

Scientific Program of ICABU2022

▶ November 9 (WED)

13:00~	Registration Start of post Posters
13:30~13:50	[Opening Session] Opening & Welcome Address, Photo Taking #1
13:50~14:30	[PT-1] Kyung Tae Ko (KBSI) Overview of 4GSR-Multipurpose Synchrotron Radiation Construction Project
14:30~15:10	[PT-2] Seunghwan Shin (Korea University) Ongoing Projects and Issues of 4th generation Storage Ring
15:10~15:30	[IT-1] Gao-Yu Hsiung (National Synchrotron Radiation Research Center, Taiwan) Vacuum Design and Technical Development for the Taiwan Photon Source toward the Future Light Source
15:30~15:50	Coffee Break
15:50~16:10	[IT-2] Moses Chung (UNIST) Overview of fusion-like neutron sources based on high-intensity linear accelerators
16:10~16:30	[CT-2] Young Seok Hwang (KOMAC/KAERI) Accelerator Facilities at KOMAC for Advanced Applications
16:30~16:50	[CT-3] Nguyen Duy Quang (Kyungpook Nat'l Univ.) Proton response of a 1.5-inch trans-stilbene scintillator for lunar surface fast neutron investigation
16:50~17:10	[CT-1] Manish Kumar (PAL) Structural phase transition and electronic structure of epitaxial VO ₂ thin films prepared on a-Al ₂ O ₃ substrate

▶ November 10 (THU)

09:00~09:40	[PT-3] Yongjoong Lee (Oak Ridge Nat'l Lab.) Technology Challenges in High Power Spallation Targets Development
09:40~10:00	[CT-6] Jong-Won Kim (IBS) Commissioning results of a 70 MeV proton cyclotron system of IBS
10:00~10:20	Coffee Break
10:20~11:00	[PT-4] Bjoern Keune (RI Research Instruments GmbH) RF-cavities - State of the art for the synchrotrons of the future
11:00~11:20	[CT-4] Alexei Sytov (NFN) Crystal-based positron source for future lepton colliders
11:20~11:40	[CT-5] Holger Holtermann (BEVATECH) Technical Design of an IH-type buncher for KoBRA at RAON
11:40~12:00	[CT-10] Yoo Lim Cheon (KFE) Space-charge-driven halo formations and their mitigation via beam spinning in high-intensity linear accelerators
12:00~13:30	Lunch
13:30~14:10	[PT-5] Stefan Facsko (HZDR) Ion beam modification and ion beam analysis in current materials research
14:10~14:30	[IT-4] Seong-Tae Han (KERI) Accelerator and Beam Related Technologies of the Electrophysics Research Center with the Korea Electrotechnology Research Institute
14:30~14:50	[CT-7] Yaowaluk Tariwong (Nakhon Pathom Rajabhat Univ.) Luminescence, optical, compositional and structural investigations of natural ruby
14:50~15:00	Coffee Break
15:00~15:40	[PT-6] Ji-Ho Jang (IBS) Initial Beam Commissioning Results of RAON Linac
15:40~16:00	[CT-8] Kevin Insik Hahn (IBS) Detector and device developments for RI nuclear physics by CENS
16:00~16:20	[CT-9] Byungsik Hong (Korea University) Current status of LAMPS at RAON
16:20~16:30	Coffee Break
16:30~16:50	[CT-12] Jaeman Son (SNUH) SNUH Project Status and Heavy Ion Therapy System
16:50~17:10	[CT-13] Jaeseok Yang (Nat'l Cancer Center) Experience of the operation and maintenance of the Proton Therapy System in National Cancer Center, Korea
17:10~17:30	[CT-14] Yong-Seok Lee (PAL) Preliminary design of RF system for Korea 4GSR
17:30~17:50	[CT-11] Alexei Sytov (INFN) Future DESY II Booster Synchrotron proof-of-principle experiment for a crystal-based extraction of electrons
17:50~18:00	Coffee Break
18:00~21:00	Banquet
	[ATE Tutorial] (20:00~22:00) Tutorial for FEL Simulation: Myunghoon Cho (PAL)

► KOPUA 2022 Session: November 10 (THU)

10:20~10:30	[Opening Address] Prof. Kyung-Soo Nam (KOPUA/Dongguk Univ.) Dr. Jae-Sang Lee (KOMAC/KAERI)
[KOPUA Session 1]	[KT-1] Prof. Jong-Ki. Kim (Daegu Catholic Univ.) Medical application of proton stimulation therapy
10:30~11:30	[KT-2] Prof. Eun-Ho Kim (Daegu Catholic Univ.) Tumor-treating fields as a Proton beam-Sensitizer for Glioblastoma Therapy
	[KT-3] Prof. Bo-Keun. Ha (Chonnam Nat'l Univ.) Plant mutation breeding using the proton-beam irradiation in Korea
11:30~12:00	KOPUA General Meeting
12:00~12:10	KOPUA 2022 Group Photo Taking
12:10~13:30	Lunch
13:30~14:00	[KOPUA Poster Session]
	[KT-4] Prof. Sunghwan Kim (Cheongju Univ.) Energy Calibration of Particle Dosimeter on the Moon using High Energy Proton Beams
[KOPUA Session 2]	[KT-5] Prof. Jakrapong Kaewkhao (Nakhon Pathom Rajabhat University, Thailand) Dy3+doped Na2O-Gd2O3-Al2O3-P2O5 glass scintillator: X-rays and proton responses
14:00~15:20	[KT-6] Prof. In-Kwon Yoo (Pusan Nat'l Univ.) A detector research & development using the KOMAC
	[KT-7] Prof. Yu-Seok Kim (Dongguk Univ.) Introduction of CO2, Produced from Fossil Fuel to Analyze Radiocarbon Dating Using AMS in Dongguk University
15:20~15:40	Coffee break
[KOPUA Session 3]	[KT-8] Prof. Sangjoon Ahn (UNIST) Compatibility demonstration of centrally shielded burnable absorber imbedded UO2-U3Si2 fuel for soluble-boron-free i-SMR development
15:40~16:40	[KT-9] Dr. Sung-Jae Chang (ETRI) Mechanisms of Device Degradation Induced by Proton Irradiation in the GaN-based MIS-HEMTs
	[KT-10] Dr. Jongkuk Kim (KIMS) Stabilization of FCVAS Based Hybrid Coating System for Deposition of tetrahedral amorphous Carbon(ta-C) Films and its Applications
16:40~16:50	Closing Address
16:50~18:00	Executive Meeting

► November 11 (FRI)

09:00~09:40	[TT-3] Nigel Orr (LPC-Caen) High-Energy Radioactive Beams and Systems beyond the Neutron Dripline	
09:40~10:00	[IT-5] Gi Jeong Chun (SNUH) Recent update in peptide receptor-targeted radionuclide therapy in Korea : as a theranostics approach	
10:00~10:20	Coffee Break	
10:20~11:00	[CT-15] Wasu Cheewasukhanont (Nakhon Pathom Rajabhat Univ.) Investigation of Luminescence & Radiation Shielding Properties via the Borosilicate Glass System for Multi-Function Applications	
11:00~12:30	[FR-1] Pilsoo Lee (KOMAC) Facility Report: KOMAC in 2022 [FR-2] Chang-Bum Kim (PAL) Status of PLS-II and PAL-XFEL [FR-3] Seung-Woo Hong (RISP/IBS) Overview and Status of RAON	
12:30~13:30	Lunch	
13:30~14:30	Poster Session (Author Attendance is Mandatory)	Facilities Tour (KOMAC/PAL)
14:30~15:30	Best Poster Presentation	

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