

The 26th International Conference on Accelerators and Beam Utilizations

Thursday, November 14, 2024

ICABU Poster Session - 2F Poster Hall (1:00 PM - 2:30 PM)

-Conveners: Jun Kue Park; Yong-Seok Lee; Kyung-Tae Ko; Hyun Chang Jin

[id] title	presenter	board
[3] Design improvements of Electron Gun for PAL Klystrons	PARK, Sung-Ju	WG1-01
[4] Modeling a Cosine-Theta Dipole Magnet with Flat-Shaped Superconducting Coils Using the Constant Perimeter Approach	Mr BAICK, Geunmyeong	WG1-02
[5] Interlock system for the injector for RAON	AHN, Yujung	WG1-03
[9] Reinstallation of heavy HWR-B Cryomodule for SCL3 beamline maintenance	Dr CHOI, ChulJin	WG1-04
[10] Heat Dissipation Mechanisms of Superconducting Cavities	KIM, Heetae	WG1-05
[11] Design and Experiment of a 28 GHz 10 kW Gyrotron System for Electron Cyclotron Resonance Ion Source	HONG, Jonggi	WG1-06
[12] Development of Cryostat with Radiation Shielding for 28 GHz Superconducting Electron Cyclotron Resonance Ion Source	HONG, Jonggi	WG1-07
[15] Development of a 500 MHz High-Power Solid State Power Amplifier (SSPA) Based on GaN Transistors	KIM, Hyojin	WG1-08
[16] Implementation of EPICS based Control System for RFT-30 Cyclotron	KONG, YOUNG BAE	WG1-09
[17] Implementation of LLRF System for RFT-30 Cyclotron	KONG, YOUNG BAE	WG1-10
[22] Evaluation of Plasma Behavior in an 14.5 GHz ECR Ion Source in RAON	HEO, JEONGIL	WG1-11
[23] Development of a Web-Based KOMAC Operational Logbook System	CHO, Sung-Yun	WG1-12
[24] Development of LDMOS-based Solid-State Power Amplifiers for the heavy ion accelerator	BAE, Sangyoon	WG1-13
[30] Design and Beam Off-Line Performance Evaluation of the Machine Protection System for the RAON	KWON, eunsang	WG1-14
[31] Status of Dipole-Quadrupole (DQ) magnet design for Korea 4GSR	Dr CHUN, Inwoo	WG1-15
[32] Development of a 20 kW High-Power Combiner Using the Gysel Combiner Method	SON, Ki Taek	WG1-16
[46] Test and Operation of the RF Reference System for the RAON Low-energy Superconducting Linac	SEOL, Kyungtae	WG1-17
[49] Implementation of the Control Systems for the 1.7 MV Tandem Accelerator and beamlines at KOMAC	KIM, Jae-ha	WG1-18
[54] 4GSR Storage Ring Permanent Magnet Dipole(LGBM)	KIM, Beom Jun	WG1-19
[56] Conceptual Design of HTS Saddle Coil Winding Machine with 5-axis Robotic Arm	HAHN, Garam	WG1-20
[58] Development of mitigation system of vacuum breakdown using external magnetic fields	BAHNG, Jungbae	WG1-21
[63] Implementation and low power test of 3rd harmonic cavity proto type for Korea-4GSR	Mr KIM, Yuncheol	WG1-22

[72] Development of the Cavity Resonance Control System for Low-energy Superconducting Linac at RAON Accelerator	JANG, Hyojae	WG1-23
[75] Infrastructure Design for RAON Beam Operation Information Transmission	PARK, Mijeong	WG1-24
[76] Design of a compact gantry with high energy acceptance for carbon-ion cancer therapy	OH, bonghoon	WG1-25
[78] LLRF integrated control system for continuous beam provision of RAON heavy ion accelerator	LEE, Sang-Gil	WG1-26
[82] Mass production and performance test of SCL3 cryomodule for RAON	KIM, Youngkwon	WG1-27
[84] Development and Performance Testing of a 1.2 MV DC Power Supply for an Electrostatic Tandem Proton Accelerator in Accelerator-Based Boron Neutron Capture Therapy	PARK, Chawon	WG1-28
[85] Recent Progress in Off-line Test Facility Experiments for the RAON ISOL Ion Sources	HAN, Je Hwan	WG1-29
[87] Understanding Superconducting Cavities with the Least Action Principle	KIM, Heetae	WG1-30
[89] Nanosecond laser pulse train generation with fs timing and beam diameter controls.	GO, Namseok	WG1-31
[90] Improvement of Resonance Frequency Control Mode in Resonance Control Cooling System at KOMAC	KIM, Kyunghyun	WG1-32
[109] Development Status of new 3-MeV RFQ for KOMAC	Dr KIM, Han-Sung	WG1-33
[110] Design Consideration of the Power Couplers for the Single-Spoke Resonators in Institute for Rare Isotope Science	YOON, Junyoung	WG1-34
[112] Performance study of high heating power magnetron through special combination of a solid-state pulse modulator and an external heating power supply	KIM, Hyun	WG1-35
[119] Analysis of Field Emission Characteristics in Superconducting Cavities	JEON, Sungmin	WG1-36
[127] Design of Fast Bunch Switching Line in PAL-XFEL	HEO, Hoon	WG1-37
[132] Electromagnetic analysis of accelerating cell for 200 MeV separated drift tube linac in KOMAC	PARK, Sungbin	WG1-38
[133] Design of the Korea-4GSR Machine Interlock System	KIM, Yunho	WG1-39
[134] Design of the Korea-4GSR Timing system	PARK, sohee	WG1-40
[137] Design of the Korea-4GSR Fast Orbit Interlock system	YU, Jinsung	WG1-41
[138] Commissioning of the RAON RFQ for User Proposals and Experiments	PARK, Bum-Sik	WG1-42
[141] Muon linac for the muon g-2/EDM experiment at J-PARC	OTANI, Masashi	WG1-43
[146] Development of a Prototype Fast Orbit Feedback System for the 4GSR.	Dr NAM, Seung-Hee	WG1-44
[148] Brazing Characteristics on Vertical Joints with Silver Copper Eutectic Alloy Ag72Cu28 for RFQ Section Brazing Stage	KIM, Kyunghyun	WG1-45
[161] Mechanical behavior of synchrotron accelerator storage ring girder system based on gravity load and vibration Energy	Dr HONG, Gwang-Wook	WG1-46
[162] Fault Detection using Pulse Reconstruction with CVAE in the KOMAC High-power Systems	Mr KIM, Gi Hu	WG1-47
[164] Radiation Shielding Aspects and Monte Carlo Analysis of the 4th Generation Storage Ring in Korea	BAKHTIARI, Mahdi	WG1-48
[115] Study on improving Fluence measurement accuracy with real-time monitoring using in-air AC Current Transformer	KIM, Yu-Mi	WG2-01

[7] Characterization of Electron Beam Transverse Emittance at PAL-eLABs Using the Quadrupole Scan Technique	Mr LEE, Hee-Won	WG2-02
[8] Optimization of Beam Quality Along the Second Hard X-ray Beamline at PAL-XFEL: A Study Using the Simplex Method and Bayesian Optimization	Mr JANG, Won	WG2-03
[14] Design and Optimization Study of the linac for Fourth generation storage ring Using MOGA	KIM, Chanmi	WG2-04
[18] P - Modeling and Simulation of Carbon Dioxide Plasma in RF Ion Sources Performance for Ion Beam Applications	PARK, Sae-Hoon	WG2-05
[26] Simulation result of button type Beam Position Monitor based on beam energy of RAON	KWON, Jang Won	WG2-06
[39] Development Status of Beam Loss Monitor for Korea 4GSR	SHIN, Bokkyun	WG2-07
[48] Analysis of multipole components in the electromagnets of next-generation storage rings and beam dynamics in storage rings	KIM, DongHyuck	WG2-08
[67] A Space Charge Compensation Study for Matched Positive Ion Beams in a Low-Energy Beam Transport Line	COSGUN, Emre	WG2-09
[69] Optimization of Korea-4GSR Booster Lattice for Increasing Dynamic Aperture Using Multi-Objective Genetic Algorithm	KIM, JunHa	WG2-10
[92] Simulation Study of Ion Effects in Korea-4GSR	NAM, Ki Moon	WG2-11
[98] Estimation of collimator performance for the Korea-4GSR	JANG, GYEONGSU	WG2-12
[99] A Comparative Analysis of Neutron Flux from $p(7\text{Li},n)7\text{Be}$ and $7\text{Li}(p,n)7\text{Be}$ Reactions for the Neutron Radiography Facility of BIBA by Using MCNP6.2 Code	LEE, Taekyu	WG2-13
[103] Parameter Optimization of Passive Harmonic Cavity and Analysis of Robinson Instability based on the PLS-II Lattice	PARK, Youngmin	WG2-14
[104] Simulation Study of LINAC with Thermionic Gun for Fourth-Generation Storage Ring	BYEON, Woo Jun	WG2-15
[108] Design and simulation of an iris-loaded RF deflecting cavity for the PAL-eLABs	KIM, Geunwoo	WG2-16
[113] A New Simulation Framework for Optimizing Beam Dynamics and Analyzing Data in High Current Cyclotrons	PARK, Chong Shik	WG2-17
[114] Optimization of Booster to Storage Ring Transport Using Nonlinear Kicker Magnet: A Simulation Study	PARK, Chong Shik	WG2-18
[123] Eddy current effect in a booster ring of Korea-4GSR	Dr LEE, Yumi	WG2-19
[126] Optimizing beam configuration and envelope to maximize the wakefield generated by sub-THz Power Extraction Tube	SEO, Minkyu KIM, Keonho	WG2-20
[130] Bunch lengthening due to dual harmonic cavities of different orders in PLS-II	KIM, Jun-hyoung	WG2-21
[131] Electron bunch shaping by laser heater for reduced XFEL pulse duration	MOON, KOOKJIN	WG2-22
[147] Development of an Absolute Coordinate Calibration Device for Beam Profile Monitor	YOON, Juhwan	WG2-23
[159] Two-stage amplification of hard X-ray FEL using fresh-slice with wakefield from corrugated structure	SUNG, Chang-Kyu	WG2-24
[160] Phase space tomography with wire scanner at KOMAC BTS	MOON, SeokHo	WG2-25
[28] Implementation of high power RF auto start logic for 100 MeV proton linac at KOMAC	JEONG, Hae-Seong	WG3-01

[29] Magnetic field measurement status of magnets for the Korea-4GSR storage ring	CHOI, Yoongeol	WG3-02
[71] Antiproton beam manipulation for the GBAR experiment	LEE, Byungchan	WG3-03
[95] Optimizing Electron Beam Orbit and Injection Stability for Compact Synchrotron Light Sources	KIM, Keonho	WG3-04
[117] Apparent Anti-resonance in X-ray Fluorescence Spectroscopy	Prof. CHO, Deok-Yong	WG3-05
[121] Current status of CLaSsy for the laser spectroscopy at RAON	LIM, Chaeyoung	WG3-06
[118] Simulation-driven Design for Increasing Neutrons with The Low Dispersion Using Neutron Supermirrors	Dr JANG, Yongsik	WG3-07
[124] Development of a Segmented Capillary for Inner Plasma Density Control and High Repetition-Rate Plasma Generation in Wakefield Acceleration Experiments	JEONG, Junyeong	WG3-08
[19] Evaluation of Chemical Pretreatment Methods using Accelerator Mass Spectrometry for Environmental Sample Analysis	LEE, Seung Won	WG4-01
[40] Exploration of single-atom alloy nanocatalysts for high-performance ammonia electrooxidation	CHO, Juhyun	WG4-02
[35] Enhancing Alkaline Hydrogen Evolution Reaction Performance via Controlling Surface Distortion of FeRu Nanoparticles	LEE, Gwanho	WG4-03
[44] Comparative analysis of delivered and planned doses in target volumes for lung stereotactic ablative radiotherapy	YU, GEUM BONG	WG4-04
[45] Role of Grain Boundaries in Oxygen Reduction Reaction within Pt-Co Nanowires	KIM, jungki	WG4-05
[57] Measurement of Proton-Induced Reaction Cross-Sections on Natural Titanium and Vanadium with 100 MeV Protons	JUNG, Myung-Hwan	WG4-06
[61] MCNP Calculation of Cherenkov Radiation for Dosimetry of Ultra-High Dose Rate FLASH Beams	JANG, Kyoung Won	WG4-07
[66] Temperature Dependence of Strain-Induced Modulation on Magnetic and Orbital Properties in Ferromagnetic Insulating La_{0.88}Sr_{0.12}MnO₃ Thin Films	Mr HWANG, Byung-Jun	WG4-08
[43] Measurement and analysis of three-dimensional magnetic field distribution of prototype compact permanent magnet for C-band magnetron	PARK, Wunghoa	WG4-09
[77] Calculation of optimal shielding thickness for a LINAC-based prototype self-shielded X-ray irradiator for radiotherapy research	Dr JEONG, Dong Hyeok Dr JANG, Kyoung Won	WG4-10
[79] A Simple Daily QA Method for PBS Proton Therapy Using Patterned Phantoms and EBT3 Film	LEE, Young Kyu	WG4-11
[37] Vertically Aligned β-NiOOH Nanosheet as Highly Active and Stable Catalytic Sites for Oxygen Evolution Reaction in Alkaline Media	KIM, Jeonghyeon	WG4-12
[47] Boosted Ethanol Electrooxidation Using Rh Single Atom Decorated Pt Nanocubes	PARK, Saehyun	WG4-13
[59] Structurally denatured BSA using small-angle X-ray scattering	MALIKI, Siti Khadijah	WG4-14
[25] Study of improved Surface Conductivity of Ceramics by Ion Implantation	Mr LIM, jae seok	WG4-15
[96] Effect of carbon-ion range by different stopping-power tables calculated in Geant4	LEE, Sung Hyun	WG4-16
[97] Initial operation of vacuum brazing system for manufacturing small accelerator components built at DIRAMS	KANG, Sangkoo	WG4-17
[101] Enhancing Dose Uniformity in Passive Scattering Proton Therapy for Small Tumors via Beam Current Modulation	AHN, Sung Hwan	WG4-18

[120] Development of Multi-Purpose Metal Ion Source for Use of Different Materials Bonding	Dr KIM, BomSok	WG4-19
[142] Dosimetric Evaluation of Large-area Proton Minibeam Radiation Therapy System for Clinical Applications	Dr KIM, Jusung	WG4-20
[165] A Study on Enhancing Multi-Radioisotope Identification in CsI(Tl) Gamma Spectra Using 2D Convolutional Neural Networks	Dr KIM, Yong Hyun	WG4-21