

業績

Achievement

1 学術論文

- Y. Kikuchi, T. Myo, K. Katō, K. Ikeda, “Coulomb breakup reactions of ^{11}Li in the coupled-channel $^9\text{Li}+n+n$ model”, Phys. Rev. C **87**, 034606 (2013).
- W. Horiuchi, Y. Suzuki, “Spin-dipole strength functions of ^4He with realistic nuclear forces”, Phys. Rev. C **87**, 034001 (2013).
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- T. Sumi, K. Minomo, S. Tagami, M. Kimura, T. Matsumoto, K. Ogata, Y. R. Shimizu, M. Yahiro, “Deformation of Ne isotopes in the region of the island of inversion”, Phys. Rev. C **85**, 064613 (2012).

- T. Furumoto, W. Horiuchi, M. Takashina, Y. Yamamoto, Y. Sakuragi, “Global optical potential for nucleus-nucleus systems from 50 MeV/u to 400 MeV/u”, *Phys. Rev. C* **85**, 044607 (2012); Erratum *Phys. Rev. C* **85**, 069901 (2012).
- W. Horiuchi, Y. Suzuki, K. Arai, “Ab initio study of the photoabsorption of ^4He ”, *Phys. Rev. C* **85**, 054002 (2012).
- H. Masui, K. Katō, K. Ikeda, “Expansion of the ^{16}O -core in neutron drip-line nuclei: ^{23}O and ^{24}O ”, *Nucl. Phys. A* **895**, 1 (2012).
- H. Nishitani, K. Sorai, A. Habe, K. Hosaki, Y. Watanabe, Y. Ohishi, K. Motogi, Y. Minamidani, M. Y. Fujimoto, “NH3 Survey Observation of Massive Star-Forming Region W 43”, *Publ. Astron. Soc. Jpn.* **64**, 30 (2012)

2 論文（国際会議プロシーディングス等）

- K. Minomo, S. Watanabe, T. Sumi, M. Kimura, K. Ogata, Y. R. Shimizu, M. Yahiro, “Deformation Effect on Total Reaction Cross Sections for Neutron-Rich Ne-Isotopes”, *Prog. Theor. Phys. Suppl.* **196**, 358 (2012).
- Masaaki Kimura, Naoya Furutachi, Yasutaka Taniguchi, Yoshiko Kanada-En'yo, Hisashi Horiuchi, “Clustering Aspects of Highly Excited States and Neutron-Rich Nuclei”, *Prog. Theor. Phys. Suppl.* **196**, 176 (2012).
- W. Horiuchi, Y. Suzuki, K. Arai, “Nuclear Reactions with a Realistic Nuclear Interaction Using a Square Integrable Basis”, *Prog. Theor. Phys. Suppl.* **196**, 125 (2012).
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- T. Suda, R. Hirschi, M. Y. Fujimoto, “Triple- α reaction rate constrained by stellar evolution models”, AIP Conference Proceedings **1484**, 263 (2012)
- S. Yamada, T. Suda, Y. Komiya, M. Y. Fujimoto, “Enrichment history of elements in the galactic stars based on the SAGA database”, AIP Conference Proceedings **1480**, 445 (2012)
- T. Suda, Y. Komiya, S. Yamada, Y. Katsuta, W. Aoki, P. Gil-Pons, C. L. Doherty, S. W. Campbell, P. R. Wood, M. Y. Fujimoto, “Transition of the initial mass function in the galaxy based on binary population synthesis”, AIP Conference Proceedings **1480**, 421 (2012)
- Y. Komiya, S. Yamada, T. Suda, M. Y. Fujimoto, “A hierarchical model for the galactic chemical evolution and r-process elements of extremely metal-poor stars”, AIP Conference Proceedings **1480**, 388 (2012)
- Y. Komiya, S. Yamada, T. Suda, M. Y. Fujimoto, “Hierarchical Chemical Evolution and R-process Elements of Extremely Metal-Poor Stars”, ASP Conference Proceedings **458**, 131 (2012)
- T. Suda, Y. Komiya, W. Aoki, S. Yamada, Y. Katsuta, M. Y. Fujimoto, “Star Formation History of Our Galaxy Explored with AGB Star Evolution Models”, ASP Conference Proceedings **458**, 65 (2012)

3 口頭発表（国際会議等）

- Technical Meeting on the International Network of Nuclear Reaction Data Centres, Apr. 16-19, 2012, Issy-les-Moulineaux, France
 - Masayuki AIKAWA, “Japan Nuclear Reaction Data Centre (JCPRG) progress report”
 - Masayuki AIKAWA, “Systems for compilation and user services in JCPRG”
 - Ayano MAKINAGA, “Developments of academic bases of nuclear data researches in Asia”
 - Masayuki AIKAWA, Rryusuke SUZUKI, “Development of digitizing software GSYS”
- The 3rd Asian Nuclear Reaction Database Development Workshop, Aug. 27-29, 2012, Pohang, Korea
 - Masayuki AIKAWA, “Nuclear Reaction Data Compilation and Evaluation: A Case of Hokkaido University Nuclear Reaction Data Centre (JCPRG)”
 - Ichinkhorloo Dagvadorj, “Evaluation of Nuclear Reactions in JCPRG: Analysis of ${}^6,7\text{Li}+n$ Reaction”

- Vidya Devi, “Description of Even-even Triaxial Nuclei in the Frame Work of Asymmetric Rotor Model and the Interacting Boon Approximation”
- Naoya FURUTACHI, “Current Status of Nuclear Reaction Data Compilation Activities at JCPRG”
- Kiyoshi KATŌ, “Developments of Asian Nuclear Data Collaborations”
- Ayano MAKINAGA, “Activities on the Neutron and Photon Experiments at Hokkaido University”
- Myagmarjav ODSUREN, “Analysis of Two Body Resonances in the Complex Scaled Orthogonal Condition Model”
- Kohsuke TSUBAKIHARA, “Compilation Tools of JCPRG”
- The 8th Tours Symposium on Nuclear Physics and Astrophysics, Sep. 2-7, 2012, Lenzkirch-Saig, Germany
 - Ayano MAKINAGA, “Development of the nuclear reaction data file for astrophysics (NRDF/A)”
- The 3rd International Ulaanbaatar Conference on Nuclear Physics and Applications, Sep. 17-20, 2012, Ulaanbaatar, Mongolia
 - M. Aikawa, “Nuclear Reaction Data Compilation and Evaluation: A Case of Hokkaido University Nuclear Reaction Data Centre (JCPRG)”
 - D. Ichinkhorloo, “ ${}^7\text{Li}+n$ Reactions in the Continuum-Discretized Coupled-Channels method”
 - A. Makinaga, “Activities on the Neutron and Photon Experiment at Hokkaido University Electron Linac Facility”
 - M. Odsuren, “A Resonance Problem Of The Alpha-Alpha System”
- The Third International Symposium on Frontiers in Nuclear Physics, Nov. 1-3, 2012, Beijing, China
 - Masayuki Aikawa, “Nuclear Reaction Data Compilation and Evaluation: A Case of Hokkaido University Nuclear Reaction Data Centre”
 - Kiyoshi Katō
 - Masaaki Kimura, “Collective motions and exotic deformations in neutron-rich nuclei”
- The 5th DAE-BRNS Theme Meeting on EXFOR Compilation of nuclear data, Feb. 18-22, 2013, Varanasi, India
 - Vidya Devi, “Introduction of GSYS2.4.3 Digitizer”
- International Conference on Nuclear Data for Science and Technology (ND2013), Mar. 4-8, 2013, New York, USA

- Myagmarjav ODSUREN, “Statistical Model Analysis of (n, α) and (n,p) Cross Sections Averaged Over the Fission Neutron Spectrum”
- Myagmarjav ODSUREN, “Analysis of Three Body Resonances in the Complex Scaled Orthogonal Condition Model”

4 口頭発表（学会等）

- 日本物理学会第 68 回年次大会, Mar. 26-29, 2013, Higashihiroshima, Japan
 - 椿原康介, “相対論的平均場模型における三体結合の中性子星物質に対する効果”
 - 堀内渉, “第一原理計算による ^4He の光吸収反応の研究”
- 日本原子力学会 2013 年春の年会, Mar. 26-28, 2013, Higashiosaka, Japan
 - Dagvadorj Ichinkhorloo, “ $^7\text{Li}+n$ Reactions in the Continuum Discretized Coupled Channels (CDCC) method”
- 核データ研究会, Nov. 15-16, 2012, Kumatori, Japan
 - Masayuki Aikawa, “Asian Collaboration on Nuclear Reaction Data Compilation”
 - Ayano Makinga, “Neutron Total Cross-section measurements on Sn And Ni using Pohang Neutron Facility”
- 日本物理学会 2012 年秋季大会, Sep. 11-14, 2012, Kyoto, Japan
 - 木村真明, “Island of Inversion 近傍での、非軸対称変形と変形共存”
 - 椿原康介, “三体結合を加えた相対論的平均場模型におけるハイペロン混合中性子星物質”
 - 堀内渉, “現実的核力を用いたヘリウム 4 の電弱応答の研究”

5 口頭発表（その他）

- 仁科センター共用促進・産業連携部ミニワークショップ「不安定核と核データ」, Aug. 3, 2012, Wako, Japan
 - 古立直也, “JCPRG での核データ評価”
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 - 合川正幸, “共同研究「RIBF 核反応データの高度利用研究」：北大での取り組み”
 - 古立直也, “JCPRG における核データ評価活動の現状と課題”
 - Dagvadorj Ichinkhorloo, “Analysis of $^6,^7\text{Li}+n$ reaction using CDCC method”
 - 大木平, “Webble World を用いた新たな核データベース利用システムに向けて”
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