

ISRD2016

Monday 18 January 2016

Registration - Kobayashi-hall (11:00-13:00)

Welcoming Remarks - Kobayashi-hall (13:00-13:10)

Space - Kobayashi-hall (13:10-14:30)

time title

13:10	O1: Radiation Detector Development for Direct Dark Matter Search (invited) (00h40') <i>Presenter: MIUCHI, Kentaro</i>
13:50	O2: Direction-sensitive dark matter search with micro-TPC (00h20') <i>Presenter: YAKABE, Ryota</i>
14:10	O3: Low energy response on liquid argon scintillation and ionization process for dark matter search (00h20') <i>Presenter: KIMURA, Masato</i>

Coffee Break - Kobayashi-hall (14:30-14:50)

Space: Space - Kobayashi-hall (14:50-16:10)

time title

14:50	O4: Development of a Tissue-Equivalent Space Dosimeter with an ability of Charged-Particle Tracking (00h20') <i>Presenter: KISHIMOTO, Yuji</i>
15:10	O5: Variation of long term space radiation monitoring during the solar minimum to maximum of the 24th cycle in the ISS `KIBO` (00h20') <i>Presenter: NAGAMATSU, Aiko</i>
15:30	O6: Instrumental overview of Active X-ray Spectrometer for future lunar landing mission (00h20') <i>Presenter: NAGAOKA, Hiroshi</i>
15:50	O7: Current development status of an X-ray generator for X-ray fluorescence analysis on space mission (00h20') <i>Presenter: KUSANO, Hiroki</i>

Coffee Break - Kobayashi-hall (16:10-16:30)

Fukushima - Kobayashi-hall (16:30-18:10)

time title

16:30	O8: Challenge for Remediation of Agricultural land Contaminated by Radiocesium in Iitate Village, Fukushima (Invited) (00h40') <i>Presenter: MIZOGUCHI, Masaru</i>
17:10	O9: Identification of 90Sr/ 40K based on Cherenkov Detector for Recovery from the Fukushima Nuclear Accident (00h20') <i>Presenter: ITO, Hiroshi</i>

17:30	O10: Development and current status of a carborne gamma-ray survey system, KURAMA-II (00h20') <i>Presenter: TANIGAKI, Minoru</i>
17:50	O11: Measurement of radioactive contamination on work clothing of workers engaged in environmental remediation work (00h20') <i>Presenter: NORIO, Tsujimura</i>

Welcome party - Kobayashi-hall (18:30-20:00)

Tuesday 19 January 2016

CT,PET,Imaging,Simulation - Kobayashi-hall (09:00-10:20)

time title

09:00	O12: Advanced Concepts in Multi-Dimensional Radiation Detection and Imaging (invited) (00h40') <i>Presenter: VETTER, Kai</i>
09:40	O13: MRI performance evaluation of an integrated head PET/RF-coil modality (00h20') <i>Presenter: MD SHAHADAT HOSSAIN, Akram</i>
10:00	O14: Optimization of a four layer DOI detector performance using different optical coupling conditions between crystals (00h20') <i>Presenter: MOHAMMADI, AKRAM</i>

Coffee Break - Kobayashi-hall (10:20-10:40)

CT,PET,Imaging,Simulation : CT,PET,Imaging,Simulation - Kobayashi-hall (10:40-12:00)

time title

10:40	O15: New DOI Identification Approach for High-Resolution PET Detectors (00h20') <i>Presenter: CHOUGHADI, Amin</i>
11:00	O16: The Influence of Scatter on Energy-Resolved X-Ray Computed Tomography: A Simulation Study (00h20') <i>Presenter: TSAI, Tien-Hsiu</i>
11:20	O17: A “transXend” detector for practical third generation computed tomography (Invited) (00h40') <i>Presenter: KANNO, Ikuo</i>

Lunch - Kobayashi-hall (12:00-13:20)

Medical, Environment - Kobayashi-hall (13:20-14:40)

time title

13:20	O18: The measuring techniques of photons and electrons for the dose of national standards (invited) (00h40') <i>Presenter: KUROSAWA, Tadahiro</i>
14:00	O19: Applicability of Monte-Carlo Simulation to Equipment Design of Radioactive Noble Gas Monitor (00h20') <i>Presenter: SAKAI, Hirotaka</i>
14:20	O20: Development of Cavity Ring-Down Spectroscopy for ¹⁴C Isotope Analysis of Biomedical Samples (00h20') <i>Presenter: SONNENSCHNEIDER, Volker</i>

Coffee Break - Kobayashi-hall (14:40-15:00)

Dosimeter, basic process - Kobayashi-hall (15:00-16:20)

time title

15:00	O21: Radiation chemical yields for loss of carbonyl bonds in poly(allyl diglycol) carbonate and other polymeric etched track detector at the LETs ranging from 0.025 to 12,000 keV/um (00h20') <i>Presenter: KUSUMOTO, Tamon</i>
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15:20	O22: Evaluation response characteristics when radiophotoluminescent glass dosimeters are placed inside or outside radiation field in radiotherapy; by using Monte Carlo method (00h20') <i>Presenter: ISHIBASHI, Emi</i>
15:40	O23: Microdosimetry of high-energy charged particle beam using tissue equivalent proportional counters (00h20') <i>Presenter: TSUDA, Shuichi</i>
16:00	O24: Evaluation of Basic Characteristics of Semiconductor Detector for Personal Monitoring (00h20') <i>Presenter: TERASAKI, Kento</i>

Poster session - Kobayashi-hall (16:30-18:30)

title	board
P1: Feasibility study on the online measurement of boron concentration for BNCT (00h20') <i>Presenter: NISHIMATSU, Daisuke</i>	
P2: Evaluation of the Chemical Compositions Urinary Stones Using Energy-resolved X-ray CT (00h20') <i>Presenter: INOUE, Fukutaro</i>	
P3: The material thickness estimation method using electric current ratio of a two-dimensional transXend detector (00h20') <i>Presenter: KONISHI, Kento</i>	
P4: Measurement of effective atomic number with polychromatic X-rays using transXend detector (00h20') <i>Presenter: MARUYAMA, Yoshihiro</i>	
P5: A current mode energy-resolved CT using several kinds of scintillators (00h20') <i>Presenter: HAMAGUCHI, Takumi</i>	
P6: A spatial resolution improvement of flat-type "transXend" detector (00h20') <i>Presenter: YAMAUCHI, Kazuki</i>	
P7: Comparison of optical fiber type small size dosimeters using Eu:BaFBr and Ce:CaF₂ OSL elements for various radiations (00h20') <i>Presenter: HIRATA, Yuho</i>	
P8: Characterization of Multi-pixel Array of TES Microcalorimeter (00h20') <i>Presenter: YOSHIMOTO, Shota</i>	
P9: Detector calibration to spontaneous fission for the study of superheavy elements using gas-filled recoil ion separator (00h20') <i>Presenter: TAKEYAMA, Mirei</i>	
P10: Study on the effects of exposure of TlBr semiconductor detector to gamma-ray (00h20') <i>Presenter: MATSUMURA, Motohiro</i>	
P11: Development of Pixelated Linear Avalanche Integration Detector using Silicon on Insulator Technology (00h20') <i>Presenter: KOYAMA, Akihiro</i>	
P12: Superior radiation hardness of a single crystal CVD diamond detector under proton beam bombardment (00h20') <i>Presenter: SATO, Yuki</i>	
P13: Neutron energy spectrometer with onion-like single bonner sphere using TRUST Eu:LiCAF scintillator (00h20') <i>Presenter: MIZUKOSHI, Tomoaki</i>	

P14: Image Reconstruction for Measurement of Neutron Emission Profile in Fusion Device using Nuclear Emulsion (00h20') <i>Presenter: IZUMI, Yuya</i>	
P15: Evaluation of Neutron Response of Criticality Accident Alarm System Detector to Quasi-Monoenergetic 24 keV Neutrons (00h20') <i>Presenter: TSUJIMURA, Norio</i>	
P16: A prototype detector using the neutron image intensifier and multi-anode type photomultiplier tube for pulsed neutron imaging (00h20') <i>Presenter: ISHIKAWA, Hirotaku</i>	
P17: Neutron Tomosynthesis for Visualization of Water Behavior in Thin Materials (00h20') <i>Presenter: TANAKA, Kenta</i>	
P18: Development of Portable Gamma-ray Imager based on Stacked GAGG Scintillators with 4π sensitivity (00h20') <i>Presenter: FUWA, Yuta</i>	
P19: Electron-Tracking Compton Imaging using SOI Pixel Detector (00h20') <i>Presenter: YOSHIHARA, Yuri</i>	
P20: Measurement of Zenith and Azimuth Angular Differential Flux of Cosmic Muons Using a Prototype Portable Muography Detector (00h20') <i>Presenter: KIN, Tadahiro</i>	
P21: Development of Micro-structured Fluorescent Plates for High-resolution Imaging (00h20') <i>Presenter: SAKAI, Takuro</i>	
P22: Proposal of high position resolution gamma-ray detector using phi 0.2mm Wavelength sifting Fibers (00h20') <i>Presenter: KOBAYASHI, Atsushi</i>	
P23: New Developments in Gas Detectors - The Multi-Grid High-Pressure Gas Proportional Scintillation Counter (00h20') <i>Presenter: FILIPE VENTURA CORTEZ, Andre</i>	
P24: Development of a portable gamma-ray survey system for measurements of dose rates in air (00h20') <i>Presenter: GOTO, Jun</i>	
P25: Performance of the Panasonic ZP-1460 electronic personal dosimeter in exposure conditions likely found at the crippled Fukushima Daiichi nuclear power plant (00h20') <i>Presenter: TSUJIMURA, Norio</i>	
P26: Development of resonance ionization mass spectrometry for radioactive isotope analysis based on Ti:Sapphire laser system (00h20') <i>Presenter: NAKAMURA, Atsushi</i>	
P27: Development of gas ionization chambers with coplanar electrodes for alpha-ray spectrometry (00h20') <i>Presenter: IWASAKI, Kenta</i>	
P28: Analysis of L X-ray Spectra of Transuranium Elements Measured by a Microcalorimeter (00h20') <i>Presenter: SUGIMOTO, Tetsuya</i>	
P29: The evaluation of the 0.07 mm and 3 mm dose equivalent with a portable beta spectrometer (00h20') <i>Presenter: HOSHI, Katsuya</i>	
P30: Temperature dependence of luminescence properties for gadolinium-pyrosilicate scintillator (00h20') <i>Presenter: HORIAI, Takahiko</i>	
P31: Crystal growth and basic scintillation properties of Yb:LuF3 single crystal (00h20') <i>Presenter: TANAKA, Chieko</i>	

P32: Scintillating fiber fabrication for X-ray and gamma-ray detection (00h20') <i>Presenter: YEWON, Kim</i>	
P33: Study of the dependence of the quantum efficiency of a CsI photocathode in gaseous xenon on the photon incidence angle (00h20') <i>Presenter: SAITO, Kiwamu</i>	
P34: Basic performance of hole-type MPGD with PEG3 (00h20') <i>Presenter: ITO, R</i>	
P35: Monitoring of Radiation Dose Distribution Utilizing RPL Phenomenon in Ag-doped Phosphate Glass (00h20') <i>Presenter: NANTO, Hidehito</i>	
P36: Gamma-ray Emission from the Surface of Martian Satellites as a Function of Elemental Composition (00h20') <i>Presenter: YOSHIDA, Kouhei</i>	
P37: The Quad-CZT Array for Nuclear Material Accountancy (00h20') <i>Presenter: KWAK, Sung-Woo</i>	
P38: DEVELOPMENT OF RESONANCE NEUTRON IMAGING USING 10B-GLASS-GEM DETECTOR (00h20') <i>Presenter: ITO, Kai</i>	

Wednesday 20 January 2016

Scinillation, Medical, Ar - Kobayashi-hall (09:00-10:20)

time title

09:00	O25: Scintillator design via codoping (invited) (00h40') <i>Presenter: MELCHER, Chuck</i>
09:40	O26: Radiation Hardness of Ce:(La, Gd)_2Si_2O_7 Scintillator (00h20') <i>Presenter: KUROSAWA, Shunsuke</i>
10:00	O27: High purity NaI(Tl) scintillator to search for dark matter (00h20') <i>Presenter: FUSHIMI, Ken-Ichi</i>

Coffee Break - Kobayashi-hall (10:20-10:40)

Scinillation, Medical, Ar : Scinillation, Medical, Ar - Kobayashi-hall (10:40-11:40)

time title

10:40	O28: Systematic study of photon yields in inorganic and organic scintillators (00h20') <i>Presenter: SHIBAMURA, Eido</i>
11:00	O29: Performance of VUV-sensitive MPPC for Liquid Argon Scintillation Light (00h20') <i>Presenter: WASHIMI, Tatsuki</i>
11:20	O30: Luminescence imaging of water during proton-beam irradiation for range estimation (00h20') <i>Presenter: YAMAMOTO, Seiichi</i>

Lunch - Kobayashi-hall (11:40-13:00)

Neutron - Kobayashi-hall (13:00-15:00)

time title

13:00	O31: Detection for nuclear nonproliferation (invited) (00h40') <i>Presenter: POZZI, Sara</i>
13:40	O32: High sensitive neutron-detection by using a self-activation of iodine-containing scintillators for the photo-neutron monitoring around X-ray radiotherapy machines (00h20') <i>Presenter: NOHTOMI, Akihiro</i>
14:00	O33: An Investigation of Elemental Composition of Martian Satellites by Gamma-ray and Neutron Spectrometers (00h20') <i>Presenter: NOBUYUKI, Hasebe</i>
14:20	O34: Neutron Fluxes from Martian Satellites as a function of Chemical Composition and Hydrogen Content (00h20') <i>Presenter: NAITO, Masayuki</i>
14:40	O35: Characterization of hundreds of MeV $^7\text{Li}(p,n)$ quasi-monoenergetic neutron source at RCNP usinf a proton recoil telescope and time-of-flight method (00h20') <i>Presenter: HAGIWARA, Masayuki</i>

Coffe Break - Kobayashi-hall (15:00-15:20)

Electronics - Kobayashi-hall (15:20-17:20)

time title

15:20	O36: Promising impact of 3-D position sensitive detectors in positron emission tomography (00h40') <i>Presenter: LEVIN, Craig</i>
16:00	O37: A fast SiPM readout ASIC for PET systems using time over threshold method (00h20') <i>Presenter: TIAN, Yang</i>
16:20	O38: Simulation of 2.5-mm-thick gated silicon drift detector (00h20') <i>Presenter: ISHIKAWA, Shohei</i>
16:40	O39: Development of SOI Pixel Detectors and their Applications (invited) (00h40') <i>Presenter: ARAI, Yasuo</i>

Banquet - Kobayashi-hall (18:00-20:00)

Thursday 21 January 2016

Semiconductor, Imaging - Kobayashi-hall (09:00-10:20)

time title

09:00	O40: Position-sensitive 3D CZT gamma-ray detectors with thicknesses up to 50 mm (invited) (00h40') <i>Presenter: JAMES, Ralph</i>
09:40	O41: Development of position-sensitive TlBr gamma-ray detectors (00h20') <i>Presenter: HITOMI, Keitaro</i>
10:00	O42: Development of CdTe photon-counting pixel detectors combined with aluminum schottky sencor (00h20') <i>Presenter: TOYOKAWA, Hidenori</i>

Coffe Break - Kobayashi-hall (10:20-10:40)

Semiconductor, Imaging: Semiconductor, Imaging - Kobayashi-hall (10:40-12:00)

time title

10:40	O43: Inexpensive Gated Silicon Drift Detector Using Low Resistivity Silicon Wafer (00h20') <i>Presenter: TAKESHITA, Akinobu</i>
11:00	O44: Characterization of Polycapillary Optics Installed in an Analytical Electron Microscope (00h20') <i>Presenter: TAKANO, Akira</i>
11:20	O45: Superconducting Radiation Detectors (invited) (00h40') <i>Presenter: MAEHATA, Keisuke</i>

Closing Remarks - Kobayashi-hall (12:00-12:10)

Technical tour - Kobayashi-hall (12:10-17:00)