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- 4) Ion-Beam Analysis of Bombardment Effect of 10-to-100-eV C60 Ions on a Si Surface, K. Narumi, *11th Special Meeting on Surface and Interface Analysis by Ion-Beam*, Nagoya, Japan (2010).
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Research Group for Mechanical Control of Materials and Spin Systems

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- 5) Inverse Spin-Hall effect induced by spin pumping in various metals, K. Ando, Y. Kajiwara, K. Sasage, K. Uchida, and E. Saitoh, *IEEE transactions on magnetics*, **46**, 1331-1333 (2010).
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- 15) Inverse Spin-Hall effect induced by spin pumping in different size Ni₃Fe₂O₄/Pt films, H. Nakayama, K. Ando, K. Huri, Y. Fujikawa, Y. Kajiwara, T. Yoshino, and E. Saitoh, *J. Phys.: Cof. Ser.* **266**, 012100-1-01-21004 (2010).
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- 17) Quantifying spin mixing conductance in FePt/(F=Ni, Fe, and Ni₂Fe₁₉) bilayer film, T. Yoshino, K. Ando, K. Huri, H. Nakayama, Y. Kajiwara, and E. Saitoh, *J. Phys.: Cof. Ser.* **266**, 012151-01-21154-0 (2010).
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- 2) Effect of the orientation of projectile nuclei on the synthesis of superheavy elements, K. Nishio, *Nuclear Data News* **98**, 34-43 (2011) (in Japanese).

Invited Talks

- 1) Shell-model approach to exotic nuclei—description by monopole-based universal interaction and development of a new MCMS code, Y. Utomo, *ECT* Workshop "Reactions and Nuclear Properties in Rare Isotopes"*, Trento, Italy (2010).
- 2) Multiplicity and energy of neutrons from ²³¹(n_{γ})fission fragments, K. Nishio, *Workshop of the Espace de Structure Nucléaire Théorique, The scission process : the last stage of nuclear fission*, Cedex, France (2010).
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- 4) Effects of nuclear orientation on fusion and fission process for reactions using ²³⁸U target nuclei, K. Nishio, *The 24th International Nuclear Physics Conference 2010*, Vancouver, Canada (2010).
- 5) Fission dynamics in heavy ion collisions on ²³⁸U, K. Nishio, *Scientific Workshop on Nuclear Fission and Dynamics and the Emission of Prompt Neutrons and Gamma Rays*, Sinaia, Romania (2010).

- 6) Study for fusion-fission and quasifission in reactions using ²³⁸U target nucleus, K. Nishio, *International Symposium on Quasifission Process in Heavy Ion Reactions*, Messina, Italy (2010).

- 7) Towards petascale nuclear-structure calculation: shell-model case, Y. Utomo, *French-Japanese Symposium on Nuclear Structure Problems*, Wako, Japan (2011).

Research Group for Superheavy Elements

Posters

- 1) Extraction Chromatographic Behavior of Rf, Zr, and Hf in HCl Solution with Styrene-Divinylbenzene Copolymer Resin Modified by TOPO (Tritylphosphonium Oxide), A. Toyoshima, Y. Kasamatsu, K. Tsukada, M. Asai, Y. Ishii, H. Tomie, I. Nishimaka, T. K. Sato, Y. Nagame, M. Schädel, H. Haba, S. Goto, H. Kudo, K. Akiyama, Y. Oura, K. Ooe, A. Shinohara, K. Sueki, and J. V. Kratz, *Radiochim. Acta* **98**, 7-12 (2010).
- 2) In-beam γ-ray spectroscopy or ²³⁸,²³⁹U⁺ by neutron-transfer reactions using a Cf target, R. Takahashi, T. Ishii, M. Asai, D. Nagae, H. Makii, K. Tsukada, A. Toyoshima, Y. Ishii, M. Matuda, A. Makishima, T. Shizuma, T. Kohno, and M. Ogawa, *Phys. Rev. C* **81**, 057303-1-057303-4 (2010).
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- 4) Nuclear orientation in the reaction ³⁴S + ²³⁸U and synthesis of the new isotope ²⁰⁸He, K. Nishio, S. Hofmann, F. P. Hessberger, D. Ackermann, S. Antalic, Y. Arimoto, V. F. Hernandez, C. B. Comas, Ch. E. Döllmann, A. Gorshkov, R. Graeber, K. Hagiue, S. Heinz, J. A. Heredia, K. Hirose, H. Ikezoe, J. Khuyagbaatar, B. Kindler, I. Kojuharov, B. Lommel, R. Mann, S. Mitsuka, Y. Nagame, I. Nishimaka, T. Ohtsuki, A. G. Popko, S. Sano, M. Schädel, A. Türlér, W. Tynan, B. Lommel, K. Malata, P. Maierbeck, A. Musumura, T. Nilsson, P. Perlo, N. Ustilsky, M. Venhart, and A. V. Yeremin, *Phys. Rev. C* **82**, 024611-1-024611-9 (2010).
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Invited Talks

- 1) Strategy for approaching superheavy-nucleus spectroscopy, M. Asai, *2010 Autumn Meeting of the Physical Society of Japan*, Kitakyushu, Japan (2010).
- 2) Chemistry of superheavy elements—Experimental achievements and perspectives, M. Schädel, *The 54th Symposium on Radiochemistry*, Saita, Japan (2010).

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- 5) Electrochemistry of the heaviest elements, A. Toyoshima, *Pacificchem 2010*, Honolulu, USA (2010).

Research Group for Actinide Materials Science

Posters

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Papers

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