

演題ID	演題番号	演題名	発表言語	発表方法	発表日	セッション 開始時間	セッション 終了時間
10000	O-100	Practical Implementation of Failure Mode and Effects Analysis for Safety and Efficiency in Stereotactic Radiosurgery at NCCHE	日本語	口述	2020/4/12	10:30	11:50
10001	IS-135	Development of a correction method for megavoltage scatter-contaminated CBCT image acquired during rotational beam delivery	英語	口述	2020/4/12	8:00	9:10
10002	O-115	Measurement of the line spread function by sub-pixel sampling of disk phantom	日本語	口述	2020/4/12	14:20	14:50
10003	O-116	CT image reconstruction using nonlocal means filter	日本語	口述	2020/4/12	14:20	14:50
10004	O-117	Extraction of osteoblastic metastases images from the diagnostic CT image using diffusion equation	日本語	口述	2020/4/12	14:20	14:50
10005	O-071	Technological development of an ultrasonic CT system that does not use X-rays- Basic research of image acquisition-	英語	口述	2020/4/10	9:40	10:50
10006	O-073	Efficient QA of mechanical accuracy of HDR 192Ir source by high-speed camera in HDR brachytherapy	英語	口述	2020/4/10	15:10	15:50
10007	O-051	Development of absolute measurement method of W values of air for electron beams	日本語	口述	2020/4/9	14:00	15:00
10008	IS-061	Improved positioning protocol for patient setup accuracy in conventional radiotherapy for lung cancer	英語	口述	2020/4/10	10:50	11:50
10009	O-065	Numerical study of linear relationship between neutron dose and risk to cardiac implantable electronic devices in radiotherapy	英語	口述	2020/4/9	16:00	17:00
10010	O-044	Development of a dose rate dosimeter for X-ray CT scanner using a silicon X-ray diode	日本語	口述	2020/4/9	13:00	14:00
10011	O-108	Evaluation of electron Monte Carlo dose calculation algorithm in commercial treatment planning system	日本語	口述	2020/4/12	13:00	14:10
10012	O-064	Evaluation of neutron ambient dose equivalent in full energy scanning for carbon-ion radiotherapy.	英語	口述	2020/4/9	16:00	17:00
10013	O-046	Estimation of x-ray energy spectrum for CT scanner from percentage depth dose measurement	日本語	口述	2020/4/9	13:00	14:00
10014	O-047	Peak identification of B K X ray in EDS measurements by operating TES microcalorimeter mounted on SEM	日本語	口述	2020/4/9	13:00	14:00
10015	O-038	Evaluation of ionizing radiation induced DNA damage on a cell nucleus by integrated track structure Monte Carlo simulations using Geant4-DNA	英語	口述	2020/4/9	15:50	16:40
10016	O-028	A verification system of scattering effects in the patient body with Monte Carlo simulation	日本語	口述	2020/4/9	13:00	13:50
10017	O-060	Study of neutron detection based on the self-activation of iodobenzene added to liquid scintillator with different mass concentrations	英語	口述	2020/4/9	16:00	17:00
10018	O-102	Evaluation of metal artifact reduction using virtual monochromatic imaging by dual-energy CT and iterative metal artifact reduction algorithm	日本語	口述	2020/4/12	10:30	11:50
10019	IS-063	Monte Carlo dose calculation and estimation of second cancer risk by internal body scatter for out-of-field organs from breast radiotherapy	英語	口述	2020/4/10	10:50	11:50
10020	O-104	Evaluation of the basic characteristic of a new 2D diode detector array for small irradiation fields	日本語	口述	2020/4/12	10:30	11:50
10021	O-112	Verification for machine override of prostate VMAT in the same type of linacs with different carbon couch	日本語	口述	2020/4/12	13:00	14:10
10022	O-096	Study of improve low contrast using low-energy X-ray CT and iterative reconstruction in cerebral stroke phantom	日本語	口述	2020/4/11	15:20	16:30
10023	O-039	RBE calculation using radiobiological computation software 'Survival' for human salivary gland cell.	英語	口述	2020/4/9	15:50	16:40
10024	O-001	Prediction of radiation pneumonitis after lung stereotactic body radiation therapy using dose-based radiomics features: a retrospective multi-institutional study	英語	口述	2020/4/9	13:00	14:00
10025	O-063	Observation of neutron distribution at E3 port of KUR by the self-activation of a CsI plate with a CCD camera	英語	口述	2020/4/9	16:00	17:00
10026	IS-144	Investigation of radiophotoluminescent glass dosimeter response for therapeutic proton beam dosimetry	英語	口述	2020/4/12	10:10	10:50
10027	IS-062	Clinical feasibility of O-Ring linac for left breast irradiation with deep inspiration breath-hold volumetric modulated arc therapy	英語	口述	2020/4/10	10:50	11:50

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10028	O-022	Development of GAN-based synthetic brain CT image: What impact does increasing the training data have on the accuracy?	英語	口述	2020/4/9	16:00	17:00
10029	O-062	Development of neutron-shielding filter for reducing cardiac implantable electronic device malfunction	英語	口述	2020/4/9	16:00	17:00
10030	O-097	Triple-energy beam-hardening X-ray computed tomography using a constant-maximum digital amplifier	日本語	口述	2020/4/11	15:20	16:30
10031	IS-064	Investigation of dose perturbations around brachytherapy seeds in high-energy photon beams	英語	口述	2020/4/10	10:50	11:50
10032	O-093	A simple method for generating metal artifacts by processing the sinogram computed by forward projecting CT image	日本語	口述	2020/4/11	15:20	16:30
10033	O-085	Response of parallel-plate ionization chambers on the buildup dose measurement in inline magnetic fields	英語	口述	2020/4/11	14:05	15:05
10034	IS-136	Response of a radiophotoluminescent glass dosimeter in diagnostic kilovoltage x-ray beams	英語	口述	2020/4/12	9:10	10:00
10035	O-095	A feasible approach to correct MTF measured by the circular-edge method with image averaging in iterative reconstruction CT	日本語	口述	2020/4/11	15:20	16:30
10036	O-113	Investigation of Radiation Therapy for Prostate Cancer with Consideration on Physiological Organ Motion Contained in Target Volume	日本語	口述	2020/4/12	13:00	14:10
10037	IS-026	Determination of backscatter factors in diagnostic kilovoltage x-ray beams	英語	口述	2020/4/9	13:45	14:35
10038	IS-031	Cone-beam CT image reconstruction with spherical harmonics	英語	口述	2020/4/9	14:45	15:25
10039	O-105	Convergence control of electron beam for arbitrary field formation and its influence on dose distribution	日本語	口述	2020/4/12	10:30	11:50
10040	O-106	Basic study of the PVA-I flat gel dosimeter in star-shots	日本語	口述	2020/4/12	10:30	11:50
10041	O-098	High-sensitivity 850-nm-peak near-infrared-ray computed tomography with high spatial resolutions	日本語	口述	2020/4/11	15:20	16:30
10042	O-007	Radiomic-based prediction of malignant glioma grades using preoperative contrast-enhanced T1WIs and T2WIs.	英語	口述	2020/4/9	14:05	14:55
10043	O-074	Real-time imaging of Ir-192 source using high spatial resolution YAP(Ce) gamma camera for high-dose-rate brachytherapy	英語	口述	2020/4/10	15:10	15:50
10044	O-041	Imaging and range estimation of proton induced secondary electron bremsstrahlung X-rays using high sensitivity YAP(Ce) camera.	英語	口述	2020/4/9	15:50	16:40
10045	IS-027	Development of Automated Task Transfer Function Measurement Based on Circular Edge Method for Digital Intraoral Radiographic System	英語	口述	2020/4/9	13:45	14:35
10046	O-114	Predicted dose-volume histogram for prostate cancer using generalized principal component analysis	日本語	口述	2020/4/12	13:00	14:10
10047	O-027	Study for angular dependences of luminescence and Cherenkov light of water for dose estimation of therapeutic proton beam	日本語	口述	2020/4/9	13:00	13:50
10048	O-072	Fundamental study of new CT-based thermometry for visualization to deep temperature in human body	英語	口述	2020/4/10	9:40	10:50
10049	O-031	Evaluation of dosimetric advantages of using collimator with line scanning method of multi-purpose nozzle	日本語	口述	2020/4/9	14:00	14:50
10050	O-012	Development of webcam-based real time LASER IGRT system	英語	口述	2020/4/9	15:00	15:50
10051	IS-028	Energy calibration of photon-counting CT with K-edge absorption features	英語	口述	2020/4/9	13:45	14:35
10052	O-056	Spectrum measurement of luminescence of water by synchrotron radiation beam with lower energy than the Cerenkov-light threshold	英語	口述	2020/4/9	15:10	16:00
10053	O-043	A new method of generating higher-energy monochromatic x rays by using n-th harmonic diffraction	日本語	口述	2020/4/9	13:00	14:00
10054	O-086	Development of an original CT number calibration phantom for postal audit	英語	口述	2020/4/11	14:05	15:05
10055	IS-141	Dynamic gating window technique for the reduction of dosimetric error in respiratory-gated spot-scanning particle therapy	英語	口述	2020/4/12	10:10	10:50

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10056	O-034	Real-time volumetric image generation based on CT image deformation driven by displacement of internal fiducial markers	日本語	口述	2020/4/9	15:00	15:40
10057	O-013	Radiomic prediction of radiation pneumonitis in patients receiving stereotactic body radiation therapy for lung cancer	英語	口述	2020/4/9	15:00	15:50
10058	O-035	Image registration with spatially weighted mutual information for patient setup in proton therapy	日本語	口述	2020/4/9	15:00	15:40
10059	O-094	A method for evaluating the detrending technique in noise power spectrum measurements with a simplified CT image simulation	日本語	口述	2020/4/11	15:20	16:30
10060	O-029	An analysis on beam line selection on fixed Carbon-ion radiotherapy in SAGA HIMAT.	日本語	口述	2020/4/9	14:00	14:50
10061	O-087	A method to reduce the error due to the angular dependencies of Cerenkov-light for optical imaging of X-rays from LINAC	英語	口述	2020/4/11	14:05	15:05
10062	IS-143	Estimation of dose distributions from the luminescence image of water using U-net for particle therapy dosimetry	英語	口述	2020/4/12	10:10	10:50
10063	O-107	Estimation of cable leakage for megavoltage photon beam by Monte Carlo simulation and theoretical analysis	日本語	口述	2020/4/12	10:30	11:50
10065	O-109	Comparison of the target dose using phase gated and amplitude gated lung stereotactic radiotherapy	日本語	口述	2020/4/12	13:00	14:10
10066	O-032	Improvements dose calculations accuracy in the proton pencil beam scanning treatment planning system equipped with a commercial Monte Carlo algorithm	日本語	口述	2020/4/9	14:00	14:50
10067	O-025	Range verification of pulsed proton beams from FFA accelerator through ionoacoustic measurements	日本語	口述	2020/4/9	13:00	13:50
10068	O-017	Realtime 3D movie reconstruction algorithm using MR-linac by deep learning	英語	口述	2020/4/9	16:00	17:00
10069	O-042	Proton dose estimation using PET: extension of the ML-EM algorithm to inhomogeneous targets	英語	口述	2020/4/9	15:50	16:40
10070	IS-065	The dose reduction of CBCT for image registration based on projections using super-resolution	英語	口述	2020/4/10	10:50	11:50
10071	IS-080	Development of high resolution YAP(Ce) camera for imaging of astatine-211 (At-211)	英語	口述	2020/4/10	16:40	17:30
10072	O-088	New approach to calibrate the DMU accurately without measurement for the recent digital controllable linac (2nd report).	英語	口述	2020/4/11	14:05	15:05
10073	O-081	Comparison of a high sampling rate log file and a low sampling rate log file in VMAT	英語	口述	2020/4/11	13:00	14:00
10074	O-036	Evaluation of Patient-specific Quality Assurance for Spot-Scanning Carbon Ion Radiotherapy	日本語	口述	2020/4/9	15:00	15:40
10075	O-061	Development of real-time neutron detectors with the individual sensitivity for thermal, epithermal, and fast neutron in BCNT	英語	口述	2020/4/9	16:00	17:00
10076	O-054	Investigation of dosimetric accuracy and wide dynamic dose range of new thermoluminescent dosimeters for patient-specific quality assurance	日本語	口述	2020/4/9	14:00	15:00
10077	O-037	Construction of East Japan Heavy Ion Center, Faculty of Medicine, Yamagata University	日本語	口述	2020/4/9	15:00	15:40
10078	O-023	Automated dose generation for intensity-modulated radiation therapy using generative adversarial networks in prostate cancer patient	英語	口述	2020/4/9	16:00	17:00
10079	O-024	A Fano cavity test on Geant4 to simulate ionization chambers in carbon-ion beams	日本語	口述	2020/4/9	13:00	13:50
10080	O-018	Deep learning-based virtual non-contrast CT for treatment planning: Comparison with dual-energy CT-based approach	英語	口述	2020/4/9	16:00	17:00
10081	O-040	SLD repair impact on prolonged proton irradiation with various cell specific parameters	英語	口述	2020/4/9	15:50	16:40
10082	O-026	Prediction of dose images from secondary electron bremsstrahlung X-rays using advanced deep learning workflow	日本語	口述	2020/4/9	13:00	13:50
10084	IS-129	Dose rate influence on MLC position error and gamma pass rate in general purpose linear accelerator	英語	口述	2020/4/12	8:00	9:10
10085	IS-138	Reading Uncertainty of Optically Stimulated Luminescence Dosimeter using a High Energy Photon Beam	英語	口述	2020/4/12	9:10	10:00

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10086	O-045	Accuracy evaluation of DC charge source for electrometer calibration	日本語	口述	2020/4/9	13:00	14:00
10087	O-080	A new workflow of appropriate planning for VMAT using patient specific template with geometrical ideal dose distribution	英語	口述	2020/4/11	13:00	14:00
10088	O-011	Automatic stratification of prostate cancer patients using SVM built with MR image features	英語	口述	2020/4/9	14:05	14:55
10089	O-101	Comparison between EBT3 film and VIPET gel dosimeter	日本語	口述	2020/4/12	10:30	11:50
10090	IS-029	Triple-sensitivity X-ray CT using a cadmium-telluride detector and its beam-hardening effect	英語	口述	2020/4/9	13:45	14:35
10091	O-003	Distinguishability between lymph nodes and metastasis from head and neck cancer using image features calculated on CT images	英語	口述	2020/4/9	13:00	14:00
10092	IS-039	Cancerous-region visualization utilizing a meglumine-gadopentetate-glucose solution and 7.0-T MRI	英語	口述	2020/4/9	16:20	17:00
10093	IS-030	Photon-counting triple-energy X-ray computed tomography utilizing beam hardening	英語	口述	2020/4/9	13:45	14:35
10095	O-092	Application of task-based spatial resolution assessment to nuclear medicine	日本語	口述	2020/4/11	15:10	15:30
10096	O-069	Electromagnetic simulation analysis of the RF burn injury due to an ECG lead	日本語	口述	2020/4/10	9:40	10:50
10097	IS-142	Target boundary tracking on BEV by patient-specific deep learning	英語	口述	2020/4/12	10:10	10:50
10098	O-099	Development of vascular dynamic phantom for multi-modality	日本語	口述	2020/4/11	15:20	16:30
10099	O-068	Observation of intracellular oxygen concentration changes in MRI signal	日本語	口述	2020/4/10	9:40	10:50
10100	O-033	Clinical Analysis of Dose-averaged LET Calculation in Carbon-Ion Radiotherapy for Head and Neck Cancer	日本語	口述	2020/4/9	14:00	14:50
10101	O-083	Automatic multistep fluence modification for electric irregular surface compensation using scripting API	英語	口述	2020/4/11	13:00	14:00
10102	IS-032	Compton Imaging with median root prior expectation-maximization (MRP-EM)	英語	口述	2020/4/9	14:45	15:25
10104	O-075	Imaging Cherenkov emission for quality assurance of high-dose-rate brachytherapy	英語	口述	2020/4/10	15:10	15:50
10105	O-014	Monte Carlo study on annihilation photons and related background produced in X-ray therapy	英語	口述	2020/4/9	15:00	15:50
10106	O-110	Improvement of dose distribution by adjusting beam parameters based on organ contours during a course of radiotherapy using optimization algorithm	日本語	口述	2020/4/12	13:00	14:10
10107	O-019	Automatic target segmentation for whole breast irradiation using 3D-UNet	英語	口述	2020/4/9	16:00	17:00
10108	O-015	Dosimetric characterization of small field electron beams shaped with a real time variable shape rubber containing tungsten collimator	英語	口述	2020/4/9	15:00	15:50
10109	O-103	Analytic source model of kilovoltage cone-beam CT for Monte Carlo dose calculations	日本語	口述	2020/4/12	10:30	11:50
10110	O-020	Effect of the type of input image on prognostic prediction accuracy using deep learning radiomics in lung cancer patients	英語	口述	2020/4/9	16:00	17:00
10111	O-049	How to make a PVA-I radiochromic gel dosimeter	日本語	口述	2020/4/9	14:00	15:00
10112	O-091	Technetium-95 and technetium-96 imaging tests using electron-tracking compton camera	日本語	口述	2020/4/11	15:10	15:30
10113	O-050	Characteristics of the single crystal synthetic diamond detector for electron beams	日本語	口述	2020/4/9	14:00	15:00
10114	O-053	Variation of dose gradient in buildup region depending on ion chamber type	日本語	口述	2020/4/9	14:00	15:00
10115	IS-077	Demonstration of small animal Compton imaging by a whole gamma imaging (WGI) prototype	英語	口述	2020/4/10	16:40	17:30

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10116	O-005	Feasibility of convolutional-neural-networks-based segmentation of HCC region with transfer learning for lung cancer	英語	口述	2020/4/9	13:00	14:00
10117	O-111	Relationship between the number of iteration and dose distribution	日本語	口述	2020/4/12	13:00	14:10
10118	O-008	Prediction of axillary lymph node metastasis of breast cancer using radiomics features in MRI images.	英語	口述	2020/4/9	14:05	14:55
10120	IS-140	Study on the effective point of the cylindrical ionization chamber in the measurement of carbon absorbed dose 4	英語	口述	2020/4/12	9:10	10:00
10121	O-089	Development of the scintillator imaging system for measurement of 3D dose distribution	英語	口述	2020/4/11	14:05	15:05
10122	O-002	Radiomic robustness assessment to respiratory motion on average intensity projection images	英語	口述	2020/4/9	13:00	14:00
10123	O-009	MR-radiomic biopsy for prediction of malignancy grade in parotid gland cancer	英語	口述	2020/4/9	14:05	14:55
10124	IS-078	Head-to-head comparison of performance characteristics between two helmet-type PET prototypes	英語	口述	2020/4/10	16:40	17:30
10125	IS-076	Development of a two-layer staggered detector for a scatterer of whole gamma imaging	英語	口述	2020/4/10	16:40	17:30
10126	O-082	Development of automatic calculation of target registration error: Surface-based target registration error	英語	口述	2020/4/11	13:00	14:00
10127	O-021	A study of building deep learning based new super resolution system for exposure dose reduction	英語	口述	2020/4/9	16:00	17:00
10128	IS-139	Possibility of clinical applications for the method of measuring current for high energy electron beams	英語	口述	2020/4/12	9:10	10:00
10129	O-090	Characterization of microSilicon diode detector for electron beam dosimetry	英語	口述	2020/4/11	14:05	15:05
10130	O-030	Effectiveness of non-coplanar irradiation using 45-degree oblique port in heavy ion radiotherapy for head and neck cancer	日本語	口述	2020/4/9	14:00	14:50
10132	IS-079	Monte Carlo simulation of a proposed partial-ring PET geometry with Compton detector reducing image artifacts	英語	口述	2020/4/10	16:40	17:30
10133	O-048	Thermal and epithermal neutron measurements using thermoluminescence phosphor Cr doped Al ₂ O ₃ and Cd converter	日本語	口述	2020/4/9	13:00	14:00
10134	O-052	PDD measurements of electron beams with a reusable radiochromic gel dosimeter	日本語	口述	2020/4/9	14:00	15:00
10135	O-010	Exploration of image features associated with ruptures of intracranial aneurysms using magnetic resonance angiography	英語	口述	2020/4/9	14:05	14:55
10136	O-057	Evaluation of energy and time characteristics using Liquinert processed CeBr3 crystals	英語	口述	2020/4/9	15:10	16:00
10137	O-055	A study of a prompt gamma-ray imaging detector using an 8 x 8 array LaBr3(Ce) scintillator and MPPC for BNCT	英語	口述	2020/4/9	15:10	16:00
10138	O-079	Improvement of the robustness to the interplay effect due to respiratory-induced tumor motion in VMAT using MLC aperture shape smoothing	英語	口述	2020/4/11	13:00	14:00