

## CONTENTS

<b>Analytical Properties of the Molière Simultaneous Distribution between the Deflection Angle and the Lateral Displacement</b>	1
<i>T. Nakatsuka and K. Okei</i>	
<b>Charged Particle Transport Calculation with GPU</b>	8
<i>K. Okei and T. Nakatsuka</i>	
<b>Comparison of Several Monte Carlo Codes with Electron Backscattering Experiments</b>	14
<i>Y. Kirihara, Y. Namito, H. Hirayama, and H. Iwase</i>	
<b>Design Study for Monochromatic X-Ray Tube Using EGS5</b>	22
<i>S. Yoshida</i>	
<b>Estimation of Radioactivity Produced in Cooling Water for High Energy Electron Linear Accelerator Facility</b>	25
<i>T. Itoga and Y. Asano</i>	
<b>Evaluation for Non-Uniformity Effect of a Large Spherical Chamber Using EGS5 Code</b>	30
<i>Y. Unno, T. Kurosawa, Y. Sato, T. Yamada, A. Yunoki, and Y. Hino</i>	
<b>Evaluation of Counting Efficiency of Whole-Body Counter Using “MAX06” Voxel Phantom</b>	34
<i>M. Takahashi, S. Kinase, and R. Kramer</i>	
<b>Monte Carlo Simulation CT</b>	41
<i>S. Kitou, K. Hanai, and Y. Obata</i>	
<b>Development and Validation of a Monte Carlo Modeling of Millennium MLC</b>	47
<i>Y. Ishihara, T. Yamamoto, Y. Miyabe, T. Mizowaki, Y. Narita, S. Yano, T. Teshima, and M. Hiraoka</i>	
<b>Investigation for the calculation of absolute dose exposed from a brachytherapy source with Monte Carlo simulation</b>	54
<i>H. Shibata, K. Tabushi, K. Narihisa, Y. Aoyama, and Y. Obata</i>	
<b>The Accuracy of Calculation Using Radiation Treatment Planning System with Titanium in a Human Body</b>	61
<i>K. Yasui, T. Shimozato, Y. Aoyama, K. Okudaira, R. Kawanami, K. Habara, H. Shibata, T. Oshima, and Y. Obata</i>	
<b>Improvement of a Specially Designed Shielding Plate for Intraoperative Electron Beam Radiotherapy of Breast Cancer</b>	67
<i>T. Oshima, Y. Aoyama, T. Shimozato, K. Tabushi, and Y. Obata</i>	

<b>Comparison of PDD Curves Obtained by Therapeutic Films and Calculated by EGS5</b>	76
<i>R. Kawanami, C. Nejigaki, T. Shimozato, K. Yasui, K. Habara, K. Okudaira, Y. Aoyama, H. Shibata, T. Oshima, and Y. Obata</i>	
<b>The Estimation of Dose Distribution of MRI-LINAC with EGS4</b>	81
<i>H. Itoh, Y. Narita, Y. Iwashita, M. Hiraoka, and A. Noda</i>	
<b>Photon Energy Spectra in Water Phantom: Monte Carlo Simulation Study with EGS5</b>	89
<i>S. Miyajima and K. Shinsho</i>	
<b>Investigation on Photon Energy Response of Amorphous Silicon EPID Using a Monte Carlo Method</b>	101
<i>Y. Fujita, H. Saitoh, and A. Myojoyama</i>	
<b>Evaluation of Patient Dose in Cerebral Angiography Examinations</b>	106
<i>Y. Emoto and S. Koyama</i>	
<b>Validation of Point Dosimetry in Organ Dose Estimation in Anthropomorphic Phantom</b>	113
<i>T. Nakagawa and S. Koyama</i>	
<b>Measurement of Monochromatic Radiation Using a Si Detector and Comparison with EGS5 Simulations</b>	117
<i>Y. Kirihara, Y. Namito, M. Hagiwara, and H. Hirayama</i>	