



 ACCELERATOR GROUP
European Physical Society

IPAC23


14th International Particle
Accelerator Conference

IPAC
'23

7 - 12 May 2023
VENICE, ITALY

Hosting institutions



Elettra Sincrotrone Trieste



Istituto Nazionale di Fisica Nucleare





**Elias Métral
(CERN & JUAS)
and
Ezio Todesco
(CERN)**



**Closing of the
IPAC'23 students'
tutoring**

Please, remember to send us your feedbacks about the tutorials

- ◆ Overview of history and types of accelerators by Na Wang
- ◆ Physics of circular accelerators / colliders (including muon collider) by Eliana Gianfelice-Wendt
- ◆ Physics of linear accelerator / colliders by Louis Rinolfi
- ◆ Superconducting magnets for circular accelerators by Paolo Ferracin
- ◆ Superconducting RF cavities by Anne-Marie Valente-Feliciano
- ◆ Synchrotron Light Sources: how do they work? And what about Inverse Compton Scattering? by Ryutaro Nagaoka
- ◆ Free-Electron Lasers: how do they work? by Giovanni De Ninno
- ◆ Challenges of plasma cell-based accelerators by Enrica Chiadroni
- ◆ Facilities for Radioactive Ion Beams by Michele Comunian
- ◆ Accelerator based neutron sources by Ciprian Plostinar
- ◆ Accelerators for medical and industrial applications by Kazuya Osaki
- ◆ Organisation of the tutorials by Elias Métral and Ezio Todesco



	Sunday 7 May	Monday 8 May 2023	Tuesday 9 May 2023	Wednesday 10 May 2023	Thursday 11 May 2023	Friday 12 May 2023
8:30		Sala Darsena	Sala Grande	Sala Darsena	Sala Grande	Sala Darsena
9:00		Chair: Ralph Assmann (DESY)	Chair: Yoichi Sato (KEK)	Chair: Seunghwan Shin (POSTech)	Chair: Mark Boland (CLS)	Chair: Sandra Biedron (U New Mexico)
9:05		IPAC23 Opening Local/Political Address (Ibdi)	J-PARC Operation with the High Repetition Rate Upgrade Takashi Yusa (KEK)	Arbitrary Bunch Shaping via Wake Potential Tailoring Young Dae Yoon (PAL - ACPPT)	Towards a True Diffraction Limited Storage Ring Light Source Lina Hourani (ESRF)	Treatment of "Forever Chemicals" in Wastewater with Electron Beams John Vennikate (ODJ)
9:15		Welcome from INFN Antonio Zoccolì (INFN President)	Laser assisted dipole injection development at the SNS Timothy Gorlov (ORNL)	ALBA II Accelerator Upgrade Project Status - Francis Perez (ALBA-CELLS)	High-Beam Current Operation with a Digital Low-Level Radio Frequency System Fu-Yu Chang (NSRRC)	Towards the COXINEL Seeded FEL with a Laser Plasma Accelerator at HZDR Marc Emmanuelle Couprie (CELEA)
9:30		Welcome from Elettra Alfonso Franciosi (Elettra President)	Experimental Measurement of Quadrupole Beam Oscillating Frequency at SNS RCS Yue Yuan (HEP)	Green-oriented upgrade of accelerator complex at the Spring-8 campus - Hitoshi Tanaka (RIKEN Spring-8 Center)	RF system on a chip: A compact controller for SRF cavity field and detuning control Andriy Ushakov (Helmholtz-Zentrum Berlin für Materialien und Energie GmbH)	Asymmetric Effects in Shock Injection of Laser-Plasma Acceleration of Electrons Eitan Levine (Weizmann Institute of Science)
9:35		Practical Details from IOC Giovanni Bisoffi - Alessandro Fabris	New techniques for the LNL superconductive Linac ALPI beam dynamics simulations and commissioning - Luca Bellan (INFN)	Accelerator operation performance during the NSC KIPT SCA neutron source physical start up - Andriy Zelinsky (NSC, Ukraine)	Robotic Solutions for the Remote Inspection and Maintenance of Particle Accelerators - Mario Di Castro (CERN)	Timepix and Medipix Detectors and Their Applications Michael Campbell (CERN)
9:40		Performance with the Upgraded LHC Injectors Malika Meddahi (CERN)	Laser cooling taken to the extreme: cold relativistic intense beams of highly charged heavy ions - Danyal Winters (ESS)	On the commissioning of the laser-driven ion beamline ELIEM - Francesco Schillaci (ELI Beamlines)	FLASHForward: experimental progress towards an idealised plasma-based energy booster - Justus Benarafa (DESY)	Outlook to future XFELs Dong Wang (Shanghai Advanced Research Institute)
9:50			Experimental Measurement of Quadrupole Beam Oscillating Frequency at SNS RCS Yue Yuan (HEP)	Accelerator operation performance during the NSC KIPT SCA neutron source physical start up - Andriy Zelinsky (NSC, Ukraine)	Using P-Spice model for spark detection in TRIUMF's main cyclotron system - Ramona Leewe (TRIUMF)	Quantum Computing and Accelerator Technology Anna Grassellino (FNL)
10:00			Experimental Measurement of Quadrupole Beam Oscillating Frequency at SNS RCS Yue Yuan (HEP)	Accelerator operation performance during the NSC KIPT SCA neutron source physical start up - Andriy Zelinsky (NSC, Ukraine)	Using P-Spice model for spark detection in TRIUMF's main cyclotron system - Ramona Leewe (TRIUMF)	Commissioning and Operation of the SPIRAL2 SC Linac Angie DRUZU (GANIL)
10:10		Elettra2.0 - Italy's Lightsource for Science and Outreach Emanuel Karantzioulis (Elettra)	Experimental Measurement of Quadrupole Beam Oscillating Frequency at SNS RCS Yue Yuan (HEP)	Accelerator operation performance during the NSC KIPT SCA neutron source physical start up - Andriy Zelinsky (NSC, Ukraine)	Using P-Spice model for spark detection in TRIUMF's main cyclotron system - Ramona Leewe (TRIUMF)	Commissioning and Operation of the SPIRAL2 SC Linac Angie DRUZU (GANIL)
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14:00	Student POSTER Session Location: Exhibitor Area (14:00 - 18:00)	Sala Grande	Sala Darsena	Sala Grande	Sala Darsena	Sala Grande
14:30		Chair: Seunghwan Shin (POSTech)	Chair: Victor Malka (Weizmann IIS)	Chair: Christoph Quirmann	Chair: Sara Casabonni (EUFEL)	Chair: Oliver Boine-Frankenheim (ESS)
14:40		Electron Beam Test Facilities for Novel Applications Deepa Angal-Kalinin (STFC)	Laser-Plasma Acceleration beyond the Diffraction and Dephasing Limits Cedric Thuery (LOA CNRS)	Handshake between European laboratories and industries for particle accelerator development - Caterina Bisari (ALBA-CELLS Synchrotron)	Light Sources Marco Calvi (PSI)	Accelerator Physics Challenges for EIC Vadim Pritsyn (BNL)
14:50						
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18:00	Welcome Reception (until)	POSTERS (16:30 - 18:30)	POSTERS (16:30 - 18:30)	POSTERS (16:30 - 18:30)	POSTERS (16:30 - 18:30)	POSTERS (16:30 - 18:30)
		Conference Cocktail Reception (19:00 - 22:00)	Conference Cocktail Reception (19:00 - 22:00)	Conference Cocktail Reception (19:00 - 22:00)	Conference Cocktail Reception (19:00 - 22:00)	Conference Cocktail Reception (19:00 - 22:00)

Last Updated 2023/03/21



E. Métral, Student Tutorials, 06-07/05/2023



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9:05		IPAC23 Opening Local/Political Address (10d)	J-PARC Operation with the High Repetition Rate Upgrade	Arbitrary Bunch Shaping via Wake Potential Tapering	Towards a True Diffraction Limited Storage Ring Light Source	Treatment of "Forever Chemicals" in Wastewater with Electron Beams
9:15		Welcome from INFN Antonio Zoccolì (INFN President)	Takashi Yusa (KEK)	Young Dae Yoon (PAL - ACTP)	Lina Hamm (ESRF)	John Vennikate (ODJ)
9:30		Welcome from Elettra Alfonso Franciosi (Elettra President)	Laser assisted dipole injection development at the SNS	ALBA 10 Accelerator Upgrade Project Status	ALBA 10 Accelerator Upgrade Project Status	High-Beam Current Operation with a Digital Low-Level Radio Frequency System
9:35		Practical Details from IOC Giovanni Bisioffi - Alessandro Fabris	Timoley Gorlov (ORNL)	Andriy Ushakov (RIKEN Spring-8)	Andriy Ushakov (RIKEN Spring-8)	Physics of StarWars Carsten Welsch (University of Liverpool)
9:40		Performance with the Upgraded LHC Injectors Malika Meddahi (CERN)	Laser cooling taken to the extreme: cold relativistic intense beams of highly-charged heavy ions - Danyal Winters (ESS)	Experimental confirmation of the impedance reduction campaign in the CERN SPS - Giulia Papotti (CERN)	Status of SIRIUS Operation with Users - Lin Liu (Brazilian Synchrotron Light Laboratory)	Towards the COXINEL Seeded FEL with a Laser Plasma Accelerator at HZDR
9:50						Prospects for Future Facilities Based on Energy Recovery Linacs
10:00						Coherence in High Gain FELs: From Electron Intra-beam Scattering to Quantum Effects
10:10		Elettra2.0 - Italy's Lightsource for Science and Outreach Emanuel Karantzoulis (Elettra)	Experimental Measurement of Quadrupole Beam Oscillating Frequency at SNS RCS	New techniques for the LNL superconducting ALPI beam dynamics simulations and commissioning - Luca Bellan (INFN)	Green-oriented upgrade of accelerator complex at the Spring-8 campus - Hitoshi Tanaka (RIKEN Spring-8 Center)	Acceleration of electrons from a linear accelerator by a laser driven plasma wave at CLARA - Lewis Reid (Cockcroft Institute)
10:20						
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10:40		Coffee/Tea	Coffee / Tea	Coffee / Tea	Coffee / Tea	Coffee / Tea
11:00						
11:10		Chair: James Clarke (STFC)	Overall Status of the HL-LHC Project	The IFMIF-DONES Facility: A Fusion Oriented 5 MW Superconducting CW Linear Accelerator	Two-Dimensional Electron Beam Size Measurements with X-ray Heterodyne Near Field Spectroscopy	SRF Cavities for Crabbing at the Electron-Positron Collider
11:20		LCLS-II Commissioning Results Axel Brachmann (SLAC)	Recent progress of SuperKEKB project and future prospect - Yukiyoshi Ohnishi (KEK)	Alexander Zholents (ANL)	Ivan Poddeara (JONNES)	Mirko Siano (University of Milan)
11:30						
11:40		LIPAC (Linear IFMIF Prototype Accelerator) beam commissioning & future plans Kazuo Hasegawa (IFMIF)	Dielectric Laser Acceleration for Dark Sector Studies - Ruzbeh Dadashi Madsagh (PSI)	The beam commissioning of 10mA, 100 MW CW proton beam at cafe - Zhijun Wang (IMP)	5D Phase-Space Reconstruction of an Electron Beam - Sonja Jattar-Mers (DESY, University of Hamburg)	Beam Tomography with Coupling Using Maximum Entropy Technique - Anthony Tran (FRIIB)
11:50						
12:00						
12:10		R&D in Super-conducting RF: Thin film capabilities as a Game Changer for Future Sustainability Claire Antoine (CEA)	Spin Transparency Experiment Test in RHIC - Hsin Huang (BNL)	First Demonstration of Spin-Polarized Electrons From Gallium Nitride Photocathodes - Samuel Leveson (Cornell U)	Implementation status of MYRRHA phase 1 (MINERVA) - Ulrich Dorda (Belgian Nuclear Research Centre)	Understanding the Beam Quality Requirement for a High Energy Electron Microscopy - Yan Wang (Tsinghua U)
12:20						
12:30		LUNCH (12:40 - 14:30)	LUNCH (12:30 - 14:30)	LUNCH (12:30 - 14:30)	LUNCH (12:30 - 14:30)	LUNCH (12:30 - 14:30)
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14:00		Student POSTER Session Location: Exhibition Area (14:00 - 18:00)	Sala Grande	Sala Darsena	Sala Grande	Sala Darsena
14:30		Chair: Seunghwan Shin (PostTech)	Chair: Victor Malka (Weizmann IIS)	Chair: Christoph Quinman	Chair: Sara Casaboini (Euf-XFEL)	Chair: Olve Boine-Frankenheim (ESS)
14:50		Electron Beam Test Facilities for Novel Applications Deepa Angal-Kalinin (STFC)	Laser-Plasma Acceleration beyond the Diffraction and Dephasing Limits Cedric Thuery (LOA CNRS)	Handshake between European laboratories and industries for particle accelerator development - Caterina Biscafi (ALBA-CELLS Synchrotron)	Light Sources Marco Calvi (PSI)	Accelerator Physics Challenges for EIC Vadim Pitsyn (BNL)
14:55						
15:00		Predicting Collective Dynamics and Instabilities in Storage Ring Light Sources Ryan Lindberg (ANL)	EUPRAXIA and its Italian Construction Project Massimo Ferrario (INFN)	An Introduction to Future accelerator based projects and the technological trends in Asia/Australia - Jie Gao (Chinese Academy of Sciences)	Towards the Sub-angstrom Regime at EuXFEL: Simulations and First Experimental Results Frank Benker (DESY)	The Cool Copper Collider (C3) Concept for a Higgs Factory Emilio Nanni (SLAC)
15:10						
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15:30		Chair: Georg Hoffstaetter (Cornell&BNL)	Chair: Adriana Rossi (CERN)	Chair: Maurizio Vretenar (Industry Session)	Chair: Ubaido Inso (ALBA)	Chair: Jie Gao (IHEP)
15:40		X-band Activities at INFN-INF - Y. Capolbi (INFN)	Time-drift aware RF Optimization with Machine Learning Techniques - Ralitsa Sharankova (FNAL)	From CERN to industrial applications: MgB2 high temperature superconductors wire technology for energy transmission - Davide Malacita (ASG Superconductors)	Megaelectron-Volt Ultrafast Electron Microscope - The Future of Electron Imaging - Xijie Wang (SLAC)	The need for Nb3Sn coated Cu RF Cavities for Future Accelerators - Emanuela Barzi (FNAL)
15:50						
16:00		An Experimental Setup for PINN/PINN Analysis in a Medical Cyclotron at TENMAK-NUKEN - Serdar Bulut (Turkish Energy, Nuclear and Mineral Research Agency)	Intelligent Online Optimization in X-ray Free-Electron Lasers - Zhan Zhu (Shanghai Institute of Applied Physics)	How and why setting up a company in Europe working on the particles accelerator field - Carsten Welsch (The University of Liverpool)	Fabrication, Conditioning, Installation and Commissioning with the Beam of the First High Gradient (HG) Module for the FERMI Linac Upgrade - Nuaman Shaqat (Elettra)	An Experimental Study of X-Y Emittance Repartitioning in KEX-STF - Zachary Luptak (Hiroshima University)
16:10						
16:20		Additive manufacturing of copper RF structures for particle accelerator applications - Kip Bishoffberger (ANL)	Efficient Tuning of Particle Accelerator Emittance via Bayesian Algorithm Execution and Virtual Objectives - Ryan Rousset (SLAC)	Innovation partnership for the industrialization and production of the BPM electronics - Manuel Cargnelli (Instrumentation Technologies)	User delivery experience of Hard X-ray Seeding at the European XFEL - Gianluca Geloni (European XFEL GmbH)	PERLE: A novel facility for ERL development and applications in multi-turn configuration and high-power regime - Walid Kaabi (ULCB)
16:30						
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18:30		Welcome Reception (until)	Coffee / Tea	Coffee / Tea	Coffee / Tea	Coffee / Tea

MC01 - Colliders and other Particle Physics Accelerators
MC02 - Photon Sources and Electron Accelerators
MC03 - Novel Particle Sources and Acceleration Techniques
MC04 - Hadron Accelerators
MC05 - Beam Dynamics and Electromagnetic Fields
MC06 - Beam Instrumentation, Controls, Feedback & Operational Aspects
MC07 - Accelerator Technology and Sustainability
MC08 - Applications of Accelerators, Technology Transfer and Industrial Relations and Outreach
MC09 - Engagement with Industry, Knowledge Exchange and Industrial Relations
Opening, Closing and Special Presentations
Plenaries
Prizes



Sunday 07/05/23

14:00	Student POSTER Session Location: Exhibition Area (14:00 - 18:00)
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18:30	Welcome Reception (until

Chair: Ralph Assmann (DESY)
IPAC23 Opening
Local/Political Address (tbd)
Welcome from INFN Antonio Zoccoli (INFN President)
Welcome from Elettra Alfonso Franciosi (Elettra President)
Practical Details from LOC Giovanni Bisoffi - Alessandro Fabris
Performance with the Upgraded LHC Injectors Malika Meddahi (CERN)
Elettra2.0 – Italy's Lightsource for Science and Outreach Emanuel Karantzoulis (Elettra)
Coffee/Tea
Chair: James Clarke (STFC)
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LIPAc (Linear IFMIF Prototype Accelerator) beam commissioning & future plans Kazuo Hasegawa (IFMIF)
R&D in Super-conducting RF: Thin film capabilities as a Game Changer for Future Sustainability Claire Antoine (CEA)

Chair: Seunghwan Shin (PosTech)	Chair: Victor Malka (Weizmann IoS)
Electron Beam Test Facilities for Novel Applications Deepa Angal-Kalinin (STFC)	Laser-Plasma Acceleration beyond the Diffraction and Dephasing Limits Cedric Thauray (LOA CNRS)
Predicting Collective Dynamics and Instabilities in Storage Ring Light Sources Ryan Lindberg (ANL)	EuPRAXIA and its Italian Construction Project Massimo Ferrario (INFN)
Chair: Georg Hoffstaetter (Cornell&BNL)	Chair: Adriana Rossi (CERN)
X-band Activities at INFN-LNF - F.Cardelli (INFN)	Time-drift aware RF Optimization with Machine Learning Techniques - Ralitsa Sharankova (FNAL)
An Experimental Setup for PIXE/PIGE Analysis in a Medical Cyclotron at TENMAK-NUKEN - Serdar Bulut (Turkish Energy, Nuclear and Mineral Research Agency)	Intelligent Online Optimization in X-ray Free-Electron Lasers - Zihan Zhu (Shanghai Institute of Applied Physics)
Additive manufacturing of copper RF structures for particle accelerator applications - Kip Bishofberger (LANL)	Efficient Tuning of Particle Accelerator Emittance via Bayesian Algorithm Execution and Virtual Objectives - Ryan Roussel (SLAC)
Coffee / Tea	
POSTERS (16:30 - 18:30)	

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Tuesday 09/05/23

Chair: Yoichi Sato (KEK)	Chair: Seunghwan Shin (PosTech)
J-PARC Operation with the High Repetition Rate Upgrade Takaaki Yasui (KEK)	Arbitrary Bunch Shaping via Wake Potential Tailoring Young Dae Yoon (PAL - APCTP)
Laser assisted stripping injection development at the SNS Timofey Gorlov (ORNL)	A Novel Method to Suppress the Emittance Variation in Extremely Low Emittance Light Source Storage Rings - Kouichi Soutome (RIKEN SPring-8)
Laser cooling taken to the extreme: cold relativistic intense beams of highly-charged heavy ions - Danyal Winters (GSI)	Experimental confirmation of the impedance reduction campaign in the CERN SPS, Giulia Papotti (CERN)
Experimental Measurement of Quadrupole Beam Oscillating Frequency at CSNS RCS Yue Yuan (IHEP)	New techniques for the LNL superconductive Linac ALPI beam dynamics simulations and commissioning - Luca Bellan (INFN)
Coffee / Tea	
Chair: Oliver Boine-Frankenheim (GSI)	Chair: Evgenya Simakov (LANL)
Overall Status of the HL-LHC Project Oliver Brüning (CERN)	Fabrication and Testing of Corrugated Waveguides for a Collinear Wakefield Accelerator Alexander Zholents (ANL)
Recent progress of SuperKEKB project and future prospect - Yuki Yoshi Ohnishi (KEK)	Recent Experimental Results from the Dielectric Wakefield Acceleration Program at CLARA Facility - Thomas Pacey (STFC)
SUSTAINABILITY STUDIES FOR FUTURE LINEAR COLLIDERS Maxim Titov (CEA)	Dielectric Laser Acceleration for Dark Sector Studies - Raziye Dadashi Motlagh (PSI)
Spin Transparency Experiment Test in RHIC - Haixin Huang (BNL)	First Demonstration of Spin-Polarized Electrons from Gallium Nitride Photocathodes - Samuel Levenson (Cornell U)

Chair: Christoph Quitmann	Chair: Sara Casabluoni (Eu-XFEL)
Industry Session Handshake between European laboratories and industries for particle accelerator development - Caterina Biscari (ALBA-CELLS Synchrotron)	Superconducting Undulators for Future Light Sources Marco Calvi (PSI)
An introduction to future accelerator based projects and the technological trends in Asia/Australia - Jie Gao (Chinese Academy of Sciences)	Towards the Sub-Ångström Regime at EuXFEL: Simulations and First Experimental Results Frank Brinker (DESY)
Present and future accelerator developments in America and their industrial needs - Fulvia Pilat (Oak Ridge National Laboratory)	
Chair: Maurizio Vretenar	Chair: Ubaldo Iriso (ALBA)
Industry Session From CERN to industrial applications: MgB2 high temperature superconductors wire technology for energy transmission - Davide Malacalza (ASG Superconductors)	Megaelectron-Volt Ultrafast Electron Microscope – The Future of Electron Imaging - Xijie Wang (SLAC)
How and why setting up a company in Europe working on the particles accelerator field - Carsten Welsch (The University of Liverpool)	Fabrication, Conditioning, Installation and Commissioning with the Beam of the First High Gradient (HG) Module for the FERMI Linac Upgrade - Nuaman Shafqat (Elettra)
Going global: from a spin-off company to a mature successful business. Challenges and critical success factors - Raffaella Geometrante (Kyma S.p.A.)	
Innovation partnership for the industrialization and production of the BPM electronics - Manuel Cargnelutti (Instrumentation Technologies)	User delivery experience of Hard X-ray Self-seeding at the European XFEL - Gianluca Geloni (European XFEL GmbH)
Collaboration between institutes and Thales: presentation of a successful technology transfer case study - Rodolphe Marchesin (Thales Electron Devices)	
Coffee / Tea	
POSTERS (16:30 - 18:30)	
Conference Cocktail Reception (19:00 - 22:00)	

MC01 - Colliders and other Particle Physics Accelerators
MC02 - Photon Sources and Electron Accelerators
MC03 - Novel Particle Sources and Acceleration Techniques
MC04 - Hadron Accelerators
MC05 - Beam Dynamics and Electromagnetic Fields
MC06 - Beam Instrumentation, Controls, Feedback & Operational Aspects
MC07 - Accelerator Technology and Sustainability
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Opening, Closing and Special Presentations
Plenaries
Prizes

Chair: Mark Boland (CLS)	Chair: Sandra Biedron (U New Mexico)
Towards a True Diffraction Limited Storage Ring Light Source Lina Hoummi (ESRF)	Treatment of "Forever Chemicals" in Wastewater with Electron Beams John Vennekate (ODU)
ALBA II Accelerator Upgrade Project Status - Francis Perez (ALBA-CELLS)	Challenging students into developing accelerator-based innovations to protect the environment - Phil Burrows (University Oxford)
Status of SIRIUS Operation with Users - Lin Liu (Brazilian Synchrotron Light Laboratory)	On the commissioning of the laser-driven ion beamline ELIMED - Francesco Schillaci (ELI Beamlines)
Green-oriented upgrade of accelerator complex at the SPring-8 campus - Hitoshi Tanaka (RIKEN SPring-8 Center)	Accelerator operation performance during the NSC KIPT SCA neutron source physical start up - Andrey Zelinsky (NSC, Ukraine)
Coffee / Tea	
Chair: Mamad Eshraqi (ESS)	Chair: Adriana Rossi (CERN)
The IFMIF-DONES Facility: A Fusion-Oriented 5 MW Superconducting CW Linear Accelerator Ivan Podadera (DONES)	Two-Dimensional Electron Beam Size Measurements with X-ray Heterodyne Near Field Speckles Mirko Siano (University of Milan)
Status and Plan of the ESS Proton Linac Beam Commissioning Ryoichi Miyamoto (ESS)	Upgraded Universal Frequency Divider Module For The New FLASH2020+ RF Reference Generation System - Maciej Urbanski (Warsaw University of Technology)
The beam commissioning of 10mA, 100 kW CW proton beam at café Zhijun Wang (IMP)	5D Phase-Space Reconstruction of an Electron Beam - Sonja Jaster-Merz (DESY, University of Hamburg)
Implementation status of MYRRHA phase 1 (MINERVA) - Ulrich Dorda (Belgian Nuclear Research Centre)	Understanding the Beam Quality Requirement for a High Energy Electron Microscopy - Yian Wang (Tsinghua U)

Chair: Oliver Boine-Franckenheim (GSI)	Chair: Ezio Todesco (CERN)
Accelerator Physics Challenges for EIC Vadim Ptitsyn (BNL)	Recent Progress in High Temperature Superconductor Magnet Technology Seungyong Hahn (Seoul National University)
The Cool Copper Collider (C3) Concept for a Higgs Factory Emilio Nanni (SLAC)	The Short Model Program of Nb3Sn Quadrupoles for the HiLumi LHC and its Potential Paolo Ferracin (LBNL)
Chair: Jie Gao (IHEP)	Chair: Georg Hoffstaetter (Cornell&BNL)
The need for Nb3Sn coated Cu RF Cavities for Future Accelerators - Emanuela Barzi (FNAL)	A short-length transport line for laser plasma accelerators using HTS periodic magnets - Samira Fatehi (KIT)
An Experimental Study of X-Y Emittance Repartitioning in KEK-STF - Zachary Liptak (Hiroshima University)	Novel Iron Lamination for fast kicker magnets with high flux density - Kenji Fukami (JASRI)
PERLE: A novel facility for ERL development and applications in multi-turn configuration and high-power regime - Walid Kaabi (IJCLab)	High-power tests of the compactly HOM-damped TM020-cavities for a next generation light source - Takahiro Inagaki (Spring-8)
Coffee / Tea	
POSTERS (16:30 - 18:30)	
Equal Opportunity Session (18:30 - 19:30)	

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Physics of StarWars Carsten Welsch (University of Liverpool)	
Chair: Jui-Che Huang (NSRRC)	Chair: Edda Gschwendtner (CERN)
High-Beam Current Operation with a Digital Low-Level Radio Frequency System Fu-Yu Chang (NSRRC)	Towards the COXINEL Seeded FEL with a Laser Plasma Accelerator at HZDR Marie Emmanuelle Couprie (SOLEIL)
RF system on a chip: A compact controller for SRF cavity field and detuning control - Andriy Ushakov (Helmholtz-Zentrum Berlin für Materialien und Energie GmbH)	Asymmetric Effects in Shock-Injection of Laser-Plasma Acceleration of Electrons - Eitan Levine (Weizmann Institute of Science)
Robotic Solutions for the Remote Inspection and Maintenance of Particle Accelerators - Mario Di Castro (CERN)	FLASHForward: experimental progress towards an idealised plasma-based energy booster - Judita Beinortaite (DESY)
Using P-Spice model for spark detection in TRIUMF's main cyclotron system - Ramona Leewe (TRIUMF)	Acceleration of electrons from a linear accelerator by a laser driven plasma wave at CLARA - Lewis Reid (Cockcroft Institute)
Coffee / Tea	
Chair: Rogelio Tomas Garcia (CERN)	Chair: M-H.Moscatello (Ganil)
SRF Cavities for Crabbing at the Electron-Ion Collider Subashini Da Silva (ODU)	FAIR completion of construction works, towards commissioning and first science Jörg Blaurock (GSI)
Beam dynamics optimization for high gradient beam driven plasma wakefield acceleration at SPARC-LAB - Martina Carillo (Sapienza University of Rome)	Commissioning of a 1.6 m long 16mm period Superconducting Undulator at the Australian Synchrotron - Yaw-Ren Tan (ANSTO)
Beam Tomography with Coupling Using Maximum Entropy Technique - Anthony Tran (FRIB)	Overview and status of ESS RF systems - Morten Jensen (ESS)
A Study on Differentiable Space Charge Model Based on the Green's Function Solver - Chong Shik Park (Korea University Sejong Campus)	Sustainability in storage rings based light sources - Jean-Luc Revol (ESRF)

Chair: Mike Seidel (PSI)
Prize Session (4x20')
Rolf Wideröe Prize Katsunobu Oide
Gersh Budker Prize Mikhail Krasilnikov
Frank Sacherer Prize Xingchen Xu
Bruno Touschek Prize
Entertainment Session
Coffee / Tea
POSTERS (16:30 - 18:30)
Conference Banquet (19:30 - 00:00)

Thursday 11/05/23

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Friday 12/05/23

Chair: Jie Gao, IHEP	Chair: Auralee Edelen, SLAC
Prospects for Future Facilities Based on Energy Recovery Linacs Peter Williams (STFC)	Coherence in High Gain FELs: From Electron Intra-beam Scattering to Quantum Effects Giovanni Perosa (Univ. Trieste)
Timepix and Medipix Detectors and Their Applications Michael Campbell (CERN)	Outlook to future XFELs Dong Wang (Shanghai Advanced Research Institute)
Quantum Computing and Accelerator Technology Anna Grassellino (FNAL)	Commissioning and Operation of the SPIRAL2 SC Linac Angie ORDUZ (GANIL)
Coffee / Tea	
Sala Grande Chair: Peter McIntosh (STFC)	
European Collaboration for the Realization of ESS Andrea Pisent (INFN)	
Accelerator Driven Systems - A Solution to Multiple Problems of Society Yuan He (IMP Lanzhou)	
Accelerators for Particle Physics Beate Heinemann (DESY)	
IPAC23 SPC Chair Closing Remarks on Program Peter McIntosh (STFC)	
IPAC24 Presentation Fulvia Pilat (ORNL)	
IPAC23 Closing and Thanks Ralph Assmann (DESY)	
ADJOURN - End of IPAC23	

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- ✦ It might be useful for you to look at the abstracts booklet to select the posters you would like to look at, as there will be a lot (2153 abstracts submitted)

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✦ Networking

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✦ Asking questions at posters

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- ◆ Networking
 - ✦ Asking questions at posters
 - ✦ Asking questions during/after talks

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- ◆ Any comment from your side?

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- ◆ Any comment from your side?
- ◆ **We wish you all a great IPAC'23 conference!**