【General Session】

April 11 (Thu)　　PACIFICO YOKOHAMA Conference Center　418

1. Photon/Electron Therapy 1 (4DRT/Real Time)　　　　13:00–14:00　　　　Moderator: Yuki Miyabe

0-001　A study of three dimensional tracking method for organ motion on two cross-sectional ultrasound images
　　　　　　　　　　　　　　　　　　　　　　　　　Gunma University　　Yoshiki Kubota

0-002　Real-time tumor-tracking radiotherapy system with mono X-ray fluoroscopy
　　　　　　　　　　　　　　　　　　　　　　　　Hokkaido University　Naoki Miyamoto

0-003　Development of a real time motion image prediction system with ROI selection for lung tumor tracking in radiation therapy
　　　　　　　　　　　　　　　　　　　　The University of Tokyo　　Ritu Bhusal Chhatkuli

0-004　Impact of respiratory motion on dose profile during VIRTUAL WEDGE delivery
　　　　　　　　　　　　　　　　　　　　　　　　Osaka University　　Nobuhide Wakai

0-005　Investigation of well-balanced kV x-ray imaging condition between skin dose and noise for dynamic tumor-tracking irradiation in Vero4DRT
　　　　　　　　　　　　　Institute of Biomedical Research and Innovation　　Takahiro Nakai

0-006　Mechanical accuracy of dynamic tumor-tracking during arc irradiation with gimbaled x-ray head
　　　　　　　　　　　　　　　　　　　　　　　　Kyoto University　　Tomohiro Ono

2. Photon/Electron Therapy 2 (CBCT)　　　　　　14:00–14:50　　　　Moderator: Akihiro Takemura

0-007　Time-ordered four dimensional Cone-Beam CT
　　　　　　　　　　　　　　　　　　　　　　The University of Tokyo　Masahiro Nakano

0-008　Accuracy evaluation of Atlas-based Auto-Segmentation software in cone-beam CT image
　　　　　　　　　　　　　　　　　　　Fujimoto Hayasuzu Hospital　Hidemi Kamezawa

0-009　Basic study of 4D CBCT reconstruction using the detection of the target position from 2D projection images.
　　　　　　　　　　　　　　　　　　　Tokai University Hospital　　Keisuke Usui

0-010　Evaluation for 4 dimensional reconstruction of a cone beam CT on a linac with a dynamical tracking system
　　　　　　　　　　　　　　　　　　　　Juntendo University　Satoru Sugimoto

0-011　Improvement of 4D Cone-beam CT image quality with iterative reconstruction
　　　　　　　　　　　　　　　　　　　　　　The University of Tokyo　　Satoshi Kida

3. Photon/Electron Therapy 3 (CBCT/Dose Calculation)　　15:00–16:00　　　　Moderator: Kunihiko Tateoka

0-012　Dose calculation using in-treatment 4D kilovoltageCBCT and in-treatment linac parameters during VMAT for a lung tumor
　　　　　　　　　　　　　　　　　　　The University of Tokyo Hospital　　Akira Sakumi

0-013　Monte Carlo calculation of patient dose distributions from kV-cone beam CT for image-guided radiation therapy
　　　　　　　　　　　　　　　　　　　　Kumamoto University　　Kazunari Hioki

0-014　Monte Carlo dose verification of intensity modulated radiation therapy based on MATLAB
　　　　　　　　　　　　　　　　　　　　Kumamoto University　Yuuki Tomiyama

0-015　Measurement of dose evaluation indices using cone-beam CT for prostate IMRT
　　　　　　　　　　　　　　　　　　　Kyushu University Hospital　Taka-Aki Hirose

0-016　Study of conversion of energy subtracted CT number to electron density using dual energy CT
　　　　　　　　　　　　　　　　　　　　Niigata University　Masayoshi Tsukihara

0-017　Electron density measurement with dual energy CT for radiation treatment planning: comparison of projection-based versus image-based virtual monochromatic imaging

<div align="right">Kobe Medical Cancer Center　Toshiyuki Ogata</div>

4. Photon/Electron Therapy 4 (QA/QC1)　　　　　　16:00–17:10　　　　Moderator: Iori Sumida

0-018　Fundamental study for scanning methods in IMRT verification using Gafchromic EBT3

<div align="right">Institute of Biomedical Research and Innovation　　　Kazuki Kubo</div>

0-019　Evaluation of an independent monitor unit calculation software for intensity modulated radiation therapy

<div align="right">Kanagawa Cancer Center　　　Kenji Shioiri</div>

0-020　Evaluation of the accuracy of IMRT QA using 3DVH software

<div align="right">Tohoku University　Makoto Ogasawara</div>

0-021　Creating a daily personal dose management software that can be visually evaluated in IMRT using the MLC Log File

<div align="right">Tama-Hokubu Medical Center　Kazunori Watanabe</div>

0-022　Characteristic examination of the detector in the verification of VMAT for Prostate with dose distribution.

<div align="right">Seirei Hamamatsu General Hospital　　　Yuta Muraki</div>

0-023　Basic characteristic comparison of the COMPASS and the MatriXX Evolution

<div align="right">Kagoshima University Medical and Dental Hospital　Masahiko Toyota</div>

0-024　Usability of the high-precision measuring instrument to manage the radiation beam of the high-precision radiotherapy equipment

<div align="right">Yokohama CyberKnife Center　Mitsuhiro Inoue</div>

5. Diagnostic 1   13:00–13:40   Moderator: Hidetake Hara

0-025   Investigation of the irregularity of the sensitivity in the aged deterioration of the IP for mammography

Nagasaki Municipal Hospital   Soichiro Kawaguchi

0-026   Analysis of phase contrast using transmission-type x-ray source and flat panel detector

Fujita Health University   Ai Ikeya

0-027   Extraction of obstacles in panoramic x-ray images with a tomosynthesis method

Hosei University   Junpei Yamamoto

0-028   3D kinematic estimation of temporomandibular joint using X-ray fluoroscopic images

MEI Center Osaka University   Takaharu Yamazaki

6. Diagnostic 2 (CT)   13:40–14:30   Moderator: Shinichi Wada

0-029   Simple noninvasive approach to assess gantry rotation time: Relation between the accuracy and detector position

Shiga Medical Center for Children   Atsushi Fukuda

0-030   Study on influence of scattered radiation in ADCT

Hokkaido University Hospital   Michiaki Yamashita

0-031   The Characteristic of a Dose to Head Region in Dual Source CT

Kitasato University   Hidetake Hara

0-032   Withdrawn

0-033   Measurement of linear attenuation coefficients with a photon counting CT

Hosei University   Mariko Matsumoto

7. Diagnostic 3 (Photon Counting)   14:40–15:30   Moderator: Koichi Ogawa

0-034   80 kcps energy-dispersive X-ray CT system utilizing a CdTe detector and a comparator

Iwate Medical University Hospital   Yuichi Sato

0-035   Dark-count-less photon-counting X-ray CT system using a YAP(Ce)-MPPC detector

Iwate Medical University   Yasuyuki Oda

0-036   Energy-dispersive CT system with a Si-PIN X-ray diode and its application to gadolinium K-edge imaging

Iwate Medical University   Eiichi Sato

0-037   High-sensitivity CT system using a direct-conversion Si-PIN X-ray diode and its application to gadolinium K-edge imaging

Iwate Medical University   Eiichi Sato

0-038   Development of an LSO-MPPC spectrometer and its applications high-speed energy-dispersive X-ray CT system

Iwate Medical University   Eiichi Sato

8. Diagnostic 4 (CAD)   15:30–16:20   Moderator: Hideaki Haneishi

0-039   Histogram analysis of 3D cerebral cortical thicknesses on MR images for diagnosis of Alzheimer's disease

Kyusyu University Hospital   Chiaki Tokunaga

0-040   Noise-mapping of cerebral infarction CT image obtained in head CT examination with organ-based tube current modulation system

Nagoya University   Chiyo Yamauchi-Kawaura

O-041　Let's consider sensory rating of the vision assessment methods of X-ray examination. Thurstone's Paired Comparison and Scheffe's Paired Comparison

Ureshino Medical Center　　　Yukio Inoue

O-042　Investigation of image property in AIDR3D

Hokkaido University Hospital　Michiaki Yamashita

O-043　Reconstruction of CT images with projection data including missing parts

Hosei University　　Futoshi Kaibuki

9. Radiation Protection　　　　　　　　　　　　16:30–17:00　　　　Moderator: Hiroki Ohtani

O-044　A study on a real-time x-ray entrance dose monitoring system in interventional radiology using Microsoft Kinects

Kyushu University　　　Kenta Kozono

O-045　X-ray detector for real-time dose monitoring in interventional radiology

National Institute of Radiological Sciences　Fumihiko Nishikido

O-046　Antioxidant effect of transglycosylated rutin for irradiated CHO cell

The University of Tokyo　　Shigeaki Sunada

10. Photon/Electron Therapy 5 (QA/QC2)　　　　9:00–10:00　　　Moderator: Shimpei Hashimoto

0-047　Energy Spectrum Inference of clinical photon beam by use of PDD

Teikyo University　Jun'ichi Kotoku

0-048　Comparison between multiple facilities of depth dose, off-axis ratio and output factor using high-energy photon radiotherapy

Iwata City Hospital　Tomohiro Shimozato

0-049　Progress of TPS-QC supporting program by a third-party evaluation agency

National Cancer Center　Kyohei Fukata

0-050　Function as an independent quality assurance for designated regional cancer centers

National Cancer Center　Toshiyuki Minemura

0-051　Effectiveness of on-site IMRT measurements by a third party organization: An important role of third party evaluation

Ryukyu University　Yasumasa Kakinohana

0-052　Verification of the fundamental data about the polymer gel dosimeter for evaluating the pelvic organ dose in brachytherapy

National Institute of Radiological Sciences　Kuniaki Nabatame

11. Photon/Electron Therapy 6 (QA/QC3)　　　　10:00–11:00　　　Moderator: Suguru Dobashi

0-053　The characteristics of EPID for in-vivo dosimetry

The Tokyo University Hospital　Naoya Saotome

0-054　Analysis of post-irradiation growth effect for development of dose verification technique using a radiochromic film

Okayama University　Takuya Tsunehiro

0-055　Examination of measurement of irradiation field by difference of measurement modality

Iwate prefectural Isawa hospital　Koji Ishita

0-056　Clearance simulation of Gamma Knife radiosurgery with Leksell skull frame

Nagoya Kyoritsu Hospital　Hisato Nakazawa

0-057　Development of a collision detection simulator among treatment appratus for radiotherapy treatment planning

Kyoto College of Medical Science　Akira Sawada

0-058　Patient Collision Simulator for Non-coplanar Stereotactic Body Radiation Therapy

Washington University　Akito Saito

12. Photon/Electron Therapy 7 (VMAT)　　　　14:40–15:50　　　Moderator: Akira Sakumi

0-059　To Acquire Tumor Position in Thorax Lesion accompany with Breathing Movement Using EPID Images

Cancer Institute Hospital　Satoko Saotome

0-060　Verification of MLC motion during RapidArc delivery by use of an in-house program

Fujita Health University　Yumiko Adachi

0-061　Verification of irradiation parameters on VMAT for head and neck cancer

Seirei Hamamatsu General Hospital　Ryuuichi Yada

0-062　Dose reconstruction for moving targets in VMAT

The Cancer Institute Hospital　Masatoshi Hashimoto

0-063　Impact of MLC position errors for VMAT dose distributions

Tottori University Hospital　Yasushi Ono

0-064　Independent verification of dynamic machine parameters for VMAT QA using DICOM-RT

Hyogo College of Medicine　Hideharu Miura

15. Particle Therapy 1 (BNCT)   9:00–10:30   Moderator: Shunsuke Yonai

0-077   Status Report of Aizawa Hospital Proton Theraphy center Project Part1
        Aizawa Hospital Proton Therapy Center   Isamu Maeshima

0-078   Present Status of the SAGA-HIMAT Project
        SAGA-HIMAT Foundation   Mitsutaka Kanazawa

0-079   Status Report of Aizawa Hospital Proton Theraphy Center Project Part2
        Aizawa Hospital Proton Therapy Center   Yuya Sugama

0-080   Beam propety of Double-decker compact proton therapy system
        Sumitomo Heavy Industries, Ltd.   Daizo Amano

0-081   Proton beam tuning for the brest cancer treatment at the Medipolis Proton Therapy and Research Center
        Medipolis Proton Therapy and Research Center, Ibusuki City   Yuya Toi

0-082   Respiratory Rate and Synchrotron Pattern Cycle Dependence of Treatment Time
        Medipolis Medical Research Institute   Naoaki Kondo

0-083   Improving Efficiency of Proton Therapy by Utilizing a Rotating Gantry Port as a Horizontal Fixed Port
        Medipolis Medical Research Institute   Naoaki Kondo

0-084   Status of the Development of Acc-Based BNCT Irradiation System at a Down Town Hospital
        Kyoto University Research Reactor Institute   Tooru Kobayashi

0-085   Dose Estimation for Internal Organs in Body-trunk BNCT
        Kyoto University Research Reactor Institute   Yoshinori Sakurai

16. Particle Therapy 2 (PET)   14:40–15:50   Moderator: Teiji Nishio

0-086   Study of fragmentation reaction in the body for proton therapy
        Rikkyo University   Keiichiro Matsushita

0-087   Washout effect in RI beam irradiation of rat using small OpenPET
        National Institute of Radiological Sciences   Yoshiyuki Hirano

0-088   Clinical application of autoactivated PET-CT after Carbon Ion therapy in G.H.M.C.
        Gunma University Hospital   Takayoshi Ishii

0-089   The PET-based tumor tracking with error reduction method
        Chiba University   Tetsuya Shinaji

0-090   In-Beam Imaging Test of a Small Prototype for the Second Generation OpenPET
        National Institute of Radiological Sciences   Taiga Yamaya

0-091   Estimation of standard deviation of range in 3-D irradiation by using Fisher's Information
        Tokyo Institute of Technology   Yasunori Nakajima

0-092   A Monte Carlo simulation of real-time tumor tracking by the OpenPET: a feasibility study
        National Institute of Radiological Sciences   Hideaki Tashima

17. Particle Therapy 3 (QA/Measurement)   15:50–17:00   Moderator: Mutsumi Tashiro

0-093   Dose Measurement Program in Quality Assurance for Broad Beam Therapy at HIMAC
        National Institute of Radiological Sciences   Manabu Mizota

0-094   The positional accuracy of robotic arm treatment bed using Micrometer Drive
        National Cancer Center Hospital East   Tsunemichi Akita

0-095   Evaluation of the phantom for cone-beam CT to create CT number-linear stopping power ratio conversion table for proton treatment
        Tokyo Metropolitan University   Ryuta Hirai

18. Nuclear Medicine   9:10–9:50   Moderator: Hiroshi Watabe

0-100   Simulation study of an axially extendable multiplex cylinder PET
                                            National Institute of Radiological Sciences   Eiji Yoshida
0-101   Monte-Carlo simulation of sensitivity and NECR of a 2m-long PET scanner
                                            Tokyo Institute of Technology   Ismet Isnaini
0-102   Accuracy of Attenuation Coefficients with Dual Energy Virtual Monochromatic Imaging for SPECT Attenuation
        Correction
                                            Osaka University Hospital   Takashi Ueguchi
0-103   The Performance Evaluation of The Electron Tracking Compton Camera
                                            Kyoto University   Shinya Sonoda

19. Nuclear Medicine/MRI   10:00–10:50   Moderator: Toru Yamamoto

0-104   Development of an integrated PET/MRI detector: Evaluation of magnetic-field distortion caused by eddy-current
        in shield boxes
                                            Chiba University   Kodai Shimizu
0-105   Vascular properties obtained from spin-echo signal fluctuations in the human brain
                                            Hokkaido University   Minghui Tang
0-106   Development of a DOI-PET detector "X'tal cube": optimal position calculation for each optical condition in the
        scintillation crystal block
                                            National Institute of Radiological Sciences   Naoko Inadama
0-107   Performance of laser-processed X'tal cube PET detectors with reduced the numbers of SiPM readout surfaces
                                            National Institute of Radiological Sciences   Yoshiyuki Hirano
0-108   Optical simulation of a novel DOI detector with a stack of planer scintillators : Impact of surface roughness on
        spatial resolution
                                            Chiba University   Akane Gondo

20. Photon/Electron Therapy 9 (Treatment Planning)   14:40–15:50   Moderator: Kazunori Miyaura

0-109   The Potential of Virtual Non-Contrast CT for Radiotherapy Treatment Planning
                                            Osaka University Hospital   Sachiko Yamada
0-110   Development of an Open Source Platform for adaptive radiotherapy
                                            Teikyo University   Shinobu Kumagai
0-111   [Invited Speaker]   The Evaluation of Respiratory Errors and Breast Shape Changes from Set-up Errors on
        Tangential Whole Breast Irradiation
                                            The Catholic University of Korea,Korea   Seu-Ran Lee
0-112   Intrafractional prostate motion using fiduciary gold markers in hypofractionated IMRT
                                            Kitasato University Hospital   Minoru Ishigami
0-113   The evaluation of dose accumulation in replanning during the course of intensity modulated radiotherapy in head
        and neck region
                                            Osaka University   Masao Matsumoto
0-114   Study of treatment planning with split field technique in IMRT
                                            Gunma University Heavy Ion Medical Center   Motohiro Kawashima
0-115   Evaluation method of cumulative dose of organs at risk in head and neck IMRT using deformable image
        registration
                                            Tohoku University   Kazuhiro Arai

21. Photon/Electron Therapy 10 (Treatment Support)　　　15:50–17:10　　　Moderator: Hiroyuki Okamoto

O-116　Optimization method of beam directions based on similar cases in stereotactic body radiotherapy for lung cancers

Kyushu University　　Taiki Magome

O-117　Computer-Aided Delineation of Lung Tumor Regions in Treatment Planning CT Images by Localized Level Set Method Combined with PET/CT Images

Kyushu University　　Ze Jin

O-118　Automated method for monitoring of patient positioning during treatment time based on range images acquired from time-of-flight camera

Kyushu University　　Mazen Soufi

O-119　Actual method of SBRT for lung cancer in Ogaki Municipal Hospital

Ogaki Municipal Hospital　　Hitoshi Takagi

O-120　Development of three-dimensional summation method for rectal doses combined with seed implant brachytherapy and external beam radiotherapy for prostate cancer

Iwate Medical University　Satoshi Yamaguchi

O-121　Which is better for Patient?

Otsu Red Cross Hospital　　Makoto Hirata

O-122　Examination of the preliminary-treatment way of the bladder at prostate IMRT

Hitachinaka General Hospital　Yoshiyuki Kawasaki

O-181　[Invited Speaker]　Magnetic Resonance Imaging Based Treatment Planning for Brain tumor

Chulalongkorn University, Thailand　Kittipol Dachaworakul

22. Particle Therapy 4 (Scanning)   9:00–10:40   Moderator: Takeji Sakae

0-123   Measurement of neutron ambient dose equivalent in carbon-ion radiotherapy with active scanned beam
National Institute of Radiological Sciences   Shunsuke Yonai

0-124   Dependence of dose distortion on the scanning direction in proton beam therapy for a respiratorily moving target
University of Tsukuba Hospital   Satoshi Kamizawa

0-125   Commissioning of moving target irradiation with scanned-ion beam
National Institute of Radiological Sciences   Takuji Furukawa

0-126   Proposal of Intensity Modulated Composite Ion Therapy (IMCIT)
National Institute of Radiological Sciences   Taku Inaniwa

0-127   Development of IMPT optimization algorithm for proton therapy with fiducial markers
Hitachi Research Laboratory   Rintaro Fujimoto

0-128   Beam Technology and Its Stability Verification for Scanning Delivery at NIRS-HIMAC
National Institute of Radiological Sciences   Kota Mizushima

0-129   Report of a biological experiment with scanning beam in GHMC
Gunma University Heavy-Ion Medical Center   Eri Takeshita

0-130   Systematic evaluation of four-dimensional hybrid depth scanning for carbon-ion lung therapy
National Institute of Radiological Sciences   Shinichiro Mori

0-131   A study on a gated proton spot-scanning beam therapy integrated with a real-time tumor-monitoring: an initial phantom study using patient tumor trajectory data
Hokkaido University   Taeko Matsuura

0-132   A comparative study of dose distribution in proton spot scanning and that in patch irradiation
University of Tsukuba   Shohei Mizutani

23. Particle Therapy 5 (Simulation)   14:40–15:40   Moderator: Toshiyuki Toshito

0-133   Evaluation of impurity components of secondary particles generated in particle therapy equipment
Osaka University   Keita Kurosu

0-134   Nuclear Reaction Data for Particle Therapy
Osaka University   Takuma Horaguchi

0-135   Study of proton therapy simulation included effect of secondary particle generated in nuclear reaction
Rikkyo University   Seiichi Tamaki

0-136   A clinical use of Monte Carlo simulation in Nagoya Proton Therapy Center
Nagoya Proton Therapy Center   Chihiro Omachi

0-137   Development of Monte-Carlo dose calculation system based on the XiO$^{®}$ -N treatment planning system at Fukui prefectural hospital proton therapy center
Fukui Prefectural Hospital Proton Therapy Center   Yoshikazu Maeda

0-138   Monte Carlo study on reduction in the secondary neutron exposure in passive carbon-ion radiotherapy
Nagoya University   Akihiko Takeuchi

24. Particle Therapy 6 (Equipment, Treatment Planing)   15:50–17:00   Moderator: Toshiyuki Terunuma

0-139   Treatment planning for scanned charged particle beams - Finding an optimal 4DCT resolution
National Institute of Radiological Sciences   Silvan Zenklusen

0-140   Development of IMPT optimization algorithm for reducing sensitivity to range uncertainties in heterogeneous media
Hitachi Research Laboratory   Shusuke Hirayama

25. Photon/Electron Therapy 11 (Positioning)   9:00–10:10   Moderator: Mitsuhiro Nakamura

O-146   The evaluation of intra-fractional organ motion error and intra-factional setup error in radiation therapy for lung cancer with breath-holding

Aizawa Hospital Proton Therapy Center   Yuya Sugama

O-147   Registration accuracy for lung tumor verified by using in-treatment 4D cone-beam CT

The University of Tokyo Hospital   Akihiro Haga

O-148   Study of radiation treatment planning considering the lung function using 4D-CT ventilation imaging

Tohoku University   Sang Yong Cho

O-149   [Invited Speaker]   Improvement in accuracy of respiratory gated radiation therapy using respiratory guiding system

The Catholic University of Korea, Korea   Seong-Hee Kang

O-150   Development of a deformable lung phantom for quantitatively verifying deformation algorithms

Tohoku University   Yusuke Onozato

O-151   Study of CT value on CBCT for Adaptive Radiation Therapy

University of Tsukuba Hospital   Tatsuya Segawa

O-152   Development of support software for verifying accuracy of the lung tumor tracking system

Yokohama CyberKnife Center   Mitsuhiro Inoue

26. Photon/Electron Therapy 12 (Brachytherapy)   10:10–11:00   Moderator: Toshiyuki Ogata

O-153   Micro-focus X-ray imaging of I-125 brachytherapy sources for QC

Kitasato University   Tomoyuki Hasegawa

O-154   Development of strength evaluation method of moving sources for brachytherapy (3) Influence by source position and shield by needles

Sapporo Medical University   Kenichi Tanaka

O-155   Three-dimensional dose distribution of Ruthenium 106 brachytherapy for retinoblastoma

The University of Tokyo Hospital   Masahiko Futaguchi

O-156   Reconstruction accuracy of CT/MR applicator for cervix cancer brachytherapy: comparing manual and library modelling in CT imaging

University of the Ryukyus   Hussein ALMasri

O-157   Evaluation of the possibilities of predicting urinary and rectal damage after permanent seed implant

Fujita Health University Hospital   Yasunori Saito

27. Particle Therapy 7 (Others)   11:00–11:50   Moderator: Nobuyuki Kanematsu

O-158   The evaluation of 4D dose distribution used 4DCT for respiratory gated layer-stacking liver treatment.

National Institute of Radiological Sciences   Minoru Nakao

O-159   Design of beam specific target volume for particle therapy using fiducial marker

Nagoya Proton Therapy Center   Toshiyuki Toshito

O-160   Investigation of the range uncertainty in treatment planning caused by imaging with CT simulator

Nagoya City West Medical Center   Hiroki Shibata

O-161   Development of dynamic tumor locating system for accurate proton irradiation

Rikkyo University   Ryouta Noguchi

O-162   Development and verification of Bragg Peak locating system in patient body by proton irradiation

Rikkyo University   Tatsuhiko Suzuki

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28. Radiation Measurement 2 (Gel, TLD)　　　　　　　9:00–10:10　　　　Moderator: Takahiro Tominaga

O-163　LET Dependency of Glow Curve of Tissue Equivalent Phantom Thermoluminescence Dosimeter (TEP-TLD)

Chiba University　　Satoshi Tamatsu

O-164　Usefulness of TL Slab detector of central position detection for CyberKnife Beam

Tokyo Metropolitan University　　Daiki Maruyama

O-165　Characteristics of tissue-equivalent Thermoluminescense and Photoluminescense films

Juntendo University　　Chie Kurokawa

O-166　Investigation of VIPAR polymer gel dosimeter for dosimetric verification in the carbon ion beam therapy (2)

Nishina Center for Accelerator-Based Science, RIKEN　　Takuya Maeyama

O-167　Application of a polyacrylamide gel detector for dose measurements in a proton beam

Hiroshima International University　　Takahiro Tominaga

O-168　The Study of direct caliblation on the polymer gel detector's dose response by Gafcromic films

Hiroshima International University　　Mitsutoshi Tada

O-169　Report on the short-term study abroad to RMIT University

Hiroshima International University　　Satomi Nakahara

29. Radiation Measurement 3 (Babble, Scintillator, GM)　　　10:10–11:10　　　　Moderator: Akihiro Nohtomi

O-170　Development of a real-time dose measurement tool with a plastic scintillator for radiation therapy

Kitasato University　　Katsunori Yogo

O-171　Development of 4-D dosimetry tool using plastic scintillator

Rikkyo University　　Seiichi Tamaki

O-172　Development of a leak survey meter

Iwate Medical University　　Michiaki Sagae

O-173　Application of a superheated drop detector for the estimation of biological effectiveness for C-ion RT

Yokohama City University　　Osamu Yamamoto

O-174　High sensitive neutron-detection by an NaI scintillator (1) — Measurement at a research reactor

Kyushu University　　Akihiro Nohtomi

O-175　High sensitive neutron-detection by an NaI scintillator (2) — Measurement at a clinical linac

Kyushu University　　Eriko Yahiro

30. Radiation Measurement 4 (QA, Standard)　　　　　11:10–11:50　　　　Moderator: Tadahiro Kurosawa

O-176　A feasibility study for efficient daily routine using an EPID

University of the Ryukyus　　Akira Funyu

O-177　Development of XiO beam database

Elekta Japan K.K.　　Kazuyuki Wada

O-178　Absorbed dose standard for high-energy photons from a clinical linac

National Metrology Institute of Japan　　Morihito Shimizu

O-179　Dosimeter Calibration with Water Absorbed Dose by ANTM

Dose Calibration Center, Association for Nuclear Technology in Medicine　　Suoh Sakata