

## 誌 上 発 表 Publications

## [雑誌]

(原著論文) \* 印は査読制度がある論文誌

- Moller P., Ragnar B., Carlsson G., Olivius P., Ichikawa T., Sagawa H., and Iwamoto A.: "Axial and reflection asymmetry of the nuclear ground state", *Atomic Data and Nuclear Data Tables* **94**, 758–780 (2008). \*
- Ito M. and Itagaki N.: "Unified studies of nuclear reactions and exotic structures in  $^{12}\text{Be}$ ", *Int. J. Mod. Phys. E* **12**, No. 10, pp. 2061–2066 (2008). \*
- Ito M. and Itagaki N.: "Covalent, Ionic, and Atomic Structures in  $^{12}\text{Be}$ ", *Mod. Phys. Lett. A* **24**, No. 11-13, pp. 1005–1008 (2009). \*
- Kondo Y., Nakamura T., Sato Y., Matsumoto T., Aoi N., Endo N., Fukuda N., Gomi T., Hashimoto Y., Ishihara M., Kawai S., Kitayama M., Kobayashi T., Matsuda Y., Matsui N., Motobayashi T., Nakabayashi T., Ogata K., Okumura T., Ong H., Onishi T., Otsu H., Sakurai H., Shimoura S., Shinohara M., Sugimoto T., Takeuchi S., Tamaki M., Togano Y., and Yanagisawa Y.: "One-neutron removal reactions of  $^{18}\text{C}$  and  $^{19}\text{C}$  on a proton target", *Phys. Rev. C* **79**, No. 014602, pp. 014602-1–014602-7 (2009). \*
- Ichikawa T., Iwamoto A., and Moller P.: "Origin of the narrow, single peak in the fission-fragment mass distribution for  $^{258}\text{Fm}$ ", *Phys. Rev. C* **79**, 014305-1–014305-6 (2009). \*
- Yamada T., Funaki Y., Horiuchi H., Roepke G., Schuck P., and Suzuki A.: "Internal One-Particle Density Matrix for Bose-Einstein Condensates with Finite Number of Particles in a Harmonic Potential", *Phys. Rev. C* **79**, 054314-1–054314-11 (2009). \*
- Matsuo M. and Nakatsukasa T.: "Open problems in nuclear structure near drip lines", *J. Phys. G* **37**, No. 6, pp. 064017-1–064017-10 (2010). \*
- Hashimoto K., Izuka N., and Nakatsukasa T.: "N-body nuclear forces at short distances in holographic QCD", *Phys. Rev. D* **81**, 106003-1–106003-5 (2010). \*
- Tanaka K., Yamaguchi T., Suzuki T., Ohtsubo T., Fukuda M., Nishimura D., Takechi M., Ogata K., Ozawa A., Izumikawa T., Aiba T., Aoi N., Baba H., Hashizume Y., Inafuku K., Iwasa N., Kobayashi K., Komuro M., Kondo Y., Kubo T., Matsuyama T., Michimasa S., Motobayashi T., Nakabayashi T., Nakazima S., Nakamura T., Sakurai H., Shinoda R., Shinohara M., Suzuki H., Takeshita E., Takeuchi S., Togano Y., Yamada K., Yasuno T., and Yhoshitake M.: "Observation of a large reaction cross-section in the drip-line nucleus  $^{22}\text{C}$ ", *Phys. Rev. Lett.* **104**, No. 6, pp. 062701-1–062701-4 (2010). \*
- Hinohara N., Sato K., Nakatsukasa T., and Matsuo M.: "Local QRPA vibrational and rotational inertial functions for large-amplitude quadrupole collective dynam- ics", *Acta Phys. Pol. B* **42**, 443–446 (2011). \*
- Nakatsukasa T., Avogadro P., Ebata S., Inakura T., and Yoshida K.: "Self-consistent description of nuclear photoabsorption cross-sections", *Acta Phys. Pol. B* **42**, 609–618 (2011). \*
- Nomura K., Otsuka T., Shimizu N., and Guo L.: "Derivation of IBM Hamiltonian for deformed nuclei", *J. Phys.: Conf. Ser.* **267**, No. 1, pp. 012050-1–012050-6 (2011). \*
- Nakatsukasa T.: "Density functional approaches to atomic nuclei", *J. Phys.: Conf. Ser.* **302**, 012050-1–012050-6 (2011). \*
- Ebata S., Nakatsukasa T., and Yabana K.: "Linear response calculation using the canonical-basis TDHFB with a schematic pairing functional", *J. Phys.: Conf. Ser.* **312**, 092023-1–092023-6 (2011). \*
- Pinilla E. C., Baye D., Descouvemont P., Horiuchi W., and Suzuki Y.: "Tests of the discretized-continuum method in three-body dipole strengths", *Nucl. Phys. A* **865**, 43–56 (2011). \*
- Kosuke N., Takaharu O., Shimizu N., and Guo L.: "Microscopic formulation of the interacting boson model for rotational nuclei", *Phys. Rev. C* **83**, No. 4, pp. 041302-1–041302-5 (2011). \*
- Yoshida K. and Hinohara N.: "Shape changes and large-amplitude collective dynamics in neutron-rich Cr isotopes", *Phys. Rev. C* **83**, No. 6, pp. 061302-1–061302-5 (2011). \*
- Inakura T., Nakatsukasa T., and Yabana K.: "Emergence of pygmy dipole resonances: Magic numbers and neutron skins", *Phys. Rev. C* **84**, No. 2, pp. 021302-1–021302-4 (2011). \*
- Nguyen D. D.: "Shear-viscosity to entropy-density ratio from giant dipole resonances in hot nuclei", *Phys. Rev. C* **84**, No. 3, pp. 034309-1–034309-12 (2011). \*
- Nguyen H. Q. and Nguyen D. D.: "Pairing reentrance in hot rotating nuclei", *Phys. Rev. C* **84**, No. 5, pp. 054324-1–054324-8 (2011). \*
- Hinohara N., Sato K., Yoshida K., Nakatsukasa T., Matsuo M., and Matuyanagi K.: "Shape fluctuations in the ground and excited  $0^+$  states of  $^{30,32,34}\text{Mg}$ ", *Phys. Rev. C* **84**, No. 6, pp. 061302-1–061302-5 (2011). \*
- Avogadro P. and Nakatsukasa T.: "Finite amplitude method for the quasi-particle-random-phase approximation", *Phys. Rev. C* **84**, 014314-1–014314-7 (2011). \*
- Waldecker S. J., Barbieri C., and Dickhoff W. H.: "Microscopic self-energy calculations and dispersive optical-model potentials", *Phys. Rev. C* **84**, 034616-1–034616-11 (2011). \*
- Stoitsov M., Kortelainen M., Nakatsukasa T., Losa C., and Nazarewicz W.: "Monopole strength function of deformed superfluid nuclei", *Phys. Rev. C* **84**, 041305-1–041305-5 (2011). \*
- Feldmeier H., Horiuchi W., Neff T., and Suzuki Y.: "Universality of short-range nucleon-nucleon correlations",

- Phys. Rev. C **84**, 054003-1–054003-13 (2011). \*
- Watanabe H., Yamakuchi K., Odahara A., Sumikama T., Nishimura S., Yoshinaga K., Li Z., Miyashita Y., Sato K., Prochniak L., Baba H., Berryman J. S., Blasi N., Bracco A., Camera F., Chiba J., Doornenbal P. C., Go S., Hashimoto T., Hayakawa S., Hinke C., Hinohara N., Ideguchi E., Isobe T., Ito Y., Jenkins D. G., Kawada Y., Kobayashi N., Kondo Y., Krucken R., Lorusso G., Nakano T., Nakatsukasa T., Kurata-Nishimura M., Ong H. J., Ota S., Podolyak Z., Sakurai H., Scheit H., Steiger K., Steffenbeck D., Sugimoto K., Tajiri K., Takano S., Takashima A., Teranishi T., Wakabayashi Y., Walker P. M., Wieland O., and Yamaguchi H.: “Development of axial asymmetry in the neutron-rich nucleus  $^{110}\text{Mo}$ ”, Physics Letter B **704**, 270–275 (2011). \*
- Iida K., Oyamatsu K., Sarhan B. A., and Kohama A.: “Proton-nucleus total reaction cross sections in the optical limit Glauber theory: subtle dependence on the equation of state of nuclear matter”, Prog. Theor. Phys. **126**, No. 6, pp. 1091–1100 (2011). \*
- Iida K., Koide S., Kohama A., and Oyamatsu K.: “Proton inelastic diffraction by a black nucleus and the size of excited nuclei”, Mod. Phys. Lett. A **27**, No. 3, pp. 1250020-1–1250020-9 (2012). \*
- Watanabe G. and Makela H.: “Dissipation-induced squeezing”, Phys. Rev. A **85**, 023604-1–023604-6 (2012). \*
- Hinohara N., Li Z., Nakatsukasa T., Niksic T., and Vretenar D.: “Effect of time-odd mean fields on inertial parameters of the quadrupole collective Hamiltonian”, Phys. Rev. C **85**, No. 2, pp. 024323-1–024323-14 (2012). \*
- (その他)
- Horiuchi W., Suzuki Y., and Baye D.: “Strength function in continuum with a square integrable basis”, Few Body Syst. **50**, 455–458 (2010).
- Horiuchi W., Suzuki Y., and Sato T.: “Electro-weak responses of  $^4\text{He}$  using realistic nuclear interactions”, Proceedings of Science **NC10**, No. 150, pp. 1–5 (2010).
- Kohama A., Iida K., and Oyamatsu K.: “Study of nuclear matter density distributions using hadronic probes”, AIP Conf. Proc. **1355**, 115–118 (2011).
- Hinohara N., Sato K., Yoshida K., Nakatsukasa T., and Matsuo M.: “Microscopic description of large-amplitude shape-mixing dynamics with local QRPA inertial functions”, AIP Conf. Proc. **1355**, 200–205 (2011).
- Horiuchi W., Suzuki Y., and Sato T.: “Electro-weak transitions of  $^4\text{He}$  using realistic nuclear interactions”, Int. J. Mod. Phys. E **20**, No. 4, pp. 781–784 (2011).
- Taniguchi Y., Kimura M., Enyo Y., and Horiuchi H.: “Clustering correlations and triaxiality in sd-shell region”, Int. J. Mod. Phys. E **20**, No. 4, pp. 1046–1049 (2011).
- Sato K. and Hinohara N.: “Microscopic analysis of shape mixing in low-lying states of proton-rich nuclei in the Se-Kr region”, J. Phys.: Conf. Ser. **312**, No. 9, pp. 092054-1–092054-6 (2011).
- Yoshida K., Hinohara N., and Nakatsukasa T.: “Skyrme energy-density functional approach to collective dynamics”, J. Phys.: Conf. Ser. **321**, No. 1, pp. 012017-1–012017-4 (2011).
- Horiuchi W., Feldmeier H., Neff T., and Suzuki Y.: “Universality of short-range correlations in light nuclei”, J. Phys.: Conf. Ser. **321**, No. 1, pp. 012043-1–012043-4 (2011).
- Sihver L., Lantz M. J., Takechi M., Kohama A., Ferrari A., Cerutti F., and Saito T.: “A comparison of total reaction cross section models used in particle and heavy ion transport codes”, Adv. Space Res. **49**, 812–819 (2012).
- [単行本・Proc.]
- (その他)
- Hinohara N., Sato K., Nakatsukasa T., and Matsuo M.: “Large-amplitude quadrupole collective dynamics in Se and Kr isotopes”, Workshop on Hadron and Nuclear Physics 09 (HNP09), Suita, 2009–11, World Scientific, Singapore, pp. 331–339 (2010).

## 口頭発表 Oral Presentations (国際会議等)

- Ebata S., Nakatsukasa T., Inakura T., Hashimoto Y., and Yabana K.: “Linear Response Calculation using Canonical-basis TDHFB with a schematic pairing functional”, ICHOR-EFES International Symposium on New Facet of Spin-Isospin Responses (SIR2010), (Department of Physics, School of Science, University of Tokyo), Hongo, Feb. (2010).
- Ebata S., Nakatsukasa T., Inakura T., Hashimoto Y., and Yabana K.: “Linear Response Calculation using Canonical-basis TDHFB with a schematic pairing functional”, The 10th International Symposium on Origin of Matter and Evolution of the Galaxies (OMEG10), (Research Center for Nuclear Physics, Osaka University), Ibaraki, Osaka, Mar. (2010).
- Sihver L., Lantz M. J., Takechi M., Kohama A., Ferrari A., Cerutti F., and Saito T.: “A comparison of total reaction cross section models used in particle and heavy ion transport codes”, 38th COSPAR scientific assembly (COSPAR 2010), (The Committee on Space Research), Bremen, Germany, July (2010).
- Kohama A.: “Interaction cross sections and the Glauber model”, Halo2010 Symposium, (The Center for Nuclear Study (CNS), the University of Tokyo), Hayama, Dec. (2010).
- Kohama A., Iida K., and Oyamatsu K.: “Black-sphere approximation to nuclei and its application to reactions with neutron-rich nuclei”, French Japanese Symposium on Nuclear Structure Problems, (French Japanese Nuclear Structure Problems International Associated Lab-

- oratory and the JSPS core-to-core project ), Wako, Jan. (2011).
- Nakatsukasa T.: “Recent theoretical investigations on properties of low-energy dipole states”, 1st Topical Workshop on Modern Aspects in Nuclear Structure: Advances in Nuclear Structure with arrays including new scintillator detectors, (University of Milano), Bormio, Italy, Feb. (2011).
- Nakatsukasa T.: “Finite amplitude method for RPA and QRPA calculations”, 5th LACM-EFES-JUSTIPEN Workshop, (Oak Ridge National Laboratory), Oak Ridge, USA, Mar. (2011).
- Hinohara N.: “Large-amplitude shape dynamics around the island of inversion”, 5th LACM-EFES-JUSTIPEN Workshop, (ORNL/UT, RIKEN, University of Tokyo, EFES), Oak Ridge, USA, Mar. (2011).
- Kohama A.: “Systematic studies of nuclear reactions using EXFOR - from a viewpoint of a database user -”, Workshop on Data Compilation of the Multinationally-maintained Experimental Nuclear Reaction Database (EXFOR), (IAEA), Vienna, Austria, Apr. (2011).
- Nakatsukasa T.: “Systematic calculation of photo-response with the Skyrme functional”, 3rd Workshop on Level Density and Gamma Strength, (Oslo University), Oslo, Norway, May (2011).
- Nguyen D. D.: “Thermal pairing and nuclear thermodynamics”, INT Special Seminar, (INT, University of Washington), Seattle, USA, May–May (2011).
- Nguyen D. D.: “Thermal pairing and nuclear viscosity”, Physics Colloquium of Department of Physics, College of Science, University of Idaho, (Department of Physics, University of Idaho), Moscow, USA, May–May (2011).
- Ebata S., Nakatsukasa T., and Inakura T.: “Canonical-basis TDHFB calculation for E1 mode of heavy nuclei ( $A \geq 100$ )”, ARIS 2011, (University of Leuven), Leuven, Belgium, May–June (2011).
- Nakatsukasa T.: “Microscopic theory of large-amplitude collective motion”, ARIS 2011, (University of Leuven), Leuven, Belgium, May–June (2011).
- Inakura T., Nakatsukasa T., and Yabana K.: “Systematic calculation of E1 mode with Skyrme-RPA”, ARIS 2011, (the universities of Leuven (K.U.Leuven) and Brussels (ULB)), Leuven, Belgium, May–June (2011).
- Nakatsukasa T.: “Finite amplitude method for nuclear response function”, Advances in Nuclear Many-Body Theory, (University of Zagreb), Primosten, Croatia, June (2011).
- Hinohara N.: “Microscopic description of shape coexistence and shape transition”, Advances in Nuclear Many-Body Theory, (University of Zagreb), Primosten, Croatia, June (2011).
- Horiuchi W., Suzuki Y., and Arai K.: “Description of Nuclear reactions with realistic interactions using a square integrable basis”, ETC Workshop on Continuum and correlations in light nuclei, (The European Center for Theoretical Studies in Nuclear Physics and Related Areas ), Trento, Italy, June (2011).
- Hinohara N.: “Large-amplitude deformation dynamics in low-lying states of magnesium isotopes around island of inversion”, RIBF ULIC and CNS Symposium on Frontier of Gamma-ray Spectroscopy (Gamma11), Wako, June–July (2011).
- Sato K., Hinohara N., Nakatsukasa T., Matsuo M., and Matuyanagi K.: “Microscopic analysis of development of deformation in neutron-rich Cr isotopes”, RIBF ULIC and CNS Symposium on Frontier of Gamma-ray Spectroscopy (Gamma11), Wako, June–July (2011).
- Inakura T., Nakatsukasa T., and Yabana K.: “Pygmy dipole resonance within fully self-consistent Skyrme-RPA”, RIBF ULIC and CNS Symposium on Frontier of Gamma-ray Spectroscopy (Gamma11), Wako, June–July (2011).
- Horiuchi W., Suzuki Y., and Koji A.: “Correlated basis approach to  $A > 4$  systems”, ECT Workshop on Not so few, but not too Many, (The European Center for Theoretical Studies in Nuclear Physics and Related Areas), Trento, Italy, July (2011).
- Horiuchi W., Feldmeier H., Neff T., and Suzuki Y.: “Universality of short-range nucleon-nucleon correlations in nuclei”, 5th Asia-Pacific Conference on Few-Body Problems in Physics 2011 (APFB2011), (Sungkyunkwan University), Seoul, Korea, Aug. (2011).
- Nakatsukasa T.: “Single-particle and collective motions in nuclei”, International Summer School on Subatomic Physics (ISSSP 2011), (Peking Universiyt), Beijing, China, Aug. (2011).
- Sato K., Hinohara N., Nakatsukasa T., Matsuo M., and Matuyanagi K.: “Microscopic approach to large-amplitude deformation dynamics with local QRPA inertial masses”, Rutherford Centennial Conference on Nuclear Physics 2011, (University of Manchester), Manchester, UK, Aug. (2011).
- Ebata S., Nakatsukasa T., and Inakura T.: “Study of pygmy dipole resonance with a new time-dependent mean field theory”, Rutherford Centennial Conference on Nuclear Physics 2011, (Institute of Physics Nuclear Physics Group), Manchester, UK, Aug. (2011).
- Nakatsukasa T.: “Time-dependent mean-field approaches to nuclear response and reaction”, INT workshop on Interfaces between structure and reactions for rare isotopes and nuclear astrophysics 2011, (INT), Seattle, USA, Aug.–Sept. (2011).
- Nguyen D. D.: “Viscosity of hot nuclei”, 19th International School on Nuclear Physics, Neutron Physics and Applications, (Institute for Nuclear Research and Nuclear Energy (Bulgarian Academy of Sciences) and Bulgarian Nuclear Regulatory Agency), Varna, Bulgaria, Sept. (2011).
- Hinohara N.: “On the microscopic theory of large-amplitude collective motion”, Restoring broken sym-

- metries within the nuclear Energy Density Functional method, (CEA/SPhN), Saclay, France, Sept. (2011).
- Hinohara N.: "Extraction of collective coordinates by means of adiabatic theory of large-amplitude collective motion", YIPQS Long-term workshop Dynamics and Correlations in Exotic Nuclei (DCEN2011), (YITP, Kyoto University), Kyoto, Sept.–Oct. (2011).
- Nakatsukasa T.: "Finite amplitude method for TDDFT", YIPQS Long-term workshop Dynamics and Correlations in Exotic Nuclei (DCEN2011), (YITP), Kyoto, Sept.–Oct. (2011).
- Sato K., Hinohara N., Nakatsukasa T., Matsuo M., and Matuyanagi K.: "Microscopic approach to large-amplitude deformation dynamics with local QRPA inertial functions", YIPQS Long-term workshop Dynamics and Correlations in Exotic Nuclei (DCEN2011), (Yukawa Institute for Theoretical Physics), Kyoto, Sept.–Oct. (2011).
- Horiuchi W., Feldmeier H., Neff T., and Suzuki Y.: "Short-range and tensor correlations in nuclei", YIPQS Long-term workshop Dynamics and Correlations in Exotic Nuclei (DCEN2011), (Yukawa Institute for Theoretical Physics), Kyoto, Sept.–Oct. (2011).
- Hinohara N.: "Microscopic analysis of shape coexistence/mixing and shape phase transition in neutron-rich nuclei around  $^{32}\text{Mg}$ ", Frontier Issues in Physics of Exotic Nuclei (YKIS2011), (YITP, Kyoto University), Kyoto, Oct. (2011).
- Sato K., Hinohara N., Nakatsukasa T., Matsuo M., and Matuyanagi K.: "Microscopic study of shape transition in neutron-rich Cr isotopes around  $N = 40$ ", Frontier Issues in Physics of Exotic Nuclei (YKIS2011), (Yukawa Institute for Theoretical Physics), Kyoto, Oct. (2011).
- Horiuchi W., Suzuki Y., and Arai K.: "Nuclear reactions with a realistic nuclear interaction using a square integrable basis", Frontier Issues in Physics of Exotic Nuclei (YKIS2011), (Yukawa Institute for Theoretical Physics), Kyoto, Oct. (2011).
- Inakura T., Nakatsukasa T., and Yabana K.: "Shell and neutron-skin effects on pygmy dipole resonances", Frontier Issues in Physics of Exotic Nuclei (YKIS2011), (Yukawa Institute for Theoretical Physics), Kyoto, Oct. (2011).
- Nakatsukasa T.: "Time-dependent density functional theory for nuclear dynamics", The Korean Physical Society Autumn Meeting 2011, (The Korean Physical Society), Busan, Korea, Oct. (2011).
- Nakatsukasa T.: "Real-time calculations of many-body dynamics in quantum systems", Conference on Computational Physics (CCP2011), (Oak Ridge National Laboratory), Gatlinburg, USA, Oct.–Nov. (2011).
- Nakatsukasa T.: "Recent developments in linear response calculations with the time-dependent density-functional theory", 11th International Symposium on Origin of Matter and Evolution of Galaxies (OMEG11), (University of Tokyo), Wako, Nov. (2011).
- Horiuchi W., Feldmeier H., Neff T., and Suzuki Y.: "Tensor correlations in light nuclei", International symposium on frontiers in nuclear physics: Tensor interaction in nuclear and hadron physics, (Beihang University), Beijing, China, Nov. (2011).
- Sato K., Hinohara N., Nakatsukasa T., Matsuo M., and Matuyanagi K.: "Microscopic approach to collective dynamics in neutron-rich nuclei around  $^{64}\text{Cr}$ ", ISPUN11, (Institute for Nuclear Science and Technique), Hanoi, Viet Nam, Nov. (2011).
- Inakura T., Nakatsukasa T., and Yabana K.: "shell and neutron-skin effects on pygmy dipole resonances", ISPUN11, (GANIL, HIC for FAIR, NAFOSTED), Hanoi, Vietnam, Nov. (2011).
- Nguyen D. D.: "Viscosity of hot nuclei", ISPUN11, (Institute for Nuclear Science and Technique), Hanoi, Vietnam, Nov. (2011).
- Nguyen D. D.: "Viscosity: From air to a hot nucleus", International Workshop on Theoretical Approaches to Correlations in Nuclei at the Limits of Stability 2011, (TanTao University), Long An, Vietnam, Nov. (2011).
- Nakatsukasa T.: "Low-energy E1 strength, skin thickness, and reaction cross section in neutron-rich nuclei", Physics Division Seminar (2011), (Oak Ridge National Laboratory), Oak Ridge, USA, Nov. (2011).
- Kohama A., Iida K., and Oyamatsu K.: "Total reaction cross section and nuclear symmetry energy", YITP-KoRIA Workshop on Nuclear Symmetry Energy, (Yukawa Institute for Theoretical Physics, Kyoto University), Kyoto, Nov. (2011).
- Nakatsukasa T.: "Density functional approaches to atomic nuclei", 35th Symposium on Nuclear Physics, (University of Mexico), Cocoyoc, Mexico, Jan. (2012).
- Horiuchi W., Navratil P., Quaglioni S., Suzuki Y., and Arai K.: "Ab initio description of reactions in light nuclei", 2nd Workshop on Perspectives of the Ab Initio No-Core Shell Model, (TRIUMF), Vancouver, Canada, Feb. (2012).
- (国内会議)
- 佐藤弘一, 日野原伸生, 中務孝, 松尾正之, 松柳研一: "中性子過剰 Cr 同位体における変形の発達", 日本物理学会 2010 年秋季大会, (日本物理学会), 北九州, 9 月 (2010).
- 江幡修一郎, 中務孝, 稲倉恒法, 橋本幸男, 矢花一浩: "CbT-DHFB による  $A=50$  近辺までの E1 モードの研究", 日本物理学会 2010 年秋季大会, (日本物理学会), 北九州, 9 月 (2010).
- 谷口億宇: "Ar 同位体の超変形状態の非軸対称性", 日本物理学会 2010 年秋季大会, (日本物理学会), 北九州, 9 月 (2010).
- 佐藤 弘一: "Microscopic description of shape coexistence/mixing phenomena as large-amplitude collective motions", Noyori summer school 2010, 播磨, 9 月 (2010).
- 中務孝: "核子多体系シミュレーション計算の現状と課題", 次

- 世代格子ゲージシミュレーション研究会, 和光, 9月 (2010).  
 佐藤弘一, 日野原伸生, 中務孝, 松尾正之, 松柳研一: “Constrained HFB + Local QRPA 法による大振幅集団運動の記述”, 基研研究会「大振幅集団運動の微視的理論」, (京都大学基礎物理学研究所), 京都, 10月 (2010).
- 江幡修一郎, 中務孝, 稲倉恒法, 吉田賢市, 橋本幸男, 矢花一浩: “Canonical-basis TDHFB を用いた線形応答計算”, 基研研究会「大振幅集団運動の微視的理論」, (京都大学基礎物理学研究所), 京都, 10月 (2010).
- 吉田賢市: “Pairing and deformation in nuclei around the island of inversion”, 仁科センター研究会「電磁気モーメント・核力反応による Island of Inversion の理解にむけて」, 和光, 12月 (2010).
- 日野原伸生: “Shape coexistence/mixing in Mg isotopes”, 仁科センター研究会「電磁気モーメント・核力反応による Island of Inversion の理解にむけて」, 和光, 12月 (2010).
- 佐藤弘一: “Microscopic description of shape mixing dynamics in atomic nuclei with local quasiparticle RPA inertial masses”, 次世代スーパー・コンピューティング・シンポジウム 2010 および第 1 回戦略プログラム 5 分野合同ワークショップ, 神戸, 1月 (2011).
- 佐藤弘一: “Microscopic approach to large-amplitude collective dynamics in shape coexistence/mixing phenomena”, GCOE シンポジウム「フロンティア開拓」, (京都大学), 京都, 2月 (2011).
- 稻倉恒法: “ピグミー共鳴状態と他の物理量との相関について”, 日本物理学会第 66 回年次大会, (日本物理学会), 新潟, 3月 (2011).
- 日野原伸生, 延與佳子: “ $^{26}\text{Mg}$  付近の  $sd$  シェル核における大振幅非軸対称変形ダイナミクス”, 日本物理学会第 66 回年次大会, (日本物理学会), 新潟, 3月 (2011).
- 佐藤弘一, 日野原伸生, 中務孝, 松尾正之, 松柳研一: “中性子過剰 Cr 同位体における変形ダイナミクスの微視的解析”, 日本物理学会第 66 回年次大会, (日本物理学会), 新潟, 3月 (2011).
- 小濱洋央, 飯田圭, 親松和浩: “核子 核子全断面積とくろたま模型”, 日本物理学会第 66 回年次大会, (日本物理学会), 新潟, 3月 (2011).
- 吉田賢市: “Roles of deformation and neutron excess on the giant monopole resonance in neutron-rich Zr isotopes”, 日本物理学会第 66 回年次大会, (日本物理学会), 新潟, 3月 (2011).
- 小濱洋央, 飯田圭, 親松和浩: “Importance of proton-proton total cross sections and proton-nucleus total reaction cross sections at 100-300 MeV”, RCNP 研究会「RCNP での核データ研究戦略検討会」, (大阪大学核物理研究センター), 大阪, 6月 (2011).
- 日野原伸生: “集団 Hamiltonian を用いた四重極大振幅集団運動の微視的記述”, 千葉大学原子核理論セミナー, (千葉大学), 千葉, 7月 (2011).
- 堀内涉, 稲倉恒法, 中務孝, 鈴木宜之: “グラウバー理論を用いた全反応断面積の系統解析”, 基研研究会「微視的核反応理論による物理」, (京都大学基礎物理学研究所), 京都, 8月 (2011).
- 小濱洋央, 飯田圭, 親松和浩: “核子 核子全断面積と核子原子核全反応断面積のエネルギー依存性”, 日本物理学会 2011 年秋季大会, (日本物理学会), 弘前, 9月 (2011).
- 日野原伸生, Vretenar D.: “ $\text{Xe}, \text{Ba}$  同位体における変形相転移の微視的記述”, 日本物理学会 2011 年秋季大会, (日本物理学会), 弘前, 9月 (2011).
- 堀内涉, 鈴木宜之, 新井好司: “現実的核力を用いたヘリウム 4 の光吸收断面積の解析”, 日本物理学会 2011 年秋季大会, (日本物理学会), 弘前, 9月 (2011).
- 谷口億宇: “酸素同位体の低エネルギー核融合断面積における余剰中性子の効果”, 日本物理学会 2011 年秋季大会, (日本物理学会), 弘前, 9月 (2011).
- 佐藤弘一, 日野原伸生, 中務孝, 松尾正之, 松柳研一: “ $N=40$  付近の中性子過剰 Cr 核における変形転移の研究”, 日本物理学会 2011 年秋季大会, (日本物理学会), 弘前, 9月 (2011).
- 堀内涉, Feldmeier H., Neff T., 鈴木宜之: “原子核における短距離相関の普遍性”, 日本物理学会 2011 年秋季大会, (日本物理学会), 弘前, 9月 (2011).
- 堀内涉, 鈴木宜之: “少数体手法にクラスター状態の記述”, RCNP 研究会「クラスターガス状態探索のための研究戦略会議」, (大阪大学核物理研究センター), 茨木, 大阪, 9月 (2011).
- 小濱洋央: “Estimating initial reaction rates using  $\sigma_R$ : Kurotama and other formulae”, 理化学研究所仁科加速器研究センター共用促進・産業連携部ミニワークショップ : PHITS 講習会, 和光, 11月 (2011).
- 小濱洋央: “RIBF データの系統的提供と課題”, RIBF 共用促進・産業連携部ミニワークショップ 「不安定核ビーム反応実験データ採録の課題と将来」, 和光, 12月 (2011).
- 堀内涉, 鈴木宜之, 新井好司, 佐藤透: “現実的核力を用いたヘリウム 4 の励起スペクトルと電弱応答”, 京都大学基礎物理学研究所研究会「E0, E1 励起を通じて探る原子核の低い励起エネルギーのエキゾチックな構造」, (京都大学基礎物理学研究所), 京都, 12月 (2011).
- 堀内涉: “軽い核におけるテンソル相関の重要性とその効果”, 日本物理学会第 67 回年次大会, (日本物理学会), 西宮, 3月 (2012).
- 堀内涉, 稲倉恒法, 中務孝, 鈴木宜之: “全反応断面積の系統解析から見る不安定核の構造変化”, 日本物理学会第 67 回年次大会, (日本物理学会), 西宮, 3月 (2012).