

Publications in 2001

1 JOURNAL PAPER/PROCEEDINGS

- J. Kawarabayashi, M. P. Mardiyanto, A. Uritani, T. Iguchi, J. Kaneko, and H. Takeuchi, "Digital Waveform Analysis for ^3He Ionization Chamber", IEEE TRANSACTIONS ON NUCLEAR SCIENCE, 48, 527-529,(2001)
- R. Naka, K. Watanabe, J. Kawarabayashi, A. Uritani, T. Iguchi, N. Hayashi, N. Kojima, T. Yoshida, J. Kaneko, H. Takeuchi, and T. Kakuta, "Radiation Distribution Sensing With Normal Optical Fiber", IEEE TRANSACTIONS ON NUCLEAR SCIENCE, 48, 2348-2351, (2001)
- Mardiyanto MANGUN PANITRA, Akira URITANI, Jun KAWARABAYASHI and Tetsuo IGUCHI, Energy Spectrum Improvement for CdZnTe Semiconductor Detector Based on Euclidian Distance with Digital-Analog Hybrid Signal Processing System Journal of Nuclear Science and Technology, 38, 301-305, (2001)
- Mardiyanto MANGUN PANITRA, Akira URITANI, Jun KAWARABAYASHI, Tetsuo IGUCHI and Hirota SAKAI, Pulse Shape Analysis on Mixed Beta Particle and Gamma-ray Source Measured by CdZnTe Semiconductor Detector by means of Digital-Analog Hybrid Signal Processing Method, Journal of Nuclear Science and Technology, 38, 306-311, (2001)
- M.P. Mardiyanto, A. Uritani, H. Sakai, J. Kawarabayashi, T. Iguchi, Pulse shape analysis based on similarity with digital // analog fusion method, Nuclear Instruments and Methods in Physics Research A, 462, 405-410, (2001)
- H. Sakai, A. Uritani, C. Mori and T. Iguchi, Pulse Shape Recognition for CdZnTe Semiconductor Detector by using Multi-Shaping Amplifiers Method with Neural network Algorithm, IEEE Nuclear Science Symposium Conference Record 2001, 661-665, (2001)
- T. Iguchi, S. Iizuka, et al., Conceptual Design of Compact Neutron Camera with Directional Neutron Detector for Nuclear Fusion Experiment, Fus. Technol., 39, 1147-1151, (2001)
- Y. Shibata, T. Iguchi, et al., Time-of-flight neutron spectrometer for JT-60U Rev.Sci. Instrum., 72, 828-831, (2001)
- 柴田泰成、井口哲夫、瓜谷章、河原林順、Magnus Hoek、西谷健夫、森岡篤彦, JT-60Uにおける飛行時間型中性子スペクトロメータ, 放射線, 27, 23-30, (2001)
- C. MORI, A. URITANI, T. Iguchi, S. HAYASHI, H. KOBAYASHI, Y. TAKAMI, I. KIMURA, M. KATAGIRI, T. KAKUTA, Development of a Neutron and Gamma-Ray Flux Distribution Measurement System with Scintillator and Optical Fiber Combination, Reactor Dosimetry: Radiation Metrology and Assessment, ASTM STP1398, 769-774, (2001)

- Uritani, Y. Makihara, T. Iguchi, et al., Novel Neutron Spectrometer with Response of Wide Energy Range, Reactor Dosimetry: Radiation Metrology and Assessment, ASTM, STP1398, 698-705, (2001)
- K. Kobayashi, T. Iguchi, et al., Assessment of the Revised JENDL Dosimetry File," Reactor Dosimetry: Radiation Metrology and Assessment, ASTM STP1398, 385-392, (2001)
- Kenichi WATANABE, Tetsuo IGUCHI, Toshiyuki OGITA, Akira URITANI, Hideki HARANO, Development of Failed Fuel Detection and Location Technique Using Resonance Ionization Mass Spectrometry, Journal of Nuclear Science and Technology, 38, 844-849, (2001)
- Hideki Harano, Chikara Ito, Kenichi Watanabe, Tetsuo Iguchi, Development of a RIMS-based FFDL system at the experimental fast reactor JOYO, International Journal of Applied Electromagnetics and Mechanics, 14(1-4), 307-310 (2001/2002)
- Hideki Harano, Shoichi Nose, Kazuhiro Ito, Kenichi Watanabe, and Tetsuo Iguchi Laser resonance ionization mass spectrometry for failed fuel detection and location in the experimental fast reactor JOYO, AIP Conf. Proc., 584, 125-129, (2001)
- K. Watanabe, T. Iguchi, Optimization of trace element analysis using Resonant Laser Ablation, AIP Conf. Proc., 584, 135-140, (2001)
- Kawarabayashi, J. ; Kadoi, T. ; Watanabe, K. ; Uritani, A. ; Iguchi, T., Single electron transistor for cryogenic detector read-out, IEEE Nuclear Science Symposium Conference Record 2001, 784-786, (2001)

2 THESIS

2000 年度修士論文

- 牧原 康裕 宇宙船搭載用単一減速球型中性子モニタの開発
- 中 亮太郎 通常光ファイバーを用いた強放射線分布センシングに関する基礎研究
- 寿山 大介 微細加工による微小円錐型電極を用いた放射線画像検出器の開発
- 田淵 明輝 尽性蛍光体とマルチピンホールコリメータを用いた複眼式ガンマカメラの開発
- 恒川 裕輔 共鳴レーザーアブレーションを用いた極微量核変換生成物検出法に関する基礎研究

2000 年度博士論文

- Mardiyanyo Mangun Panitra “Advanced Pulse Shape Analysis for Nuclear Radiation Detector Based on Digital-Analog Signal Fusion”