

Publications in 2005

1 JOURNAL PAPER/PROCEEDINGS

- H. Tomita, K. Watanabe, J. Kawarabayashi, T. Iguchi, N. Nariyama, "Development of high dose rate sensing method based on cavity ring-down laser spectroscopy," J. Nucl. Sci. Technol. 42, 673-677 (2005).
- Iguchi, T. Kawarabayashi, J. Watanabe, K. Kenjyo, H. Uritani, A. Development of compact Compton gamma camera for non-destructive detection and location of hidden explosives with neutron induced prompt gamma-ray imaging, IEEE Nuclear Science Symposium Conference Record 2005, 735-739, (2005)
- H. Tomita, K. Watanabe, J. Kawarabayashi and T. Iguchi, Novel dose rate monitoring for intense radiation fields based on cavity ring-down laser spectroscopy, IEEE Transactions on Nuclear Science, 52, 1685-1688, (2005)
- 渡辺賢一, 井口哲夫, 共鳴イオン化質量分析法を用いた同位体計測, 化学工業, 56, 630-633, (2005)
- H. Tomita, Y. Takiguchi, K. Watanabe, J. Kawarabayashi, T. Iguchi, Radioactive Gas Monitoring Using Cavity Ring-down Laser Spectroscopy with CW Infrared Diode Laser, J. Radiation Protection Bulletin., Proc. ISORD-3, 179-182, (2005)
- K. Watanabe, J. Karabayashi, T. Iguchi, T. Nishitani, Development of Trace Transmutation Products Detection Technique Based on Resonant Laser Ablation Mass Spectrometry, J. Radiation Protection Bulletin., Proc. ISORD-3, 196-198, (2005)
- J. Kawarabayashi, K. Watanabe, T. Iguchi, Liquid Light Guide as Distributed Radiation Sensor, J. Radiation Protection Bulletin., Proc. ISORD-3, 203-205, (2005)
- T. Iguchi, J. Kawarabayashi, K. Watanabe, H. Kenjo, A. Uritani, Development of Compact Compton Gamma Camera for Anti-personnel Landmine Detection with Neutron Induced Prompt Gamma-ray Imaging, Proc. of the IARP Int. W.S. on Robotics and Mechanical Assistance in Humanitarian Demining (HUDEM2005), 110-113, (2005)
- Y. Higuchi, K. Watanabe, J. Kawarabayashi, T. Iguchi, Trace Isotope Analysis Using Resonance Ionization Mass Spectrometry Based on Isotope Selection with Doppler Shift of Laser Ablated Atoms, KEK Proceedings, 2005-12, 170-176, (2005)
- M. Miyata, H. Tomita, K. Watanabe, J. Kawarabayashi, T. Iguchi, Development of TOF-PET Based on Cherenkov Radiation Detection, KEK Proceedings, 2005-12, 88-94, (2005)

2 THESIS

2004 年度修士論文

- 青木克憲, "単電子トランジスタ・マイクロカロリメータ方式による超高分解能放射線画像検出素子の開発"
- 乾大佑, "有機液体シンチレータと波長シフトファイバーを用いた放射線イメージセンサーの開発"
- 見城弘章, "BGO シンチレータスタックを用いたマルチコンプトンガンマカメラの開発"