

Publications in 2004

1 JOURNAL PAPER/PROCEEDINGS

- H. Kenjo, J. Kawarabayashi, K. Watanabe and T. Iguchi, "Development of directional detector for high-energy gamma rays using stacked BGO scintillators", KEK Proceedings, Volume2004-14, p175-181 (2004).
- D. Inui, M. Mizuno, K. Watanabe, J. Kawarabayashi, T. Iguchi and T. Nishitani, "Fast neutron image sensor using organic liquid scintillator and wavelength shifting fiber", KEK Proceedings, Volume2004-14, p160-165 (2004).
- H. Tomita, K. Watanabe, J. Kawarabayashi and T. Iguchi, "Development of new radiation remote-sensing method based on cavity ring-down laser spectroscopic measurement of radiation induced radicals", KEK Proceedings, Volume2004-14, p81-89 (2004).
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- 乾大佑, 水野良治, 渡辺賢一, 河原林順, 井口哲夫, 西谷健夫, 「液体シンチレータと波長シフトファイバーを組み合わせた高速中性子イメージセンシング技術の開発」、放射線 30 (2004) 171-178.
- D. Inui, T. Iguchi, K. Watanabe, J. Kawarabayashi, T. Nishitani, "Development of fusion neutron camera using organic liquid scintillator and wavelength shifting fiber", Rev. Sci. Instrum., 75 (10), 3578 - 3580 (2004).
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- T. Aoyama, T. Iguchi and 4 others, Evaluation of Neutron Dose to Radiotherapy Patients Treated with 10 MV X-Ray Beams Based on Photoneutron Spectrometry, Jpn.J. Health Phys., 39, 130-137, (2004)
- Hideki Tomita, Kenichi Watanabe, Jun Kawarabayashi and Tetsuo Iguchi, Development of novel radiation remote-sensing method based on laser spectroscopic measurement of radiation induced radicals, Proceedings of SPIE, 5198, 281-288, (2004)
- 井口哲夫, 渡辺賢一, 河原林順, 瓜谷章, 榎田洋一, 渡部和男, 共鳴レーザーアブレーションを用いた超高感度中性子ドシメトリ手法に関する基礎研究, JAERI-Tech, 2004-010, (2004)

- T. Iguchi, J. Kawarabayashi, K. Watanabe, K. Nishimura, T. Handa and H. Sawamura, Development of Advanced Neutron Induced Prompt Gamma-ray Analysis System for Survey of Anti-personnel Mines , Proceedings on 16th World Conference on NDT (WCNDT 2004), 664-669, (2004).

2 THESIS

2003 年度修士論文

- 浅井 啓輔 核融合実験炉用中性子発生量モニタリングシステムの詳細設計
- 大西 広泰 即発ガンマ線分析手法に基づく対人地雷探知模擬実験と解析
- 尾方 智洋 DD 核融合中性子計測系のためのトレーサビリティ技術の高度化
- 水野 良治 光ファイバーを用いた放射線分布センサーの高機能化研究