

[MD1] Nuclear Instrumentation and Methodology	
Date / Time	September 7 (Mon.), 2026 / 13:00~15:00
Place	Room D (Segyero Room 3)
Chairpersons	Prof. Inyong Kwon (Yonsei University), Dr. Junhyeok Kim (Korea Atomic Energy Research Institute)

[MD1_1] 13:00~13:20

A Novel Radiation-Hardened Dual-Conversion Transmitter Architecture for Stable 2.4 GHz Wireless Communication

Muhammad Adeel Anwar^{1,2}, Koo Seo Ryong^{1,2}, Inyong Kwon³

¹Korea Atomic Energy Research Institute, ²University of Science and Technology, ³Yonsei University

[MD1_2] 13:20~13:40

Development of a Unified UAV-Radiation Measurement System based on a Tiltrotor VTOL Platform for Airborne Radiological Survey

Eunjoong Lee, Chang-Jong Kim, Hyuncheol Kim, Mee Jang

Korea Atomic Energy Research Institute

[MD1_3] 13:40~14:00

Feasibility Study of Photon-Counting Computed Tomography Using a Hyperspectral Pixelated Detector

Hwijoon Jeong¹, Sukwon Youn¹, Taeyun Kim¹, Mingi Eom^{1,2}, Sung-Joon Ye^{1,2}

¹Seoul National University, ²T-ROH Inc.

[MD1_4] 14:00~14:20

Construction and Implementation of a New FPGA-Based TDCR System at KRISS for the Primary Standardization of Pure Beta Emitters

Agung Agusbudiman^{1,2}, Kyoung Beom Lee¹, Jong Man Lee¹, Byoung Chul Kim¹, Dong Hye Heo¹, Tae Hee Kim¹

¹Korea Research Institute of Standards and Science, ²National Research and Innovation Agency (BRIN)

[MD1_5] 14:20~14:40

HPGe Gamma Spectrometry of Archived Irradiated Pressure-Tube Specimens from Wolseong Unit 1 CANDU Reactor: Residual Activation Inventory and Verification of CASE Source-Term Calculations

Seongpyo Hong, Gwang-Min Sun

Korea Atomic Energy Research Institute

[MD1_6] 14:40~15:00

Temperature Compensation for a NaI(Tl)-Based Decontamination Effluent Monitoring System

Seungil Kim, Seoryeong Park, Minho Kwak, Sangbok Lee, Gihun Hwang, Jeasung Kwon, Sangyong Kim

Neosiskorea Co., Ltd.