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<td>The effectiveness of prostate-mapping using in-room CT in carbon ion radiotherapy for prostate tumor without fiducial markers</td>
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<td>O2 ventilation by three-dimensional dose distribution measurement using cylindrical plastic scintillator and cao amera</td>
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<td>Effect of grid size on dose distribution verification with a two-dimensional detector for small irradiation field</td>
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<td>Dynamic effects of air pockets around vaginal cylinder in HDR-Brachytherapy with heterogeneous corrected dose calculation</td>
<td>Japanese</td>
<td>Radiation Therapy (Photon/Electron) : Brachytherapy and Others</td>
<td>April 16 (Fri)</td>
<td>10:00-10:50</td>
<td>Conference center 418</td>
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<td>10070</td>
<td>IS-26</td>
<td>Evaluation of the position resolution of a prompt gamma-ray imaging detector with an arrayed Si&lt;sub&gt;18&lt;/sub&gt;N&lt;sub&gt;3&lt;/sub&gt;(Ca) scintillator and HPGe for BNCT</td>
<td>English</td>
<td>Radiation Measurement : Particle</td>
<td>April 16 (Fri)</td>
<td>14:00-14:50</td>
<td>Conference center 501</td>
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<td>10071</td>
<td>O-4</td>
<td>Use measurements for biological experiments using synchrotron-based ultra-high dose rate proton beam in Nagoya Proton Therapy Center</td>
<td>Japanese</td>
<td>Radiation Therapy (Particle) : Proton and BNCT</td>
<td>April 15 (Tue)</td>
<td>15:00-15:50</td>
<td>Conference center 418</td>
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<td>10072</td>
<td>O-51</td>
<td>Evaluation of shielding calculation accuracy and optimization simulation of shielding wall using monte carlo-based simulations in tomotherapy</td>
<td>English</td>
<td>Radiation Therapy (Photon/Electron) : Monte Carlo</td>
<td>April 18 (Sun)</td>
<td>09:00-09:40</td>
<td>Conference center 418</td>
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<td>10073</td>
<td>O-55</td>
<td>Dose distribution measurement in the treatment plan of CyberKnife using two-dimensional poly(vinyl alcohol)-iodide gel dosimeter</td>
<td>Japanese</td>
<td>Radiation Measurement/Radiation Protection : Radiation Measurement1</td>
<td>April 18 (Sun)</td>
<td>09:50-10:40</td>
<td>Conference center 418</td>
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<td>10074</td>
<td>IS-8</td>
<td>Hypothalamic nucleus visualization using magnesium-gadopentetate-glucose solution and 7.0-T magnetic resonance imaging</td>
<td>English</td>
<td>Diagnostic Technology-1</td>
<td>April 15 (Thu)</td>
<td>14:55-15:35</td>
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<td>10075</td>
<td>IS-30</td>
<td>Radial LET Measurements for Therapeutic Carbon Pencil Beam</td>
<td>English</td>
<td>Particle therapy : Carbon Ion</td>
<td>April 16 (Fri)</td>
<td>09:00-09:50</td>
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<td>10076</td>
<td>IS-24</td>
<td>The activation properties of C60 crystal on neutron detection by the self-activation method with an iodine-containing scintillator</td>
<td>English</td>
<td>Radiation Measurement : Particle</td>
<td>April 16 (Fri)</td>
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<td>10077</td>
<td>IS-67</td>
<td>Can biological washout rate be a biomarker of tumor viability in charged particle therapy? A rat in-beam PET study</td>
<td>English</td>
<td>Nuclear Medicine-2</td>
<td>April 17 (Sat)</td>
<td>11:00-11:40</td>
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<td>10078</td>
<td>O-8</td>
<td>Clinical evaluation of EBRT-weighted dose and dose-averaged LET in patients receiving carbon ion radiotherapy for head and neck adenoid cystic carcinoma</td>
<td>Japanese</td>
<td>Radiation Therapy (Particle) : Proton and Heavy Ion</td>
<td>April 15 (Thu)</td>
<td>16:00-17:00</td>
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<td>10079</td>
<td>O-48</td>
<td>Photon source model based on particle transport in a parameterized accelerator structure for Monte Carlo dose calculations of FFF beams</td>
<td>Japanese</td>
<td>Radiation Therapy (Photon/Electron) : Monte Carlo</td>
<td>April 18 (Sun)</td>
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<td>10080</td>
<td>O-20</td>
<td>Off-axis Winston-Lutz test for a single-isocenter stereotactic irradiation in L-shape lnc</td>
<td>Japanese</td>
<td>Radiation Therapy (Photon/Electron) : QA and Others</td>
<td>April 16 (Fri)</td>
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<td>10081</td>
<td>O-25</td>
<td>Simple evaluation of the accuracy of irradiation position for single isocenter multiple target stereotactic radiotherapy</td>
<td>English</td>
<td>Radiation Therapy (Photon/Electron) : Brachytherapy and Others</td>
<td>April 16 (Fri)</td>
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<td>10082</td>
<td>IS-10</td>
<td>Evaluation of Neutron ambient dose equivalent in intensity modulated composite particle therapy</td>
<td>English</td>
<td>Radiation Protection-1</td>
<td>April 15 (Thu)</td>
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<td>10083</td>
<td>IS-21</td>
<td>Development and feasibility of a simple portable body surface monitoring device using an infrared camera in radiotherapy</td>
<td>English</td>
<td>Radiation Therapy : Brachytherapy and Others</td>
<td>April 15 (Thu)</td>
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<td>10084</td>
<td>O-47</td>
<td>Evaluation of scattered radiation dose of the contralateral breast in breast-conserving therapy</td>
<td>English</td>
<td>Radiation Therapy (Photon/Electron) : AI and Treatment Planning</td>
<td>April 17 (Sat)</td>
<td>13:50-14:55</td>
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<td>10085</td>
<td>O-12</td>
<td>Ig-data based patient specific quality assurance for heavy-ion therapy</td>
<td>Japanese</td>
<td>Radiation Therapy (Particle) : Heavy Ion</td>
<td>April 15 (Thu)</td>
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<td>10086</td>
<td>O-40</td>
<td>Electromagnetic simulation analysis of an RP burn injury case on a tattoo</td>
<td>English</td>
<td>Diagnostic Imaging (X-ray/Magnetic Resonance/Diagnostic Imaging/others) : Diagnostic Technology</td>
<td>April 17 (Sat)</td>
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<td>10087</td>
<td>O-49</td>
<td>Determination of scaling factors of a newly water-equivalent phantom for electron beam using Monte Carlo simulation</td>
<td>English</td>
<td>Radiation Therapy (Photon/Electron) : Monte Carlo</td>
<td>April 18 (Sun)</td>
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<td>10088</td>
<td>IS-102</td>
<td>Brief measurement of high energy neutrons generated from a carbon ion beam</td>
<td>English</td>
<td>Particle therapy : Miscellaneous</td>
<td>April 18 (Sun)</td>
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<td>10089</td>
<td>IS-43</td>
<td>Denoising and contrast enhancement of MVCT using deep learning-based methods</td>
<td>English</td>
<td>Image Informatics</td>
<td>April 16 (Fri)</td>
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<td>10090</td>
<td>O-13</td>
<td>Approximation simulation of carbon ion radiotherapy for moving target to validate condition and strategy on Osaka-NIMAK</td>
<td>Japanese</td>
<td>Radiation Therapy (Particle) : Heavy Ion</td>
<td>April 15 (Thu)</td>
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<td>10091</td>
<td>O-14</td>
<td>Overview of carbon ion radiotherapy for prostate cancer using fiducial markers in Osaka HIMAK</td>
<td>Japanese</td>
<td>X33. Radiation Therapy (Particle) : Heavy Ion</td>
<td>April 15 (Thu)</td>
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<td>10092</td>
<td>IS-33</td>
<td>A Monte Carlo study of physical dose perturbation of carbon ion beam in water with Gold Anchor</td>
<td>English</td>
<td>X17. Particle therapy: Carbon Ion</td>
<td>April 16 (Fri)</td>
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<td>10093</td>
<td>IS-32</td>
<td>Development of log file-based Monte Carlo calculation method for patient-specific QA in carbon-ion radiotherapy</td>
<td>English</td>
<td>X27. Particle therapy: Carbon Ion</td>
<td>April 16 (Fri)</td>
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<td>10094</td>
<td>O-22</td>
<td>Investigation of optimal physical density derivation when using solid phantom</td>
<td>Japanese</td>
<td>X24. Radiation Therapy (Photon/Electron) : QA and Others</td>
<td>April 16 (Fri)</td>
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<td>10095</td>
<td>O-46</td>
<td>Dosimetric characteristics at the surface with metallic and plastic biliary stents in external beam radiotherapy</td>
<td>Japanese</td>
<td>X29. Radiation Therapy (Photon/Electron) : QA and Treatment Planning</td>
<td>April 17 (Sat)</td>
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<td>10096</td>
<td>O-29</td>
<td>Experimental study of the dose distribution in the phase and amplitude gating lung SBRT with the baseline shift</td>
<td>English</td>
<td>X26. Radiation Therapy (Photon/Electron) : SBRT</td>
<td>April 16 (Fri)</td>
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<td>10097</td>
<td>O-56</td>
<td>Investigating the Effect of Glass on UVC Cameras Using Monte Carlo Simulation</td>
<td>Japanese</td>
<td>X1.1 Radiation Measurement/Radiation Protection : Radiation Measurement1</td>
<td>April 18 (Sun)</td>
<td>09:50-10:40</td>
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<td>10098</td>
<td>IS-16</td>
<td>Small field dosimetry using a Roos-type ionization chamber</td>
<td>English</td>
<td>X26. Radiation Therapy (Photon/Electron) : SBRT</td>
<td>April 15 (Thu)</td>
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<td>10099</td>
<td>IS-110</td>
<td>Development of a dose distribution shifter to fit inside the collimator of a BNCT irradiation system to treat superficial tumours</td>
<td>English</td>
<td>X14. Radiation Therapy: Miscellaneous</td>
<td>April 18 (Sun)</td>
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<td>10100</td>
<td>IS-69</td>
<td>Dual round-edge detector arrangement for breast PET: a proof of concept study</td>
<td>English</td>
<td>X15. Nuclear Medicine-2</td>
<td>April 17 (Sat)</td>
<td>11:00-11:40</td>
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<td>10101</td>
<td>O-30</td>
<td>Deviations in dose distribution due to tracking errors in the treatment of shrunken lung tumors</td>
<td>Japanese</td>
<td>X36. Radiation Therapy (Photon/Electron) : SBRT</td>
<td>April 16 (Fri)</td>
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<td>10102</td>
<td>O-19</td>
<td>Development of a versatile patient-specific QA phantom that also supports non-coplanar beams</td>
<td>Japanese</td>
<td>X34. Radiation Therapy (Photon/Electron) : QA and Others</td>
<td>April 16 (Fri)</td>
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<td>10103</td>
<td>IS-65</td>
<td>Comprehensive risk management using PHMRA in MR image guided on-line adaptive radiation therapy</td>
<td>English</td>
<td>X14. Radiation therapy: Miscellaneous</td>
<td>April 17 (Sat)</td>
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<td>10104</td>
<td>IS-34</td>
<td>Filtering and gridless approach: imaging dose reduction for real-time-image gated particle therapy</td>
<td>English</td>
<td>X28. Particle therapy: Evaluation</td>
<td>April 16 (Fri)</td>
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<td>10105</td>
<td>O-11</td>
<td>Evaluation of distorted lateral beam profiles in MRI-guided proton therapy</td>
<td>English</td>
<td>X32. Radiation Therapy (Particle) : Proton and Heavy Ion</td>
<td>April 15 (Thu)</td>
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<td>10106</td>
<td>IS-66</td>
<td>Experimental verification of the effect of the full-ring geometry in WLS Compton imaging</td>
<td>English</td>
<td>X15. Nuclear Medicine-2</td>
<td>April 17 (Sat)</td>
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<td>Triple-sensitivity high-spatial-resolution X-ray computed tomography using a 0.1-mm-focus tube and its beam-hardening effect</td>
<td>English</td>
<td>X32. Diagnostic Technology-1</td>
<td>April 15 (Thu)</td>
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<td>O-7</td>
<td>Treatment of large tumor for patch-field technique with a beam wobbling method</td>
<td>Japanese</td>
<td>X32. Radiation Therapy (Particle) : Proton and Heavy Ion</td>
<td>April 15 (Thu)</td>
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<td>10110</td>
<td>O-5</td>
<td>Hybrid dose calculation algorithm for BNCT based on a combination of Monte Carlo and superposition methods</td>
<td>Japanese</td>
<td>X31. Radiation Therapy (Particle) : Proton and BNCT</td>
<td>April 15 (Thu)</td>
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<td>IS-56</td>
<td>Quantification of uncertainty associated with image registration of MR-CT for prostate radiotherapy: rationale for MR alone radiotherapy</td>
<td>English</td>
<td>IS13. Radiotherapy: Treatment Planning</td>
<td>April 17 (Sat)</td>
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<td>IS-44</td>
<td>Radiogenomic imaging biopsy for EGFR-Mutated Patients with Non-Small Cell Lung Cancer based on contrast CT images using Invariant Betti Numbers</td>
<td>English</td>
<td>IS10. Image Informatics</td>
<td>April 16 (Fri)</td>
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<td>Estimation of tumor growth trajectories during TKI targeted therapy based on Gompertz model</td>
<td>English</td>
<td>IS17. Image Informatics/Medical Information/Education - Image Informatics and Medical Information</td>
<td>April 17 (Sat)</td>
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<td>Study of tumor estimation using machine learning from small data as pre-screening tool prior to MRI for PIB patient selection</td>
<td>English</td>
<td>IS18. Particle therapy: Evaluation</td>
<td>April 16 (Fri)</td>
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<td>Characterization of radio waste and radiation dose assessment of TRIGA Mark-II research reactor in Bangladesh</td>
<td>English</td>
<td>IS3. Radiation Protection-1</td>
<td>April 15 (Thu)</td>
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<td>Estimation of tumor growth trajectories during TKI targeted therapy based on Gompertz model</td>
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<td>IS7. Image Informatics/Medical Information/Education - Image Informatics and Medical Information</td>
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<td>Characterization of the elemental concentration of Bangladesh medicinal plants using the proton-induced X-ray emission technique</td>
<td>English</td>
<td>IS3. Radiation Protection-1</td>
<td>April 15 (Thu)</td>
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<td>20007</td>
<td>IS-41</td>
<td>South Asia Centre for Medical Physics and Cancer Research (SACMP): A Centre of Excellence to Fight Against Cancer</td>
<td>English</td>
<td>IS9. Medical Information and Education</td>
<td>April 16 (Fri)</td>
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<td>IS-45</td>
<td>Prediction of the position of external markers on the chest and abdomen for latency compensation in radiotherapy</td>
<td>English</td>
<td>IS10. Image Informatics</td>
<td>April 16 (Fri)</td>
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<td>IS-106</td>
<td>Bragg Peak verification in Proton Beam Therapy with PEM</td>
<td>English</td>
<td>IS25. Particle therapy: Miscellaneous</td>
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<td>IS-57</td>
<td>Validation of Robust Optimization Approach of VMAT Treatment Planning of Stereotactic Body Radiation Therapy of Lung Cancer</td>
<td>English</td>
<td>IS13. Radiotherapy: Treatment Planning</td>
<td>April 17 (Sat)</td>
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<td>Sustainable lead-free shielding material made of eco-composite plastic waste reinforced with nanoparticles tungsten carbide for radiation protection: A review</td>
<td>English</td>
<td>IS3. Radiation Protection-1</td>
<td>April 15 (Thu)</td>
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<td>Determination of the elemental concentration of Bangladesh medicinal plants using the proton-induced X-ray emission technique</td>
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<td>An attempt to reduce the background ESR signal in human fingernails for monitoring accidental hand exposures</td>
<td>English</td>
<td>IS3. Radiation Protection-1</td>
<td>April 15 (Thu)</td>
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