

# Publications in 2014

## 1 JOURNAL PAPER/PROCEEDINGS

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- K. Watanabe, Y. Kondo, A. Yamazaki, A. Uritani, T. Iguchi, N. Kawaguchi, K. Fukuda, S. Ishizu, T. Yanagida, Y. Fujimoto, A. Yoshikawa, Study on Fast Luminescence Component Induced by Gamma-rays in Ce Doped LiCaAlF<sub>6</sub> Scintillators, *Rad. Meas.*, **71**, 158-161, (2014).
- Yosuke Yamamoto, Hideki Tomita, Mitsutaka Isobe, Mun Seong Cheon, Kunihiro Ogawa, Fumitaka Yamashita, Jun Kawarabayashi, Tetsuo Iguchi, Neutronics Design on DD Neutron Spectrometer for KSTAR *Progress in Nuclear Science and Technology*, **4**, 679-681, (2014).
- Kohei Ishihara, Jun KAWARABAYASHI, Hideki TOMITA, Tatsuhiro NAKA, Takashi ASADA, Kunihiro MORISHIMA, Mitsuhiro NAKAMURA, Shigetaka MAEDA, and Tetsuo IGUCHI, Investigation of development condition with NGITA emulsion for neutron measurement under high gamma-ray background, *Progress in Nuclear Science and Technology*, **4**, 661-664, (2014).
- Shigetaka Maeda, Chikara Ito, Kohei Ishihara, Keisuke Takagi, Haruna Minato, Yousuke Sakai, Jun Kawarabayashi, Hideki Tomita and Tetsuo Iguchi, Development of neutron spectrum unfolding method for advanced nuclear emulsion, *Progress in Nuclear Science and Technology*, **4**, 665-669, (2014).
- Yoshihiro Iwata, Chikara Ito, Hideki Harano, Tetsuo Iguchi, Performance evaluation of a resonance ionization mass spectrometer developed for the FFDL system of fast reactors, *Journal of Nuclear Science and Technology*, **51**, 465-475, (2014).
- Takuma Noto, Yosuke Sakai, Hideki Tomita, Jun Kawarabayashi, Tatsuhiro Naka, Kunihiro Morishima, Toshiyuki Nakano, Mitsuhiro Nakamura, Tetsuo Iguchi, Alpha track analysis using nuclear emulsions as a preselecting method for safeguards environmental sample analysis, *Radiation Measurements*, **71**, 533-536, (2014).
- Kunihiro OGAWA, Mitsutaka Isobe, Eiji Takada, Yuuki Uchida, Kentaro Ochiai, Hideki Tomita, Akira Uritani, Takashi Kobuchi, and Yasuhiko Takeiri, *Progress in Development of the Neutron Profile Monitor for the Large Helical Device*, *Rev. Sci, Instrum.*, **85**, 11E110, (2014).
- H. Tomita, F. Yamashita, Y. Nakayama, K. Morishima, Y. Yamamoto, Y. Sakai, M.S. Cheon, M. Isobe, K. Ogawa, S. Hayashi, J. Kawarabayashi and T. Iguchi, *Progress in development of neutron energy spectrometer for deuterium plasma operation in KSTAR*, *Rev. Sci, Instrum.*, **85**, 11E120, (2014).
- Yuuki Uchida, Eiji Takada, Akihiro Fujisaki, Mitsutaka Isobe, Kunihiro OGAWA, Kouji Shinohara, Hideki Tomita, Jun Kawarabayashi, and Tetsuo Iguchi, A study on fast digital discrimination of neutron and gamma-ray for improvement neutron emission profile measurement, *Rev. Sci, Instrum.*, **85**, 11E118, (2014).
- T. Takamatsu, H. Tomita, T. Takatsuka, Y. Adachi, Y. Furuta, K. Wendt, V. Sonnenschein, T. Noto, T. Iguchi, T. Sonoda and M. Wada, Off-line Experiment of High resolution Resonance Ionization

Spectroscopy on Titanium using Injection-locked Ti:Sapphire Laser System, RIKEN Accelerator Progress Report, **47**, 40, (2014).

- T. Sonoda, H. Iimura, M. Wada, I. Katayama, Y. Adachi, T. Noto, T. Takamatsu, T. Takatsuka, H. Tomita, F. Schneider, K. Wendt, F. Arai, Y. Itou, P. Schury and the SLOWRI collaboration, New laser system installation for PALIS, RIKEN Accelerator Progress Report, **47**, 210, (2014).
- Dai Sugimoto, Kenichi Watanabe, Katsuya Hirota, Atushi Yamazaki, Akira Uritani, Tetsuo Iguchi, Kentaro Fukuda, Sumito Ishidu, Noriaki Kawaguchi, Takayuki Yanagida, Yutaka Fujimoto, Akira Yoshikawa, Hiroyuki Hasemi, Kouichi Kino, Yoshiaki Kiyonagi, Neutron TOF Experiments Using Transparent Rubber Sheet Type Neutron Detector with Dispersed Small Pieces of LiCaAlF<sub>6</sub> Scintillator, Physics Procedia, **60**, 349-355, (2014).

## 2 THESIS

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