





14th International Particle Accelerator Conference

IPAC '23

7 - 12 May 2023 VENICE, ITALY







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 Metral and Ezio Todesco



	Sunday 7 May	Monday	B May 2023	Tuesday 9 May 2023 Wednesday 10 May 2023 Thursday 11 May 2023		Friday 12 May 2023					
	Sala Darsena		Sala Grande	Sala Darsena	Sala Grande	Sala Darsena	Sala Grande	Sala Darsena	Sala Grande	Sala Darsena	
8:30								Physics o Carsten Welsch (Ur			
9:00		Chair: Ralph Assmann (DESY)		Chair: Yoichi Sato (KEK)	Chair: Seunghwan Shin (PosTech)	Chair: Mark Boland (CLS)	Chair: Sandra Biedron (U New Mexico)	Carsten Weisch (Un Chair: Jui-Che Huang (NSRRC)	Chair: Edda Gschwendtner (CERN)	Chair: Jie Gao, IHEP	Chair: Auralee Edelen, SLAC
				J-PARC Operation with the High Repetition		Towards a True Diffraction Limited Storage	Treatment of "Forever Chemicals" in	High-Beam Current Operation with a Digital	Towards the COXINEL Seeded FEL with a	Prospects for Future Facilities Based on	Coherence in High Gain FELs: From Electron
9:05		IPAC23 Local/Politica	Opening I Address (tbd)	J-PARC Operation with the High Repetition Rate Upgrade	Arbitrary Bunch Shaping via Wake Potential Tailoring	Ring Light Source	Wastewater with Electron Beams	High-Beam Current Operation with a Digital Low-Level Radio Frequency System	Laser Plasma Accelerator at HZDR	Prospects for Future Facilities Based on Energy Recovery Linacs	Intrabeam Scattering to Quantum Effects
9:15		Welcome	from INFN	Takaaki Yasui (KEK)	Young Dae Yoon (PAL - APCTP)	Lina Hoummi (ESRF)	John Vennekate (ODU)	Fu-Yu Chang (NSRRC)	Marie Emmanuelle Couprie (SOLEIL)	Peter Williams (STFC)	Giovanni Perosa (Univ. Trieste)
		Antonio Zoccoli	(INFN President)								
9:30			from Elettra	Laser assisted stripping injection	A Novel Method to Suppress the Emittance Variation in Extremely Low Emittance Light	ALBA II Accelerator Upgrade Project Status	Challenging students into developing	RF system on a chip: A compact controller for SRF cavity field and detuning control -	Asymmetric Effects in Shock-Injection of	Timepix and Medipix Detectors and Their	Outlook to future XFELs
0.25			(Elettra President)	development at the SNS Timofey Gorlov (ORNL)	Variation in Extremely Low Emittance Light Source Storage Rings - Kouichi Soutome	- Francis Perez (ALBA-CELLS)	accelerator-based innovations to protect the environment - Phil Burrows (University	for SRF cavity field and detuning control - Andriy Ushakov (Helmholtz-Zentrum Berlin	Laser-Plasma Acceleration of Electrons - Eitan Levine (Weizmann Institute of Science)	Applications Michael Campbell (CERN)	Dong Wang (Shanghai Advanced Research Institute)
9:35		Giovanni Bisoffi	tails from LOC Alessandro Fabris	,,	(RIKEN SPring-8)		Oxford)	für Materialien und Energie GmbH)	,	,	
9:40		Performance with the	Upgraded LHC Injectors								
		Malika Me	ddahi (CERN)								
9:50				Laser cooling taken to the extreme: cold relativistic intense beams of highly-charged	Experimental confirmation of the	Status of SIRIUS Operation with Users - Lin Liu (Brazilian Synchrotron Light Laboratory)	On the commissioning of the laser-driven	Robotic Solutions for the Remote Inspection and Maintenance of Particle	FLASHForward: experimental progress towards an idealised plasma-based energy		
				heavy ions - Danyal Winters (GSI)	impedance reduction campaign in the CERN SPS, Giulia Papotti (CERN)	Liu (Brazilian Synchrotron Light Laboratory)	(ELI Beamlines)	Accelerators - Mario Di Castro (CERN)	booster - Judita Beinortaite (DESY)		
10:00										Quantum Computing and Accelerator	Commissioning and Operation of the
										Technology Anna Grassellino (FNAL)	SPIRAL2 SC Linac Angie ORDUZ (GANIL)
										,	
10:10			rce for Science and Outreach	Experimental Measurement of Quadrupole	New techniques for the LNL	Green-oriented upgrade of accelerator	Accelerator operation performance during	Using P-Spice model for spark detection in	Acceleration of electrons from a linear		
10:20		Emanuel Karar	ntzoulis (Elettra)	Beam Oscillating Frequency at CSNS RCS Yue Yuan (IHEP)	superconductive Linac ALPI beam dynamics simulations and commissioning - Luca Bellan	complex at the SPring-8 campus - Hitoshi Tanaka (RIKEN SPring-8 Center)	the NSC KIPT SCA neutron source physical start up - Andrey Zelinsky (NSC, Ukraine)	TRIUMF's main cyclotron system - Ramona Leewe (TRIUMF)	accelerator by a laser driven plasma wave at CLARA - Lewis Reid (Cockcroft Institute)		
					(INFN)						
10:25				- "	e / Tea	- "	r/Tea	- "	e / Tea		e / Tea
10:30 10:40		Coffe	ee/Tea						c/ ica		c / ica
10:40 11:00				Chair: Oliver Boine-Frankenheim (GSI)	Chair: Evgenya Simakov (LANL)	Chair: Mamad Eshraqi (ESS)	Chair: Adriana Rossi (CERN)	Chair: Rogelio Tomas Garcia (CERN)	Chair: M-H.Moscatello (Ganil)	Sala Grande Chair: Peter McIntosh (STFC)	
11:10		Chair: James Clarke (STFC)		Overall Status of the HL-LHC Project	Fabrication and Testing of Corrugated	The IFMIF-DONES Facility: A Fusion-	Two-Dimensional Electron Beam Size	SRF Cavities for Crabbing at the Electron-Ion	FAIR completion of construction works,	European Collaboration	for the Realization of ESS
11:20		LCLS-II Commi	ssioning Results	Oliver Brüning (CERN)	Waveguides for a Collinear Wakefield	Oriented 5 MW Superconducting CW Linear	Measurements with X-ray Heterodyne Near	Collider	towards commissioning and first science		sent (INFN)
		Axel Brach	mann (SLAC)		Accelerator Alexander Zholents (ANL)	Accelerator Ivan Podadera (DONES)	Field Speckles Mirko Siano (University of Milan)	Subashini Da Silva (ODU)	Jörg Blaurock (GSI)		
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11:30				Recent progress of SuperKEKB project and	Recent Experimental Results from the	Status and Plan of the ESS Proton Linac	Upgraded Universal Frequency Divider Module For The New FLASH2020+ RF	Beam dynamics optimization for high	Commissioning of a 1.6 m long 16mm	Accelerator Driven Systems - A Soli	ution to Multiple Problems of Society
				future prospect - Yukiyoshi Ohnishi (KEK)	Dielectric Wakefield Acceleration Program	Beam Commissioning	Module For The New FLASH2020+ RF	gradient beam driven plasma wakefield	period Superconducting Undulator at the		MP Lanzhou)
11:40		LIPAc (Linear IFMIF Prototype Accelera	tor) beam commissioning & future plans	1	at CLARA Facility - Thomas Pacey (STFC)	Ryoichi Miyamoto (ESS)	Reference Generation System- Maciej Urbanski (Warsaw University of Technology)	acceleration at SPARC-LAB - Martina Carillo (Sapienza University of Rome)	Australian Synchrotron - Yaw-Ren Tan (ANSTO)		
		Kazuo Hase	gawa (IFMIF)				order (Transaction of Transaction)	(sopietae sintersity striation)	(
11:50				SUSTAINABILITY STUDIES FOR FUTURE	Dielectric Laser Acceleration for Dark Sector	The beam commissioning of 10mA, 100 kW	5D Phase-Space Reconstruction of an	Beam Tomography with Coupling Using	Overview and status of ESS RF systems -		
12:00				LINEAR COLLIDERS Maxim Titov (CEA)	Studies - Raziyeh Dadashi Motlagh (PSI)	CW proton beam at café	Electron Beam - Sonja Jaster-Merz (DESY,	Maximum Entropy Technique - Anthony	Morten Jensen (ESS)		
12:00						Zhijun Wang (IMP)	University of Hamburg)	Tran (FRIB)			er Particle Physics Demann (DESY)
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12:10		R&D in Super-conducting RF: Thin film o	apabilities as a Game Changer for Future	Spin Transparency Experiment Test in RHIC -	First Demonstration of Spin-Polarized	Implementation status of MYRRHA phase 1	Understanding the Beam Quality	A Study on Differentiable Space Charge	Sustainability in storage rings based light		
		Susta	inability	Spin Transparency Experiment Test in RHIC - Haixin Huang (BNL)	First Demonstration of Spin-Polarized Electrons from Gallium Nitride Photocathodes - Samuel Levenson (Cornell U	Implementation status of MYRRHA phase 1 (MINERVA) - Ulrich Dorda (Belgian Nuclear Research Centre)	Requirement for a High Energy Electron	A Study on Differentiable Space Charge Model Based on the Green's Function Solver - Chong Shik Park (Korea University	Sustainability in storage rings based light sources - Jean-Luc Revol (ESRF)		
12:10		Susta	apabilities as a Game Changer for Future inability toine (CEA)	Spin Transparency Experiment Test in RHIC - Haixin Huang (BNL)	Electrons from Gallium Nitride	(MINERVA) - Ulrich Dorda (Belgian Nuclear	Understanding the Beam Quality Requirement for a High Energy Electron Microscopy - Yian Wang (Tsinghua U)	Model Based on the Green's Function	Sustainability in storage rings based light sources - Jean-Luc Revol (ESRF)		
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12:20 12:30 12:40		Susta Claire An	inability	Haixin Huang (BNL)	Electrons from Gallium Nitride	(MINERVA) - Ulrich Dorda (Belgian Nuclear	Requirement for a High Energy Electron Microscopy - Yian Wang (Tsinghua U)	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)	Peter McIr	ing Remarks on Program ntosh (STFC)
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12:20 12:30 12:40 12:45 12:55	Student POSTER	Susta Claire An	inability toine (CEA)	Haixin Huang (BNL)	Bettron from Gallium Hitride Photocathodes - Samuel Levenson (Cornell U 1230 - 14:30)	(MMERVA) - Ulrich Dorda (Belgian Nuclear Research Centre) LUNCH (12	Requirement for a High Energy Electron Microscopy - Yian Wang (Tsinghua U)	Model Based on the Green's Function Solver - Chong Shik Park (Corea University Sejong Campus) LUNCH (12	sources - Jean-Luc Revol (ESRF)	Peter McI IPAC24 P Fulvia Pi IPAC23 Closi Ralph Assi	ntosh (STFC) resentation lat (ORNL) ing and Thanks
12:30 12:40 12:45 12:55 14:00 14:30 14:40	Session Location:	Susta Claire An LUNCH (1:	inability 2:40 - 14:30)	Halson Huang (BNL) LUNCH (12 Chair: Christoph Quitmann Industry Session	Electrons from Gallium Nitride Photocathodes - Samuel Levenson (Cornell U	(MMERVA) - Ulrich Dorda (Belgian Nuclear Research Centre) LUNCH (12	Requirement for a High Energy Electron Microscopy - Yian Wang (Tsinghua U)	Model Based on the Green Function Solver - Chong Shik Park (Corea University Sejong Campus) LUNCH (12 Chair: Mike Seidel (PSI)	sources - Jean-Luc Rood [[SRF]]	Peter McI IPAC24 P Fulvia Pi IPAC23 Closi Ralph Assi	ntosh (STFC) resentation lat (ORNL) ing and Thanks mann (DESY)
12:20 12:30 12:40 12:45 12:55	Session Location: Exhibition Area	Susta Claire An LUNCH (1: Sala Grande Chair: Seunghwan Shin (Post ech) Electron Beam Test Facilities for Novel Applications	Sala Darsena Chair Victor Malia (Weirmann IoS) Laser Plasma Acceleration beyond the Diffraction and Dephasing Limits	Halson Huang (BNL) LUNCH (12 Chain-Christoph Guitmann Franchische Seineen European laboratories	Electron from Gallium Hitride Photocathodes - Samuel Levenson (Cornell U 30 - 14:30) Chair: Sara Casabhuoni (Eu-NFE) Superconducting Undulation for Future Superconducting Undulation for Future	(MINERVA) - Ulrich Dorda (Belgian Nuclear Research Centre)	Requirement for a high Energy Electron Microscopy- Vian Wang (Tsinghua U) 30 - 14/30] Chart Eate Tologoa (1381) Recent Pagers in 16/37 Emperature Recent Pagers in 16/37 Emperature Recent Pagers in 16/37 Emperature	Model Based on the Green's Function Solver - Choney Shirt (Lorsa University Sejong Campus) LUNCH (12 Chair: Mike Seidel (PSI) Price Seidel Price Seidel (PSI)	sources - Jans-Luc Revol (158F) -30 - 14-30)	Peter McI IPAC24 P Fulvia Pi IPAC23 Closi Ralph Assi	ntosh (STFC) resentation lat (ORNL) ing and Thanks mann (DESY)
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12:30 12:40 12:45 12:55 14:00 14:30 14:40	Session Location: Exhibition Area	Sala Grande LUNCH (1: Sala Grande Chair Seunghwan Shin (PoxTech), Electron Ream Facilities for Novel Applications Deepa Angal-Kalinin (STFC) Predicting Collective Dynamics and Predicting Collective Dynamics and Instabilities in Storage Ring Light Sources	Sala Darsena Chair Victor Malha (Weirmann IoS) Later Planna Acceptation beyond the Offication and Dephasing Limits Certification and Dephasing Limits Certif	Chair: Christoph Quitmann Industry Steven Mandaka between European laboratories and Industries for particle accelerator development - Caterina Biscari (AIAR-CELIS An Introduction - Caterina Biscari (AIAR-CELIS AND - CATERINA	Electron from Gallum Nitride Photocathodes - Samuel Levenson (Cornell U Chair, Sara Casabhoon (Ele-YEL) Superconducting Undulators for Future Light Sources Marco Calvi (PS) Towards the Sub-Angström Regime at ELXFELS implacement	Chair Cilver Boine Franceheim (SSI) Accelerator Pranceheim (SSI) Accelerator Pranceheim (SSI) Accelerator Pranceheim (SSI) Accelerator Pranceheim (SSI) The Cool Copper Collider (CSI) Concept for a life	Requirement for a high Energy Section Microscopy- Van Wang (Tsinghau II) One: Les Tologos (CAN) Recent Progress Na High Temperature Suprementation Magnet Technology Surgroups Hadron Good National University The Sheet Model Progress of Michael The Sheet Michael Th	Model Based on the Green's Yunction Solver - Chong Shir Arti (Korea University Sejong Campus) LUNCH (12 Chair: Mike Seidel (PS) Pite Seis Rolf Wid Ratum	sources - Jans-Luc Read (ESSP) -30 - 14-30) -oriented - Jans-Luc Read (ESSP) -oriented - Jans-Luc Read (E	Peter McI IPAC24 P Fulvia Pi IPAC23 Closi Ralph Assi	ntosh (STFC) resentation lat (ORNL) ing and Thanks mann (DESY)
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12:30 12:30 12:40 12:45 14:30 14:30 14:50 15:00	Session Location: Exhibition Area	Sala Grande LUNCH (1: Sala Grande Chair Seunghwan Shin (PoxTech), Electron Ream Facilities for Novel Applications Deepa Angal-Kalinin (STFC) Predicting Collective Dynamics and Predicting Collective Dynamics and Instabilities in Storage Ring Light Sources	Sala Darsena Chair Victor Malha (Weirmann IoS) Later Planna Acceptation beyond the Offication and Dephasing Limits Certification and Dephasing Limits Certif	Chair: Christoph Quitmann Industry Sevien Grant Gra	Electron from Gallium Nitride Photocathodes - Samuel Levenson (Cornell U 30 - 14:30) Chair: Sara Casabboom (Eu-XFE) Superconducting Undulators for Future Light Sources Marco Clan (FS) Towards the Sub-Augustein Region a EUXFEL Simulations and First Experimental EUXFEL Simulations and First Experimental	Chair Cilver Boine Franceheim (SSI) Accelerator Pranceheim (SSI) Accelerator Pranceheim (SSI) Accelerator Pranceheim (SSI) Accelerator Pranceheim (SSI) The Cool Copper Collider (CSI) Concept for a life	Requirement for a high Energy Section Microscopy* Van Wang (Tainghea U) Other East Todasco (1991) Research Program in High Temperature Supermodestar August Technology August Program in High Temperature Supermodestar August Technology The Short Heads Program of High English Section Program of the High Section Program of High English Section Prog	Model Based on the Green's Yanction Solver - Chong Shir Park (Great University Sejong Campus) LUNCH (12 Chair: Mike Seidel (PSI) Price Ses Roff Wid Katuun Genh B Mikhail I	sources - Jans-Luc Read (ESSE) 130 - 1430) Screede Iden (4207) erde Prize castellery Esservices Sister Prize castellery	Peter McI IPAC24 P Fulvia Pi IPAC23 Closi Ralph Assi	ntosh (STFC) resentation lat (ORNL) ing and Thanks mann (DESY)
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	Sunday 7 May	Monday 8 f	May 2023	Tuesday 9	May 2023	Wednesday	10 May 2023	Thursday 11 May 2023		Friday 12 May 2023	
		Sala Da	rsena	Sala Grande	Sala Darsena	Sala Grande	Sala Darsena	Sala Grande Sala Darsena Physics of StarWars		Sala Grande	Sala Darsena
8:30								Carsten Welsch (Ur			
9:00		Chair: Ralph Assmann (DESY)		Chair: Yolchi Sato (KEK)	Chair: Seunghwan Shin (PosTech)	Chair: Mark Boland (CLS)	Chair: Sandra Biedron (U New Mexico)	Chair: Jui-Che Huang (NSRRC)	Chair: Edda Gschwendtner (CERN)	Chair: Jie Gao, IHEP	Chair: Auralee Edelen, SLAC
		IPAC23 O	pening	J-PARC Operation with the High Repetition	Arbitrary Bunch Shaping via Wake Potential	Towards a True Diffraction Limited Storage	Treatment of "Forever Chemicals" in	High-Beam Current Operation with a Digital	Towards the COXINEL Seeded FEL with a	Prospects for Future Facilities Based on	Coherence in High Gain FELs: From Electron
9:05		Local/Political /		Rate Upgrade Takaaki Yasui (KEK)	Tailoring Young Dae Yoon (PAL - APCTP)	Ring Light Source Lina Hoummi (ESRF)	Wastewater with Electron Beams John Vennekate (ODU)	Low-Level Radio Frequency System Fu-Yu Chang (NSRRC)	Laser Plasma Accelerator at HZDR Marie Emmanuelle Couprie (SOLEIL)	Energy Recovery Linacs Peter Williams (STFC)	Intrabeam Scattering to Quantum Effects Giovanni Perosa (Univ. Trieste)
9:15		Welcome fo Antonio Zoccoli (I									
9:30		Welcome fro	om Elettra	Laser assisted stripping injection	A Novel Method to Suppress the Emittance	ALBA II Accelerator Upgrade Project Status	Challenging students into developing	RF system on a chip: A compact controller	Asymmetric Effects in Shock-Injection of	Timepix and Medipix Detectors and Their	Outlook to future XFELs
		Alfonso Franciosi (I Practical Deta		development at the SNS Timofey Gorlov (ORNL)	Variation in Extremely Low Emittance Light Source Storage Rings - Kouichi Soutome	- Francis Perez (ALBA-CELLS)	accelerator-based innovations to protect the environment - Phil Burrows (University	for SRF cavity field and detuning control - Andriy Ushakov (Helmholtz-Zentrum Berlin	Laser-Plasma Acceleration of Electrons - Eitan Levine (Weizmann Institute of Science)	Applications Michael Campbell (CERN)	Dong Wang (Shanghai Advanced Research Institute)
9:35		Practical Deta Giovanni Bisoffi - A		innoicy donor (drinte)	(RIKEN SPring-8)		Oxford)	für Materialien und Energie GmbH)	entire (Treemain Institute or serence)	mender compact (cent)	
9:40		Performance with the U									
		Malika Meddahi (CERN)									
9:50				Laser cooling taken to the extreme: cold relativistic intense beams of highly-charged	Experimental confirmation of the impedance reduction campaign in the CERN	Status of SIRIUS Operation with Users - Lin Liu (Brazilian Synchrotron Light Laboratory)	On the commissioning of the laser-driven ion beamline ELIMED - Francesco Schillaci	Robotic Solutions for the Remote Inspection and Maintenance of Particle	FLASHForward: experimental progress towards an idealised plasma-based energy		
10:00				heavy ions - Danyal Winters (GSI)	SPS, Giulia Papotti (CERN)		(ELI Beamlines)	Accelerators - Mario Di Castro (CERN)	booster - Judita Beinortaite (DESY)	Quantum Computing and Accelerator	Commissioning and Operation of the
10.00										Technology Anna Grassellino (FNAL)	SPIRAL2 SC Linac
										Anna Grassellino (FNAL)	Angie ORDUZ (GANIL)
10:10		Elettra2.0 – Italy's Lightsourc	e for Science and Outreach	Experimental Measurement of Quadrupole	New techniques for the LNL	Green-oriented upgrade of accelerator	Accelerator operation performance during	Using P-Spice model for spark detection in			
10:20		Emanuel Karanta	zoulis (Elettra)	Beam Oscillating Frequency at CSNS RCS	superconductive Linac ALPI beam dynamics simulations and commissioning - Luca Bellan	complex at the SPring-8 campus - Hitoshi Tanaka (RIKEN SPring-8 Center)	the NSC KIPT SCA neutron source physical start up - Andrey Zelinsky (NSC, Ukraine)	TRIUMF's main cyclotron system - Ramona Leewe (TRIUMF)	accelerator by a laser driven plasma wave at CLARA - Lewis Reid (Cockcroft Institute)		
				roc room (mer)	(INFN)	rundia (micros mig o center)	start up Printery Economy (1956, Octobrie)	ccerc (monny	at control - constitution (control institute)		
10:30				Coffee	e / Tea	Coffe	e / Tea	Coffe	e / Tea	Coffe	e / Tea
10:40 11:00		Coffee	/Tea	Chair: Oliver Boine-Frankenheim (GSI)	Chair: Evgenya Simakov (LANL)	Chair: Mamad Eshraqi (ESS)	Chair: Adriana Rossi (CERN)	Chair: Rogelio Tomas Garcia (CERN)	Chair: M.H Moscatello (Ganill	Sala Grande	
- 1 1						***			Terriamostateno (Gami)	Chair: Peter McIntosh (STFC)	
11:10 11:20		Chair: James Clarke (STFC) LCLS-II Commiss	ioning Results	Overall Status of the HL-LHC Project Oliver Brüning (CERN)	Fabrication and Testing of Corrugated Waveguides for a Collinear Wakefield	The IFMIF-DONES Facility: A Fusion- Oriented 5 MW Superconducting CW Linear	Two-Dimensional Electron Beam Size Measurements with X-ray Heterodyne Near	SRF Cavities for Crabbing at the Electron-Ion Collider	FAIR completion of construction works, towards commissioning and first science	European Collaboration Andrea Pi	for the Realization of ESS sent (INFN)
		Axel Brachm	ann (SLAC)		Accelerator	Accelerator	Field Speckles	Subashini Da Silva (ODU)	Jörg Blaurock (GSI)	. Sidica i	
					Alexander Zholents (ANL)	Ivan Podadera (DONES)	Mirko Siano (University of Milan)				
11:30				Recent progress of SuperKEKB project and	Recent Experimental Results from the	Status and Plan of the ESS Proton Linac	Upgraded Universal Frequency Divider Module For The New FLASH2020+ RF	Beam dynamics optimization for high	Commissioning of a 1.6 m long 16mm		ution to Multiple Problems of Society
				future prospect - Yukiyoshi Ohnishi (KEK)	Dielectric Wakefield Acceleration Program	Beam Commissioning	Module For The New FLASH2020+ RF	Beam dynamics optimization for high gradient beam driven plasma wakefield	period Superconducting Undulator at the		MP Lanzhou)
11:40		LIPAc (Linear IFMIF Prototype Accelerato	r) beam commissioning & future plans		at CLARA Facility - Thomas Pacey (STFC)	Ryoichi Miyamoto (ESS)	Reference Generation System- Maciej Urbanski (Warsaw University of Technology)	acceleration at SPARC-LAB - Martina Carillo (Sapienza University of Rome)	Australian Synchrotron - Yaw-Ren Tan (ANSTO)		
		Kazuo Hasega	awa (IFMIF)				•				
11:50				SUSTAINABILITY STUDIES FOR FUTURE	Dielectric Laser Acceleration for Dark Sector	The beam commissioning of 10mA, 100 kW	5D Phase-Space Reconstruction of an	Beam Tomography with Coupling Using	Overview and status of ESS RF systems -		
12:00				LINEAR COLLIDERS Maxim Titov (CEA)	Studies - Raziyeh Dadashi Motlagh (PSI)	CW proton beam at café Zhijun Wang (IMP)	Electron Beam - Sonja Jaster-Merz (DESY, University of Hamburg)	Maximum Entropy Technique - Anthony Tran (FRIB)	Morten Jensen (ESS)		r Particle Physics
						Zinjun Wang (iMF)	oniversity or Hamourg)	Hall (FRID)		Beate Heine	emann (DESY)
12:10		R&D in Super-conducting RF: Thin film cap	pabilities as a Game Changer for Future	Spin Transparency Experiment Test in RHIC -	First Demonstration of Spin-Polarized	Implementation status of MYRRHA phase 1	Understanding the Beam Quality	A Study on Differentiable Space Charge	Sustainability in storage rings based light		
		Sustain: Claire Anto		Haixin Huang (BNL)	Electrons from Gallium Nitride Photocathodes - Samuel Levenson (Cornell II)	(MINERVA) - Ulrich Dorda (Belgian Nuclear Research Centre)	Requirement for a High Energy Electron Microscopy -	Model Based on the Green's Function Solver - Chong Shik Park (Korea University	sources - Jean-Luc Revol (ESRF)		
12:20		Claire Anto	ine (CEA)		Protocationes - Samuel Levenson (Content o)	nesearch centre)	Yian Wang (Tsinghua U)	Sejong Campus)			
12:30				LUNCH (12	:30 - 14:30)	LUNCH (12	:30 - 14:30)	LUNCH (12	2:30 - 14:30)	IPAC23 SPC Chair Clos	ing Remarks on Program
12:30 12:40 12:45		LUNCH (12:4	40 - 14:30)	i i i i i i i i i i i i i i i i i i i	24130)	Loner (IL	130 - 24130)	LONG! (II	24:30)	Peter McI	ntosh (STFC)
											resentation lat (ORNL)
12:55											ing and Thanks
14:00	Student POSTER	Sala Grande	Sala Darsena					Sala	Grande		mann (DESY) End of IPAC23
14:30	Session Location:	Chair: Seunghwan Shin (PosTech) Electron Beam Test Facilities for Novel	Chair: Victor Malka (Weizmann IoS) Laser-Plasma Acceleration beyond the	Chair: Christoph Quitmann	Chair: Sara Casabluoni (Eu-XFEL) Superconducting Undulators for Future	Chair: Oliver Boine-Frankenheim (GSI) Accelerator Physics Challenges for EIC	Chair: Ezio Todesco (CERN) Recent Progress in High Temperature	Chair: Mike Seidel (PSI)	sion (4x20')		
14:40 14:50	Exhibition Area	Applications	Diffraction and Dephasing Limits	Handshake between European laboratories	Light Sources	Vadim Ptitsyn (BNL)	Superconductor Magnet Technology	Prize Sess	sion (4x20)		
	(14:00 - 18:00)	Deepa Angal-Kalinin (STFC)	Cedric Thaury (LOA CNRS)	and industries for particle accelerator development - Caterina Biscari (ALBA-CELLS	Marco Calvi (PSI)		Seungyong Hahn (Seoul National University)	Rolf Wid	leröe Prize		
14:50				Synchrotron) An introduction to future accelerator based				Katsun	obu Oide		
14:50 15:00		Predicting Collective Dynamics and	EuPRAXIA and its Italian Construction	projects and the technological trends in Asia/Australia - Jie Gao (Chinese Academy	Towards the Sub-Ångström Regime at	The Cool Copper Collider (C3) Concept for a	The Short Model Program of Nb3Sn	Garch Ru	udker Prize	1	
15:10		Instabilities in Storage Ring Light Sources Ryan Lindberg (ANL)	Project Massimo Ferrario (INFN)		EuXFEL: Simulations and First Experimental Results	Higgs Factory Emilio Nanni (SLAC)	Quadrupoles for the HiLumi LHC and its Potential		Krasilnikov		
15:20		nyan unuucig (nitu)	(Vivin) Orienta i Orienta.	Present and future accelerator	Frank Brinker (DESY)		Paolo Ferracin (LBNL)			1	
				developments in America and their industrial needs - Fulvia Pilat (Oak Ridge				Frank Sac	therer Prize		
15:30		Chair: Georg Hoffstagtter (Cornell&BNI)	Chair: Adriana Rossi (CERN)	National Laboratory) Chair: Maurizio Vretenar	Chair: Ubaldo Iriso (ALBA)	Chair: Jie Gao (IHEP)	Chair: Georg Hoffstaetter (Cornell&BNL)	Xingo	hen Xu		
				Industry Session			A short-length transport line for laser				
15:40		X-band Activities at INFN-LNF - F.Cardelli (INFN)	Time-drift aware RF Optimization with Machine Learning Techniques - Ralitsa	From CERN to industrial applications: MgB2	Megaelectron-Volt Ultrafast Electron Microscope – The Future of Electron	The need for Nb3Sn coated Cu RF Cavities for Future Accelerators - Emanuela Barzi	A short-length transport line for laser plasma accelerators using HTS periodic				
			Sharankova (FNAL)	high temperature superconductors wire technology for energy transmission - Davide	Imaging - Xijie Wang (SLAC)	(FNAL)	magnets - Samira Fatehi (KIT)	Bruno Tou	uschek Prize		
				Malacalza (ASG Superconductors)							
15:50			Intelligent Online Optimization in X-ray	How and why setting up a company in	Fabrication, Conditioning, Installation and	An Experimental Study of X-Y Emittance	Novel Iron Lamination for fast kicker			1	
		Analysis in a Medical Cyclotron at TENMAK-NUKEN - Serdar Bulut (Turkish	Free-Electron Lasers - Zihan Zhu (Shanghai Institute of Applied Physics)	Europe working on the particles accelerator field - Carsten Welsch (The University of	Commissioning with the Beam of the First High Gradient (HG) Module for the FERMI	Repartitioning in KEK-STF - Zachary Liptak (Hiroshima University)	magnets with high flux density - Kenji Fukami (JASRI)				
16:00		Energy, Nuclear and Mineral Research	(a.a.a. a. manata or reppired Filyana)	Liverpool)	Linac Upgrade - Nuaman Shafqat (Elettra)						
16:00		Agency)		Going global: from a spin-off company to a							
				mature successful business. Challenges and critical success factors - Raffaella							
				Geometrante (Kyma S.p.A.)				Entertainn	nent Session		
16:10		Additive manufacturing of copper RF	Efficient Tuning of Particle Accelerator	Innovation partnership for the	User delivery experience of Hard X-ray Self-	PERLE: A novel facility for ERL development	High-power tests of the compactly HOM- damped TM020-cavities for a next				
		structures for particle accelerator applications - Kip Bishofberger (LANL)	Emittance via Bayesian Algorithm Execution and Virtual Objectives - Ryan	industrialization and production of the BPM electronics - Manuel Cargnelutti	seeding at the European XFEL - Gianluca Geloni (European XFEL GmbH)	and applications in multi-turn configuration and high-power regime - Walid Kaabi (UCLab)	generation light source - Takahiro Inagaki				
16:20			Roussel (SLAC)			(UCLab)	(Spring-8)				
10.20				Collaboration between institutes and Thales: presentation of a successful							
				technology transfer case study - Rodolphe Marchesin (Thales Electron Devices)							
16:30		Coffee			e / Tea		e / Tea		ee / Tea	1	
18:30	Welcome Reception (until	POSTERS (16:	:30 - 18:30)	POSTERS (10 Conference Cocktail Re		POSTERS (1 Equal Opportunity Se	6:30 - 18:30) ession (18:30 - 19:30)		6:30 - 18:30) juet (19:30 - 00:00)	1	Last Updated 2023/03/21
							,			-	

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





14:00	Student POSTER
14:30	Session
14:40	Location:
14:50	Exhibition Area
	(14:00 - 18:00)
14:50	
15:00	
15:10	
15:20	
45.00	
15:30	
15:40	
15:50	
13.30	
16.00	
16:00	
16:10	
16:20	
16:30	
18:30	Welcome
	Reception (until
	• •

Sunday 07/05/23





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)
Entancer Karantzouns (Electra)
Coffee/Tea
Chair: James Clarke (STFC)
LCLS-II Commissioning Results
Axel Brachmann (SLAC)
LIPAc (Linear IFMIF Prototype Accelerator) beam commissioning & future plans Kazuo Hasegawa (IFMIF)
Kazuo Hasegawa (ITWIII)
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	Laser-Plasma Acceleration beyond the
Applications	Diffraction and Dephasing Limits
Deepa Angal-Kalinin (STFC)	Cedric Thaury (LOA CNRS)
Predicting Collective Dynamics and	EuPRAXIA and its Italian Construction
Instabilities in Storage Ring Light Sources	Project
Ryan Lindberg (ANL)	Massimo Ferrario (INFN)
Chair: Georg Hoffstaetter (Cornell&BNL)	Chair: Adriana Rossi (CERN)
X-band Activities at INFN-LNF - F.Cardelli	Time-drift aware RF Optimization with
(INFN)	Machine Learning Techniques - Ralitsa
	Sharankova (FNAL)
An Experimental Setup for PIXE/PIGE Analysis in a Medical Cyclotron at	Intelligent Online Optimization in X-ray Free-Electron Lasers - Zihan Zhu
TENMAK-NUKEN - Serdar Bulut (Turkish	(Shanghai Institute of Applied Physics)
Energy, Nuclear and Mineral Research	(Shanghar mistitute of Applied Physics)
Agency)	
8 5 - 377	
Additive manufacturing of copper RF	Efficient Tuning of Particle Accelerator
structures for particle accelerator	Emittance via Bayesian Algorithm
applications - Kip Bishofberger (LANL)	Execution and Virtual Objectives - Ryan Roussel (SLAC)
	Noussel (SLAC)
	1-
	e / Tea
POSTERS (1	6:30 - 18:30)

Monday 08/05/23

MC01 - Colliders and other Particle Physics
Accelerators

MC02 - Photon Sources and Electron

Accelerators

MC03 - Novel Particle Sources and Acceleration Techniques

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Opening, Closing and Special Presentations

Plenaries





Chair: Yoichi Sato (KEK)	Chair: Seunghwan Shin (PosTech)
J-PARC Operation with the High Repetition Rate Upgrade	Arbitrary Bunch Shaping via Wake Potential Tailoring
Takaaki Yasui (KEK)	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)
December of Computation and the computation of the	Recent Experimental Results from the
Recent progress of SuperKEKB project and future prospect - Yukiyoshi Ohnishi (KEK)	Dielectric Wakefield Acceleration Program at CLARA Facility - Thomas Pacey (STFC)
	_

Chair, Christanh Quitmann	Chair, Sara Casahluani /Fu VFFI
Chair: Christoph Quitmann	Chair: Sara Casabluoni (Eu-XFEL)
Industry Session Handshake between European laboratories	Superconducting Undulators for Future
and industries for particle accelerator	Light Sources
development - Caterina Biscari (ALBA-CELLS	Marco Calvi (PSI)
Synchrotron) An introduction to future accelerator based	
projects and the technological trends in	Towards the Sub-Ångström Regime at
Asia/Australia - Jie Gao (Chinese Academy	EuXFEL: Simulations and First Experimental
of Sciences)	Results
Present and future accelerator	Frank Brinker (DESY)
developments in America and their	Frank Billiker (DEST)
industrial needs - Fulvia Pilat (Oak Ridge	
National Laboratory)	
Chair: Maurizio Vretenar	Chair: Ubaldo Iriso (ALBA)
Industry Session	Chair. Obdido 1130 (ALBA)
That stry Session	Megaelectron-Volt Ultrafast Electron
From CERN to industrial applications: MgB2	Microscope – The Future of Electron
high temperature superconductors wire	Imaging - Xijie Wang (SLAC)
technology for energy transmission - Davide	imaging - Aijie Wang (SLAC)
Malacalza (ASG Superconductors)	
How and why setting up a company in	Fabrication, Conditioning, Installation and
Europe working on the particles accelerator	Commissioning with the Beam of the First
field - Carsten Welsch (The University of	High Gradient (HG) Module for the FERMI
Liverpool)	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	User delivery experience of Hard X-ray Self-
industrialization and production of the BPM	seeding at the European XFEL - Gianluca
electronics - Manuel Cargnelutti	Geloni (European XFEL GmbH)
(Instrumentation Technologies)	
Collaboration between institutes and	
Thales: presentation of a successful	
technology transfer case study - Rodolphe	
Marchesin (Thales Electron Devices)	
,	e / Tea
	5:30 - 18:30)
·	eception (19:00 - 22:00)
L Controller Cocktain Ne	22.00)

Tuesday 09/05/23

MC01 - Colliders and other Particle Physics
Accelerators

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Accelerators

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Opening, Closing and Special Presentations

Plenaries





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)
	e / 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-Frankenheim (GSI)	Chair: Ezio Todesco (CERN)
Accelerator Physics Challenges for EIC	Recent Progress in High Temperature
Vadim Ptitsyn (BNL)	Superconductor Magnet Technology
, , ,	Seungyong Hahn (Seoul National University)
The Cool Copper Collider (C3) Concept for a	The Short Model Program of Nb3Sn
Higgs Factory	Quadrupoles for the HiLumi LHC and its
Emilio Nanni (SLAC)	Potential
	Paolo Ferracin (LBNL)
Chair: Jie Gao (IHEP)	Chair: Georg Hoffstaetter (Cornell&BNL)
Chair. He dao (IIIEr)	Chair. Georg Horistaetter (Cornell&BNL)
The need for Nb3Sn coated Cu RF Cavities	A short-length transport line for laser
for Future Accelerators - Emanuela Barzi	plasma accelerators using HTS periodic
(FNAL)	magnets - Samira Fatehi (KIT)
(110,12)	magnets - Samila Patem (Kir)
An Experimental Study of X-Y Emittance	Novel Iron Lamination for fast kicker
Repartitioning in KEK-STF - Zachary Liptak	magnets with high flux density - Kenji
(Hiroshima University)	Fukami (JASRI)
PERLE: A novel facility for ERL development	High-power tests of the compactly HOM-
and applications in multi-turn configuration	damped TM020-cavities for a next
and high-power regime - Walid Kaabi	generation light source - Takahiro Inagaki
(IJCLab)	(Spring-8)
0.55	- /
	e / Tea
•	6:30 - 18:30)
Equal Opportunity So	ession (18:30 - 19:30)

Wednesday 10/05/23

MC01 - Colliders and other Particle Physics
Accelerators

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Opening, Closing and Special Presentations

Plenaries





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	e / 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')
F1126 36331011 (4A20)
Rolf Wideröe Prize
Katsunobu Oide
National State
Gersh Budker Prize
Mikhail Krasilnikov
Frank Sacherer Prize Xingchen Xu
Aingchen Au
Bruno Touschek Prize
Entertainment Session
Litter tailinient 3ession
Coffee / Tea
POSTERS (16:30 - 18:30)
Conference Banquet (19:30 - 00:00)

Thursday 11/05/23

MC01 - Colliders and other Particle Physics Accelerators

MC02 - Photon Sources and Electron

Accelerators

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MC04 - Hadron Accelerators

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Feedback & Operational Aspects

MC07 - Accelerator Technology and Sustainability

MC08 - Applications of Accelerators, Technology Transfer and Industrial Relations and Outreach

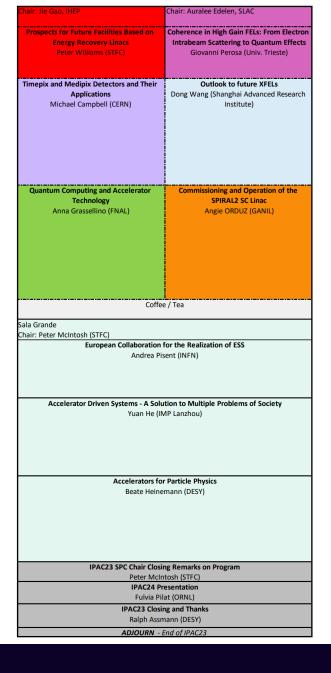
MC09 - Engagement with Industry, Knowledge Exchange and Industrial Relations

Opening, Closing and Special Presentations

Plenaries







Friday 12/05/23

MC01 - Colliders and other Particle Physics Accelerators

MC02 - Photon Sources and Electron

Accelerators

MC03 - Novel Particle Sources and Acceleration Techniques

MC04 - Hadron Accelerators

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Opening, Closing and Special Presentations

Plenaries







Networking



Networking

*Asking questions at posters

- Networking
 - *Asking questions at posters
 - *Asking questions during/after talks



- Networking
 - *Asking questions at posters
 - *Asking questions during/after talks
 - *Making connections with scientists and students from other institutions so that you can make other contacts in the future





- Networking
 - *Asking questions at posters
 - *Asking questions during/after talks
 - *Making connections with scientists and students from other institutions so that you can make other contacts in the future
- Any comment from your side?





- Networking
 - *Asking questions at posters
 - *Asking questions during/after talks
 - *Making connections with scientists and students from other institutions so that you can make other contacts in the future
- Any comment from your side?
- ♦ We wish you all a great IPAC'23 conference!

