SUP7617 Evaluation and Mitigation of Residual Magnetic Field from the High-Voltage Pulse Power Supply for the Beam Kicker in the Muon g-2/EDM Experiment
Yuta Kawase (Iwate University)

MC7 - SUP7618 Mechanical design and structural analysis of septum magnet for Thailand new synchrotron light source
Nattakit Chaijaroenmaitree (Chulalongkorn University)

MC7 - SUP7619 Optimizing the Design and Data Processing of Tunnel Control Network for Particle Accelerator
Enchen Wu (University of Science and Technology of China)

MC7 - SUP7620 Magnetic center measurement and fiducialization method for half
BaoHou Liu (University of Science and Technology of China)

MC7 - SUP7621 Alignment error analysis based on HALF lattice
qiuyu zhang (University of Science and Technology of China)

MC7 - SUP7622 Laser phase noise measurements and analysis in High-power Optical Enhancement Cavity
Zhou Yang (Tsinghua University)

MC8 - SUP8001 Measured properties of the mixed helium and carbon ion beam at MedAustron
Matthias Kausel (EBG MedAustron GmbH)

MC8 - SUP8002 Design and Simulation of a 6 MeV S-Band RF Cavity for Compact Medical Linear Accelerators
Zahra Pouyanrad (Amirkabir University of Technology)

MC8 - SUP8003 Beam Induced Fluorescence experiments for Ultra-High-Dose-Rate dosimetry in proton therapy
Thomas Fogg (Particle Therapy Research Center)

MC8 - SUP8601 Morphological Evolution and Electrical Transport Studies in Ultrathin Te Films under 80 MeV Ag^{7+} Ion Irradiation
UPASANA BORDOLOI (Indian Institute of Technology Delhi)

MC8 - SUP8602 Synchrotron XRF Characterization of Lithium in Pyrite-Bearing Shales in North-East India: Advanced Materials Analysis for Unconventional Resources.
Zahid Mamud (The Assam Royal Global University)

MC8 - SUP8603 Defect Engineering of Transition Metal Oxide Films Employing Low Energy Ion Accelerator for Emerging Non-Volatile Memory Application
Disha Yadav (University of Petroleum and Energy Studies)

MC8 - SUP8604 A Computational Metheodology for Efficient Ac-225 Production via Proton Irradiation of Ra-226
XinYa Sun (Shanghai Advanced Research Institute, Chinese Academy of Sciences)

MC8 - SUP8605 Experimental and First-Principles GGA-PBE Insights into SHI-Induced Defects and Local Bonding Among Different Grain Sizes in $Ce_{0.75}Gd_{0.25}O_2$
VIVEK KUMAR (Jawaharlal Nehru University)

MC8 - SUP8606 Accelerator-Driven Radiation Studies of YSZ-MgO Composites for Nuclear Applications
Rishvana Parveen (University of Petroleum and Energy Studies)



Monday, May 18, 2026

Oral programme **134**

Poster Session **137**

Only one author is identified in this document due to space constraints. The full and final version can be found in the conference application during the conference and in the proceedings afterwards.

Oral programme

MOI4M MC4 - Hadron Accelerators (Invited)

May 18, 2026 **9:40 a.m. / 10:10 a.m.**

Chair: Peter McIntosh (STFC)

MOI4M01 **9:40 a.m.**

GANIL - SPIRAL2 facility: recent achievements and upgrades

Robin Ferdinand (CEA - Grand Accélérateur Nat. d'Ions Lourds)

MOI1M MC1 - Colliders and other Particle Physics Accelerators (Invited)

May 18, 2026 **10:10 a.m. / 11:10 a.m.**

Chair: Peter McIntosh (STFC)

MOI1M01 **10:10 a.m.**

CERN's future vision and priorities

Mark Thomson (University of Cambridge)

MOI2M MC2 - Photon Sources and Electron Accelerators (Invited)

May 18, 2026 **11:10 a.m. / 11:40 a.m.**

Chair: Peter McIntosh (STFC)

MOI2M01 **11:10 a.m.**

Synchrotron light facility updates: the bright future of synchrotron science

Laurent Chapon (Advanced Photon Source)

MOI4M MC0 - Opening Session (Invited)

May 18, 2026 **11:40 a.m. / 12:10 p.m.**

Chair: Peter McIntosh (STFC)

MOI4M02 **11:40 a.m.**

First acceleration of positive muons: from initial demonstration to high-energy development

Masashi Otani (High Energy Accelerator Research Organization)

MOI4M MC4 - Hadron Accelerators (Invited)

May 18, 2026 **12:10 p.m. / 12:40 p.m.**

Chair: Peter McIntosh (STFC)

MOI4M03 **12:10 p.m.**

Commissioning progress of the ESS linear accelerator

Natalia Milas (European Spallation Source)

MOI1T MC1 - Colliders and other Particle Physics Accelerators (Invited)

May 18, 2026 **2:00 p.m. / 4:00 p.m.**

Chair: Adriana Rossi (CERN)

MOI1T01 **2:00 p.m.**
Project status and R&D efforts for Super Tau-Charm Facility
Jingyu Tang (University of Science and Technology of China)

MOI1T02 **2:30 p.m.**
Prospects for linear colliders
Steinar Stapnes (European Organization for Nuclear Research)

MOO1T MC1 - Colliders and other Particle Physics Accelerators (Contributed)

May 18, 2026 **2:00 p.m. / 4:00 p.m.**

Chair: Adriana Rossi (CERN)

MOO1T01 **3:00 p.m.**
Obtaining a record luminosity production in the Large Hadron Collider in 2025
Jorg Wenninger (European Organization for Nuclear Research)

MOO1T03 **3:20 p.m.**
Progress Towards A Muon Collider
Paul Jurj (Science and Technology Facilities Council)

MOO1T02 **3:40 p.m.**
The Ghost Collider: An Innovative Higgs Factory
Robert Apsimon (Cockcroft Institute)

MOI7M MC7 - Accelerator Technology and Sustainability (Invited)

May 18, 2026 **2:00 p.m. / 4:00 p.m.**

Chair: Nuria Catalan (CERN)

MOI7M01 **2:00 p.m.**
Development of low period cryogenic permanent magnet undulators
Mathieu VALLEAU (Synchrotron soleil)

MOI7M02 **2:30 p.m.**
HTS technology development for energy efficient magnets in PSI Large Research Facilities
Stephane Sanfilippo (Paul Scherrer Institute)

MOO7M MC7 - Accelerator Technology and Sustainability (Contributed)

May 18, 2026 **2:00 p.m. / 4:00 p.m.**

Chair: Nuria Catalan (CERN)

MOO7M01 **3:00 p.m.**
Commissioning of the RF System for High Energy Photon Source
Pei Zhang (Institute of High Energy Physics)

MOO7M02 **3:20 p.m.**
Tapered APPLE undulators at TPS
Ting-Yi Chung (National Synchrotron Radiation Research Center)

MOO7M03 **3:40 p.m.**
Machine learning techniques for design of complex accelerator magnets
Sophie Gresty (University of Liverpool)

Poster Session

MOV Monday Poster Session
(Invited poster)

May 18, 2026 **4:00 p.m. / 6:00 p.m.**

MC1 - MOV1001 High-intensity LHC tests in 2025 for transverse beam dynamics studies
Nicolas Mounet (European Organization for Nuclear Research)

MC1 - MOV1002 Defining the new FCC-ee baseline optics
Jacqueline Keintzel (European Organization for Nuclear Research)

MC1 - MOV1003 FCC-ee Injector Complex: Status, Highlights and Outlook
Paolo Craievich (Paul Scherrer Institute)

MC6 - MOV6301 THz Streaking Diagnostics of RF-Compressed Few-Femtosecond Relativistic Electron Bunches
Maximilian Lenz (Particle Beam Physics Lab (PBPL))

MC6 - MOV6601 Application of novel RF direct sampling electronics for SHINE cavity BPM
Yuxin Han (Shanghai Institute of Applied Physics)

MC6 - MOV6602 Laser Wire Scanning for 2D Electron Beam Size Measurement in Slant-Scattering Mode at SLEGS
ZhenWei Wang (Shanghai Institute of Applied Physics, Chinese Academy of Sciences)

MC7 - MOV7001 Qualification and commissioning of superconducting magnets for the S3 spectrometer at GANIL
Marc-Hervé Stodel (Grand Accélérateur Nat. d'Ions Lourds)

MC7 - MOV7002 The superconducting magnets for FAIR - overview and project status
Kei Sugita (GSI Helmholtz Centre for Heavy Ion Research)

MC7 - MOV7003 Recent Developments in RF Stabilization at the SPARC_LAB Facility of LNF-INFN
Xianghe Fang (Istituto Nazionale di Fisica Nucleare, Laboratori Nazionali di Frascati)

MC7 - MOV7004 The Potential of Multi-Material Additive Manufacturing Illustrated by an RFQ Prototype
Michael Mayerhofer (Universität der Bundeswehr München)

MOP

Monday Poster Session

(Poster Presentation)

May 18, 2026 **4:00 p.m. / 6:00 p.m.**

MC1 - MOP1001 Study of Quench Margins for Betatron Halo Losses with New HL-LHC Collimation Optics (v1.6)
Helene Guerin (European Organization for Nuclear Research)

MC1 - MOP1003 Observations of 50 Hz Harmonics in the LHC Transverse Beam Spectra
Anna Radoslavova (European Organization for Nuclear Research)

MC1 - MOP1004 Preparation of the 2026 LHC high-intensity tests in view of HL-LHC
Sofia Kostoglou (European Organization for Nuclear Research)

MC1 - MOP1005 Emittance growth due to Power Converter Ripple and Noise at 50 Hz harmonics during LHC collisions
Anna Radoslavova (European Organization for Nuclear Research)

MC1 - MOP1006 Study and Mitigation of Radiation Effects in the LHCb Experimental Cavern
Roberto Cala' (European Organization for Nuclear Research)

MC1 - MOP1007 Beam Loss Dynamics from Spurious CLIQ Discharges in HL-LHC Inner Triplet Magnets
Christophe Lannoy (European Organization for Nuclear Research)

MC1 - MOP1008 Insights from LHC Bunch-by-Bunch Performance Analysis
Ilias Efthymiopoulos (European Organization for Nuclear Research)

MC1 - MOP1011 Validation of the New HL-LHC Baseline and Alternative Operational Scenarios
Nicolas Mounet (European Organization for Nuclear Research)

MC1 - MOP1013 Beam Dynamics Studies in the SuperKEKB Linear Accelerator and Beam Transport System
Andrea Aguirre Polo (Deutsches Elektronen-Synchrotron DESY)

MC1 - MOP1014 Radiation environment in the FCC-ee arcs caused by synchrotron photon emission
Kate Taylor (European Organization for Nuclear Research)

MC1 - MOP1015 Optics modelling challenges for the HL-LHC
Riccardo De Maria (European Organization for Nuclear Research)

MC1 - MOP1016 Simulations and Measurements of Injection Backgrounds at SuperKEKB
Giulia Nigrelli (European Organization for Nuclear Research)

MC1 - MOP1017 Experimental study of luminosity calibration corrections using tune scaling to mimic multi-collision configurations
Tatiana Pieloni (Ecole Polytechnique Fédérale de Lausanne)

MC1 - MOP1018 FCC-ee Energy Calibration and Polarization - Towards the pre-TDR
Jacqueline Keintzel (European Organization for Nuclear Research)

MC1 - MOP1019 LHC Magnetic Model Revisited: Beam-Based Measurements and Machine Reproducibility at Injection
Jorg Wenninger (European Organization for Nuclear Research)

MC1 - MOP1020 Study of the Impact of BFPP Losses in the LHCb Insertion
Roberto Cala' (European Organization for Nuclear Research)

MC1 - MOP1021 Study of the Touschek Effect in the FCC-ee
Giacomo Broggi (European Organization for Nuclear Research)

MC1 - MOP1022 The Linear Ghost Collider: An Efficient Higgs Factory
Peter Williams (Cockcroft Institute)

MC1 - MOP1025 Dependence of muon collider luminosity on ionization cooling performance
Marion Vanwelde (European Organization for Nuclear Research)

MC1 - MOP1027 From Concept to Feasibility: Optimised Design Studies of the ALICE Fixed-Target Configuration for Lead Ions at the HL-LHC
Marcin Patecki (Warsaw University of Technology)

MC1 - MOP1028 Spin tracking and equilibrium polarization computation in Xsuite: implementation and benchmarks
Giovanni Iadarola (European Organization for Nuclear Research)

MC1 - MOP1029 Studies of crystal and amorphous collimation of Pb, O and Ne beams at LHC
Maria Aquilina (Warsaw University of Technology)

MC1 - MOP1030 Monte Carlo Studies of Muon Background at SND@LHC
Roberto Cala' (European Organization for Nuclear Research)

MC1 - MOP1031 Overcoming RF power limitations for the HL-LHC era
Birk Emil Karlsen-Baeck (European Organization for Nuclear Research)

MC1 - MOP1032 Use of DBSCAN for full-automatic-data-based anomaly detection method on Turn-by-Turn Beam Position Monitors (TbTBPMs) in SuperKEKB
Quentin Bruant (Commissariat à l'énergie Atomique et aux Energies Alternatives)

MC1 - MOP1033 Impact of Power Supply Ripple on Beam Dynamics in the FCC-ee
Sofia Kostoglou (European Organization for Nuclear Research)

MC1 - MOP1034 Modelling Dust Grain Ionisation and Dynamics in Flat Lepton Beams Using a Sliced Approach
Philipp Ziegler (European Organization for Nuclear Research)

MC1 - MOP1035 Radiation and power deposition studies for the FCC-ee halo collimation system
Kate Taylor (European Organization for Nuclear Research)

MC1 - MOP1036 Benchmarking FLUKA Simulations of Double Channeling and Crystal Alignment Against the TWOCRYST Experiment
Kate Taylor (European Organization for Nuclear Research)

MC1 - MOP1037 Amplitude Detuning Studies in SuperKEKB
Jacqueline Keintzel (European Organization for Nuclear Research)

MC1 - MOP1038 Progress on Optics Measurements for the FCC-ee
Jacqueline Keintzel (European Organization for Nuclear Research)

MC1 - MOP1039 FCC-ee Optics Tuning - Towards the pre-TDR
Jacqueline Keintzel (European Organization for Nuclear Research)

MC1 - MOP1040 Initial Studies on Resonance Driving Term Correction Knobs for FCC-ee with Beam-Beam and Imperfections
Tirsi Prebibaj (European Organization for Nuclear Research)

MC1 - MOP1041 Beam Delivery System Challenges for Plasma Wakefield-Accelerated Beams
Lewis Kennedy (European Organization for Nuclear Research)

MC1 - MOP1042 Study and Design of Thin Windows for the MC Demonstrator RF Cavity
Dario Giove (Istituto Nazionale di Fisica Nucleare)

MC1 - MOP1043 Design of Pion Transport from the ESSnuSB+ Target to the Low-Energy nuSTORM Ring
Ilias Efthymiopoulos (European Organization for Nuclear Research)

MC1 - MOP1044 Neutrino fluence estimates for forward experiments at a 10 TeV muon collider
Helene Guerin (European Organization for Nuclear Research)

MC1 - MOP1045 Status of the 10TeV center-of-mass energy muon collider ring
Marion Vanwelde (European Organization for Nuclear Research)

MC1 - MOP1046 Counter-rotating beam-coupling impedance study with Wakis for the muon collider RCS chain
Elleanor Lamb (European Organization for Nuclear Research)

MC1 - MOP1047 Damping ring for FCC-ee Injector complex
Antonio De Santis (Istituto Nazionale di Fisica Nucleare)

MC1 - MOP1048 Simulation and study of the Muon Cooling Demonstrator Rectilinear Channel in BDSIM
Paul Jurj (Imperial College London)

MC1 - MOP1049 Performance of the Synchrotron Radiation Collimation System in the FCC-ee Interaction Region
Giulia Nigrelli (European Organization for Nuclear Research)

MC1 - MOP1050 Injection Background Studies at FCC-ee
Giulia Nigrelli (European Organization for Nuclear Research)

MC1 - MOP1051 The Analysis of Imperfection Fields in a Quasi-Frozen Spin Lattice for the EDM search
Sergey Kolokolchikov (Russian Academy of Sciences)

MC1 - MOP1052 Proposed Collimation Layout for the FCC-ee with Local Chromaticity Correction Optics
Giovanni Iadarola (European Organization for Nuclear Research)

MC1 - MOP1054 LHC operation with oxygen and neon ions
Reyes Alemany-Fernandez (European Organization for Nuclear Research)

MC1 - MOP1055 Synchrotron Radiation Levelling at the Future Circular Hadron Collider
Frank Zimmermann (European Organization for Nuclear Research)

MC1 - MOP1056 Design, prototyping and production of the Vacuum Assembly for eXperiments (VAX) for HL-LHC.
Edward Barnes (European Organization for Nuclear Research)

MC1 - MOP1057 LHC Machine Configuration Evolution over Run 3 for maximised Performance and Inner Triplet Lifetime
Stephane Fartoukh (European Organization for Nuclear Research)

MC1 - MOP1058 Modeling longitudinal beam parameter spreads in the LHC
Birk Emil Karlsen-Baeck (European Organization for Nuclear Research)

MC1 - MOP1059 Automated Post-Mortem Beam Orbit Analysis in the LHC
Jan Uythoven (European Organization for Nuclear Research)

MC1 - MOP1060 Optimisation Techniques for Integrated Luminosity with and without Beta* Levelling for a circular collider with examples from the CERN LHC
Maria Aquilina (University of Malta)

MC1 - MOP1061 Optics cycles for maximum integrated luminosity in the HL-LHC
Riccardo De Maria (European Organization for Nuclear Research)

MC1 - MOP1062 Operational loss limit in the off-momentum collimation section of the LHC
Sara Morales Vigo (European Organization for Nuclear Research)

MC1 - MOP1063 First look at the impact of beam-beam effects on the luminosity scan observables
Jorg Wenninger (European Organization for Nuclear Research)

MC1 - MOP1064 Latest Measurements of Magnetic Noise in the LHC Tunnel
Guido Sterbini (European Organization for Nuclear Research)

MC1 - MOP1065 Prioritization of Lattice Skew Quadrupole Power Converter Circuit Interlocking in the LHC
Christophe Lannoy (European Organization for Nuclear Research)

MC1 - MOP1066 Probing the ultimate beta* reach of the LHC
Mattia Stefanelli (European Organization for Nuclear Research)

MC1 - MOP1067 Design challenges and solutions for flat optics in HL-LHC
Joshua Gray (European Organization for Nuclear Research)

MC1 - MOP1068 Interplay of beam-beam and linear coupling on luminosity calibration
Tatiana Pieloni (Ecole Polytechnique Fédérale de Lausanne)

MC1 - MOP1069 Impact of dipole field quality on the emittance tuning and the dynamic aperture of the High Energy Booster of the Future Circular Colliders
Quentin Bruant (Commissariat à l'Energie Atomique et aux Energies Alternatives)

MC1 - MOP1070 Inverse Modeling of Spatially Coherent Random Vibrations for Assessing Impact on Particle Beam Dynamics in Circular Accelerators
Purinut Lersnimitthum (Université Paris-Saclay)

MC1 - MOP1071 Luminosity Loss from Ground Motion in the FCC-ee: MDI and Arc Quadrupole Vibration Studies
Mael Le Garrec (Institut National de Physique Nucléaire et de Physique des Particules)

MC1 - MOP1072 Updates on impedance studies for the FCCee High Energy Booster
Adnan Ghribi (Grand Accélérateur Nat. d'Ions Lourds)

MC1 - MOP1073 Preliminary Optics Design and Performance Study of a Monochromatization Scheme for SuperKEKB
Anna Korsun (Université Paris-Saclay, CNRS/IN2P3, IJCLab)

MC1 - MOP1074 Monochromatization Optics Update and Beam-Beam Performance Studies for the FCC-ee GHC v23 Lattice and First Attempt at Implementation in FCC-ee LCC v105 Lattice
Anna Korsun (Université Paris-Saclay, CNRS/IN2P3, IJCLab)

MC1 - MOP1075 Experimental Study of Charging and Mobilisation of Dust Grains on Beam Screen Surfaces
Philipp Ziegler (Goethe University Frankfurt)

MC1 - MOP1076 Integrated simulation of compton backscattering and beam-beam effects for bunch intensity control IN FCC-ee
Illya Drebot (Istituto Nazionale di Fisica Nucleare)

MC1 - MOP1077 Simulations of Phase-Advance Correction Strategies for FCC-ee and Impact on its Performance
Tirsi Prebibaj (European Organization for Nuclear Research)

MC1 - MOP1078 On-axis injection with multipole injection kicker in FCC-ee
Sen Yue (European Organization for Nuclear Research)

MC1 - MOP1079 Tuning Strategies for the FCC-ee Local Chromaticity Correction Collider Lattice
Kévin André (European Organization for Nuclear Research)

MC1 - MOP1080 SuperKEKB BT Tracking and DA Comparison as an approximation for injection efficiency
Nikita van Gils (European Organization for Nuclear Research)

MC1 - MOP1081 Measuring radiation damping time with amplitude detuning
Ewen Maclean (European Organization for Nuclear Research)

MC1 - MOP1082 Comparison of the criticality of the powering failure of the main dipole circuits for the GHC and LCC lattices for FCC-ee
Delphine Domange (European Organization for Nuclear Research)

MC1 - MOP1083 Effect of FCC-ee collimator impedance on beam stability: design and optimization strategy
Dora Gibellieri (European Organization for Nuclear Research)

MC1 - MOP1084 Design Refinements And Prototyping Of Lead Shielding For The FCC-ee Arc Dipoles
Thomas Banks (European Organization for Nuclear Research)

MC1 - MOP1086 Update on the itn coordinated effort for ILC technology development in europe
Laura Monaco (Istituto Nazionale di Fisica Nucleare, Laboratori Acceleratori e Superconduttività Applicata)

MC1 - MOP1087 Ultra-low beta* optics proposal with new final doublet and better field quality at ATF2
Lewis Kennedy (European Organization for Nuclear Research)

MC1 - MOP1088 Advanced Flight Simulator Studies in Electron Test Facilities
Pierre Korysko (University of Oxford)

MC1 - MOP1089 Pulse stretcher for the PADME-X17 experiment
Antonio De Santis (Istituto Nazionale di Fisica Nucleare)

MC1 - MOP1090 Energy ramps for the high-energy booster of the FCC-ee collider
Lina VALLE (European Organization for Nuclear Research)

MC1 - MOP1091 Challenges of the Long Shutdown 3 for the LHC: from preparation to execution
Michele Loffredo (European Organization for Nuclear Research)

MC1 - MOP1092 FERMI Linac Upgrade: Commissioning Experience of the 1st S-band High Gradient (HG) Module
Nuaman Shafqat (Elettra-Sincrotrone Trieste S.C.p.A.)

MC1 - MOP1094 Impact of Rapid Acceleration on Beam Dynamics in the Rapid-Cycling Synchrotrons of a Muon Collider
Lisa Soubirou (Université Paris-Saclay)

MC1 - MOP1095 ESSnuSB+: Target Station Studies
Julien Hiegel (Centre National de la Recherche Scientifique)

MC1 - MOP1096 Preliminary Engineering Design of the Cooling Cell for the Muon Collider Cooling Demonstrator
Lucio Rossi (Istituto Nazionale di Fisica Nucleare)

MC1 - MOP1097 Study and Design of a 3 Cells 704 MHz Structure for the MC Demonstrator RF Cavity
Dario Giove (Istituto Nazionale di Fisica Nucleare)

MC1 - MOP1098 LEnuSTORM: A Low-Energy Muon Storage Ring for Neutrino Cross-Section Measurements
Ting Wing CHOI (Uppsala University)

MC1 - MOP1099 Powering Concepts for Resistive Magnets in the Muon Collider Rapid Cycling Synchrotron
Fulvio Boattini (European Organization for Nuclear Research)

MC1 - MOP1100 Impact of Intrabeam Scattering and Space-Charge in the Muon Collider Cooling Channel
Paula Desire Valdor (European Organization for Nuclear Research)

MC1 - MOP1101 Impact of Muon Collider lengths and energies on the resulting muon decays
Rebecca Taylor (European Organization for Nuclear Research)

MC1 - MOP1102 FLUKA studies of spent beam extraction in the muon collider target system
Jerzy Manczak (European Organization for Nuclear Research)

MC1 - MOP1103 Optimisation of beam transfer between RCS in the Muon Collider
Elleanor Lamb (European Organization for Nuclear Research)

MC1 - MOP1104 Simulation studies for the nuSTORM facility
WONJONG CHANG (University of Warwick)

MC1 - MOP1105 Refined Design of the Front-End Complex for a Muon Cooling Demonstrator at CERN
Paul Jurj (Imperial College London)

MC1 - MOP1106 Study of the Impedance-related Instabilities in the FCC-ee Damping Ring
Shalva Bilanishvili (Istituto Nazionale di Fisica Nucleare)

MC1 - MOP1107 An Updated Assessment of the Electron Cloud Effects in the Damping Ring of the FCC-ee Injector Complex
Ozgur Etisken (Kirikkale University)

MC1 - MOP1108 Investigations of Fast Ion Instability for the Damping Ring Options of the FCC-ee Injector Complex
Frank Zimmermann (European Organization for Nuclear Research)

MC1 - MOP1109 First Observation of Controlled Beam-Halo Population and Cleaning at the LHC by an AC Dipole
Massimo Giovannozzi (European Organization for Nuclear Research)

MC1 - MOP1110 Linear imperfection and orbit correction scheme for the PERLE accelerator
Rasha Abukeshek (Université Paris-Saclay, CNRS/IN2P3, IJCLab)

MC1 - MOP1111 Measured and simulated channeled-halo distributions for the TWOCRYST experiment at the LHC
Chiara Maccani (European Organization for Nuclear Research)

MC1 - MOP1112 Status of the FCC-ee MDI full-scale mock-up
Manuela Boscolo (Istituto Nazionale di Fisica Nucleare)

MC1 - MOP1113 The frequency domain method of studying the Electric Dipole Moment in the quasi-frozen spin version of the NICA collider
Sergey Kolokolchikov (Russian Academy of Sciences)

MC1 - MOP1114 Beam transfer concept at the FCC-ee injector complex
Yann Dutheil (European Organization for Nuclear Research)

MC1 - MOP1115 Crystal Channelling Optimisation in the LHC Using Reinforcement Learning
Andrea Vella (University of Malta)

MC1 - MOP1116 Design and manufacturing of the next generation of CERN's North Area Splitter Collimators (TCSC)
Thibaut Parmentier (European Organization for Nuclear Research)

MC1 - MOP1117 Current Status and Recent Development of the Xcoll-FLUKA Interface
André Donadon Servelle (European Organization for Nuclear Research)

MC1 - MOP1118 HL-LHC BGI mechanical design: vacuum, impedance and integration optimization.
Chiara Pasquino (European Organization for Nuclear Research)

MC2 - MOP2001 Pulse Dispersion Measurement in Pulsed wire setup
Saif Khan (Synchrotron soleil)

MC2 - MOP2002 Superblock-based SCILAB-Xcos simulation of electron radiation intensity for multiple undulator schemes
Saif Khan (Synchrotron soleil)

MC6 - MOP6301 Long-Short-Term-Memory and Transformer architectures for anomaly detection in the power supplies
Osama Mohsen (Argonne National Laboratory)

MC6 - MOP6302 APS RAG: A domain-aware hybrid retrieval-augmented generation system for accelerator operations and knowledge synthesis
Yine Sun (Argonne National Laboratory)

MC6 - MOP6303 Leveraging low-cost sensors and deep autoencoders for pump health monitoring in accelerator facilities
Joseph Calvey (Argonne National Laboratory)

MC6 - MOP6304 Control system upgrades for autonomous beamline control at the Argonne Wakefield Accelerator test facility
Alexander Ody (Argonne National Laboratory)

MC6 - MOP6305 Towards hysteresis-aware tune knobs at APS-U with data-driven modeling
Osama Mohsen (Argonne National Laboratory)

MC6 - MOP6306 Efficient Five-dimensional Beam Sigma Matrix Determination Using Differentiable Simulation
Osama Mohsen (Argonne National Laboratory)

MC6 - MOP6307 NSLS-II injector optimization using reinforcement learning and machine learning methods
Guimei Wang (Brookhaven National Laboratory)

MC6 - MOP6308 Bayesian optimization for injection tuning at the Cornell Electron Storage Ring
Antoine Chapelain (Cornell University (CLASSE))

MC6 - MOP6309 The EIC-BeamAI Collaboration: Preparing Machine Learning for the Electron- Ion Collider
Georg Hoffstaetter (Cornell University (CLASSE))

MC6 - MOP6310 Machine-Learning-Assisted Bayesian Uncertainty Quantification for Accelerator Digital Twin Modeling and Control
Georg Hoffstaetter (Cornell University (CLASSE))

MC6 - MOP6311 AI-Ready Lattice Representation and ML Optimization for the BNL Booster-to-AGS Transfer Line
Todd Satogata (Thomas Jefferson National Accelerator Facility)

MC6 - MOP6312 Optimization of Fermilab Booster using hybrid Bayesian/RL framework
Nikita Kuklev (Fermi National Accelerator Laboratory)

MC6 - MOP6313 APOLLO: a facility-scale differentiable virtual accelerator for Fermilab
Nikita Kuklev (Fermi National Accelerator Laboratory)

MC6 - MOP6314 End-to-end ML commissioning toolkit for the IOTA proton injector
Nikita Kuklev (Fermi National Accelerator Laboratory)

MC6 - MOP6315 Virtual diagnostics and phase-space reconstruction of Linac beam at FNAL
Ralitsa Sharankova (Fermi National Accelerator Laboratory)

MC6 - MOP6316 Hardware Aware Artificial Intelligence (HAAI): Progress on Realtime Beam Tomography Reconstruction for the Fermilab Recycler using Machine Learning and Edge Processing
Kyle Hazelwood (Fermi National Accelerator Laboratory)

MC6 - MOP6317 Accelerator performance drift compensation with a modified MG-GPO Algorithm
Ryan Yeung (Michigan State University)

MC6 - MOP6318 Machine Learning Methods for Optimizing UH Linac and FEL
Shek Hong Perseus Chan (University of Hawai'i at Mānoa)

MC6 - MOP6319 Model Predictive Control and ML for Control and Estimation: Application to IPF at LANSCE
Alan Williams (Los Alamos National Laboratory)

MC6 - MOP6320 Machine Learning-Assisted Calibration of The Accelerator Simulator HPSim
Christopher Leon (Los Alamos National Laboratory)

MC6 - MOP6321 Evaluating Language Models for Understanding Accelerators at Advanced Light Source
Thorsten Hellert (Lawrence Berkeley National Laboratory)

MC6 - MOP6322 Status of Osprey: A Production Framework for Agentic AI in Control Systems
Thorsten Hellert (Lawrence Berkeley National Laboratory)

MC6 - MOP6323 Project Poseidon: Foundation Models and Agentic Workflows through Unified Control System Data Architecture
Thorsten Hellert (Lawrence Berkeley National Laboratory)

MC6 - MOP6324 Agentic AI as a Middle Layer for Accelerator Control: Multi-Facility Deployment and Early Results
Thorsten Hellert (Lawrence Berkeley National Laboratory)

MC6 - MOP6325 Safety Architectures for Agentic AI in High-Stakes Accelerator Control
Thorsten Hellert (Lawrence Berkeley National Laboratory)

MC6 - MOP6326 ARIEL: Agentic Retrieval Interface for Electronic Logbooks
Thorsten Hellert (Lawrence Berkeley National Laboratory)

MC6 - MOP6327 A Configurable Unsupervised Anomaly Detection Service at ALS
Gianluca Martino (Lawrence Berkeley National Laboratory)

MC6 - MOP6328 Unsupervised Distributed Anomaly Detection for Accelerator Diagnostics
Gianluca Martino (Lawrence Berkeley National Laboratory)

MC6 - MOP6329 Overview of the US DOE Multi-Office particle Accelerator Team (MOAT) project
Jean-Luc Vay (Lawrence Berkeley National Laboratory)

MC6 - MOP6330 Hybrid Online Optimization for Hands-Off Tuning of the ALS Injector
Gianluca Martino (Lawrence Berkeley National Laboratory)

MC6 - MOP6331 Autonomous Planning and Execution of Injector Tuning via the Osprey Agentic Framework
Gianluca Martino (Lawrence Berkeley National Laboratory)

MC6 - MOP6332 Simplified reinforcement learning enabled deterministic feedback controls in lasers and accelerators: experimental demonstration on laser combining
Dan Wang (Lawrence Berkeley National Laboratory)

MC6 - MOP6333 EM Modeling of ALS-U Ferrite Kicker with micrometer coatings
Dan Wang (Lawrence Berkeley National Laboratory)

MC6 - MOP6334 Preliminary Study of a Cavity-Based, Non-Destructive Beam Monitor on the HTU Beamline
Dan Wang (Lawrence Berkeley National Laboratory)

MC6 - MOP6335 ML surrogate models and non-invasive diagnostics for real time accelerator control
Balsa Terzic (Old Dominion University)

MC6 - MOP6336 Active Supervision for AGS Bunch-merging with LLM-based Reinforcement Learning
Yue Zhao (Rensselaer Polytechnic Institute)

MC6 - MOP6337 Context-Aware Anomaly Detection for Storage-Ring BPMs Using Multi-Signal Machine Learning
Duncan Scott (SLAC National Accelerator Laboratory)

MC6 - MOP6338 Beam-Based Characterisation of BPM Electronics Thermal Sensitivity after Two Decades of Operation
Duncan Scott (SLAC National Accelerator Laboratory)

MC6 - MOP6339 Real-time autonomous 6D phase-space tomography for LCLS-II injector monitoring
Auralee Edelen (SLAC National Accelerator Laboratory)

MC6 - MOP6340 Simulation study of an Electro-Optic Bunch-Profile-Monitor (EO-BPM): Machine-Learning-based reconstruction of beam's transverse profile
Spencer Kelham (Northern Illinois University)

MC6 - MOP6341 Design Updates for the Phase-Diversity Electro-Optic Sampling Experiment Using an EEX-Generated Longitudinally Shaped Beam at the Argonne Wakefield Accelerator
Alexander Ody (Argonne National Laboratory)

MC6 - MOP6342 AI-Enabled Adaptive Control of Beam Current in an Isochronous Cyclotron Using GA-Tuned PID
Gabriel Soto (University of California, Davis)

MC6 - MOP6343 Using Machine Learning in Control System for Isochronous Cyclotron
Gabriel Soto (University of California, Davis)

MC6 - MOP6344 XBPM calibration and simulations at SIRIUS
Gabriel Ascenção (Brazilian Synchrotron Light Laboratory)

MC6 - MOP6346 Electron Beam Longitudinal Profile Measurements at High Charge in the APS-U Particle Accumulator Ring
Jeffrey Dooling (Argonne National Laboratory)

MC6 - MOP6348 Beam-induced Resistive Wall Heating and Thermal Analysis for the HSR Cryogenic Snake BPM Assembly
Medani Sangroula (Brookhaven National Laboratory)

MC6 - MOP6349 Optimal experimental design for BtA orbit measurements
Eiad Hamwi (Cornell University (CLASSE))

MC6 - MOP6350 NSRL beam flatness Bayesian optimization in SciBmad using Xopt
Eiad Hamwi (Cornell University (CLASSE))

MC6 - MOP6351 BNL Linac Emittance Optimization
Eiad Hamwi (Cornell University (CLASSE))

MC6 - MOP6352 Digital twin development for the NASA Space Radiation Laboratory
Kiel Hock (Brookhaven National Laboratory)

MC6 - MOP6354 Attosecond-Resolution Electron Bunch Diagnostics via Laser-Drilled Diamond X-ray Optics
Sean OTool (Stanford University)

MC6 - MOP6355 Selection of Transverse Diagnostics to measure Few-Micron beam modulations in the Nanopatterned Microbunching Experiment
Rachel Margraf-O'Neal (Argonne National Laboratory)

MC6 - MOP6356 Performance of a Polarizer-based Photoinjector Laser Pulse Train Generator for the Argonne Wakefield Accelerator
Rachel Margraf-O'Neal (Argonne National Laboratory)

MC6 - MOP6357 Fabrication and Commissioning of Ionization Profile Monitors for the IOTA Storage Ring
Matilda Mwaniki (Illinois Institute of Technology)

MC6 - MOP6360 Identifying Anomalies at CEBAF via Singular Value Decomposition of Cross-Plane Covariance
Jerone Samari (Thomas Jefferson National Accelerator Facility)

MC6 - MOP6361 Two-dimensional phase scans in 805 MHz LANSCE CCLs
Petr M. Anisimov (Los Alamos National Laboratory)

MC6 - MOP6362 Transverse Halo Profiling of a 63-MeV Electron Beam with a Single-Crystal Diamond Detector
Deepak Rai (Los Alamos National Laboratory)

MC6 - MOP6363 Beam Halo-to-Core Measurements with a Thin Diamond Detector at WNR
Deepak Rai (Los Alamos National Laboratory)

MC6 - MOP6366 Preliminary study of a cavity-based Beam Monitor with low-level RF processing on RFSoC
wei Liu (Lawrence Berkeley National Laboratory)

MC6 - MOP6367 ALS-U Beam Diagnostics: Beam Position Monitor (BPM) Characterization and Testing
Andrea Zabala (Lawrence Berkeley National Laboratory)

MC6 - MOP6369 Micro-fabricated photoconductive sampling devices for electron beam field measurements
Veronica Guo (Stanford University)

MC6 - MOP6370 Diagnosing Beam Extinction with the Upstream Extinction Monitor in the Mu2e Experiment
Ryan Hensley (University of California, Davis)

MC6 - MOP6371 Real Time Longitudinal Beam Measurements in the Crocker Nuclear Laboratory Isochronous Cyclotron
Logan Knudson (Crocker Nuclear Lab)

MC6 - MOP6372 Parallel Beam-Based Alignment for the SIRIUS Storage Ring
Ximenes Resende (Brazilian Synchrotron Light Laboratory)

MC6 - MOP6373 Facility-Wide Monitoring and Early Detection of Failures at LANSCE
Nikolai Yampolsky (Los Alamos National Laboratory)

MC6 - MOP6374 SPEAR3 BOOSTER RESPONSE MATRIX MEASUREMENT
Donish Khan (SLAC National Accelerator Laboratory)

MC6 - MOP6375 Integration of X-Ray Diagnostics into Fast Orbit Feedback for Local Source Stabilization at NSLS-II
Guimei Wang (Brookhaven National Laboratory)

MC6 - MOP6376 Test-Bench Measurement of Power-Supply, Magnet, and Vacuum-Chamber Bandwidth at NSLS-II
Guimei Wang (Brookhaven National Laboratory)

MC6 - MOP6377 Development of a kHz-Bandwidth Multi-Cell FOFB System for NSLS-IIU
Guimei Wang (Brookhaven National Laboratory)

MC6 - MOP6378 A Custom Fiber-Based Monitor for Testing Anti-Resonant-Fiber Damage in Ionizing Radiation Environments
Charles Rohde (Los Alamos National Laboratory)

MC6 - MOP6379 Implementation and Design of a Laser Neutralizer in the LANSCE LEBT
Charles Rohde (Los Alamos National Laboratory)

MC6 - MOP6381 Exploring Causes of Beam Loss at CEBAF
Colin Matthews (Old Dominion University)

MC6 - MOP6384 First Results of Laser-Based H- Beam Diagnostic at LANSCE
Martin Kay (Los Alamos National Laboratory)

MC6 - MOP6385 Open-Hardware LLRF Development for the Sirius 3rd-Harmonic Passive Cavity on an MTCA.4 Platform
David Daminelli (Brazilian Synchrotron Light Laboratory)

MC6 - MOP6386 Transient Beam-Loading Studies During Accelerator Physics Experiment At RHIC
Arshdeep Singh (Brookhaven National Laboratory)

MC6 - MOP6387 FPGA Based Digital Low-Level RF Control System for the LANL RFQ Teststand
Sungil Kwon (Los Alamos National Laboratory)

MC6 - MOP6388 Python-EPICS RF Conditioning Automatic Control System at the Spallation Neutron Source
Sung-Woo Lee (Oak Ridge National Laboratory)

MC6 - MOP6389 High-power Test and System Integration of Direct RF Sampling Based LLRF Control and Monitoring System for S-Band Accelerating Structures
Wei Hou Tan (SLAC National Accelerator Laboratory)

MC6 - MOP6390 Automated Tuning Techniques at TRIUMF for the ARIEL Era
Omar Hassan (TRIUMF)

MC6 - MOP6391 AI-ML Deployment in the ATLAS Control Room: Online Interface & Virtual Accelerator Model
Brahim Mustapha (Argonne National Laboratory)

MC6 - MOP6392 Multi-fidelity Bayesian optimization of IP electron beam size in the ASU CXLS
Lucas Malin (Arizona State University)

MC6 - MOP6393 Longitudinal Phase Space Diagnostics for the AGS
Kiel Hock (Brookhaven National Laboratory)

MC6 - MOP6394 Progress in the development of the community Particle Accelerator Lattice Standard (PALS)
David Sagan (Cornell University (CLASSE))

MC6 - MOP6395 Genetic optimizations of RF cell profile using Superfish
Michael Kaemingk (Los Alamos National Laboratory)

MC6 - MOP6601 Adaptive Reinforcement Learning Control for Long-Duration Stability of FEL Operation
Bowen Zhang (Shanghai Advanced Research Institute)

MC6 - MOP6602 Machine Learning-Based Reconstruction of Longitudinal Phase Space for Electron Storage Rings
Dechong Zhu (Institute of High Energy Physics)

MC6 - MOP6603 Machine Learning-Based Orbit Correction in the RCS of CSNS
Xiaohan Lu (Institute of High Energy Physics)

MC6 - MOP6604 Recent Advances in Pyapas-Based High-Level Applications for the High Energy Photon Source
Xiaohan Lu (Institute of High Energy Physics)

MC6 - MOP6605 Longitudinal Phase Space Reconstruction in Synchrotrons Using Deep Learning Method
Yixuan Luo (Tsinghua University)

MC6 - MOP6606 Physics-Informed Autonomous Fault Diagnosis Agent for SSRF Using Large Language Models
Yihao Gong (Shanghai Synchrotron Radiation Facility)

MC6 - MOP6607 Deep Reinforcement Learning for Real-Time Optimization of Free-Electron Lasers
能源 张 *(Shanghai Advanced Research Institute, Chinese Academy of Sciences)*

MC6 - MOP6608 Preliminary control optimization of FELiChEM based on Reinforcement Learning
Xing Yang (University of Science and Technology of China)

MC6 - MOP6609 Design of STCF-BTP pre-injector with Gaussian process-enhanced multi-objective evolutionary algorithm
Haoran Zhang (University of Science and Technology of China)

MC6 - MOP6610 Tuning the Infrared FELO with Trust-Region Bayesian Optimization
Haoran Zhang (University of Science and Technology of China)

MC6 - MOP6611 6D Phase space reconstruction with Multi-Modal Convolutional Neural Network
Masao Kuriki (Hiroshima University)

MC6 - MOP6612 Waveform Pattern Control of the Paint Bump Power Supply for the J-PARC RCS Using Neural Networks
Moe Sugita (Japan Atomic Energy Agency)

MC6 - MOP6613 In-air optical techniques for temporal diagnostics at picosecond resolution
Paarangat Pushkarna (The University of Melbourne)

MC6 - MOP6614 The development of novel beam diagnostics at low MeV for demonstrative proton therapy beamline
Suzanne Sheehy (Australian Nuclear Science and Technology Organisation)

MC6 - MOP6615 Single-shot 3D spatiotemporal visualization of THz electromagnetic wave packet
Yaodan Hu (Huazhong University of Science and Technology)

MC6 - MOP6616 The design and development of the beam measurement system of the UTEF storage ring
hong zhang (Chongqing University)

MC6 - MOP6617 Efficient Slice Energy Spread Measurement Using Two Screens
ShengBin Ye (ShanghaiTech University)

MC6 - MOP6618 Application of AR-HCF-Based Nanosecond Laser in Beam Diagnostics at CSNS
sijie yan (Lanzhou University)

MC6 - MOP6619 Design of beam arrival time monitor for beam-driven plasma wakefield accelerator project
Xiaoyu Liu (Institute of High Energy Physics)

MC6 - MOP6620 Design of a laser-based emittance meter for the H- beam at CSNS
Renjun Yang (Institute of High Energy Physics)

MC6 - MOP6621 Investigation of Diagonal Cut-Plane BPM Performance in the CSNS RCS
Muhammad Abdul Rehman (Institute of High Energy Physics)

MC6 - MOP6622 A study of beam loss data analysis for the high energy photon source
junjie ren (Institute of High Energy Physics, Chinese Academy of Sciences)

MC6 - MOP6623 Software Development of Beam Diagnostics Readout System Based on a Multi-Channel High-Speed Digitizer
Renjun Yang (Institute of High Energy Physics)

MC6 - MOP6624 Optimization of DCCT Magnetic Core Matching using Unsupervised Machine Learning Techniques for High-Precision Beam Current Measurement
Weiling Huang (Institute of High Energy Physics)

MC6 - MOP6625 Preliminary Design and Performance Verification of a High-Power, Wide Dynamic Range BPM Analog Front-End for the CSNS-II RCS
Renjun Yang (Institute of High Energy Physics)

MC6 - MOP6626 Overview and status of beam diagnostics development for the CSNS Upgrade project
Renjun Yang (Institute of High Energy Physics)

MC6 - MOP6627 Development of Analog Electronics for the Beam Loss Monitoring System in the Superconducting Section of the CSNS II Linac
Renjun Yang (Institute of High Energy Physics)

MC6 - MOP6628 Online Performance Evaluation and Anomaly Detection of Beam Position Monitor System at HEPS
Youpeng Xie (Institute of High Energy Physics, Chinese Academy of Sciences)

MC6 - MOP6629 Application of Wall Current Monitor at CSNS Rapid Cycling Synchrotron
Weiwen Chen (Institute of High Energy Physics)

MC6 - MOP6630 Numerical Analysis of Gated IPM at CSNS RCS
Mengyu Liu (Chinese Academy of Sciences)

MC6 - MOP6631 The algorithm design of BPM electronics for the LINAC in CSNS II
Weiwen Chen (Institute of High Energy Physics)

MC6 - MOP6632 Progress of developing the bunch-by-bunch feedback system for the CSNS RCS
Weiwen Chen (Institute of High Energy Physics)

MC6 - MOP6634 Simulation Analysis of X-Ray Pinhole Imaging and Fresnel Zone-Plate-Based Beamline for HALF
Xinru Gao (University of Science and Technology of China)

MC6 - MOP6635 Design and Optimization of the High-Speed, High-Precision Average Beam Current and Lifetime Measurement System
An Wang (University of Science and Technology of China)

MC6 - MOP6636 Oscilloscope-Based TCSPC Longitudinal Beam Diagnostics at HLS-II
MingDong Ma (University of Science and Technology of China)

MC6 - MOP6637 Development of a Simulator for Ring Accelerator Electron Beam Signals
Xinru Gao (University of Science and Technology of China)

MC6 - MOP6638 Development of a Compact Metamaterial Cavity Beam Monitor for Proton Therapy
Yuexin Lu (Huazhong University of Science and Technology)

MC6 - MOP6639 Principle and First Beam Test of Bunch Length Measurement via Rydberg Atom-Based Wireless Sensing at SXFEL
Jian Chen (Shanghai Synchrotron Radiation Facility)

MC6 - MOP6640 The development of new digital BPM signal processor for SSRF
Longwei Lai (Shanghai Advanced Research Institute)

MC6 - MOP6641 Development of a Bunch-by-Bunch BPM Measurement System at SSRF Based on Machine Learning
Jialan Pan (Shanghai Institute of Applied Physics)

MC6 - MOP6642 Development Progress on the Digital BPM Processor for Hefei Advanced Light Facility
Xing Yang (University of Science and Technology of China)

MC6 - MOP6643 Beam Diagnostics System for HALF Storage Ring
Xing Yang (University of Science and Technology of China)

MC6 - MOP6644 THz-driven deflection of ultrashort electron bunch
Chengzhe Wang (University of Science and Technology of China)

MC6 - MOP6645 Progress on Beam Instrumentation for Super Tau Charm Facility
Qing Luo (University of Science and Technology of China)

MC6 - MOP6646 Challenges and Optimization Analysis of the Wire Scanner System for SHINE
Fangzhou Chen (Shanghai Synchrotron Radiation Facility)

MC6 - MOP6647 Development and First Beam Observations of an Ultra-Fast Bunch-by-Bunch X-ray Beam Size Monitor at SuperKEKB
Riku Nomaru (The University of Tokyo)

MC6 - MOP6648 Stretched wire calibration for beam position monitors with 2x Thru de-embedding
Takeshi Toyama (High Energy Accelerator Research Organization)

MC6 - MOP6649 Investigation of RCS Beam Losses Caused by Incomplete Beam Chopping Using Linac Beam Diagnostics at J-PARC
Katsuhiro Moriya (Japan Proton Accelerator Research Complex)

MC6 - MOP6650 Experimental Verification of Energy Dependence in a CNT Wire Monitor for Beam Profile Measurements in the J-PARC Linac
Yong Liu (High Energy Accelerator Research Organization)

MC6 - MOP6651 Results of demonstration experiment of three-dimensional spiral injection scheme for ultra-compact storage rings
Ryota Matsushita (The University of Tokyo)

MC6 - MOP6652 Beam Jitter Analysis utilizing Singular Value Decomposition
Yuji Seimiya (High Energy Accelerator Research Organization)

MC6 - MOP6653 Development of Non-Destructive Emittance Tuning System utilizing Synchrotron Radiation Monitors
Yuji Seimiya (High Energy Accelerator Research Organization)

MC6 - MOP6654 First Demonstration of High-Charge Relativistic Positron Beam Phase-Space Evolution Measurement via Complex Computed Tomography at SuperKEKB
Driss Oumbarek Espinos (High Energy Accelerator Research Organization)

MC6 - MOP6655 PHITS-Based Simulation Study of X-ray Conversion Efficiency for a 10 MeV Electron Accelerator Applied to Large-Scale Irradiation
Junyoung Kang (Korea Atomic Energy Research Institute)

MC6 - MOP6656 Diagnosing the longitudinal phase space of an electron beam using a flat dechirper
MyungHoon Cho (Pohang Accelerator Laboratory)

MC6 - MOP6657 Visible synchrotron radiation diagnostic beamline at the PLS-II storage ring
Woojin Song (Pohang Accelerator Laboratory)

MC6 - MOP6658 Refinement of Tune Monitor in TPS Booster
Chunyi Wu (National Synchrotron Radiation Research Center)

MC6 - MOP6659 A Decade of Research, Development, and System Integration in the Insertion Device Control Systems of the Taiwan Photon Source
Chunyi Wu (National Synchrotron Radiation Research Center)

MC6 - MOP6660 Implementation of IUT24 Control System at the Taiwan Photon Source
Chunyi Wu (National Synchrotron Radiation Research Center)

MC6 - MOP6661 Evolution of the TPS Timing System for Accelerator and Time-Resolved Applications
Chunyi Wu (National Synchrotron Radiation Research Center)

MC6 - MOP6662 Development of an MTCA.4-based Digital Low-level RF Control Solution for the TLS Linac System
Chunyi Wu (National Synchrotron Radiation Research Center)

MC6 - MOP6663 Preliminary Study of a Bunch-by-Bunch Monitoring System for the TPS Booster Synchrotron
Chunyi Wu (National Synchrotron Radiation Research Center)

MC6 - MOP6664 Implementation of a Phase Shifter for Filling Pattern Measurement at TPS
Chunyi Wu (National Synchrotron Radiation Research Center)

MC6 - MOP6665 Enhancing the Accuracy of Phase Measurement at TPS Through I/Q Error Correction
Chunyi Wu (National Synchrotron Radiation Research Center)

MC6 - MOP6666 Longitudinal Beam Diagnostics with a Streak Camera at Taiwan Photon Source
Chunyi Wu (National Synchrotron Radiation Research Center)

MC6 - MOP6667 Implementation of Fast Beam-Based Alignment at the Taiwan Photon Source
Chunyi Wu (National Synchrotron Radiation Research Center)

MC6 - MOP6668 TDC-Based Phase Measurement for the Radio Frequency System of a Synchrotron Radiation Accelerator
xiao qu (University of Science and Technology of China)

MC6 - MOP6669 Distributed Control of Large-Scale Magnet Power Supplies in the HALF
Fang Li (University of Science and Technology of China)

MC6 - MOP6670 Development of the Beam Permit System for the RAON Accelerator
eunsang kwon (Institute for Basic Science)

MC6 - MOP6671 Design of Post-mortem Analysis System for Storage Ring RF in PLS-II
Mujin Lee (Pohang Accelerator Laboratory)

MC6 - MOP6672 Migration of Control System Operator Interfaces from EDM to Phoebus OPI at TPS
Chunyi Wu (National Synchrotron Radiation Research Center)

MC6 - MOP6673 A Sliding Mode Control Approach for Photon Beam Stability at the Siam Photon Source
Thakonwat Chanwattana (Synchrotron Light Research Institute)

MC6 - MOP6674 SOFB and MOFB system at HEPS
Yuanyuan Wei (Institute of High Energy Physics)

MC6 - MOP6675 Development and preliminary testing of a digital feedback system
liang xu (Institute of High Energy Physics, Chinese Academy of Sciences)

MC6 - MOP6676 Commissioning of HEPS fast orbit feedback system
Xiyang Huang (Chinese Academy of Sciences)

MC6 - MOP6677 Preliminary Design of Beam Feedback Systems for the Shenzhen Superconducting Soft X-ray Free Electron Laser
Zhiyuan Zhang (Institute of Advanced Light Source Facilities, Shenzhen)

MC6 - MOP6678 Development of an MTCA.4-Based High-Speed Data Acquisition System for Gas Monitor Detectors at S3FEL
Zhiyuan Zhang (Institute of Advanced Light Source Facilities, Shenzhen)

MC6 - MOP6679 LLRF Prototype Design for the 1.3 GHz Cryomodule of the Shenzhen Superconducting Soft X-ray FEL
Zhiyuan Zhang (Institute of Advanced Light Source Facilities, Shenzhen)

MC6 - MOP6680 Digital LLRF Control System for a High-Repetition-Rate Superconducting Linac
Zhiyuan Zhang (Institute of Advanced Light Source Facilities, Shenzhen)

MC6 - MOP6682 R&D of the Bunch-by-Bunch Feedback Processor Prototype for HALF
Xing Yang (University of Science and Technology of China)

MC6 - MOP6683 Research and Development of Fast Orbit Feedback System at HALF storage ring
Xing Yang (University of Science and Technology of China)

MC6 - MOP6684 Development of a MicroTCA.4-based feedback system for environmental phase compensation of the beam-monitor reference at J-PARC LINAC
Yong Liu (High Energy Accelerator Research Organization)

MC6 - MOP6685 Integrating FPGA into EPICS for On-the-fly Scan Control at the TPS 35A Beamline
Cheng-Yuan Lin (National Synchrotron Radiation Research Center)

MC6 - MOP6686 The beam loss monitoring system of STCF
shengyuan wang (University of Science and Technology of China)

MC6 - MOP6687 Overview of the Accelerator Operation at China Spallation Neutron Source Since Its Official Opening
Yuwen An (Institute of High Energy Physics)

MC6 - MOP6688 Impact of low momentum compaction optics on the TPS-II storage ring lattice
Nuan-Ya Huang (National Synchrotron Radiation Research Center)

MC6 - MOP6689 Recent Upgrade and Operational Experiences of the Vibration Monitoring System at TPS
Keng-Hao Hsu (National Synchrotron Radiation Research Center)

MC6 - MOP6690 Commissioning and Beam Dynamics Analysis of Low-Energy Injection Rescue Mode for the TPS Linac
Wei-Yu Lin (National Synchrotron Radiation Research Center)

MC6 - MOP6691 Implementation of Waveform Monitoring and Fault Diagnosis for Injection System Pulsed Magnets at Taiwan Photon Source
Wei-Yu Lin (National Synchrotron Radiation Research Center)

MC6 - MOP6692 Enhancement of Equipment Protection and Automated Interlock Systems in the KOMAC Proton Linac
Young-Gi Song (Korea Multi-purpose Accelerator Complex)

MC6 - MOP6694 LACCS: The High-Performance Integrated Intelligent Control System in the HIAF
Jie Liu (Institute of Modern Physics, Chinese Academy of Sciences)

MC6 - MOP6695 Sub-5-fs synchronization of mode-locked laser with 1.3 GHz RF oscillator
Bowei Wu (Shanghai Advanced Research Institute)

MC6 - MOP6696 Ground-breaking Photon Beam Position Monitor (XBPM) from Power Density Sensing of High Power X-ray Beams
Yaw-Ren Eugene Tan (Australian Nuclear Science and Technology Organisation)

MC6 - MOP6697 Neural Network-Based Amplitude Feedforward Control Algorithm for LLRF Systems
Xiaofang Hu (University of Science and Technology of China)

MC6 - MOP6698 Design and Testing of a Universal Embedded Feedback Controller for RF Cavities
Ashish Sharma (Indian Institute of Technology Delhi)

MC6 - MOP6700 Compreshensive integration and innovation on the 1.5 Ghz srf harmonic cavity control system at NSRRC
Ming-Chyuan Lin (National Synchrotron Radiation Research Center)

MC6 - MOP6701 Application of Pyapas in PWFA
Haisheng Xu (Institute of High Energy Physics)

MC6 - MOP6702 Development of SHINE Linac Physics Commissioning Software
JUNJIE GUO (Shanghai Advanced Research Institute, Chinese Academy of Sciences)

MC6 - MOP6703 Machine-Learning Surrogate Modeling of the RAON LEBT Beamline
Chong Shik Park (Korea University Sejong Campus)

MC7 - MOP7001 Upgrade of the arcing suppression system for the waveguides in the European XFEL
Michael Bousonville (Deutsches Elektronen-Synchrotron DESY)

MC7 - MOP7002 Experiment Design for Beam-based Characterization of a sub-THz Double Bend Mode Converter
Max Joseph Kellermeier (Deutsches Elektronen-Synchrotron DESY)

MC7 - MOP7003 Low-Level RF Tests of a 3D-Printed 704.4 MHz CH Cavity
Eduard Boos (GSI Helmholtz Centre for Heavy Ion Research)

MC7 - MOP7004 R&D on efficient ultra-high frequency RFQ structures
Stefan Wunderlich (GSI Helmholtz Centre for Heavy Ion Research)

MC7 - MOP7006 Study of multipactor discharge in the x-band resanotor for the asterix project
Maryam Mostajeran (Yazd University)

MC7 - MOP7007 Elettra cavity HOM and dedicated dampers design
Nuaman Shafqat (Elettra-Sincrotrone Trieste S.C.p.A.)

MC7 - MOP7008 The TEX facility upgrade at INFN-LNF
Xianghe Fang (Istituto Nazionale di Fisica Nucleare, Laboratori Nazionali di Frascati)

MC7 - MOP7009 Characterization of the Four-Quadrant X-Band Cavity Prototype for the ASTERIX Project.
Zhicheng Huang (University of Science and Technology of China)

MC7 - MOP7010 Transient beam loading in the double RF system of ALBA II
Pol Solans (ALBA Synchrotron (Spain))

MC7 - MOP7011 SSPA efficiency improvement studies at ALBA in the framework of the RF2.0 project
Pol Solans (ALBA Synchrotron (Spain))

MC7 - MOP7012 Power couplers conditioning and multipacting simulations for the ESS- Bilbao ARGITU RFQ
Nagore Garmendia (ESS Bilbao)

MC7 - MOP7013 RF Design and 3D Modeling of a 3-GHz High-Energy Linac for the FCC-ee Injector
Adnan Kurtulus (European Organization for Nuclear Research)

MC7 - MOP7014 Design and Optimization of RF Structures for the CLIC Main Beam Injector Linacs
Adnan Kurtulus (European Organization for Nuclear Research)

MC7 - MOP7015 Multipacting in the 150 MHz Flat-Top Cavity of HIPA: Simulation, Verification, and Mitigation Strategies
Thomas Lucas (Paul Scherrer Institute)

MC7 - MOP7016 An alternative HOM load design for the EU HOM damped cavity
Micha Dehler (Paul Scherrer Institute)

MC7 - MOP7017 RF properties of non evaporable getter coatings in the sub THz range
Micha Dehler (Paul Scherrer Institute)

MC7 - MOP7018 X Band Linac Machine Design for Very High Energy Electron Therapy
Euan Smith (University of Manchester)

MC7 - MOP7019 Optimized Low-Cost, High-Efficiency Cavity Design for 100 - 500 MeV Proton Linacs
Jean-Baptiste Lagrange (Science and Technology Facilities Council)

MC7 - MOP7020 Virtual observers and anomalies detections for the SPIRAL2 superconducting cavities
Adnan Ghribi (Grand Accélérateur Nat. d'Ions Lourds)

MC7 - MOP7021 In-situ XPS study of Nb surface during mid-T bake with plasma treatment for SRF cavities
Chahinez Boutelaa (Centre National de la Recherche Scientifique)

MC7 - MOP7022 Dielectric Characterization of Beam Line Absorber Samples for Next-Generation High Intensity Electron Beam SRF Accelerators
Axel Perez Ruiz (Accelerators & Cryogenic Systems)

MC7 - MOP7023 Current status and progress of design and commissioning of HELIAC cavities
Alexey Gunya (GSI Helmholtz Centre for Heavy Ion Research)

MC7 - MOP7024 Vertical Testing of the Waveguide-HOM-Damped 1.5 GHz 4-Cell Prototype Cavities for the VSR-Demo Project
Hans-Walter Glock (Helmholtz-Zentrum Berlin für Materialien und Energie)

MC7 - MOP7025 Mid-T-Baking of SRF Cavities Driven by RF Power
René Schöder (Helmholtz-Zentrum Berlin für Materialien und Energie)

MC7 - MOP7026 Quantities of Interest Statistics from Inhomogeneous Coating Thickness Distributions on SRF Cavities
Aaron Gobeyn (Technical University of Darmstadt)

MC7 - MOP7027 Optimized Design of a Fast Reactive Tuner for 1.3 GHz TESLA Cavities
Ricardo Monroy-Villa (Johannes Gutenberg University Mainz)

MC7 - MOP7028 Successfull Refurbishment of TESLA Cavities for MESA
Paul Plattner (Johannes Gutenberg University Mainz)

MC7 - MOP7029 SRF2027 Padua - 23rd International Conference on RF Superconductivity
Cristian Pira (Istituto Nazionale di Fisica Nucleare)

MC7 - MOP7030 Nb3Sn on Cu SRF cavities R&D at INFN LNL
Cristian Pira (Istituto Nazionale di Fisica Nucleare)

MC7 - MOP7031 Design and Multiphysics analysis of $\hat{I}^2$=0.18 half wave resonator for IFMIF-DONES accelerator.
Francesco Grespan (Istituto Nazionale di Fisica Nucleare)

MC7 - MOP7032 Advances in Plasma Processing for Medium- and High-Beta Cavities of the ESS Linac
Elisa Del Core (Istituto Nazionale di Fisica Nucleare, Laboratori Acceleratori e Superconduttività Applicata)

MC7 - MOP7033 Preliminary Studies and Path Forward for Plasma Processing Applied to PIP-II LB650 Cavities
Elisa Del Core (Istituto Nazionale di Fisica Nucleare, Laboratori Acceleratori e Superconduttività Applicata)

MC7 - MOP7034 Status of the high q-high g R&D activities on SRF cavities at infn LASA
Laura Monaco (Istituto Nazionale di Fisica Nucleare, Laboratori Acceleratori e Superconduttività Applicata)

MC7 - MOP7035 R&D Activities in View of PIP-II LB650 Cavity Production
Michele Bertucci (Istituto Nazionale di Fisica Nucleare)

MC7 - MOP7036 SRF Cavity Detuning Characterization by Continuous Wavelet Transform: A Time-Frequency Analysis.
Joyce Samantha Romero Jiménez (University of the Basque Country)

MC7 - MOP7037 Additional installation effort for the 3MW readiness at ESS
Artur Krawczyk (European Spallation Source)

MC7 - MOP7038 Operational experience with the Cold Tuning System for ESS superconducting cavities
Artur Krawczyk (European Spallation Source)

MC7 - MOP7039 ESS SRF Cavity Preparation for Beam on Dump 2/Beam on Target phase
Agnieszka Zwozniak (European Spallation Source)

MC7 - MOP7040 ESS SCL fast tuning system characterization during LINAC commissioning
Agnieszka Zwozniak (European Spallation Source)

MC7 - MOP7041 HiPIMS Nb Thin Films for SRF Cavities
Carlota Pereira Carlos (European Organization for Nuclear Research)

MC7 - MOP7043 The detail design of a twin-axial type FE-FRT for SASE
Hongping Jiang (Lancaster University)

MC7 - MOP7047 Results of 1.3 GHz copper cavity coated with Nb3Sn thin film deposition by PVD magnetron
Reza Valizadeh (Science and Technology Facilities Council)

MC7 - MOP7048 Uncertainty Analysis of Time Constant Measurements in SRF Cavity Testing
Matthew Jones (ASTeC, STFC Daresbury Laboratory)

MC7 - MOP7049 1.6 MW, 144 MHz Solid State Power Amplifier for ELSA electron linac
Anne-Sophie Chauchat (CEA DAM île-de-France)

MC7 - MOP7050 Conceptual Design of a 0.2 MW Pulsed 140 GHz Gyroklystron Amplifier for Accelerator Applications
Anton Malygin (Karlsruhe Institute of Technology)

MC7 - MOP7051 Influence of wall plug efficiency from solid state power amplifier for particle accelerators on total costs of ownership
Marcus Lau (TRUMPF Huettinger GmbH)

MC7 - MOP7052 Operational Experience on a commercial Solid State power Amplifier with integrated LLRF unit
Rocco Paparella (Istituto Nazionale di Fisica Nucleare)

MC7 - MOP7053 Design of a 750 W 1300 MHz RF Balanced Solid-State Power Amplifier Utilizing an Impedance-transforming Brach-line Couple Output Combiner
William Leijenaar (Leijenaar Electronics)

MC7 - MOP7054 LIPAc RF system : on the versatile use of photomultipliers
Jean-Pierre Adam (Fusion for Energy)

MC7 - MOP7055 RF power transients at injection energy in the FCC high-energy booster
Lina VALLE (European Organization for Nuclear Research)

MC7 - MOP7056 The 10 MHz RF system upgrade in the PS
Mathieu Taquet (European Organization for Nuclear Research)

MC7 - MOP7057 Permanent magnet solenoid for a high-efficiency klystron
Nuria Catalan-Lasheras (European Organization for Nuclear Research)

MC7 - MOP7058 Magnets development for the ESRF-EBS injection upgrade
Chamseddine Benabderrahmane (European Synchrotron Radiation Facility)

MC7 - MOP7059 The SOLEIL II magnets
Abderraouf OUAZIB (Synchrotron soleil)

MC7 - MOP7060 Conceptual Electromagnetic Design of an Unconventional Hadron Stopper Magnet
Vittorio Ferrentino (University of Naples Federico II)

MC7 - MOP7061 Elettra 2.0 magnets and magnetic measurement results
Davide Castronovo (Elettra-Sincrotrone Trieste S.C.p.A.)

MC7 - MOP7062 Development and commissioning of the magnetic measurement systems for Elettra 2.0
Domenico Caiazza (Elettra-Sincrotrone Trieste S.C.p.A.)

MC7 - MOP7063 The New Calibration System for Magnetic Field Probes at the LNF-INFN Magnetic Measurement Laboratory
Antonio Trigilio (Istituto Nazionale di Fisica Nucleare)

MC7 - MOP7064 Magnet characterization and installation verification for the ELI-GBS LINAC
Cornel Dinu Cirdei (Horia Hulubei National Institute for R and D in Physics and Nuclear Engineering)

MC7 - MOP7065 Status of magnets for ALBA II project: design, prototyping and production plans
Jordi Marcos (ALBA Synchrotron (Spain))

MC7 - MOP7066 Prototyping of a tunable permanent magnet quadrupole
Jordi Marcos (ALBA Synchrotron (Spain))

MC7 - MOP7068 Conceptual Magnet Designs for MAX 4U
Henrique de Oliveira Caiafa Duarte (MAX IV Laboratory)

MC7 - MOP7069 Absolute pulsed-mode, long-duration integral field instrumentation and measurements and for CERN accelerator magnets using a multi-sensor approach.
Abhishek Ganesh (European Organization for Nuclear Research)

MC7 - MOP7070 Hysteresis Modeling and Dynamic Behavior of SPS Dipoles
Alberto Bellelli (European Organization for Nuclear Research)

MC7 - MOP7071 Prototype Development and Testing of a Compact HTS Wiggler for Synchrotron Light Sources
Lorenzo Bortot (European Synchrotron Radiation Facility)

MC7 - MOP7072 Transient Electromagnetic Modeling of No-Insulation HTS Coils Using a MEMEP-Based Lumped-Circuit Framework
Lorenzo BORTOT (European Synchrotron Radiation Facility)

MC7 - MOP7073 Repair and improvement of the superconducting magnets of the S3 spectrometer at GANIL
Antoine WAGRET QUATROMME (Grand Accélérateur National d'Ions Lourds)

MC7 - MOP7074 FCC-ee HTS CCT magnet design proposal for the final focus quadrupole and its cooled beam pipe
Matthieu Marchand (Laboratoire d'Annecy de Physique des Particules)

MC7 - MOP7075 Design, Manufacturing and Testing of the two superconducting SUPERBEND magnets for the upgrade of the Swiss Light Source (SLS) facility at the Paul Sherer Institute (PSI)
Raphael PASQUET (SIGMAPHI)

MC7 - MOP7076 Design, Manufacturing and Testing by SIGMAPHI of the superconducting coils for the cyclotron C400 IONS of Normandy Hadrontherapy
Frédérick FOREST (SIGMAPHI)

MC7 - MOP7077 Design, Manufacturing and Testing by SIGMAPHI of the Pulsed Septa Magnets for the Booster To Accumulator Transfer Line Septa magnets in construction at Lawrence Berkeley National Laboratory (LBNL) for the Advanced Light Source Upgrade project (ALS-U)
Frédérick FOREST (SIGMAPHI)

MC7 - MOP7078 Design, Manufacturing and Testing by SIGMAPHI of the new P2 superconducting intended for the P2 experimental facility at the upcoming MESA accelerator in Mainz
Frédérick FOREST (SIGMAPHI)

MC7 - MOP7079 Superbends for diffraction-limited light sources: review and recent advances
Marco Modica (Elettra-Sincrotrone Trieste S.C.p.A.)

MC7 - MOP7080 Engineering Design of the HTS Solenoids for the 6D Cooling Demonstrator and RF Test Facility for the Muon Collider
Giuseppe Scarantino (Istituto Nazionale di Fisica Nucleare, Laboratori Acceleratori e Superconduttività Applicata)

MC7 - MOP7081 The Canted Cosine Theta HTS sextupole demonstrator of FCC-ee
Michael Koratzinos (European Organization for Nuclear Research)

MC7 - MOP7082 The first fully automated analysis of the Hardware Commissioning tests for superconducting circuits at the LHC
Agnieszka Chmielinska (European Organization for Nuclear Research)

MC7 - MOP7083 Field Quality of MQXFB Quadrupoles for HL-LHC
Matthias Bonora-Tam (European Organization for Nuclear Research)

MC7 - MOP7084 Experimental study of beam-induced damage in Nb_3Sn sample coils pre-irradiated up to 30 MGy
Delphine Domange (European Organization for Nuclear Research)

MC7 - MOP7085 Operation of the KARA Booster in Storage-Ring mode for Accelerator Studies and System Development
Akira Mochihashi (Karlsruhe Institute of Technology)

MC7 - MOP7086 Improving Helium Sustainability: Current Performance and Upgrade of the ALBA Helium Liquefaction Facility
Marcos Quispe (ALBA Synchrotron (Spain))

MC7 - MOP7087 Large-scale helium refrigeration cryogenic systems costing for superconducting particle accelerators
Laurent Delprat (European Organization for Nuclear Research)

MC7 - MOP7088 Numerical-Experimental Comparative Research of Titanium Foil Grades for Accelerator Output Windows
Albert Hovhannisyan (Center for the Advancement of Natural Discoveries using Light Emission)

MC7 - MOP7089 SEY Reduction Using Ultrathin TiN/NbN Multilayers for Accelerator Applications
Gaël Sattonnay (Université Paris-Saclay, CNRS/IN2P3, IJCLab)

MC7 - MOP7090 Simulation of Compton-electron-induced desorption in FCC-ee using a high-energy electron beam from the PHIL facility
SUHEYLA BILGEN (Centre National de la Recherche Scientifique)

MC7 - MOP7091 Beam Measurements with Cryoinserts in SIS18
Lars Bozyk (GSI Helmholtz Centre for Heavy Ion Research)

MC7 - MOP7092 Subject: The Vacuum System Design of the RF Cavity Section in the Storage Ring of the Iranian Light Source Facility
Saeedeh Afhami (Iranian Light Source Facility)

MC7 - MOP7093 Subject: The Vacuum System Design of the RF Cavity Section in the Booster of the Iranian Light Source Facility
Saeedeh Afhami (Iranian Light Source Facility)

MC7 - MOP7094 Vacuum Facility at LNF-INFN for Present and Future Accelerators
Luisa Spallino (Istituto Nazionale di Fisica Nucleare, Laboratori Nazionali di Frascati)

MC7 - MOP7095 Particulate study of NEG pumps irradiated in the CEBAF tunnel
Dario Nicolosi (SAES Getters S.p.A.)

MC7 - MOP7096 Status of the Vacuum System Design and Prototyping for the ALBA II Storage Ring Upgrade
Ricardo Parise (ALBA Synchrotron (Spain))

MC7 - MOP7097 Remote Clamp RC160T For Restricted Access Environments
inigo Arizaga Gurruchaga (Tekniker)

MC7 - MOP7098 The beam stops for the ESS superconducting linac
Artur Gevorgyan (European Spallation Source)

MC7 - MOP7099 Vacuum Design and Pressure Modelling of AWAKE Run-2c Beamlines
Maria Carmen Giordano (European Organization for Nuclear Research)

MC7 - MOP7100 Vacuum simulations for HL-LHC Long Straight Sections
Alessio Galloro (European Organization for Nuclear Research)

MC7 - MOP7101 Review on a-C Coatings for Particle Accelerators: Film Properties and Coating Technologies
Pedro Costa Pinto (European Organization for Nuclear Research)

MC7 - MOP7102 Functionalised a-C Coatings to Reduce SEY and Control Surface Resistance for HL-LHC MKI Beam-Pipe Ceramic Supports
Pedro Costa Pinto (European Organization for Nuclear Research)

MC7 - MOP7103 Towards Laser Roughening of Inner Beam Screen Surfaces for Electron Cloud Mitigation in Standalone Magnets around IP1 and IP5 of the LHC
Marcel Himmerlich (European Organization for Nuclear Research)

MC7 - MOP7104 New Warm Vacuum Interconnection Design for HL-LHC
Tomas Silva (European Organization for Nuclear Research)

MC7 - MOP7105 Latest Advancements of the Test-Particle Monte Carlo Code MolFlow+
Petar Trifunovic (European Organization for Nuclear Research)

MC7 - MOP7106 Amorphous Carbon Thin Films for Electron Cloud Mitigation in the LHC Arcs: Developments Towards In-situ Implementation
Valentine PETIT (European Organization for Nuclear Research)

MC7 - MOP7107 SMAUG experiments at CERN's HiRadMat facility for the study of materials used for particle beam windows
Anthony Harrison (European Organization for Nuclear Research)

MC7 - MOP7108 Vacuum Tolerance Limits for LSS7: Balancing Performance and Radiation Protection
Marios Kyprianidis (European Organization for Nuclear Research)

MC7 - MOP7109 Quality Assurance For The HL-LHC Beam Screen Production
Dominika Sadowska (European Organization for Nuclear Research)

MC7 - MOP7110 Production of the HL-LHC experimental beam vacuum chambers
Josef Sestak (European Organization for Nuclear Research)

MC7 - MOP7111 Towards a Low Impedance Vacuum System for the FCC-ee
Patrick Krkotic (European Organization for Nuclear Research)

MC7 - MOP7112 Electromagnetic Resonance Behaviour of LHC Vacuum Interconnect Modules
Patrick Krkotic (European Organization for Nuclear Research)

MC7 - MOP7113 Swiss Light Source 2.0 Vacuum System Conditioning and First Year of Operation
Romain Ganter (Paul Scherrer Institute)

MC7 - MOP7114 Investigation in the resistivity of non-evaporable getter coatings
Eleni Marshall (Science and Technology Facilities Council)

MC7 - MOP7115 Development of undulator assembly optimization at the ESRF
Gael Le Bec (European Synchrotron Radiation Facility)

MC7 - MOP7116 Hybrid undulators manufacturing at ESRF-EBS
Gael Le Bec (European Synchrotron Radiation Facility)

MC7 - MOP7117 Design, fabrication and characterization of the magnet arrays of an asymmetric magnet pole undulator
Saif Khan (Synchrotron soleil)

MC7 - MOP7118 Experimental study of wire sag in pulsed wire magnetic measurement system for undulator
Saif Khan (Synchrotron soleil)

MC7 - MOP7119 Tailoring Undulators to Exploit TRIBs Operation
Ed Rial (Helmholtz-Zentrum Berlin für Materialien und Energie)

MC7 - MOP7120 KIT Superconducting Undulator and Magnet Developments - overview and state of the art R&D on HTS technology
Bennet Krasch (Karlsruhe Institute of Technology)

MC7 - MOP7121 In-Vacuum Undulators for BESSY II
Atoosa Meseck (Johannes Gutenberg University Mainz)

MC7 - MOP7122 The SUNDAE2 Measurement System at European XFEL
Thomas Schmidt (European X-Ray Free-Electron Laser)

MC7 - MOP7123 A Hall-probe calibration setup in the temperature range from 300 K to 4 K at European XFEL
Mikhail Yakopov (European X-Ray Free-Electron Laser)

MC7 - MOP7124 Overview of Superconducting Undulator Developments at the European XFEL
Sara Casalbuoni (European X-Ray Free-Electron Laser)

MC7 - MOP7125 First results from the SUNDAE1 tests stand at European XFEL
Ahmed Elghandour (European X-Ray Free-Electron Laser)

MC7 - MOP7126 In-Vacuum Pulsed Wire Technique
Michael Ronniger (European X-Ray Free-Electron Laser)

MC7 - MOP7127 Progress of the magnetic measurement bench for pulsed magnets based on a modified vibrating wire technique
Michele Carlà (ALBA Synchrotron (Spain))

MC7 - MOP7128 Development and characterization of the Double Dipole Kicker prototype at ALBA
Francis Perez (ALBA Synchrotron (Spain))

MC7 - MOP7129 Initial Design of a Lumped Inductance Kicker for the FCC-ee
Grigorios Sergentanis (European Organization for Nuclear Research)

MC7 - MOP7130 High-Voltage Coils Optimization for the LHC Beam Dump Dilutor Kicker Magnets
Vasco Gomes Namora (European Organization for Nuclear Research)

MC7 - MOP7131 Design and operation of SLS2 thin septum
Sladana Dordevic (Paul Scherrer Institute)

MC7 - MOP7132 Evaluation of Error Propagation in the First-Order Geodetic Network of the FCC Tunnel Using Topographical Techniques
Roberto Fernandez Bautista (European Organization for Nuclear Research)

MC7 - MOP7133 Analysis of remaining fatigue life of edge-welded bellows for LHC collimators
Tristan Calvet (European Organization for Nuclear Research)

MC7 - MOP7134 ISOLDE Beam Dumps Replacement and Sustainability (IBDRS) project: A challenging consolidation, from buried dumps to flexible access
Tristan Calvet (European Organization for Nuclear Research)

MC7 - MOP7135 Conceptual Design and Development of the New ISOLDE Beam Dumps at CERN
Tristan Calvet (European Organization for Nuclear Research)

MC7 - MOP7136 Upgrade of the SPS Target External Dump for high intensity operation in CERN's North Area
Thibaut Parmentier (European Organization for Nuclear Research)

MC7 - MOP7137 Conceptual Comparison of Liquid Lead Flow Configurations for a Muon Collider
Thomas Banks (European Organization for Nuclear Research)

MC7 - MOP7138 Target Complex Integration For A High Intensity Beam Dump Facility In The North Experimental Area At CERN
Thomas Banks (European Organization for Nuclear Research)

MC7 - MOP7139 Comparative Conceptual Designs of Liquid Lead Absorbers for the FCC-ee Beamstrahlung Dump
Thomas Banks (European Organization for Nuclear Research)

MC7 - MOP7140 Target Design Considerations for LINAC-based Astatine-211 Production
Tania de Melo Mendonca (Tera-care foundation)

MC7 - MOP7141 Development of a High-Temperature Electron Beam Test Stand for Thermal Studies of the TATTOOS target at PSI
Rémi Martinie (Paul Scherrer Institute)

MC7 - MOP7142 THE CYREN PROJECT: REFURBISHMENT OF THE GANIL CYCLOTRONS FACILITY
Pascal Anger (Grand Accélérateur Nat. d'Ions Lourds)

MC7 - MOP7143 Updates on the sustainability improvements of the Karlsruhe Research Accelerator
Julian Gethmann (Karlsruhe Institute of Technology)

MC7 - MOP7144 Elettra 2.0 - Status of the Removal & Installation activities
Roberto Visintini (Elettra-Sincrotrone Trieste S.C.p.A.)

MC7 - MOP7145 EURO-LABS - Integrating European Research Infrastructures For Physical Sciences
Ilias Efthymiopoulos (European Organization for Nuclear Research)

MC7 - MOP7146 Unifying efforts in electrical safety for an accelerator complex
Cornelia Marion Schmitt (European Organization for Nuclear Research)

MC7 - MOP7147 Infrastructure Worksite Coordination : Lessons Learned from the HL-LHC case study
Thomas Bauler (European Organization for Nuclear Research)

MC7 - MOP7148 Degassing of distilled water-cooling circuits and affected copper-walled structures
Richard Kan (Paul Scherrer Institute)

MC7 - MOP7149 The IDROGEN system a sub pico second white Rabbit node
daniel charlet (Centre National de la Recherche Scientifique)

MC7 - MOP7150 Modelling and Experimental Studies of a X-Band Window for Mobile Linacs
Yoann Rozier (Epsyl)

MC7 - MOP7151 Challenges in the Development of the SIS100 Electrostatic Extraction System
Marc Petryk (GSI Helmholtz Centre for Heavy Ion Research)

MC7 - MOP7152 Development of a Guanella-type 4:1 Impedance Transformer for the Future SIS100 Broadband Cavity Systems
Christoph Julien Wegmann (Technical University of Darmstadt)

MC7 - MOP7153 RF window TiN coating characterization
Matteo Campostrini (Istituto Nazionale di Fisica Nucleare, Laboratori Nazionali di Legnaro)

MC7 - MOP7154 RF Power Couplers for IFMIF-DONES RFQ
Luigi Ferrari (Istituto Nazionale di Fisica Nucleare)

MC7 - MOP7155 Status of the Cryomodule tests as a part of Polish In-Kind contribution to the European Spallation Source (ESS) realized by IFJ PAN
Jacek Swierblewski (Institute of Nuclear Physics, Polish Academy of Sciences)

MC7 - MOP7156 FEA-CFD Numerical Approaches in the Design of the Fast Periodic Shutter for FAXTOR-BL31 at ALBA
Marcos Quispe (ALBA Synchrotron (Spain))

MC7 - MOP7157 Mechanical and Material Interrogation of Accelerator Components at the European Spallation Source ESS
Andrea Bignami (European Spallation Source)

MC7 - MOP7158 Evaluation of low-cost, multimodal-sensor, data acquisition systems for ad-hoc applications in particle accelerators
Patrick Ellison (European Organization for Nuclear Research)

MC7 - MOP7159 Ethernet-enabled data acquisiton and supervision systems for the hl-lhc quench protection system
Pau Jordan Oliveras Cejas (European Organization for Nuclear Research)

MC7 - MOP7160 Electro-Magnetic Separator Topology Concept for FCC-ee
Lucien Porta (European Organization for Nuclear Research)

MC7 - MOP7161 FGC Private Network: low-latency communication standard for the future controls of power converters at CERN
Clément Zrounba (European Organization for Nuclear Research)

MC7 - MOP7162 Current status of bessyiii magnet design
Jens Voelker (Helmholtz-Zentrum Berlin für Materialien und Energie)

MC7 - MOP7163 Field-Quality Characterization of a Tunable Permanent-Magnet Quadrupole Using Rotating-Coil Measurements
Gabor Anda (HUN-REN Centre for Energy Research)

MC7 - MOP7164 Design overview and project status of the p.m. gradient dipole at MAX IV
Aashoo Sharma (MAX IV Laboratory)

MC7 - MOP7165 Results from the HEPTO Combined Function Permanent Magnet
Alex Hinton (Science and Technology Facilities Council)

MC7 - MOP7166 Advances in magnetic field quality for ZEPTO tunable permanent magnet quadrupole
Alexander Bainbridge (Science and Technology Facilities Council)

MC7 - MOP7167 Material-Extrusion Additive Manufacturing of Pure Copper Components for Accelerator Vacuum Systems
Albert Hovhannisyan (Center for the Advancement of Natural Discoveries using Light Emission)

MC7 - MOP7168 High Voltage Electric dipole conditioning for the Super spectrometer separator at GANIL
Franck Esnault (Grand Accélérateur Nat. d'Ions Lourds)

MC7 - MOP7169 Advancing Ultra-High-Frequency Accelerators through Metal Additive Manufacturing
Chuan Zhang (GSI Helmholtz Centre for Heavy Ion Research)

MC7 - MOP7170 Measurement of Dielectric Properties of 3D Printed Polymer-Based Materials for RF Applications at 500 MHz
Philipp Müller (Goethe University Frankfurt)

MC7 - MOP7171 Experimental Validation of an Additively Manufactured 1.3 GHz Radio Frequency Cavity
Winter Hermann (Universität der Bundeswehr München)

MC7 - MOP7172 Post-processing of additively manufactured pure copper RFQ elements
Tobia Romano (Politecnico di Milano)

MC7 - MOP7173 Optimized Plasma Electrolytic Polishing for Cu 1.3 GHz SRF Cavities
Cristian Pira (Istituto Nazionale di Fisica Nucleare)

MC7 - MOP7174 Bent crystals as multifunctional elements in particle accelerators
Marco Romagnoni (University of Ferrara)

MC7 - MOP7175 Large Scale Production of Amorphous Carbon Coatings for The New Beam Screens of The HL-LHC Project
Bernard Henrist (European Organization for Nuclear Research)

MC7 - MOP7176 Advancing Accelerator Components Design through Additive Manufacturing of Metal and Ceramic Structures
Sankar Raj Rajendran (ISIS Neutron and Muon Source)

MC7 - MOP7177 Design and Integration of a Passive Caesium Delivery System for the ISIS RF H- Ion Source
Sankar Raj Rajendran (ISIS Neutron and Muon Source)

MC7 - MOP7178 A framework for environmentally conscious design of particle accelerators
Alexander Herrod (Ion Beam Applications (Belgium))

MC7 - MOP7179 Power Balance of the PERLE Energy Recovery Linac
Frédéric Bouly (Laboratoire de Physique Subatomique et de Cosmologie)

MC7 - MOP7180 Cooling-Tower Technologies for the IFMIF-DONES Heat Rejection System: Technical and Climate-Driven Considerations
Ignacio Sampedro (IFMIF-DONES Spain Consortium)

MC7 - MOP7181 Energy Efficiency in the CERN Experimental Area North
Thomas Zickler (European Organization for Nuclear Research)

MC7 - MOP7182 Metal Additive manufacturing for Accelerator Technologies (MAAT project at INFN)
Oscar Azzolini (Istituto Nazionale di Fisica Nucleare, Laboratori Nazionali di Legnaro)

MC7 - MOP7183 Operational Sequencer at the European Spallation Source
Wojciech Soroka (S2Innovation Sp z o. o. [Ltd.])

MC7 - MOP7184 Enhancing Fusion Materials Research: Information and PLM Strategies at IFMIF-DONES
Antonio Moreno Cortes (Consorcio IFMIF-DONES España)

MC7 - MOP7185 Technological innovation for next-generation particle accelerators: key outcomes of the I.FAST project
Toms Torims (European Organization for Nuclear Research)

MC7 - MOP7186 CAD Integration for the PETRA IV Project
Benno List (Deutsches Elektronen-Synchrotron DESY)

MC7 - MOP7187 From lattice to engineering design: a rapid, reliable development cycle
Benno List (Deutsches Elektronen-Synchrotron DESY)

MC7 - MOP7188 Moving Tons of Fragile Crystals with Care: the CMS ECAL Enfourneur2 Project
Roberta Bianco (Istituto Nazionale di Fisica Nucleare)

MC7 - MOP7189 Design validation and alignment assessment of the girder prototypes for the ALBA II storage ring
Nahikari Gonzalez (ALBA Synchrotron (Spain))

MC7 - MOP7190 Mechanical Design, Virtual Assembly and Fabrication of a Compact 750 MHz IH DTL Accelerating Cavity
Jorge Feuchtwanger (Ikerbasque)

MC7 - MOP7191 Development of a Harmonised Framework for Electrical Safety Compliance at CERN
Rui Simpson (European Organization for Nuclear Research)

MC7 - MOP7192 Design of an RF-Gridded Cathode for High-Efficiency Tristron
Aditya Singh Thakur (European Organization for Nuclear Research)

MC8 - MOP8301 Development And Fabrication Of A CW Copper Injector For SRF Industrial Cryomodules
Chunguang Jing (Euclid Techlabs (United States))

MC8 - MOP8302 First Beam Demonstration in Hand-Portable Battery-Operated 2 MeV Ku-band Split Linac
Sergey Kutsaev (RadiaBeam Technologies (United States))

MC8 - MOP8303 Standard and Microbeam LINATRONs by Varex Imaging Corporation
Andrey Mishin (Varex Imaging (United States))

MC8 - MOP8304 Measuring and Characterizing Beam Energy of a Compact Medical Linear Accelerator
Tong Chen (RefleXion Medical (United States))

MC8 - MOP8305 Lattice design of the proton flash therapy facility
Dejan Trbojevic (Brookhaven National Laboratory)

MC8 - MOP8306 Conceptual design of novel deuteron accelerator for transmutation
Yong Jiang (Particle Accelerator Research Foundation)

MC8 - MOP8307 The Rapiscan Linac Test Beamline
Joe Crone (Rapiscan Systems (United States))

MC8 - MOP8308 Integrated Sustainment Strategy through a Unified Accelerator Systems Definition
Martin Pieck (Los Alamos National Laboratory)

MC8 - MOP8309 Pulsed Electron Beams for Single-Event Effects Testing
Atharva Kulkarni (Particle Beam Physics Lab (PBPL))

MC8 - MOP8310 Analysis of Permanent Magnet Degradation in the CEBAF Radiation Environment
Kirsten Deitrick (Thomas Jefferson National Accelerator Facility)

MC8 - MOP8602 Design of an accelerator-based X-ray sources for industrial stationary CT
Liang Zhang (Nuctech (China))

MC8 - MOP8603 High-power Test of a 40kW Industrial Electronic Linear Accelerator
Heng Deng (Tsinghua University)

MC8 - MOP8604 Verification Experiment Design of Solenoid-Based Relativistic Electron Beam Pulse Compression
Chongnan Shi (Tsinghua University)

MC8 - MOP8605 Compact X band 2 MeV Linac for on-site inspection
Yongtao Liu (Xihua University)

MC8 - MOP8606 R&D small focal spot Linacs for industrial and cargo scanning at Elekom
Yongtao Liu (Xihua University)

MC8 - MOP8607 Design study of a dielectric assist accelerating structure for a 1-MeV Industrial X-Ray Source
DAISUKE SATOH (National Institute of Advanced Industrial Science and Technology)

MC8 - MOP8608 Synchrotron XRF Characterization of Lithium in Pyrite-Bearing Shales in North-East India: Advanced Materials Analysis for Unconventional Resources.
Zahid Mamud (The Assam Royal Global University)

MC8 - MOP8609 Morphological Evolution and Electrical Transport Studies in Ultrathin Te Films under 80 MeV Ag^{7+} Ion Irradiation
UPASANA BORDOLOI (Indian Institute of Technology Delhi)

MC8 - MOP8610 Defect Engineering of Transition Metal Oxide Films Employing Low Energy Ion Accelerator for Emerging Non-Volatile Memory Application
Disha Yadav (University of Petroleum and Energy Studies)

MC8 - MOP8611 Design of a Large-area Irradiation Beamline and Chamber Using a 1.7 MV Tandem Accelerator of KOMAC
Kye-Ryung Kim (Korea Atomic Energy Research Institute)

MC8 - MOP8612 Development of an Integrated UTM and PIXE System with Proton Beam Irradiation for Real-time Material Testing
Seyoung Oh (Korea Institute of Radiological and Medical Sciences)

MC8 - MOP8613 Development of a PIXE Analysis System Using the MC50 Cyclotron Beamline
SangChul Mun (Korea Institute of Radiological and Medical Sciences)

MC8 - MOP8614 IP-SAFE for the production of radiopharmaceutical isotope Ac-225
Liangting Sun (Institute of Modern Physics, Chinese Academy of Sciences)

MC8 - MOP8615 A Computational Metheodology for Efficient Ac-225 Production via Proton Irradiation of Ra-226
XinYa Sun (Shanghai Advanced Research Institute, Chinese Academy of Sciences)

MC8 - MOP8616 Development of 30 MeV Electron linac for Medical Radioisotopes Generation and Research at SAMEER, India
TANUJA DIXIT (Society for Applied Microwave Electronics Engineering & Research)

MC8 - MOP8617 Accelerator-Driven Radiation Studies of YSZ-MgO Composites for Nuclear Applications
Rishvana Parveen (University of Petroleum and Energy Studies)

MC8 - MOP8618 Experimental and First-Principles GGA-PBE Insights into SHI-Induced Defects and Local Bonding Among Different Grain Sizes in $Ce_{0.75}Gd_{0.25}O_2$
VIVEK KUMAR (Jawaharlal Nehru University)

MC8 - MOP8619 A Report from ISBA25, Accelerator School in Shanghai, China
Masao Kuriki (Hiroshima University)

MC8 - MOP8620 IPAC'25 PRE Session-Report: Fostering a Productive Research Environment in the Accelerator Community
Yoichi Sato (Japan Proton Accelerator Research Complex)

Tuesday, May 19, 2026

Oral programme. 183
Poster Session. 187

Oral programme

TUI2M MC2 - Photon Sources and Electron Accelerators (Invited)

May 19, 2026 **9:00 a.m. / 10:30 a.m.**

Chair: Jordi Marcos (CELLS)

TUI2M02 **9:00 a.m.**

Commissioning and current status of High Energy Photon Source (HEPS)

Yuhui Dong (Institute of High Energy Physics, Chinese Academy of Sciences)

TUO2M MC2 - Photon Sources and Electron Accelerators (Contributed)

May 19, 2026 **9:00 a.m. / 10:30 a.m.**

Chair: Jordi Marcos (CELLS)

TUO2M01 **9:30 a.m.**

SOLEIL II: the French 4GLS Project - First Year of the Construction Program

Laurent Nadolski (Synchrotron soleil)

TUO2M02 **9:50 a.m.**

EuPRAXIA at ELI ERIC: Development of a Compact LPA FEL and Plasma Source for Ultrafast Science

Alexander Molodozhentsev (Extreme Light Infrastructure Beamlines)

TUO2M03 **10:10 a.m.**

Development Progress of the SHINE Accelerator

Bo Liu (Shanghai Advanced Research Institute)

TUI8T MC8 - Applications of Accelerators, Technology Transfer and Industrial Relations and Outreach (Invited)

May 19, 2026 **9:00 a.m. / 10:30 a.m.**

Chair: John Thomason (STFC)

TUI8T01 **9:00 a.m.**

Particle accelerator-driven muon spectroscopy: an invaluable tool to understand our material world.

Adrian Hillier (Science and Technology Facilities Council)

TUO8T MC8 - Applications of Accelerators, Technology Transfer and Industrial Relations and Outreach (Contributed)

May 19, 2026 **9:00 a.m. / 10:30 a.m.**

Chair: John Thomason (STFC)

TUO8T01 **9:30 a.m.**
First mixed He/C ion beams at a clinical facility: two years from concept to first ion imaging experiments
Elisabeth Renner (TU Wien)

TUO8T02 **9:50 a.m.**
Accelerators activities at ENEA for aerospace
Giulia Bazzano (Ente per le Nuove Tecnologie, l'Energie e l'Ambiente)

TUO8T03 **10:10 a.m.**
Mapping Global Collaboration in Accelerator Research
Annabella Zamora, University of Lausanne

TUI4M MC4 - Applications of Accelerators, Technology Transfer and Industrial Relations and Outreach (Invited)

May 19, 2026 **11:00 a.m. / 12:30 p.m.**

Chair: Ralf Gebel (FZJ & GSI)

TUI4M01 **11:00 a.m.**
Accelerator Research for Proton Therapy
Andrea Denker (Helmholtz-Zentrum Berlin für Materialien und Energie)

TUI4M MC4 - Hadron Accelerators (Invited)

May 19, 2026 **11:00 a.m. / 12:30 p.m.**

Chair: Ralf Gebel (FZJ & GSI)

TUI4M01 **11:30 a.m.**
Status and comparison of world-wide in-flight fragment separators
Haik SIMON (GSI Helmholtz Centre for Heavy Ion Research)

TUI4M02 **12:00 p.m.**
Accelerator complex evolution at Fermilab
Mary Convery (Fermi National Accelerator Laboratory)

TUI3T MC3 - Novel Particle Sources and Acceleration Techniques (Invited)

May 19, 2026 **11:00 a.m. / 12:30 p.m.**

Chair: Tadashi Koseki (KEK)

TUI3T01 **11:00 a.m.**
High quality electron beams with tunable energy produced by laser-plasma acceleration
Brigitte CROS (Laboratoire de Physique des Gaz et des Plasmas)

TUI3T02 **11:30 a.m.**
First direct observation of a wakefield generated with structured light
Aaron Liberman (Weizmann Institute of Science)

TUI6T MC6 - Beam Instrumentation, Controls, Feedback & Operational Aspects (Invited)

May 19, 2026 **11:00 a.m. / 12:30 p.m.**

Chair: Tadashi Koseki (KEK)

TUI6T01 **12:00 p.m.**
ML-driven automated tuning of SACLA XFEL: progress and future
Eito Iwai (Japan Synchrotron Radiation Research Institute)

TUI2M MC2 - Photon Sources and Electron Accelerators (Invited)

May 19, 2026 **2:00 p.m. / 4:00 p.m.**

Chair: Yine Sun (ANL)

TUI2M03 **2:00 p.m.**
Attosecond FEL Physics
Agostino Marinelli (SLAC National Accelerator Laboratory)

TUI2M04 **2:30 p.m.**
Commissioning and performance of the ThomX compact compton source demonstrator
Iryna Chaikovska (Laboratoire de Physique des 2 Infinis Irène Joliot-Curie)

TUO2M MC2 - Photon Sources and Electron Accelerators (Contributed)

May 19, 2026 **2:00 p.m. / 4:00 p.m.**

Chair: Yine Sun (ANL)

TUO2M04 **3:00 p.m.**
High Charge Operation and Future Upgrades of the APS-U Injector Chain
Joseph Calvey (Argonne National Laboratory)

TUO2M05 **3:20 p.m.**
CLARA Commissioning and First Friendly User Experiments
Mark Johnson (Science and Technology Facilities Council)

TUO2M06 **3:40 p.m.**
SLS2.0 commissioning progress
Masamitsu Aiba (Paul Scherrer Institute)

TUI7T MC7 - Accelerator Technology and Sustainability (Invited)

May 19, 2026 **2:00 p.m. / 4:00 p.m.**

Chair: Adriana Wawrzyniak (Solaris)

TUI7T01 **2:00 p.m.**
Innovate for Sustainable Accelerator Systems (iSAS)
Maud Baylac (Laboratoire de Physique Subatomique et de Cosmologie)

TUI7T02 **2:30 p.m.**
The tristron, a new paradigm in high-efficiency RF power generation
Igor syratchev (European Organization for Nuclear Research)

TUO7T MC7 - Accelerator Technology and Sustainability (Contributed)

May 19, 2026 **2:00 p.m. / 4:00 p.m.**

Chair: Adriana Wawrzyniak (Solaris)

TUO7T01 **3:00 p.m.**
Scale up in length of Nb3Sn accelerator magnets: the experience of MQXF coils
Susana Izquierdo Bermudez (European Organization for Nuclear Research)

TUO7T02 **3:20 p.m.**
An ultra-high brightness cryogenic C-band RF gun for ultra-fast electron diffraction applications
Chad Pennington (Cornell University (CLASSE))

TUO7T03 **3:40 p.m.**
Analysis of LCLS-SC commissioning and operational quenches
Nicole Neveu (SLAC National Accelerator Laboratory)

Poster Session

TUV

Tuesday Poster Session
(Invited poster)

May 19, 2026 **4:00 p.m. / 6:00 p.m.**

MC2 - TUV2301 Measurements of single-shot attosecond X-ray pulses at high repetition rate
Veronica Guo (Stanford University)

MC2 - TUV2303 WaterFEL: Project Update on the New Canadian Infrared Free Electron Laser Facility
Mark Boland (University of Saskatchewan)

MC2 - TUV2601 Commissioning and initial operation of a Compact FEL-THz facility at IUAC, New Delhi
Bhuban Kumar Sahu (Inter-University Accelerator Centre)

MC3 - TUV3001 Overview of the DONES Programme
Philippe Cara (Fusion for Energy)

MC3 - TUV3002 Progress Towards High-Repetition-Rate Plasma Wakefield Acceleration at FLASHForward
Judita Beinortaite (Deutsches Elektronen-Synchrotron DESY)

MC3 - TUV3301 Developing a Hybrid Accelerating Structure Based on Short-Pulse Structure Wakefield Acceleration
John Power (Argonne National Laboratory)

MC7 - TUV7301 The First Beam Produced by A Conduction Cooled SRF Photogun
Chunguang Jing (Euclid Techlabs (United States))

MC7 - TUV7302 Klystron X-Ray Diagnostic
Jesus Valladares (Los Alamos National Laboratory)

MC7 - TUV7601 High Reliability Digital Control Magnet Power Supply System for SPring-8-II
Chikara Kondo (Japan Synchrotron Radiation Research Institute)

MC8 - TUV8001 Commercial Accelerators for Proton Therapy - An Overview
Andreas Peters (Heidelberg Ionenstrahl-Therapie Centrum)

MC8 - TUV8002 Mapping Global Collaboration in Accelerator Research
Annabella Zamora (University of Lausanne)

TUP

Tuesday Poster Session
(Poster Presentation)

May 19, 2026 **4:00 p.m. / 6:00 p.m.**

MC2 - TUP2001 Some statistical properties of attosecond SASE FELs
Johan Ribbing (Uppsala University)

MC2 - TUP2301 Optimizing the NSLS-IIU Energy for Maximum Brightness at Operational Beam Intensity
Victor Smaluk (Brookhaven National Laboratory)

MC2 - TUP2302 Limitations of the IBS theories with high-density beams
Victor Smaluk (Brookhaven National Laboratory)

MC2 - TUP2303 Investigating the beam dynamics of the advanced light source booster synchrotron
Steven Hunt (Lawrence Berkeley National Laboratory)

MC2 - TUP2304 RECENT DEVELOPMENTS TOWARDS THE SDLS
Donish Khan (SLAC National Accelerator Laboratory)

MC2 - TUP2305 Status of SIRIUS Operation
Lin Liu (Brazilian Synchrotron Light Laboratory)

MC2 - TUP2306 CLS: Return to Operation
Frédéric Le Pimpec (Canadian Light Source (Canada))

MC2 - TUP2307 Comparison of Predicted and Measured Orbit Stability in the APS Upgrade Storage Ring
Vadim Sajaev (Argonne National Laboratory)

MC2 - TUP2308 Accuracy and Stability of Lattice Correction in the APS Upgrade
Vadim Sajaev (Argonne National Laboratory)

MC2 - TUP2309 NSLS-II operation status and future plans
Guimei Wang (Brookhaven National Laboratory)

MC2 - TUP2310 NSLS-II R&D for Operations and Beam Studies
Guimei Wang (Brookhaven National Laboratory)

MC2 - TUP2311 Design a fast kicker for SPEAR3 pseudo single bunch operation
Xiaobiao Huang (SLAC National Accelerator Laboratory)

MC2 - TUP2313 The Generation of Variable Polarization States in Terawatt X-Ray Free-Electron Lasers
Henry Freund (University of New Mexico)

MC2 - TUP2314 Efficiency enhancement in regenerative amplifier free-electron lasers using a tapered undulator
Henry Freund (University of New Mexico)

MC2 - TUP2315 Development of a Magnetic Measurement Test Stand for LCLS-II-HE Undulator Pre-Tuning
Johann Eduardo Baader (SLAC National Accelerator Laboratory)

MC2 - TUP2316 Machine Learning based preventive maintenance and autonomous power control for RF cavities in a free-electron laser
Tushnim Yuvaraj (Columbia University)

MC2 - TUP2317 Simulation Progress for the Re-commissioning of the University of Hawaiii at Mānoa's Linac and FEL
Niels Bidault (University of Hawai'i at Mānoa)

MC2 - TUP2321 Reduction of dark current in LCLS-II via cathode plug shape modification
Sean Littleton (SLAC National Accelerator Laboratory)

MC2 - TUP2322 Experimental Design and First Results from the Plasma-Driven Attosecond X-Ray Experiment at FACET-II
Rafi Hessami (SLAC National Accelerator Laboratory)

MC2 - TUP2323 Deterministic Longitudinal Control of Electron Beams for Universal Light Sources via Spatiotemporal Laser Shaping: Demonstration at LCLS-II
Jack Hirschman (Stanford University)

MC2 - TUP2324 Towards Online-Tunable XFELs: Programmable Laser Shaping to Streaming End-Station Diagnostics
Jack Hirschman (Stanford University)

MC2 - TUP2325 An Alternate Method to Generate Continuous Wave Beams for Hard-X-ray FEL
Nikhil Bachhawat (Stony Brook University)

MC2 - TUP2326 Pulsed Compton gamma-ray beam generation using pulsed FEL beam
Stephen Yates (Triangle Universities Nuclear Laboratory)

MC2 - TUP2327 Linear Polarized Gamma-ray Research at the Duke University High-Intensity Gamma-ray Source and Applications to Nuclear Waste Mitigation, Astrophysics, and Security
Stephen Yates (Triangle Universities Nuclear Laboratory)

MC2 - TUP2328 Free-Electron Lasers for Large-Scale EUV Lithography
Dinh Nguyen (xLight Incorporated)

MC2 - TUP2329 The APS Photoinjector in High-Charge and High-Brightness Modes
Yine Sun (Argonne National Laboratory)

MC2 - TUP2330 Recommissioning and Restart of the 45 MeV UH Mānoa Linac and Free-Electron Laser
Niels Bidault (University of Hawai'i at Mānoa)

MC2 - TUP2331 First degraded beams in the CEBAF injector
Amy Sy (Thomas Jefferson National Accelerator Facility)

MC2 - TUP2332 RF Kicks in the Super Conducting Linac of LCLS-II
Michael Ehrlichman (SLAC National Accelerator Laboratory)

MC2 - TUP2333 Dual beam dynamic modes in a Compact Standing Wave Linear Accelerator
Tong Chen (RefleXion Medical (United States))

MC2 - TUP2334 Design and Stability Analysis of a Quadrupole Demagnifier for Emittance Exchange-based Transverse-to-longitudinal Density Modulation Frequency Upshift
Rachel Margraf-O'Neal (Argonne National Laboratory)

MC2 - TUP2335 Ultraviolet transverse shaping with structured-stochastic phase-plates for photocathode applications
Rachel Margraf-O'Neal (Argonne National Laboratory)

MC2 - TUP2336 Progress on Experimental Demonstration of Sawtooth Correlation Generation for Bunching Factor Enhancement
Deeksha Sinha (Northern Illinois University)

MC2 - TUP2337 SIRIUS Storage Ring Emittance Measurement
Gabriel Ascenção (Brazilian Synchrotron Light Laboratory)

MC2 - TUP2338 Impact of VPU on Beam Dynamics in the SIRIUS Storage Ring
Gabriel Ascenção (Brazilian Synchrotron Light Laboratory)

MC2 - TUP2339 APS storage ring solid state amplifier upgrade current status
Yong Luo (Argonne National Laboratory)

MC2 - TUP2340 Application of LSTM Autoencoder to the 10 kHz Storage Ring Orbit Data
Guimei Wang (Brookhaven National Laboratory)

MC2 - TUP2341 Real-time Storage Ring Optics Monitoring and Correction Feedback System
Guimei Wang (Brookhaven National Laboratory)

MC2 - TUP2342 Design of complex bend magnet for testing at NSLS-II storage ring
Guimei Wang (Brookhaven National Laboratory)

MC2 - TUP2343 Design and Integration of ALS-U Storage Ring Modules
Dmitry Gudkov (Lawrence Berkeley National Laboratory)

MC2 - TUP2344 Electrical integration of the ALS-U Storage Ring Modules
Adrien Talon (Lawrence Berkeley National Laboratory)

MC2 - TUP2345 Consideration of an Unbunched High Energy Electron Storage Ring
Michael Ehrlichman (SLAC National Accelerator Laboratory)

MC2 - TUP2346 Towards Generation of Orbital Angular Momentum THz Radiation via Dielectric Wakefield Acceleration
Jackson Rozells (University of California, Los Angeles)

MC2 - TUP2347 Nonlinear photoemission for bright beams in x-band photoinjectors
Casey Timms (Arizona State University)

MC2 - TUP2348 Monochromation of pulsed electron beams with terahertz radiation at a planar mirror
Cecilia Abbamonte (Cornell University (CLASSE))

MC2 - TUP2349 FEA Studies of the CANREB Electron Gun for a Test Bench Setup
Marco Hartmann (TRIUMF)

MC2 - TUP2350 Experimental Reconstruction of Source 4D Phase Space Without Prior Knowledge of Transfer Matrix
Charles Zhang (Cornell University (CLASSE))

MC2 - TUP2351 Numerical modeling of the Advanced Photon Source Thermionic Radiofrequency Electron Source
Aatmesh Govind (Illinois Institute of Technology)

MC2 - TUP2352 Study and Characterization of GaAs/GaxIn1-xP Superlattices for Spin Polarized Electron Sources
Alimohammed Kachwala (Arizona State University)

MC2 - TUP2353 LCLS-II Injector Operational Challenges and Developments
Feng Zhou (SLAC National Accelerator Laboratory)

MC2 - TUP2354 Capturing Beam from Two Different Linear Accelerators in the Canadian Light Source Booster Synchrotron
Ward Wurtz (Canadian Light Source (Canada))

MC2 - TUP2355 Experience Adjusting Beam Transport and Booster Synchrotron Systems for Different Linac Output Energies at the Canadian Light Source
Ward Wurtz (Canadian Light Source (Canada))

MC2 - TUP2356 Machine Learning-Based Prediction of Beam Parameters in the ALS Injector
Gianluca Martino (Lawrence Berkeley National Laboratory)

MC2 - TUP2601 Commissioning and Operation of the HEPS
Yi Jiao (Chinese Academy of Sciences)

MC2 - TUP2602 Progress of physics studies and beam commissioning of the High Energy Photon Source
Yi Jiao (Chinese Academy of Sciences)

MC2 - TUP2603 Study on Beam Optics Parameter Calibration of the High Energy Photon Source
Daheng Ji (Institute of High Energy Physics)

MC2 - TUP2604 Fast Modeling of X-ray Free-Electron Laser Oscillator driven by Diffraction Limited Storage Ring
Weilun Qin (Institute of High Energy Physics, Chinese Academy of Sciences)

MC2 - TUP2605 Higher Order Analysis for the Wakefields of a Single-plate Corrugated Structure
Weilun Qin (Institute of High Energy Physics, Chinese Academy of Sciences)

MC2 - TUP2606 Feasibility of a Compact X-ray Free-Electron Laser Oscillator based on Diffraction Limited Storage Ring
Weilun Qin (Institute of High Energy Physics, Chinese Academy of Sciences)

MC2 - TUP2607 Beam based alignment of quadrupoles at HEPS
Xiaohao Cui (Institute of High Energy Physics)

MC2 - TUP2608 Operation status of HEPS booster
Haisheng Xu (Institute of High Energy Physics)

MC2 - TUP2609 Microbunching Enhancement by Stochastic Cooling in an Electron Storage Ring
Xiujie Deng (Tsinghua University)

MC2 - TUP2610 The lattice design for very high average power steady-state microbunching (SSMB) extreme ultra-violet (EUV) light source.
Zhilong Pan (Tsinghua University)

MC2 - TUP2611 The intra-beam scattering study for longitudinal strong focusing storage rings and lattice optimization
Zhilong Pan (Tsinghua University)

MC2 - TUP2612 Preliminary Lattice Design to the 1 Pico-meter Level Emittance for the Southern Advanced Photon Source
Jianliang Chen (Chinese Academy of Sciences)

MC2 - TUP2613 Generation of Local Vertical Dispersion in a Long Straight Section of SAPS Storage Ring
Jianliang Chen (Chinese Academy of Sciences)

MC2 - TUP2614 Performance Comparison between Variable Bending Magnets and 'Sandwich' Magnets in the Southern Advanced Photon Source
Jianliang Chen (Chinese Academy of Sciences)

MC2 - TUP2615 Commissioning and current status of High Energy Photon Source
Yuhui Dong (Institute of High Energy Physics, Chinese Academy of Sciences)

MC2 - TUP2616 Optimization of the Response Matrix Measurement Program
Haisheng Xu (Institute of High Energy Physics)

MC2 - TUP2617 Study of gas scattering-induced beam losses and collimation for the SOLEIL II storage ring
Yuejing Huang (University of Science and Technology of China)

MC2 - TUP2618 Coupled-bunch instability study for UTEF storage ring
Jincheng Xiao (University of Science and Technology of China)

MC2 - TUP2619 Enhanced coherent terahertz generation in storage rings with an active demodulation section
Xiazhen Xu (University of Science and Technology of China)

MC2 - TUP2620 Design and Magnetic Measurement Results of the HALF Storage Ring Magnets
BaoHou Liu (University of Science and Technology of China)

MC2 - TUP2621 Development of Low-level RF Control System for Injector of Hefei Advanced Light Facility
Kunlin Wu (University of Science and Technology of China)

MC2 - TUP2622 Long time operation of superconducting third harmonic cryomodule at SSRF
Hongtao Hou (Shanghai Advanced Research Institute)

MC2 - TUP2623 A Modular Optimization Framework for 4th Generation Light Source Lattice Design: Synergizing Physics Priors and Statistical Learning
LINGLONG MAO (Shanghai Institute of Applied Physics, Chinese Academy of Sciences)

MC2 - TUP2624 Ground Vibration Measurements at HALF site
Jianhao Xu (University of Science and Technology of China)

MC2 - TUP2625 Lattice design and optimization of the HALF storage ring with superbend
Jincheng Xia (University of Science and Technology of China)

MC2 - TUP2626 Dynamic aperture prediction based on machine learning
Jincheng Xia (University of Science and Technology of China)

MC2 - TUP2627 Optimization and Update of the HALF Storage Ring Physics Design
Tianlong He (University of Science and Technology of China)

MC2 - TUP2628 Studies on Virtual Platform for the HALF Beamline
Fang Li (University of Science and Technology of China)

MC2 - TUP2629 Generation and Diagnostics of Nanosecond-Interval Laser Pulse Trains with Femtosecond-Level Timing Control for the Korea-4GSR Photocathode RF Gun
Seong-Hoon Kwon (Pohang Accelerator Laboratory)

MC2 - TUP2630 Updated Orbit Stability Evaluation for the Korea-4GSR Incoporating New Mechanical and Beam Disturbance Measurements
Gyeongsu Jang (Pohang University of Science and Technology)

MC2 - TUP2631 Beam Performance and Characterization of the Siam Photon Source Injector Linac
Thakonwat Chanwattana (Synchrotron Light Research Institute)

MC2 - TUP2632 Recent Progress on the Infrared Free-Electron Laser Facility of Anhui University
Minxin Wu (Anhui University)

MC2 - TUP2633 Commissioning of a MHz-Repetition-Rate Injector for an Extreme-Ultraviolet CW-FEL Facility
Weiqing Zhang (Dalian Institute of Chemical Physics, Chinese Academy of Sciences)

MC2 - TUP2634 Development of Photocathodes and Guns for the Electron Source Test Facility of the Dalian Advanced Light Source
Jiayue Yang (Dalian Institute of Chemical Physics)

MC2 - TUP2635 Multi-Objective Bayesian Optimization of Multi-Stage OK-SASE for Efficient High-Energy XFEL Operation
Xiaodan Liu (Hunan University)

MC2 - TUP2636 Modeling of CSR and its cancellation in DBA/Chicane type compressors
Fancong Zeng (Chinese Academy of Sciences)

MC2 - TUP2637 Simulation Study of the Full Waveguide Design for HiFEL
Guanzheng Wu (University of Science and Technology of China)

MC2 - TUP2638 The physical design for High-Repetition-Rate IR-THz FEL
Zihan Wang (University of Science and Technology of China)

MC2 - TUP2639 Theoretical Analysis of a Novel Seeded Free-Electron Laser Scheme with Echo-Enabled Harmonic Generation Layout
Zihan Wang (University of Science and Technology of China)

MC2 - TUP2640 Feasibility verification of intense X-Ray vortices generation experimental scheme based on SXFEL
xingrui zhu (Shanghai Institute of Applied Physics, Chinese Academy of Sciences)

MC2 - TUP2641 Understanding THz superradiant free electron lasers
Zhuoyuan Liu (Tsinghua University)

MC2 - TUP2642 Optimization of attosecond XFEL pulse generation using Bayesian optimization
Chenzhi Xu (Shanghai Institute of Applied Physics)

MC2 - TUP2643 Data-Driven Multi-Objective Optimization for Attosecond XFEL Design
Chenzhi Xu (Shanghai Institute of Applied Physics)

MC2 - TUP2644 A simple scheme for generating high-power attosecond X-ray FEL pulses carrying orbital angular momentum
Chenzhi Xu (Shanghai Institute of Applied Physics)

MC2 - TUP2645 AttoSHINE: Generation of continuous-wave terawatt-scale attosecond X-ray pulses at SHINE
Chenzhi Xu (Shanghai Institute of Applied Physics)

MC2 - TUP2646 Analysis of slice energy spread increased by intra-beam scattering at the SHINE Injector and Linac
Wencai Cheng (Shanghai Advanced Research Institute)

MC2 - TUP2647 Commissionning progress of SHINE LINAC
Duan Gu (Shanghai Advanced Research Institute)

MC2 - TUP2648 Continuous THz Band Coverage through Precise Electron Beam Tailoring in Free-electron Lasers
Yin Kang (Shanghai Advanced Research Institute, Chinese Academy of Sciences)

MC2 - TUP2649 Plasma-wakefield acceleration platform based on shanghai soft x-ray free electron laser
Zhen Wang (Shanghai Advanced Research Institute)

MC2 - TUP2650 Intense and Tunable Multi-color Terahertz Radiation from Laser-Shaped Electron Beams
Yin Kang (Shanghai Advanced Research Institute, Chinese Academy of Sciences)

MC2 - TUP2651 Lasing of the elliptically polarized undulators in SXFEL
Zhangfeng Gao (Shanghai Synchrotron Radiation Facility)

MC2 - TUP2652 FEL Commissioning Preparation for first lasing at the SHINE Project
Hanxiang Yang (Shanghai Advanced Research Institute, Chinese Academy of Sciences)

MC2 - TUP2653 Advanced Externally Seeded FEL Schemes for High-Repetition-Rate Operation at SHINE
Hanxiang Yang (Shanghai Advanced Research Institute)

MC2 - TUP2654 Zeptosecond gamma-Ray Pulses Generation via FEL-Driven Microbunching and Laser-Compton Scattering
jinke Xiong (Shanghai Institute of Applied Physics, Chinese Academy of Sciences)

MC2 - TUP2655 X-ray frequency combs generation using echoenabled harmonic generation free electron laser
Lanpeng Ni (Shanghai Institute of Applied Physics)

MC2 - TUP2656 Experimental Preparation for Generating Tunable X-ray Frequency Combs at the Shanghai Soft X-ray Free-Electron Laser Facility
Lanpeng Ni (Shanghai Institute of Applied Physics)

MC2 - TUP2657 Off-axis hollow-channel plasma tailoring for generating two-color x-ray free-electron lasers
Haiyang Li (Shanghai Institute of Applied Physics, Chinese Academy of Sciences)

MC2 - TUP2658 Spectral Control of a Cavity-Based X-ray Free-Electron Laser via Active Mode Locking
Nanshun Huang (Shanghai Zhangjiang Laboratory)

MC2 - TUP2659 Theoretical and Experimental Studies of the Injector for the SHINE Facility
Zipeng Liu (Shanghai Zhangjiang Laboratory)

MC2 - TUP2660 Ultrafast Free-Electron Laser Generation with Optical Beat Note
Yaozong Xiao (Shanghai Optoelectronics Science and Technology Innovation Center)

MC2 - TUP2661 Design study of injector system using rf electron gun with gridded thermionic cathode towards soft X-ray free-electron laser
Takao Asaka (National Institutes for Quantum Science and Technology)

MC2 - TUP2662 Study of Harmonic Radiation from SASE and Self-Seeded FELs in the PAL-XFEL Hard X-ray Undulator Line
Chi Hyun Shim (Pohang Accelerator Laboratory)

MC2 - TUP2663 Design of an Automatic Tuning and Adjustment System for X-band Traveling-Wave Accelerating Structures
Yan Wang (Huazhong University of Science and Technology)

MC2 - TUP2664 Optimization of a Storage Ring Pre-Injector for High Transmission Efficiency and Low Energy Spread
Fengyi Zhang (University of Science and Technology of China)

MC2 - TUP2665 Beam Dynamics Analysis of an Electron Microtron Using General Particle Tracer
Fengyi Zhang (University of Science and Technology of China)

MC2 - TUP2666 RF Commissioning Results in the SHINE
Yubin Zhao (Shanghai Advanced Research Institute, Chinese Academy of Sciences)

MC2 - TUP2667 Design and Commissioning of a S-band Linac for ADM experiment
JUNJIE GUO (Shanghai Advanced Research Institute, Chinese Academy of Sciences)

MC2 - TUP2668 Preparation and Research of CsBr-Coated Cs3Sb Photocathodes
YUXIN CHENG (Shanghai Advanced Research Institute, Chinese Academy of Sciences)

MC2 - TUP2669 Control of the pulse modulator for PAL-XFEL using PLC and ASFM
Sang-Hee Kim (Pohang Accelerator Laboratory)

MC2 - TUP2670 The collimator system for reducing the dark current in nsrrc photoinjector
Yi-Chieh Chang (National Synchrotron Radiation Research Center)

MC2 - TUP2672 Design of a 10-MHz High-Energy-Resolution Light Source
JunHao Liu (Shanghai Institute of Applied Physics)

MC2 - TUP2673 Commissioning Experiences of Active Double-RF System in HEPS Storage Ring
Haisheng Xu (Institute of High Energy Physics)

MC2 - TUP2674 Localization of low-frequency noise sources in the beam orbit of HEPS
Xiyang Huang (Chinese Academy of Sciences)

MC2 - TUP2675 Optimizing a Low-Gain FEL Oscillator for the SAPS Storage Ring: A Parameter Study
Weilun Qin (Institute of High Energy Physics, Chinese Academy of Sciences)

MC2 - TUP2676 Beam based alignment for bending magnets with transverse gradient
Tao He (University of Science and Technology of China)

MC2 - TUP2677 Lifetime improvement using vertical dispersion bumps in a storage ring
Tao He (University of Science and Technology of China)

MC2 - TUP2678 Analysis and compensation of the insertion devices effects in the HALF storage ring
Zhouyu Zhao (University of Science and Technology of China)

MC2 - TUP2679 Symplectic Tracking of Damping Wigglers Using Generalized Gradient Representations
Weijie Fan (Shanghai Institute of Applied Physics)

MC2 - TUP2680 Investigation of the compensation scheme using the broadband kicker cavity to mitigate the transient beam-loading effect in synchrotron light sources
Naoto Yamamoto (High Energy Accelerator Research Organization)

MC2 - TUP2681 Suppression of Longitudinal Instability at NanoTerasu
Kota Ueshima (National Institutes for Quantum Science and Technology)

MC2 - TUP2682 Evaluation and Mitigation of Magnetic Cross-talk in the Korea-4GSR Storage Ring
Seohyeon An (Pohang Accelerator Laboratory)

MC2 - TUP2683 Numerical simulation of helium leakage in the experi-mental hall at TPS
Ming-Chyuan Lin (National Synchrotron Radiation Research Center)

MC2 - TUP2684 Optimization tool of coupling control for the Taiwan Photon Source upgraded
Hao-Wen Luo (National Synchrotron Radiation Research Center)

MC2 - TUP2685 Design of a new booster to storage ring transfer line for nonlinear kicker injection scheme in Taiwan Photon Source
Hao-Wen Luo (National Synchrotron Radiation Research Center)

MC2 - TUP2686 Intensity distribution of high-order harmonics radiation in the superradiant THz FEL
Tong Li (Tsinghua University)

MC2 - TUP2687 Burst-Mode Operation of Fabry–Perot Cavities for Enhancing Effective Intracavity Power
å›½å£f å¼ (Tsinghua University)

MC2 - TUP2688 A Novel Method for Measuring the Energy Spectrum of an Inverse Compton Scattering Source Based on Nuclear Resonance Fluorescence
Jin Lin (Tsinghua University)

MC2 - TUP2689 Recent Progress at the Shanghai Laser Electron Gamma Source
Zirui Hao (Shanghai Advanced Research Institute)

MC2 - TUP2690 Attosecond-Resolution Ultrafast Electron Diffraction Enabled by THz Streaking
Jiapeng Li (Huazhong University of Science and Technology)

MC2 - TUP2691 Using Stretching-Modulation-Compression Effect to Generate Isolated Few-Femtosecond MeV Electron Bunches
Weilun Qin (Institute of High Energy Physics, Chinese Academy of Sciences)

MC2 - TUP2692 Using THz Modulation to Generate and Manipulate MeV Sub-Femtosecond or Attosecond Electron Microbunch Train
Weilun Qin (Institute of High Energy Physics, Chinese Academy of Sciences)

MC2 - TUP2693 Design of an L-band Normal-conducting Continuous-wave Accelerating Structure
Haipeng Zhi (Tsinghua University)

MC2 - TUP2694 RF Electron Guns with Controlled Longitudinal Dispersion for Attosecond UED
YUXIN CHENG (Shanghai Institute of Applied Physics, Chinese Academy of Sciences)

MC2 - TUP2695 Commissioning of the Injector System for the X-Band Electron Linear Accelerator in Melbourne
Joel Valerian (The University of Melbourne)

MC2 - TUP2696 Measurement and study of the thermal emittance of Cs2Te photocathodes
Zenggong Jiang (Shanghai Advanced Research Institute, Chinese Academy of Sciences)

MC2 - TUP2697 Analysis of Beam Loading Effect of Dark Current in C-Band Photocathode Electron Gun
Shengjin LIU (China Spallation Neutron Source)

MC2 - TUP2698 Minimizing Slice Energy Spread Photocathode RF Gun for Ultrashort Electron Bunch Generation
Fengyi Zhang (University of Science and Technology of China)

MC2 - TUP2699 Design of a Dual-Mode RF Gun
ShaoHang Ma (University of Science and Technology of China)

MC2 - TUP2700 Dark current study of a normal conducting VHF gun
Xing-Heng Wang (Shanghai Advanced Research Institute, Chinese Academy of Sciences)

MC2 - TUP2701 Pulsed Power Supply Based on an Optically Triggered Thyristor for the Nonlinear Kicker Magnet of HALF
Weibo Hu (University of Science and Technology of China)

MC2 - TUP2702 Simulation study of HEPS booster operation at lower injection energy
Aoyu Wang (Institute of High Energy Physics, Chinese Academy of Sciences)

MC2 - TUP2703 First demonstration of swap-out injection with beam recycling in a fourth generation light source
Zhe Duan (Institute of High Energy Physics)

MC2 - TUP2704 Study of Wakefield effect in the burst mode injector designed for SSMB light source
Zhengkai Wang (Tsinghua University)

MC2 - TUP2705 Design and Prototype Tests of Pulsed Magnets for Beam Injection and Extraction in Korea-4GSR Project
Garam Hahn (Pohang Accelerator Laboratory)

MC2 - TUP2706 Design and Simulation of thin Eddy-current Septum for Injection of the TPS
Chin-Kang Yang (National Synchrotron Radiation Research Center)

MC2 - TUP2707 Study on polarization control of planar undulator system based on magnetic field modulation
NanRui Yang (University of Science and Technology of China)

MC2 - TUP2708 The essence factor to deteriorate the circular polarization radiation performance in APPLE-KNOT undulator
Binghao Zhang (University of Science and Technology of China)

MC2 - TUP2709 Application of deep learning methons for insertion device orbit and coupling feedforward at the SSRF
Xinzhong Liu (Shanghai Advanced Research Institute)

MC2 - TUP2710 Development of In-Situ Field Measurement System for Korea-4GSR In-Vacuum Undulators
Geonhee Choi (Korea Basic Science Institute)

MC2 - TUP2711 A GHz-repetition-rate burst-mode drive laser system
Xing Liu (Tsinghua University)

MC2 - TUP2712 Optimization of the feedback system of high-power optical enhancement cavity
yutong huang (Tsinghua University)

MC2 - TUP2714 GPU-Accelerated Simulation Framework for Partially Coherent EUV Light Transport in Tsinghua SSMB Beamline Optics
Haowei Hu (Tsinghua University)

MC2 - TUP2715 Real-Time X-ray Beamline Surrogate Modeling via a Physics-Informed Log-Manifold Learning Framework
Xuanying Song (Tsinghua University)

MC3 - TUP3001 Analytical solenoid matching routines with coolpy
Rebecca Taylor (European Organization for Nuclear Research)

MC3 - TUP3002 Non-linear longitudinal correlations in ionisation cooling channels
Rebecca Taylor (European Organization for Nuclear Research)

MC3 - TUP3003 Radiation of a charged particle crossing a cylindrical resonator with a multilayer wall
Armen Grigoryan (Center for the Advancement of Natural Discoveries using Light Emission)

MC3 - TUP3004 Radiation of a charged particle entering a semi-infinite cylindrical waveguide with a multilayer wall.
Armen Grigoryan (Center for the Advancement of Natural Discoveries using Light Emission)

MC3 - TUP3005 Beam manipulation of laser-driven proton beams using crystal channelling
Helena Lefebvre (Extreme Light Infrastructure Beamlines)

MC3 - TUP3006 ELBA all-optical PW laser - GeV electron collider
Gabriele Maria Grittani (Extreme Light Infrastructure ERIC (Czech Republic))

MC3 - TUP3007 Phase velocity measurements in hollow cylindrical dielectric waveguides for THz acceleration
Randy Ollier (Laboratoire de Physique des 2 Infinis Irène Joliot-Curie)

MC3 - TUP3008 Research status on the ECRIPAC accelerator concept
Andrea Cernuschi (Laboratoire de Physique Subatomique et de Cosmologie)

MC3 - TUP3009 Beamline Optimization for Laser-Accelerated Ions
Daniel Dewitt (Technical University of Darmstadt)

MC3 - TUP3010 SMART - a SMall pArticle accelerRaTor on chip
Alan Marcia (Fondazione Bruno Kessler)

MC3 - TUP3011 High-THz-Frequency Generation and Compact High-Gradient Terahertz-Driven Accelerator with Tapered Parallel-Plate Waveguide.
Andres Leiva Genre (Istituto Nazionale di Fisica Nucleare)

MC3 - TUP3012 The relativistic ponderomotive force under extreme focusing and direct vacuum laser modulation
Johan Ribbing (Uppsala University)

MC3 - TUP3013 Acceleration gradients in dielectric laser accelerators with single and double triangular-shaped gratings
Oleh Svystunov (National Science Centre Kharkiv University)

MC3 - TUP3014 Interaction of high-intensity beam with structured solid surface plasma for wakefield acceleration and coherent radiation generation
Bifeng Lei (University of Liverpool)

MC3 - TUP3015 Hybrid optimisation of THz-driven tapered waveguides for synchronous acceleration of weakly relativistic high-quality electron bunches
Filip Peczek (University of Manchester)

MC3 - TUP3016 cSTART - a compact electron STorage ring for non-equilibrium Accelerator Research and Technology
Robert Ruprecht (Karlsruhe Institute of Technology)

MC3 - TUP3017 Towards integrated diagnostics for multi-stage dielectric laser acceleration: a conceptual study
Thilo Egenolf (Technical University of Darmstadt)

MC3 - TUP3018 Advanced applications of oriented crystals and nanostructures for accelerator physics
Alexei Sytov (Istituto Nazionale di Fisica Nucleare)

MC3 - TUP3019 Betatron Radiation Studies as a Path to Plasma Undulators
Enrica Chiadroni (Sapienza University of Rome)

MC3 - TUP3020 Simulation of Dielectric Wakefield Acceleration in Planar Structures at SwissFEL
Evan Ericson (Paul Scherrer Institute)

MC3 - TUP3021 Solving the External Injection Problem in Laser-Plasma Accelerators Using Terahertz Frequency Control
Aras Amini (University of Manchester)

MC3 - TUP3022 NEWGAIN project at GANIL: Construction of the new heavy ion injector for the superconducting LINAC
Frederic Chautard (Grand Accélérateur Nat. d'Ions Lourds)

MC3 - TUP3023 Exotic beam production at GANIL facility
Omar Kamalou (Grand Accélérateur Nat. d'Ions Lourds)

MC3 - TUP3024 Innovative Radioactive Ion Beam Production for MORA at GANIL
Pierre Delahaye (Grand Accélérateur National d'Ions Lourds)

MC3 - TUP3025 Towards Electron cooling of heavy, highly-charged ions after deceleration from 4 MeV/nucleon
Frank Herfurth (GSI Helmholtz Centre for Heavy Ion Research)

MC3 - TUP3026 Novel Source of Negative Ion and Neutral Atom Beams Driven by Laser Accelerated Positive Ions for Neutral Beam Injection (NBI) for Fusion Reactors
SARGIS TER-AVETISYAN (Extreme Light Infrastructure - Nuclear Physics)

MC3 - TUP3028 Physics Design of a High-Performance Linac for Plasma Wakefield Acceleration at IHEP
Jingyi Li (Institute of High Energy Physics)

MC3 - TUP3029 Laser-plasma accelerator based EUV-FEL plasma source development at ELI-ERIC
Alex Whitehead (Extreme Light Infrastructure Beamlines)

MC3 - TUP3030 Development of gas target systems for laser-plasma accelerators
Sebastian Lorenz (Extreme Light Infrastructure ERIC (Czech Republic))

MC3 - TUP3031 High electron charge accelerated in the SM-LWFA regime with the LMJ-PETAL laser
Xavier Davoine (CEA DAM île-de-France)

MC3 - TUP3032 Transport beam lines for laser-plama accelerators
Laury Batista (Commissariat à l'Energie Atomique et aux Energies Alternatives)

MC3 - TUP3033 High quality electron beams from laser plasma accelerator in gas cell: comparison of experiment and simulation
Lodewyk Steyn (Laboratoire de Physique des Gaz et des Plasmas)

MC3 - TUP3034 A general operating scheme for plasma-based accelerators
Samuel Marini (Commissariat à l'Energie Atomique et aux Energies Alternatives)

MC3 - TUP3035 Nonlinear transverse beam dynamics in AWAKE Run 2c
John Farmer (Max Planck Institute for Physics)

MC3 - TUP3036 Proton-driven plasma-wakefield acceleration for collider applications
John Farmer (Max Planck Institute for Physics)

MC3 - TUP3037 Measurement of the saturation length of the self-modulation instability in a plasma wakefield accelerator
Arthur Clairembaud (Max Planck Institute for Physics)

MC3 - TUP3038 Amplitude reproducibility of the self-modulation instability in a plasma wakefield accelerator
Arthur Clairembaud (Max Planck Institute for Physics)

MC3 - TUP3039 Characterization of Self-Modulation in a Plasma Wakefield Accelerator
Jan Mezger (Max Planck Institute for Physics)

MC3 - TUP3041 Density downramp injection into a discharge-based plasma acceleration stage
Lewis Boulton (Deutsches Elektronen-Synchrotron DESY)

MC3 - TUP3043 A full-energy electron injector for the EIC based on proton-driven plasma-wakefield acceleration.
Helena Jaworska (Heinrich Heine University Düsseldorf)

MC3 - TUP3044 Gaussian Process Regression and Bayesian Optimization for a 90 MeV Laser-Plasma Injector for the cSTART Storage Ring
David Squires (Karlsruhe Institute of Technology)

MC3 - TUP3045 FFA Transport Line for Laser-Plasma Accelerated Electrons
Samira Fatehi (Karlsruhe Institute of Technology)

MC3 - TUP3046 Laser-Plasma Electron Injector for the cSTART Storage Ring
Alexander Saw (Karlsruhe Institute of Technology)

MC3 - TUP3049 AWAKE: Preparing for Physics beyond LS3
Edda Gschwendtner (European Organization for Nuclear Research)

MC3 - TUP3050 Development of a length-scalable discharge plasma source for the AWAKE experiment toward 10-100 m GeV-energy plasma wakefield acceleration
Carolina Amoedo (European Organization for Nuclear Research)

MC3 - TUP3051 Numerical Simulation and Analytical Study of Highly Efficient Plasma Wakefield Injector Scheme in a Cylindrical Plasma Channel
Mariia Seniak (Lviv University)

MC3 - TUP3052 Stability Optimization of Electron Witness-Bunch Properties through Wakefield Plateau Formation
Mariia Seniak (Lviv University)

MC3 - TUP3053 Effect of laser pulse power change on wake bubble size and accelerated electron bunch parameters during LWFA in a conical plasma channel
Mariia Seniak (Lviv University)

MC3 - TUP3054 Suppression of bunch destruction under resonant excitation of the wakefield
Ilia Demydenko (V. N. Karazin Kharkiv National University)

MC3 - TUP3055 Electron Acceleration by a Wakefield Excited in Plasma by a Profiled Train of Bunches Under Conditions of Their Greatest Stability and a Plateau on the Wakefield
Ilia Demydenko (V. N. Karazin Kharkiv National University)

MC3 - TUP3056 Hose instability suppression by bunch anharmonic oscillations in weakly non-linear regime in wakefield accelerator
Ilia Demydenko (V. N. Karazin Kharkiv National University)

MC3 - TUP3057 Laser Pulse Propagation in Cone-like Plasma Channel with Non-uniform Electron Density
Ilia Demydenko (V. N. Karazin Kharkiv National University)

MC3 - TUP3058 Numerical Simulation of Enhanced Laser Wakefield Acceleration Performance in Conical Plasma Channels
Nataliia Mykhailyshyn (Lviv University)

MC3 - TUP3059 Conical Plasma Channels as an Alternative to Cylindrical Ones for the Laser Wakefield Acceleration of Externally Injected Electron Bunches
Nataliia Mykhailyshyn (Lviv University)

MC3 - TUP3060 Breakthroughs in EuPRAXIA-DN on the Path to Next-Generation Plasma Accelerators
Carsten Welsch (University of Liverpool)

MC3 - TUP3061 Challenges of Low Energy External Injection into Laser-Driven Wakefield Accelerators
Jordan Byrne (University of Manchester)

MC3 - TUP3062 Integration of Beam-Tracking and PIC Simulations for PWFA Studies at CLARA-FEBE
Jiaqi Zhang (University of Manchester)

MC3 - TUP3063 Performance analysis of the Mach-Zehnder interferometer using synthetic interferograms
Fatimah Alharthi (University of Manchester)

MC3 - TUP3064 Control of Spin Coherence in a Ring with Electrostatic Fields for Charged-Particle EDM Studies
Sergey Kolokolchikov (Russian Academy of Sciences)

MC3 - TUP3065 Spin Coherence Time Optimization by Mapping Method
Sergey Kolokolchikov (Russian Academy of Sciences)

MC3 - TUP3066 PIC simulation and characterisation on the single-charge ECR ion source in the ALISES 3 experimental ion source
Mathias Barant (Commissariat à l'Energie Atomique et aux Energies Alternatives)

MC3 - TUP3067 Testing of an 18 GHz ECRIS for highly charged metallic ions and gases
Ambra Morana (Pantechnik)

MC3 - TUP3068 WarpX Simulation of the Plasma Meniscus Effect in a Neutral Beam Injection System
Bao Nguyen (Imperial College London)

MC3 - TUP3069 Multi-Objective Bayesian Optimisation (MOBO) for High-Quality Photoinjector Optimisation
Emily Jayne Brookes (Helmholtz-Zentrum Berlin für Materialien und Energie)

MC3 - TUP3070 State-of-the-art laser-driven electron accelerators and applications at ELI - ERIC
Carlo Lazzarini (Extreme Light Infrastructure ERIC (Czech Republic))

MC3 - TUP3071 Optimized design of a C-band 100 MeV electron LINAC for FLASH radiotherapy
Stefano Farina (Sapienza University of Rome)

MC3 - TUP3072 Status of the safest project: the sapienza linac prototype for vhee flash radiotherapy
Stefano Farina (Sapienza University of Rome)

MC3 - TUP3073 Study and test of a triode gun for the flash electron LINAC @ SAPIENZA
Shoaib Akbar (Sapienza University of Rome)

MC3 - TUP3074 RF Design of the 1 kHz Photoinjector for the RUEDI Electron Diffraction Facility
Louise Cowie (ASTeC, STFC Daresbury Laboratory)

MC3 - TUP3075 Evidence for RF Breakdowns Causing Surface Anomalies on Caesium Telluride Cathode at CLARA
Amelia Pollard (Science and Technology Facilities Council)

MC3 - TUP3076 Recent dark current measurements on the CLARA S-band RF electron guns.
Frank Jackson (Science and Technology Facilities Council)

MC3 - TUP3077 Commissioning of the ELIMED Line: challenges in the selection and extraction of a laser-driven beam
Francesco Schillaci (ELI Beamlines Czech Republic)

MC3 - TUP3078 Laser wakefield acceleration in carbon nanotube bundles
Jiaqi Zhang (University of Manchester)

MC3 - TUP3079 high current accelerator-driven neutron source platform overview
Ibon Bustinduy (ESS Bilbao)

MC3 - TUP3080 FCC-ee Positron Capture System Based on 3 GHz RF Structures
Yuting WANG (Laboratoire de Physique des 2 Infinis Irène Joliot-Curie)

MC3 - TUP3081 Shielding calculations and activation studies for the PSI Positron Production experiment
Maria Ilaria Besana (Paul Scherrer Institute)

MC3 - TUP3082 100 keV Hybrid DC-RF Injector based on the Ultracold Electron Source
Ameya Patwardhan (Eindhoven University of Technology)

MC3 - TUP3301 Space-based modulating-anode particle accelerator system for controlled wave generation
Christopher Roper (Los Alamos National Laboratory)

MC3 - TUP3302 Towards a High Current Modulated Electron Beam Experiment on a Rocket or Satellite
Christopher Roper (Los Alamos National Laboratory)

MC7 - TUP7301 Mueller & Slater versus Kahan & Papas: Set the Record Straight
Shane Koscielniak (TRIUMF)

MC7 - TUP7302 Theory of Cavity Tuning with Perpendicular Biased Ferrite
Shane Koscielniak (TRIUMF)

MC7 - TUP7303 Representation of Many Interacting Resonances
Shane Koscielniak (TRIUMF)

MC7 - TUP7304 Nonlinear Solution of the Landau-Lifschitz-Gilbert Equation
Shane Koscielniak (TRIUMF)

MC7 - TUP7305 RF design and commissioning of a novel multi-harmonic buncher for the triumf 500 MeV cyclotron
Vladimir Zvyagintsev (TRIUMF)

MC7 - TUP7307 Progress on the normal conducting RF cavities for EIC hadron storage ring
Silvia Verdu-Andres (Brookhaven National Laboratory)

MC7 - TUP7308 RF design progress of the 197 MHz crab cavity for EIC
Silvia Verdu-Andres (Brookhaven National Laboratory)

MC7 - TUP7309 Conversion of 28 MHz Cavities to 24.6 MHz Cavities for the EIC Hadron Storage Ring
Silvia Verdu-Andres (Brookhaven National Laboratory)

MC7 - TUP7310 RF Design of the 49 and 98 MHz Normal-Conducting Cavities for Bunch Splitting in the EIC HSR
Silvia Verdu-Andres (Brookhaven National Laboratory)

MC7 - TUP7311 Compact Dual-Harmonic RF Kicker design for elimination of satellite bunches at ATLAS
Deeksha Sinha (Northern Illinois University)

MC7 - TUP7312 Magnetron-Based Conditioning of Low-Loss Couplers for a Conduction-Cooled Cryomodule
Neil Stilin (Thomas Jefferson National Accelerator Facility)

MC7 - TUP7313 High Gradient Testing of a Two-Cell C-band Accelerator Cavity with NiCr Higher-Order Mode Absorbers
Evgenya Simakov (Los Alamos National Laboratory)

MC7 - TUP7314 Status of the CARIE high gradient photocathode test facility at LANL
Evgenya Simakov (Los Alamos National Laboratory)

MC7 - TUP7315 Progress on upgrades to CCL resonance control at LANSCE
Wesley Hall (Los Alamos National Laboratory)

MC7 - TUP7316 Status of high power RF in the LAMP RFQ test stand
Wesley Hall (Los Alamos National Laboratory)

MC7 - TUP7317 Cavity Optimizations and Beam Dynamics Simulations for LANSCE Upgrades
Michael Kaemingk (Los Alamos National Laboratory)

MC7 - TUP7318 Ceramic Enhanced Accelerating Structure (CEAS) Optimization for Improved Shunt Impedance
Benjamin Sims (Los Alamos National Laboratory)

MC7 - TUP7319 Design and test of an X-band cavity for short-pulse RF breakdown studies
Gaurab Rijal (Northern Illinois University)

MC7 - TUP7320 A Novel Approach to RF Power Coupling in Radio-Frequency Quadrupole (RFQ) Structures: Built-in Coaxial Double-Loop Coupling Port
Sung-Woo Lee (Oak Ridge National Laboratory)

MC7 - TUP7321 Design of a Test Cavity and Iris-to-Coaxial Transition for Tuning the SNS DTL Iris Coupler
Sung-Woo Lee (Oak Ridge National Laboratory)

MC7 - TUP7322 Characterization of RF breakdown dynamics in a C-band distributed-coupling structure
Connor Gunter (SLAC National Accelerator Laboratory)

MC7 - TUP7323 Ultimate Field Measurements for SRF Cavities
Nicole Verboncoeur (Cornell University (CLASSE))

MC7 - TUP7324 Growing Nb3Sn using Chemical Vapor Deposition for high performance RF cavities
Gabriel Gaitan (Cornell University)

MC7 - TUP7325 Progress in Advanced Ferroelectric Technologies for Fast SRF Cavity Tuning
Alexei Kanareykin (Euclid Beamlabs LLC)

MC7 - TUP7326 Investigation of RF Surface Resistance in Sub-GHz Superconducting Elliptical Cavities Processed with Various Nitrogen-Doping Surface Treatments
Sean Moskaitis (Facility for Rare Isotope Beams)

MC7 - TUP7327 Demonstration of an SRF Cavity Plus Piezoelectric Tuner Using Simulink*
Jacob Brown (Facility for Rare Isotope Beams)

MC7 - TUP7328 Ponderomotive Instability Thresholds in Generator Driven SRF Cavities*
Jacob Brown (Facility for Rare Isotope Beams)

MC7 - TUP7329 Procurement and Performance of Crab Cavities for the HL-LHC
Alejandro Castilla (Thomas Jefferson National Accelerator Facility)

MC7 - TUP7330 Advancing Ferroelectric Fast Reactive Tuners at Jefferson Lab
Alejandro Castilla (Thomas Jefferson National Accelerator Facility)

MC7 - TUP7331 Design of a Ferroelectric Loaded Tuner for Rapidly Matching Varying RF Loads
Alejandro Castilla (Thomas Jefferson National Accelerator Facility)

MC7 - TUP7332 Higher Order Modes Measurement Surveys for Newly Installed CEBAF C100 and C75 Cryomodules
Haipeng Wang (Thomas Jefferson National Accelerator Facility)

MC7 - TUP7333 In-situ Unloaded Q0 of SRF Cavity Measurement Based on RF Calibration, Correction, and I/Q Digital Processing Techniques
Haipeng Wang (Thomas Jefferson National Accelerator Facility)

MC7 - TUP7334 Magnetron High Power 2x75kW Combining Experiment Result at 915MHz
Haipeng Wang (Thomas Jefferson National Accelerator Facility)

MC7 - TUP7335 Development of a 197 MHz Crab Cavity Cryomodule Design for the Electron-Ion Collider
Naeem Huque (Thomas Jefferson National Accelerator Facility)

MC7 - TUP7336 Fabrication of Horizontal Higher-Order Mode Couplers for HL-LHC at JLab
Naeem Huque (Thomas Jefferson National Accelerator Facility)

MC7 - TUP7338 Field Flatness and Mode Sensitivity in Multicell Cavities with Variable Reactances
Carlos Aguilar (Thomas Jefferson National Accelerator Facility)

MC7 - TUP7339 Development of in situ thickness sensor for vapor diffused Nb3Sn films
Katrina Howard (University of Chicago)

MC7 - TUP7340 Understanding the connections between grain growth and flux expulsion in low RRR niobium SRF cavities
Katrina Howard (University of Chicago)

MC7 - TUP7342 Digital Signal Component Separator for the LANL Solid-State Power Amplifier
Sungil Kwon (Los Alamos National Laboratory)

MC7 - TUP7343 805 MHz Klystron Modeling
Jesus Valladares (Los Alamos National Laboratory)

MC7 - TUP7344 Review of the LANSCE 805 MHZ Klystron Modulators
Jesus Valladares (Los Alamos National Laboratory)

MC7 - TUP7345 A High-Power 805 MHz RF System Based on Solid-State GaN on SiC HEMT Amplifiers for the LANSCE High-Power Proton Accelerator
Steven Russell (Los Alamos National Laboratory)

MC7 - TUP7346 High-power amplifier considerations for testing the LAMP RFQ and first DTL cavity
Maria Sanchez Barrueta (Los Alamos National Laboratory)

MC7 - TUP7347 High Power GaN Amplifier Development for Coupled Cavity Linac at LANSCE
John Lyles (Los Alamos National Laboratory)

MC7 - TUP7348 Solenoid field mapping and alignment at the Argonne Wakefield Accelerator test facility
Alexander Ody (Argonne National Laboratory)

MC7 - TUP7349 Design progress of high field quadrupole magnet for hadron storage ring injection line for the Electron-Ion Collider (EIC)
Racquel Lovelace (Brookhaven National Laboratory)

MC7 - TUP7350 Effect of the solenoid fringe field on the normal conducting quadrupole in the EIC Electron Storage Ring spin rotators
Harshita Singh (Brookhaven National Laboratory)

MC7 - TUP7351 Dynamic Magnetic Field Acquisition and Scanning Architecture
Britt Braghini (Los Alamos National Laboratory)

MC7 - TUP7352 Performance of the Stretched Wire Measurement System for the Advanced Light Source Upgrade
Cory Myers (Lawrence Berkeley National Laboratory)

MC7 - TUP7353 Magnet Measurement Techniques for the Advanced Light Source Upgrade
Erik Wallén (Lawrence Berkeley National Laboratory)

MC7 - TUP7354 Overview of the EIC Interaction Region magnet designs
Kirsten Drees (Brookhaven National Laboratory)

MC7 - TUP7355 A Thermal Model of the Conduction-Cooled Nb3Sn SCU Cryostat
Yuko Shiroyanagi (Argonne National Laboratory)

MC7 - TUP7356 ARIEL Radioactive Gas Management System
Farhad Rahimi (TRIUMF)

MC7 - TUP7357 Magnetic field measurements of decommissioned undulators at the CLS
Michael Sigrist (Canadian Light Source (Canada))

MC7 - TUP7358 Reconfiguration options for reusing a permanent magnet undulator as a low-field wiggler source
Michael Sigrist (Canadian Light Source (Canada))

MC7 - TUP7359 From NbTi to Nb3Sn and 2G-HTS: Progress on Short-Period SCUs at the APS
Ibrahim Kesgin (Argonne National Laboratory)

MC7 - TUP7360 A novel magnetic measurement system for cryogenic permanent magnet undulator
Toshiya Tanabe (Brookhaven National Laboratory)

MC7 - TUP7361 LANSCE chopper modulator modernization
Juan Alvarez Prieto (Los Alamos National Laboratory)

MC7 - TUP7362 Present status of LAMP chopper R&D
Andrew Chrysler (Los Alamos National Laboratory)

MC7 - TUP7363 Expanding Scientific Capabilities of the Electron-Ion Collider (EIC) into the Dark Sector: A Search for Light Dark Matter (LDM) Candidates via Synchrotron Beam Dumps
Minwoong Oh (Brookhaven National Laboratory)

MC7 - TUP7364 Building a MOPA Laser for H- Beam Shaping
Charles Rohde (Los Alamos National Laboratory)

MC7 - TUP7365 Compact Multi-Mode RF Loads for high-peak and high-average power applications
Sami Tantawi (Arizona State University)

MC7 - TUP7367 Progress from Testing Facility for HPRF SSA System at LANSCE CCL
Javier Vega (Los Alamos National Laboratory)

MC7 - TUP7368 ALS-U SR Modules Prestaging Planning Tool and Methodology
Jacqueline Shaw (Lawrence Berkeley National Laboratory)

MC7 - TUP7369 Testing of SLAC/Stellant High Efficiency 1.3 GHz 100 kW IOT
Mohamed Othman (SLAC National Accelerator Laboratory)

MC7 - TUP7370 Status Update of Permanent Magnet Radiation Resiliency Studies at CEBAF
Ryan Bodenstein (Thomas Jefferson National Accelerator Facility)

MC7 - TUP7371 Two-Phase Flow Characterization for Cooling Accelerators in Space: Phase 1
Taylor Roybal (Los Alamos National Laboratory)

MC7 - TUP7601 Matching the new beam loading conditions without vacuum intervention at the Australian Synchrotron light source.
Rohan Dowd (Australian Nuclear Science and Technology Organisation)

MC7 - TUP7602 High-Power Testing of X-Band High-Gradient Structures and RF Components at the Mel-BOX Facility
Matteo Volpi (The University of Melbourne)

MC7 - TUP7603 The design and test of the quasi-traveling wave parallel-coupled structure
Weihang Gu (Tsinghua University)

MC7 - TUP7604 Development of an online adjustable waveguide coupler for CSNS-II debuncher cavity
MengXu Fan (University of Science and Technology of China)

MC7 - TUP7605 The fundamental power coupler for CSNS-II elliptical cavities
MengXu Fan (University of Science and Technology of China)

MC7 - TUP7606 Physics design of a full cryogenic test platform at IHEP
Zhongtian Liu (Chinese Academy of Sciences)

MC7 - TUP7607 A compact electron linac for the X-ray based intraoperative radiotherapy
Hanlin Wan (Lanzhou University)

MC7 - TUP7608 A Tuning Method Based on Off-Axis Longitudinal Electric Field for Travelling-Wave Transverse Deflecting Cavities
Zongbin Li (Institute of Advanced Light Source Facilities Shenzhen)

MC7 - TUP7609 Design, Fabrication, and Test of A TM020-mode Cavity with Elliptical Choke for Super Tau-charm Facility
Chengzhe Wang (University of Science and Technology of China)

MC7 - TUP7610 Study of a dual-feed TM020-mode Cavity for the Super Tau-Charm Facility
Chengzhe Wang (University of Science and Technology of China)

MC7 - TUP7611 High-power experimental study on a compact C-band spherical pulse compressor
Zexin Cao (University of Science and Technology of China)

MC7 - TUP7612 High power conditioning of a high-efficiency C-band traveling-wave accelerating structure
Zexin Cao (University of Science and Technology of China)

MC7 - TUP7613 RF Design of a Compact X-band Two-stage Pulse Compression System
Zexin Cao (University of Science and Technology of China)

MC7 - TUP7614 Design and cold-test of a S-band spherical pulse compressor for beam-test platform at NSRL
Zexin Cao (University of Science and Technology of China)

MC7 - TUP7615 Design and low-power measurements of an X-band parallel-coupled accelerating structure
Zhicheng Huang (University of Science and Technology of China)

MC7 - TUP7616 RF Design of a brazing-free high repetition S-band photogun
Zhicheng Huang (University of Science and Technology of China)

MC7 - TUP7617 Design of an improved S-Band SLED Pulse Compressor
Pengbin Huang (University of Science and Technology of China)

MC7 - TUP7618 Design of an X-Band Compact Mode Converter for Converting TE10 Mode to TE01 Mode
Zhicheng Huang (University of Science and Technology of China)

MC7 - TUP7619 Design of a C-band Compact Phase Shifter for Particle Accelerators
Zishuo Zhang (University of Science and Technology of China)

MC7 - TUP7620 Research on Indirect Measurement Algorithms for Accelerator Tubes Based on Convolutional Neural Networks
Qingzhu Li (Tsinghua University)

MC7 - TUP7621 Design and Theoretical Analysis of a Highly Compact Triple-folded 20 MHz Quarter-Wave Cavity for SSMB
Peizhi Fang (Tsinghua University)

MC7 - TUP7622 Design of an X-band beam generation module for FLASH Radiation Therapy
Zihe Gao (Shanghai Institute of Applied Physics)

MC7 - TUP7623 Design and implementation of ridge waveguides for dual-mode microwave structure
Xiaoxia Huang (Shanghai Synchrotron Radiation Facility)

MC7 - TUP7624 Design of 166 MHz and 500 MHz Bimodal RF Cavities Based on Coaxial Coupling
Dinghui Su (Shanghai Institute of Applied Physics)

MC7 - TUP7625 Application of Magnetic-Alloy-Loaded Cavities Beyond 10MHz
Chihiro Ohmori (Japan Proton Accelerator Research Complex)

MC7 - TUP7626 Design and construction of a HOM-damped TM020 type harmonic cavity for luminosity enhancement in RI-electron scattering
Masanori Wakasugi (Kyoto University)

MC7 - TUP7627 Beam test of C-band Compact Accelerating Structure made of Longitudinally-Split Two Halves
Masashi Kimura (Mitsubishi Heavy Industries Machinery Systems, Ltd.)

MC7 - TUP7628 Precise Frequency-tuning of S-band Pulse Compressors in High-power Operation in the Electron and Positron Injector Linac of KEK
Hiroyasu Ego (High Energy Accelerator Research Organization)

MC7 - TUP7629 Assessment of RF System Capability in the J-PARC Main Ring Toward 1.3 MW Operation
Kiyomi Seiya (High Energy Accelerator Research Organization)

MC7 - TUP7630 Fabrication and RF Tests of a 1.3-GHz 9-Cell Copper Cavity at room temperature as a Process Qualification Step for Nb Super Conducting Cavity Production
SeongJae Choi (Korea University)

MC7 - TUP7631 Development of a Computer Vision Based Inner Surface Inspection System for Cavity
SeongJae Choi (Korea University)

MC7 - TUP7632 Development and operation of 166.6 MHz SRF modules at HEPS
Pei Zhang (Institute of High Energy Physics)

MC7 - TUP7633 Preliminary Design of Motor Drivers for the Shenzhen Superconducting Soft X-ray Free Electron Laser
Zhiyuan Zhang (Institute of Advanced Light Source Facilities, Shenzhen)

MC7 - TUP7634 preliminary physics design of 1.3 GHz superconducting electron gun
XiongHao Yuan (Shanghai Institute of Applied Physics, Chinese Academy of Sciences)

MC7 - TUP7635 Mass Production of 1.3GHz cavities and performance analysis for SHINE project
Hongtao Hou (Shanghai Advanced Research Institute)

MC7 - TUP7636 Status of the high-Q cryomodule production for SHINE project
Hongtao Hou (Shanghai Advanced Research Institute)

MC7 - TUP7637 Electromagnetic-thermal coupling study of the SHINE injector cavity
Xinghao Guo (Shanghai Advanced Research Institute)

MC7 - TUP7638 DESIGN AND FABRICATION OF WAVEGUIDE HOM-DAMPING 1.3 GHz SRF CAVITY PROTOTYPE
Weizong Chen (ShanghaiTech University)

MC7 - TUP7639 Studies On Plasma Processing For 1.3GHz Mid-T Baked Cavity at SARI
Hongtao Hou (Shanghai Advanced Research Institute)

MC7 - TUP7640 Design and vertical test of a passive 3rd harmonic superconducting cavity for HALF storage ring
Yelong Wei (University of Science and Technology of China)

MC7 - TUP7641 Quantum Ground State Energy of Various Cavities
Juwan Kim (Institute for Basic Science)

MC7 - TUP7642 Design and Pre-production Status of the SSR2 Cavity and Cryomodule at IRIS
Juwan Kim (Institute for Basic Science)

MC7 - TUP7643 RF conditioning and development of fundamental power couplers for RAON cryomodules
YooLim Cheon (Institute for Basic Science)

MC7 - TUP7644 Development of a Novel Solid-State Modulator and Its Application in High-Power Klystrons
Zichen Zhong (University of Science and Technology of China)

MC7 - TUP7645 HPRF System for Injector Section of RAON Low-energy Superconducting Linac
Kyungtae Seol (Institute for Basic Science)

MC7 - TUP7647 Current Status of the Upgrade and Operation of the NSRRC TPS LINAC Pulse High-Power RF System
Wei-Yuan Chiang (National Synchrotron Radiation Research Center)

MC7 - TUP7648 Cavity combiner prototype performance at NSRRC
Ming-Chyuan Lin (National Synchrotron Radiation Research Center)

MC7 - TUP7649 Commissioning and Optimization of the Fifth Solid-State RF Transmitter for the Taiwan Photon Source
Ming-Chyuan Lin (National Synchrotron Radiation Research Center)

MC7 - TUP7650 Advancing Network Infrastructure under Multi-Access Wireless Coverage at the NSRRC
Ming-Chyuan Lin (National Synchrotron Radiation Research Center)

MC7 - TUP7651 Magnet Measurements of the HALF Magnets
BaoHou Liu (University of Science and Technology of China)

MC7 - TUP7652 Impedance and magnet field analysis of the septum in Hefei Advanced Light Facility
Wenbin Song (University of Science and Technology of China)

MC7 - TUP7653 Progress in the p.m. based LGBM magnets for K-4GSR
YoungGyu Jung (Pohang Accelerator Laboratory)

MC7 - TUP7654 Measurements of Magnet Prototypes for Storage Ring of Siam Photon Source II
Thongchai Leetha (Synchrotron Light Research Institute)

MC7 - TUP7655 Validation of an Improved Quadrupole Design for the 3 GeV SPS-II Storage Ring.
Thongchai Leetha (Synchrotron Light Research Institute)

MC7 - TUP7656 Simulation of Screening-Current-Induced Field in ReBCO Bending Magnets for Hefei Advanced Light Facility Under Different Excitation Strategies
Jincheng Xia (University of Science and Technology of China)

MC7 - TUP7657 Design and construction of the twin-aperture superconducting quadrupole magnets prototype for the STCF interaction region
Wenbin Ma (High Magnetic Field Laboratory)

MC7 - TUP7658 Development a non-insulated CCT dipole prototype wound with non-twisted stacked REBCO tapes
Rui Kang (Institute of High Energy Physics, Chinese Academy of Sciences)

MC7 - TUP7660 Strain gauge implementation for a Nb_3 Sn superconducting multipole wiggler developed in KEK Photon Factory.
Shota Nishi (The Graduate University for Advanced Studies, SOKENDAI)

MC7 - TUP7661 Characterization of wet-wound insulated 2G-HTS tape in a dewar
Chin-Kang Yang (National Synchrotron Radiation Research Center)

MC7 - TUP7662 Magnetic Circiut Design for TPS BTS Permanent Dipole
Chin-Kang Yang (National Synchrotron Radiation Research Center)

MC7 - TUP7663 Design of a Precision Clock Unit for the Injection Kicker Pulsed Power Supply in the BEPCII-U Storage Ring
Peng Liu (Chinese Academy of Sciences)

MC7 - TUP7664 High-voltage nanosecond power supply simulation
Chunyu Xu (University of Science and Technology of China)

MC7 - TUP7665 Multi-channel high-power desity power supply for klystron solenoid
Zhouyu Zhao (University of Science and Technology of China)

MC7 - TUP7666 Development of a Fast-feedback Deflector Magnet Power Supply for The Next Generation Heavy Ion Therapy
Katsuya Okamura (High Energy Accelerator Research Organization)

MC7 - TUP7667 Comparative Analysis of Isolated Topologies for High-Voltage Capacitor Charging Power Supplies
Sang wha Seo (Korea Basic Science Institute)

MC7 - TUP7668 Development of a Modular Magnet Power Supply with Parallel Operation for the Korea-4GSR Storage Ring
Hyeonjun Jang (Pohang Accelerator Laboratory)

MC7 - TUP7669 Development of a GaN-FET-Based Fast Corrector Magnet Power Supply for the TPS
Bao-Sheng Wang (National Synchrotron Radiation Research Center)

MC7 - TUP7670 Design and Optimizations of a 1.5GHz-Superconducting-cavity cryostat
Yelong Wei (University of Science and Technology of China)

MC7 - TUP7671 Preliminary Design of HALF High-Temperature Superconducting Bending Magnet Cryostat
Jincheng Xia (University of Science and Technology of China)

MC7 - TUP7672 A Dual-System Approach for Upgrading the Helium Cryogenic System at the Taiwan Photon Source
Ping-Shun Chuang (National Synchrotron Radiation Research Center)

MC7 - TUP7673 Improvement to sustain the thermal insulation vacuum of a liquid nitrogen cooling system for the cryogenic permanent undulator at TPS
Ping-Shun Chuang (National Synchrotron Radiation Research Center)

MC7 - TUP7674 Effect of Surface Roughness on Boiling Heat Transfer Mechanisms in a Liquid Nitrogen Cooling System
Ping-Shun Chuang (National Synchrotron Radiation Research Center)

MC7 - TUP7675 The delaying effect of inert gases on deconditioning
Yigang Wang (Institute of High Energy Physics, Chinese Academy of Sciences)

MC7 - TUP7676 A novel method for preparing low secondary electron yield carbon films
Yigang Wang (Institute of High Energy Physics, Chinese Academy of Sciences)

MC7 - TUP7677 Machine Learning-Based Status Monitoring and Fault Prediction for Vacuum Systems at the CSNS
Bangle Zhu (Institute of High Energy Physics, Chinese Academy of Sciences)

MC7 - TUP7678 Investigation on Alignment Coordinate Calculation for Vacuum Chambers in Fourth-Generation Synchrotron Radiation Light Sources
Bangle Zhu (Institute of High Energy Physics, Chinese Academy of Sciences)

MC7 - TUP7679 Batch Deposition and Sorption Properties of Non-Evaporable Getter (NEG) Films for HEPS Applications
Bangle Zhu (Institute of High Energy Physics, Chinese Academy of Sciences)

MC7 - TUP7680 Investigation on the vacuum properties of Al-TiZrV bilayer films
Xinyu Jin (University of Science and Technology of China)

MC7 - TUP7681 Advances in large-scale non-evaporable getter coating techniques for the hefei advanced light facility
Xiaopeng Xu (University of Science and Technology of China)

MC7 - TUP7682 Preliminary study on the vacuum performance of NEG coated vacuum chambers after venting-activation cycles and storage
Xiaopeng Xu (University of Science and Technology of China)

MC7 - TUP7683 Study on the vacuum properties of Pd/Ti bilayer thin films
Tao Guo (University of Science and Technology of China)

MC7 - TUP7684 Design of distributed pumping system using NEG strip for HALF
Tianlong He (University of Science and Technology of China)

MC7 - TUP7685 Preparation of NEG Coatings Based on Tandem Composite Targets and the Laws Governing Their Performance Influences
Geng Wei (Wuhan University)

MC7 - TUP7686 Finite-element analysis of low impedance ultra-high vacuum flange
Baoyuan Bian (High Energy Accelerator Research Organization)

MC7 - TUP7687 Investigation of outgassing properties of CuZr and CuCrZr vacuum pipes
Tianlong He (University of Science and Technology of China)

MC7 - TUP7688 Antechamber type vacuum chamber coated with non-evaporable getter films

MC7 - TUP7689 Design of Photon Absorbers for the SPring-8-II Vacuum System
Hideki Dewa (Japan Synchrotron Radiation Research Institute)

MC7 - TUP7690 Beam lifetime evaluation based on simulation of a vacuum pressure distribution for the SPring-8-II commissioning strategy through vacuum conditioning
Yosuke Ueda (Japan Synchrotron Radiation Research Institute)

MC7 - TUP7692 X-Ray Photoelectron Spectroscopy Study of Activation Process for Pill-Type Non-Evaporable Getter Pumps
Jiwon Jung (Korea Basic Science Institute)

MC7 - TUP7693 Current status of TPS vacuum system
Yi-Chen Yang (National Synchrotron Radiation Research Center)

MC7 - TUP7694 Titanium Coating Improvement Study for TPS NIK Ceramic Chamber
Yi-Chen Yang (National Synchrotron Radiation Research Center)

MC7 - TUP7695 Development and Validation of Aluminum Vacuum Chamber Prototypes for the SPS-II Storage Ring
Thanapong Phimsen (Synchrotron Light Research Institute)

MC7 - TUP7696 Virtual magnetic field shimming for the Hefei Advanced Light Facility undulators
Binghao Zhang (University of Science and Technology of China)

MC7 - TUP7697 Mass Production and Installation of Undulators for SHINE
jinya chen (Shanghai Advanced Research Institute, Chinese Academy of Sciences)

MC7 - TUP7698 Analysis and Refurbishment of a Radiation-Damaged Undulator
jinya chen (Shanghai Advanced Research Institute, Chinese Academy of Sciences)

MC7 - TUP7699 Design of a Compact Hybrid Planar Undulator
Jun Wang (Shanghai Advanced Research Institute)

MC7 - TUP7700 A Flip Coil Magnetic Measurement System with Adjustable Coil Width and Linear Tension Control for Undulator Testing
Jie Yang (Shanghai Advanced Research Institute)

MC7 - TUP7701 Readiness of High-Temperature Superconducting Undulator Technology for Integration into Free-Electron Lasers
Kai ZHANG (Zhangjiang Laboratory)

MC7 - TUP7702 Insertion devices for SPring-8-II
Yuichiro Kida (Japan Synchrotron Radiation Research Institute)

MC7 - TUP7703 Development of an attractive force measurement system for In-Vacuum Undulator for SPring-8-II
Kei IMAMURA (Japan Synchrotron Radiation Research Institute)

MC7 - TUP7704 Improvement and Optimization of a Permanent-Magnet Phase Shifter
Chih-Sheng Yang (National Synchrotron Radiation Research Center)

MC7 - TUP7705 Sustainability-Oriented Cryogenic Permanent Magnet Undulator
Jui-Che Huang (National Synchrotron Radiation Research Center)

MC7 - TUP7706 Function of the damper in a pulsed wire measurement system
Ting-Yi Chung (National Synchrotron Radiation Research Center)

MC7 - TUP7707 Efficient Design of an 8-Conductor Nonlinear Kicker for HALF Using a Python-Based Toolchain
Weibo Hu (University of Science and Technology of China)

MC7 - TUP7708 High-precision current feedback control of a MHz kicker magnet system for the SHINE
Sheying LI (Shanghai Advanced Research Institute, Chinese Academy of Sciences)

MC7 - TUP7709 Design and Experiment of Energy Feedback Unit for 15 kV/15 kA AMD Excitation Pulse Source
Weibo Hu (University of Science and Technology of China)

MC7 - TUP7710 Offline Characterization of Closed-Orbit Errors in the Dual-Channel Kicker Injection System of HALF
Feng-lei Shang (University of Science and Technology of China)

MC7 - TUP7711 Evaluation and Mitigation of Residual Magnetic Field from the High-Voltage Pulse Power Supply for the Beam Kicker in the Muon g-2/EDM Experiment
Yuta Kawase (Iwate University)

MC7 - TUP7714 Pulsed Magnets Development for Thailand's SPS-II
Taylor Yan (Synchrotron Light Research Institute)

MC7 - TUP7715 Mechanical design and structural analysis of septum magnet for Thailand new synchrotron light source
Nattakit Chaijaroenmaitree (Chulalongkorn University)

MC7 - TUP7716 Optimizing the Design and Data Processing of Tunnel Control Network for Particle Accelerator
Enchen Wu (University of Science and Technology of China)

MC7 - TUP7717 Magnetic center measurement and fiducialization method for half
BaoHou Liu (University of Science and Technology of China)

MC7 - TUP7718 Alignment error analysis based on HALF lattice
qiuyu zhang (University of Science and Technology of China)

MC7 - TUP7719 Beam dump design and simulation for a 280-MeV electron linear accelerator
Kritsada Kittimanapun (Synchrotron Light Research Institute)

MC7 - TUP7720 Active Compensation for Cavity Mirror Thermal Deformation in High-power Optical Enhancement Cavity
Zhou Yang (Tsinghua University)

MC7 - TUP7721 Implementation of a Dual-Pulse UV Laser System for Two-Bunch Mode at PAL-XFEL
Seong-Hoon Kwon (Pohang Accelerator Laboratory)

MC7 - TUP7722 High-Precision PCB-Based Rotating Coil System for Multipole Magnet Measurements in the 4GSR Storage Ring
Yoon Geol Choi (Pohang University of Science and Technology)

MC7 - TUP7723 Construction of Permanent Magnet Arrays without Custom Materials
Adam Steinberg (The University of Melbourne)

MC7 - TUP7724 Design of High-Field Permanent Dipole Magnet with Ultra Low Leakage Field
Zihan Wang (University of Science and Technology of China)

MC7 - TUP7725 Septum magnet based on permanent magnet for HALF
Weibo Hu (University of Science and Technology of China)

MC7 - TUP7726 High-efficiency neutron transport using magnetic gradient with permanent magnets
Yoshihisa Iwashita (The University of Osaka)

MC7 - TUP7727 Development of High-Gradient, Fast-Response, Broadband RF Systems Employing Magnetic-Alloy-Loaded Cavities for the HIAF Booster Ring
Yan Cong (Institute of Modern Physics, Chinese Academy of Sciences)

MC7 - TUP7728 Key Technologies for the Vacuum System of the High Intensity Heavy Ion Accelerator Facility
wenjun Xie (Institute of Modern Physics, Chinese Academy of Sciences)

MC7 - TUP7729 325 MHz digital low-level RF control system with dynamic gain adjustment for a dual-port RFQ
Ruifeng Zhang (Institute of Modern Physics, Chinese Academy of Sciences)

MC7 - TUP7730 Development and Vacuum Performance Evaluation of PEEK 30% CF Vacuum Chambers for High-Repetition-Rate Particle Accelerators
Ningfei Wei (Institute of Modern Physics, Chinese Academy of Sciences)

MC7 - TUP7731 Enhanced superconducting properties of Nb films via a high-power impulse magnetron re-sputtering/sputtering approach for Nb-Cu 1.3 GHz RF cavities
JianJun XIAO (ShanghaiTech University)

MC8 - TUP8001 Optical emission spectroscopy for beam stability monitoring and plasma characterization at MedAustron
Piera Galeazzo (TU Wien)

MC8 - TUP8002 Compact X-Band Linear Accelerators Design for On-Site Industrial Applications
Manon Boucard (AVELION)

MC8 - TUP8003 Installation qualification of the semi-industrial Circe III e-beam accelerator
Mohamed Hedi TRABELSI (CNSTN)

MC8 - TUP8004 Measured properties of the mixed helium and carbon ion beam at MedAustron
Matthias Kausel (EBG MedAustron GmbH)

MC8 - TUP8005 ELIMAIA-ELIMED: An Operational Beamline for Radiobiology Experiments with Laser-Driven Proton Beams
Pavel Blaha (Extreme Light Infrastructure ERIC (Czech Republic))

MC8 - TUP8006 Oxygen and LET influence on cell response to 12C-FLASH
Kilian Lecrosnier (Centre de Recherche sur les Ions, les Matériaux et la Photonique)

MC8 - TUP8007 Commisioning of a new Beamline for Medical research and Radiation Hardness Testing
Jürgen Bundesmann (Helmholtz-Zentrum Berlin für Materialien und Energie)

MC8 - TUP8008 Ultra-high dose-rate irradiation experiments at FLUTE
Miriam Brosi (Karlsruhe Institute of Technology)

MC8 - TUP8009 Advancements and dosimetry of a single-turn extraction for FLASH radiotherapy studies at ELSA
Leonardo Thome (University of Bonn)

MC8 - TUP8010 Design and Simulation of a 6 MeV S-Band RF Cavity for Compact Medical Linear Accelerators
Zahra Pouyanrad (Amirkabir University of Technology)

MC8 - TUP8011 Test of c-band electron linac for flash radiotherapy
Lucia Giuliano (Sapienza University of Rome)

MC8 - TUP8012 Beam Induced Fluorescence experiments for Ultra-High-Dose-Rate dosimetry in proton therapy
Thomas Fogg (Particle Therapy Research Center)

MC8 - TUP8013 Evaluation of orbit correction methods for the Helium Light Ion Compact Synchrotron HeLICS
Foteini Asvesta (European Organization for Nuclear Research)

MC8 - TUP8014 ATSOA at CERN: A Hands On Accelerator Course in the EURO-LABS Framework
Foteini Asvesta (European Organization for Nuclear Research)

MC8 - TUP8015 Studies on the impact of the beam time structure on VHEE/FLASH irradiation biological effects
Wilfrid Farabolini (European Organization for Nuclear Research)

MC8 - TUP8016 Development of VHEE Scattering Systems for FLASH Radiotherapy
Wilfrid Farabolini (European Organization for Nuclear Research)

MC8 - TUP8017 Instantaneous Dose Rate Controls the FLASH Effect and Morphogenesis Sparing in Zebrafish Embryos Exposed to VHEE.
Pierre Korysko (University of Oxford)

MC8 - TUP8018 A Status update of LhARA, an Accelerator-driven Radiobiology Research Initiative
William Shields (Royal Holloway University of London)

MC8 - TUP8019 Development of an ion beam analysis setup at the Bonn Isochronous Cyclotron
Henry Schumacher (University of Bonn)

MC8 - TUP8020 Preparatory operational phase for an internal target in the Arronax cyclotron C70XP
Freddy Poirier (Cyclotron ARRONAX)

MC8 - TUP8021 Simβ-AD Project: Methodology to Asses Activation of Radioactive Waste Produced by Cyclotron Facilities
Jean-Michel Horodynski (Centre National de la Recherche Scientifique)

MC8 - TUP8022 CERN Innovation Programme on Environmental Applications (CIPEA): leveraging accelerator technologies for environmental impact
Enrico Chesta (European Organization for Nuclear Research)

MC8 - TUP8023 Radiation-Induced Structural Evolution in TiO2-ZrO2 Nano-Oxide Composites for Accelerator Shielding Applications
Milena Yazichyan (Center for the Advancement of Natural Discoveries using Light Emission)

MC8 - TUP8024 First Beam Dosimetry Assessment of FLASHlab@PITZ Beamline Extension
Matthias Gross (Deutsches Elektronen-Synchrotron DESY)

MC8 - TUP8025 Theoretical and Numerical Studies of the Effects of Ultra-High Dose Rate Pulses
Bennet Krasch (Karlsruhe Institute of Technology)

MC8 - TUP8026 Irradiation-Induced Degradation Mechanisms in RFQ Cavities
Emmanouil Trachanas (European Spallation Source)

MC8 - TUP8027 Estimation of Radiation Field for BDF/SHiP at CERN
Roberto Cala' (European Organization for Nuclear Research)

MC8 - TUP8029 The TIARA Collaboration: Shaping Two Decades of EU Support for Coordinated Accelerator R&D
Jose Manuel Perez (Centro de Investigaciones Energéticas, Medioambientales y Tecnològicas)

MC8 - TUP8030 Strengthening Europe's Accelerator Ecosystem: The Role of the Accelerator Science and Technology Industry Permanent Forum (AIPF)
Josef Troxler (Ampegon Power Electronics AG)

MC8 - TUP8031 Joint Development of Superferric Corrector Magnets for HL-LHC
Giovanna Vandoni (European Organization for Nuclear Research)

MC8 - TUP8032 Towards a Community of Practice in Project Management of Particle Accelerator and Big-Science Projects: The AcceleratePM Initiative
Giovanna Vandoni (European Organization for Nuclear Research)

MC8 - TUP8033 FAIR Project Management
Natalya Winters (GSI Helmholtz Centre for Heavy Ion Research)

MC8 - TUP8034 The CERN Accelerator School - a shining beacon in the training landscape of accelerator science and technology
Frank Tecker (European Organization for Nuclear Research)

MC8 - TUP8035 accelECR: the Early Career Researcher network in Accelerator Science and Technology
Rebecca Taylor (European Organization for Nuclear Research)

MC8 - TUP8036 test abstract Nicolas Delerue
Nicolas Delerue (Université Paris-Saclay, CNRS/IN2P3, IJCLab)

MC8 - TUP8301 WarpX PIC Simulations of Negative-Ion Neutral Beam Injection and Photon Neutralization
Kai Shih (Realta Fusion)



Wednesday, May 20, 2026

Oral programme 230

Poster Session 234

Only one author is identified in this document due to space constraints. The full and final version can be found in the conference application during the conference and in the proceedings afterwards.

Oral programme

WEI1T MC1 - Colliders and other Particle Physics Accelerators (Invited)

May 20, 2026 **9:00 AM / 10:30 AM**

Chair: Fulviat Pilat (ORNL)

WEI1T01 **9:00 AM**

A quarter century of RHIC @ performance far beyond design

Michiko Minty (Brookhaven National Laboratory)

WE01T MC1 - Colliders and other Particle Physics Accelerators (Contributed)

May 20, 2026 **9:00 AM / 10:30 AM**

Chair: Fulviat Pilat (ORNL)

WE01T01 **9:30 AM**

First synchrotron injection attempt into the SuperKEKB HER

Naoko Iida (High Energy Accelerator Research Organization)

WE01T02 **9:50 AM**

Performance Strategy for the First Years of the EIC Science Program

Alexei Blednykh (Brookhaven National Laboratory)

WE01T03 **10:10 AM**

Near Resonance Polarization Modulation (NRPM), a Novel Method for High Precision Beam Energy Measurement in Storage Rings

Yi Wu (Ecole Polytechnique Fédérale de Lausanne)

WEI8M MC8 - Applications of Accelerators, Technology Transfer and Industrial Relations and Outreach (Invited)

May 20, 2026 **9:00 AM / 10:30 AM**

Chair: Prapong Klysubun (SLRI)

WEI8M01 **9:00 AM**

Accelerator-based lithography and the Induction Storage Ring Light Source

Michael Ehrlichman (SLAC National Accelerator Laboratory)

WEO4M MC4 - Hadron Accelerators (Contributed)

May 20, 2026 **9:00 AM / 10:30 AM**

Chair: Prapong Klysubun (SLRI)

WEO4M01 **9:30 AM**

Development and commissioning of normal conducting ion linacs: the INFN experience.

Francesco Grespan (Istituto Nazionale di Fisica Nucleare)

WEO4M02 **9:50 AM**

Beam Tests of a Permanent Magnet Medical Accelerator Arc from 10-250MeV

Stephen Brooks (Brookhaven National Laboratory)

WEO4M03 **10:10 AM**

GANIL-SPIRAL2 4 years in operation

Omar Kamalou (Grand Accélérateur Nat. d'Ions Lourds)

WEI5M MC5 - Beam Dynamics and Electromagnetic Fields (Invited)

May 20, 2026 **11:00 AM / 12:30 PM**

Chair: Mamad Eshraqi (ESS)

WEI5M01 **11:00 AM**

Overview of crab cavities for light sources and particle colliders

Rama Calaga (European Organization for Nuclear Research)

WEO5M MC5 - Beam Dynamics and Electromagnetic Fields (Contributed)

May 20, 2026 **11:00 AM / 12:30 PM**

Chair: Mamad Eshraqi (ESS)

WEO5M01 **11:30 AM**

Beam Dynamics Challenges and Optics Development for the PERLE Multi-Turn ERL

Alex Fomin (Université Paris-Saclay, CNRS/IN2P3, IJCLab)

WEO5M02 **11:50 AM**

Transport of dark current through the Linac to End Station A beamline at LCLS

Sean Littleton (SLAC National Accelerator Laboratory)

WEO5M03 **12:10 PM**

On the optimization of the non-linear performance of 4th-generation light sources

Bettina Kuske (Helmholtz-Zentrum Berlin für Materialien und Energie)

WEI3T MC3 - Novel Particle Sources and Acceleration Techniques (Invited)

May 20, 2026 **11:00 AM / 12:30 PM**

Chair: Enrica Chiadroni (La Sapienza)

WEI3T01 **11:00 AM**

Controlled injection and acceleration of 10 GeV-class electron beams in a laser wakefield accelerator

Alex Picksley (Lawrence Berkeley National Laboratory)

WEO3T MC3 - Novel Particle Sources and Acceleration Techniques (Contributed)

May 20, 2026 **11:00 AM / 12:30 PM**

Chair: Enrica Chiadroni (La Sapienza)

WEO3T01 **11:30 AM**

Plasma Discharge Undulator: a novel concept for plasma-based radiation sources

Andrea Frazzitta (Istituto Nazionale di Fisica Nucleare)

WEO3T02 **11:50 AM**

Short-pulse driven photogun for very hard x-ray free-electron laser

Wei Hou Tan (SLAC National Accelerator Laboratory)

WEO3T03 **12:10 PM**

A Portable Muon Source for artificial muon muography

Masao Kuriki (Hiroshima University)

WEI5M MC5 - Beam Dynamics and Electromagnetic Fields (Invited)

May 20, 2026 **2:00 PM / 4:00 PM**

Chair: Marco Marchetto (TRIUMF)

WEI5M02 **2:00 PM**

Manipulating and diagnosing electron beam with cross-plane coupling in transverse and longitudinal phase spaces

Seongyeol Kim (Pohang University of Science and Technology)

WEI5M03 **2:30 PM**

Realization of high-intensity beams with smaller emittance without a transverse feedback system

Yoshihiro Shobuda (Japan Proton Accelerator Research Complex)

WE05M MC5 - Beam Dynamics and Electromagnetic Fields (Contributed)

May 20, 2026 **2:00 PM / 4:00 PM**

Chair: Marco Marchetto (TRIUMF)

WE05M04 **3:00 PM**

Benchmarking of Optics Correction Tools for Fourth-Generation Light Sources and Future Colliders

Elaf Musa (Deutsches Elektronen-Synchrotron DESY)

WE05M05 **3:20 PM**

Low-emittance, Low-charge optimization of the Argonne Wakefield Accelerator for the Nanopatterned Microbunching Experiment

Rachel Margraf-O'Neal (Argonne National Laboratory)

WE06M MC6 - Beam Instrumentation, Controls, Feedback & Operational Aspects (Contributed)

May 20, 2026 **2:00 PM / 4:00 PM**

Chair: Marco Marchetto (TRIUMF)

WE06M01 **3:40 PM**

AI and machine learning techniques for LNL accelerators

Ysabella Kassandra Ong (Istituto Nazionale di Fisica Nucleare)

Poster Session

WEV

Wednesday Poster Session
(Invited poster)

May 20, 2026 **4:00 p.m. / 6:00 p.m.**

MC1 - WEV1301 Accelerator Design Educational Primer - Conceptualizing and Optimizing the Hybrid LHeC-like Electron-Ion Collider Design
Andrei Seryi (Old Dominion University)

MC4 - WEV4301 Commissioning of the IOTA proton injector
Aleksandr Romanov (Fermi National Accelerator Laboratory)

MC4 - WEV4302 First experimental demonstration of using a crab-crossing collision scheme for efficient laser-to-ion beam interaction
Alexander Aleksandrov (Oak Ridge National Laboratory)

MC5 - WEV5002 Bunch lenghtening with double- and triple-rf systems for MAX4U
Murilo Barbosa Alves (MAX IV Laboratory)

MC6 - WEV6001 Overview of the RF based beam diagnostic monitors of HIPA at PSI
Jilei Sun (Paul Scherrer Institute)

MC6 - WEV6002 A Low Cost Picoseconds Precision Timing and Synchronization Over A Kilometer
Alice Renaux (Centre National de la Recherche Scientifique)

MC6 - WEV6003 Moonlight on the Serengeti: Casting (Digital) Shadows with NALA, SIMBA, PUMBAA and Friends
James Jones (Science and Technology Facilities Council)

WEP

Wednesday Poster Session

(Poster Presentation)

May 20, 2026 **4:00 p.m. / 6:00 p.m.**

MC1 - WEP1301 RHIC Au-Au Operation at 100 GeV in Run 25
Kiel Hock (Brookhaven National Laboratory)

MC1 - WEP1302 Measurement of the effective ZDC cross section for the RHIC polarized proton run in 2022
Kirsten Drees (Brookhaven National Laboratory)

MC1 - WEP1303 RHIC superconducting circuit failure during run 23
Frederic Micolon (Brookhaven National Laboratory)

MC1 - WEP1304 Injecting and Ramping Trapped Beam in Hadron Accelerator
Steve Peggs (Brookhaven National Laboratory)

MC1 - WEP1305 Transition Crossing with Reduced Number of Jump Quadrupoles in RHIC
Steve Peggs (Brookhaven National Laboratory)

MC1 - WEP1306 Update on Injection Optics into the Electron Ion Collider Hadron Storage Ring
Vincent Schoefer (Brookhaven National Laboratory)

MC1 - WEP1307 Hadron Storage Ring Spin Rotators & Spin Tune Compensation
Kiel Hock (Brookhaven National Laboratory)

MC1 - WEP1308 Determination of the sPHENIX background source with tracking
Kiel Hock (Brookhaven National Laboratory)

MC1 - WEP1309 Nonlinear Dynamics study from Coupled Beam-Beam and Space-Charge Effects in a Realistic Collider Lattice
Helena Alamprese (Facility for Rare Isotope Beams)

MC1 - WEP1311 Investigations of Non-Linear Optics Control Knobs for the FCC-ee
Patrick Hunchak (University of Saskatchewan)

MC1 - WEP1312 Sensitivity of High Order Optics to Field Errors and Misalignments in the FCC-ee
Patrick Hunchak (University of Saskatchewan)

MC1 - WEP1313 Chromaticity compensation of a ghost collider
Bamunuvita Gamage (Thomas Jefferson National Accelerator Facility)

MC1 - WEP1314 Two-System RF Ramping for the EIC Rapid Cycling Synchrotron
Bamunuvita Gamage (Thomas Jefferson National Accelerator Facility)

MC1 - WEP1315 Beam-beam Effects in Future Recycling Linear e+e- Colliders
Vladimir Litvinenko (Stony Brook University)

MC1 - WEP1316 Coherent electron Cooling experiment at Relativistic Heavy Ion Collider
Vladimir Litvinenko (Stony Brook University)

MC1 - WEP1317 Hadron beam heating in collisions with electron beam
Vladimir Litvinenko (Stony Brook University)

MC1 - WEP1318 Progress of the RF Systems for the Electron-Ion Collider
Silvia Verdu-Andres (Brookhaven National Laboratory)

MC1 - WEP1319 Design Maturity and Technical Readiness of the Electron - Ion Collider (EIC)
Luisella Lari (Brookhaven National Laboratory)

MC1 - WEP1320 High power BLA test update and path forward for EIC BLA
Wencan Xu (Brookhaven National Laboratory)

MC1 - WEP1321 High power fpc progress for EIC ESR cavities
Wencan Xu (Brookhaven National Laboratory)

MC1 - WEP1322 Dynamic multipoles in the EIC Rapid Cycling Synchrotron
Boris Podobedov (Brookhaven National Laboratory)

MC1 - WEP1323 Results from the ripple tests on dipole magnets to study field attenuation
Harshita Singh (Brookhaven National Laboratory)

MC1 - WEP1324 High-intensity Beam Accumulator Ring for Electron-Ion Collider
Victor Smaluk (Brookhaven National Laboratory)

MC1 - WEP1325 Impedance analysis for the EIC Beam Accumulator Ring
Victor Smaluk (Brookhaven National Laboratory)

MC1 - WEP1326 Analytical Estimates of Beam Intensity Limitations in the EIC Beam Accumulator Ring
Victor Smaluk (Brookhaven National Laboratory)

MC1 - WEP1327 Bunch shortening simulations by RF modulation in the EIC Beam Accumulator Ring
Victor Smaluk (Brookhaven National Laboratory)

MC1 - WEP1328 Status of RCS Optics
William Bergan (Brookhaven National Laboratory)

MC1 - WEP1329 RCS Error Tolerance Studies
William Bergan (Brookhaven National Laboratory)

MC1 - WEP1330 Update of the EIC HSR injection system design
Chuyu Liu (Brookhaven National Laboratory)

MC1 - WEP1331 Exploring the potential of EIC beams for Fixed Target Experiments
Chuyu Liu (Brookhaven National Laboratory)

MC1 - WEP1332 Design and Recent Developments of the Electron Storage Ring for the Electron-Ion Collider
Daniel Marx (Brookhaven National Laboratory)

MC1 - WEP1333 Nickl-Zinc Ferrite Fast Tuner of 24.6 MHz Accelerating Cavity for Transition Crossing
Silvia Verdu-Andres (Brookhaven National Laboratory)

MC1 - WEP1335 Design of radiation shielding for the EIC electron storage ring beampipe
Jay Best (Brookhaven National Laboratory)

MC1 - WEP1336 CEBAF Study of Particle Accelerators for Multi-Objective Optimizations
Moin Zahir (Old Dominion University)

MC1 - WEP1337 Detector Solenoid Integration into Storage Rings of Electron-Ion Collider
Vasiliy Morozov (Oak Ridge National Laboratory)

MC1 - WEP1338 Multimoded Distributed Coupling Linac (MM-DisCo-Linac):3pi/4 phase advance distributed coupling linac with dual modded manifolds
Sami Tantawi (Arizona State University)

MC1 - WEP1339 Orbit Correction and Error Mitigation Studies for 650 MeV Recirculating Electron Injector
Isurumali Neththikumara (Thomas Jefferson National Accelerator Facility)

MC1 - WEP1340 Orbit Correction Studies on The Electron Transport Line from RCS to ESR
Isurumali Neththikumara (Thomas Jefferson National Accelerator Facility)

MC1 - WEP1342 Damping Higher Order Modes for the Cool Copper Collider
Sophia Morton (SLAC National Accelerator Laboratory)

MC1 - WEP1344 Rapidly pulsed synchrotron lattice designs for a Fermilab sited muon collider
Kyle Capobianco-Hogan (Stony Brook University)

MC1 - WEP1345 Dispersion Suppression for Wedge-Based Final Cooling at a 10 TeV Muon Collider
Inci Karaaslan (University of Chicago)

MC1 - WEP1346 A Charge-Agnostic Design for 6D Muon Ionization Cooling
Caroline Riggall (University of Tennessee at Knoxville)

MC1 - WEP1347 FLUKA-Based Optimization of Muon Production Target Design for a Muon Collider Demonstrator
Ruaa Alharthy (University of Wisconsin-Madison)

MC1 - WEP1348 Optimization Studies of Muon Production and Transport Systems for Fermilab-based Muon Ionization Cooling Demonstrator.
Cheng-Hsu Nee (University of Wisconsin-Madison)

MC1 - WEP1349 Design and optimization of a horn focusing system for efficient pion capture in a Muon Collider Demonstrator
Prateek Rao (University of Wisconsin-Madison)

MC1 - WEP1351 Simulation of the Ions for the Coherent Electron Cooling Experiment
Gang Wang (Brookhaven National Laboratory)

MC1 - WEP1352 High-Average-Current, High-Brightness HVDC Electron Gun development for EIC Hadron Cooling
Erdong Wang (Brookhaven National Laboratory)

MC1 - WEP1353 Space Charge Effects on Spin Polarization in a High-Intensity Preinjector
Erdong Wang (Brookhaven National Laboratory)

MC1 - WEP1354 Preinjector Design Update for the EIC
Erdong Wang (Brookhaven National Laboratory)

MC1 - WEP1355 Multiple-slice simulations of coherent electron cooling performance with lattice optimization
Jun Ma (Brookhaven National Laboratory)

MC1 - WEP1356 Spinning in a vortex: getting wound up over highly asymmetric space-charge-dominated beams.
Patrick O'Shea (University of Maryland, College Park)

MC1 - WEP1357 Injection Requirements for Electron Swap-Out in the EIC-ESR
Yue Hao (Facility for Rare Isotope Beams)

MC1 - WEP1359 Tune Modulation and Its Impact on Beam-Beam Dynamics in the Electron-Ion Collider
Alexei Blednykh (Brookhaven National Laboratory)

MC1 - WEP1360 Dynamic Focusing Implementation for Suppressing Noise-Driven Emittance Transfer in the EIC
Yue Hao (Facility for Rare Isotope Beams)

MC1 - WEP1364 Evaluation of the RHIC Beam-Dump for EIC Operation Using a Detailed FLUKA Model and Benchmarked With an Accidental Quench Event
Eleftherios Skordis (Brookhaven National Laboratory)

MC1 - WEP1365 Evaluation of Synchrotron-Radiation Lifetime Dose to the EIC Electron Storage Ring Arc Magnets Using High-Fidelity FLUKA Simulations
Eleftherios Skordis (Brookhaven National Laboratory)

MC1 - WEP1368 Lattice for the Hadron Storage Ring of the Electron-Ion Collider
J. Berg (Brookhaven National Laboratory)

MC1 - WEP1371 RCS Polarization Correction Using Information Theoretic and Machine Learning Tools
Vincent Schoefer (Brookhaven National Laboratory)

MC1 - WEP1372 Symplectic Spin-Orbit Tracking Through the EIC's HSR with Helical-Dipole Siberian Snakes
Joseph Devlin (Cornell University (CLASSE))

MC1 - WEP1373 Solenoidal Fields from Permanent Magnets for high space charge vertical polarized beam
Erdong Wang (Brookhaven National Laboratory)

MC1 - WEP1374 Extraction and Injection in the Electron Injector for the Electron-Ion Collider
Kirsten Deitrick (Thomas Jefferson National Accelerator Facility)

MC1 - WEP1601 Nonlinear chromaticity correction for the interaction region of Super Tau-Charm Facility
Linhao Zhang (University of Science and Technology of China)

MC1 - WEP1602 Studies on nonlinear collimation method with anti-symmetric sextupole fields for high luminosity e+e- colliders
Ye Zou (University of Science and Technology of China)

MC1 - WEP1603 An updated physical design of the Super Tau Charm Facility collider rings
Ye Zou (University of Science and Technology of China)

MC1 - WEP1604 Reduction of Sudden Beam Loss in SuperKEKB
Hitomi Ikeda (High Energy Accelerator Research Organization)

MC1 - WEP1605 Bootstrapping Injection Conditioning Study for FCC-ee Collider
Takashi Mori (High Energy Accelerator Research Organization)

MC1 - WEP1606 Commissioning of BEPCII Upgrade
Haisheng Xu (Institute of High Energy Physics)

MC1 - WEP1607 Electric Field Computation for Electron Cloud Simulations: Integration of Fast Multipole Method and Boundary Element Method in pyECLOUD
Siyuan Feng (University of Chinese Academy of Sciences)

MC1 - WEP1608 Impact of Wiggler Field Profiles on Key Beam Parameters in the STCF
Hangzhou Li (University of Science and Technology of China)

MC1 - WEP1609 A novel hybrid damping wiggler design for the Super Tau-Charm Facility
Hao Zhou (University of Science and Technology of China)

MC1 - WEP1610 Design progress of STCF injector
Duan Gu (Shanghai Advanced Research Institute)

MC1 - WEP1611 Theory of the waveguide variable power divider and combiner
Zhe Duan (Institute of High Energy Physics)

MC1 - WEP1612 RF Energy Recovery Power Conversion for Particle Accelerators
Jindong Liu (Chinese Academy of Sciences)

MC1 - WEP1613 Development of STCF High-Efficiency Positron Capture Traveling Wave Accelerating Structures
ShaoHang Ma (University of Science and Technology of China)

MC1 - WEP1614 Development of STCF S-Band High-Gradient Traveling Wave Accelerating Structures
ShaoHang Ma (University of Science and Technology of China)

MC1 - WEP1615 Beam Adjustment based on the Gradient Boosting Decision Tree Analysis in the KEK Electron/Positron Injector LINAC
Taichi Sakai (High Energy Accelerator Research Organization)

MC1 - WEP1617 Reinstallation of heavy Cryomodule(HWR-A,B) for SCL3 beamline maintenance
Yangho Lee (Institute for Basic Science)

MC1 - WEP1618 The mechanical implementation and cold test result of the TM020 cavity coupler for the proposed stcf
Yelong Wei (University of Science and Technology of China)

MC1 - WEP1619 Conceptual Design for the Combined Damping and Accumulator Rings for Positrons at STCF
Mingxuan Chang (Institute of Modern Physics, Chinese Academy of Sciences)

MC1 - WEP1620 Muon production with 2-beam FFA collider for MuCF
Yoshihiro Ishi (Kyoto University)

MC1 - WEP1621 Polarized electron beam R&D for future colliders at IHEP
Zhe Duan (Institute of High Energy Physics)

MC1 - WEP1622 Beam-induced heating Analysis and Optimization of the Stripline Kicker for the STCF
Bing Zhu (Huazhong University of Science and Technology)

MC1 - WEP1623 Low emittance beam transport system of the position damping ring for the Super Tau Charm Facility
Xu Yang (University of Science and Technology of China)

MC1 - WEP1624 A Compatible Injection Scheme Design for the Super Tau-Charm Facility Collider Rings
Ze Yu (University of Science and Technology of China)

MC2 - WEP2001 RF recommissioning of the European XFEL linac after its first thermal cycle
Max Herrmann (Deutsches Elektronen-Synchrotron DESY)

MC4 - WEP4301 A Compact Partial Snake in the AGS Booster
Kiel Hock (Brookhaven National Laboratory)

MC4 - WEP4302 The AGS with two Cold-Snakes
Kiel Hock (Brookhaven National Laboratory)

MC4 - WEP4304 Fermilab Main Injector 1 MW Average Target Beam Power Record
Kyle Hazelwood (Fermi National Accelerator Laboratory)

MC4 - WEP4305 Second Generation Fermilab Main Injector 8 GeV Beamline Collimation Final Design, Installation and Commissioning
Kyle Hazelwood (Fermi National Accelerator Laboratory)

MC4 - WEP4306 Accelerator upgrades required for beam operation at Fermilab in the PIP-II/DUNE era
Srinivas Krishnagopal (Fermi National Accelerator Laboratory)

MC4 - WEP4307 Progress Update on the ATLAS Multi-User Upgrade at Argonne
Brahim Mustapha (Argonne National Laboratory)

MC4 - WEP4309 FRIB Accelerator Improvement Projects to Mitigate Beam Losses in Post-Stripper Linac
Xing Rao (Facility for Rare Isotope Beams)

MC4 - WEP4310 Design and Fabrication of HPECR Plasma Chambers
Xing Rao (Facility for Rare Isotope Beams)

MC4 - WEP4311 Progress of Variable Wedge for FRIB ARIS
Xing Rao (Facility for Rare Isotope Beams)

MC4 - WEP4312 Design of a 1 GeV superconducting proton linac based on Nb3Sn Technology
Delvon Alexander (Illinois Institute of Technology)

MC4 - WEP4313 Exploring Coupled-Cavity Linac upgrade with Distributed-Drive Linac at LANSCE
Michael Kaemingk (Los Alamos National Laboratory)

MC4 - WEP4314 Plans for cryogenic C-band prototype tests for LANL pRad booster linac
Evgenya Simakov (Los Alamos National Laboratory)

MC4 - WEP4315 2-D RF Phase Scan Signature Matching in the LANSCE CCL
Martin Kay (Los Alamos National Laboratory)

MC4 - WEP4316 Linac Tuning Enhanced by HPSim
Martin Kay (Los Alamos National Laboratory)

MC4 - WEP4317 Overview of the LAMP Conceptual Design
Kip Bishofberger (Los Alamos National Laboratory)

MC4 - WEP4318 LAT: a 9-MeV prototype "front-end" for the LANSCE Accelerator Modernization Project
Remington Thornton (Los Alamos National Laboratory)

MC4 - WEP4319 Performance Boundaries in the Novel Multi-Beam LANSCE Front End
Yuri Batygin (Los Alamos National Laboratory)

MC4 - WEP4320 High-Gradient Booster Linac for Multi-GeV Proton Radiography at LANSCE
Sergey Kurennoy (Los Alamos National Laboratory)

MC4 - WEP4321 Technology Maturation for the LANSCE Accelerator Modernization Project (LAMP)
Michael Holloway (Los Alamos National Laboratory)

MC4 - WEP4322 Perspective on Procurements of Major Components for the LANSCE Accelerator Modernization Project (LAMP)
Dimitre Dimitrov (Los Alamos National Laboratory)

MC4 - WEP4323 Modeling and Mitigation of Beam Loss due to Intra-Beam Stripping at SNS
Austin Hoover (Oak Ridge National Laboratory)

MC4 - WEP4324 Matching of Crystalline Beams into the BNL Booster
Stephen Brooks (Brookhaven National Laboratory)

MC4 - WEP4325 ERL-based Electron Cooler concept for EIC
Sergei Seletskiy (Brookhaven National Laboratory)

MC4 - WEP4326 New injection beamline commissioning and initial operation at triumf 500 MEV cyclotron
Yu. Bylinskii (TRIUMF)

MC4 - WEP4327 Design Considerations for a Proton Linac for a Compact Accelerator Based Neutron Source for Canada
Mina Abbaslou (TRIUMF)

MC4 - WEP4328 The LANSCE Accelerator Modernization Project (LAMP): Status and Recent Progress
Gregory Dale (Los Alamos National Laboratory)

MC4 - WEP4329 Requirements Evolution for the LANSCE Accelerator Modernization Project (LAMP)
John Lewellen (Los Alamos National Laboratory)

MC4 - WEP4330 Recent Developments in DTL Design for LAMP Project at LANL
Dmitry Gorelov (Los Alamos National Laboratory)

MC4 - WEP4331 Error and Sensitivity studies for LANSCE Accelerator Modernization Project
Salvador Sosa Guitron (Los Alamos National Laboratory)

MC4 - WEP4332 The LANSCE Accelerator Modernization Project front-end physics design and model
Salvador Sosa Guitron (Los Alamos National Laboratory)

MC4 - WEP4333 Accelerating through partial snake resonances with betatron coupling spin resonance compensation
Vincent Schoefer (Brookhaven National Laboratory)

MC4 - WEP4334 Investigations of betatron coupling and horizontal partial snake resonances at low energies in the AGS
Vincent Schoefer (Brookhaven National Laboratory)

MC4 - WEP4335 Feasibility study of Laser Ion Source to produce highly charged Nb ion beam
Antonino Cannavò (Brookhaven National Laboratory)

MC4 - WEP4336 Work Function Measurements for Ion Source Applications
April Smith (Los Alamos National Laboratory)

MC4 - WEP4337 Commissioning Status of the H- Ion Source for the LANSCE Accelerator Modernization Project
Madison Howard (Michigan State University)

MC4 - WEP4338 The design of the H- DC injector for the LAMP RFQ test stand
Anna Alexander (Los Alamos National Laboratory)

MC4 - WEP4339 The LAMP RFQTS: Status, Capabilities and Plans
Anna Alexander (Los Alamos National Laboratory)

MC4 - WEP4340 Charge neutralization study for LAMP RFQ test stand
Anna Alexander (Los Alamos National Laboratory)

MC4 - WEP4341 Design Update on the EIC HSR Stripline Injection Kicker
Medani Sangroula (Brookhaven National Laboratory)

MC4 - WEP4342 Crystal channeling for the beam loss mitigation in slow extraction at 8GeV
Vladimir Nagaslaev (Fermi National Accelerator Laboratory)

MC4 - WEP4343 Slow extraction beam commissioning for the Mu2e experiment at Fermilab
Vladimir Nagaslaev (Fermi National Accelerator Laboratory)

MC4 - WEP4345 LANSCE 2026 Operations Status and an Upcoming Modernization Project
Mark Gulley (Los Alamos National Laboratory)

MC4 - WEP4346 CST Modeling of Traveling-Wave Chopper Structures for LANSCE and LAMP
Sergey Kurennoy (Los Alamos National Laboratory)

MC4 - WEP4347 The HCHC-X family of high-current compact cyclotrons: design, simulation, tests
Daniel Winklehner (Massachusetts Institute of Technology)

MC4 - WEP4601 Optics correction techniques and their application in the CSNS/RCS
Yuwen An (Institute of High Energy Physics)

MC4 - WEP4602 A Bayesian Optimization Study of the Longitudinal Localized Excitation Slow Extraction for the XiPAF-Upgrading Synchrotron
Chuhao Li (Tsinghua University)

MC4 - WEP4603 Optics Design of a Compact Synchrotron for a Proton-Helium Therapy Facility
Yifan Lan (Shanghai Institute of Applied Physics)

MC4 - WEP4604 Compensation of second-order random resonances in the J-PARC RCS
Kunihiro Kojima (Japan Atomic Energy Agency)

MC4 - WEP4605 Beam acceleration with multi-harmonic excitation of the main magnets in a rapid-cycling synchrotron
Masahito Yoshii (High Energy Accelerator Research Organization)

MC4 - WEP4606 Coherent Oscillation Simulations of Beam Instability Generated During Debunching for J-PARC Slow Extraction
Ryotaro Muto (High Energy Accelerator Research Organization)

MC4 - WEP4607 Development of dynamic bump system with countermeasures to protect other equipment
Eiichi Yanaoka (High Energy Accelerator Research Organization)

MC4 - WEP4608 Scenario of Beam-based Alignment with New BPM System for Future Beam Commissioning of 1.3-MW Operation at the J-PARC Main Ring
Yoshihiro Saito (The Graduate University for Advanced Studies, SOKENDAI)

MC4 - WEP4609 Estimation of the Required Dipole Corrector Magnetic Field for PIP-II Injection Based on Beam Studies
Kiyomi Seiya (High Energy Accelerator Research Organization)

MC4 - WEP4610 Design and Characteristics Study of a Compact Ladder RFQ-IH-DTL Coupled Cavity Structure
Guoqing Kong (Xi'an Jiaotong University)

MC4 - WEP4611 Study of energy jitter and energy spread compression for the CSNS-II linac
Yanliang Han (Institute of High Energy Physics)

MC4 - WEP4614 Optimization of S-band backward traveling wave accelerating structure
Kai Peng (Tsinghua University)

MC4 - WEP4615 Design Study of a CH-DTL structure for Medical Isotope Production
Jiaiyi zhu (Shanghai Advanced Research Institute, Chinese Academy of Sciences)

MC4 - WEP4616 Design of a compact 8-MeV proton linac for medical applications
Yixing Lu (Shanghai Synchrotron Radiation Facility)

MC4 - WEP4617 Design study of a 425 MHz injector for particle therapy facility
Yusen Guo (Shanghai Synchrotron Radiation Facility)

MC4 - WEP4618 Global Momentum Compensation Scheme Enabled by Sequential Inference in Large-Scale Linacs
Yong Liu (High Energy Accelerator Research Organization)

MC4 - WEP4619 Processing of the prototype spoke cavity for the JAEA-ADS linac
Jun Tamura (Japan Atomic Energy Agency)

MC4 - WEP4620 Development of capacitive bellows tuner for low-beta single spoke cavity
Jun Tamura (Japan Atomic Energy Agency)

MC4 - WEP4621 A systematic analysis of cavity compensations in the JAEA-ADS linac utilizing the LightWin tool
Jun Tamura (Japan Atomic Energy Agency)

MC4 - WEP4622 Recent Activities at the J-PARC RFQ-TS
Yoichi Sato (Japan Proton Accelerator Research Complex)

MC4 - WEP4623 Longitudinal momentum halos - Risk of the fractional velocity particles in high-current hadron linacs
Kouki Hirosawa (National Institutes for Quantum Science and Technology)

MC4 - WEP4624 Operational experience of the raon rare isotope accelerator
Hyung Jin Kim (Institute for Basic Science)

MC4 - WEP4625 Beam tuning studies for the RAON linear accelerator
Dong-O Jeon (Institute for Basic Science)

MC4 - WEP4626 Transverse phase space tomography and comparison with Allison scanner data in the RAON heavy ion accelerator
Dong-O Jeon (Institute for Basic Science)

MC4 - WEP4628 Prototype of drift tube and multi-physics analysis for separated drift tube linac in KOMAC
Sungbin Park (Korea Multi-purpose Accelerator Complex)

MC4 - WEP4629 Preliminary Beam Dynamics Studies on the KOMAC 200 MeV Linac
Seunghyun Lee (Korea Multi-purpose Accelerator Complex)

MC4 - WEP4630 Progress of the KOMAC Proton Linac Upgrade to 200 MeV
Han-Sung Kim (Korea Atomic Energy Research Institute)

MC4 - WEP4631 Low-Power Test of Bridge Coupler Connected to Tank in Disk-and-Washer Structure for Muon Acceleration
Ayaka Kondo (Nagoya University)

MC4 - WEP4632 Isochronous and zero-chromatic FFA accelerator
Tomonori Uesugi (Kyoto University)

MC4 - WEP4633 Design of a dual extraction system for the ultra-compact multifunctional cyclotron CYCIAE-36A
wei fu (China Institute of Atomic Energy)

MC4 - WEP4634 Optimization of Isochronous Magnetic Fields and Beam-Dynamics Simulations for a High-Intensity Superconducting H3+ Cyclotron
Guoliang Dou (Institute of Modern Physics)

MC4 - WEP4635 Central Region for A High-Intensity Compact Superconducting Cyclotron SK1000
Xi Chen (Institute of Modern Physics, Chinese Academy of Sciences)

MC4 - WEP4636 Heavy Ion Beam Production on the Modernized DECRIS-3 ECR-source at the DC-60 Cyclotron
Igor Ivanov (Institute of Nuclear Physics)

MC4 - WEP4637 Integrated Performance and Upgrade Strategy of the 70 MeV Cyclotron-Driven ISOL Facility at RAON
Yeong Heum Yeon (Institute for Basic Science)

MC4 - WEP4638 Magnetic field interference and compensation of quadrupole magnets in CSNS RCS
Yuwen An (Institute of High Energy Physics)

MC4 - WEP4639 Commissioning at the tunes below half-integer for CSNS RCS
Jianliang Chen (Chinese Academy of Sciences)

MC4 - WEP4640 RF voltage fluctuation during multi-turn injection of high intensity beams in J-PARC RCS
Fumihiko Tamura (Japan Atomic Energy Agency)

MC4 - WEP4641 Short-bunch extraction in J-PARC RCS
Kyosuke Adachi (Japan Atomic Energy Agency)

MC4 - WEP4643 Recent status of J-PARC accelerators
Kazami Yamamoto (Japan Proton Accelerator Research Complex)

MC4 - WEP4644 Longitudinal beam dynamics simulation for gold ion acceleration in the J-PARC MR
Yasuyuki Sugiyama (High Energy Accelerator Research Organization)

MC4 - WEP4645 Beam Dynamics Simulations for the Design of a Heavy-Ion Storage Ring Equipped with a Beam-Recycling System
Ryo Ogawara (RIKEN Nishina Center)

MC4 - WEP4646 A Novel 2.45 GHz ECR Ion Source Using an RF Rotator
Ruichuang Qin (Shanghai Institute of Applied Physics)

MC4 - WEP4647 Ion Extraction Experimets for the LaPRIS Concept Using a Pulsed Gas Target
Shotaro Matsui (The University of Osaka)

MC4 - WEP4648 Empirical Orbit Correction for 3-GeV Proton Beam Transport in Fringe Field from Front Solenoid of Secondary Beamline
Yuji Yamaguchi (Japan Atomic Energy Agency)

MC4 - WEP4649 Simulation-Based Optimization of a Bent Silicon Crystal for Beam Loss Reduction in the J-PARC Main Ring Slow Extraction
Ryotaro Muto (High Energy Accelerator Research Organization)

MC4 - WEP4650 Development of resistors for impedance matching circuit of J-PARC MR injection kicker magnets
Soma Iwata (High Energy Accelerator Research Organization)

MC4 - WEP4651 Measurement of displacement cross section using 440-GeV/c protons at CERN HiRadMat
Shin-ichiro Meigo (Japan Proton Accelerator Research Complex)

MC4 - WEP4652 Operational status and lifetime-extension efforts of charge-exchange foils in the J-PARC 3 GeV Synchrotron
Takamitsu Nakanoya (Japan Atomic Energy Agency)

MC4 - WEP4653 Feasibility Study of In Situ Thermal Monitoring of Stripper Foils in the J-PARC RCS.
Masahiro Yoshimoto (Japan Atomic Energy Agency)

MC4 - WEP4654 Synchronization of longitudinal hollow electron beam and ion beam in a storage ring
Xiaodong Yang (Institute of Modern Physics, Chinese Academy of Sciences)

MC4 - WEP4655 Updated Design of Rectilinear 6D and Final Cooling Channels for a Muon Collider
Ruihu Zhu (Institute of Modern Physics, Chinese Academy of Sciences)

MC4 - WEP4656 Design of a High-Energy Electron Cooling Scheme and Beam Dynamics Study for HIAF-BRing
Zhiqiang Zhang (Institute of Modern Physics, Chinese Academy of Sciences)

MC4 - WEP4657 Ultra-Fast Slow Extraction from HIRFL-CSRm Using Autoresonance
Siji Li (Institute of Modern Physics, Chinese Academy of Sciences)

MC4 - WEP4658 operational experiences and upgrade of CSNS ion source
Shengjin LIU (China Spallation Neutron Source)

MC5 - WEP5001 In Trap Polarisation of Radioactive Ion Beams with the MORA Experiment
Pierre Delahaye (Grand Accélérateur National d'Ions Lourds)

MC5 - WEP5002 A study of polarized e+e- beam acceleration in the FCCee high energy booster
Jorg Wenninger (European Organization for Nuclear Research)

MC5 - WEP5003 Bench-marking the Xsuite code with beam polarization data of the Large Electron Positron collider
Jorg Wenninger (European Organization for Nuclear Research)

MC5 - WEP5004 Beamline Extension Considerations for AREAL-50 Accelerator
Milena Yazichyan (Center for the Advancement of Natural Discoveries using Light Emission)

MC5 - WEP5005 Cavity Failure Compensation Study in Spiral 2 LINAC: Simulation and Experimentation
Angie Orduz (Grand Accélérateur Nat. d'Ions Lourds)

MC5 - WEP5006 Ongoing studies of longitudinal matching for the PERLE accelerator
Janine Issa (Laboratoire de Physique des 2 Infinis Irène Joliot-Curie)

MC5 - WEP5007 Accumulator-to-Target Beam Transfer Line for ESSnuSB
Elian Bouquerel (Institut Pluridisciplinaire Hubert Curien)

MC5 - WEP5008 Loss identification in SOLEIL II storage ring injection: lattice correction sensitivity to booster and transfer-line errors
Vadim Gubaidulin (Synchrotron soleil)

MC5 - WEP5009 Update on SOLEIL II Booster
Viacheslav Kubytskyi (Synchrotron soleil)

MC5 - WEP5010 Optics Tuning Simulations for FCC-ee at W Energy Mode
Elaf Musa (Deutsches Elektronen-Synchrotron DESY)

MC5 - WEP5011 PyLOCO: A Python Framework for Linear Optics Correction in Storage Rings
Elaf Musa (Deutsches Elektronen-Synchrotron DESY)

MC5 - WEP5012 Design and Performance Analysis of the Upgraded Transfer Line for Two-Plane Injection at the SIS18.
Oleksiy Dolinskyy (GSI Helmholtz Centre for Heavy Ion Research)

MC5 - WEP5013 Feasibility of Antiproton Accumulation in the RESR with Barrier Bucket and Stochastic Cooling
Oleksiy Dolinskyy (GSI Helmholtz Centre for Heavy Ion Research)

MC5 - WEP5014 Conceptual Design and Performance Study of Two-Plane Multi-Turn Injec-tion for High-Intensity U^{28+} Beams in SIS18
Oleksiy Dolinskyy (GSI Helmholtz Centre for Heavy Ion Research)

MC5 - WEP5015 Beam based optimization of the ESR linear optics model
Areso Sherjan (GSI Helmholtz Centre for Heavy Ion Research)

MC5 - WEP5017 BESSY III Insertion Devices: Impact and Linear Optics Compensation
Sébastien Joly (Helmholtz-Zentrum Berlin für Materialien und Energie)

MC5 - WEP5018 Ultralow-Alpha Operation with three Families of Sextupoles at the KARA Ring
Patrick Schreiber (Karlsruhe Institute of Technology)

MC5 - WEP5019 Beam-Based Misalignment Studies for Physical Realignment Options at cSTART
Patrick Schreiber (Karlsruhe Institute of Technology)

MC5 - WEP5020 Modeling of Multiturn Injection at SIS-18 for a Train of UNILAC Microbunches
Annemarie Lauterbach (Goethe University Frankfurt)

MC5 - WEP5021 Effect of Interplane Correlation on the Two-Plane Multiturn Injection Efficiency
Annemarie Lauterbach (Goethe University Frankfurt)

MC5 - WEP5023 Improving Energy Spread of MESA Beam in ERL Operation
Esraa Khidr (Johannes Gutenberg University Mainz)

MC5 - WEP5024 An overview on octupoles placement in ultra-low emittance synchrotrons like Iranian Light Source Facility (ILSF)
Kowthar Noori (Iran University of Science and Technology)

MC5 - WEP5025 Evaluation and Mitigation of Damage Risks from Kicker Malfunctions in Elettra 2.0
Stefano Krecic (Elettra-Sincrotrone Trieste S.C.p.A.)

MC5 - WEP5026 Tracking-Based Linear Symplectic Parameterization of Insertion Devices
Ivan Morozov (Elettra-Sincrotrone Trieste S.C.p.A.)

MC5 - WEP5027 Applications of High-Dimensional Time-Delayed Embedding for Time Series Complexity Estimation
Ivan Morozov (Elettra-Sincrotrone Trieste S.C.p.A.)

MC5 - WEP5028 Estimating the Stability Domain of Symplectic Maps: A Robust Method via Bounding Set of Unstable Initial Conditions
Ivan Morozov (Elettra-Sincrotrone Trieste S.C.p.A.)

MC5 - WEP5029 Analysis of Accuracy of Frequency estimate for Harmonic Signals in the presence of Noise
Ivan Morozov (Elettra-Sincrotrone Trieste S.C.p.A.)

MC5 - WEP5030 Beam Based alignment studies for the High-Energy EuPRAXIA@SPARC_LAB X-Band Linac
Gilles Jacopo Silvi (Istituto Nazionale di Fisica Nucleare, Laboratori Nazionali di Frascati)

MC5 - WEP5031 Commissioning of the First APPLE-II Undulator at SESAME
Samira Kasaei (Synchrotron-Light for Experimental Science and Applications in the Middle East)

MC5 - WEP5032 Combined Effects of two Insertion Devices on SESAME Storage-Ring Optics
Samira Kasaei (Synchrotron-Light for Experimental Science and Applications in the Middle East)

MC5 - WEP5033 Laser-driven carbon ion beams: acceleration and transport design
Cristina Antonia Marin (Extreme Light Infrastructure - Nuclear Physics)

MC5 - WEP5034 Status of lattice studies for ALBA-II
Oscar Blanco-Garcia (ALBA Synchrotron (Spain))

MC5 - WEP5035 First Parallel Arc Quadrupole Beam-Based Alignment using K-Modulation at LHC
Christian Goffing (European Organization for Nuclear Research)

MC5 - WEP5036 Sextupole Beam-Based Alignment for FCC-ee
Christian Goffing (European Organization for Nuclear Research)

MC5 - WEP5037 Parallel Quadrupole Beam-Based Alignment for FCC-ee
Christian Goffing (European Organization for Nuclear Research)

MC5 - WEP5038 Modeling and Field Analysis of the LEIR Bending Magnets and Optics Integration
Halil Deveci (European Organization for Nuclear Research)

MC5 - WEP5039 Optics Characterization and Resonance Driving Term Studies for the SPS Crab Cavity Tests in 2025
Panagiotis Zisopoulos (European Organization for Nuclear Research)

MC5 - WEP5040 Effect of Broken Superperiodicity on Half Integer Resonance and Possible Compensation
Frank Zimmermann (European Organization for Nuclear Research)

MC5 - WEP5041 Understanding energy-induced optics distortions in the LHC
Joshua Gray (European Organization for Nuclear Research)

MC5 - WEP5042 Deep Lie map networks from single-pass forward differentiation
Joshua Gray (European Organization for Nuclear Research)

MC5 - WEP5043 Cleaning turn-by-turn data from the LHC with autoencoders
Joshua Gray (European Organization for Nuclear Research)

MC5 - WEP5044 Modelling Linear Coupling for FCC-ee in Xsuite
Vaibhavi Gawas (European Organization for Nuclear Research)

MC5 - WEP5045 Effect of FCC-ee Optics Errors in Collision Simulated by Xsuite
Vaibhavi Gawas (European Organization for Nuclear Research)

MC5 - WEP5046 FCC-ee Beamstrahlung and Pair Production Studies with GUINEA-PIG
Vaibhavi Gawas (European Organization for Nuclear Research)

MC5 - WEP5047 A High Performance Final Focus System for CLIC at 1.5 TeV
Lewis Kennedy (European Organization for Nuclear Research)

MC5 - WEP5048 A low Energy Polarizer Ring for FCC-ee
Christian Carli (European Organization for Nuclear Research)

MC5 - WEP5049 Machine protection considerations for beam transfer of the high-intensity proton beam to the BDF at CERN
Aleksandr Gorn (European Organization for Nuclear Research)

MC5 - WEP5050 Optimisation of the transition energy crossing optics in the CERN Proton Synchrotron
Foteini Asvesta (European Organization for Nuclear Research)

MC5 - WEP5051 Beta Function Measurements using Quadrupole Variation in SLS 2.0
Jesus Avila Pulido (Paul Scherrer Institute)

MC5 - WEP5052 Control of Nonlinear Tune Shifts in SLS 2.0
Jesus Avila Pulido (Paul Scherrer Institute)

MC5 - WEP5053 Toward the experimental validation of the beam transverse stabilization: FACET-II and FCCee synergy
Simona Bettoni (Paul Scherrer Institute)

MC5 - WEP5054 Beam dynamics optimization of the high energy linac of the FCCee injector
Simona Bettoni (Paul Scherrer Institute)

MC5 - WEP5055 Design status of the extraction lattice for the ELBEX project
Marin Deniaud (Cockcroft Institute)

MC5 - WEP5056 Analysis and Compensation of Crosstalk Effects for the Diamond-II Bending Magnets
Ian Martin (Diamond Light Source)

MC5 - WEP5057 Improving Injection at Diamond using Dimensionality Reduction Techniques and Bayesian Optimisation
Shaun Preston (University of Oxford)

MC5 - WEP5058 Benchmarking the linear lattice of the ISIS RCS as a foundation for future model-based optimisation
Haroon Rafique (Science and Technology Facilities Council)

MC5 - WEP5059 Generalised Slice-Based Space-Charge Compensation Beyond Static Linear Optics
Oliver Betteridge (Cockcroft Institute)

MC5 - WEP5060 Validation of Gaussian Self-Field Models for Space-Charge Dominated Injectors
Oliver Betteridge (Cockcroft Institute)

MC5 - WEP5061 Superposition of Multipolar Transverse Electric Modes in a Unified RF Structure.
Oliver Betteridge (Cockcroft Institute)

MC5 - WEP5062 Fundamentals of the longitudinal dynamics for multi-isotopic beams
Matthias Kausel (EBG MedAustron GmbH)

MC5 - WEP5063 Update on slow extraction studies at MedAustron
Katrin Holzfeind (TU Wien)

MC5 - WEP5064 Halo cleaning and collimator optimization at PERLE
Arnaud CIEPLAK (Laboratoire de Physique des 2 Infinis Irène Joliot-Curie)

MC5 - WEP5065 Modeling of compact magnets given by 3D field map data in the PETRA IV lattice
Ilya Agapov (Deutsches Elektronen-Synchrotron DESY)

MC5 - WEP5066 LHC dynamic aperture estimation for different action definitions
Sasha Horney (European Organization for Nuclear Research)

MC5 - WEP5067 Beam trapping in stable resonant islands of the longitudinal phase space by RF phase modulation in electron rings
Massimo Giovannozzi (European Organization for Nuclear Research)

MC5 - WEP5068 Current classification strategies based on the transfer function and field quality of the new superconducting magnets in the HL-LHC
Massimo Giovannozzi (European Organization for Nuclear Research)

MC5 - WEP5069 HL-LHC magnets field quality: Current situation, strategies and mitigation measures
Massimo Giovannozzi (European Organization for Nuclear Research)

MC5 - WEP5070 Recent developments of BLonD for new large scale accelerator facilities
Simon Lauber (European Organization for Nuclear Research)

MC5 - WEP5071 Measurement and correction of local chromaticity in the LHC
Mattia Stefanelli (European Organization for Nuclear Research)

MC5 - WEP5072 Extrapolated optics measurement from BPM to instrumentation in LHC commissioning
Mattia Stefanelli (European Organization for Nuclear Research)

MC5 - WEP5073 Measurement of chromatic resonance driving terms in the LHC
Mattia Stefanelli (European Organization for Nuclear Research)

MC5 - WEP5074 Advanced Linear and Nonlinear Optics Studies Using MAD-NG's Parametric Differential Algebra.
Laurent Deniau (European Organization for Nuclear Research)

MC5 - WEP5075 Optimization with the PETRA IV lattice sextupoles for the mitigation of magnetic field imperfections
Konstantinos Paraschou (European Organization for Nuclear Research)

MC5 - WEP5076 Tests of commissioning simulation tools in operation of storage ring light sources
Konstantinos Paraschou (European Organization for Nuclear Research)

MC5 - WEP5077 Impact of a quasi-resonant AC dipole excitation on transverse beam splitting
Oleksandr Naumenko (European Organization for Nuclear Research)

MC5 - WEP5078 Long term tracking of high intensity bunched beams with collisionality
Giuliano Franchetti (GSI Helmholtz Centre for Heavy Ion Research)

MC5 - WEP5079 Mitigating the periodic resonance crossing in high-intensity bunches by multi-RF
Giuliano Franchetti (GSI Helmholtz Centre for Heavy Ion Research)

MC5 - WEP5080 Computing coherent synchrotron radiation from Liénard-Wiechert potentials
Axel Bernhard (Karlsruhe Institute of Technology)

MC5 - WEP5081 Modelling of the hb2tf injector in comsol with benchmarking using astra and rf-track
Illya Drebot (Istituto Nazionale di Fisica Nucleare)

MC5 - WEP5082 Nonlinear Plasma Wakefield Perturbation Using Square Gaussian Beam in Uniform Plasma Distribution
Gangtak Nanpon (Joseph Sarwuan Tarka University Makurdi)

MC5 - WEP5083 Assessment of fabrication and assembly tolerances in an IH-DTL cavity through electromagnetic and beam dynamics Simulations
Pedro Calvo (Centro de Investigaciones Energéticas, Medioambientales y Tecnològicas)

MC5 - WEP5084 A comprehensive analytical model for RFQ beam dynamics
Emanuele Laface (European Spallation Source)

MC5 - WEP5085 Modeling and Measurements of the Impact of Dipole Fringe Fields in the Extra Low Energy Antiproton Ring
Silke Van der Schueren (European Organization for Nuclear Research)

MC5 - WEP5086 Analytical solutions for particle tracking in planar crystal channelling
Silke Van der Schueren (European Organization for Nuclear Research)

MC5 - WEP5087 Linear and Nonlinear Effects of Fringe Fields on the Single-Particle Dynamics in the Helium Light Ion Compact Synchrotron
Silke Van der Schueren (European Organization for Nuclear Research)

MC5 - WEP5088 Mode Mixing in UK XFEL's Elliptical Cavities
Anthony Gilfellon (Cockcroft Institute)

MC5 - WEP5089 HOM study of the PERLE's booster cavity
Raphael Roux (Université Paris-Saclay, CNRS/IN2P3, IJCLab)

MC5 - WEP5090 Status of the PERLE's injector
Raphael Roux (Université Paris-Saclay, CNRS/IN2P3, IJCLab)

MC5 - WEP5091 Improved resistive wall effective radius taking into account Yokoya factors
Alexis Gamelin (Synchrotron soleil)

MC5 - WEP5092 Optimal double rf system design for normal conducting passive harmonic cavity in SOLEIL II
Alexis Gamelin (Synchrotron soleil)

MC5 - WEP5093 Simulation study for the new collimators of PETRA IV
Pascal Reinhart (Technical University of Darmstadt)

MC5 - WEP5094 Beam Misalignment and Current Loss in the Karaj-C30 Cyclotron: Diagnostics and IBSimu Analysis
Keyvan Tabaei (University of Isfahan)

MC5 - WEP5095 Updating the impedance budget for Elettra 2.0
Sara Dastan (Elettra-Sincrotrone Trieste S.C.p.A.)

MC5 - WEP5096 Multi-Bunch Longitudinal Beam Dynamics in the Elettra 2.0 Storage Ring with a Double-RF System
Sara Dastan (Elettra-Sincrotrone Trieste S.C.p.A.)

MC5 - WEP5097 Status and Advances in the LHC longitudinal beam coupling impedance model
Michela Neroni (European Organization for Nuclear Research)

MC5 - WEP5098 Recent progress in impedance mitigation for HL-LHC equipment
Michela Neroni (European Organization for Nuclear Research)

MC5 - WEP5099 Impact of Landau damping from octupoles on instability growth rates measured in the LHC
Nicolas Mounet (European Organization for Nuclear Research)

MC5 - WEP5100 Modelling Transition Energy Crossing in the CERN Proton Synchrotron via Tracking Simulations with Xsuite
Nicolas Mounet (European Organization for Nuclear Research)

MC5 - WEP5101 Advanced beam coupling impedance modeling and applications in the LHC
Carlo Zannini (European Organization for Nuclear Research)

MC5 - WEP5102 Challenges in beam coupling impedances for FCC-ee
Carlo Zannini (European Organization for Nuclear Research)

MC5 - WEP5103 Single- and Multi-bunch Instability Studies for Future ERL-based Applications
Tatiana Pieloni (Ecole Polytechnique Fédérale de Lausanne)

MC5 - WEP5104 Collective Effects and Impedance Update for the Diamond-II Storage Ring
Richard Fielder (Diamond Light Source)

MC5 - WEP5105 Microwave Instability Modelling for SOLEIL II
Vadim Gubaidulin (Synchrotron soleil)

MC5 - WEP5106 Beam-based Instability and Bunch-by-Bunch Feedback Characterization at SOLEIL
Vadim Gubaidulin (Synchrotron soleil)

MC5 - WEP5107 Coupled-bunch instabilities with a defocusing higher-harmonic RF system
Ruben Heine (Technische Universität Berlin)

MC5 - WEP5108 Collective effects studies for MAX4U
Murilo Barbosa Alves (MAX IV Laboratory)

MC5 - WEP5109 Longitudinal beam stability in HL-LHC
Ivan Karpov (European Organization for Nuclear Research)

MC5 - WEP5110 Studies of coupled-bunch instability in the HL-LHC
Ivan Karpov (European Organization for Nuclear Research)

MC5 - WEP5111 Longitudinal microwave instability study at transition crossing in the CERN PS
Alexandre Lasheen (European Organization for Nuclear Research)

MC5 - WEP5112 Beam-loading compensation at transition crossing for mixed intensity bunches
Alexandre Lasheen (European Organization for Nuclear Research)

MC5 - WEP5113 Coupled-bunch instability studies in the CERN PS
Alexandre Lasheen (European Organization for Nuclear Research)

MC5 - WEP5114 Characterization of longitudinal electron beam quality at the soft X-ray beamline of SwissFEL
Roberta Provvedi (Paul Scherrer Institute)

MC5 - WEP5115 Coherent Transverse Instabilities on the ISIS Proton Synchrotron at Injection Energy
David Posthuma de Boer (ISIS Neutron and Muon Source)

MC5 - WEP5116 Improved Space-Charge Simulation Studies for the Muon Collider Proton Compressor
Natalia Milas (European Spallation Source)

MC5 - WEP5117 Impact of Landau Octupoles on the Transverse Beam Halo Distribution in the LHC
Chiara Maccani (European Organization for Nuclear Research)

MC5 - WEP5118 Effect on 7 TeV proton beams from the residual multipolar fields in the HL-LHC Hollow Electron Lens
Chiara Maccani (European Organization for Nuclear Research)

MC5 - WEP5119 Real-Time Reconstruction of Longitudinal Phase-Space Distribution in Hadron Beamlines and Synchrotrons
Sergei Sherstiuk (Technical University of Darmstadt)

MC5 - WEP5120 Beam Dynamics Study for a Modified Low-Emittance RF Photogun
Armen Grigoryan (Center for the Advancement of Natural Discoveries using Light Emission)

MC5 - WEP5121 Generation of femtosecond electron bunches via CSR-induced self-compression
Carlos Buitrago (Istituto Nazionale di Fisica Nucleare)

MC5 - WEP5122 Phase Space Tomography Constrained by the Vlasov-Fokker-Planck Equation Using EOSD Diagnostics at KARA
Felipe Donoso (Karlsruhe Institute of Technology)

MC5 - WEP5123 Numerical computation of the beam coupling impedance of dielectric THz-structures
Erion Gjonaj (Technical University of Darmstadt)

MC5 - WEP5124 Modeling of Radiation Wakefields using a Scattered Field Formulation
Jonas Christ (Technical University of Darmstadt)

MC5 - WEP5125 Developing a Physics-Informed Gaussian Process Model to Construct an Uncertainty-Quantified Machine Model Using Bayesian Optimization
Victoria Isensee (Technical University of Darmstadt)

MC5 - WEP5126 The GIOTTO Project: Next-Generation Optimization for Accelerator Applications
Alberto Bacci (Istituto Nazionale di Fisica Nucleare)

MC5 - WEP5127 High-Level Applications for LINAC Commissioning at ELI-NP
Guangling Chen (Horia Hulubei National Institute for R and D in Physics and Nuclear Engineering)

MC5 - WEP5128 Ion transport optimisation at Low Energy Branch
Ziga Brencic (Jožef Stefan Institute)

MC5 - WEP5129 Benchmarking of the PENELOPE/PENH and PHITS codes for calculation of beam quality correction factors kQ in therapeutic proton beams
Yuri Kubyshin (Universitat Politècnica de Catalunya)

MC5 - WEP5130 Benchmarking the PENH Monte Carlo Code Against PHITS: Assessment of Proton Depth-Dose and Lateral Scattering.
Yuri Kubyshin (Universitat Politècnica de Catalunya)

MC5 - WEP5132 Fast and accurate accelerator modelling with FLUKA CAD geometry workflow
Helene Guerin (European Organization for Nuclear Research)

MC5 - WEP5133 x3d: An Interactive 3D Visualisation Tool for Accelerator Lattice Models
James Bradford (European Organization for Nuclear Research)

MC5 - WEP5134 A spacial Boris-like scheme for particle tracking in magnetostatic field: impleamentation and properties
Giovanni Iadarola (European Organization for Nuclear Research)

MC5 - WEP5135 Python FLUKA BeamLine (pyflubl) : Upgrades and developments
Stewart Boogert (Cockcroft Institute)

MC5 - WEP5137 Xboinc: A framework for volunteer-based beam dynamics simulations using Xsuite
Carlo Emilio Montanari (University of Manchester)

MC5 - WEP5138 Progress and Developments of Beam Delivery Simulation (BDSIM)
Siobhan Alden (John Adams Institute)

MC5 - WEP5139 BDSIM: Beam Delivery Simulation
William Shields (Royal Holloway University of London)

MC5 - WEP5140 3D-PIC simulation of the beam-plasma interaction inside of Gabor Lenses
Martin Droba (Goethe University Frankfurt)

MC5 - WEP5141 Parametrization of electron cloud buildup models
Tatiana Pieloni (Ecole Polytechnique Fédérale de Lausanne)

MC5 - WEP5142 Modelling of Fast Beam-Ion Instability in future accelerators
Giovanni Iadarola (European Organization for Nuclear Research)

MC5 - WEP5143 Electron cloud stability studies for the FCC-ee
Tatiana Pieloni (Ecole Polytechnique Fédérale de Lausanne)

MC5 - WEP5144 Ion Trapping Studies and Mitigation Strategies for the EIC ERL-Based Strong Hadron Cooler
Rancheng Bi (Lancaster University)

MC6 - WEP6001 Scattering Footprint on Beam Phase Space Introduced by the PEPITEs Monitor on CNAO Beams
Alessio Mereghetti (National Center for Oncological Hadrontherapy)

MC6 - WEP6002 Transfer Learning for Generalizing a Hybrid Autoencoder-Isolation Forest Model for Time Series Anomaly Detection in ARRONAX Cyclotron Operational Data
Fatima Basbous (Nantes Université)

MC6 - WEP6003 Anomaly Detection and Denoising of Non-Gaussian Beams using 2D Image Reconstruction Techniques based on Deep Learning
Francis Osswald (Institut Pluridisciplinaire Hubert Curien)

MC6 - WEP6004 Machine Learning-Driven Optimization of Positive Ion Beams on the LUTEX Irradiation Line
Antoine Breteaux (Ecole Nationale Supérieure d'Ingénieurs de Caen)

MC6 - WEP6005 Online beamline tuning using Bayesian optimization at the HIT medical synchrotron
Marcel Hun (Heidelberg Ion Beam Therapy Centre)

MC6 - WEP6006 Gradient-based laser control for end-to-end photoinjector emittance optimization at EuXFEL
Denis Ilia (Deutsches Elektronen-Synchrotron DESY)

MC6 - WEP6007 Accelerator optimization for large parameter numbers embedded in the native FAIR control system environment
Frank Herfurth (GSI Helmholtz Centre for Heavy Ion Research)

MC6 - WEP6008 Integration of Retrieval-Augmented Generation for Knowledge Access in the ELBE Accelerator Control System
Najmeh Mirian (Helmholtz-Zentrum Dresden-Rossendorf)

MC6 - WEP6009 Exploring Convolutional Neural Networks training strategies for Pile up correction in single particle counting
Tobias Habermann (Fulda University of Applied Sciences)

MC6 - WEP6011 Optimization of Multi Turn Injection into the HIT Medical Synchrotron
Corinna Steffen (Heidelberg Ion Beam Therapy Centre)

MC6 - WEP6012 Photoinjector Emittance Optimization Study using Latent Laser Pulse Representations
Alexander Klemps (Hamburg University of Technology)

MC6 - WEP6013 AI-driven knowledge and logs integration system at ELI Beamlines
Wojciech Soroka (S2Innovation Sp z o. o. [Ltd.])

MC6 - WEP6014 FEL Power Profile Predictions with Image-Based Machine Learning at FLASH
Johan Lundquist (MAX IV Laboratory)

MC6 - WEP6015 Bayesian Optimization of Longitudinal Phase Space in the MAX IV Linac
Johan Lundquist (MAX IV Laboratory)

MC6 - WEP6016 Data-Driven Optimization of Open Loop Control Functions at CERN's SPS
Adrian Menor de Onate (European Organization for Nuclear Research)

MC6 - WEP6017 Towards Fully Automated Transfer Line Commissioning at the CERN Super Proton Synchrotron
Adrian Menor de Onate (European Organization for Nuclear Research)

MC6 - WEP6018 High-Dimensional Bayesian Optimization for Sparse Objectives: an Application for Automated Beam Commissioning in the Low Energy Ion Ring at CERN
Borja Rodriguez Mateos (European Organization for Nuclear Research)

MC6 - WEP6019 Eliminating mains noise effects in accelerators with Machine Learning
Borja Rodriguez Mateos (European Organization for Nuclear Research)

MC6 - WEP6020 Constrained Bayesian Functional Optimization: Application to Cycling Machines
Borja Rodriguez Mateos (European Organization for Nuclear Research)

MC6 - WEP6021 Online Reinforcement Learning for Stripper Foil Aging Compensation at the CERN Low Energy Ion Ring
Borja Rodriguez Mateos (European Organization for Nuclear Research)

MC6 - WEP6022 Anomaly Detection and Measurement-Space Statistical Inference with ML-Assisted Beam Monitoring Based on Autoencoder Architectures
Jaroslaw Szumega (European Organization for Nuclear Research)

MC6 - WEP6023 Virtual beam position monitor for particle driven plasma wakefield accelerators
Joseph Wolfenden (Cockcroft Institute)

MC6 - WEP6024 Data Efficient Machine Learning Reconstruction for Remote Transverse Beam Imaging with a Multimode Fiber
Qiyuan Xu (Cockcroft Institute)

MC6 - WEP6025 OptOps: An open-source AI-focused software suite for operation of scientific facilities.
Corey Lehmann (University of Oxford)

MC6 - WEP6026 Modelling and anomaly detection for Diamond-II Beam Loss Monitors using machine learning techniques
Corey Lehmann (University of Oxford)

MC6 - WEP6027 Improving Peak Prediction in MEBT Surrogate Models Using Fourier Feature Mapping
jaehoon cha (Science and Technology Facilities Council)

MC6 - WEP6028 The application of glass plates irradiation and a beam image digital processing for the low energy electron beam detection
Armen Grigoryan (Center for the Advancement of Natural Discoveries using Light Emission)

MC6 - WEP6029 Beam Charge Diagnostics in Laser-Plasma Accelerators with Diamond Detectors
Divya Divya (TU Wien)

MC6 - WEP6030 Rate capabilities of radiation monitors based on diamond detectors
Julian Melbinger (TU Wien)

MC6 - WEP6031 Experimental Evaluation of a Digitizer Designed for ACCT Beam Current Transformers
Dorian Coves (Bergoz Instrumentation (France))

MC6 - WEP6032 Study of ion sources using optical emission spectroscopy for beam monitoring
Alexis Ribet (Grand Accélérateur National d'Ions Lourds)

MC6 - WEP6033 Simulation studies for FCC-ee Compton polarimeters
JUBA TAMAZIRT (Centre National de la Recherche Scientifique)

MC6 - WEP6034 A deflecting cavity for bunch length measurement
Raphael Roux (Université Paris-Saclay, CNRS/IN2P3, IJCLab)

MC6 - WEP6035 Overview of Beam diagnostics for PERLE
Mohammed Ben Abdillah (Université Paris-Saclay, CNRS/IN2P3, IJCLab)

MC6 - WEP6036 Beam positions monitors for PERLE
Mohammed Ben Abdillah (Université Paris-Saclay, CNRS/IN2P3, IJCLab)

MC6 - WEP6037 Faraday cup for the commissioning of PERLE injector
Denis Reynet (Laboratoire de Physique des 2 Infinis Irène Joliot-Curie)

MC6 - WEP6038 SDR based multiband processing for pickup signals in synchrotrons
Tamara Hinderman (GSI Helmholtz Centre for Heavy Ion Research)

MC6 - WEP6039 Efficient Parameter Reconstruction from Gaussian Pulses using a GPU
Simon Braner (Karlsruhe Institute of Technology)

MC6 - WEP6040 Determining the influence of transversal beam excitation on beam size and dynamics at KARA
Simon Braner (Karlsruhe Institute of Technology)

MC6 - WEP6041 Current Profile Reconstruction by Passive Streaking of Low Energy Electron Bunches in Dielectric Loaded Waveguides
Max Joseph Kellermeier (Deutsches Elektronen-Synchrotron DESY)

MC6 - WEP6044 Systematic analysis and mitigation of disturbances in beam current measurements using dual SQUID readout
Svenja Kolbe (Ernst Abbe University of Applied Sciences Jena)

MC6 - WEP6045 Longitudinal Beam Dynamics Investigations at the GSI UNILAC for non-relativistic ion beams
Nimue Schmidt (GSI Helmholtz Centre for Heavy Ion Research)

MC6 - WEP6046 Upgrade of the Beam Loss Monitoring System for the Unilac Heavy Ion Linear Accelerator at GSI
MichaÅ, Dziewiecki (GSI Helmholtz Centre for Heavy Ion Research)

MC6 - WEP6047 Novel CNN based arrival time determination in piled-up particle counter signals
Rahul Singh (GSI Helmholtz Centre for Heavy Ion Research)

MC6 - WEP6048 Continuous Operation of Cryogenic Current Comparators at FAIR
Thomas Sieber (GSI Helmholtz Centre for Heavy Ion Research)

MC6 - WEP6049 First Measurements of the Transient Electrical Near-Field of Electron Bunches in the FLUTE In-Air Section
Stefan Funkner (Karlsruhe Institute of Technology)

MC6 - WEP6050 Measurements of CSR radiation at KARA using novel thin-film lithium niobate electro-optical sensors
Stefan Funkner (Karlsruhe Institute of Technology)

MC6 - WEP6051 Commissioning of an electro-optical longitudinal bunch profile monitor at FLUTE
Stefan Funkner (Karlsruhe Institute of Technology)

MC6 - WEP6052 Using a Timepix3 Pixel Detector for a Compton Backscattering Polarimeter
Dennis Proft (University of Bonn)

MC6 - WEP6053 Enhancing Beam Time Availability by a Factor of Two: Simultaneous Operation of Hadron Physics and Detector Test Beam Lines at ELSA
Dennis Proft (University of Bonn)

MC6 - WEP6054 Development of the 2 MeV Proton Beam Diagnostics Section in Preparation for Neutron Production at FRANZ
Leonie Bauer (Goethe University Frankfurt)

MC6 - WEP6055 CMOS Camera-Based Observation and Characterization of Multipacting during Cavity Conditioning
Leonie Bauer (Goethe University Frankfurt)

MC6 - WEP6056 Novel Time-of-flight Measurement on a Short Base
Zoltan Kormany (HUN-REN Institute for Nuclear Research)

MC6 - WEP6057 Vector Field Mapping in RF Cavities Using Anisotropic Beads for Enhanced Beam-Dynamics Characterization
Seyed Amirhossein Mousavi (Institute for Research in Fundamental Sciences)

MC6 - WEP6058 Enhanced techniques for transverse beam profile measurement by two-slit interference at ILSF
Zahra Rezaei (Iranian Light Source Facility)

MC6 - WEP6059 Design of Button Beam Position Monitor for the ILSF Storage Ring
Samira Mohammadi Alamouti (Iranian Light Source Facility)

MC6 - WEP6060 Study of Gas Bremsstrahlung for 3 Gev Electron Storage Ring Using FLUKA Monte Carlo Code
Samira Mohammadi Alamouti (Iranian Light Source Facility)

MC6 - WEP6061 Commissioning of the FERMI Electro-Optical System for Time-resolved beam profile measurements
Giovanni Campri (Elettra-Sincrotrone Trieste S.C.p.A.)

MC6 - WEP6062 Electromagnetic test-bench evaluation of pickup prototypes for the Elettra 2.0 button-type beam position monitors
Stefano Cleva (Elettra-Sincrotrone Trieste S.C.p.A.)

MC6 - WEP6064 Novel Silicon Carbide Sensor for X-ray White-Beam Monitoring: Modeling, Validation and Synchrotron Benchmarking
Massimo Camarda (STLab srl)

MC6 - WEP6065 Real-Time Feedback System for Synchrotron Beam Stabilization using in-line Silicon Carbide X-Ray Beam Position Monitors
Massimo Camarda (STLab s.r.l. (Italy))

MC6 - WEP6066 Challenges in electron beam diagnostics with turbo-ict at petawatt-class laser facilities
Vanessa Ling Jen Phung (Extreme Light Infrastructure - Nuclear Physics)

MC6 - WEP6067 Design and Implementation of an X-ray Pinhole Imaging System for Beam Profile Measurement in the HALF
Xiaochao Ma (Budker Institute of Nuclear Physics)

MC6 - WEP6068 Capabilities and Limitations of Non-Redundant Aperture Interferometry for Beam Size Measurements
Laura Torino (ALBA Synchrotron (Spain))

MC6 - WEP6069 Bunch-by-Bunch Charge, Position, and Phase Diagnostics Using an Oscilloscope-Based Analysis for ALBA
Javier Bañuelos Sanchez (ALBA Synchrotron (Spain))

MC6 - WEP6070 Beam size measurements comparison between Heterodyne Near Field Speckles and Pinhole Techniques at ALBA
Ubaldo Iriso (ALBA Synchrotron (Spain))

MC6 - WEP6071 Multi-harmonic buncher experiment overview for the isolde superconducting recoil separator project
Juan Munoz (ESS Bilbao)

MC6 - WEP6072 A wideband fast faraday cup for bunch length measurement of the mhb of ISOLDE-ISRS
Seadat Varnasseri (ESS Bilbao)

MC6 - WEP6073 Performance of a Re-Entrant Cavity BPM and DAQ System at ATF: Theoretical Prediction and Measurement Comparison
Laura Pedraza (Instituto de Fisica Corpuscular)

MC6 - WEP6074 IFMIF-DONES Beam on Target Diagnostics based on Optical Methods: OTR and Fluorescence
Jorge Herranz (IFMIF-DONES España)

MC6 - WEP6075 The Quadrupolar Component of the ESS Linac Proton Beam
Benjamin Bolling (European Spallation Source)

MC6 - WEP6076 Off-Resonance Landau Cavity Field Probe Calibration
David Olsson (MAX IV Laboratory)

MC6 - WEP6077 Continuous and Automated Monitoring of the Health and Performance of the LHC Beam Position Monitor System
Javier Martinez Samblas (European Organization for Nuclear Research)

MC6 - WEP6078 Beam instrumentation for AWAKE from Run 2b to Run 2c
Collette Pakuza (European Organization for Nuclear Research)

MC6 - WEP6079 A new analogue signal chain for the BPM system of CERN PS
Michele Bozzolan (European Organization for Nuclear Research)

MC6 - WEP6080 New Findings on BPM Calibration in the LHC
Jacqueline Keintzel (European Organization for Nuclear Research)

MC6 - WEP6081 Advancing beam quality control in the CERN Proton Synchrotron
Marcel Coly (European Organization for Nuclear Research)

MC6 - WEP6082 A Novel Approach for Transverse Instability Detection in the CERN Proton Synchrotron
Amaury Beeckman (European Organization for Nuclear Research)

MC6 - WEP6083 The FPGA and Software Design of the SLS 2.0 BPM System
Jonas Purtschert (Paul Scherrer Institute)

MC6 - WEP6084 A Visible-Light Monitor for Transverse Beam Profile Diagnostics in the SLS Booster
Maria Paula Rey Barrera (Paul Scherrer Institute)

MC6 - WEP6085 A Reconfigurable CPCI-S.0 Multi-Diagnostic DAQ System for SLS 2.0
Benoit Stef (Paul Scherrer Institute)

MC6 - WEP6086 Real-Time Digital Decay-Rate Interlock for Storage-Ring Machine Protection at SLS 2.0
Benoit Stef (Paul Scherrer Institute)

MC6 - WEP6087 Studying Coherent Transition Radiation Spatial Image Features for Bunch Length Diagnostics
Ana Guisao-Betancur (University of Liverpool)

MC6 - WEP6088 Development of gas curtain monitor for hollow electron beam test stand
Hao Zhang (Cockcroft Institute)

MC6 - WEP6089 Feasibility of Non-invasive OSR Diagnostics in the AWAKE run-2C Injection Region
Debdeep Ghosal (University of Liverpool)

MC6 - WEP6090 Studies of unusual pickup geometries for the arc beam position monitors of the FCC-ee
Emily Howling (John Adams Institute)

MC6 - WEP6091 Commissioning the Passive Structure Wakefield Dechirper on CLARA
Toby Overton (Science and Technology Facilities Council)

MC6 - WEP6092 Transverse Phase Space Tomography at CLARA Using Generative Machine Learning
Mark Johnson (Science and Technology Facilities Council)

MC6 - WEP6093 Space Charge Compensation Time Measurement for a Pulsed, High-Current H- Ion Beam
Erin Flannigan (Science and Technology Facilities Council)

MC6 - WEP6094 Performance and Commissioning of Charge Diagnostics on CLARA
Storm Mathisen (Science and Technology Facilities Council)

MC6 - WEP6095 Python Based Control and Diagnostic Systems for AREAL Linear Accelerator
Milena Yazichyan (Center for the Advancement of Natural Discoveries using Light Emission)

MC6 - WEP6096 Causal GP-MPC: Where Structure, Safety, and Online Learning Meet for Robust Accelerator Control
Simon Hirlaender (University of Salzburg)

MC6 - WEP6097 Reinforcement Learning Beyond Greedy Optimisation for Delayed-Consequence Accelerator Control
Simon Hirlaender (University of Salzburg)

MC6 - WEP6098 Koopman-Stabilised World Models for Offline Reinforcement Learning in Accelerator Control
Simon Hirlaender (University of Salzburg)

MC6 - WEP6099 Status of accelerator automation in the community: classification, survey results, and the role of ai and machine learning
Stephan Reimann (GSI Helmholtz Centre for Heavy Ion Research)

MC6 - WEP6100 Commissioning of the FAIR Control Centre
Vsevolod Kamerdzhiev (GSI Helmholtz Centre for Heavy Ion Research)

MC6 - WEP6101 Extended Maintenance and Gradual Replacement of MIL-1553-based Field Network at GSI
Volker Kleipa (GSI Helmholtz Centre for Heavy Ion Research)

MC6 - WEP6102 A Python Framework for Integration of Measurements into the EPICS Control System
Patrick Schreiber (Karlsruhe Institute of Technology)

MC6 - WEP6103 IFMIF-DONES control systems and testing platform
Manuel J. Gutiérrez (IFMIF-DONES España)

MC6 - WEP6104 RF-API: A Modular Control Framework in EPICS for RF Systems at CLARA
Nirav Joshi (Science and Technology Facilities Council)

MC6 - WEP6105 Vertical Emittance Control Using the DLS-MBF Tune PLL Excitation at the ESRF-EBS
Benoît Roche (European Synchrotron Radiation Facility)

MC6 - WEP6106 Upgrade Plan for the ESRF Fast Orbit Feedback
Marie Penot (European Synchrotron Radiation Facility)

MC6 - WEP6107 Fast orbit measurements at SOLEIL / SOLEIL II
Sami Habet (Synchrotron soleil)

MC6 - WEP6108 Studies of longitudinal bunch-by-bunch feedback for SOLEIL II
Elene Kravishvili (Université Paris-Saclay)

MC6 - WEP6109 Test Bench Design and First Measurement Results for the PETRA IV FOFB actuator chain
Adeel Amjad (Deutsches Elektronen-Synchrotron DESY)

MC6 - WEP6110 AC measurements of the first PETRA IV fast corrector magnet prototypes
Sven Pfeiffer (Deutsches Elektronen-Synchrotron DESY)

MC6 - WEP6111 Highlights of Spill Optimization System Usage at GSI and Progress of Controls Integration
Philipp Niedermayer (GSI Helmholtz Centre for Heavy Ion Research)

MC6 - WEP6112 Rolling upgrade of BESSY II orbit feedback.
Guenther Rehm (Helmholtz-Zentrum Berlin für Materialien und Energie)

MC6 - WEP6113 Synchronized Demultiplexing of a Beam Current Signal for a Bunch-By-Bunch Longitudinal Feedback System
Christoph Jürgen Reinwald (Technical University of Darmstadt)

MC6 - WEP6114 Towards fast orbit correction: a modular and extensible global orbit feedback system
Amro Aljadaa (Synchrotron-Light for Experimental Science and Applications in the Middle East)

MC6 - WEP6115 Automated software workflow for accelerator control systems using containerization
Amro Aljadaa (Synchrotron-Light for Experimental Science and Applications in the Middle East)

MC6 - WEP6116 Tune Compensation for Insertion Devices Motion at the SOLARIS Storage Ring
Maria Ünal (SOLARIS National Synchrotron Radiation Centre)

MC6 - WEP6117 Bunch-by-Bunch Phase Pick-Up System in the SPS
Arthur Spierer (European Organization for Nuclear Research)

MC6 - WEP6118 Upgrade of the LHC Low-Level RF Beam-Control for the Digital Frequency Distribution over White-Rabbit
Arthur Spierer (European Organization for Nuclear Research)

MC6 - WEP6119 From Virtual Design to Real Implementation of a beamline in an already existing complex: the successful example of the SABINA project
Mario Del Franco (Istituto Nazionale di Fisica Nucleare)

MC6 - WEP6120 An automated production test suite for capacitive alignment sensor conditioning electronics
Roberto Fernandez Bautista (European Organization for Nuclear Research)

MC6 - WEP6121 High-Precision Three-Axis Teslameter for Superconducting Magnet Alignment of a Gyrotron at the Swiss Plasma Center
Dragana Popovic Renella (SENIS AG)

MC6 - WEP6122 Radiation Safety Challenges associated with the Very Low Emittance Storage Ring Upgrade of Synchrotron SOLEIL
Jean-Baptiste PRUVOST (Synchrotron soleil)

MC6 - WEP6123 Beam Loss Study for the L-shaped Corrugated Structure at European XFEL
Jiacheng Wu (Deutsches Elektronen-Synchrotron DESY)

MC6 - WEP6124 Radiation Protection for Laser-Plasma Accelerator Facilities at DESY
Sven Zander (Deutsches Elektronen-Synchrotron DESY)

MC6 - WEP6125 Neutron Transport and Moderator Performance Analysis in the NEAR Station of CERN n_TOF Facility
Gediminas Stankunas (Lithuanian Energy Institute)

MC6 - WEP6126 RF coupling choices, power requirements, and their impact on transients in the PERLE energy recovery linac
Frédéric Bouly (Laboratoire de Physique Subatomique et de Cosmologie)

MC6 - WEP6127 GSI Operation Statistics in the FAIR Construction Phase (2012 - 2025): Trends, Failures and Lessons Learned
Oksana Geithner (GSI Helmholtz Centre for Heavy Ion Research)

MC6 - WEP6128 From Manual Checks to Automated Workflows: A Commissioning Tool for GSI and FAIR
Oksana Geithner (GSI Helmholtz Centre for Heavy Ion Research)

MC6 - WEP6129 Exploiting Bluesky to Enhance Undulator Characterisation and Commissioning Processes at BESSY II
Ed Rial (Helmholtz-Zentrum Berlin für Materialien und Energie)

MC6 - WEP6130 Asset Management Workflows for cSTART using Snipe-IT
Julian Gethmann (Karlsruhe Institute of Technology)

MC6 - WEP6131 ON-THE-FLY SCANNING: IMPROVING SCAN TIME OF XAFS AT BM08-XAFS/XRF BEAMLINE
Anas Mohammad (Synchrotron-Light for Experimental Science and Applications in the Middle East)

MC6 - WEP6132 Characterization of Beam Loss at MAX IV In-Vacuum Insertion Devices
Michael Holz (MAX IV Laboratory)

MC6 - WEP6133 Reliability Analysis of the Quench Detection System upgrade for the LHC Individually Powered Quadrupoles and Dipoles and the Inner Triplet magnets
Lukas Felsberger (European Organization for Nuclear Research)

MC6 - WEP6134 Balancing Stability and Ambition: LHC Availability in Run 3
Lukas Felsberger (European Organization for Nuclear Research)

MC6 - WEP6135 Availability Assurance in the FCC-ee Technical Design Phase
John Heron (European Organization for Nuclear Research)

MC6 - WEP6136 Online performance monitoring and early fault detection for the B-train real-time field measurement systems at CERN
Matthias Bonora-Tam (European Organization for Nuclear Research)

MC6 - WEP6137 Quality Assurance for CERN accelerator beam-transfer HL-LHC and Consolidation deliverables
Dyfan Jones (European Organization for Nuclear Research)

MC6 - WEP6138 A Beam Abort System for the Diamond-II Storage Ring
Andrew Potter (Diamond Light Source)

MC6 - WEP6139 Mn-Doped $0.6BiFeO_3$–$0.4BaTiO_3$ Ferroelectric Ceramics and PLD Thin Films for Fast-Tuning RF Components in Particle Accelerators
Norayr Martirosyan (National Polytechnic University of Armenia)

MC6 - WEP6140 Integrating Fast Beam Interlocks into an Event-Based Timing System
Tilen Zagar (Cosylab)

MC6 - WEP6141 Unified Timing and Fast-Interlock Network Using White Rabbit for Large-Scale Accelerators
Juan Fernandez (Safran Electronics & Defense Spain S.L.)

MC6 - WEP6142 Design and Performance of a MicroTCA-Based LLRF Hardware Platform for the ALBA Synchrotron at the 1.5 GHz Third Harmonic
Juan Fernandez (Safran Electronics & Defense Spain S.L.)

MC6 - WEP6143 AWAKE Laser Synchronisation and Timing Distribution
Joshua Gregory (Lancaster University)

MC6 - WEP6144 Modification of the transverse electron bunch profile with spatial light modulator at FLUTE
Thiemo Schmelzer (Karlsruhe Institute of Technology)

MC6 - WEP6145 The MYRRHA phase 1 MTCA.4-based LLRF system
Andrea Bellandi (Belgian Nuclear Research Centre)

MC6 - WEP6146 RF system status for PERLE
Frédéric Bouly (Laboratoire de Physique Subatomique et de Cosmologie)

MC6 - WEP6148 Detuning estimation for a doubly-fed normal-conducting gun
Max Herrmann (Deutsches Elektronen-Synchrotron DESY)

MC6 - WEP6149 Combined Setpoint and Feed Forward Optimization for Field and Resonance Control
Bozo Richter (Deutsches Elektronen-Synchrotron DESY)

MC6 - WEP6150 DLLRF & Interlock System Commissioning in preparation for the Elettra 2.0
Cristina Pasotti (Elettra-Sincrotrone Trieste S.C.p.A.)

MC6 - WEP6151 A New Generation of Digital Low Level RF Control Systems
Michele Corvino (SYES)

MC6 - WEP6152 Analog Down-Conversion and Digital Readout System for a Cavity BPM at ATF
Juan Carlos Fernandez Ortega (Instituto de Fisica Corpuscular)

MC6 - WEP6153 Upgrade of the CERN Proton Synchrotron Beam Control System
Francisco Javier Diaz Ferreira (European Organization for Nuclear Research)

MC6 - WEP6154 Benchmarking beam dynamics simulations for the MYRRHA Phase 1 accelerator
Lennert De Keukeleere (Belgian Nuclear Research Centre)

MC6 - WEP6155 High Level Software and Automation for Measurements using the Transverse Deflecting Structures at the EuXFEL
Stuart Walker (Deutsches Elektronen-Synchrotron DESY)

MC6 - WEP6156 Surrogate models for the European XFEL operation
Stuart Walker (Deutsches Elektronen-Synchrotron DESY)

MC6 - WEP6157 Bayesian optimisation for longitudinal phase space shaping in start-to-end simulations
Stuart Walker (Deutsches Elektronen-Synchrotron DESY)

MC6 - WEP6158 Turning Logbook Data into Operational Insight with a new Statistics Service at GSI and FAIR
Harvey Stemmler (GSI Helmholtz Centre for Heavy Ion Research)

MC6 - WEP6159 Extension of the BENNO Online Model Application at GSI
Christoph Hessler (GSI Helmholtz Centre for Heavy Ion Research)

MC6 - WEP6160 HZB Twin architektur: General concepts: review and adaptions after first use.
Waheedullah Sulaiman Khail (Helmholtz-Zentrum Berlin für Materialien und Energie)

MC6 - WEP6161 Lessons learned building and deploying an accelerator digital twin
Waheedullah Sulaiman Khail (Helmholtz-Zentrum Berlin für Materialien und Energie)

MC6 - WEP6162 Real-Time Scientific Data Processing using ASAP::O Framework
Raziyeh Tabatabaei (Karlsruhe Institute of Technology)

MC6 - WEP6163 Inovesalib: A Modular Vlasov-Fokker-Planck Solver Framework
Felipe Donoso (Karlsruhe Institute of Technology)

MC6 - WEP6164 Providing reproducibility and accessibility of research software development for accelerator physics at KARA
Felipe Donoso (Karlsruhe Institute of Technology)

MC6 - WEP6165 Generic Python Algorithm Plugin for the EPICS Area Detector Framework
Tilen Zagar (Cosylab)

MC6 - WEP6166 Prospects for the Introduction of Digital Twins in Experimental Facilities - an Integration of Facility Data Management Systems with Machine Learning-based Techniques
Federico Ravotti (European Organization for Nuclear Research)

MC6 - WEP6167 Developing a Real-Time Data Pipeline for Mechanical Digital Twin Applications in Particle Accelerators
Oscar Sacristan De Frutos (European Organization for Nuclear Research)

MC6 - WEP6169 Sample Efficient Machine Learning with Physics-Informed Kernel Methods and Sampling Techniques
Shaun Preston (University of Oxford)

MC6 - WEP6170 Pipelines: A Node-Based Editor for Streamlined Optimisation Prototyping in the Control Room
Shaun Preston (University of Oxford)

MC6 - WEP6171 Automated RF Conditioning on CLARA
Bradley Wilson (ASTeC, STFC Daresbury Laboratory)



Thursday, May 21, 2026

Oral programme **277**

Poster Session **280**

Only one author is identified in this document due to space constraints. The full and final version can be found in the conference application during the conference and in the proceedings afterwards.

Oral programme

THI2M MC2 - Photon Sources and Electron Accelerators (Invited)

May 21, 2026 **9:00 a.m. / 10:30 a.m.**

Chair: Viktor Malka (Weizmann)

THI2M01 **9:00 a.m.**

MAX 4U, an upgrade of the MAX IV 3 GeV ring.

Eshraq Al-Dmour (MAX IV Laboratory)

THO2M MC2 - Photon Sources and Electron Accelerators (Contributed)

May 21, 2026 **9:00 a.m. / 10:30 a.m.**

Chair: Viktor Malka (Weizmann)

THO2M01 **9:30 a.m.**

First lasing and stable operation of a direct amplification enabled harmonic generation free electron laser

Zheng Qi (Shanghai Advanced Research Institute)

THO2M02 **9:50 a.m.**

Results of the First Interferometric Measurements of Undulator Radiation from Single Electrons

Giulio Stancari (Fermi National Accelerator Laboratory)

THO2M03 **10:10 a.m.**

Demonstration of mode-locked frequency comb for an x-ray free-electron laser

Wenxiang Hu (Paul Scherrer Institute)

THI3T MC3 - Novel Particle Sources and Acceleration Techniques (Invited)

May 21, 2026 **9:00 a.m. / 10:30 a.m.**

Chair: Sarah Cousineau (ORNL)

THI3T01 **9:00 a.m.**

Laser plasma accelerated proton bunches surpassing 100 MeV

Ulrich Schramm (Helmholtz-Zentrum Dresden-Rossendorf)

THO3T MC3 - Novel Particle Sources and Acceleration Techniques (Contributed)

May 21, 2026 **9:00 a.m. / 10:30 a.m.**

Chair: Sarah Cousineau (ORNL)

THO3T01 **9:30 a.m.**
Wakefield dephasing measurement of a self-modulating proton bunch.
Helena Jaworska (Heinrich Heine University Düsseldorf)

THO3T02 **9:50 a.m.**
Terahertz Techniques in the Advanced Accelerator Landscape
Morgan Hibberd (University of Manchester)

THO3T03 **10:10 a.m.**
Generation of tunable sub-femtosecond XFEL pulses by electron bunch recompression using reverse-energy chirp
Kenji Yasutome (RIKEN SPring-8 Center)

THI4M MC4 - Hadron Accelerators (Invited)

May 21, 2026 **11:00 a.m. / 12:30 p.m.**

Chair: Liangting Sun (IMP)

THI4M01 **11:00 a.m.**
Progress and status of high intensity heavy ion accelerator facility (HIAF) in China
Jiancheng Yang (Institute of Modern Physics, Chinese Academy of Sciences)

THO4M MC4 - Hadron Accelerators (Contributed)

May 21, 2026 **11:00 a.m. / 12:30 p.m.**

Chair: Liangting Sun (IMP)

THO4M01 **11:30 a.m.**
Update on the FAIR Machine Installation Status
Janet Schmidt (GSI Helmholtz Centre for Heavy Ion Research)

THO4M02 **11:50 a.m.**
Beam commissioning and upgrade progress for the CSNS-II RCS
Ming-Yang Huang (Institute of High Energy Physics)

THO4M03 **12:10 p.m.**
Plasma-Assisted Space-Charge Neutralization for High-Current Cyclotron Axial Injection Using Beam-Ionized H2 and Kr Gas
Chong Shik Park (Korea University Sejong Campus)

THI6T MC6 - Beam Instrumentation, Controls, Feedback & Operational Aspects (Invited)

May 21, 2026 **11:00 a.m. / 12:30 p.m.**

Chair: Toru Hara (RIKEN)

THI6T01 **11:00 a.m.**

Overview of the beam position monitors development for the next generation light sources

Laura Torino (ALBA Synchrotron (Spain))

THO6T MC6 - Beam Instrumentation, Controls, Feedback & Operational Aspects (Contributed)

May 21, 2026 **11:00 a.m. / 12:30 p.m.**

Chair: Toru Hara (RIKEN)

THO6T01 **11:30 a.m.**

Emittance measurement of the CERN antimatter beam for the GBAR experiment

Sarah GEFFROY (Laboratoire de Physique des 2 Infinis Irène Joliot-Curie)

THO6T02 **11:50 a.m.**

Development of a new ultraslow muon beam diagnostic system for the J-PARC muon g-2/EDM experiment

Mayu Wada (The University of Tokyo)

THO6T03 **12:10 p.m.**

Achieve a record dynamic range of halo diagnostics with a novel fluorescence wire concept

Renjun Yang (Institute of High Energy Physics)

Poster Session

THV Thursday Poster Session
(Invited poster)

May 21, 2026 **4:00 p.m. / 6:00 p.m.**

MC2 - THV2001 Status of the PETRA IV accelerators upgrade
Riccardo Bartolini (Deutsches Elektronen-Synchrotron DESY)

MC2 - THV2002 Overview of attosecond hard X-ray free-electron laser development at the European XFEL
Jiawei Yan (Deutsches Elektronen-Synchrotron DESY)

MC2 - THV2003 UK XFEL: the UK vision for next-generation XFELs
David Dunning (Science and Technology Facilities Council)

MC2 - THV2004 Overview of electron beams for compact tools of ultrafast science
Vitaliy Goryashko (Uppsala University)

MC4 - THV4001 Simultaneous acceleration of two ions with unequal mass-to-charge ratio in a synchrotron
David Ondreka (GSI Helmholtz Centre for Heavy Ion Research)

MC5 - THV5301 Design of NSLS-II lattice with complex bend replacement
Guimei Wang (Brookhaven National Laboratory)

MC5 - THV5302 Using Neural-Network Ansatz for the Generating Function in the Hamilton-Jacobi Equation to Obtain Symplectic Transfer Maps for Elements with Any Magnetic Field Configuration
Ihar Lobach (Argonne National Laboratory)

MC5 - THV5303 A Hybrid Physics and Data-Driven Modeling Framework for Accelerators with Automatic Differentiation
Yue Hao (Facility for Rare Isotope Beams)

MC5 - THV5602 Universal Representation of Chromatic Aberration in Electron Beam Optics
Hitoshi Tanaka (RIKEN SPring-8 Center)

MC5 - THV5603 Application of deep learning methods for online beam optics and coupling feedback in synchrotron light sources
Liyuan Tan (Shanghai Institute of Applied Physics)

THP

Thursday Poster Session

(Poster Presentation)

May 21, 2026 **4:00 p.m. / 6:00 p.m.**

MC2 - THP2001 Beam dynamics studies for the light upgrade of the ESRF booster
Nicola Carmignani (European Synchrotron Radiation Facility)

MC2 - THP2002 Measurements and simulations of Intra-Beam Scattering at the ESRF EBS storage ring
Nicola Carmignani (European Synchrotron Radiation Facility)

MC2 - THP2003 Surrogate modeling of beam parameters in PETRA IV.
Ilya Agapov (Deutsches Elektronen-Synchrotron DESY)

MC2 - THP2006 Realisation of the 1.5 GHz Singel-Mode-Cavity for PETRA IV
Michael Bousonville (Deutsches Elektronen-Synchrotron DESY)

MC2 - THP2007 Upgrade of the Metrology Light Source to MLS+
Arnold Kruschinski (Helmholtz-Zentrum Berlin für Materialien und Energie)

MC2 - THP2008 Experimental Characterization of Head-Tail Instabilities in the SOLARIS Storage Ring
Jacek Biernat (SOLARIS National Synchrotron Radiation Centre)

MC2 - THP2009 ALBA II Accelerator Upgrade Project Status
Francis Perez (ALBA Synchrotron (Spain))

MC2 - THP2010 Radiation-Inclusive kickmap analysis of insertion devices and mitigation strategies for MAX4U
Gustavo Perez Segurana (MAX IV Laboratory)

MC2 - THP2011 Final Phase #1 Alignment of the SLS 2.0 Storage Ring
Michael Böge (Paul Scherrer Institute)

MC2 - THP2012 Phase #1 Commissioning of SLS 2.0
Michael Böge (Paul Scherrer Institute)

MC2 - THP2013 Accelerator Fault Handling at SLS 2.0
Felix Armborst (Paul Scherrer Institute)

MC2 - THP2014 Initial User Operation of SLS 2.0
Felix Armborst (Paul Scherrer Institute)

MC2 - THP2015 SLS 2.0 Lifetime Studies
Jonas Kallestrup (Paul Scherrer Institute)

MC2 - THP2016 Initial Commissioning Simulations for the Diamond-II Booster
Dmitrii Rabusov (Diamond Light Source)

MC2 - THP2017 Comparison of numerical methods to determine quadrupole centres for beam based alignment
Ian Martin (Diamond Light Source)

MC2 - THP2018 Periodic transient beam loading instability in Diamond-II
Dmitrii Rabusov (Diamond Light Source)

MC2 - THP2019 Testing of a Prototype Stripline Kicker for Diamond-II
Richard Fielder (Diamond Light Source)

MC2 - THP2020 Operation, developments and sustainability at the ESRF-EBS light source
Jean-Luc Revol (European Synchrotron Radiation Facility)

MC2 - THP2021 Studies for a high gradient full energy 6GeV injector linac for the ESRF-EBS
Jean-Luc Revol (European Synchrotron Radiation Facility)

MC2 - THP2022 Error sensitivity and tolerance studies for a 6GeV high gradient injector linac for the ESRF-EBS
Jean-Luc Revol (European Synchrotron Radiation Facility)

MC2 - THP2023 The Cool copper Operation Linac Demonstrator project
Jean-Luc Revol (European Synchrotron Radiation Facility)

MC2 - THP2024 Design of a non-linear kicker injection scheme of the ESRF-EBS
Antonin Sauret (European Synchrotron Radiation Facility)

MC2 - THP2025 Evaluation of the performances of a Non-Linear Kicker injection scheme at the European Synchrotron Radiation Facility
Antonin Sauret (European Synchrotron Radiation Facility)

MC2 - THP2026 Harmonic Cavity Simulations for the ESRF
Lee Carver (European Synchrotron Radiation Facility)

MC2 - THP2027 Observations of Longitudinal Low Frequency Oscillations at the ESRF
Lee Carver (European Synchrotron Radiation Facility)

MC2 - THP2028 SOLEIL 2025 Operational Status
Laurent Nadolski (Synchrotron soleil)

MC2 - THP2029 Towards a non-linear modeling of the combined sextupole-corrector magnets at SOLEIL II
Laurent Nadolski (Synchrotron soleil)

MC2 - THP2030 Preliminary studies on the insertion device compensation scheme for SOLEIL II
Yuejing Huang (University of Science and Technology of China)

MC2 - THP2031 PETRA III Operation and Studies in 2025
Joachim Keil (Deutsches Elektronen-Synchrotron DESY)

MC2 - THP2032 Plans for the PETRA IV RF system
Chris Christou (Deutsches Elektronen-Synchrotron DESY)

MC2 - THP2033 Designing Radiation Protection for PETRA IV: Concepts and Challenges
Eva Panofski (Deutsches Elektronen-Synchrotron DESY)

MC2 - THP2035 Simulated Commissioning and Lattice Robustness for BESSY III
Benat Alberdi-Esuain (Helmholtz-Zentrum Berlin für Materialien und Energie)

MC2 - THP2036 Echo-enabled harmonic generation at electron storage rings
Shaukat Khan (TU Dortmund University)

MC2 - THP2037 Space-charge-enhanced energy modulation at FERMI
Shaukat Khan (TU Dortmund University)

MC2 - THP2038 Undulator radiation from a single electron in a storage ring
Shaukat Khan (TU Dortmund University)

MC2 - THP2039 Elettra 2.0 - The new frontier of synchrotron radiation
Emanuel Karantzoulis (Elettra-Sincrotrone Trieste S.C.p.A.)

MC2 - THP2040 Operational aspects of crab cavities at the Elettra 2.0 storage ring light source
Simone Di Mitri (Elettra-Sincrotrone Trieste S.C.p.A.)

MC2 - THP2041 Chicane-free laser heater system for mitigation of microbunching instability in linac-FELs
Simone Di Mitri (Elettra-Sincrotrone Trieste S.C.p.A.)

MC2 - THP2042 Recalculation of brilliance of X-ray sources via Lambert function for SASE FELs
Simone Di Mitri (Elettra-Sincrotrone Trieste S.C.p.A.)

MC2 - THP2043 Numerical and experimental benchmarking of microbunching instability with intrabeam scattering in linac-FELs
Simone Di Mitri (Elettra-Sincrotrone Trieste S.C.p.A.)

MC2 - THP2044 Analysis of SOMs and HOMs in the CRAB Cavities at the Elettra 2.0 Storage Ring Light Source
Nuaman Shafqat (Elettra-Sincrotrone Trieste S.C.p.A.)

MC2 - THP2045 Preliminary thermal load calculations of supercon-ducting deflecting cavities for elettra 2.0
Marco Modica (Elettra-Sincrotrone Trieste S.C.p.A.)

MC2 - THP2046 Utilizing the SKIF Storage Ring Structure Symmetry to Enhance Optics Measurement and Correction Efficiency
Rasim Mamutov (Budker Institute of Nuclear Physics)

MC2 - THP2047 Heat load distribution in case of sudden beam loss for ALBA-II
Oscar Blanco-Garcia (ALBA Synchrotron (Spain))

MC2 - THP2048 The Implementation Program for the ALBA II Upgrade
Ferran Fernandez (ALBA Synchrotron (Spain))

MC2 - THP2049 Longitudinal injection simulations for the proposed upgrade at MAX IV.
Adam Dixon (MAX IV Laboratory)

MC2 - THP2050 A comparison between arc-like and chicane-like bunch compression for X-ray free-electron lasers
Adam Dixon (MAX IV Laboratory)

MC2 - THP2051 Insertion devices characterization at the SLS 2.0
Simona Bettoni (Paul Scherrer Institute)

MC2 - THP2052 Insertion Devices Feed Forward at SLS 2.0
Simona Bettoni (Paul Scherrer Institute)

MC2 - THP2053 Status of high brightness optics for the Diamond-II storage ring upgrade
Ian Martin (Diamond Light Source)

MC2 - THP2054 Top-up Safety Simulations for the Diamond-II Storage Ring Upgrade.
Andrew Potter (Diamond Light Source)

MC2 - THP2055 Design and optimisation of the lattice for the UK-XFEL spreader
Andrew Potter (Diamond Light Source)

MC2 - THP2056 Linear and Non-Linear Optics Optimisation for the Diamond-II Storage Ring
Neven Blaskovic Kraljevic (Diamond Light Source)

MC2 - THP2057 Characterisation and Optimisation of the Diamond Linac in Preparation for the Diamond-II Upgrade
Neven Blaskovic Kraljevic (Diamond Light Source)

MC2 - THP2058 Impact of Injection Error on EUV FEL Performance in an APL-based Beamline
Mihail Miceski (Extreme Light Infrastructure Beamlines)

MC2 - THP2060 Multiplexed Photoinjector Optimization Enabled by the Next-Generation Photocathode Laser System at the European XFEL
Ye Chen (Deutsches Elektronen-Synchrotron DESY)

MC2 - THP2061 Prospects for Achieving Fundamental-Mode Lasing Above 30 keV at the European XFEL
Ye Chen (Deutsches Elektronen-Synchrotron DESY)

MC2 - THP2062 Design of a high peak power THz FEL driven by a PITZ-like photoinjector
Duo Xu (Deutsches Elektronen-Synchrotron DESY)

MC2 - THP2063 Reconstructing Attosecond Current Spikes at EuXFEL via Multi-Band Coherent Radiation
Filippo Sottocorona (Deutsches Elektronen-Synchrotron DESY)

MC2 - THP2064 Impact of Slice Energy Spread on the Performance of Second Harmonic and Direct Self-Seeding at High Photon Energy at the European XFEL
Lu Cao (Deutsches Elektronen-Synchrotron DESY)

MC2 - THP2065 Study of the relationship between reverse tapering and detuning using monochromatic seeding
Gianluca Geloni (European X-Ray Free-Electron Laser)

MC2 - THP2066 Attoseconds pulse generation at the European XFEL
Filippo Sottocorona (Deutsches Elektronen-Synchrotron DESY)

MC2 - THP2067 Investigation of Thermal Degradation and Stability in Multi-Alkali Antimonide Photocathodes: NaKSb (Cs) vs KCsSb
Daniele Sertore (Istituto Nazionale di Fisica Nucleare, Laboratori Acceleratori e Superconduttività Applicata)

MC2 - THP2069 Compensating The Effect of Asymmetrically Placed Undulators in FODO Lattices
Johann Zemella (Deutsches Elektronen-Synchrotron DESY)

MC2 - THP2070 Simulation Studies of SRF CW Photoinjector Brightness Optimization for Different RF Gun Gradients and Photocathode Laser Pulse Shapes
Sumaira Zeeshan (Deutsches Elektronen-Synchrotron DESY)

MC2 - THP2071 Sustainable Data Transformation Strategies for Particle and Field Modeling Free-Electron Lasers
Pardis Niknejadi (Deutsches Elektronen-Synchrotron DESY)

MC2 - THP2072 Multimodal and Multi-Color Generation in Seeded FELs
Pardis Niknejadi (Deutsches Elektronen-Synchrotron DESY)

MC2 - THP2073 Upgrade of the High Repetition Rate FEL FLASH to allow simultaneous SASE and External Seeding Operation
Katja Honkavaara (Deutsches Elektronen-Synchrotron DESY)

MC2 - THP2075 Coherent Twin-Pulse Generation at XFELs: Dual-Injector-Laser Production of SASE and HXRSS Pairs
Marc Guetg (Deutsches Elektronen-Synchrotron DESY)

MC2 - THP2076 Quasi-Steady-State Microbunching From Multi-Turn Laser Modulation at the Metrology Light Source
Arnold Kruschinski (Helmholtz-Zentrum Berlin für Materialien und Energie)

MC2 - THP2077 Experiments performed with the Variable Polarization Afterburner at the European XFEL
Suren Karabekyan (European X-Ray Free-Electron Laser)

MC2 - THP2078 The attosecond technology program at the European XFEL
Gianluca Geloni (European X-Ray Free-Electron Laser)

MC2 - THP2080 Advancing Seeded-FEL Performance at FERMI: Operational Status and Future Perspectives
Giovanni Campri (Sapienza University of Rome)

MC2 - THP2081 SABINA FIRST SIGHTS: The user facility with THz-MIR polarized radiation provided with a Free Electron Laser at its first electron beam run
Ilaria Balossino (Istituto Nazionale di Fisica Nucleare)

MC2 - THP2082 Study of Beam Dynamics in Magnetic Electron Buncher for Novosibirsk Free Electron Laser
Shamil Lachynov (Budker Institute of Nuclear Physics)

MC2 - THP2083 Simulation studies on different source points in advanced FEL schemes
Francesca Curbis (Lund University)

MC2 - THP2084 SwissFELplus: a Mid-Term Upgrade Plan for the Swiss Free Electron Laser
Thomas Schietinger (Paul Scherrer Institute)

MC2 - THP2085 Dipole Mode Wakefields and Beam Dynamics Tracking Simulations for the UK XFEL Main Accelerating Linacs
Anthony Gilfellon (Cockcroft Institute)

MC2 - THP2086 RF System Upgrade of ELSA electron linac at CEA
Martin Collet (CEA DAM île-de-France)

MC2 - THP2087 PITZ Facility after the Upgrade: High Brightness Beams for Photo Injector R&D and feeding THz and Radiation Biology Experimental Stations
Matthias Gross (Deutsches Elektronen-Synchrotron)

MC2 - THP2088 The ARES linear accelerator at DESY A Precision Tool for Accelerator Science, Technology and Medical Application Developments
Florian Burkart (Deutsches Elektronen-Synchrotron DESY)

MC2 - THP2089 Design and Performance of Multi-Modal THz Sources for DALI
Ulf Lehnert (Helmholtz-Zentrum Dresden-Rossendorf)

MC2 - THP2090 Optical Klystron Operation in the Terahertz Regime
Ulf Lehnert (Helmholtz-Zentrum Dresden-Rossendorf)

MC2 - THP2091 Dresden Advanced Light Infrastructure DALI - Machine Design Overview
Ulf Lehnert (Helmholtz-Zentrum Dresden-Rossendorf)

MC2 - THP2092 Commissioning Status of the RF System for the FLUTE Linear Accelerator
Anton Malygin (Karlsruhe Institute of Technology)

MC2 - THP2093 Finding operation conditions for ultra-high dose-rate electron beam delivery at FLUTE
Miriam Brosi (Karlsruhe Institute of Technology)

MC2 - THP2094 Beam Dynamics Investigations Accompanying the FLUTE Facility Upgrade
Miriam Brosi (Karlsruhe Institute of Technology)

MC2 - THP2095 RF Gun installation and commissioning setup for ELI-GBS
Hermann Schubert (Horia Hulubei National Institute for R and D in Physics and Nuclear Engineering)

MC2 - THP2096 RF Phasing for ELI-GBS Linear Accelerator
Cornel Dinu Cirdei (Horia Hulubei National Institute for R and D in Physics and Nuclear Engineering)

MC2 - THP2097 A roadmap towards Ø.1 um thermionic-cathode-based DC gun for FEL applications
Vitaliy Goryashko (Uppsala University)

MC2 - THP2098 Design of a high-repetition rate thermionic injector for SACLA upgrade
Vitaliy Goryashko (Uppsala University)

MC2 - THP2099 Completion and beam commissioning of the new CLEAR beam line
Wilfrid Farabolini (European Organization for Nuclear Research)

MC2 - THP2100 Compression and Linearisation Studies on CLARA
James Jones (Science and Technology Facilities Council)

MC2 - THP2101 A Semi-Analytic, Matrix-Based Model for the Beam Arrival Time Jitter
Mark Johnson (Science and Technology Facilities Council)

MC2 - THP2102 High quantum efficiency alkali-antimonide photocathodes for perle high current DC gun
Melanie De Vos (Université Paris-Saclay, CNRS/IN2P3, IJCLab)

MC2 - THP2103 Assessing Corrector-Integrated Quadrupoles for PERLE
Alex Fomin (Université Paris-Saclay, CNRS/IN2P3, IJCLab)

MC2 - THP2104 High current photogun for the energy recovery linac PERLE
Maud Baylac (Laboratoire de Physique Subatomique et de Cosmologie)

MC2 - THP2106 The Compton Backscattering Source COBRA at the S-DALINAC
Lisa Beate Dingeldein (Technical University of Darmstadt)

MC2 - THP2107 Installation and First Tests of a High Brightness Beam Test Facility for ERL Applications at INFN-LASA
Dario Giove (Istituto Nazionale di Fisica Nucleare)

MC2 - THP2108 Experimental investigation of injector halo for PERLE using scaled measurements at CERL
Connor Monaghan (University of Liverpool)

MC2 - THP2109 ELBE Continue wave Superconducting Electron Linac at HZDR, Status, Infrastructure, Beamline Configuration and Capabilities
Najmeh Mirian (Helmholtz-Zentrum Dresden-Rossendorf)

MC2 - THP2110 A Choke-Mode-Cavity with adjustable coupler for the third harmonic RF-system of PETRA IV
Michael Bousonville (Deutsches Elektronen-Synchrotron DESY)

MC2 - THP2111 Reduced Vertical Beta Function in KARA's Short Straight Sections for Future R&D
Patrick Schreiber (Karlsruhe Institute of Technology)

MC2 - THP2112 Crystal Radiators for Accelerators
Pierluigi Fedeli (University of Ferrara)

MC2 - THP2113 Characterisation of linear and non-linear optics of the SOLARIS Storage Ring
Wiktoria Wiatrowska (SOLARIS National Synchrotron Radiation Centre)

MC2 - THP2114 LAYOUT OF ALBA II ACCELERATOR
Llibert Ribo (ALBA Synchrotron (Spain))

MC2 - THP2115 Beam Dynamics Studies for the MAX 4U lattices
Marco Apollonio (MAX IV Laboratory)

MC2 - THP2116 Superradiant Terahertz Radiation Generation at EuXFEL: integration, commissioning, and initial measurements
Karel Peetermans (Deutsches Elektronen-Synchrotron DESY)

MC2 - THP2117 Anti-Resonant Crystal Fibers as Beam-Driven THz Radiators
Karel Peetermans (Deutsches Elektronen-Synchrotron DESY)

MC2 - THP2118 superradiant THz generation and bunch compression at DALI facility
Arthur Delan (Helmholtz-Zentrum Dresden-Rossendorf)

MC2 - THP2119 Characterization of THz radiation at FLUTE
Anton Malygin (Karlsruhe Institute of Technology)

MC2 - THP2120 Numerical Study of an X-ray Compton Source Driven by Laser Plasma Acceleration at LAPLACE-HC Facility
David El Khoury (Institut Polytechnique de Paris)

MC2 - THP2121 Determining an Inverse Compton X-ray Source's Electron Beam Parameters from its X-ray Spectrum by Employing a Genetic Algorithm
Benedikt Günther (Technical University of Munich)

MC2 - THP2122 Initial Commissioning at the STAR Infrastructure
Illya Drebot (Istituto Nazionale di Fisica Nucleare)

MC2 - THP2123 Smart*Light: a compact LINAC-based inverse Compton scattering x-ray source with continuous tunability
Jom Luiten (Eindhoven University of Technology)

MC2 - THP2124 ELI-NP Gamma-ray Beam System - Status update and future
Guangling Chen (Horia Hulubei National Institute for R and D in Physics and Nuclear Engineering)

MC2 - THP2125 First demonstration of MeV electron diffraction using the superconducting RF photoinjector at the Helmholtz-Zentrum Dresden-Rossendorf
Raffael Niemczyk (Helmholtz-Zentrum Dresden-Rossendorf)

MC2 - THP2126 A commercial MeV-UED instrument based on a 2.5 cell RF-Photogun
Verena Kuemper (RI Research Instruments Gmbh)

MC2 - THP2128 Variable sample illumination and angular magnification for the RUEDI ultrafast electron diffraction beamline
Suzanna Percival (Science and Technology Facilities Council)

MC2 - THP2129 Options analysis of MHz injectors for the UK XFEL project
Suzanna Percival (Science and Technology Facilities Council)

MC2 - THP2130 From Cs3Sb to Cs2Te photocathodes on ELSA Accelerator at CEA DAM
Anne-Sophie Chauchat (CEA DAM île-de-France)

MC2 - THP2131 Fabrication and Testing of a Nanostructured Copper Photocathode
Dmitry Bazyl (Deutsches Elektronen-Synchrotron DESY)

MC2 - THP2132 Thermal Stability of Deep-Cryogenic Copper Photocathodes under High-Intensity UV Excitation
Dmitry Bazyl (Deutsches Elektronen-Synchrotron DESY)

MC2 - THP2133 Development of Mo-coated Cu substrates for improving Cs_2Te photocathodes in SRF Gun-II
Rong Xiang (Helmholtz-Zentrum Dresden-Rossendorf)

MC2 - THP2134 Photocathode Strategies for the DALI CW Superconducting THz Light Source
Rong Xiang (Helmholtz-Zentrum Dresden-Rossendorf)

MC2 - THP2135 Status of the Automated Activation of GaAs Photocathodes at Photo-CATCH*
Markus Engart (Technical University of Darmstadt)

MC2 - THP2136 Photoemission study of nanostructured plasmonic photocathodes
Margarita Bulgacheva (Technical University of Darmstadt)

MC2 - THP2137 Status of the Hybrid Electron Gun Development at ELSA
Samuel Kronenberg (University of Bonn)

MC2 - THP2138 The FCC-ee electron source, baseline, and alternative
Zdenek Vostrel (European Organization for Nuclear Research)

MC2 - THP2139 A time-resolved high charge density electron photoemission model for the FCC-ee top-up scheme
Anahita Omoumi (European Organization for Nuclear Research)

MC2 - THP2140 Intrabeam Scattering and 6D Brightness: Modelling, Measurement, and the Road to a Brighter SwissFEL electron source
Thomas Lucas (Paul Scherrer Institute)

MC2 - THP2141 Design, Realisation, and High-Power Operation of the First Travelling-Wave Photo-Emission Electron Gun
Thomas Lucas (Paul Scherrer Institute)

MC2 - THP2143 Delivery of Caesium Telluride Photocathodes to the CLARA Accelerator at Daresbury Laboratory
Hugh Churn (Science and Technology Facilities Council)

MC2 - THP2144 High Power Conditioning of CLARA's RF Structures
Nirav Joshi (Science and Technology Facilities Council)

MC2 - THP2145 Strip-Line based Kicker Design for The ESRF Storage Ring
Thomas Perron (European Synchrotron Radiation Facility)

MC2 - THP2146 A Deflection Arc for a Proposed Second Fan at the European X-ray Free Electron Laser
Stuart Walker (Deutsches Elektronen-Synchrotron DESY)

MC2 - THP2147 Injection Options for the BESSY III Storage Ring*
Jens Voelker (Helmholtz-Zentrum Berlin für Materialien und Energie)

MC2 - THP2148 Injection Studies for Elettra 2.0
Koryun Manukyan (Elettra-Sincrotrone Trieste S.C.p.A.)

MC2 - THP2149 Top-Up Injection Development for the SOLARIS Storage Ring
Adriana Wawrzyniak (SOLARIS National Synchrotron Radiation Centre)

MC2 - THP2150 Electron beam formation in a thermionic electron gun
Serhii Kovalov (National Science Center Kharkiv Institute of Physics and Technology)

MC2 - THP2151 In-vacuum and cryogenic permanent-magnet undulators at the ESRF
Gael Le Bec (European Synchrotron Radiation Facility)

MC2 - THP2152 The SOLEIL II insertion devices
Marie-Emmanuelle Couprie (Synchrotron soleil)

MC2 - THP2153 Wakefield Studies of IVUE32
Paul Volz (Helmholtz-Zentrum Berlin für Materialien und Energie)

MC2 - THP2154 Design, Training and Magnetic Field Characterization of the THz-Undulator Coils for FLUTE
Andreas Grau (Karlsruhe Institute of Technology)

MC2 - THP2155 Upcoming Insertion Devices at MAX IV Facility
Michael Holz (MAX IV Laboratory)

MC2 - THP2156 Modelling of Insertion Devices in Xsuite
Giovanni Iadarola (European Organization for Nuclear Research)

MC2 - THP2157 Demonstration of a transverse gradient undulator in an X-ray free-electron laser
Christoph Kittel (Paul Scherrer Institute)

MC2 - THP2158 The first APPLE X knot undulators: beam commissioning and performance
Sebastian C. Richter (Paul Scherrer Institute)

MC2 - THP2159 Commissioning of novel compact modular in-vacuum undulators
Sebastian C. Richter (Paul Scherrer Institute)

MC2 - THP2160 Full synchronization of a high repetition rate Petawatt laser dedicated to betatron - FEL pump-probe experiments : use case with EUPRAXIA@Sparclab
Antoine COURJAUD (Amplitude Laser)

MC2 - THP2161 Monte Carlo simulations for shielding design of different beamlines at the SLS 2.0
Maria Ilaria Besana (Paul Scherrer Institute)

MC2 - THP2162 First lasing of a cavity based X-ray FEL
Patrick Rauer (Deutsches Elektronen-Synchrotron DESY)

MC3 - THP3001 A Versatile Beam Splitting System for Simultaneous Delivery of Three Beams to Industrial Applications at the GANIL Accelerator
Mathieu Lalande (Grand Accélérateur National d'Ions Lourds)

MC3 - THP3303 Reduction of the Momentum Compaction in the Single FFA Beam Arcs for the CEBAF Upgrade
Dejan Trbojevic (Brookhaven National Laboratory)

MC3 - THP3304 Status of 22 GeV CEBAF Upgrade Using FFA Arcs
Salim Ogur (Thomas Jefferson National Accelerator Facility)

MC3 - THP3305 FFA Beam Transport Demonstration Development for the CEBAF 22 GeV Upgrade
Salim Ogur (Thomas Jefferson National Accelerator Facility)

MC3 - THP3306 Impact of Synchrotron Radiation-Induced Energy Oscillations on Spin and Betatron Tunes in FFA@CEBAF Upgrade
Salim Ogur (Thomas Jefferson National Accelerator Facility)

MC3 - THP3307 Higher-order Mode Focusing Effects in Dielectric Wakefield Acceleration
Gerard Andonian (University of California, Los Angeles)

MC3 - THP3308 Design of a Short-Pulse Septum Power Splitter for Distributed X-band High-Gradient Acceleration
Salih Colmekci (Northern Illinois University)

MC3 - THP3309 Argonne Wakefield Accelerator (AWA) Update: Recent Research Results and Facility Upgrades
Alexander Ody (Argonne National Laboratory)

MC3 - THP3311 Hofmann Stability Charts Revisited for PIP-II: From Classical Theory to Assumption-Free and ML-Driven Maps
Abhishek Pathak (Fermi National Accelerator Laboratory)

MC3 - THP3312 Quantum Accelerator & Wiggler using Extreme Plasmons Excited in Nanofabricated Materials: E-339 at SLAC
Kalyan Tirumalasetty (University of Colorado Denver)

MC3 - THP3314 Design and optimization of a 10.0625 MHz low-frequency buncher for a 201.25 MHZ RFQ accelerator
Kevin Shipman (Los Alamos National Laboratory)

MC3 - THP3315 Characterization of a compact electron buncher with tunable permanent magnet focusing
Kevin Shipman (Los Alamos National Laboratory)

MC3 - THP3317 Effect of the Laser Polarization on Electron Acceleration in Carbon Nanotube Targets
Bruno Silveira Nunes (Instituto de Pesquisas Energéticas e Nucleares)

MC3 - THP3318 Transverse-Longitudinal Wakefield Coupling and Hosing Mitigation in Flat-Beam PWFA
Yunbo Kang (Particle Beam Physics Lab (PBPL))

MC3 - THP3319 Progress on the space plasma experiment at MITHRA
Pratik Manwani (University of California, Los Angeles)

MC3 - THP3320 Extreme radiation emission regime for electron beams in strong focusing ion channels and undulators
Monika Yadav (Old Dominion University)

MC3 - THP3321 Simulation and validation of plasma channel systems for laser plasma accelerators
Nathan Cook (RadiaSoft (United States))

MC3 - THP3324 Slice Emittance and Phase-Space Characterization in a Short-Pulse X-Band Photocathode Gun
John Power (Argonne National Laboratory)

MC3 - THP3325 High-Gradient Radiofrequency Photoinjector with a Detachable Cathode Assembly
Sami Tantawi (Arizona State University)

MC3 - THP3326 Growth and Evaluation of High QE Semiconductor Photocathodes for High-Brightness Electron Sources
Peter Owusu (Arizona State University)

MC3 - THP3328 High-Field Photoemission from Cs2 Te Photocathodes: Monte Carlo Modeling and Experiment
Gaurab Rijal (Northern Illinois University)

MC3 - THP3329 Towards New Generation of Polarized Electron Beams Guns
Vladimir Litvinenko (Stony Brook University)

MC3 - THP3330 Advanced particle acceleration and energy research supported by Long-Wave IR lasers
Igor Pogorelsky (Brookhaven National Laboratory)

MC3 - THP3331 Systematic modelling of optically pumped CO_2 CPA laser amplifier for long-wave infrared laser particle accelerators.
Mikhail Polyanskiy (Brookhaven National Laboratory)

MC3 - THP3332 CW positron beam capture scheme using srf cavities
Salim Ogur (Thomas Jefferson National Accelerator Facility)

MC3 - THP3601 Exploring high energy acceptance Multi-Bend Achromat beamlines for particle therapy
Simon Barg (The University of Melbourne)

MC3 - THP3602 Design Concept of a Heavy-Ion Storage Ring for Multi-Charge-State Beams
Yoshihiro Ishi (Kyoto University)

MC3 - THP3603 Design and test of a choke-mode structure for travelling-wave accelerator
Hongbo Yu (Tsinghua University)

MC3 - THP3604 Study on Dual-pillars Dielectric Laser Acceleration Structures for Relativistic Electrons
Qixin Chen (The University of Tokyo)

MC3 - THP3605 Design of a dielectric laser accelerator structure for low Î² charged particles
Sena Maru (The University of Tokyo)

MC3 - THP3606 R&D progress on a hybrid-type Wakefield Accelerator: Laser Injector & Ø.4 THz Wakefield Power Extractor
Seong Hee Park (Korea University Sejong Campus)

MC3 - THP3607 Current Status of the High-Repetition-Rate Electron Driven Pulsed Muon Source at the SHINE Facility
Jun Kai NG (Shanghai Jiao Tong University)

MC3 - THP3609 Study on energy stability of high-charge bunches from laser plasma accelerators for ring injectors
YiQun Shi (Institute of High Energy Physics)

MC3 - THP3610 Progress of the Beamlines of the Plasma Acceleration Research Platform at IHEP
Haisheng Xu (Institute of High Energy Physics)

MC3 - THP3613 Preliminary Design of an RF-focused Interdigital Drift Tube Linac
Shengjin LIU (China Spallation Neutron Source)

MC3 - THP3614 Design Improvement of a FEBIAD ion source toward RI beam production at the RAON ISOL system
Je Hwan Han (Institute for Basic Science)

MC3 - THP3615 Non-Resonant Multipactor Mechanism and SEY Impact in VHF CW Electron Guns
Yitong Duan (Tsinghua University)

MC3 - THP3616 Cavity Geometry Optimization for Multipactor Suppression in VHF CW Electron Guns
Yitong Duan (Tsinghua University)

MC3 - THP3617 Research on cold field emission in the VHF electron gun
YuanYuan Qin (Tsinghua University)

MC3 - THP3618 Development of a Compact, Cathode-Exchangeable Field-Emission RF Gun
Meng Zhou (Tsinghua University)

MC3 - THP3619 Multi-beam Electron Source for Advanced Electron Microscopy
Zhao Yun (Tsinghua University)

MC3 - THP3620 Photocathode preparation studies based on an In-situ photocathode research system
Xudong Li (Shanghai Advanced Research Institute, Chinese Academy of Sciences)

MC3 - THP3621 4K Superconducting RF Electron Gun
Masao Kuriki (Hiroshima University)

MC3 - THP3622 Prism accelerator based on periodic alternating focusing
liu yuanhao (Shanghai Institute of Applied Physics, Chinese Academy of Sciences)

MC3 - THP3623 Experimental Study on High-Power Continuous-Wave Optical Enhancement Cavities
Yan Zhao (Tsinghua University)

MC3 - THP3624 Enhanced Adhesion of B_4C Thin Films on Titanium Substrates for Neutron Detector Applications
Bangle Zhu (Institute of High Energy Physics, Chinese Academy of Sciences)

MC3 - THP3625 Optimization of Magnetic Field Parameters in AMD for Enhanced Positron Yield
xin xu (University of Science and Technology of China)

MC3 - THP3626 Numerical simulations of electron acceleration driven by heavy ion beams in plasma with alternating density gradients
Jiangdong Li (Institute of Modern Physics, Chinese Academy of Sciences)

MC4 - THP4001 SIS100 - A new and unique heavy ion synchrotron under construction
Peter Spiller (GSI Helmholtz Centre for Heavy Ion Research)

MC4 - THP4002 New capabilities of SIS18 after upgrade program as FAIR injector.
Jens Stadlmann (GSI Helmholtz Centre for Heavy Ion Research)

MC4 - THP4003 The evaluation of a minimal oscillating EDM detectable in a storage ring
Sergey Kolokolchikov (Russian Academy of Sciences)

MC4 - THP4004 G-2 spin precession neutralizing ring lattices and their applications
Sergey Kolokolchikov (Russian Academy of Sciences)

MC4 - THP4005 Correction of long-range beam-beam driven optics perturbations for the LHC
Sasha Horney (European Organization for Nuclear Research)

MC4 - THP4006 Non-linear resonance feed-down - a new technique for correcting high order errors in the LHC
Sasha Horney (European Organization for Nuclear Research)

MC4 - THP4007 Performance and Operational Overview of the 2025 Lead-ion Run in the LHC Injectors
Oliver Hanns (European Organization for Nuclear Research)

MC4 - THP4008 Longitudinal optimization of HL-LHC beams in the CERN SPS
Leandro Intelisano (European Organization for Nuclear Research)

MC4 - THP4009 Results from the HL-LHC Proton Reliability Run in the LHC Injectors
Sara Sainz Perez (European Organization for Nuclear Research)

MC4 - THP4010 Short high-intensity bunches for the AWAKE experiment
Ivan Karpov (European Organization for Nuclear Research)

MC4 - THP4011 Absolute energy and machine length calibration in the SPS
Riccardo De Maria (European Organization for Nuclear Research)

MC4 - THP4012 Beam performance reach at CERN PSB for the ISOLDE facility
Foteini Asvesta (European Organization for Nuclear Research)

MC4 - THP4013 Phase Space Measurements on the ISIS Synchrotron
Sara Karbassi (ISIS Neutron and Muon Source)

MC4 - THP4014 Implementation update of MYRRHA phase 1 (MINERVA)
Ulrich Dorda (Belgian Nuclear Research Centre)

MC4 - THP4015 Construction Status of the NEWGAIN RFQ
Alexandre Deville (Commissariat à l'Energie Atomique et aux Energies Alternatives)

MC4 - THP4016 Status of the LINAC design and prototyping for the ICONE project
Guillaume Ferrand (Commissariat à l'Energie Atomique et aux Energies Alternatives)

MC4 - THP4017 A new beam dynamic design procedure
Alexandre Deville (Commissariat à l'Energie Atomique et aux Energies Alternatives)

MC4 - THP4018 An upgrade of IPHI RFQ
Alexandre Deville (Commissariat à l'Energie Atomique et aux Energies Alternatives)

MC4 - THP4019 Towards Automated Cavity Failure Compensation in the SPIRAL2 SC Linac
Adrien Plaçais (Laboratoire de Physique Subatomique et de Cosmologie)

MC4 - THP4020 Status of the New Heavy Ion Alvarez-Type Injector at GSI
Manuel Heilmann (GSI Helmholtz Centre for Heavy Ion Research)

MC4 - THP4021 Heavy Ion Focusing using a Gabor-Lens inside a Drift Tube Structure
Manuel Heilmann (GSI Helmholtz Centre for Heavy Ion Research)

MC4 - THP4022 The High Brilliance Neutron Source (HBS-I)
Andreas Lehrach (Forschungszentrum Jülich)

MC4 - THP4023 First Beam Test of an Additively Manufactured H-Mode Linac Structure made from Pure Copper
Philipp Müller (Goethe University Frankfurt)

MC4 - THP4024 First Commissioning Results of the New 4-Rod RFQ for Improved Injector Performance at HIT
Rainer Cee (Heidelberg Ion Beam Therapy Centre)

MC4 - THP4025 Conceptual beamline design for complementary experiments at IFMIF-DONES
Luca Bellan (Istituto Nazionale di Fisica Nucleare)

MC4 - THP4026 Update on ESS Medium Beta Cavities at INFN LASA
Daniele Sertore (Istituto Nazionale di Fisica Nucleare, Laboratori Acceleratori e Superconduttività Applicata)

MC4 - THP4027 INFN LASA Activities Toward PIP-II
Rocco Paparella (Istituto Nazionale di Fisica Nucleare)

MC4 - THP4028 A 750 MHz Compact and Versatile C^{6+} Accelerator for Advanced Radiobiology and Therapy Research
Concepcion Oliver (Centro de Investigaciones Energéticas, Medioambientales y Tecnològicas)

MC4 - THP4029 Electromagnetic Simulations and Particle Tracking of a Compact 750 MHz IH DTL Accelerating Cavity
Jorge Feuchtwanger (Ikerbasque)

MC4 - THP4030 ARGITU RFQ bead-pull tuning and RF tests at ESS-Bilbao
Juan Luis Muñoz (ESS Bilbao)

MC4 - THP4031 Cooling skid, thermal characterization and simulations for the ARGITU RFQ at ESS-Bilbao
David Fernandez-Cañoto (ESS Bilbao)

MC4 - THP4032 Compact 3 GHz SCDTL linac design for different charge to mass ratio species acceleration in Advanced Hadron-Therapy systems
Eduardo Martinez Lòpez (Instituto de Fisica Corpuscular)

MC4 - THP4033 Outcomes of the DONES Consolidation project activities
Ivan Podadera (Consorcio IFMIF-DONES España)

MC4 - THP4034 Low energy ion beam formation and transport from a 14.5 GHz ECR ion source for compact applied research accelerators
Amer Ajanovic (European Organization for Nuclear Research)

MC4 - THP4035 Testing of the QWR series for the new ISIS MEBT
Jonathan Cawley (Science and Technology Facilities Council)

MC4 - THP4036 500 MeV normal conducting injector design for ISIS_II neutron and muon facility
Jean-Baptiste Lagrange (Science and Technology Facilities Council)

MC4 - THP4037 FFA magnet prototype for high power pulsed proton driver
Jean-Baptiste Lagrange (Science and Technology Facilities Council)

MC4 - THP4038 Modelling of counter-rotating multi-turn wakefields in the muon collider RCS chain
Leonard Thiele (University of Rostock)

MC4 - THP4039 Overview of the ESS neutrino Super Beam Plus Project
Elham Salehi (European Spallation Source)

MC4 - THP4040 Simulation of Liouvillian multi-turn Injection for Direct Proton Accumulation
Elham Salehi (European Spallation Source)

MC4 - THP4042 Investigations of a Novel Bunch Compression Technique for Hadron Accelerators
Johan Holmberg (Lund University)

MC4 - THP4043 3-Beam laser cooling of relativistic ion beams at the FAIR SIS100
Danyal Winters (GSI Helmholtz Centre for Heavy Ion Research)

MC4 - THP4044 Consolidation of the Antiproton Decelerator Electron Cooler
Adriana Rossi (European Organization for Nuclear Research)

MC4 - THP4045 Performance and evolution of the stochastic cooling system in CERN's Antiproton Decelerator
Wolfgang Höfle (European Organization for Nuclear Research)

MC4 - THP4046 Development of an Optical Beam Profile Monitor for the HZB Cyclotron
Andrea Denker (Helmholtz-Zentrum Berlin für Materialien und Energie)

MC4 - THP4047 An Upgraded Extraction Septum and A New Diagnostic Section for the Bonn Isochronous Cyclotron
Dennis Sauerland (University of Bonn)

MC4 - THP4048 Design and Optimization of a Fast Electrostatic Chopper for FLASH Proton Therapy Radiobiology Experiments.
Demetrio Hermenegildo Saucedo Cuberes (Universidad de Sevilla)

MC4 - THP4049 Traces of the Vortex Effect in PSI Injector II
Christian Baumgarten (Paul Scherrer Institute)

MC4 - THP4051 Design of a Low-Frequency Proton Extraction Line for High-Pulsed Magnetic Field Neutron Scattering at ESS
Mina Akhyani (Forschungszentrum Jülich)

MC4 - THP4052 A monitored neutrino beam at the European Spallation Source
Daniele D'Ago (University of Padua)

MC4 - THP4053 E-gun and test stand development for the pulsed electron lens for space charge compensation at GSI
Kathrin Schulte-Urlichs (GSI Helmholtz Centre for Heavy Ion Research)

MC4 - THP4054 Periodic interactions of ion beams with static or dynamic electron plasmas
Katrin Thoma (Goethe University Frankfurt)

MC4 - THP4055 Confinement of Electron Clouds in a Bending Magnet
Fatima Jafari (Goethe University Frankfurt)

MC4 - THP4056 Machine physics studies for the MYRRHA Phase 1 linac at SCK CEN
Lennert De Keukeleere (Belgian Nuclear Research Centre)

MC4 - THP4057 The Low Energy Beam Transfer (LEBT) line and RFQ for the MYRRHA Phase 1 facility
Lennert De Keukeleere (Belgian Nuclear Research Centre)

MC4 - THP4059 Studies of Transverse Emittance Growth of LHC-type Beams on the Long Injection Plateau of the CERN SPS
Ingrid Mases (European Organization for Nuclear Research)

MC4 - THP4060 Studies of Resonances in the CERN SPS Limiting the LHC Beam Performance
Ingrid Mases (European Organization for Nuclear Research)

MC4 - THP4061 The High Intensity ECN3 project and the SPS Beam Dump Facility at CERN
Matthew Fraser (European Organization for Nuclear Research)

MC4 - THP4062 Commissoning of the S3 Spectrometer : advances, challenges and outlook
Marc-Hervé Stodel (Grand Accélérateur Nat. d'Ions Lourds)

MC4 - THP4063 Update of the beam lines conception of the SPIRAL2-DESIR Project at GANIL Caen France
Luc Perrot (Université Paris-Saclay, CNRS/IN2P3, IJCLab)

MC4 - THP4064 Recent Results of Beam Emittance and Transport at ALTO-LEB Plateform at IJCLAB
Luc Perrot (Université Paris-Saclay, CNRS/IN2P3, IJCLab)

MC4 - THP4065 Development of mass-dependent focusing techniques in quadrupole mass filters
Elian Bouquerel (Institut Pluridisciplinaire Hubert Curien)

MC4 - THP4067 Simulation based machine protection for the Super-FRS
Jan Wirtz (GSI Helmholtz Centre for Heavy Ion Research)

MC4 - THP4068 Non-linear phase space tuning for in-flight Fragment Separators
Daniel Kallendorf (Technical University of Darmstadt)

MC4 - THP4069 Super-FRS controls for commissioning
Stephane Pietri (GSI Helmholtz Centre for Heavy Ion Research)

MC4 - THP4070 Monte-Carlo Simulations of Beamline-Induced Muon Backgrounds for the SHiP Experiment
Florian Stummer (European Organization for Nuclear Research)

MC4 - THP4071 eadevices: A Framework for Reproducible, High-Fidelity Beamline Modelling at CERN
Florian Stummer (European Organization for Nuclear Research)

MC4 - THP4072 Development of a surrogate model of the T09 beamline of the PS East Experimental Area at CERN
Dipanwita Banerjee (European Organization for Nuclear Research)

MC4 - THP4073 Large-scale optimisation of the H4 and M2 beamlines in the SPS North Experimental Area at CERN
Giovanni Dal Maso (European Organization for Nuclear Research)

MC4 - THP4075 Experimental Resonance studies at the ESR
Areso Sherjan (GSI Helmholtz Centre for Heavy Ion Research)

MC4 - THP4076 Measurements and studies on the nonlinear Dispersion in the ESR
Areso Sherjan (GSI Helmholtz Centre for Heavy Ion Research)

MC4 - THP4077 Measurements and studies on the injection efficiency in the ESR
Areso Sherjan (GSI Helmholtz Centre for Heavy Ion Research)

MC4 - THP4078 Development and Technical Feasibility of the Figure-8 Storage Ring Concept for High Current Beam Storage
Simone Schwarz (Facility for Antiproton and Ion Research)

MC4 - THP4079 Retrieving the longitudinal nonlinear tunes from FCT measurements
Julian Rausch (Goethe University Frankfurt)

MC4 - THP4080 Tomographic reconstruction of longitudinal phase space from FCT measurements
Julian Rausch (Goethe University Frankfurt)

MC4 - THP4081 Space charge compensated ion beam extraction
Julian Rausch (Goethe University Frankfurt)

MC4 - THP4083 Development of the spin tune model for EDM investigations at storage rings
Anna Piccoli (University of Ferrara)

MC4 - THP4084 Evaluation of Laser-Assisted Charge-Exchange Injection into The ESSnuSB+ Proton Accumulator
Anatoliy Opanasenko (Uppsala University)

MC4 - THP4085 Oxygen and Neon Ion Beam Performance in the CERN Ion Injector Complex
Reyes Alemany-Fernandez (European Organization for Nuclear Research)

MC4 - THP4087 Status of AISHa Ion Source at CNAO
Stefano Marangoni (National Center for Oncological Hadrontherapy)

MC4 - THP4088 RF-KO Extraction at CNAO for Clinical Beams
Stefano Marangoni (National Center for Oncological Hadrontherapy)

MC4 - THP4089 Development of a Voltage Monitoring System for Ion Sources
Moenir Sakieldien (iThemba LABS)

MC4 - THP4090 Implementation of multi energy extraction configurations at MedAustron
Katrin Holzfeind (TU Wien)

MC4 - THP4091 Progress on mixed He/C beam slow extraction at MedAustron
Elisabeth Renner (TU Wien)

MC4 - THP4092 Influence of Synchro-betatron Resonances on Slow Extraction of High Frequency Bunched Beams at SIS18
Peter Forck (GSI Helmholtz Centre for Heavy Ion Research)

MC4 - THP4093 Flat C/He spills for online range monitoring in particle therapy
Andrii Pastushenko (GSI Helmholtz Centre for Heavy Ion Research)

MC4 - THP4094 Modifications of the High-Energy Beam Transport at GSI and its Subsystems for FAIR
Christoph Hessler (GSI Helmholtz Centre for Heavy Ion Research)

MC4 - THP4095 Automated Minimization of Uncontrolled Beam Loss for Slow Extraction from SIS18
Sabrina Appel (GSI Helmholtz Centre for Heavy Ion Research)

MC4 - THP4096 Optimization of One and Two-Plane Multi-Turn Injection in the SIS18 Synchrotron
Sabrina Appel (GSI Helmholtz Centre for Heavy Ion Research)

MC4 - THP4097 Robust Real-Time Optimization of SIS18 Injection using Gaussian Process MPC
Sabrina Appel (GSI Helmholtz Centre for Heavy Ion Research)

MC4 - THP4098 Status of the FAIR SIS100 KO Exciter
Sebastian Orth (GSI Helmholtz Centre for Heavy Ion Research)

MC4 - THP4099 Studies of slow extraction from SIS100 in the presence of magnet imperfections
Björn Gålnander (GSI Helmholtz Centre for Heavy Ion Research)

MC4 - THP4100 Commissioning of Helium Beams at CNAO
Stefano Marangoni (National Center for Oncological Hadrontherapy)

MC4 - THP4101 Optimising the proton and electron transfer lines design for high-quality electron acceleration in AWAKE Run 2c
Eleonora Belli (European Organization for Nuclear Research)

MC4 - THP4102 Exploring the Asymmetric Momentum Acceptance at the CERN Super Proton Synchrotron
Lise Pauwels (European Organization for Nuclear Research)

MC4 - THP4103 Modelling Beam Losses in CERN's Super Proton Synchrotron With Xsuite
Lise Pauwels (European Organization for Nuclear Research)

MC4 - THP4104 Collimator pre-series production for CERN's High Luminosity - Large Hadron Collider operation
Thibaut Parmentier (European Organization for Nuclear Research)

MC4 - THP4105 Mitigation of muon backgrounds at LHC forward-physics experiments through orbit bumps
André Donadon Servelle (European Organization for Nuclear Research)

MC4 - THP4106 High-Luminosity LHC collimation performance with machine errors and during fast failures
André Donadon Servelle (European Organization for Nuclear Research)

MC4 - THP4108 Towards a beam dump design for the HL-LHC: Analysis of Run 3 dumps and energy deposition studies on the HL-LHC TDE assembly
Helene Guerin (European Organization for Nuclear Research)

MC4 - THP4109 A Helium-Cooled Target Design at the SPS Beam Dump Facility (BDF) at CERN
Tristan Calvet (European Organization for Nuclear Research)

MC4 - THP4110 Towards the detailed design of the High Luminosity Large Hardon Collider Beam dumps
Thomas Banks (European Organization for Nuclear Research)

MC4 - THP4111 Application of Bayesian Optimization in Magnetic Horn Design
Paul Jurj (Imperial College London)

MC4 - THP4112 High Power Conditioning and First 2 MeV Beam Results of the Coupled RFQ-IH-DTL for FRANZ
Adem Ates (Goethe University Frankfurt)

MC4 - THP4113 Development and Characterization of a Neutron Beam at the Bonn Isochronous Cyclotron
Maximilian Loepke (University of Bonn)

MC4 - THP4114 Beam Dynamics of ARGITU-0: Benchmarking RF-Track Simulations of the LEBT, RFQ and MEBT
Konrad Altenmüller (ESS Bilbao)

MC4 - THP4115 Alternative Fabrication Process for Carbon Stripper Foils Used in Particle Accelerators
Pedro Costa Pinto (European Organization for Nuclear Research)

MC5 - THP5301 Simulation of Intrabeam Scattering with Nonlinear Damping and Diffusion in SciBmad
Joseph Devlin (Cornell University (CLASSE))

MC5 - THP5302 Differentiable, CPU-/GPU-Parallelized, Symplectic Spin-Orbit Tracking in SciBmad
Joseph Devlin (Cornell University (CLASSE))

MC5 - THP5303 Modeling and Correction of SIRIUS Storage Ring Nonlinear Optics
Matheus Velloso (Brazilian Synchrotron Light Laboratory)

MC5 - THP5305 Emittance measurements in the BTS transfer line at the Canadian Light Source
Chelsea-Lea Randall (Canadian Light Source (Canada))

MC5 - THP5306 Matching of Multiple Energy Beamlines for the CEBAF Energy Upgrade
Stephen Brooks (Brookhaven National Laboratory)

MC5 - THP5307 Data-driven reconstruction of accelerator lattice errors using three beam position monitors
Guimei Wang (Brookhaven National Laboratory)

MC5 - THP5309 Sensitivity, Second-order Effects, and Space Charge Limitations of a Deflecting Cavity Based Dechirper
Deeksha Sinha (Northern Illinois University)

MC5 - THP5310 Optimization of Beam Accumulator Ring Lattice Design for the Electron-Ion Collider Injector Complex
Ihar Lobach (Argonne National Laboratory)

MC5 - THP5311 Using Neural Networks to Construct Symplectic Transfer Maps for Realistic Field Model of NSLS-IIU Complex Bend Achromat Lattice
Ihar Lobach (Argonne National Laboratory)

MC5 - THP5312 Optimization of magnetic horn configuration for NuMI beam pion focusing system
Sydney Elkins (Illinois Institute of Technology)

MC5 - THP5313 CEBAF hall A beamline error sensitivity analysis
Bamunuvita Gamage (Thomas Jefferson National Accelerator Facility)

MC5 - THP5314 Universal Injector at LERF - Baseline Design
Salim Ogur (Thomas Jefferson National Accelerator Facility)

MC5 - THP5315 Beam Performance of the Positron Transport Line for CEBAF Positron Upgrade
Salim Ogur (Thomas Jefferson National Accelerator Facility)

MC5 - THP5316 Simulation and Analysis of High-Energy Beam Transport Lines at LANSCE
Clara-Marie Alvinerie (Los Alamos National Laboratory)

MC5 - THP5317 Upcoming experiment at the Argonne Wakefield Accelerator to actively control the energy chirp of an electron beam using three transverse deflecting cavities
Quinn Marksteiner (Los Alamos National Laboratory)

MC5 - THP5319 Beam-based alignment for sextupoles via parallel optimization
Xiaobiao Huang (SLAC National Accelerator Laboratory)

MC5 - THP5320 Symplectic integrator for insertion devices tracking at SIRIUS
Gabriel Ascenção (Brazilian Synchrotron Light Laboratory)

MC5 - THP5321 Improvement on particle tracking tool for accelerator simulations at LNLS
Ximenes Resende (Brazilian Synchrotron Light Laboratory)

MC5 - THP5322 Exact Solution of Dual Harmonic Motion
Shane Koscielniak (TRIUMF)

MC5 - THP5323 Sextupole reduction via chaos suppression at the National Synchrotron Light Source II
Yongjun Li (Brookhaven National Laboratory)

MC5 - THP5324 Nonlinear beam dynamics optimization for complex bend lattice using chaos indicator
Guimei Wang (Brookhaven National Laboratory)

MC5 - THP5325 SciBmad: A differentiable and high performance software library for particle accelerator design, nonlinear analysis, simulation, and machine learning
Matthew Signorelli (Cornell University (CLASSE))

MC5 - THP5326 Exact Symplectic Tracking of Wiggler Fields using Automatic Differentiation
Eiad Hamwi (Cornell University (CLASSE))

MC5 - THP5327 Studies of magnets misalignment in Ring-based Electron Cooler
Jonathan Unger (Cornell University (CLASSE))

MC5 - THP5328 Space Charge Dynamics in Ring-based Electron Cooler
Jonathan Unger (Cornell University (CLASSE))

MC5 - THP5329 Dynamic Aperture Optimization for the Ring-based Electron Cooler
Jonathan Unger (Cornell University (CLASSE))

MC5 - THP5330 Experimental beam dynamics measurements of nonlinear quasi-integrable lattices
Nikita Kuklev (Fermi National Accelerator Laboratory)

MC5 - THP5331 JACC: large scale code for multi-framework differentiable simulations
Nikita Kuklev (Fermi National Accelerator Laboratory)

MC5 - THP5332 Six-dimensional convergence map method for nonlinear beam dynamics analysis
Jinyu Wan (Facility for Rare Isotope Beams)

MC5 - THP5333 Multi-parameter mitigation of CSR-induced emittance growth in 3D beams
Xueying Lu (Northern Illinois University)

MC5 - THP5334 Fast 2-D Nodal-Based FEM Code of Axisymmetric RF Cavities
Eric Everett (Arizona State University)

MC5 - THP5335 Optimal Reconstruction of 3D Magnetic Fields for FACET-II Compton Spectrometer
Jack Phillips (Particle Beam Physics Lab (PBPL))

MC5 - THP5336 Simulation of the 805 MHz CCL at LANSCE
Joseph Bradley III (Los Alamos National Laboratory)

MC5 - THP5337 LCLS-II Gun FPC Window MP Analysis
Feng Zhou (SLAC National Accelerator Laboratory)

MC5 - THP5338 Modeling of Nonlinear and Time-Dependent Complex Materials in SLAC's Code ACE3P
Cho Ng (SLAC National Accelerator Laboratory)

MC5 - THP5339 Impedance Characterization of the APPLE-2 Undulator for SIRIUS' IPE Beamline
Iago Carvalho de Almeida (Brazilian Center for Research in Energy and Materials)

MC5 - THP5340 Longitudinal Impedance Measurements of RHIC Rings
Medani Sangroula (Brookhaven National Laboratory)

MC5 - THP5341 Progress with the Impedance Calculations for the Hadron Storage Ring of the Electron Ion Collider
Gang Wang (Brookhaven National Laboratory)

MC5 - THP5342 Impedance analysis for the NSLS-II low-emittance upgrade
Victor Smaluk (Brookhaven National Laboratory)

MC5 - THP5343 Semi-analytical Evaluation of 3D Microscopic Beam Instability
Nikhil Bachhawat (Stony Brook University)

MC5 - THP5344 Using Chromaticity to Suppress Instabilities at γ_t Transition
Michael Balcewicz (Fermi National Accelerator Laboratory)

MC5 - THP5345 Longitudinal Phase Space Bunch Rotation in the Fermilab Booster
Jean-Francois Ostiguy (Fermi National Accelerator Laboratory)

MC5 - THP5346 Physics-informed Neural Network for 3D Space Charge
Ningdong Wang (Cornell University)

MC5 - THP5347 Latent Space Beam Dynamics Surrogate Model
Ningdong Wang (Cornell University)

MC5 - THP5348 Space Charge Optimization of the EIC Low Energy Cooler
Ningdong Wang (Cornell University)

MC5 - THP5349 Modeling and Measuring the Effect of Mismatched Beam Transport on Halo Formation in a High-Intensity LINAC
Trent Thompson (Oak Ridge National Laboratory)

MC5 - THP5350 Search for Vlasov-Poisson equilibrium distributions using generative models
Austin Hoover (Oak Ridge National Laboratory)

MC5 - THP5351 Longitudinal bunch compression using RF modulation in the Particle Accumulator Ring at the Advanced Photon Source
Osama Mohsen (Argonne National Laboratory)

MC5 - THP5352 Loss reduction methods through longitudinal laser scraping techniques after a Radio-Frequency Quadrupole
Parker Landon (Boston University)

MC5 - THP5353 Preparations for Amplified Optical Stochastic Cooling at Fermilab
Jonathan Jarvis (Fermi National Accelerator Laboratory)

MC5 - THP5354 Analysis of Experimental Results Investigating Shielding for Coherent Synchrotron Radiation Mitigation
Xueying Lu (Northern Illinois University)

MC5 - THP5357 Single-pass beam-beam effect in Low Energy Cooler for EIC
Sergei Seletskiy (Brookhaven National Laboratory)

MC5 - THP5358 Differentiable Phase Space Map for the Beam-Beam Force
Evan Navar Root (Cornell University (CLASSE))

MC5 - THP5359 Analytic Calculation of Scattered Spectra in Classical and Quantum Models of Electron-Photon Interactions in Strong Plane-Wave Fields
Emerson Rogers (Old Dominion University)

MC5 - THP5360 A Flat-Pulse Analytic Framework for Modeling Inverse Compton Scattering and Ponderomotive Broadening
Elizabeth Breen (Old Dominion University)

MC5 - THP5361 Case studies with hed-melt, modeling high-energy-density conditions in accelerators
Jeffrey Dooling (Argonne National Laboratory)

MC5 - THP5362 A Level Set Based Immersed Boundary Method for Modeling Phase Transition Dynamics in High-Energy-Density Beam Simulations
Nathan Cook (RadiaSoft (United States))

MC5 - THP5363 An Efficient Symplectic Model for RF Cavities Including Transverse Focusing
David Sagan (Cornell University (CLASSE))

MC5 - THP5364 Accelerator optimizations using SciBmad with PyTorch
Chanpisey Ung (Cornell University)

MC5 - THP5365 Modeling Semiconductor Photocathode Optical Effects on Quantum Efficiency and Intrinsic Emittance
Dimitre Dimitrov (Los Alamos National Laboratory)

MC5 - THP5366 Los Alamos Accelerator Code Group (LAACG) Update
Leanne Duffy (Los Alamos National Laboratory)

MC5 - THP5367 Differentiable Solutions to the Stochastic Fokker-Planck Equation for Electron Storage Rings
Christian Ratcliff (Facility for Rare Isotope Beams)

MC5 - THP5369 Adjoint Sensitivity Analysis for Design and Optimization
Dan Abell (University of Maryland, College Park)

MC5 - THP5370 Study of Electron Cloud in the FCC-ee Combined Function Magnets
EDGAR JAIR VILLASENOR GONZALEZ (Universidad Autònoma de Sinaloa)

MC5 - THP5601 From Microscopy to High-Energy Frontiers: Accelerating Challenges and Beam Dynamics of Vortex Electron Beams
Junyi Chen (University of Science and Technology of China)

MC5 - THP5602 Analysis and Research on Measurement Errors Caused by Beam Misalignment in Energy Analysis Systems
Yan Wang (Huazhong University of Science and Technology)

MC5 - THP5603 Physical Design and Alignment Error Analysis of the Main Linac Section in the STCF Injector
Yan Wang (Huazhong University of Science and Technology)

MC5 - THP5604 Compact Aberration Corrector for Transverse Coupling Compensation in the HUST-UED
Changda Peng (Huazhong University of Science and Technology)

MC5 - THP5605 Closed Orbit Distortion and Realignment in the CSNS RCS
Yuwen An (Institute of High Energy Physics)

MC5 - THP5606 Investigation on half-integer resonance in the CSNS RCS
Yong Li (Dongguan Neutron Science Center)

MC5 - THP5607 A Novel Triple-Bend Lattice for an Ultra-Low Emittance Upgrade of HLS
Wanbin Li (University of Science and Technology of China)

MC5 - THP5608 Numerical Study of Radiation Damping Enhanced Unit Lattice Cell
Wanbin Li (University of Science and Technology of China)

MC5 - THP5609 Dynamic aperture optimization based on the convexity of third-order resonance driving term variations
Wanbin Li (University of Science and Technology of China)

MC5 - THP5610 Nonlinear Optics from Local Bump Response Matrices
Yuejing Huang (University of Science and Technology of China)

MC5 - THP5611 Lattice design to achieve reversible microbunching in a steady-state microbunching (SSMB) storage ring
Jingyuan Zhao (Tsinghua University)

MC5 - THP5612 Linac Optics Design for ERL with Space Charge Effects Using Modified Envelope Equations
Si Chen (Shanghai Synchrotron Radiation Facility)

MC5 - THP5614 nonlinear optimization of the HALF storage ring lattice
Yuejing Huang (University of Science and Technology of China)

MC5 - THP5615 A preliminary study of full-coupling operation for the HALF storage ring
Yuejing Huang (University of Science and Technology of China)

MC5 - THP5616 Simulation of the magnet error correction for the Super Tau-Charm Facility collider rings
Jingyu Tang (University of Science and Technology of China)

MC5 - THP5617 Multiparticle beam dynamics of ELEBT integrated with upgraded RFQ in LINAC4
Niketan Jakhar (Jawaharlal Nehru University)

MC5 - THP5618 The evaluation of third-order resonance strength for off-momentum particles in J-PARC main ring
Yulian Tan (High Energy Accelerator Research Organization)

MC5 - THP5619 Investigation of Plasma Optics Effect on Relativistic Electron Beam Phase-Space Dynamics via Relativistic Reference Frame PIC Simulations
Driss Oumbarek Espinos (High Energy Accelerator Research Organization)

MC5 - THP5620 Beamline Design and Diagnostics for Strong X-Y Coupled Beams Using a Rotating Quadrupole
Hiromi Iinuma (Ibaraki University)

MC5 - THP5621 Study on evaluation method for transient response of conductor surface to large pulse current
Hiromi Iinuma (Ibaraki University)

MC5 - THP5622 Injection Dynamics of the Korea-4GSR Storage Ring
Jaehyun Kim (Pohang Accelerator Laboratory)

MC5 - THP5623 Toward a robust TPS-II 6BA lattice
Nuan-Ya Huang (National Synchrotron Radiation Research Center)

MC5 - THP5624 Beam-Dynamics Impact of Undulators in the Taiwan Photon Source Storage Ring with Non-Zero Dispersion in Insertion Straights
Hao-Wen Luo (National Synchrotron Radiation Research Center)

MC5 - THP5625 Optics Characterization at TPS via TbT-BPM ICA and SVD Response-Matrix Correction
Hao-Wen Luo (National Synchrotron Radiation Research Center)

MC5 - THP5626 Beam Dynamics Studies of the SPS-II 3-GeV Booster Synchrotron Injected from a 270-MeV Linac
Taylor Yan (Synchrotron Light Research Institute)

MC5 - THP5627 Symplectic Integration for Storage Ring Based FEL in Genesis
Weihang Liu (Institute of High Energy Physics)

MC5 - THP5628 The Isochronous Lattice Design with Time-of-flight fluctuation Reaching Sub-attoseconds Based on High Order Achromat
Zhilong Pan (Tsinghua University)

MC5 - THP5629 Simulation study of beam dynamic in bimodal RF structure by RF_track
Dinghui Su (Shanghai Institute of Applied Physics)

MC5 - THP5630 Impact of Beam-Beam Effects on the Dynamic Aperture in the Super Tau-Charm Facility
Tao Liu (University of Science and Technology of China)

MC5 - THP5631 Analytic Phase-Space and Spectral Modeling of Amplitude-Dependent Resonance Island Dynamics Near the Third-Integer Resonance
Youngmin Park (Pohang University of Science and Technology)

MC5 - THP5632 Theoretical Assessment of Steady-State Microbunching (SSMB) for PAL-EUV
Youngmin Park (Pohang University of Science and Technology)

MC5 - THP5633 Optimizing Momentum Aperture in Korea-4GSR via Higher-Order Chromaticity and W-function Analyses
Junha Kim (Pohang Accelerator Laboratory)

MC5 - THP5634 Optimal Field Profile in Longitudinal-Gradient Superbend Magnets for the Hefei Advanced Light Source via Multi-Objective Optimization
Jincheng Xia (University of Science and Technology of China)

MC5 - THP5635 Code benchmarking of long-term storage of of high intensity bunched beam
Yaoshuo Yuan (Institute of High Energy Physics)

MC5 - THP5636 Benchmarking Impedance Calculations for Two Types of Transition Structures in HALF: CST vs. ECHO3D
Jincheng Xiao (University of Science and Technology of China)

MC5 - THP5637 Design and Implementation of a GPU-Accelerated Simulation Algorithm for Long-Range Resistive-Wall Instabilities
Jincheng Xiao (University of Science and Technology of China)

MC5 - THP5638 Experimental Design for Validating Relativistic Ponderomotive Dynamics via Laser Modulation of MeV Electron Beams
Jinming Zhang (University of Science and Technology of China)

MC5 - THP5639 Design Concept of Ceramic Chambers at the J-PARC RCS: An Analytical Perspective
Yoshihiro Shobuda (Japan Proton Accelerator Research Complex)

MC5 - THP5640 Cross-Talk Effect Between Adjacent Components in the HALF Storage Ring
Haiyan Yao (University of Science and Technology of China)

MC5 - THP5641 PSO-Based Extraction of Trapped-Mode Parameters from Long-range Wake Potentials
Haiyan Yao (University of Science and Technology of China)

MC5 - THP5642 Impedance studies on the electrostatic separators
Na Wang (University of Chinese Academy of Sciences)

MC5 - THP5643 Preliminary Impedance Modeling of the STCF Collimators
Zeyuan Meng (University of Science and Technology of China)

MC5 - THP5644 Preliminary Study on Electron Cloud Instability in the Super Tau-Charm Facility
Zeyuan Meng (University of Science and Technology of China)

MC5 - THP5645 Beam Coupling Impedance Modeling for the Hefei Advanced Light Facility
Tianlong He (University of Science and Technology of China)

MC5 - THP5646 Study on longitudinal coupled-bunch instabilities driven by high order modes in the HALF storage ring
Tianlong He (University of Science and Technology of China)

MC5 - THP5647 Study of Beam Coupling Impedance and Instabilities for the Super Tau-Charm Facility
Tianlong He (University of Science and Technology of China)

MC5 - THP5648 A Realistic Proportional-Integral RF Feedback Model for Longitudinal Beam Dynamics Simulation in Electron Storage Rings
Tianlong He (University of Science and Technology of China)

MC5 - THP5649 The impact of the longitudinal broadband impedance on stabilizing effects of chromaticity
Jintao Li (Chinese Academy of Sciences)

MC5 - THP5650 Simulation-Based Optimization of RF Cavity PI Controllers for Beam Stability in High-Current Storage Rings
Tianlong He (University of Science and Technology of China)

MC5 - THP5651 Study of Beam Dynamics with Harmonic Cavities for HLS-III
Jincheng Xiao (University of Science and Technology of China)

MC5 - THP5652 Impact of Radiation on the Energy Spread of Electron Beams in a Free Electron Laser
Weihong Huang (Tsinghua University)

MC5 - THP5653 Study of bursting threshold considering bunch length variation around the storage ring
Jihong Bian (Tsinghua University)

MC5 - THP5654 Longitudinal single-bunch instability driven by coherent undulator radiation in the laser modulator of a SSMB storage ring based on cavity mode decomposition
Yingjie Dai (Tsinghua University)

MC5 - THP5655 Picosecond bunch-centroid stabilization in SSMB storage rings via low-r/q harmonic cavities and gild-based feedforward compensation
Peizhi Fang (Tsinghua University)

MC5 - THP5656 Investigation and Modeling of Intra-beam Scattering Effects in Micro-Bunched Beams
Ao Liu (ShanghaiTech University)

MC5 - THP5657 Preliminary Analysis of Transient Beam-Loading Effects in Electron Storage Rings with a 3rd Harmonic Cavity
Keon Hee Kim (Grand Accélérateur National d'Ions Lourds)

MC5 - THP5658 Influence of bunch lengthening cavity on single-bunch instabilities in Korea-4GSR
Jimin Seok (Pohang Accelerator Laboratory)

MC5 - THP5659 Theoretical method for evaluating the space-charge effect in storage rings with extremely short bunches and small bunch spacing
Zihang Zhao (Institute of High Energy Physics)

MC5 - THP5660 Strcutured Particle Beam
Xiujie Deng (Tsinghua University)

MC5 - THP5661 Sub-40 fs temporal control of high-brightness 200 keV electron bunches with magnetic compression
Zhiyuan Wang (Tsinghua University)

MC5 - THP5662 Design of an Alpha-magnet-based High-repetition-rate Megaelectronvolt Ultrafast Electron Diffraction Beamline
Baiting Song (Tsinghua University)

MC5 - THP5663 Hollow Bunch Method for Improved Spot Dose Accuracy in 3D PBS Proton FLASH
Peizhi Fang (Tsinghua University)

MC5 - THP5664 Parameter Optimization of a Novel Emittance Compensation Scheme for the HALF Storage Ring
Zhouyu Zhao (University of Science and Technology of China)

MC5 - THP5665 Beam-Beam Simulations with Selected Multi-Physics Effects for STCF
Sangya Li (University of Science and Technology of China)

MC5 - THP5666 One Possible Approach for Intrabeam Scattering Calculation of Arbitrary Phase Space Distributions
Wenxuan Wu (Tsinghua University)

MC5 - THP5667 Preliminary study on the collective effects in the storage ring-based coherent light source
Yanxu Wang (University of Chinese Academy of Sciences)

MC5 - THP5668 Characterization of an Electron beam from 6.5-MeV Microtron for designing 2nd transport beamline in Microtron-based THz FEL system
Hee Jin Cho (Korea University)

MC5 - THP5669 Numerical Simulation of Multi-Generation Particle Motion and Secondary Electron Emission in VHF Electron Gun Cavity
Yitong Duan (Tsinghua University)

MC5 - THP5670 Design and Implementation of a Cavity Voltage Feedback Tracking Algorithm for Double RF Systems
Jincheng Xiao (University of Science and Technology of China)

MC5 - THP5671 Simulink model for the RF System Analysis in Vertical Test at IRIS
Juwan Kim (Institute for Basic Science)

MC5 - THP5672 Agentic AI for Start-End (S2E) simulations to estimate error tolerances of an MBA based 4th generation synchrotron light source
Yujong Kim (Korea Atomic Energy Research Institute)

MC5 - THP5673 Properties of trapped ions with the SCRIT method at the SCRIT electron scattering facility at RIKEN
Yuta Kikuchi (Saitama University)

MC5 - THP5674 Compensation of nonlinear resonances in HIAF-BRing with strong space charge effect
Lei Wang (Institute of Modern Physics, Chinese Academy of Sciences)

MC5 - THP5675 High-performance open-source beam dynamics simulation platform: PASS
Mingxuan Chang (Institute of Modern Physics, Chinese Academy of Sciences)

MC5 - THP5676 Beam modulation effect under the Influence of dual RF system
Tao Li (Institute of Modern Physics, Chinese Academy of Sciences)



Friday, May 22, 2026

Oral programme **319**

Only one author is identified in this document due to space constraints. The full and final version can be found in the conference application during the conference and in the proceedings afterwards.

Oral programme

FRI6M MC6 - Beam Instrumentation, Controls, Feedback & Operational Aspects (Invited)

May 22, 2026 **9:00 a.m. / 10:30 a.m.**

Chair: Marie-Helene Moscatello (GANIL)

FRI6M01 **9:00 a.m.**

From femtosecond to attosecond RF field control

Frank Ludwig (Deutsches Elektronen-Synchrotron DESY)

FRO6M MC6 - Beam Instrumentation, Controls, Feedback & Operational Aspects (Contributed)

May 22, 2026 **9:00 a.m. / 10:30 a.m.**

Chair: Marie-Helene Moscatello (GANIL)

FRO6M01 **9:30 a.m.**

Bridging the Gap Between Control Systems and Natural Language: A Framework for Semantic Channel Finding

Thorsten Hellert (Lawrence Berkeley National Laboratory)

FRO6M02 **9:50 a.m.**

Intelligent scientific facility R&D: AI/ML developments at SLAC MeV-UED

Fuhao Ji (SLAC National Accelerator Laboratory)

FRO6M03 **10:10 a.m.**

Progress in Data-Driven Beam Diagnostics within LIV.INNO

Carsten Welsch (University of Liverpool)

FRI5T MC5 - Beam Dynamics and Electromagnetic Fields (Invited)

May 22, 2026 **9:00 a.m. / 10:30 a.m.**

Chair: Seughwan Shin (Korea-U)

FRI5T01 **9:00 a.m.**

Beam dynamics in the SNS Linac and Beam Test Facility

Kiersten Ruisard (Oak Ridge National Laboratory)

FRO5T MC5 - Beam Dynamics and Electromagnetic Fields (Contributed)

May 22, 2026 **9:00 a.m. / 10:30 a.m.**

Chair: Seughwan Shin (Korea-U)

FRO5T01 **9:30 a.m.**
The detection of the fixed lines in four-dimensional phase space
Giuliano Franchetti (GSI Helmholtz Centre for Heavy Ion Research)

FRO5T02 **9:50 a.m.**
Approximate invariant analysis -- a new framework for nonlinear beam dynamics
Yongjun Li (Brookhaven National Laboratory)

FRO5T03 **10:10 a.m.**
Topology and non-linear matching: from KAM tori to beam profiles
Guido Sterbini (European Organization for Nuclear Research)

FRI3M MC3 - Novel Particle Sources and Acceleration Techniques (Invited)

May 22, 2026 **11:00 a.m. / 11:30 a.m.**

Chair: Rogelio Tomás García (CERN)

FRI3M01 **11:00 a.m.**
Review of inverse Compton scattering sources and research paths towards fundamental physics studies
Vittoria Petrillo (University of Milano-Bicocca)

FRI6M MC6 - Beam Instrumentation, Controls, Feedback & Operational Aspects (Invited)

May 22, 2026 **11:30 a.m. / 12:00 p.m.**

Chair: Rogelio Tomás García (CERN)

FRI6M02 **11:30 a.m.**
Machine learning for design and control of particle accelerators: A look backward and forward
Auralee Edelen (SLAC National Accelerator Laboratory)

FRI1M MC1 - Colliders and other Particle Physics Accelerators (Invited)

May 22, 2026 **12:00 p.m. / 12:30 p.m.**

Chair: Rogelio Tomás García (CERN)

FRI1M01 **12:00 p.m.**
The European research roadmap on concepts and technologies for accelerators
Mike Seidel (Paul Scherrer Institute)

Closing Remarks

Michel d'Ornano

May 22, 2026 **12:30 p.m. - 1:30 p.m**

Chair: Peter McIntosh (STFC)

IPAC 2026

17th International Particle Accelerator Conference

May 17 - 22

Deauville | Normandy | France

IPAC26



www.ipac26.org

contact : www.ipac26.org

The IPAC'26 app, available on both Apple and Android app stores, provides the most up-to-date information on the conference.

Download via App Store / Play Store

ANDROID APP ON Google Play

Available on the App Store

GANIL cea cnrs ESRF The European Synchrotron SOLEIL SYNCHROTRON

ACCELERATOR GROUP European Physical Society