

6. 제6분과 : 방사선 이용 및 방호

제 6 분과 A	방사선 이용 및 방호-특별기획세션 :Better Resolution Higher Efficiency	좌 장 김용균 · 이 윤 발표장소 중원
일 정	논 문 제 목	저자명 및 소속
10.27(목)		
09:00	Desktop Microtomography with a CMOS Pixel Detector	Ho Kyung Kim and Min Kook Cho (PNU) Sung Sik Lee (Safe Tech)
09:20	Solid State Thick Film X-ray Image Sensor	Yun Yi, Sun Woo Yuk, Shin Woong Park, and Sun Ung Kim (KU) Ki Hyun Kim (SPC)
09:40	New LiF : Mg, Cu, Si, TL Material (New KLT-300) with a Low Residual Signal and High Thermal Stability	Jang-Lyul Kim, Jung-Il Lee, and Si-Young Chang (KAERI)
10:00	SiC Bulk Semi-insulating Semiconductor Detector for an Alpha Radiation	Jang Ho Ha, Yong Kyun Kim, Se Han Park, Sang Mook Kang, and Jung Bok Kim (KAERI)
10:20	Poster 논문 소개 (P06B01~P06B015_ 소개자 : 하장호)	
10:40	Coffee Break	
11:00	Nano Second Beam Bunching System of KIGAM	G. D. Kim, W. Hong, H. W. Choi, J. K. Kim, H. R. Lee, and H. J Woo (KIGAM) Y. O. Lee and J. H. Chang (KAERI)
11:20	Characteristics of the ZnSe Scintillators Based on the II - IV Compound Semiconductor	W. G. Lee, Y. K. Kim, C. E. Chung, J. H. Ha, and S. H. Park (KAERI) J. K. Kim (iTRS)
11:40	Phantom Testing with a Single Source and a Detector for an Industrial CT System	Jong Bum Kim, Sung Hee Jung, and Jin Sup Kim (KAERI)
12:00	Neutron Field Spectrometry Using an Extended Bonner Sphere	Bong-Hwan Kim, Jong-Soo Kim, and Si-Young Chang (KAERI)
12:20	Compound Semiconductor Radiation Detector	Y. K. Kim, S. H. Park, W. G. Lee, and J. H. Ha (KAERI)

일 정	논 문 제 목	저 자 명 및 소 속
10.27(목)		
<b>P06B01</b>	Measurement of the Internal Organs' Absorption and Extracorporeal Excretion of Radioactive Iodine Fit to the Characteristics of Koreans	Junghoon Kim, Taeman Kim, and Jooho Whang (KHU)
<b>P06B02</b>	Sediment Transport Study in Haeundae Beach Using Radioisotope Labelled Compound	Jin-Seop Kim, Jong-Bum Kim, and Sung-Hee Jung (KAERI) Jong-Sup Lee (PNU)
<b>P06B03</b>	New Technique for Producing Therapeutic Radioisotope $^{89}\text{Sr}$	Suk-Kwon Kim and H. D. Choi (SNU)
<b>P06B04</b>	Study for the Analysis of the Performance of the Wolsong-1 PHT Upgrader	K. M. Song, S. H. Sohn, and D. W. Kang (KEPRI) D. J. Yoon, S. Y. Hong, and T. G. Ha (KHNP)
<b>P06B05</b>	Development of Self-luminous Glass Tube (SLGT) Manufacturing Technology	KwangSin Kim, Kyeongsook Kim, Eun-Su Chung, Kyu-Min Song, Sook-Kyung Lee, and Soon Hwan Son (KEPRI)
<b>P06B06</b>	Production of Sulfur-35 by the Cation Exchange Process	Ik Soo Kim, Seung Im Kwak, Ul Jae Park, Hong Sik Bang, and Hyun Soo Han (KAERI)
<b>P06B07</b>	The Applicability of DTPA Derivative for Renal Function Diagnosis and Intravascular Brachytherapy	Ok-Ja Choi, Young-Don Hong, Sang-Moo Choi, and Sun-Ju Choi (KAERI)
<b>P06B08</b>	Proton Beam Monitoring by Activation Analysis for Medical Radioisotopes	J. H. Kim, S. K. Kim, H. Park, J. S. Lee, and K. S. Chun (KIRAMS)
<b>P06B09</b>	An Evaluation of Effective Atomic Number in Compton Scattering System Using Low-energy Gamma Rays	Tran Kim Tuan, Chang-ho Shin, and Jong Kyung Kim (HYU) Soon Young Kim (iTRS)

일 정	논 문 제 목	저자명 및 소속
10.27(목)		
<b>P06B10</b>	Study on Characteristic of CdZnTe Semiconductor Detectors for Alpha Particle Measurement	Sang Mook Kang, Jang Ho Ha, Yong Kyun Kim, Se Hwan Park, Han Soo Kim, and Chong Eun Chung (KAERI)
<b>P06B11</b>	Fabrication of the CdZnTe Detector for $\gamma$ -ray Measurement	S. H. Park, Y. K. Kim, H. S. Kim, and J. H. Ha (KAERI)
<b>P06B12</b>	Study on Material Discrimination by Atomic Number Using Dual Energy $\gamma$ -Rays	Y. M. Gil, Y. S. Lee, H. S. Lee, M. H. Cho, and W. Namkung (POSTECH)
<b>P06B13</b>	Development of Web Monitoring Radiation Area Monitor	Hoon Jin Jung, Jun Hee Lee, Phil NamKoong, Dong Hoon Lee, Su Hong Lee, and Gun Bae Lee (Iijin Rad)
<b>P06B14</b>	Electron Beam Induced Radiation Damage of the Semiconductor Radiation Detector Based on Silicon	Han Soo Kim, Yong Kyun Kim, Se Hwan Park, Jang Ho Ha, Sang Mook Kang, and Chong Eun Chung (KAERI) Seung Yeon Cho, Ji Hyun Park, and Tae Hyung Yoon (YSU)
<b>P06B15</b>	DNA Damage of Melanoma Cells B16F0 Treated with Boron Compounds After Neutron Irradiation	Ki-Jung Chun and Won Sook Seo (KAERI)

일 정	논 문 제 목	저자명 및 소속
10.28(금)		
09:00	Neutron Research in HANARO	Hark Rho Kim (KAERI)
09:20	Opportunities and Noble Information for Industries from the Elastic Neutron Scattering in HANARO	Yong Nam Choi, Eunjoo Shin, Shin Ae Kim, Chang-Hee Lee, adn Baek Seok Seong (KAERI)
09:40	Electronic Properties of LaSrCoO <sub>3</sub> Alloys Studied by High-resolution Neutron Diffraction	J. Y. Kim, Y. J. Yoo, K. K. Yu, and Y. P. Lee (HYU) K. W. Kim (SMU) K. P. H ong (KAERI)
10:00	Preparation Status of Inelastic Neutron Scattering in HANARO	Chang-Hee Lee (KAERI)
10:20	Poster 논문 소개 (P06E01~P06E07_소개자 : 한영수)	
10:40	Coffee Break	
11:00	Inelastic Neutron Scattering Studies of Strongly Correlated Electron Systems	Je-Geun Park (SKKU)
11:20	Application of Small Angle Neutron Scattering and Neutron Reflectometer in Metals and Alloys	B. S. Seong, E. J. Sin, Y. S. Han, J. S. Lee, H. R. Kim, and Y. J. Kim (KAERI)
11:40	In Situ & Real-time Characterization of Bio-mimetic Thin Films : Neutron Reflectivity Study	Kwanwoo Shin (GIST)
12:00	Research on Dynamic Neutron Radiography in HANARO	In-Cheol LIM, Jae-Eun CHA, Tae-Ju KIM, and Chul-Muu SIM (KAERI)
12:20	Neutron Tomography Application for Aircraft-parts and Root of Ginseng	Yi-Kyung Kim, Seung-wook Lee, Chul-mu Sim, Jin-su Jeon, and Tae-ju Kim (KAERI)
12:40	Determination of Thermal Neutron Radiative Capture Cross Section and Ko Factors of <sup>6</sup> Li	Chang Su Park and H. D. Choi (SNU) Gwang Min Sun (KIRAMS)

일 정	논 문 제 목	저자명 및 소속
10.28(금)		
09:00	Bremsstrahlung Photons in KIRAMS Electron Microbeam Cell-irradiation System	G. M. Sun, E. H. Kim, M. Jang, and S. W. Bae (KIRAMS)
09:20	Comparison of Individual and Population Weighted Health Risks	Jongtae Jeong, Tae Woon Kim, and Jaejoo Ha (KAERI)
09:40	Analysis of Gamma Dose Rate Caused by Corrosion Products Inside the Containment Building of Yonggwang Nuclear Power Plant Unit 3 During Shutdown Period	Wi-Ho HA, Jae Cheon KIM, and Jong Kyung KIM (HYU) Soon Young KIM (iTRS)
10:00	Three Dimensional Thermoluminescence Emission Spectra of the LiF:Mg,Cu,Na,Si Thermoluminescent Materials	Jung-Il Lee, Jang-Lyul Kim, Jong-Soo Kim, and Si-Young Chang (KAERI)
10:20	Poster 논문 소개 (P06F01~P06F22_소개자 : 한문희 · 엄홍덕)	
10:40	Coffee Break	
11:00	Analysis of the Radiation Field for 100 MeV Beam Line of the PEEP	Cheol Woo LEE, Young-Ouk LEE, and Young-Sik CHO (KAERI)
11:20	Review of Radiological Emergency Initiation Criteria and Notification Method in Domestic PWR Plants	Sung Ki Bang, Nam Yong-Jae, Kim Il-Kee, and Lee Jae-Sung (KHNP)
11:40	Spatial Analysis and Modeling of Environmental Radiation Data	Juyoul Kim (FNC Tech)
12:00	Characterization of a Novel Ionizing Radiation-induced Nuclease	Ji-Hyun Lee, Eunhee Kim, Su-Jae Lee, Yun-Sil Lee, and Sangwoo Bae (KIRAMS)
12:20	Synthesis of Fluorine-18 Labeled Glucose-Lys-Arg-Gly-Asp-D-Phe as a Potential Tumor Imaging Agent	Kyo Chul Lee, Byung Seok Moon, Tae Hyun Choi, Jae Ho Jung, Gwang Il An, and Kwon Soo Chun (KIRAMS) Ji Sun Kim, Byung Chul Lee, Hyun Ju Sung, and Dae Yoon Chi (IHU)

일 정	논 문 제 목	저자명 및 소속
10.28(금)		
<b>P06E01</b>	Development of BTPS for BNCT Treatment Planning	Sang Hoon JUNG and Jong Kyung KIM (HYU) Chi Young HAN and soon Young Kim (ITRS) Sung Ho PARK (AMC)
<b>P06E02</b>	Modification of Prototype D-D Neutron Generator	In Jung Kim, Suk-Kwon Kim, Chang Su Park, Nam-Suk Jung, Hwa-Dong Jung, Ji-Young Park, Yong-Seok Hwang, and H. D. Choi (SNU)
<b>P06E03</b>	Quality Assessment of the $k_0$ -NAA Method by the Analysis of Biological and Environmental Certified Reference Materials	Ho Manh Dung (NRI, Vitnam) Jong Hwa Moon, Yong Sam Chung, and Hark Rho Kim (KAERI)
<b>P06E04</b>	Calibration of Neutron Measuring Instruments by $^{252}\text{Cf}$ Neutron Source	K. S Lim, B. H. Kim, and S. Y. Chang (KAERI)
<b>P06E05</b>	Comparison Study on the Noise Reduction Methods of Prompt Gamma Spectra	Yun-Hee Lee, Hee-Jung Im, Byung Chul Song, Yong-Joon Park, and Won Ho Kim (KAERI) JungHwan Cho (SMWU)
<b>P06E06</b>	Characterization of the NAA#3 Irradiation Hole at the HANARO Research Reactor for the $k_0$ -NAA Method	Ho Manh Dung (NRI, Vitnam) Jong Hwa Moon, Yong Sam Chung, and Hark Rho Kim (KAERI)
<b>P06E07</b>	The HANARO Neutron Reflectometer with Horizontal Sample Geometry	Chong Oh Lee and Kwanwoo Shin(GIST) Jeong Soo Lee, Chang-Hee Lee, Sang Jin Cho, and Kwang Pyo Hong (KAERI)

일 정	논 문 제 목	저자명 및 소속
10.28(금)		
<b>P06F01</b>	Implementation Test of Two-dosimeter Algorithm for More Precisely Estimating Effective Dose During Maintenance Periods at KNPPs	H. G. Kim, G. Park, T. Y. Kong, Y. H. Yang, and D. W. Kang (KEPRI) S. N. Seo, B. C. Lim, and S. C. Park (KHNP)
<b>P06F02</b>	Reduced Effects of Back-scattering by Composite Layer	Cho, Han Chol (Kostech Tech)
<b>P06F03</b>	Review on Establishing of Emergency Classification Grade at KAERI Nuclear Fuel Fabrication Facility	Goan Yup Lee, Byung Oui Khang, and Jong Tai Lee (KAERI)
<b>P06F04</b>	The Environmental Radiation Measurement and Analysis Around the KRR-1&2	Hee Reyoung Kim, Kun Ho Chung, Wannoo Lee, Mun Ja Kang, Young Hyun Cho, Geun Sik Choi, and Chang Woo Lee (KAERI)
<b>P06F05</b>	HSP25 Protects Radiation-induced Salivary Gland Damage	Hae-June Lee, Yoon-Jin Lee, Hee-Choong Kwon, Su-Jae Lee, Sangwoo Bae, and Yun-Sil Lee (KIRAMS) Sung-Ho Kim (CNU)
<b>P06F06</b>	Organ Specific Gene Expressions by Low Dose Radiation in C57BL/6 Mice	Woo-Jung Lee, Hae-June Lee, Sung Hee Hong, Sangwoo Bae, Su-Jae Lee, and Yun-Sil Lee (KIRAMS)
<b>P06F07</b>	Radioprotective Effects of Hairy Roots of Ginseng	Hyun Jung Woo and Jin Kyu Kim (KAREI) Eun Young Kim and Deok Cho Yang (CBNU)
<b>P06F08</b>	Differential Responses of Several Chemicals Including Boron-enriched Compounds in Gamma Ray-exposed Gliomas	Ji Hyang Kim, Ki-Jung Chun, and Jin Kyu Kim (KAERI)

일정	논문 제목	저자명 및 소속
10.28(금)		
<b>P06F09</b>	Theoretical Approach to Synergistic Interaction of Ionizing Radiation with Other Factors	Jin Kyu Kim (KAERI) Vladislav G. Petin (MRRC, Russia)
<b>P06F10</b>	Preliminary Study on the Internal Dosimetry Program for Carbon-14 at Korean CANDU Reactors	Kong, T. Y. Kim, H. G. Yang, H. Y. Park, and G. J. Lee (KAERI) Lee, G. J (CSU) Lim, B. C and Park, S. C (KHNP)
<b>P06F11</b>	Sensitivity of HANARO Stack Radiation Monitor for Iodine Measurement	Myong-Seop KIM, Young-Chil KIM, Chang-Kyung KIM, Chang-Woo SEOL, and Hyung-Sub LEE (KAERI)
<b>P06F12</b>	A Source Term Calculation for the APR1400 NSSS Auxiliary System Components Using the Modified SHIELD Code	Hong-Sik Park, Min Kim, Seong-Chan Park, Jong-Tae Seo, and Eun-Kee Kim (KOPEC)
<b>P06F13</b>	Site Area Zoning for the Radiation Shielding Design in the Conventional Facilities of PEFP	Yi-Sub Min, Kyeong-Jun Mun, Jun Yeon Kim, and Byung Ho Choi (KAERI) Suk Tae Yoo (KOPEC)
<b>P06F14</b>	Demonstration of the Atom Trap and Mass Spectrometry for the Detection of Sr Rare Isotopes	Kwand-Hoon Ko, Do-Young Jeong, Gwon Lim, Tae-Soo Kim, Dukhyeon Kim, and Hyung Ki Cha (KAERI) You-Kyoung Lim (CBNU)
<b>P06F15</b>	Development of Risk Assessment Simulator Using MACCS2 Code (RASUM)	Seok Won Hwang, Nam Chul Cho, Ho Jun Jeon, Gun Hyo Jung, and Moosung Jae (HYU)
<b>P06F16</b>	Application of Fuzzy Theory to Radiological Emergency Preparedness	Moonhee HAN, Hyojoon JEONG, Eunhan KIM, Kyungsuk SUH, and Wontae HWANG (KAERI)
<b>P06F17</b>	Role of NADPH Oxidase in Ionizing Radiation-induced Nuclear Damage	Kyung Mi Choi, Eun Sook Cho, Chang-Mo Kang, and Hong-Duck Um (KIRAMS)

일정	논문제목	저자명 및 소속
10.28(금)		
P06F18	Radio-adjuvant Effects of Ginsan on Murine Breast Carcinoma Xenografted Model	Ji-young Shim, Hyeog-Jin Son, Hyung-doo Kim, Young-soo Han, Yeon-sook Yun, and Jie-young Song (KIRAMS)
P06F19	Synergistic Interaction Between Ionizing Radiation and $\beta$ -lapachone Against Cancer Cells	Eun Kyung Choi (UOU) In-Mi Ji, Eun Jung Kim, Ji Seon Myung, and Heon Joo Park (IHU) Chang W. Song (Univ. of Minnesota)
P06F20	Spontaneous and Radiation-induced Micronucleus Frequencies in Low Dose Radiation-exposed Worker's Peripheral Blood Lymphocytes	Hee-Kyung Kwon, Hye-Jin Lee, Mi-Young Park, Hyun-Jin Park, Young-Hoon Ji, Ki-Sup Kim, Su-Jae Lee, Yun-Sil Lee, Chul-Koo Cho, Soo-Yong Choi, and Chang-Mo Kang (KIRAMS) Tae-Hwan Kim (KNU)
P06F21	Ionizing Radiation Induces PI3K-dependent JNK Activation for Amplifying Mitochondrial Dysfunction in Human Cervical Cancer Cells	Min-Jung Kim, Soon-Young Choi, Sangwoo Bae, Chang-Mo Kang, Yun-Sil Lee, and Su-Jae Lee (KIRAMS)
P06F22	Pro187Ser Polymorphism of NAD(P) H:Quinone Oxidoreductase 1 and Prognosis of Non-small Cell Lung Cancer After Radiation Therapy	Si Yeol Song, Sang Min Yoon, Seong Soo Shin, Seung Do Ahn, Jung Shin Lee, and Eun Kyung Choi (UOU) Heon Joo Park (IHU) Yun-Chul Hong, Jin Hee Kim, and Charn Il Park (SNU) Jong-Eun Lee (DNA Link)