

業績

Achievement

1 学術論文

- M. Odsuren, K. Katō, M. Aikawa, T. Myo, “Decomposition of scattering phase shifts and reaction cross sections using the complex scaling method”, Phys. Rev. C **89**, 034322 (2014).

2 論文（国際会議プロシーディングス等）

- S. Ebata, T. Nakatsukasa, “Pairing Effects in Nuclear Fusion Reaction”, JPS Conf. Proc. **1**, 013038 (2014).
- M. Odsuren, K. Katō, M. Aikawa, T. Myo, “Resonance and Continuum Contributions for the Scattering Phase Shift”, JPS Conf. Proc. **1**, 013061 (2014).
- K. Katō, “Electro-magnetic dissociation of neutron-rich nuclei - Nuclear data evaluations of ^9Be -”, INDC(KAS)-001, 12, (2014).
- A. Makinaga, M. Aikawa, K. Katō, A. Kohama, H. Otsu, H. Sakurai, “JCPRG-RIKEN Nuclear Data Project”, INDC(KAS)-001, 16, (2014).
- A. Makinaga, H. Akimune, H. Otsu, T. Kamiyama, K. Kino, Y. Kiyanagi, G.N. Kim, M-W. Lee, S-G. Shin, M. Aikawa, K. Kato, “Activity of the photon induced activation experiments with 45 MeV electron linear accelerator at Hokkaido University”, INDC(KAS)-001, 20, (2014).
- M. Odsuren, K. Katō, M. Aikawa, T. Myo, “SCATTERING PHASE SHIFTS OF TWO-BODY SYSTEMS USING THE COMPLEX SCALING METHOD”, INDC(KAS)-001, 24, (2014).
- M. Odsuren, G. Khuukhenkhuu, S. Davaa, J. Munkhsaikhan, Ts. Zolbadral, “Neutron-Nuclear Reaction Data Analysis at the Nuclear Research Center, National University of Mongolia”, INDC(KAS)-001, 28, (2014).
- S. Ebata, “Systematic Study of Electric Dipole Excited States using Linear Response Method”, INDC(KAS)-001, 40, (2014).
- M. Aikawa, S. Ebata, N. Furutachi, D. Ichinkhorloo, K. Katō, A. Makinaga, V. Devi, M. Odsuren, N. Otsuka, M. Takibayeva, K. Tsubakihara, “International and Asian Collaboration on Nuclear Data”, INDC(KAS)-001, 54, (2014).

- Masayuki Aikawa, Naoya Furutachi, Kiyoshi Katō, Ayano Makinaga, Vidya Devi, Dagvadorj Ichinkhorloo, Myagmarjav Odsuren, Kohsuke Tsubakihara, Toshiyuki Katayama, Naohiko Otuka, “Asian Collaboration on Nuclear Reaction Data Compilation”, Proceedings of the 2012 Symposium on Nuclear Data, JAEA-Conf 2013-002, 125 (2013).
- Ayano Makinaga, Hidetoshi Akimune, Manwoo Lee, Kyung-Sook Kim, Kwangsoo Kim, Muhammad Zaman, Guinyun Kim, Eunae Kim, Sung-Gyun Shin, Mooh-Hyun Cho, “Neutron Total Cross-section Measurement on Sn and Ni by using Pohang Neutron Facility”, Proceedings of the 2012 Symposium on Nuclear Data, JAEA-Conf 2013-002, 97 (2013).
- S. Ebata, T. Nakatsukasa, T. Inakura, “Time-dependent density-functional studies on strength functions in neutron-rich nuclei”, Proceedings of the 5th International Conference on “Fission and properties of neutron-rich nuclei” (ICFN5), Fission and Properties of Neutron-Rich Nuclei (World Scientific) pp.635-642 (2013).
- S. Ebata, T. Nakatsukasa, T. Inakura, “Systematic investigation of E1 strength for the isotopes from $Z = 28$ to 50 ”, Proceedings of International Symposium “Exotic Nuclear Structure From Nucleons” (ENSNF2012), Journal of Physics Conf. Ser. 445, 012021 (2013).
- S. Ebata, “Simulation of heavy ion collision using time-dependent density functional theory including nuclear superfluidity”, Proceedings of the Conference on Computational Physics 2012 (CCP2012), Journal of Physics Conf. Ser. 454, 012054 (2013).
- N. Takibayev, K. Kato, M. Takibayeva, A. Sarsembayeva, D. Nasirova, “Neutron Resonances in Few-Body Systems and the EOS of Neutron Star Crust”, Proceedings of the 20th International IUPAP Conference on Few-Body Problems in Physics, Few-Body Systems 54, 1587-1590 (Springer), (2013).

3 口頭発表（国際会議等）

- Technical Meeting on the International Network of Nuclear Reaction Data Centres, Apr. 23-25, 2013, Vienna, Austria
 - Masayuki AIKAWA, “Japan Nuclear Reaction Data Centre (JCPRG) progress report”
 - Masayuki AIKAWA, “Asian collaboration on nuclear reaction data compilation”
- The 5th International Conference on Contemporary Physics (ICCP-V), Jun. 3-6, 2013, Ulaanbaatar, Mongolia
 - D. Ichinkhorloo, “Microscopic calculations of cross sections for ${}^6,{}^7\text{Li} + n$ reactions”
 - D. Ichinkhorloo, “Compilation and Evaluation of Nuclear Reaction Data”
 - K. Kato, “Scattering problems in the complex scaling method”
- The 12th Asia Pacific Physics Conference, Jul. 14-19, 2013, Chiba, Japan
 - S. Ebata, “Pairing Effects in Nuclear Fusion Reaction”

- M. Odsuren, “Resonance and Continuum Contribution for the Scattering Phase Shift”
- Advances in time-dependent methods for quantum many-body system, Oct. 14-18, 2013, Trento, Italy
 - S. Ebata, T. Nakatsukasa, “Time-dependent mean-field theory including pairing correlations and applications to linear response calculation”
- The 4th Asian Nuclear Reaction Database Development Workshop, Oct. 23-25, 2013, Almaty, Kazakhstan
 - K. Katō, “Electro-magnetic dissociation of neutron-rich nuclei - Nuclear data evaluations of ^9Be -”
 - A. Makinaga, “JCPRG-RIKEN Nuclear Data Project”
 - A. Makinaga, “Activity of the photon induced activation experiments with 45 MeV electron linear accelerator at Hokkaido University”
 - M. Odsuren, “SCATTERING PHASE SHIFTS OF TWO-BODY SYSTEMS USING THE COMPLEX SCALING METHOD”
 - M. Odsuren, “Neutron-Nuclear Reaction Data Analysis at the Nuclear Research Center, National University of Mongolia”
 - S. Ebata, “Systematic Study of Electric Dipole Excited States using Linear Response Method”
 - M. Aikawa, “International and Asian Collaboration on Nuclear Data”

4 口頭発表（学会等）

- 2013 年度核データ研究会, Nov. 14-15, 2013, Tsuruga, Japan
 - Masayuki Aikawa, “Recent Activity of Central Asian Nuclear Reaction Data Base and Asian Collaboration on Nuclear Reaction Data Compilation”
 - Ayano Makinga, “Study of the γ -ray strength function in a $^{80}\text{Se}(\gamma, \gamma')$ experiment at ELBE”
 - Kiyoshi Katō, “Scattering Problems in Complex Scaling Method”
- 日本物理学会第 69 回年次大会, Mar. 27-30, 2014, Hiratsuka, Japan
 - 江幡 修一郎, “異種核衝突における対相関の効果について”

5 口頭発表（その他）

- 「核と人の会」研究会, May. 27, 2013, Sapporo, Japan
 - 合川正幸, “荷電粒子核反応データグループ NRDF と EXFOR”

- － 木村真明, “反対称化分子動力学で調べるバリオン多体系の構造”
 - － 堀内渉, “第一原理計算による4核子系の電弱励起とスペクトル”
- 対称エネルギーと原子核－原子核衝突シミュレーション, Jul. 2-4, 2013, Wako, Japan
 - － S. Ebata, “Properties of finite nuclear system and the systematics of E1 response”
- ミニワークショップ「不安定核と核データ」, Aug. 3, 2013, Wako, Japan
 - － 古立直也, “JCPRG での核データ評価”
 - － 牧永あや乃, “核変換に関わる核データ”
- The 1st JCPRG-RNC Joint Workshop on Nuclear Data, Aug. 3-9, 2013, Wako, Japan
 - － 合川正幸, “RIKEN-JCPRG 活動の全体報告”
 - － 合川正幸, “JCPRG における核データ評価活動の現状と課題”
 - － 江幡修一郎, “Webble を用いた核データベース利用システムの開発”
 - － 江幡修一郎, “重い核種のガンマ線強度関数の理論的研究”
 - － 牧永あや乃, “JCPRG における RIBF 実験データのデータベース化の現状報告”
 - － 牧永あや乃, “北大加速器施設における核データ測定の現状と計画”
 - － 加藤幾芳, “軽い核のクラスター研究と核データ”
- 日本原子力学会北海道支部第6回学術講演会, Feb. 3, 2014, Sapporo, Japan
 - － 合川正幸, “北大原子核反応データベース研究開発センターの活動について”
- 第26回北海道原子核理論グループ研究会, Feb. 20-22, 2014, Sapporo, Japan
 - － 合川正幸, “北大原子核反応データベース研究開発センターの活動について”
 - － 江幡修一郎, “時間依存平均場模型を用いたダイポールモードの研究”
 - － 牧永あや乃, “ γ 線強度分布関数の測定”
- 第1回「長寿命核分裂核廃棄物の核変換データとその戦略」ワークショップ, Mar. 6, 2014, Wako, Japan
 - － 合川正幸, “国際連携による原子核反応実験データベース”
- 2014 Annual Meeting of AESJ, March 26-28, 2014, Tokyo, Japan
 - － D. Ichinkhorloo, “Microscopic calculations of cross section for ${}^6,7\text{Li} + n$ Reactions”