

Poster Session

[Poster Session 01]

Session Date:	Sept. 10 (Wed.), 2025
Session Time:	16:00 ~ 17:30
Session Room:	Room 104

WP_1

Investigation on Retarded Coarsening Behavior in B-added Co-Based Superalloys

K. N. Yoon¹, K. W. Seo², E. S. Park²

¹University of California, Berkeley, ²Seoul National University

WP_2

Property Tuning of Metallic Glass with Different Initial Structure by Annealing-Based Structure Control

M. J. Lee¹, G. H. Yoo¹, W. H. Ryu², K. W. Seo¹, E. S. Park¹

¹Seoul National University, ²Kumoh National Institute of Technology

WP_3

In-Situ Neutron Diffraction Study on the Mechanical Behavior and Deformation Mechanisms of Metallic Materials at Ultra-Cryogenic Temperatures

Y. S. Kim¹, H. Chae¹, W. Woo¹, S. Harjo², S. Y. Lee³

¹Korea Atomic Energy Research Institute, ²Japan Atomic Energy Agency, ³Chungnam National University

WP_4

Evaluation of Hydrogen Embrittlement in Welded 316L Stainless Steel for Cryogenic Applications

Tae Uk Kang¹, You Sub Kim¹, Soo Yeol Lee²

¹Korea Atomic Energy Research Institute, ²Chungnam National University

WP_5

Neutron Diffraction Studies Using the Residual Stress Instrument at HANARO: Applications and Beamtime Proposal Process

H. Chae, W. Woo

Korea Atomic Energy Research Institute

WP_6

Evaluation of Neutron Shielding Efficiency of Boron-Added Stainless Steel

Eunjoo Shin, T. J. Kim, J. Y. Kim, W. C. Woo, H. B. Chae

Korea Atomic Energy Research Institute

WP_7

Evaluation of Hydrogen Embrittlement in TIG Welded 304L Stainless Steel

W. Tongprapai¹, Y. S. Kim², J. Y. Jung¹, D. H. Lee¹, H. Chae², W. Woo², S. Y. Lee¹

¹Chungnam National University, ²Korea Atomic Energy Research Institute

WP_8

Probing Temperature-Dependent Deformation Mechanisms in High-Mn Steels via In Situ Neutron Diffraction

Taeho Lee¹, Ke An², Soo Yeol Lee¹

¹Chungnam National University, ²Oak Ridge National Laboratory

WP_9

Determination of Neutron Attenuation Coefficients for Gadolinium-Containing Neutron Absorber Materials

J. Kwon, Y-S. Han, Y-B. Chun, J-M. Kim, S. Jung

Korea Atomic Energy Research Institute

WP_10

Characterization of the Strain-induced Martensitic Transformation in Novel TRIP Ti-6Al-4V Based Alloys via Neutron Beam Diffraction Analysis

K.W.Seo, D.H. Kim, E.S.Park

Seoul National University

WP_11

Development of Analysis Method of Cobalt and Europium in Soil Using ICP-MS

Mingi Park^{1,2}, Jihye Lee¹, Hyeonggon Kim¹, Seung Woo Lee^{1,2}, Yuvin Kim^{1,3}, Gyeongmin Lee⁴, Ina Do⁵, Jiseok Kim¹

¹Korea Atomic Energy Research Institute, ²Hanyang University, ³Chungnam National University, ⁴Jeonbuk National University, ⁵Yonsei University

WP_12

Development of 3D-Scan-Based Radioactivity Measurement for a Complex Source-Detector Geometry in Gamma Spectrometry

Jihye Lee^{1,2}, Seung Woo Lee¹, Mingi Park¹, Yuvin Kim¹, Ina Do³, Gyeongmin Lee⁴, Hyeonggon Kim¹, Jiseok Kim¹

¹Korea Atomic Energy Research Institute, ²Korea Advanced Institute of Science and Technology, ³Yonsei University, ⁴Jeonbuk National University

WP_13

Application of Quality by Design(QbD) in Automated ¹³¹I-mIBG Production: Ensuring Product Quality and Minimizing Occupational Radiation Exposure

Yumi Jung, Eun-ha Cho, Yoo-hwang Lee, Jae-won Lee, Seung-Jae Lee

Korea Atomic Energy Research Institute

WP_14

Development of an HPLC-Based Analytical Method for Quality Evaluation of I-131 mIBG

E.H. Cho¹, Y.M. Jung¹, W.Y. Cho², W. Lee²

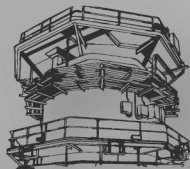
¹Korea Atomic Energy Research Institute, ²Woosuk University

WP_15

Optimization of Silver Fixation on Alumina via Reduction Time and Thermal Oxidation Control for Effective Iodine Removal under Alkaline Conditions in ⁹⁹Mo Production

B.G. Park, J.H. Kim, S.S. Lee, S.K. Lee

Korea Atomic Energy Research Institute



WP_16

Quality Assurance and Testing Framework for Radiopharmaceuticals: KAERI's Path toward MFDS Certification

H.J. Ahn, S.S. Nam, Y.E. Lee, T.G. Lee, Y.M. Jung, E.H. Cho

Korea Atomic Energy Research Institute

WP_17

A Review of Case Studies on the Characteristics of Radioactive Soil Contamination in Nuclear Facilities

H.J. Ahn, S.S. Nam, M. Yoo, K.S. Woo, S.S. Lee, S.K. Lee

Korea Atomic Energy Research Institute

WP_18

Preliminary Study on Experimental Production of Fission Mo-99 based on Depleted Uranium Target in HANARO Radioisotope Production Facility

J.H. Kim, M.G.B.G.B.N.L. Yoo, S.S. Lee, J.B. Kim, K.S. Woo, S.K. Lee, S.W. Yang

Korea Atomic Energy Research Institute

WP_19

A Novel Approach for Personalized Hand Dose Assessment Using Whole-Body 3D Scanning and Monte Carlo Simulation

Ina Do¹, Jihye Lee², Mingi Park^{2,3}, Ji Won Choi¹, Woori Cho¹, Yeon Soo Yeom¹, Jiseok Kim²

¹*Yonsei University*, ²*Korea Atomic Energy Research Institute*, ³*Hanyang University*

WP_20

Design and Preliminary Assessment of On-Site Generation of Short-Lived Radiotracers with Portable D-D Neutron Generator

J. Park, J. Moon, S.H. Jung

Korea Atomic Energy Research Institute

WP_21

Mitigation of Radioxenon from the Fission Mo-99 Production Process for KJRR

Suseung Lee, Seung-Kon Lee, Mal-Go-Bal-Gae-Bit-Na-La Yu, Kyungseok Woo, Jin-Hee Kim, Jun Sig Lee

Korea Atomic Energy Research Institute

WP_22

Operational Requirements and Licensing Status of Shift Personnel at HANARO

Wonho In, Jinwon Shin, Minsu Kim, Cheongwon Kim

Korea Atomic Energy Research Institute

WP_23

Cooling Margin Analysis of the Helium Refrigeration System for the CNS under Variable HANARO Reactor Power Conditions

J.S. Hwang, W.T. Lee

Korea Atomic Energy Research Institute

WP_24

Automating CAD-to-MCNP Conversion of Pipe Models Using Mathematical Vector Operations

Yuvin Kim^{1,2}, Jihye Lee², Hyeonggon Kim², Mingi Park^{2,3}, Seung Woo Lee^{2,3}, Gyeongmin Lee⁴, Ina Do⁵, Jiseok Kim²

¹*Chungnam National University*, ²*Korea Atomic Energy Research Institute*, ³*Hanyang University*, ⁴*Jeonbuk National University*, ⁵*Yonsei University*

WP_25

The Plan of the CNS (Cold Neutron Source) HRS (Helium Refrigeration System) Redundancy about Control System

M.W. Lee, K.C. Kim, J.S. Hwang, W.T. Lee, Y.S. Choe

Korea Atomic Energy Research Institute

WP_26

Effect of Control Rod Position on Neutron Detectors for Reactor Control and Corresponding Thermal Power in HANARO

C.K. Min, D.H. Lee

Korea Atomic Energy Research Institute

WP_27

Comparative Evaluation of HANARO Gaseous Effluent Monitoring Practices with NRC Regulatory Guide 1.21 Requirements

W.T. Lee, G.A. Kim, S.G. Doo, M.S. Kim, N.K. Kim, C.D. Lee, B.H. Hwang, J.S. Hwang

Korea Atomic Energy Research Institute

WP_28

Introduction to Activities Enhancing Structural Safety for the Research Reactor HANARO

B.H. Hwang, C.D. Lee, W.T. Lee, M.H. Jung, S.P. Lee, M.S. Kim

Korea Atomic Energy Research Institute

WP_29

Development of a Program for Analyzing Interdependencies and Revision Impact of HANARO Operating Procedures

Sungtaek Hong, Hyunjin Kwon, Donghyuk Lee, Cheongwon Kim

Korea Atomic Energy Research Institute

WP_30

Evaluation of Safety Performance Indicators of HANARO Research Reactor during 2020-2024

H.S. Jung, H.K. Kim, C.W. Kim

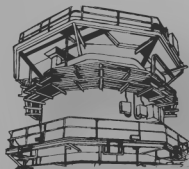
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WP_31

Synthesis and Manufacture of Yttrium-90 Based Radiolabeled Peptide

S.Y. Lee, J.C. Lim

Korea Atomic Energy Research Institute



[Poster Session 02]

Session Date:	Sept. 11 (Thu.), 2025
Session Time:	16:00 ~ 17:00
Session Room:	Room 104

TP_1

Evaluating Neutron Shielding Efficiency of Concrete Samples Using Research Reactor HANARO

J. Kim, B.Y. Han, G.M. Sun

Korea Atomic Energy Research Institute

TP_2

Surface and Interface Science Using Neutron Reflectometer REF-V at HANARO

June Hyuk Lee

Korea Atomic Energy Research Institute

TP_4

Characterization of Mixed Radiation Fields in the HANARO Ex-core Facility via Coupled MCNP-PHITS/DCHAIN Simulations and Comparison with LiF TLD and Gold Foil Measurements

Junyoung Lee¹, Sangmin Lee², Jongyul Kim³, Jinhwan Kim³, Byung-gun Park³, Young Soo Han³, Jeonghun Oh¹, Sung-Joon Ye¹

¹Seoul National University, ²Yonsei University, ³Korea Atomic Energy Research Institute

TP_5

25 years of Neutron Imaging Applications in Irradiated Nuclear Fuel, Paleontology Aircraft Turbine Blade, and Agriculture.

C.M. Sim

Korea Atomic Energy Research Institute

TP_6

Effect of Moisture on Perovskite Structure: A Neutron Reflectivity Study

Sumin Lee, Yujin Oh, Young-un Jeon, Seulki Song, Jaseung Koo

Chungnam National University

TP_7

Neutron Reflectometry Analysis of Water Interaction in HTL/Perovskite Bilayer Structures

Y. J. Oh¹, S. M. Lee¹, Y. U. Jeon¹, J. H. Lee², S. K. Song¹, J. S. Koo¹

¹Chungnam National University, ²Korea Atomic Energy Research Institute

TP_8

Small-Angle Scattering Study on the Nanostructural Behavior of PFSA Ionomers in Solvents of Varying Composition

D. C. Yang, T. H. Kim

Jeonbuk National University

TP_9

Study on the Nanostructure of PFSA Membranes with Temperature Variation Using SANS

Eunjo Shin¹, Jun Hyun Lim², Chang Hyun Lee², T. J. Kim¹

¹Korea Atomic Energy Research Institute, ²Dankook University

TP_10

Observation of Topological Suppression of Autophobicity between Chemically Identical Polymers via Neutron Reflectivity

Seong Eun Kim¹, Dogyun Kim¹, Se Hwa Park¹, Tae Yeon Kong¹, June Hyuk Lee², Kyoung Taek Kim¹, So Youn Kim¹

¹Seoul National University, ²Korea Atomic Energy Research Institute

TP_11

High-Resolution Interface Study of Epitaxial L1₀-FeNi Thin Film Using Neutron Reflectivity

Jun-Cheol Park, Van Quang Nguyen, Byung-Hyuk Jun, June Hyuk Lee

Korea Atomic Energy Research Institute

TP_12

A Preliminary and Simplistic Exercise of Cost-Benefit Analysis of HANARO, Only Considering Publications

J. M. S. Park¹, J. P. Hong^{1,2}

¹Korea Atomic Energy Research Institute, ²Seoul National University

TP_13

Influence of Binder State on Slurry Microstructure: Adsorbed vs. Free Sodium Carboxymethyl Cellulose in Graphite Slurries

E. H. Gwag¹, M. H. Kim², S. Y. Kim¹

¹Seoul National University, ²Korea Institute of Science and Technology

TP_14

Study on Highly Ordered Self-Assembly of BNNT-Surfactant Composites Induced by Electrostatic Interaction

S.W. Jeon¹, C. Do², S.Y. Moon³, J.D. Jang¹, S.H. Lee¹, T.H. Kim³

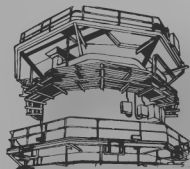
¹Korea Atomic Energy Research Institute, ²Oak Ridge National Laboratory, ³Jeonbuk National University

TP_15

Overcoming the Limitation of Polymer Synthesis via GMDH AI-Simulation

Jong Dae Jang¹, Junhyung Bae²

¹Korea Atomic Energy Research Institute, ²Daegu Catholic University



TP_16

Tuning MXene Pathways via Silver Nanoparticle Size Variations for Anode-Free Battery Applications

Sangho Lee¹, Jong Dae Jang¹, Seokjae Hong¹, Hyungsub Kim^{1,2}, Sangwoo Jeon¹, Hyeong Min Jin³

¹Korea Atomic Energy Research Institute, ²Chungbuk National University, ³Chungnam National University

TP_17

Study on the Quantum Dot-Polymer Composites

Jong Dae Jang¹, Sangho Lee¹, Sangwoo Jeon¹, Young Soo Han¹, Tae-Hwan Kim²

¹Korea Atomic Energy Research Institute, ²Jeonbuk National University

TP_18

Experiments of 40m SANS at HANARO

Jong Dae Jang, Sangho Lee, Sang Woo Jeon, Young Soo Han

Korea Atomic Energy Research Institute

TP_19

Frequency-Domain Inverse Design of Single-Absorption Gratings for Enhanced Neutron Dark-Field Imaging

Y.M. Heo¹, S.W. Lee¹, Y.J. Kim², D.S. Kim¹, J.H. Won¹, J.Y. Son¹, S.H. Lee¹

¹Pusan National University, ²Korea Atomic Energy Research Institute

TP_20

Parameter Optimization for Energy-Selective Neutron Imaging at a Thermal Neutron Beamline via McStas Simulation

J.Y. Son, D.S. Kim, J.H. Won, Y.M. Heo, S.H. Lee, S.W. Lee

Pusan National University

TP_21

Effects of Elemental Impurities on Radioactivation in Surrogate Metal Components

Gyeongmin Lee¹, Hayoung Sim¹, Yeijin Bang¹, Sunlee Shin¹, Jiseok Kim², Hee Seo¹

¹Jeonbuk National University, ²Korea Atomic Energy Research Institute

TP_22

Feasibility Study on Deep Learning-Based Composition Analysis of Black Powder from Recycled Batteries Using Neutron Activation Spectra

B. Jeon

Korea Atomic Energy Research Institute

TP_23

1.7 MV Tandem Accelerator-Based External Beam PIXE Beamline Construction Status for Cultural Heritage Analysis

K.R. Kim, Y.G. Song, J.H. Kim, H.S. Kim, H.J. Kwon

Korea Atomic Energy Research Institute

TP_24

Ex-Core Test-Based Performance Evaluation of Customized Rabbit Systems for Pneumatic Transfer System Diagnosis in HANARO

Seongpyo Hong¹, Sung Hyo Lee¹, Kishore B. Dasari^{1,2,3}, Bo-Young Han¹, Gwang-Min Sun¹

¹Korea Atomic Energy Research Institute, ²Gyeongsang National University, ³Korea Research Institute of Standards and Science

TP_25

X-ray Ghost Imaging with an Untrained Neural Network

Sangho Lee¹, Junhyeok Kim², Jisung Hwang^{1,3}, Jaehyun Park¹, Gyohyeok Song¹, Deokseong Kim¹, Gyuseong Cho¹

¹Korea Advanced Institute of Science and Technology, ²Korea Atomic Energy Research Institute, ³Korea Institute of Nuclear Safety

TP_26

Comparative Analysis of Crack Density of As-Received Type 304 SS and Type 316 SS According to Slow Strain Rate Test Using IASCC Test Laboratory (ITL) Mock-Up

Sung Hwan Cho, Sung Woo Kim

Korea Atomic Energy Research Institute

TP_27

Irradiation Test of Self-Powered Neutron Detectors in the 115th Cycle of the HANARO

JongWoo Kim, YeEun Na, JuneSic Park, SeongWoo Yang, HaeSun Jung, KeeNam Choo, SungJae Park, YoonTaeg Shin, ChulYong Lee

Korea Atomic Energy Research Institute

TP_28

Materials and Life Science Experimental Facility at J-PARC

Kenji Nakajima and Staff of Members of MLF, J-PARC

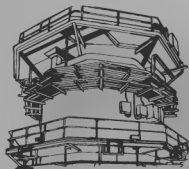
J-PARC Center

TP_29

Crystallographic and Magnetic Properties of $\text{Co}_{0.2}\text{Zn}_x\text{Ni}_{0.8-x}\text{Fe}_2\text{O}_4$ Spinel Ferrites by Neutron Diffraction

M. S. Aktar, S. Hossain, J. Maudood, M. S. Islam

Bangladesh Atomic Energy Commission



[Poster Session 03]

Session Date:	Sept. 12 (Fri.), 2025
Session Time:	14:20 ~ 15:20
Session Room:	Room 104

FP_1

Replacement of Aging Neutron Guide Tubes in the Cold Neutron Research Facility of HANARO

J. Kim, S. Cho, Y. Kim, S. Kim, M. K. Moon, T. Kim, Y. Kim

Korea Atomic Energy Research Institute

FP_2

Structural Analysis of Co-doped Mg_2Sn Thermoelectric Material Using White Neutron Holography

A. Fujimori¹, T. Igawa¹, R. Suzuki¹, K. Abe¹, M. Takita¹, M. Ito¹, S. Sugano¹, K. Oikawa², M. Harada², Y. Inamura², K. Hayashi³, Z. Huang⁴, Y. Miyazaki⁴, K. Hayashi⁴, K. Ohoyama¹

¹Ibaraki University, ²Japan Atomic Energy Agency, ³Nagoya Institute of Technology, ⁴Tohoku University

FP_3

Probing Critical Magnetic Behavior in CeNiGe_3 Using 6G-TOPAN at JRR-3

O. Nawashirobashi, Y. Ikeda, M. Fujita

Tohoku University

FP_4

Towards the World's First Practical Application of Magnetic Scattering Holography

T. Igawa¹, M. Chou², R. Suzuki¹, A. Fujimori¹, K. Abe¹, M. Takita¹, M. Ito¹, S. Sugano¹, S. Takahashi³, R. Kobayashi⁴, S. Takada^{4,5}, T. Okudaira^{4,6}, M. Okuizumi^{4,6}, S. Kawamura^{4,6}, T. Oku^{1,4}, K. Oikawa⁴, Y. Tuchikawa⁴, M. Harada⁴, Y. Inamura⁴, K. Hayashi², K. Ohoyama¹

¹Ibaraki University, ²Nagoya Institute of Technology, ³The University of Tokyo, ⁴Japan Atomic Energy Agency,

⁵Tohoku University, ⁶Nagoya University

FP_5

Observation of Hydrogen in Palladium Hydride Using White Neutron Holography

K. Abe¹, M. Takita¹, T. Igawa¹, R. Suzuki¹, A. Fujimori¹, M. Ito¹, S. Sugano¹, M. Harada², K. Oikawa², Y. Inamura², S. Ajito³, E. Akiyama³, S. Orimo³, K. Hayashi⁴, K. Ohoyama¹

¹Ibaraki University, ²Japan Atomic Energy Agency, ³Tohoku University, ⁴Nagoya Institute of Technology

FP_6

Low-Temperature Deformation Testing System Combined with Digital Image Correlation for In-Situ Neutron Diffraction

T. Kawasaki, W. Gong, T. Ito, K. Aizawa, S. Harjo

Japan Atomic Energy Agency

FP_8

Improving Underestimation Issues in Low-Altitude Regions in Radiation Ambient Dose Equivalent Estimation for Flight Crews Using a Bayesian Approach

Hyeonggon Kim^{1,2}, Jiseok Kim¹, Seung Woo Lee², Mingi Park², Yuvin Kim³, Jihye Lee⁴, Gyeongmin Lee⁵, Ina Do⁶

¹Korea Atomic Energy Research Institute, ²Hanyang University, ³Chungnam National University, ⁴Korea Advanced Institute of Science and Technology, ⁵Jeonbuk National University, ⁶Yonsei University

FP_9

Optimization of Viewing Geometry for Enhanced Neutron Tomography of Coin Cell Batteries

Sangho Lee¹, Junyoung Son¹, Daeseung Kim¹, Junhyeok Won¹, Yumin Heo¹, Jong Min Lee², A. Kaestner², Seung Wook Lee¹

¹Pusan National University, ²Paul Scherrer Institute

FP_10

Crystal Structural Phase Transition and Magnetic Fluctuations of $\text{Pr}_3\text{Tr}_4\text{Sn}_{13}$ ($\text{Tr} = \text{Co}, \text{Rh}$)

N. Osano¹, K. Tsuge¹, K. Iwasa¹, T. Kumada¹, K. Suzumura¹, Y. Uramoto¹, K. Miyata¹, Y. Nakazawa¹, T. Sawada¹, H. Watanabe¹, K. Kuwahara¹, D. Okuyama², H. Sagayama², H. Nakao², M. Ishikado³, H. Kikuchi⁴, S. Asai⁴, T. Masuda⁴

¹Ibaraki University, ²High Energy Accelerator Research Organization, ³Comprehensive Research Organization for Science and Society, ⁴The University of Tokyo

FP_11

Chiral Structural Phase Transition and Magnetic Ordering in $\text{Gd}_3\text{Tr}_4\text{Sn}_{13}$ ($\text{Tr} = \text{Co}, \text{Rh}, \text{Ir}$)

K. Suzumura¹, K. Iwasa¹, T. Kumada¹, W. Kurosawa¹, Y. Suzuki¹, Y. Uramoto¹, K. Kuwahara¹, K. Ohoyama¹, H. Sagayama³, H. Nakao³, D. Okuyama³, M. Ishikado⁴, R. Sugiura⁴, T. Nakajima⁴

¹Ibaraki University, ²High Energy Accelerator Research Organization, ³Comprehensive Research Organization for Science and Society, ⁴The University of Tokyo

FP_12

Activity of Tohoku University Neutron Spectrometers and Diffractometer at JRR-3, Japan

M. Fujita

Tohoku University

FP_13

Neutron Science and Technology for Cultural Heritage at HANARO

Y. Kim, J. Kim, T. Kim, H. Chae, W. Woo, E. Shin

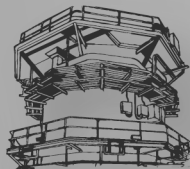
Korea Atomic Energy Research Institute

FP_14

Local Noncentrosymmetry and Magnetic Properties in the Remeika-Phase Compounds $\text{Eu}_3\text{Tr}_4\text{Sn}_{13}$ ($\text{Tr} = \text{Rh}, \text{Ir}$)

Takanobu Kumada¹, Yotaro Suzuki¹, Ami Shimoda¹, Hiromasa Imazeki¹, Wataru Kurosawa¹, Kazuaki Iwasa¹, Keitaro Kuwahara¹, Kenji Ohoyama¹, Akinori Hoshikawa¹, Hajime Sagayama², Daisuke Okuyama², Hironori Nakao², Motoyuki Ishikado³, Toru Ishigaki³, Yusuke Nambu⁴

¹Ibaraki University, ²High Energy Accelerator Research Organization, ³Comprehensive Research Organization for Science and Society, ⁴Tohoku University



FP_15

Local Structural Analysis around Rare Earth Elements of $(\text{Ce}_{0.7}\text{La}_{0.3})\text{B}_6$

M. Ito¹, M. Takita¹, S. Sugano¹, K. Abe¹, T. Igawa¹, R. Suzuki¹, A. Fujimori¹, N. Happon², J. Stellhorn³, K. Hayashi⁴, K. Kuwahara¹, K. Ohoyama¹

¹Ibaraki University, ²Hiroshima City University, ³Shimane University, ⁴Nagoya Institute of Technology

FP_16

Local Structural Analysis of the Phosphorescent Phosphor Eu-Doped CaF_2 around Eu by Atomic Resolution Holography

S. Sugano¹, M. Ito¹, R. Suzuki¹, T. Igawa¹, A. Fujimori¹, K. Abe¹, M. Takita¹, M. Kitaura², K. Kim³, K. Kamada³, T. Nakanishi⁴, N. Happon⁵, K. Hayashi⁶, K. Ohoyama¹

¹Ibaraki University, ²Yamagata University, ³Tohoku University, ⁴National Institute for Materials Science, ⁵Hiroshima City University, ⁶Nagoya Institute of Technology

FP_17

Doping Effect to the Lattice in Rare Earth Doped-RB₆

M. Takita¹, K. Abe¹, T. Igawa¹, R. Suzuki¹, A. Fujimori¹, S. Sugano¹, M. Ito¹, N. Happon², J.R. Stellhorn³, F. Iga¹, K. Hayashi⁴, K. Ohoyama¹

¹Ibaraki University, ²Hiroshima City University, ³Shimane University, ⁴Nagoya Institute of Technology

FP_18

Water Vapor Uptake into Hygroscopic Liquids in Capillaries: Neutron Radiography Study

Hyeonjun An¹, Youngtak Koo¹, Youngju Kim², Jongyul Kim², TaeJoo Kim², Joonwoo Jeong¹

¹Ulsan National Institute of Science and Technology, ²Korea Atomic Energy Research Institute

FP_19

Local Structure Analysis of Sm^{3+} ions in $\text{CaF}_2:\text{Sm}$ Phosphorescent Phosphors by Atomic-Resolution Holography

R. Suzuki¹, T. Igawa¹, A. Fujimori¹, K. Abe¹, M. Takita¹, M. Ito¹, S. Sugano¹, Y. Inamura², K. Oikawa², M. Harada², M. Kitaura³, K. Kim⁴, K. Kamada⁴, T. Nakanishi⁵, N. Happon⁶, K. Hayashi⁷, K. Ohoyama¹

¹Ibaraki University, ²Japan Atomic Energy Agency, ³Yamagata University, ⁴Tohoku University, ⁵National Institute for Materials Science, ⁶Hiroshima City University, ⁷Nagoya Institute of Technology

FP_20

Adsorption Properties at the Air/Water Interface and Aggregation Properties for Surfactant and Diglycerol Derivatives Mixtures by NR and SANS

M. Abe^{1,2}, A. Habuka³, T. Yamada³, R. Toyoshima³, S. Yada⁴, T. Yoshimura², N.L. Yamada¹

¹High Energy Accelerator Research Organization, ²Nara Women's University, ³Sakamoto Yakuhin Kogyo Co., Ltd., ⁴Tokyo University of Science