

Day 1

Time	Chair	November 13 (Wed)	Hall
09:00 ~ 12:00 (180)		Satellite Meeting on Novel Accelerator Technologies	4F Emerald Hall
10:00 ~ 13:00 (180)		Registration	5F Lobby
13:10 ~		Start of Poster Session	2F Poster Hall
13:10 ~ 13:40 (30)	Dr. Chang-Ki Min (PAL / POSTECH)	Opening & Welcome Address, Congratulatory Address, Photo Taking	
13:40 ~ 14:10 (30)	Dr. Dong-O Jeon (IRIS / IBS)	Prof. Sheng Wang (China Spallation Neutron Source / Institute of High Energy Physics) The Introduction to Accelerators and Beam Utilization in CSNS	5F Grand Hall
14:10 ~ 14:40 (30)		Dr. Masashi Ohtani (The High Energy Accelerator Research Organization (KEK)) Recent Results of the J-PARC Linac Beam Commissioning	
14:40 ~ 15:10 (30)		Prof. Ping He (Institute of High Energy Physics) Update on HEPS Progress	
15:10 ~ 15:40 (30)		Dr. Deuk Soon Ahn (Center for Exotic Nuclear Studies / IBS) Research Activities and Future Opportunities with Rare Isotope Beams	
15:40 ~ 16:00 (20)		Coffee Break	
16:00 ~ 16:25 (25)	Prof. Ji-Gwang Hwang (Gangneung-Wonju Natl. Univ.)	Dr. Chang-Bum Kim (PAL / POSTECH) Status of PLS-II and PAL-XFEL	5F Grand Hall
16:25 ~ 16:50 (25)		Prof. Hyeongmin Jin (SNUH) Current Status of SNUH Heavy Ion Therapy Gijang Center	
16:50 ~ 17:15 (25)		Dr. Hyeok-Jung Kwon (KOMAC / KAERI) Operation Status of KOMAC Linac	
17:15 ~ 18:00 (45)		Exhibitor / Sponsor Lightning Talks	

Day 2

Time	Chair	November 14 (Thu)	Hall
09:00 ~ 10:20 (80')		Parallel Sessions (WG1)	5F Grand Hall
		Parallel Sessions (WG3, Korean Session)	4F Emerald Hall
		KOPIA	4F Ruby Hall
10:20 ~ 10:40 (20')		Coffee Break	
10:40 ~ 12:00 (80')		Parallel Sessions (WG1)	5F Grand Hall
		Parallel Sessions (WG3, Korean Session)	4F Emerald Hall
		KOPIA	4F Ruby Hall
12:00 ~ 13:00 (60')		Lunch	4F Sapphire Hall
13:00 ~ 14:30 (90')	Drs. Yong-Seok Lee (PAL / POSTECH), Hyun Chang Jin, Kyung-Tae Ko (KBSI) and Jun Kue Park (KOMAC / KAERI)	Poster Session (ICABU Best Presentation Awards)	2F Poster Hall
14:30 ~ 15:50 (80')		Parallel Sessions (WG2)	5F Grand Hall
		Parallel Sessions (WG4) & KOPIA (Korean Session)	4F Ruby Hall
15:50 ~ 16:10 (20')		Coffee Break	
16:10 ~ 17:30 (80')		Parallel Sessions (WG2)	5F Grand Hall
		Parallel Sessions (WG4) & KOPIA (Korean Session)	4F Ruby Hall
18:00 ~ 21:00 (180')	Dr. Chang-Ki Min (PAL / POSTECH)	Banquet	4F Sapphire Hall

Day 3

Time	Chair	November 15 (Fri)	Hall
09:00 ~ 09:30 (30')	Dr. Chang-Bum Kim (PAL / POSTECH)	Dr. Max Kneß (SaxonQ GmbH) Application of Ion Irradiation for Quantum Computing: Implantation of Nitrogen Containing Molecules and Sulfur for the Realization of Spin Qubit Registers in Diamond Working at Room Temperature	5F Grand Hall
09:30 ~ 10:00 (30')		Prof. Inhyuk Nam (Ulsan National Institute of Science and Technology) Toward Ultra-bright X-ray Pulses at PAL-XFEL	
10:00 ~ 10:25 (25')		Dr. Dong-O Jeon (IRIS / IBS) Status of the RAON Heavy Ion Accelerator	
10:25 ~ 10:50 (25')		Dr. Hyung Joong Yun (KBSI) The Status and Plan of Korea 4th Generation Storage Ring Project	
10:50 ~ 11:10 (20')		Coffee Break	
11:10 ~ 12:00 (50')	Prof. Moses Chung (POSTECH)	Oral Poster	5F Grand Hall
12:00 ~ 12:10 (10')	Dr. Chang-Ki Min (PAL / POSTECH)	Closing Remarks	
13:00 ~ 16:30 (210')		Technical Tour	

WG1 Program (Day2) - Accelerator Systems

Time	Chair	Working Group 1	Hall
09:00 ~ 09:20 (20')	Dr. Han Sung Kim (KOMAC / KAERI)	Mr. Sehyun Bae (POSTECH) Non-Evaporable Getters Plasma Activation Study	5F Grand Hall
09:20 ~ 09:50 (30')		Dr. Chunguang Jing (Euclid Techlabs LLC) Ultrafast Ferroelectric Based Tuning for Microphonics Suppression in SRF Cavities	
09:50 ~ 10:20 (30')		Dr. John Power (Argonne National Laboratory) Overview of Structure Wakefield Acceleration at Argonne National Laboratory	
10:20 ~ 10:40 (20')		Coffee Break	
10:40 ~ 11:00 (20')	Dr. Hyung-Jin Kim (IRIS / IBS)	Dr. Junho Han (Kiswire Advanced Technology Co., Ltd.) The fabrication of the 1.3 GHz Single-cell Cavity Using Niobium Materials with Varied Grain Sizes	5F Grand Hall
11:00 ~ 11:20 (20')		Dr. Young-gi Song (KOMAC / KAERI) Development of EPICS-based DAQ System for Real-time Data Acquisition During Beam and RF Operation	
11:20 ~ 11:40 (20')		Dr. Ji-Ho Jang (IBS) Beam Commissioning Results of the RAON Superconducting Linac with Argon Beams	
11:40 ~ 12:00 (20')		Dr. Manwoo Lee (Dongnam Institute of Radiological & Medical Sciences) Development and Application of C-band LINACs at DIRAMS Research Center	

WG2 Program (Day2) - Beam Physics, Diagnostics & Novel Techniques

Time	Chair	Working Group 2	Hall
14:30 ~ 14:55 (25')	Prof. Seong Hee Park (Korea Univ. Sejong)	Dr. Siwon Jang (PAL / POSTECH) Development of High-Precision Beam Position Monitor for the Korea-4GSR project	5F Grand Hall
14:55 ~ 15:10 (15')		Mr. Woojin Song (POSTECH) Design of an X-ray Ionization Beam Profile Monitor for the Korea-4GSR	
15:10 ~ 15:30 (20')		Dr. Jimin Seok (PAL / POSTECH) Updates of Korea-4GSR Impedance Modeling and Instability Studies	
15:30 ~ 15:50 (20')		Dr. Eunkyong Shin (Gangneung-Wonju Natl. Univ.) Beam Dynamics Study for RF Tolerance Estimation in Korea-4GSR	
15:50 ~ 16:10 (20')		Coffee Break	
16:10 ~ 16:35 (25')	Dr. Hyun Chang Jin (KBSI)	Dr. Myunghoon Cho (PAL / POSTECH) Development of FEL Code to Simulate the Integrated Undulator Line	5F Grand Hall
16:35 ~ 16:55 (20')		Dr. Ki Moon Nam (POSTECH) Analysis of Tune Shift Dynamics Near the Third Integer Resonance	
16:55 ~ 17:15 (20')		Dr. JangWon Kwon (IRIS / IBS) Measurement Results of Ar ⁹⁺ Beam Using Diagnostic Device During RAON Commissioning	
17:15 ~ 17:30 (15')		Mr. Hyeon Woo Lee (Korea Univ. Sejong) Study on Electron Injection in Laser Wakefield Acceleration with Plasma Structures of Metal-Layered Target	

WG3 Program (Day2) - Beamline and Instrumentation

Time	Chair	Working Group 3 (Korean Session)	Hall
09:00 ~ 09:20 (20')	Dr. Kyung-Tae Ko (KBSI)	Dr. Jae-Hong Lim (PAL / POSTECH) Design of Initial Phase Beamlines at the Korea Fourth-Generation Storage Ring (Korea-4GSR)	4F Emerald Hall
09:20 ~ 09:40 (20')		Dr. Bongho Kim (Center for Underground Physics / IBS) The Status of the GBAR Experiment	
09:40 ~ 10:00 (20')		Dr. Seongjin Heo (IRIS / IBS) Status of RFQ Cooler Buncher for Rare Isotope Experiments with Isotope Separation On-Line system	
10:00 ~ 10:20 (20')		Dr. Yongjun Park (PAL / POSTECH) Industrial Research Application of PLS-II 8D Beamline	
10:20 ~ 10:40 (20')		Coffee Break	
10:40 ~ 11:00 (20')	Prof. Moses Chung (POSTECH)	Prof. Jeong-jeung Dang (Korea Institute of Energy Technology) Fundamental Diagnostics Results of KOMAC 100 MeV Linac Neutrons Using Neutron Activation System	4F Emerald Hall
11:00 ~ 11:20 (20')		Dr. Kye-Ryung KIM (KAERI) Reconstruction of an External Beam PIXE Beamline Using 1.7 MV Tandem Accelerator	
11:20 ~ 11:40 (20')		Dr. Byeong-Gwan Cho (KBSI) Resonant X-ray Emission Spectroscopy Studies for Energy Materials	
11:40 ~ 12:00 (20')		Working Group 3 Discussion	

WG4 & KOPUA Program (Day2) - Applications of Particle Beams

Time	Chair	Working Group 4 & KOPUA (Korean Session)	Hall
10:20 ~ 10:30 (10')	Sunghwan KIM (Cheongju University)	Opening Address Prof. Kyung-Soo Nam (KOPUA, Dongguk Univ.), Dr. Jae-Sang Lee (KOMAC/KAERI)	
[KOPUA Session] 10:30~11:30 (60')	Yun Hee Shon (Kyungpook National University)	[KT-1] Dr. Sunmog Yeo (KAERI) Transient Superhydrophilic Surface Modification of Polyimide by Metal Ion Beam Irradiation [KT-2] Prof. Seung Jeong Noh (KAPRA, Seoul National University) Proton Fusion Reactions Under High Temperature: Finding a New Sun [KT-3] Dr. JeongMin Park (KAERI) Development of Flexible Radiation Detector Based of Nanomaterials	4F Ruby Hall
11:30 ~ 11:50 (20')		KOPUA General Meeting	
11:50 ~ 12:00 (10')		KOPUA 2024 Group Photo Taking	
12:00 ~ 13:00 (60')		Lunch	
13:00 ~ 14:30 (90')	Sang-Wook Han (Jeonbuk Natl. Univ.)	[KOPUA Poster Session]	
[Parallel session (WG4) & KOPUA] 14:30~15:50 (80')	Hong-Ju Kim (Kyungpook National University)	[KT-4] Dr. Gi Wan Jeon (KOMAC / KAERI) Synthesis of ZnO Thin Films Using the Sol-Gel Method and Ion Beam Irradiation [KT-5] Prof. Kwanpyo Kim (Yonsei University) Structural Control and Electrical Property Modulation of γ -GeSe via Ion Beam Implantation	4F Ruby Hall
	Seung Jeong Noh (KAPRA, Seoul National University)	[KT-6] Dr. Hui Ho Vanessa Chang (Inha University) Reduced Set-Shifting Processing Speed in Male Rats Following Exposure to Low (10 cGy) Doses of Proton Radiation [KT-7] Dr. Jun Kue Park (KAERI) Defects Engineering in Shallow Acceptors in $Zn_{0.8}Al_{0.2}O$ alloy via N^+ ion Beam Irradiation	
		Coffee Break	
15:50 ~ 16:10 (20')		Dr. Kyungho Kim (Korea Institute of Science and Technology Information) RAON Beam Simulation Using Geant4	4F Ruby Hall
16:10 ~ 16:30 (20')		Dr. CHAE EON KIM (Proton Therapy Center, NCC) The Necessity of Medical Physics Research on Rare Isotope Accelerator Complex for ON-line Experiments (RAON) Low-Energy Beamline for Biomedical Experiments	
16:30 ~ 16:50 (20')	Sang-Wook Han (Jeonbuk Natl. Univ.)	Mr. Jeongtae Kim (Kumoh National Institute of Technology, KAERI) Effects of Proton Irradiation on SnO_2 -based Thin-film Transistors	
16:50 ~ 17:10 (20')		Ms. Hyeyun Chung (Pusan National University) Effects of He-ion Beam Implantation on Physical Properties of Si Doped Ga_2O_3	
17:10 ~ 17:30 (20')		Closing Address	
17:30 ~ 17:40 (10')			