

# Publications in 2000

## 1 JOURNAL PAPER/PROCEEDINGS

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- M.P. Mardiyanto, A. Uritani, H. Sakai, J. Kawarabayashi, T. Iguchi, "Improvement of energy spectrum characteristics of CdZnTe semiconductor detector with a digital/analog fusion method", Nuclear Instruments and Methods in Physics Research A, 441, 483-488, (2000)
- K. Watanabe, T. Iguchi, et al., Development of Failed Fuel Detection and Location Technique Using Resonance Ionization Mass Spectrometry: Improvement of the Detection Limit with Pulsed Supersonic Valve, KEK Proc. 14th WS on Radiation Detectors and Their Uses, 2000-14, 183-190, (2000)
- H. Itadzu, T. Iguchi, et al., Evaluation of Response Function of 16"×16"×4" Large-sized NaI Scintillation Detector for Environmental Gamma-ray Survey, KEK Proc. 2nd Int. WS on EGS, 2000-20, 250-254 (2000)
- 井口哲夫、渡辺賢一、他、レーザー共鳴イオン化質量分析法を用いた高速炉の燃料破損検出法に関する基礎研究, サイクル機構技報, 2000(9), 79-88, (2000)
- D. Suyama, J. Kawarabayashi, A. Uritani and T. Iguchi, Micro cone detector IEEE Nuclear Science Symposium Conference Record 2000, 81-83, (2000)
- 中亮太郎、河原林順、瓜谷章、井口哲夫、金子純一、竹内浩、角田恒巳、通常光ファイバーを用いた放射線分布センシングに関する基礎研究, 放射線, 26 2 71 76 (2000)
- 寿山大介、河原林順、瓜谷章、井口哲夫、円錐状突起電極型放射線画像検出器 (Micro Cone Detector) の開発, 放射線, 26, 77, (2000)
- T. Iguchi, S. Iizuka, A. Uritani, and J. Kawarabayashi Development of directional neutron detector for compact fast neutron camera, IEEE Nuclear Science Symposium Conference Record, 2000, 207-210, (2000).
- Kawarabayashi, J. ; Mardiyanto, M.P. ; Uritani, A. ; Iguchi, T. ; Kaneko, J. ; Takeuchi, H., Digital waveform analysis for  $^3\text{He}$  ionization chamber, IEEE Nuclear Science Symposium Conference Record, 2000, 193-195, (2000).
- Naka, R. ; Kawarabayashi, J. ; Uritani, A. ; Iguchi, T. ; Kaneko, J. ; Takeuchi, H. ; Kakuta, T., Radiation distribution sensing with normal optical fiber, IEEE Nuclear Science Symposium Conference Record, 2000, 231-233, (2000).

## 2 THESIS

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### 1999 年度修士論文

- 小津 智明 自律分散・協調型ロボット放射線センシング手法の基礎研究
- 飯塚 慎一 核融合反応生成粒子を用いたプラズマ計測法に関する基礎研究
- 荻田 利幸 共鳴イオン化質量分析法を用いた破損燃料検出システムの基礎研究