

放射性同位元素研究室 RADIOISOTOPE Lab.

1. 原著論文

(1) Refereed Journals

- 1) S. Nishimura, H. A. Torii, Y. Fukao, T. U. Ito, M. Iwasaki, S. Kanda, K. Kawagoe, D. Kawall, N. Kawamura, N. Kurosawa, Y. Matsuda, T. Mibe, Y. Miyake, N. Saito, K. Sasaki, Y. Sato, S. Seo, P. Strasser, T. Suehara, K. S. Tanaka, T. Tanaka, J. Tojo, A. Toyoda, Y. Ueno, T. Yamanaka, T. Yamazaki, H. Yasuda, T. Yoshioka, K. Shimomura, “Rabi-oscillation spectroscopy of the hyperfine structure of muonium atoms”, *Phys. Rev. A* **104**, L020801 (2021).
- 2) Y. Sano, H. A. Torii, “Simulation of Information Spreading on Twitter Concerning Radiation After the Fukushima Nuclear Power Plant Accident”, *Frontiers in Physics* **9**, 640733 (2021).
- 3) K. S. Tanaka, M. Iwasaki, O. Kamigaito, S. Kanda, N. Kawamura, Y. Matsuda, T. Mibe, S. Nishimura, N. Saito, N. Sakamoto, S. Seo, K. Shimomura, P. Strasser, K. Suda, T. Tanaka, H. A. Torii, A. Toyoda, Y. Ueno, M. Yoshida, “Development of microwave cavities for measurement of muonium hyperfine structure at J-PARC”, *Prog. Theor. and Exp. Phys.* **2021**, 053C01 (2021).
- 4) S. Kanda, Y. Fukao, Y. Ikedo, K. Ishida, M. Iwasaki, D. Kawall, N. Kawamura, K. M. Kojima, N. Kurosawa, Y. Matsuda, T. Mibe, Y. Miyake, S. Nishimura, N. Saito, Y. Sato, S. Seo, K. Shimomura, P. Strasser, K. S. Tanaka, T. Tanaka, H. A. Torii, A. Toyoda, Y. Ueno, “New precise spectroscopy of the hyperfine structure in muonium with a high-intensity pulsed muon beam”, *Phys. Lett. B* **815**, 136154 (2021).
- 5) B. Kolbinger, C. Amsler, S. Arguedas Cuendis, H. Breuker, A. Capon, G. Costantini, P. Dupré, M. Fleck, A. Gligorova, H. Higaki, Y. Kanai, V. Kletzl, N. Kuroda, A. Lanz, M. Leali, V. Mäkel, C. Malbrunot, V. Mascagna, O. Massiczek, Y. Matsuda, D.J. Murtagh, Y. Nagata, A. Nanda, L. Nowak, B. Radics, C. Sauerzopf, M. C. Simon, M. Tajima, H. A. Torii, U. Uggerhøj, S. Ulmer, L. Venturelli, A. Weiser, M. Wiesinger, E. Widmann, T. Wolz, Y. Yamazaki, J. Zmeskal, “Measurement of the principal quantum number distribution in a beam of antihydrogen atoms”, *Eur. Phys. J. D* **75**, 91 (2021).

2. 総説・解説

- 1) 佐野幸恵, 鳥居寛之: 「SNSデータを用いた情報拡散シミュレーション」, シミュレーション (日本シミュレーション学会 学会誌) **40**(3), 137-143 (2021).

3. 著書

- 1) M. Kanai, K. Tonami, H. Tozawa, “Statistical Analysis of Cellular Directional Movement: Application for Research of Single Cell Movement” in “Mathematical Modeling for Genes to Collective Cell Dynamics”, edited by T. Tokihiro (Springer, 2021), pp.143-160.

4. その他

- 1) 鳥居寛之: インタープリターズ・バイブル第171回「納得と説得」, 東京大学学内広報, **1552**, 25 (2021).
- 2) 鳥居寛之: 「放射線の科学 ～物理・生命科学から環境問題まで～」, 高エネルギー加速器研究機構主催 第15回 大学生・高専生のための素粒子・原子核スクール「サマーチャレンジ」講義資料 (2021).
- 3) H. A. Torii, Lecture Materials Book, Official Book and Lecturer’s Feedback for Training Trainers Workshop 2021 Japan (TTWS2021JPN-RP), Hosted by Science and Technology Information Forum (STIF) Japan, Organized by International Atomic Energy Agency (IAEA) at University of Tokyo, Aug.5th–Sep.1st (2021).