

**Opening Ceremony**

Chair: Liye Liu

**10<sup>th</sup> ISORD Commemorative Speech**

Jong Kyung Kim, Hanyang University

08:30-09:00

**Opening Remarks**

Tetsuo Iguchi, Nagoya University;

Chan Hyeong Kim, Hanyang University;

Qun Liu, China Institute for Radiation Protection

**Plenary Session**

Chairs: Jong Kyung Kim, Liye Liu

09:00-09:30	<b>(TBD)</b> Ziqiang Pan, academican of Chinese Academy of Engineering (CAE)
09:30-10:00	<b>IRPA's Role in the System of Radiation Protection</b> Roger Coates, International Radiation Protection Association (IRPA)
10:00-10:30	<b>Group Photo &amp; Tea Break</b>
10:30-11:00	<b>The National Survey on Exposure to Natural Source of Radiation from Human Activities in China</b> Senlin Liu, China Institute of Atomic Energy (CIAE)
11:00-11:30	<b>New ICRP Mesh-type Reference Computational Phantoms for Radiation Protection Dosimetry and High-fidelity Deformation</b> Chan Hyeong Kim, Hanyang University
11:30-12:00	<b>Applicability of Cavity Ring-down Laser Spectroscopy to On-line Monitoring of Radiocarbon (<sup>14</sup>C) Released from Nuclear Facilities</b> Tetsuo Iguchi, Nagoya University

12:00-12:30	<b>R&amp;D of Cold Neutron Microscope</b> Xiaodong Zhang, China Institute for Radiation Protection (CIRP)
	<b>Lunch</b>

**Note:** Each presentation is supposed to be 30 mins including 5 mins for Q&A

**16 July, 2019**

**Great China Function Room**

### Plenary Session

Chairs: Xiaodong Zhang, Tetsuo Iguchi

14:00-14:30	<b>An Opportunistic Ride into New Radiation Measurement Technology</b> David K. Wehe, University of Michigan
14:30-15:00	<b>Overview of Radiation Transport Studies at INEST</b> Yican Wu, Institute of Nuclear Energy Safety Technology (INEST), Chinese Academy of Science
15:00-15:30	<b>Gaseous Detectors: Current and Future Development</b> Ioannis Giomataris, French Alternative Energies and Atomic Energy Commission (CEA)-Saclay
15:30-16:00	<b>Tea Break</b>
16:00-16:30	<b>A Rapid Method for Measuring Soil Potential Radon Concentration</b> Detao Xiao, University of South China
16:30-17:00	<b>Geant4 for Radiation Safety and Detection</b> Maria Grazia Pia, Italian National Institute of Nuclear Physics (INFN) & European Organization for Nuclear Research (CERN)
17:00-17:30	<b>The Process of Low-background Counting Facility in Jinping Underground Laboratory</b> Zhi Zeng, Tsinghua University

**Note:** Each presentation is supposed to be 30 mins including 5 mins for Q&A

**Parallel Session 1**  
**Radiation Detection Technology and Application &**  
**Radiation Dosimetry**

Chairs: Yong Kyun Kim, Jingjing Li

08:30-08:50 A-001	<p><b>Scintillation Performance of Ce doped <math>\text{Li}^6\text{RE}(\text{BO}_3)_3</math> (RE= Gd, Y, Lu) Crystals for Neutron Detection</b></p> <p>Guohao Ren, <i>Shanghai Institute of Ceramics, Chinese Academy of Sciences</i></p>
08:50-09:10 A-002	<p><b>A Dual-Particle Imager Based on Rotational Modulation Collimator (RMC)</b></p> <p>Geehyun Kim, <i>Sejong University</i></p>
09:10-09:30 A-003	<p><b>Research on the Fuel Elements Damage Monitoring Instrument</b></p> <p>Feng Xie, <i>Tsinghua University</i></p>
09:30-09:50 A-004	<p><b>In-situ Evaluation for Activated Concrete in the Accelerator Facility with Scintillation Type Gamma-ray Spectrometer</b></p> <p>Go Yoshida, <i>High Energy Accelerator Research Organization (KEK)</i></p>
09:50-10:10 A-005	<p><b>Study on Measurement Technology of Uranium Radioactivity Level in Low-level Wastewater Based on Ultra-low Level Liquid Scintillation Analyzer</b></p> <p>Ning Lv, <i>Xi'an Research Institute Hi-Tec</i></p>
10:10-10:30	<b>Tea break</b>
10:30-10:50 A-006	<p><b>Development of a Ventilated Protective Suit Implemented with Powered Air-purifying Respirator for Radioactive Contamination</b></p> <p>Guodong Li, <i>China Institute for Radiation Protection</i></p>
10:50-11:10 A-007	<p><b>Silicon PIN-photodiode and CsI (TI) Scintillator in Application to a Portable <math>\text{H}_p(3)</math> Dosimeter</b></p> <p>Yu Wang, <i>China Institute for Radiation protection</i></p>
11:10-11:30 A-008	<p><b>An Application Research of the Improved Multi-sphere Neutron Spectrometer</b></p> <p>Jianhua Wu, <i>China Institute of Atomic Energy</i></p>
11:30-11:50 A-009	<p><b>Study on Measurement of <math>^{239}\text{Pu}</math> in Urine Based on AMS</b></p> <p>Guowen Zheng, <i>China Institute of Atomic Energy</i></p>

Lunch

**Note:** Each presentation is supposed to be 20 mins including 5 mins for Q&A

17 July, 2019

Great China Function Room-Section 1

**Parallel Session 1**  
**Radiation Detection Technology and Application &**  
**Radiation Dosimetry**  
Chairs: Geehyun Kim, Guowen Zheng

14:00-14:20 A-O10	<b>Verification of Modified Sum-peak Method in Monte Carlo Simulation of Full Energy Peak and Sum-peak Efficiencies of AHPGe Detector</b> <i>Tsukasa Aso, National Institute of Technology, Toyama College</i>
14:20-14:40 A-O11	<b>Graphene-based Detector for X-ray Detection in Pulsar Navigation</b> <i>Yaojun Wu, QianXuesen Laboratory of Space Technology</i>
14:40-15:00 A-O12	<b>Continuous Liquid Radioactive Effluent Monitor</b> <i>Fu Shen, China Institute for Radiation Protection</i>
15:00-15:20 A-O13	<b>Initial Study on Treatment Plan Verification for Carbon Ion Radiotherapy by Using Gel Dosimetry</b> <i>Yinxiangzi Sheng, Shanghai Proton and Heavy Ion Center</i>
15:20-15:40	<b>Tea break</b>
15:40-16:00 A-O14	<b>Continuous Distribution of Adjoint Neutron Flux with Heterogeneous Nodes Obtained by Improved Variational Nodal Method</b> <i>Boning Liang, China Institute for Radiation Protection</i>
16:00-16:20 A-O15	<b>Development of a Radon Reduction System in the Low Background Shielding Room of the In Vivo Monitoring System</b> <i>Lijiao Wang, China Institute of Atomic Energy</i>
16:20-16:40 A-O16	<b>The Analysis on Containment Air Activity Monitoring Channel of ACP1000</b> <i>Hang Guo, Fujian Fuqing Nuclear Power Co.Ltd.</i>
16:40-17:00 A-O17	<b>A Rapid Screening Method for <sup>32</sup>P in Urine Samples Using TDCR Cerenkov Technique</b> <i>Yonggang Yang, China Institute for Radiation Protection</i>

**Note:** Each presentation is supposed to be 20 mins including 5 mins for Q&A

**18 July, 2019**

**Great China Function Room-Section 1**

**Parallel Session 1**  
**Radiation Detection Technology and Application &**  
**Radiation Dosimetry**  
**Chairs: Rui Qiu, Zhiping Luo**

08:50-09:10 A-O18	<b>Recent Developments in Inorganic Scintillators by Codoping</b> Yuntao Wu, <i>Shanghai Institute of Ceramics, Chinese Academy of Sciences</i>
09:10-09:30 A-O19	<b>Study on Ionizing Radiation Information in Video Sensor</b> Yongchao Han, <i>China Institute of Atomic Energy</i>
09:30-09:50 A-O20	<b>LaBr<sub>3</sub> Gamma Spectrometer Based on SiPM with High Energy Resolution and Automatic Temperature Compensation</b> Boxuan Shi, <i>CNNC Environmental Protection Engineering Co, Ltd</i>
09:50-10:10 A-O21	<b>Low Energy Resolution Gamma-ray Spectra Smoothing Method Based on the Hilbert-Huang Transformation</b> Chenghe Jin, <i>China Institute for Radiation Protection</i>
10:10-10:30	<b>Tea break</b>
10:30-10:50 B-O01	<b>Establishment of Radiation Dose-kinetics for Patients with Thyroid Cancer Treated with <sup>131</sup>I Using a Real-time Monitoring System</b> Cuiping Chi, <i>China Institute for Radiation Protection</i>
10:50-11:10 B-O02	<b>New Potential Application of Uranyl Organic Framework as Highly Sensitive Ionizing Radiations Dosimeter</b> Jian Xie, <i>School for Radiological and Interdisciplinary Sciences (RAD-X), Soochow University</i>
11:10-11:30 B-O18	<b>Simulation and Experimental Study of Radiation Field Generated by Electrons Accelerated by Laser-wakefield</b> Shuoyang Wei, <i>Tsinghua University</i>

**Note:** Each presentation is supposed to be 20 mins including 5 mins for Q&A

## Parallel Session 2

## Environmental Radiation Measurement and Assessment

Chairs: Yoshimune Ogata, Jianguo Li

08:50-09:10 D-001	<b>The Sorption Behaviors of Radioactive Liquid Effluents from Nuclear Power Plants</b> <i>Jinzhou Du, East China Normal University</i>
09:10-09:30 D-002	<b>Study on Numerical Wind Tunnel Simulation Technology for Transport and Diffusion of Airborne Radioactive Substances</b> <i>Junfang Zhang, China Institute for Radiation Protection</i>
09:30-09:50 D-003	<b>Measurement of Radiostrontium in Seawater Using a Plastic Scintillator Bottle</b> <i>Yoshimune Ogata, Nagoya University</i>
09:50-10:10 D-004	<b>Study on On-site Calibration Method of Fixed Neutron Dosimeter</b> <i>Ning Lv, Xi'an Research Institute Hi-Tec</i>
10:10-10:30	<b>Tea break</b>
10:30-10:50 D-005	<b>Non-Exchangeable Organically Bound Tritium Concentration in Tree Rings Around a Chinese Nuclear Power Plant</b> <i>Yuhua Ma, Shanghai Institute of Applied Physics, China Academy of Sciences</i>
10:50-11:10 D-006	<b>Preliminary Study on the Source of NE-OBT in the Soil around the Qinshan Nuclear Power Plant</b> <i>Qing Zhang, Shanghai Institute of Applied Physics, China Academy of Sciences</i>
11:10-11:30 D-007	<b>Comparison of Distribution Coefficients of Stable and Radioactive Sr, Cs, Zn and Co in Sediment-seawater System of the East China Sea Coastal Area</b> <i>Qiangqiang Zhong, East China Normal University</i>

**Note:** Each presentation is supposed to be 20 mins including 5 mins for Q&A

**Parallel Session 3**  
**Radiological Risk Management &**  
**Radiological Emergency Planning and Preparedness**

Chairs: Guoqiang Li, Yapeng Yang

14:00-14:20 F-001	<p><b>Impact Test and Numerical Simulation on Model SY-I Transport Container</b>  Guoqiang Li, <i>China Institute for Radiation Protection</i></p>
14:20-14:40 F-002	<p><b>Episodes of Thoron Exposure due to Consumer Products Claiming Health Benefits of Negative Ions</b>  Jaiki Lee, <i>Korean Association for Radiation Protection</i></p>
14:40-15:00 F-003	<p><b>Development of Leading Performance Indicators for the Safety Supervision in Chinese Nuclear and Radiation Facilities</b>  Xingwei Zhen, <i>Dalian University of Technology</i></p>
15:00-15:20 G-001	<p><b>The Development of Core Damage Assessment and Source Term Estimate System for HPR1000</b>  Yapeng Yang, <i>China Institute for Radiation Protection</i></p>
15:20-15:40	<b>Tea break</b>
15:40-16:00 G-002	<p><b>Research and Development of Core Damage Assessment System for Pressurized Water Reactor under the Emergency Condition</b>  Linsheng Jia, <i>China Institute for Radiation Protection</i></p>
16:00-16:20 G-003	<p><b>Research on Method for Prognosis of LBLOCA Initiated Severe Accident Emergency Condition</b>  Ning Wang, <i>China Institute for Radiation Protection</i></p>
16:20-16:40 G-004	<p><b>Reviews and Experimental Study of the Solvent Fire Accidents in Spent Fuel Reprocessing Plant</b>  Yiren Lian, <i>China Institute for Radiation protection</i></p>
16:40-17:00 G-005	<p><b>An Advanced New Uranyl Decorporation Agent: Selectivity, Chelating Ability, and the In Vivo Removal Efficacy of Hinokitiol towards U(VI)</b>  Xiaomei Wang, <i>Soochow University</i></p>
17:00-17:20 G-009	<p><b>Introduction of PWR Source Term Fast Estimation Code Development</b>  Zongyang Feng, <i>China Institute for Radiation Protection</i></p>

**Note:** Each presentation is supposed to be 20 mins including 5 mins for Q&A

**Parallel Session 4**  
**Young Scientists Forum &**  
**Education, Policy and Philosophy in Radiation Safety**  
**Chair: Zhiping Luo**

09:00-09:10	<b>Video from Mr. Sylvain Adresz</b> Chairman of the Young Generation Network, IRPA
09:10-09:30 A-O30	<b>Invited Speaker</b> <b>Surface Treatment of Shell Egg by Low Energy Electron Beam</b> Noriaki Kataoka, <i>Tokyo Metropolitan Industrial Technology Research Institute, Japan</i>
09:30-09:50 B-O11	<b>Invited Speaker</b> <b>New Korean Adult Lung Model for Physical Phantom Application</b> Jeongin Kim, <i>Radiation Health Institute, Korea</i>
09:50-10:10 B-O10	<b>Invited Speaker</b> <b>Neutron Dosimetry for Radiation Protection in Vietnam</b> LE.Ngoc.Thiem, <i>Radiation Protection Center, Institute for Nuclear Science and Technology, Vietnam</i>
10:10-10:30	<b>Tea break</b>
10:30-10:50 C-O20	<b>Invited Speaker</b> <b>Radiation Protection Studies on High Intensity Laser Facilities</b> Rui Qiu, <i>Tsinghua University</i>
10:50-11:10 D-O08	<b>Study on the Activity Concentrations of Radionuclides in Diet Samples Collected from a High Background Radiation Area of Yangjiang City</b> Fei Tuo, <i>Chinese Centre For Disease Control and Preservation</i>
11:10-11:30 C-O21	<b>Effect of Instantaneous Irradiation on Image Quality of Quartz Optical Fiber Transmission</b> Weiqi Huang, <i>Institute of NBC Defence</i>
11:30-11:50 B-O03	<b>The Brief Introduction of Radiological Characterization for Occupational Exposure in Chinese NPPs</b> Qinjian Cao, <i>China Institute for Radiation Protection</i>
11:50-12:10 B-O09	<b>Assessment of Organ Equivalent Dose and Secondary Malignancies Risk for Patients Treated with BNCT</b> Xinxin Zhang, <i>Nanjing University of Aeronautics and Astronautics</i>
	<b>Lunch</b>



**Note:** Each presentation is supposed to be 20 mins including 5 mins for Q&A

**17 July, 2019**

**Great China Function Room-Section 3**

**Parallel Session 4  
Young Scientists Forum &  
Education, Policy and Philosophy in Radiation Safety  
Chair: Rui Qiu**

14:00-14:20 G-008	<b>Preliminary Study for Emergency Action Level in Reprocessing Facility</b> <i>Renze Wang, China Institute for Radiation Protection</i>
14:20-14:40 F-004	<b>Analysis on <math>\gamma</math> Radiation Variation of the Spent Fuel Pool in PWR NPP</b> <i>Yipeng Hu, Fujian Fuqing Nuclear Power Co.,Ltd.</i>
14:40-15:00 B-012	<b>Chinese Adult Female Mesh-type Phantoms with Detailed Breast Structure and Application in Dose Estimation for External Radiation</b> <i>Ankang Hu, Tsinghua University</i>
15:00-15:20 B-013	<b>Preliminary Study on Automatic Organ Segmentation Using Machine Learning and Application in Personalized Dosimetry for Nuclear Medicine</b> <i>Jiahao Wang, Tsinghua University</i>
15:20-15:40	<b>Tea break</b>
15:40-16:00 C-022	<b>Numerical Simulation of Uranium Aerosol Condensation Behavior</b> <i>Xianxun Peng, Research Institute of Physics and Chemical Engineering of Nuclear Safety</i>
16:00-16:20 H-001	<b>Activities of KARP for Public Understanding of Radiation Issues in Korea</b> <i>KyoYoun Kim, Korea Atomic Energy Research Institute</i>
16:20-16:40 H-002	<b>The Change of Risk Perception and Public Acceptance on Nuclear Power of Residents around Nuclear Power Plants after Fukushima Accident</b> <i>Cuiping Lei, National Institute for Radiological Protection, China CDC</i>

**Note:** Each presentation is supposed to be 20 mins including 5 mins for Q&A

**Parallel Session 5**  
**Radioactive Waste Management**  
 Chairs: Anxi Cui, Yongxian Wang

14:00-14:20 E-001	<p><b>The Status of Decommissioning and Environmental Remediation for nuclear facilities of China</b>          Yongxian Wang, <i>China Institute for Radiation Protection</i></p>
14:20-14:40 E-002	<p><b>Nondestructive High-sensitivity Measurement Method for Activation Estimation in Accelerator Room Concrete</b>          Hiroshi Matsumura, <i>High Energy Accelerator Research Organization</i></p>
14:40-15:00 E-003	<p><b>Evaluation of Activated Area in the Electrostatic Accelerator Facilities</b>          Kazuyoshi Masumoto, <i>High Energy Accelerator Research Organization</i></p>
15:00-15:20 E-004	<p><b>Radiation Protection Optimization in Waste Management Process of Nuclear Power Plants</b>          Zhuoran Li, <i>China Nuclear Power Engineering Co.,Ltd.</i></p>
15:20-15:40	<b>Tea break</b>
15:40-16:00 E-005	<p><b>Whole Process Management of Uranium Mining and Milling Decommissioning</b>          Yan Wang, <i>China Institute for Radiation Protection</i></p>
16:00-16:20 E-006	<p><b>Study on Transport Behavior of I and Typical Radioactive Noble Gases in HTGRs</b>          Yu Wang, <i>Tsinghua University</i></p>
16:20-16:40 E-007	<p><b>Volume Reduction Technology of Radioactive Waste and Clearance Practice of Contaminated Materials</b>          Chao Gao, <i>China Institute for Radiation Protection</i></p>
16:40-17:00 E-008	<p><b>Nuclear Power Plant Radioactive Pipeline Laser Decontamination Application</b>          Huiwei Zhang, <i>Daya Bay Nuclear Power Operations and Management Co., Ltd.</i></p>
17:00-17:20 E-009	<p><b>Discussion on Some Issues Involved in Decommissioning and Environmental Remediation of Contaminated Sites</b>          Shaogang Deng, <i>China Institute for Radiation Protection</i></p>

**Note:** Each presentation is supposed to be 20 mins including 5 mins for Q&A

### Student Competition

Chairs: Liye Liu, Tetsuo Iguchi, Chang Ho Shin

08:30-08:50 A-O22	<b>Development of Compton Image Reconstruction on a Projection Sphere Pixelized by HEALPix</b> Atsushi Mukai, <i>Nagoya University</i>
08:50-09:10 A-O23	<b>Development of a Hemispherical Rotational Modulation Collimator (H-RMC)-based Radiation Imaging System with an Enhanced Field of View</b> Hyun Suk Kim, <i>Seoul National University</i>
09:10-09:30 A-O24	<b>Portable <math>\alpha</math> - <math>\beta</math> - <math>\gamma</math> Spectrometer Based on Multiple Detectors</b> Chaoyang Zhao, <i>Sichuan University</i>
09:30-09:50 A-O25	<b>Next Generation Optical Fiber Beam Loss Monitor in SSRF</b> Dezhi Cao, <i>Tsinghua University</i>
09:50-10:10 A-O26	<b>The Design and Implementation of a Portable <math>\gamma</math> Camera</b> Balin Zhu, <i>Sichuan University</i>
10:10-10:30	<b>Tea break</b>
10:30-10:50 A-O27	<b>Biological Tracer Application of Radiocarbon Analysis System with Mid-Infrared Laser Absorption Spectroscopy</b> Keisuke Saito, <i>Nagoya University</i>
10:50-11:10 A-O28	<b>Study of the Cross-effect Coefficient of Lucas Cell</b> Zilin Wang, <i>Beijing Research Institute of Chemical Engineering and Metallurgy</i>
11:10-11:30 A-O29	<b>Dose Rate Measurement Using Improved "G (E) function" Method under Nuclear Emergency Conditions</b> Zeqian Wu, <i>Institute of NBC Defense</i>
11:30-11:50 B-O05	<b>Plastic Holder Effect on Calculated Dose by Radiophotoluminescent Glass Dosimeter using Monte Carlo Simulation</b> Nazia NeelamShehzadi, <i>University of Science and Technology (UST)/ Korea Research Institute of Standards and Science</i>
11:50-12:10 B-O07	<b>An Accurate Neutron Survey Meter Based on Multiple Solid State Neutron Detectors</b> Yulin Zhou, <i>Wuhan Second Ship Research Institute</i>

12:10-12:30 B-O08	<b>A New Neutron Survey Meter Based on Prompt Gamma Rays</b> <i>Lei Fan, Wuhan Second Ship Research Institute</i>
<b>Lunch</b>	

**Note:** Each presentation is supposed to be 20 mins including 5 mins for Q&A

**18 July, 2019**

**Great China Function Room-Section 2**

### Student Competition

Chairs: Liye Liu, Tetsuo Iguchi, Chang Ho Shin

14:00-14:20 B-O15	<b>Development of Fast Monte Carlo Code for High Dose Rate Brachytherapy</b> <i>Ankang Hu, Tsinghua University</i>
14:20-14:40 B-O16	<b>Biophysics Monte Carlo Simulation Code – NASIC Simulating Radiation Effects of the Scale from DNA to the Cell</b> <i>Jingzhe Yang, Tsinghua University</i>
14:40-15:00 B-O17	<b>Estimation of Exposure Dose for Decontamination Workers from Contaminated Soil at a Nuclear Decommissioning Site in Korea</b> <i>So-Hyeon Lee, University of Science and Technology, Republic of Korea</i>
15:00-15:20 C-O23	<b>Evaluation of Dose to Civil Aviation of Chinese Residents</b> <i>Lixiang Guo, Tsinghua University</i>
15:20-15:40	<b>Tea break</b>
15:40-16:00 D-O09	<b>Safety Assessment on Radioactive Scrap Metal in Waste for Decommissioning</b> <i>Tai-Jong Jung, University of Science and Technology</i>
16:00-16:20 D-O10	<b>Long-lived Neutron-Induced Radioisotopes in OKTAVIAN Facility Concrete Wall after 38 Year-operation</b> <i>Fajar Panuntun, Osaka University</i>
16:20-16:40 D-O11	<b>Determination of <math>^{226}\text{Ra}</math> in Water by Electrodeposition Method</b> <i>Yongguang Liang, University of Science and Technology of China</i>
16:40-17:00 D-O12	<b>Evaluation of the Radiation Exposure Dose for Chinese Nuclear Power Plant Decommissioning Using RESRAD Code</b> <i>Zhengtai Huang, Tsinghua University</i>

17:00-17:20 G-006	<b>A Review of Total Ionizing Dose (TID) Effects in MOSFETs</b> Yining Liu, <i>China Institute for Radiation Protection</i>
17:20-17:40 G-007	<b>Radionuclides Release Rate Estimation Method by Gamma Dose Rate Measurement Based on Neural Network</b> Qi Yue, <i>Nanjing University of Aeronautics and Astronautics</i>

**Note:** Each presentation is supposed to be 20 mins including 5 mins for Q&A

**18 July, 2019**

**Great China Function Room-Section 3**

**Parallel Session 6**  
**Radiation Transport and Shielding**  
Chairs: Isao Murata, Qinjian Cao

08:30-08:50 C-001	<b>Activation Analysis of Beam Dump for Beam Commissioning at SHINE Facility</b> Xiaobin Xia, <i>Shanghai Institute of Applied Physics, Chinese Academy of Sciences</i>
08:50-09:10 C-002	<b>Re-analysis of Removal Cross-section of Photoneutrons at TOF Experiment</b> Hee-Seock Lee, <i>Pohang Accelerator Laboratory/POSTECH</i>
09:10-09:30 C-003	<b>Study on Pyrolysis Treatment Technology of Radioactive Waste Resin</b> Wei Xu, <i>China Institute for Radiation Protection</i>
09:30-09:50 C-004	<b>Study on the Application of Environmental Impact Assessment Model for Radioactive Airborne Effluents in Near-Field of Nuclear Fuel Cycle Facilities</b> Jing Kang, <i>China Institute for Radiation Protection</i>
09:50-10:10 C-005	<b>Shielding Design for the Off-Gas Processing System of 2MWt Molten Salt Reactor</b> Zhihong Zhang, <i>Shanghai Institute of Applied Physics, Chinese Academy of Sciences</i>
10:10-10:30	<b>Tea break</b>
10:30-10:50 C-006	<b>Radon Geophysical Information Extraction from the Soil in the West-north Huahai Basin, Gansu Province</b> Ziqi Cai, <i>University of South China</i>

10:50-11:10 C-007	<b>Measurement of Concrete Composition and Its Activation Level Under 14 MeV Neutron Irradiation in Laser Driven ICF Facility</b> Zhilin Chen, <i>Institute of Nuclear Physics and Chemistry, China Academy of Engineering Physics</i>
11:10-11:30 C-008	<b>Measurement Technique of Niobium Reaction Rate for Material Surveillance Tests in Fast Reactors</b> Chikara Ito, <i>Japan Atomic Energy Agency</i>
11:30-11:50 C-009	<b>Activation Analysis of Beam Dump for Beam Commissioning at SHINE Facility</b> Yuhai Xu, <i>Shanghai Institute of Applied Science, Chinese Academy of Sciences</i>
11:50-12:10 C-010	<b>Radiation Protection Studies of the Fragment Separator HFRS at HIAF</b> Yao Yang, <i>Institute of Modern Physics, Chinese Academy of Sciences</i>
<b>Lunch</b>	

**Note:** Each presentation is supposed to be 20 mins including 5 mins for Q&A

**18 July, 2019**

**Great China Function Room-Section 3**

**Parallel Session 6**  
**Radiation Transport and Shielding**  
Chairs: Hee-Seock Lee, Faguo Chen

14:00-14:20 C-011	<b>Hybrid Organic-inorganic Materials towards X-ray Detection</b> Yaxing Wang, <i>Soochow University</i>
14:20-14:40 C-012	<b>Activation and Residual Dose Rate Assessment for Long Pulse Operation Using MCNP6.1 and FISPACT-2010 in KSTAR</b> Yong-Uk Kye, <i>Pohang Accelerator Laboratory</i>
14:40-15:00 C-013	<b>1D/2D Benchmark Experiment of Aluminum Alloy Irradiated by 14 MeV Neutron</b> Yu Li, <i>Institute of Nuclear Physics and Chemistry, China Academy of Engineering Physics</i>
15:00-15:20 C-014	<b>A Optimization of Shielding Structure in Controllable Neutron Source Neutron-Gamma Well Logging Instrument</b> Lei Song, <i>University of Electronic Science and Technology of China</i>

15:20-15:40	<b>Tea break</b>
15:40-16:00 C-O16	<b>Research of Method for Improving the Accuracy of X-Ray Fluorescence Analysis in Coal</b> <i>Yan Zhang, East China University of Technology</i>
16:00-16:20 C-O17	<b>Development and Application of a New Type of Radiation Protection Lead Brick Making Die</b> <i>Guangqing Zhang, Hebei Yuhe Technology Co.,Ltd.</i>
16:20-16:40 C-O18	<b>Research on Inhomogeneity of Radioactive Aerosol Distribution in Effluent from NPP Chimney</b> <i>Yuxiang He, Shanghai Jiao Tong University</i>

**Note:** Each presentation is supposed to be 20 mins including 5 mins for Q&A

## Poster Session 1

## Radiation Transport and Shielding

C-P01	<b>Study on the Minimum Detectable Activity of In-site Detection of La-138 Gamma Ray Spectrum in the South of Jiangxi Rare Earth Mine</b> Weicheng Li, <i>East China University of Technology</i>
C-P02	<b>AIS-based Generation Method of Adjoint Weight Window and Source Biasing</b> Shenshen Gao, <i>Tsinghua University</i>
C-P03	<b>An Evaluation on the Influences of Impurities in Concrete for the Reduction of Radioactive Waste in Reactor Facility</b> Jae Hyun Kim, <i>Hanyang University</i>
C-P04	<b>Proton Induced Activation Analysis of Graphite Target with MCNPX Simulation</b> Yonghyun Kim, <i>Hanyang University</i>
C-P05	<b>Development of MCNP Geometry Voxelization Program for Mesh based Rigorous Two Step Activation Calculation</b> Myeonghyeon Woo, <i>Hanyang University</i>
C-P06	<b>Shielding Test of High-capacity Cobalt Source Transport Cask and Numerical Verification</b> Zhipeng Wang, <i>China Institute for Radiation Protection</i>
C-P07	<b>Numerical Modeling study for Impact of Seismic Activity on Radon Migration Underground</b> Xi Guo, <i>Central South University</i>
C-P08	<b>Evaluation of Neutron Production Yields for Copper Beam Dump Bombarded with 32 MeV/u Ar-40 in Monte Carlo Simulation Codes</b> Dong-Geon Kim, <i>Hanyang University</i>
C-P09	<b>Determination of <math>^{239+240}\text{Pu}</math> in Environmental Aerosol</b> Pengxiang Li, <i>China Institute for Radiation Protection</i>
C-P10	<b>Type Tests of a Low and Intermediate Level Radioactive Solid Waste Drum</b> Shutang Sun, <i>China Institute for Radiation Protection</i>
C-P11	<b>Suggestions on Radioactive Waste Minimization in Nuclear Technology Utilization in China</b> Jingjing Li, <i>China Institute of Atomic Energy</i>



C-P12	<b>A New Type of shielding Device that Can be Installed at a Long Distance Based on the Pneumatic Conveying System</b> <i>Yi Han, China Institute for Radiation Protection</i>
C-P13	<b>Use of NSGA-II Algorithm in the Optimization of Composite Materials for Shielding Neutron with Watt Fission Spectrum</b> <i>Guodong Li, China Institute for Radiation Protection</i>
C-P14	<b>Transport Mechanism of <sup>237</sup>Np and <sup>90</sup>Sr in Silty Loam</b> <i>Chao Chen, China Institute for Radiation Protection</i>
C-P15	<b>Design and Application Research on a High Temperature Resistant Composite Shielding Material for Nuclear Power Plant</b> <i>Xiaoling Li, Wuhan Second Ship Design and Research Institute</i>
C-P16	<b>Surface Activity Change Analysis of Nuclide Co-58 Deposited on the Inner Wall of Pipeline before and after Oxidation Operation in PWR</b> <i>Sanqiang Xia, China Institute for Radiation Protection</i>
C-P17	<b>Establishment of New Consequence Assessment System for Radiation Consequence Quick Evaluation in the Ocean Discharged</b> <i>Anchang Deng, China Institute for Radiation Protection</i>
C-P18	<b>Method for Determination of <sup>55</sup>Fe in Leaching Solution from Cement Solidification using PAX-2 Anion Exchange Resin</b> <i>Lina Ma, China Institute for Radiation Protection</i>
C-P19	<b>Design and Performance Validation of An Epithermal Neutron Flux Detector using <sup>55</sup>Mn (n,γ) <sup>56</sup>Mn Reaction for BNCT</b> <i>Xingcai Guan, Lanzhou University</i>
C-P20	<b>Application of Automation Technology in Monitoring and Analysis of Plutonium in Human Urine</b> <i>Yun-yun Yin, China Institute of Atomic Energy</i>
C-P21	<b>Detecting Nuclear Radiation with an Uncovered CMOS Camera</b> <i>Zhangfa Yan, University of Science and Technology Beijing</i>
C-P22	<b>Energy Spectrum Analysis based on Artificial Neural Network</b> <i>Xin Lu, University of Electronic Science and Technology of China</i>
C-P23	<b>Determination of the Limits of Irradiation Conditions for New Personal Dosimetry Performance Test in Korea</b> <i>Jang-Lyul Kim, Korea Atomic Energy Research Institute</i>
C-P24	<b>Research on Integrated Treatment Equipment of Radioactive Wastewater in Hospital</b> <i>XiaoshuSu, The Fourth Research and Design Engineering Corporation of CNNC</i>

C-P25	<b>The Analysis of NNBI Neutron Source and Tritium Emission Intensity</b> Yuqing Chen, <i>Institute of Plasma Physics Chinese Academy of Science</i>
C-P26	<b>Radiation Shielding Analysis of Irradiated Secondary Neutron Source Transportation with Spent Fuel Transport Cask</b> Pengfei Bao, <i>China Nuclear Power Technology Research Institute</i>
C-P27	<b>Research on Calibration Function for Using Cosmic Ray Neutron near the Surface of the Earth to Measure Soil Moisture</b> Hui Li, <i>China Institute for Radiation Protection</i>
C-P28	<b>The Analysis of the Radiation Level of Uranium Hexafluoride Transport Packages</b> Dajie Zhuang, <i>China Institute for Radiation Protection</i>
C-P29	<b>Radiation Protection and Radiation Monitoring in MOX Fuel Fabrication Facilities</b> Yajun Chen, <i>China Institute of Nuclear Information &amp; Economics</i>
C-P30	<b>Argument Report on Uranium-containing Sewage Discharging into Urban Sewage Pipeline</b> Kai Luo, <i>China Institute for Radiation Protection</i>

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## Poster Session 2

### Radiation Dosimetry

B-P01	<b>Calculation of Effective Dose to Adult and Pediatric Patients Undergoing CT Scans in Korea</b> Kwang Pyo Kim, <i>Kyung Hee University</i>
B-P02	<b>Related Research on Ecological Environmental Impact Assessment Around Nuclear Fuel Reprocessing Plant</b> Wenjing Gong, <i>China Institute for Radiation Protection</i>
B-P03	<b>TL Glow Curve Analysis of Electronic Device Components for Retrospective Dosimetry by TL Glow Curve Deconvolution Programs</b> Insu Chang, <i>Korea Atomic Energy Research Institute</i>
B-P04	<b>Acquisition of Point Spread Function of Light Field Camera in 3D Dose Measurement Based on Light Field Imaging of Scintillation Light</b> Xuewen Yan, <i>China Institute for Radiation Protection</i>
B-P05	<b>Biokinetic Model and the Calculation for Radionuclide Contaminated Wounds</b> Baowei Chen, <i>China Institute for Radiation Protection</i>

B-P06	<b>Brief Introduction of External Exposure Personal Dose Monitoring Laboratory</b> <i>Xueli Hou, China Institute for Radiation Protection</i>
B-P07	<b>In-vivo EPR Dosimetry for Medical Rescue Triage in Mass-casualty Radiation Emergency</b> <i>Junwang Guo, Beijing Institute of Radiation Medicine</i>
B-P08	<b>Calculation of the Irradiation Integrated Dose of Nuclear Safety Class I&amp;C Local Boxes and Cabinets in ACP1000</b> <i>Hongquan Nie, China Nuclear Power Engineering Co., Ltd.</i>
B-P09	<b>Calibration Model of HPGe Detector Efficiency Using GEANT4 Toolkit</b> <i>Ming Zi, Ionizing Radiation Metrology Station of Hunan Province</i>
B-P10	<b>Secondary Radiation Measurement of Proton and Carbon Ion Scanning Beams using Thermoluminescence Method</b> <i>Weiming Sun, Shanghai Proton and Heavy Ion center</i>
B-P11	<b>Research on <math>\gamma</math>-radiation Field Reconstruction Method Based on Source Activity Inversion Calculation</b> <i>Hua Li, China Institute for Radiation Protection</i>
B-P12	<b>Comparison of Treatment Dose between Ionization Chamber and 3D Printed Scintillator</b> <i>Sangmin Lee, Hanyang University</i>
B-P13	<b>Absorbed Dose Evaluation of 3D Printed Plastic Scintillator Based on Energy Calibration Using <math>\gamma</math>-<math>\gamma</math> Coincidence Technique</b> <i>Kihong Pak, Hanyang University</i>
B-P14	<b>External Irradiation of Natural TriuraniumOxtaoxide</b> <i>Gongjian Su, The 404 Company Limited, CNNC</i>
B-P15	<b>Research and Development of Real-time, 3D Dose Distribution Measuring Technique for Radiation Therapy</b> <i>Hua Li, China Institute for Radiation Protection</i>

## Poster Session 2

### Environmental Radiation Measurement and Assessment

D-P01	<b>Management of The Agricultural Food Product System of Korea for a Nuclear Emergency Response</b> <i>Kwang-Muk Lim, Korea Atomic Energy Research Institute</i>
D-P02	<b>Radioactivity Measurement and Evaluation of Paint-free Panels for Indoor Decorative Material with the Function of Negative Air Ion</b> <i>Jun Xiao, Radiation Monitoring Technology Center of the Ministry of</i>

	<i>Environmental Protection</i>
D-P03	<b>Dynamic Model of Enrichment and Exclusion of <math>^{90}\text{Sr}</math> and <math>^{137}\text{Cs}</math> in Crucian Carp (<i>carassius auratus</i>) and Estimation Method of Equilibrium Concentration Ratio (CR)</b> Qiao Cao, <i>China Institute for Radiation Protection</i>
D-P04	<b>Impact of Construction of Port Approaching Industrial Zone on Dilution and Diffusion of Liquid Effluent from A Nuclear Power Plant</b> Ting Li, <i>China Institute for Radiation Protection</i>
D-P05	<b>Radioactive Status of the Distinct Ecosystems of Coral Reefs, Mangroves, and Hydrothermal Vents in The Ocean</b> Wuhui Lin, <i>Guangxi University</i>
D-P06	<b>Rapid Determination of Uranium Isotopes in Calcium Fluoride Sludge by Tandem Quadrupole ICP-MS/MS</b> Shan Xing, <i>China Institute for Radiation Protection</i>
D-P07	<b>An Efficient and Low MDA Method for the Measurement of <math>^{137}\text{Cs}</math> in Marine Biota</b> Jianhua He, <i>Third Institute of Oceanography, Ministry of Natural Resources</i>
D-P08	<b>Optimization and Application of <math>^{210}\text{Bi}</math> Removal Technology in <math>^{90}\text{Sr}</math> Analysis</b> Zhou Li, <i>China Institute for Radiation Protection</i>
D-P09	<b>Ecological Transfer of Wet-deposited Caesium and Strontium on Different Crops</b> Chao Zhang, <i>China Institute for Radiation Protection</i>
D-P10	<b>Preliminary Experiments on Determination of Radium-226 in Water by LSC</b> Li Bao, <i>China Institute for Radiation Protection</i>
D-P11	<b>Measurement of Radon Concentration at Groundwater Treatment Facilities in KOREA</b> Kwang Pyo Kim, <i>Kyung Hee University</i>
D-P12	<b>Automation Separation and LSC Determination of Plutonium</b> Qinghua Xu, <i>China Academy of Engineering Physics</i>
D-P13	<b>Tracing of Near-surface Ozone Sources by <math>^7\text{Be}</math> and <math>^{210}\text{Pb}</math> in Near-surface Aerosols in Mianyang Area</b> Yuhang Liu, <i>Mianyang Radiation Environment Monitoring Station</i>

D-P14	<b>Research on <math>^{210}\text{Pb}</math> Indicating Pollutant Sources of PM<sub>2.5</sub> and PM<sub>10</sub> in Near-surface Aerosols of Mianyang Area</b> Ying Huang, <i>Mianyang Radiation Environment Monitoring Station</i>
D-P15	<b>Study on UF<sub>6</sub> Leakage Source in Restricted Space</b> Lei Chen, <i>China Institute for Radiation Protection</i>
D-P16	<b>Particle Puff Real-Time Tracking in Wind Tunnel Experiment Using Staple Method</b> Siyuan Wu, <i>Shanghai Jiao Tong University</i>
D-P17	<b>Characteristics of a Strontium Adsorbent for Strontium in Seawater</b> Haruka Minowa, <i>Nagoya University</i>
D-P18	<b>In-vivo Proton Range Monitoring Based on pico-second detection using the Cerenkov Radiation detector: A Monte Carlo Study</b> Feng Tian, <i>Nanjing University of Aeronautics and Astronautics</i>
D-P19	<b>Measurements of Size Distributions of Particles in Airborne Effluent of Nuclear Power Plants and Nuclear Fuel Cycle Facilities</b> Jie Hou, <i>Nuclear and Radiation Safety Center, Ministry of Environmental Protection of P.R.China</i>

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### Poster Session 3

#### Radioactive Waste Management

E-P01	<b>Experimental Study on Combustion Characteristics of Impregnated Activated Carbon for Iodine Adsorption</b> Haoran Chu, <i>China Institute for Radiation Protection</i>
E-P02	<b>Study on Drying Regeneration Technology of Activated Carbons Used in Delay Bed of WWER Nuclear Power Plants</b> Yongchen Ji, <i>Jiangsu Nuclear Power Co., Ltd.</i>
E-P03	<b>Study on Radionuclide Decay Heat and Temperature Field for 200L Radioactive Waste Concentrated Liquid Drum</b> Yan Chen, <i>Wuhan Secondary Institute of Ships</i>
E-P04	<b>Analyzing the Differences Between Ceramic Melter of Vitrification Plant of China and Glass Melting Furnace</b> Chen He, <i>Sichuan Environmental Protection Engineering Co.Ltd. CNNC</i>

### Poster Session 3

#### Radiological Risk Management

F-P01	<b>To Explore the Sensitive Biomarkers Served as Health Risk Assessment of Heavy Ion Radiation</b> <i>Xuhong Dang, China Institute for Radiation protection</i>
F-P02	<b>Radiation Protection Control for Maintenance of BOSS Weld of M310 Nuclear Power Unit</b> <i>Zhuoqun Xu, Fujian Fuqing Nuclear Power Co., Ltd</i>
F-P03	<b>Safety Protection Management during Decommissioning of <math>\gamma</math>-irradiation Facility</b> <i>Dongquan Guo, Beijing San Qiang He Li Radiation Engineering Technology Co., Ltd</i>
F-P04	<b>Radioprotection Supervise Practice during the Outage in FQNPC</b> <i>Ling Hu, Fujian Fuqing Nuclear Power CO., Ltd</i>
F-P05	<b>The Management Control and Optimization of Typical Radioactive Hotspots in NPP</b> <i>Chenxiang Chen, CNNP Nuclear Power Operations Management Co.,Ltd</i>

### Poster Session 3

#### Radiological Emergency Planning and Preparedness

G-P01	<b>Management of the Agricultural Food Product System of Korea for a Nuclear Emergency Response</b> <i>Dong-Kwon Keum, Korea Atomic Energy Research Institute</i>
G-P02	<b>Good Practices in the Joint Drills on Radiological Emergency at Border Ports between China Customs and Neighbouring Countries</b> <i>Bin Zhao, Chinese Academy of Customs Administration</i>
G-P03	<b>The Status of Biodosimetry Network for Nuclear Emergency Response</b> <i>Juancong Dong, China Institute for Radiation protection</i>
G-P04	<b>Emergency Condition Analysis of SGTR Initiated Severe Accident</b> <i>Ning Wang, China Institute for Radiation protection</i>
G-P05	<b>Analysis and Research on Operational Intervention Level of Spent Fuel Reprocessing Plant</b> <i>Xiaoxiao Xu, China Institute for Radiation Protection</i>

### Poster Session 3

#### Education, Policy and Philosophy in Radiation Safety

H-P01	<b>The Practice and Exploration of Radiation Safety Education and Capacity Building about China Customs</b> Bin Zhao, <i>Chinese Academy of Customs Administration</i>
H-P02	<b>Publicity of Nuclear and Radiation Safety into School</b> Maozhi Wang, <i>China Museum of Nuclear Science and Technology</i>
H-P03	<b>Understanding of Radioactive Packages Surface Radiation Monitoring Provisions between IAEA SSG 26 Recommendations and Chinese Technical Guidelines</b> Xuexin Wang, <i>China Institute for Radiation Protection</i>
H-P04	<b>Radiation Safety and Detection Training Exploration and Practice in China Customs</b> Yongming Hou, <i>Chinese Academy of Customs Administration</i>
H-P05	<b>Training Experience in Radiation Safety and Protection for Mobile <math>\gamma</math>-ray Industrial Inspection Workers</b> Ruiling Liang, <i>China Institute for Radiation Protection</i>
H-P06	<b>GIS-based Accessibility Assessment of Nuclear Power Plant Decommissioning Site for Reuse</b> Che WookYim, <i>Hanyang University</i>

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#### Poster Session 4

#### Radiation Detection Technology and Application

A-P01	<b>Development of A Ventilated Protective Suit Implemented with Powered Air-purifying Respirator for Radioactive Contamination</b> Guodong Li, <i>China Institute for Radiation Protection</i>
A-P02	<b>Rapid Analytical Method of Radionuclide Impurities in <math>^{99}\text{Tc}</math> raw-material for Quality Control</b> Maoyi Luo, <i>China Institute for Radiation Protection</i>
A-P03	<b>A Method for Monitoring <math>H'(0.07)</math> in the Mixed Field of beta-gamma</b> Yingjing Wei, <i>China Institute for Radiation Protection</i>

A-P04	<b>Research on the Radiation Failure Dose of A Typical Minimum System Board</b> Runcheng Liang, <i>China Institute for Radiation Protection</i>
A-P05	<b>The Development of a Radioactive Inert Gas Monitor Based on SDD Detector</b> Xinjie Huang, <i>Wuhan Second Ship Design and Research Institute</i>
A-P06	<b>Galet-DNA Project, Geant4-DNA based Monte Carlo Simulation and Its Prospects to Verify DNA-level Experiments</b> Tsukasa Aso, <i>National Institute of Technology, Toyama College</i>
A-P07	<b>Application Research of Energy Windowing Algorithms for Radiation Portal Monitors</b> Mei Feng, <i>China Institute for Radiation Protection</i>
A-P08	<b>Studies of Neutron Gamma Pulse Shape Discrimination in Novel DIN-Based Gel Scintillator using Charge Integration Method</b> Deyuan Li, <i>China Institute for Radiation Protection</i>
A-P09	<b>Study on Correction Coefficient of Lower Limit of Detection about Net Count Rate</b> Tao Jin , <i>Nuclear Power institute of China, Sichuan Engineering Laboratory for Nuclear Facilities Decommissioning and Radwaste Management</i>
A-P10	<b>Low Energy Resolution Gamma-ray Spectra Smoothing Method Based on the Hilbert-Huang Transformation</b> Chenghe Jin, <i>China Institute for Radiation Protection</i>
A-P11	<b>Discussion on Short-lived Radionuclide Aerosol Monitoring</b> Dan Meng, <i>China Institute for Radiation Protection</i>
A-P12	<b>A Performance Study on Protective Film of PIPS Detector</b> Tao Ma, <i>China Institute for Radiation Protection</i>
A-P13	<b>The Method Studies for Monitoring Radioactive Aerosol in High Radon Environment</b> Yi Yang, <i>China Institute for Radiation Protection</i>
A-P14	<b>Dynamic Testing of Continuous Radioactive Aerosol Monitors with Beta-emitters under Real Operating Condition</b> Yi Yang, <i>China Institute for Radiation Protection</i>
A-P15	<b>Experiment and Analysis on Characteristics of Radiation Portal Monitors with Temperature</b> Wei Cui, <i>China Institute for Radiation Protection</i>
A-P16	<b>Method for Determining Coefficients of Time-to-Count Measurement for G-M Tube</b> Wei Cui, <i>China Institute for Radiation Protection</i>



A-P17	<b>Large Area Sealed Gas Proportional Counter Performance Test</b> Li Qiao, <i>China Institute for Radiation Protection</i>
A-P18	<b>Application of Radiation Portal Monitor Based on Spectrum Analysis for Radiation Detection of Port</b> Yongming Hou, <i>Radiation Detection Training Center of China Customs</i>
A-P19	<b>Research on Automatic Calibration of Air Sampler in Radiation Environment</b> Yunlong Niu, <i>Zhejiang Radiation Environmental Monitoring Station, the State Environmental Protection Key Laboratory of Radiation Monitoring</i>
A-P20	<b>Comparison of Non-linearity of Two Kinds of Most Common Dose Calibrators under the Low-level Activity Circumstance</b> Xiaoshuang Li, <i>Shanghai Institute of Measurement and Testing Technology</i>
A-P21	<b>Three-dimensional Imaging for Concrete Internal Contamination Using Large-Area Compton Camera</b> Jae Hyeon Kim, <i>Hanyang University</i>
A-P22	<b>Performance Prediction of Arched Multi-slit Prompt-gamma Camera to Measure Range of Each Spot in Spot Scanning Proton Therapy</b> Youngmo Ku, <i>Hanyang University</i>
A-P23	<b>Response Evaluation of ANeutron Diffractometer for Compact Accelerator Neutron Source</b> Sho Imai, <i>Nagoya University</i>
A-P24	<b>Three-dimensional Compton Image Reconstructionfor Large-Area Compton Camera Based on SLAM</b> Jun Young Lee, <i>Hanyang University</i>
A-P25	<b>Beam Quality Assurance Using Optical Fiber-based Neutron Detector in BNCT Neutron Field</b> Akihisa Ishikawa, <i>Nagoya University</i>
A-P26	<b>Enhancement of Light Output of an Organic Scintillator with Reduced Graphene Oxide-based Coating</b> Hyun Young Shin, <i>Chung-Ang University</i>
A-P27	<b>Study on the Influence of Volume Source Size on the Performance of Anti-Compton HPGe <math>\gamma</math> Spectrometer</b> Qiqi Ren, <i>University of Science and Technology of China</i>
A-P28	<b>Estimation of Background Gamma-ray Spectrum for High-precision Dosimeter for Future Fukushima</b> Angxuan Jiang, <i>Osaka University</i>
A-P29	<b>Feasibility Evaluation of Si Detector as Beta Detector in High Energy Gamma Ray Field</b> Jaeyeong Jang, <i>Hanyang University</i>

A-P30	<b>Measurements of Thermal Neutrons Using a Fiber-optic Scintillating Sensor in a Critical Assembly</b> Jinhong Kim, <i>Chung-Ang University</i>
A-P31	<b>Study on Influencing Factors of Site Measurement of Beta Surface Contamination</b> Yuqin Li, <i>China Institute of Atomic Energy</i>
A-P32	<b>Study of the Cross-effect Coefficient of Lucas Cell</b> Zilin Wang, <i>Beijing Research Institute of Chemical Engineering and Metallurgy</i>
A-P33	<b>Comparison of CsI(Na) and CsI(Tl) Coupling SiPM for <math>\gamma</math> Spectroscopic Analysis</b> Tai Gao, <i>Sichuan University</i>
A-P34	<b>Radiation Detection Based on Heart Rate Measurement using a Smartphone Camera</b> Gangqin Huang, <i>University of Science and Technology Beijing</i>
A-P35	<b>Position Estimation of a Gamma-ray Source Using One-Dimensional Scintillator Array</b> Si Won Song, <i>Chung-Ang University</i>
A-P36	<b>Application of Multiple Comparators to <math>^3\text{He}</math> Proportional Counter for Neutron and Gamma-ray Discrimination</b> Jihun Moon, <i>Hanyang University</i>
A-P37	<b>Retrieval of Proton Beam Range Shift Using Centroid of Gamma Electron Vertex Image</b> Sung Hun Kim, <i>Hanyang University</i>
A-P38	<b>Simulation Study on Energy Response Functions of the Single-sphere Neutron Spectrometer in Balloon-borne Cabin</b> Hongbin Kang, <i>University of South China</i>
A-P39	<b>A Control System Design of High Energy X-ray CT for Fuel Assembly Detection</b> Zhe Pan, <i>China Institute of Atomic Energy</i>
A-P40	<b>A Simulation Study on Performance Comparison of Imaging Modalities of Large Area Hybrid Gamma Imaging System</b> HyunSu Lee, <i>Hanyang university</i>
A-P41	<b>Measurements of Light Output from the Tumor Model Scintillator with Čerenkov Subtraction Method</b> Tae Hoon Kim, <i>Hanyang University</i>
A-P42	<b>TRIP International Comparison among 11 Thyroid Radioiodine Monitoring Institutions in China</b> Jianfeng Zhang, <i>National Institute for Radiological Protection, Chinese Center for Disease Control and Prevention</i>

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A-P43

**Changes of Gene Expression of Drug Metabolizing Enzymes in  
Radiation Accident Exposed Persons**

Cuiping Chi, *China Institute for Radiation Protection*