

業績

Achievement

1 学術論文

- W. Horiuchi, S. Hatakeyama, S. Ebata, Y. Suzuki, “Extracting nuclear sizes of medium to heavy nuclei from total reaction cross sections”, To be published in Phys. Rev. C.
- Chang Xu, Zhongzhou Ren, G. Röpke, P. Schuck, Y. Funaki, H. Horiuchi, A. Tohsaki, T. Yamada, Bo Zhou, “ α -decay width of ^{212}Po from a quartetting wave function approach”, Phys. Rev. C **93**, 011306(R) (2016).
- Mengjiao Lyu, Zhongzhou Ren, Bo Zhou, Yasuro Funaki, Hisashi Horiuchi, Gerd Röpke, Peter Schuck, Akihiro Tohsaki, Chang Xu, Taiichi Yamada, “Investigation of ^{10}Be and its cluster dynamics from nonlocalized clustering concept”, Submitted to Phys. Rev. C. (arXiv:1512.07727 [nucl-th]).
- Bo Zhou, Zz. Ren, “Nonlocalized clustering in nuclear cluster physics”, Progress In Physics 35, 3 (2015).
- Bo Zhou, Zz. Ren, “Clustering in nuclei”, Physics 44, 5 (2015).
- M. Nyman, F. Belloni, D. Ichinkhorloo, E. Pirovano, A. J. M. Plompen, C. Rouki, “Measurement of the 477.6-keV γ -ray production cross section following inelastic neutron scattering by ^7Li , Phys. Rev. C **93**, 024610 (2016).
- D. Ichinkhorloo, M. Aikawa, S. Chiba, Y. Hirabayashi, K. Kato, “Low energy scattering cross sections for $n + ^{6,7}\text{Li}$ reactions using the continuum-discretized coupled-channels method”, Submitted to Phys. Rev. C.
- H. Wang, H. Otsu, H. Sakurai, D.S. Ahn, M. Aikawa, P. Doornenbal, N. Fukuda, T. Isobe, S. Kawakami, S. Koyama, T. Kubo, S. Kubono, G. Lorusso, Y. Maeda, A. Makinaga, S. Momiyama, K. Nakano, M. Niikura, Y. Shiga, P.-A. Söderström, H. Suzuki, H. Takeda, S. Takeuchi, R. Taniuchi, Ya. Watanabe, Yu. Watanabe, H. Yamasaki, K. Yoshida, “Spallation reaction study for fission products in nuclear waste: Cross section measurements for ^{137}Cs and ^{90}Sr on proton and deuteron”, Phys. Lett. B **754**, 104 (2016).
- M. Aikawa, S. Ebata, S. Imai, “Thick-target yields of radioactive targets deduced from inverse kinematics”, Nucl. Instr. Method B **353**, 1 (2015).
- M. Odsuren, Y. Kikuchi, T. Myo, M. Aikawa, K. Kato, “Virtual-state character of the ^9Be $1/2+$ state in the $^9\text{Be}(\gamma, n)^8\text{Be}$ reaction, Phys. Rev. C **92**, 014322 (2015).

2 論文（国際会議プロシーディングス等）

- Myagmarjav Odsuren, Yuma Kikuchi, Takayuki Myo, Masayuki Aikawa, Kiyoshi Kato, “Photodisintegration of ^9Be and the importance of the unbound $1/2+$ state”, Proceedings of the 13th International Symposium on Origin of Matter and Evolution of Galaxies, 05007 (2016).
- D. Ichinkhorloo, M. Aikawa, S. Chiba, Y. Hirabayashi, K. Kato, “The scattering cross sections for $^7\text{Li} + n$ reactions”, Proceedings of the Sixth AASPP Workshop on Asian Nuclear Reaction Database Development, 34 (2015).
- A. Sarsembayeva, S. Imai, S. Ebata, M. Chiba, K. Kat, N. Otuka, M. Aikawa, “Upgrade of Japanese editor for EXFOR compilation”, Proceedings of the Sixth AASPP Workshop on Asian Nuclear Reaction Database Development, 39 (2015).
- Masayuki Aikawa, “International Collaboration of Hokkaido University Nuclear Reaction Data Centre”, Proceedings of the Sixth AASPP Workshop on Asian Nuclear Reaction Database Development, 31 (2016).
- S. Imai, M. Aikawa, S. Ebata, “Monte Carlo simulation for thick-target yields deduced from inverse kinematics”, Proceedings of the Sixth AASPP Workshop on Asian Nuclear Reaction Database Development, 46 (2016).

3 口頭発表（国際会議等）

- Technical Meeting on the International Network of Nuclear Reaction Data Centres, Apr. 21-23, 2015, Vienna, Austria
 - Shuichiro Ebata, “Japan Nuclear Reaction Data Centre (JCPRG) progress report”
- The 6th Asian Nuclear Reaction Database Development Workshop, Sep. 15-17, 2015, Sapporo, Japan
 - S. Imai, “Monte Carlo simulation for thick-target yields deduced from inverse kinematics”
 - A. Sarsembayeva, “Upgrade of Japanese editor for EXFOR compilation”
 - Masayuki Aikawa, “International Collaboration of Hokkaido University Nuclear Reaction Data Centre”
 - D. Ichinkhorloo, “The scattering cross sections for $^7\text{Li} + n$ reactions”
- The 5th International Workshop on Compound-Nuclear Reactions and Related Topics, Oct. 19-23, 2015, Tokyo, Japan
 - Shuichiro Ebata, “Simulation for thick-target yields of transmutation reactions on radioactive targets, based on inverse kinematics”

4 口頭発表（学会等）

- 2015 年度核データ研究会, Nov. 19-20, 2015, Tokai, Japan
 - Masayuki Aikawa, “Interaction cross sections using thick-target transmission method”
 - Aiganym Sarsembayeva, “Current status in development of new EXFOR editor”
- 日本物理学会 2015 年秋季大会, Sep. 25-28, 2015, Osaka, Japan
 - 江幡 修一郎, “巨大単極子共鳴状態の系統的な計算による有限核の非圧縮率変数の評価”
- 日本物理学会第 71 回年次大会, Mar. 19-22, 2016, Sendai, Japan
 - 江幡 修一郎, “偶々核基底状態変形の三次元 HF+BCS による系統的計算”

5 口頭発表（その他）

- RCNP 研究会「アイソスカラー型単極遷移で探る原子核の励起状態とクラスター構造」, Jul. 16-17, 2015, Osaka, Japan
 - 江幡 修一郎, “Evaluation of the incompressibility in finite nuclear system by the systematic calculation for the giant monopole resonance”
- RCNP 研究会「全反応断面積および荷電変化断面積による陽子・中性子半径研究の現状と展望」, Jan. 12-13, 2016, Osaka, Japan
 - 江幡 修一郎, “厚標的トランスミッション法を用いた相互作用断面積の励起関数”