



IPAC'25 Scientific Program

Time	Sun. 1 June	Monday 2 June		Tuesday 3 June		Wednesday 4 June		Thursday 5 June		Friday 6 June		
		Plenary Hall , TICC Chair : Ming-Chyuan Lin		Hall 101 , TICC Chair: TU1D	Hall 201 , TICC Chair: TU1N	Hall 101 , TICC Chair: WE1D	Hall 201 , TICC Chair: WE1N	Hall 101 , TICC Chair: TH1D	Hall 201 , TICC Chair: TH1N	Hall 101 , TICC Chair: FR1D	Hall 201 , TICC Chair: FR1N	
9:00 9:30		Welcome Address		Personnel and machine protection for high power accelerator commissioning, operations, and power ramp up Masanori Ikegami , FRIB	Elevating Beam Quality and Stability in Linear Accelerators through High Order Mode Analysis Sanae Samsam , INFN	Experimental demonstration of particle acceleration with normal conducting acceleratingstructure at cryogenic temperature Mamdouh Nasr, SLAC	Upgrade of KEK electron/ positron Injector Linac by using pulse magnets and machine learning Takuya Natsui , KEK	Guiding of charged particle beams in curved plasma-discharge capillaries Riccardo Pompili, INFN	Review of beam based correction and optimisation for accelerators Xiaobiao Huang, SLAC	Review of impedance effects for accelerators Takeshi Toyama, KEK	Deceleration of Ion Beams - Related Challenges and Opportunities Frank Herfurth, GSI	
9:30 9:50		The Operational Challenges: Achieving 500 mA High Beam Current at Taiwan Photon Source Ping-Jung Chou, NSRRC		Challenges and solutions for high-intensity beam operations in the J-PARC Linac Yong Liu, KEK	Study on the eddy current distribution in the coating layer on the ceramic chamber of a nonlinear kicker Hao-Wen Luo, NSRRC	20 years of CESR-B cavity operation at the CLS Frédéric Le Pimpec, CLS	Measurement techniques using the electron beam profile scanner at the Fermilab Main Injector Matilda Mwaniki, Illinois Institute of Technology	Progress on experimental demonstration of high-power generation from 0.4 THz corrugated structure MinKyu Seo, Korea University	Assessing the origin of the LHC beam halo Milica Rakic, EPFL	Review of Linear and Nonlinear Optics Measurements in the CERN LHC Ewen Hamish Maclean, CERN	Enhanced proton and neutron production using the ultra-short (24 fs) and high-power (2 PW) Apollon laser facility Julien Fuchs, CNRS	
10:00				Status of the proton linac for boron neutron capture therapy in the iBNCT project Masaharu Sato, KEK	No parametric instabilities in actual linear accelerators except the envelope instability Dong-O Jeon, IBS	High power RF testing of high-temperature superconductors Ankur Dhar, SLAC	Data-driven hysteresis compensation in the CERN SPS main magnets Anton Lu, CERN	First measurements of electron acceleration with plasma density steps at AWAKE Fern Pannell, UCL	Coherent stability and dynamic aperture with strong space charge for the FAIR SIS100 synchrotron Adrian Oeftiger, John Adams Institute			
10:10				High Beam Power Operations at Heavy Ion Facilities: Technical Developments, Challenges and Resolutions Osamu Kamigaito, RIKEN Nishina Center	Injection into resonance islands Henry Lovelace III, BNL	Comprehensive study of Robinson instability in active and passive higher harmonic cavities for bunch lengthening Youngmin Park, POSTECH	Further high power tests of the additive manufacturing IH-type cavity Hendrik Hähnel, Goethe Universität Frankfurt	Machine learning-based orbit correction in the RCS of CSNS Xiaohan Lu, IHEP	Development of the sub-nanosecond grid-controlled electron source for Hefei Advanced Light Facility injector Feng-lei Shang, USTC	Dynamic dipole kick due to a rippling sextupole Boris Podobedov, BNL	EIC accelerator status Sergei Nagaitsev, BNL	Neutron target for high-intensity operation at J-PARC MLF Katsuhiro Haga, JAEA
10:10 10:30												
10:30		Coffee break (30 mins) @TWTC		Coffee break (30 mins) @TWTC		Coffee break (30 mins) @TWTC		Coffee break (30 mins) @TWTC		Coffee break (30 mins) @TWTC		
		Hall 101 , TICC Chair : Tadashi Koseki		Hall 101 , TICC Chair: TU2D	Hall 201 , TICC Chair: TU2N	Hall 101 , TICC Chair: WE2D	Hall 201 , TICC Chair: WE2N	Hall 101 , TICC Chair: TH2D	Hall 201 , TICC Chair: TH2N	Hall 101 , TICC Chair : Yoichi Sato		
11:00 11:30	Student Traning	Review of nonlinear resonances in accelerators and storage rings; including adiscussion of chaos, particle diffusion and dynamic aperture Shyh-Yuan Lee, Indiana University		Record beam intensity productions of Highly charged heavy ions by 28-45 GHz superconducting ECR ion sources at IMP Liangting Sun, IMP	Design Initiatives for a 10 TeV pCM Wakefield Collider Spencer Gessner, SLAC	Assessing and Increasing the sustainability of future accelerator based facilities Ben Shepherd, STFC	Ultrafast visualization of an electric field under the Lorentz transformation Koichi Kan, QST	Reinforcement Learning in Particle Accelerators Andrea Santamaria Garcia, University of Liverpool / Cockcroft Institute	Beam commissioning of K=500 Superconducting Cyclotron at VECC Jayanta Debnath, DAE	Future circular Higgs factories: Status and prospective Yuhui Li , IHEP		
11:30 11:50		Liquid lithium charge stripping technology: achievement and lessons learned Takuji Kanemura, FRIB, Michigan State University		Experimental generation of petawatt power, extreme electron beams in a particle accelerator Claudio Emma, SLAC	The third long shutdown (LS3) of the CERN accelerator complex Jean-Philippe Tock, CERN	Cryogenic efficiency and sustainability aspects for particle accelerators & detectors Antonio Perin,CERN	Empowering a broad and diverse community in beam dynamics simulations with Xsuite Szymon Lopaciuk,CERN	Development of an RFSoc-based low-level RF controller for an electron linac Hirokazu Maesaka, RIKEN SPring-8 Center	Commissioning 1.7 MW, 1.3 GeV Beam for the Proton Power Upgrade at SNS Nicholas Evans, ORNL	Latest Achievements in Femtosecond Synchronization of Large Scale Facilities Sebastian Schulz, DESY		
12:00				TUBD2	RHIC polarized proton operation in Run24 Kiel Hock, BNL	Active 3rd harmonic RF system for ALBA Francis Perez, ALBA	A module for fast auto differentiable simulations Ji Qiang, LBNL	Development of non-invasive beam diagnostics by quantum optics-based detection Shukai Zhang, Jefferson LAB	FAIR commissioning - Towards first science Stephan Reimann, GSI	BeamPIE – a suborbital test of an accelerator for space applications Quinn Marksteiner, LANL		
12:10		RF Acceleration with Short Pulses: Breaking the High-Gradient Barrier Xueying Lu, ANL										Optimization of the Korea-4GSR storage ring for increasing the off-momentum dynamic aperture by analyzing resonance driving terms Junha Kim, PAL
12:10 12:30									Lunch break (60 mins) @ TWTC		Closing Remarks (12:30 - 13:30)	
12:30		Lunch break (90 mins) @ TWTC		Lunch break (90 mins) @ TWTC		Lunch break (90 mins) @ TWTC		Lunch break (90 mins) @ TWTC				
13:30												
14:00		Hall 101 , TICC Chair: MO3D	Hall 201 , TICC Chair: MO3N	Hall 101 , TICC Chair: TU3D	Hall 201 , TICC Chair: TU3N	Hall 101 , TICC Chair: WE3D	Hall 201 , TICC Chair: WE3N	Hall 101, TICC Chair: In-Soo Ko		Facility Tour 13:30 -		
14:00 14:30	Student Poster Session (TWTC)	ILC accelerator status Hiroshi Sakai, KEK	Overview of permanent magnetimplementations for advanced lightsources Ciro Calzolaio, PSI	Toward realization of few-cycle free electron lasers: basic concept and its experimental demonstration Takashi Tanaka, RIKEN SPring-8	Carbon ion therapy facility at Taipei Veterans General Hospital Keng-Li Lan, TVGH	Industry Session	Cascaded hard X-ray self-seeded free-electron laser at megahertz repetition rate Shan Liu, DESY	Award Session 13:30 -14:50		Taiwan Photon Source , National Synchrotron Radiation Research Center or Heavy Ion Therapy Center , Taipei Veterans General Hospital		
14:30 15:00		Status of the Baseline Design for a 10 TeV Muon Collider Daniel Schulte, CERN	Development for Various Applications at Compact ERL as a high-power CW SRF linac in KEK Masahiro Yamamoto, KEK	SPS-II Project: Status update Porntip Sudmuang, SLRI	Compact hadron sources and linacs for societal applications Alessandra Lombardi, CERN		LCLS-II commissioning and operation with high-repetition-rate CW FELs Yuantao Ding , SLAC					
		Hall 101 , TICC Chair: MO4D	Hall 201 , TICC Chair: MO4N	Hall 101 , TICC Chair: TU4D	Hall 201 , TICC Chair: TU4N	Hall 101 , TICC Chair: WE4D	Hall 201 , TICC Chair: WE4N	Best Student Poster Award 14:50-15:00				
15:00 15:20		Updated baseline design for HALHF: the hybrid, asymmetric, linear Higgs factory Carl A. Lindstrøm, Univ. of Oslo	Nb3Sn cavity development based on vapor deposition method at KEK Hayato Ito, KEK	Operational status and future project of the KEK Photon Factory Takashi Obina, KEK	High-level environmental sustainability guidelines for large accelerator facilities Hannah Wakeling, John Adams Institute	Future e+e- colliders using recycling Energy-Recovery Linacs Vladimir Litvinenko, Stony Brook University	SLS 2.0 storage ring commissioning Michael Böge, PSI	Entertainment Session 15:00 -15:30				
15:20 15:40		Commissioning of BEPCII-U Huiping Geng, IHEP	MOCN2	Commissioning of the Advanced Photon Source Upgrade -- the first swap-out injection-based synchrotron light source Vadim Sajaev, ANL	Engineering magnetic carbon nanotubes via swift heavy ion irradiation for spintronics and quantum technologies: XAS and RAMAN study Priyal Singhal, Panjab University	Development of cold atom electron source in KEK Yosuke Honda, KEK	An ultrafast strong-field terahertz light source to characterize quantum functional materials Tong Zhang, USTC	Why Did My Ancestors Leave Taiwan? Futuru C.L. Tsai				
15:40 16:00		Observations and efforts to reduce sudden beam loss at SuperKEKB Hitomi Ikeda, KEK	Searches for RF breakdown precursors using Cherenkov light in optical fibers Paarangat Pushkarna, Univ. of Melbourne	Evaluation method and countermeasures for the beam loss in fourth-generation light sources Toshihiko Hiraiwa, RIKEN SPring-8	Commissioning of the South African Isotope Facility Adriaan Barnard, iThemba LABS	Experimental demonstration of transient-beam-loading compensation using new digital LLRF system at the Photon Factory storage ring Daichi Naito, KEK	First beam commissioning of the HZB superconducting radio-frequency photoelectron gun Thorsten Kamps, HZB	Poster Session / Coffee 15:30-17:30 (TWTC)				
16:00 17:30		Poster Session / Coffee (TWTC)		Poster Session / Coffee (TWTC)		Poster Session / Coffee (TWTC)				MC5 Bean Dynamics and EM Fields		
18:00										MC6 Beam Instrumentation and Controls, Feedback and Operational Aspects		
18:10	Welcome Reception (TICC 1F)									MC7 Accelerator Technology and Sustainability		
18:45										MC8 Applications of Accelerators, and Engagement for Industry and Society		
20:00												
20:40												