

PUBLICATION LIST

Kazuki Yoshida

CONTENTS

1	PREPRINT/NON-PEER REVIEWED ARTICLE	1
2	PEER-REVIEWED ARTICLES	1
3	CONFERENCE PROCEEDINGS	9
4	PH.D. THESIS	10
5	PRESENTATION	10
5.1	Seminar/Lecture	10
5.2	International conference	10
5.3	Domestic conference	13
6	CLASS/LECTURE	16
7	ORGANIZER	16
8	COMMITTEE	16
9	AWARD	16
10	FUND	17

1 PREPRINT/NON-PEER REVIEWED ARTICLE

- [1] Tomoatsu Edagawa, Kazuki Yoshida, Shoichiro Kawase, Kazuyuki Ogata and Masaki Sasano, “Chirality in (\bar{p} , $2p$) reactions induced by proton helicity”, [arXiv:2412.18118 \(2024\)](#)
- [2] Kazuki Yoshida and Junki Tanaka, “Reaction mechanism of quasi-free knockout processes in exotic RI beam era”, [Progress of Theoretical and Experimental Physics, arXiv:2412.16649 \[nucl-th\]](#)

2 PEER-REVIEWED ARTICLES

- [1] Riku Matsumura, Junki Tanaka, Kazuki Yoshida, Deuk Soon Ahn, Didier Beaumel, Jiawei Bian, Jiawei Cai, Yoshiaki Chazono, Fengyi Chen, Masanori Dozono, Fumitaka Endo, Serge Franchoo, Tatsuya Furuno, Fumiya Furukawa, Roman Gernhäuser, Kevin Insik Hahn, Jongwon Hwang, Koshi Higuchi, Yuto Hijikata, Yuya Honda, Byungsik Hong, Eiji Ideguchi, Gen Ikemizu, Azusa Inoue, Katsuhide Itsuno, Ryota Iwasaki, Ryo Kato, Takahiro Kawabata, Shoichiro Kawase, Keita Kawata, Mukul Khandelwal, Mingyu Kim, Sunji Kim, Nobuyuki Kobayashi, Yuki Kubota, CheongSoo Lee, Yutian Li, Qite Li, Yifan Lin, Yukie Maeda, Yohei Matsuda, Kenjiro Miki, Maoto Mitsui, Taichi Miyagawa, Nikhil Mozumdar, Motoki Murata, Tomoya Nakada, Hide Nakama, Geonhee Oh, Kazuyuki Ogata, Shoya Ogawa, Shingo Ogio, Shinsuke Ota, Stefanos Paschalis, Marina Petri, Thomas Pohl, Futa Saito, Soki Sakajo, Yohei Sasagawa, Takafumi Sato, Hiroaki Shibakita, Hideya Sonoda, Taiki Sugiyama, Yumaro Suzuki, Atsushi Tamii, Ryotaro Tsuji, Stefan Typel, Satoshi Umemoto,

- Xuan Wang, Cheng Wang, Guo Wenhao, Matthew Whitehead, Riku Yamamoto, Nobuhiro Yamasaki, Shunpei Yamazaki, Zaihong Yang, Takayuki Yano, Kohki Yasumura, Ryosuke Yoshida, Jichao Zhang, Kaijie Zhou, Juzo Zenihiro and Tomohiro Uesaka, “Establishing the $^{40}\text{Ca}(p, p\alpha)$ reaction at 392 MeV under quasi-free scattering conditions”, *Progress of Theoretical and Experimental Physics*, ptag038 (2026), [arXiv:2601.17393 \[nucl-ex\]](#)
- [2] Sang-In Shim, Yoshiki Chazono, Kazuki Yoshida, Tomohiro Uesaka and Kazuyuki Ogata, “Description of nucleon transfer reactions at intermediate energies within the impulse approach”, *Physical Review C* **113**, 014613 (2026), [arXiv:2503.01259 \[nucl-th\]](#)
- [3] G.H. Sargsyan, Kazuki Yoshida, Kazuyuki Ogata, K.D. Launey, J.E. Escher, D. Langr and T. Dytrych, “Ab initio informed $^{20}\text{Ne}(p, p\alpha)^{16}\text{O}$ reaction elucidates the emergence of alpha clustering from chiral potentials”, *Physics Letters B* **866**, 139563 (2025), [arXiv:2411.07502 \[nucl-th\]](#)
- [4] Shoya Ogawa, Kazuki Yoshida, Yoshiki Chazono and Kazuyuki Ogata, “Three-body analysis reveals a significant contribution of a minor ^5He s -wave component in the $^6\text{Li}(p, 2p)^5\text{He}$ cross section”, *Physical Review C* **111**, 034622 (2025), [arXiv:2404.17814 \[nucl-th\]](#)
- [5] M. Enciu, A. Obertelli, P. Doornenbal, M. Heinz, T. Miyagi, F. Nowacki, K. Ogata, A. Poves, A. Schwenk, K. Yoshida, N. L. Achouri, H. Baba, F. Browne, D. Calvet, F. Château, S. Chen, N. Chiga, A. Corsi, M. L. Cortés, A. Delbart, J.-M. Gheller, A. Giganon, A. Gillibert, C. Hilaire, T. Isobe, T. Kobayashi, Y. Kubota, V. Lapoux, H. N. Liu, T. Motobayashi, I. Murray, H. Otsu, V. Panin, N. Paul, W. Rodriguez, H. Sakurai, M. Sasano, D. Steppenbeck, L. Stuhl, Y. L. Sun, Y. Togano, T. Uesaka, K. Wimmer, K. Yoneda, O. Aktas, T. Aumann, L. X. Chung, F. Flavigny, S. Franchoo, I. Gašparić, R.-B. Gerst, J. Gibelin, K. I. Hahn, D. Kim, Y. Kondo, P. Koseoglou, J. Lee, C. Lehr, P. J. Li, B. D. Linh, T. Lokotko, M. MacCormick, K. Moschner, T. Nakamura, S. Y. Park, D. Rossi, E. Sahin, P.-A. Söderström, D. Sohler, S. Takeuchi, H. Toernqvist, V. Vaquero, V. Wagner, S. Wang, V. Werner, X. Xu, H. Yamada, D. Yan, Z. Yang, M. Yasuda and L. Zanetti, “Spectroscopy of ^{52}K ”, *Physical Review C* **110**, 064301 (2024), [arXiv:2412.03602 \[nucl-ex\]](#)
- [6] Kazuki Yoshida, Yoshiki Chazono and Kazuyuki Ogata, “Significance of the refraction effect on the p - d elementary process in the (p, pd) reaction”, *Physical Review C* **110**, 014617 (2024), [arXiv:2404.04115 \[nucl-th\]](#)
- [7] Hibiki Nakada, Shinsuke Nakayama, Kazuki Yoshida, Yukinobu Watanabe and Kazuyuki Ogata, “Difference in peripherality of the inclusive $(p, p'x)$ and $(d, d'x)$ reactions and its implications for a phenomenological reaction model”, *Physical Review C* **110**, 014616 (2024), [arXiv:2312.02502 \[nucl-th\]](#)
- [8] P. J. Li, J. Lee, P. Doornenbal, S. Chen, S. Wang, A. Obertelli, Y. Chazono, J.D. Holt, B.S. Hu, K. Ogata, Y. Utsuno, K. Yoshida, N.L. Achouri, H. Baba, F. Browne, D. Calvet, F. Château, N. Chiga, A. Corsi, M.L. Cortés, A. Delbart, J.-M. Gheller, A. Giganon, A. Gillibert, C. Hilaire, T. Isobe, T. Kobayashi, Y. Kubota, V. Lapoux, H.N. Liu, T. Motobayashi, I. Murray, H. Otsu, V. Panin, N. Paul, W. Rodriguez, H. Sakurai, M. Sasano, D. Steppenbeck, L. Stuhl, Y.L. Sun, Y. Togano, T. Uesaka, K. Wimmer, K. Yoneda, O. Aktas, T. Aumann, K. Boretzky, C. Caesar, L.X. Chung, F. Flavigny, S. Franchoo, I. Gasparic, R.-B. Gerst, J. Gibelin, K.I. Hahn, J. Kahlbow, D. Kim, T. Koiwai, Y. Kondo, D. Körper, P. Koseoglou, C. Lehr, B.D. Linh, T. Lokotko, M. MacCormick, K. Miki, K. Moschner, T. Nakamura, S.Y. Park, D. Rossi, E. Sahin, F. Schindler, H. Simon, P.-A. Söderström, D. Sohler, S. Takeuchi, H. Toernqvist, J. Tscheuschner, V. Vaquero, V. Wagner,

- V. Werner, X. Xu, H. Yamada, D. Yan, Z. Yang, M. Yasuda and L. Zanetti, “Spectroscopy of deeply bound orbitals in neutron-rich Ca isotopes”, *Physics Letters B* **855**, 138828 (2024), [arXiv:2407.04529 \[nucl-ex\]](#)
- [9] Kazuyuki Ogata, Kazuki Yoshida and Yoshiki Chazono, “PIKOE: a computer program for distorted-wave impulse approximation calculation for proton induced nucleon knockout reactions”, *Computer Physics Communications* **297**, 109058 (2024)
- [10] P. J. Li, D. Beaumel, J. Lee, M. Assié, S. Chen, S. Franchoo, J. Gibelin, F. Hammache, T. Harada, Y. Kanada-En’yo, Y. Kubota, S. Leblond, P. F. Liang, T. Lokotko, M. Lyu, F. M. Marqués, Y. Matsuda, K. Ogata, H. Otsu, E. Rindell, L. Stuhl, D. Suzuki, Y. Togano, T. Tomai, X. X. Xu, K. Yoshida, J. Zenihiro, N. L. Achouri, T. Aumann, H. Baba, G. Cardella, S. Ceruti, A. I. Stefanescu, A. Corsi, A. Frotscher, J. Gao, A. Gillibert, K. Inaba, T. Isobe, T. Kawabata, N. Kitamura, T. Kobayashi, Y. Kondo, A. Kurihara, H. N. Liu, H. Miki, T. Nakamura, A. Obertelli, N. A. Orr, V. Panin, M. Sasano, T. Shimada, Y. L. Sun, J. Tanaka, L. Trache, D. Tudor, T. Uesaka, H. Wang, H. Yamada, Z. H. Yang and M. Yasuda, “Validation of the ^{10}Be Ground-State Molecular Structure Using $^{10}\text{Be}(p, p\alpha)^6\text{He}$ Triple Differential Reaction Cross-Section Measurements”, *Physical Review Letters* **131**, 212501 (2023), [arXiv:2311.13129 \[nucl-ex\]](#)
- [11] Sang-In Shim, Kazuki Yoshida and Kazuyuki Ogata, “Systematic Analysis of the Nuclear Absorption Effect on the Cross Section of the Knockout Reaction”, *Journal of the Physical Society of Japan* **92**, 094201 (2023), [arXiv:2303.13841 \[nucl-th\]](#)
- [12] Hibiki Nakada, Kazuki Yoshida and Kazuyuki Ogata, “Description of the inclusive ($d, d'x$) reaction with the semiclassical distorted-wave model”, *Physical Review C* **108**, 034603 (2023), [arXiv:2303.02985 \[nucl-th\]](#)
- [13] H. Wang, M. Yasuda, Y. Kondo, T. Nakamura, J. A. Tostevin, K. Ogata, T. Otsuka, A. Poves, N. Shimizu, K. Yoshida, N. L. Achouri, H. Al Falou, L. Atar, T. Aumann, H. Baba, K. Boretzky, C. Caesar, D. Calvet, H. Chae, N. Chiga, A. Corsi, H. L. Crawford, F. Delaunay, A. Delbart, Q. Deshayes, Zs. Dombrádi, C. Douma, Z. Elekes, P. Fallon, I. Gašparić, J.-M. Gheller, J. Gibelin, A. Gillibert, M. N. Harakeh, A. Hirayama, C. R. Hoffman, M. Holl, A. Horvat, Á. Horváth, J. W. Hwang, T. Isobe, J. Kahlbow, N. Kalantar-Nayestanaki, S. Kawase, S. Kim, K. Kisamori, T. Kobayashi, D. Körper, S. Koyama, I. Kuti, V. Lapoux, S. Lindberg, F. M. Marqués, S. Masuoka, J. Mayer, K. Miki, T. Murakami, M. A. Najafi, K. Nakano, N. Nakatsuka, T. Nilsson, A. Obertelli, N. A. Orr, H. Otsu, T. Ozaki, V. Panin, S. Paschalis, A. Revel, D. Rossi, A. T. Saito, T. Saito, M. Sasano, H. Sato, Y. Satou, H. Scheit, F. Schindler, P. Schrock, M. Shikata, Y. Shimizu, H. Simon, D. Sohlér, O. Sorlin, L. Stuhl, S. Takeuchi, M. Tanaka, M. Thoennessen, H. Törnqvist, Y. Togano, T. Tomai, J. Tscheuschner, J. Tsubota, T. Uesaka, Z. Yang and K. Yoneda, “Intruder configurations in ^{29}Ne at the transition into the island of inversion: Detailed structure study of ^{28}Ne ”, *Physics Letters B* **843**, 138038 (2023)
- [14] S. Chen, F. Browne, P. Doornenbal, J. Lee, A. Obertelli, Y. Tsunoda, T. Otsuka, Y. Chazono, G. Hagen, J. D. Holt, G. R. Jansen, K. Ogata, N. Shimizu, Y. Utsuno, K. Yoshida, N. L. Achouri, H. Baba, D. Calvet, F. Château, N. Chiga, A. Corsi, M. L. Cortés, A. Delbart, J.-M. Gheller, A. Giganon, A. Gillibert, C. Hilaire, T. Isobe, T. Kobayashi, Y. Kubota, V. Lapoux, H. N. Liu, T. Motobayashi, I. Murray, H. Otsu, V. Panin, N. Paul, W. Rodríguez, H. Sakurai, M. Sasano, D. Steppenbeck, L. Stuhl, Y. L. Sun, Y. Togano, T. Uesaka, K. Wimmer, K. Yoneda, O. Aktas, T. Aumann, L. X. Chung, F. Flavigny, S. Franchoo, I. Gasparic, R.-B. Gerst, J. Gibelin, K. I. Hahn, D. Kim, T. Koiwai, Y. Kondo, P. Koseoglou,

- C. Lehr, B. D. Linh, T. Lokotko, M. MacCormick, K. Moschner, T. Nakamura, S. Y. Park, D. Rossi, E. Sahin, P.-A. Söderström, D. Sohler, S. Takeuchi, H. Törnqvist, V. Vaquero, V. Wagner, S. Wang, V. Werner, X. Xu, H. Yamada, D. Yan, Z. Yang, M. Yasuda and L. Zanetti, “Level structures of $^{56,58}\text{Ca}$ cast doubt on a doubly magic ^{60}Ca ”, *Physics Letters B* **843**, 138025 (2023), [arXiv:2307.07077 \[nucl-ex\]](#)
- [15] Tomoatsu Edagawa, Kazuki Yoshida, Yoshiki Chazono and Kazuyuki Ogata, “Effective polarization in proton-induced α knockout reactions”, *Physical Review C* **107**, 054603 (2023), [arXiv:2202.00225 \[nucl-th\]](#)
- [16] T. Pohl, Y. L. Sun, A. Obertelli, J. Lee, M. Gómez-Ramos, K. Ogata, K. Yoshida, B. S. Cai, C. X. Yuan, B. A. Brown, H. Baba, D. Beaumel, A. Corsi, J. Gao, J. Gibelin, A. Gillibert, K. I. Hahn, T. Isobe, D. Kim, Y. Kondo, T. Kobayashi, Y. Kubota, P. Li, P. Liang, H. N. Liu, J. Liu, T. Lokotko, F. M. Marqués, Y. Matsuda, T. Motobayashi, T. Nakamura, N. A. Orr, H. Otsu, V. Panin, S. Y. Park, S. Sakaguchi, M. Sasano, H. Sato, H. Sakurai, Y. Shimizu, A. I. Stefanescu, L. Stuhl, D. Suzuki, Y. Togano, D. Tudor, T. Uesaka, H. Wang, X. Xu, Z. H. Yang, K. Yoneda and J. Zenihiro, “Multiple Mechanisms in Proton-Induced Neutron Removal at ~ 100 MeV/Nucleon”, *Physical Review Letters* **130**, 172501 (2023)
- [17] Yoshiki Chazono, Kazuki Yoshida and Kazuyuki Ogata, “Importance of deuteron breakup in the deuteron knockout reaction”, *Physical Review C* **106**, 064613 (2022), [arXiv:2206.09786 \[nucl-th\]](#)
- [18] M. Enciu, H. N. Liu, A. Obertelli, P. Doornenbal, F. Nowacki, K. Ogata, A. Poves, K. Yoshida, N. L. Achouri, H. Baba, F. Browne, D. Calvet, F. Châteaueau, S. Chen, N. Chiga, A. Corsi, M. L. Cortés, A. Delbart, J.-M. Gheller, A. Giganon, A. Gillibert, C. Hilaire, T. Isobe, T. Kobayashi, Y. Kubota, V. Lapoux, T. Motobayashi, I. Murray, H. Otsu, V. Panin, N. Paul, W. Rodriguez, H. Sakurai, M. Sasano, D. Steppenbeck, L. Stuhl, Y. L. Sun, Y. Togano, T. Uesaka, K. Wimmer, K. Yoneda, O. Aktas, T. Aumann, L. X. Chung, F. Flavigny, S. Franchoo, I. Gasparic, R.-B. Gerst, J. Gibelin, K. I. Hahn, D. Kim, Y. Kondo, P. Koseoglou, J. Lee, C. Lehr, P. J. Li, B. D. Linh, T. Lokotko, M. MacCormick, K. Moschner, T. Nakamura, S. Y. Park, D. Rossi, E. Sahin, P.-A. Söderström, D. Sohler, S. Takeuchi, H. Törnqvist, V. Vaquero, V. Wagner, S. Wang, V. Werner, X. Xu, H. Yamada, D. Yan, Z. Yang, M. Yasuda and L. Zanetti, “Extended $p_{3/2}$ Neutron Orbital and the $N = 32$ Shell Closure in ^{52}Ca ”, *Physical Review Letters* **129**, 262501 (2022)
- [19] Z. Elekes, M. M. Juhász, D. Sohler, K. Sieja, K. Yoshida, K. Ogata, P. Doornenbal, A. Obertelli, N. L. Achouri, H. Baba, F. Browne, D. Calvet, F. Châteaueau, S. Chen, N. Chiga, A. Corsi, M. L. Cortés, A. Delbart, J.-M. Gheller, A. Giganon, A. Gillibert, C. Hilaire, T. Isobe, T. Kobayashi, Y. Kubota, V. Lapoux, H. N. Liu, T. Motobayashi, I. Murray, H. Otsu, V. Panin, N. Paul, W. Rodriguez, H. Sakurai, M. Sasano, D. Steppenbeck, L. Stuhl, Y. L. Sun, Y. Togano, T. Uesaka, K. Wimmer, K. Yoneda, O. Aktas, T. Aumann, L. X. Chung, Zs. Dombrádi, F. Flavigny, S. Franchoo, I. Gašparić, R.-B. Gerst, J. Gibelin, K. I. Hahn, D. Kim, T. Koiwai, Y. Kondo, P. Koseoglou, J. Lee, C. Lehr, B. D. Linh, T. Lokotko, M. MacCormick, K. Moschner, T. Nakamura, S. Y. Park, D. Rossi, E. Sahin, P.-A. Söderström, S. Takeuchi, H. Törnqvist, V. Vaquero, V. Wagner, S. Wang, V. Werner, X. Xu, H. Yamada, D. Yan, Z. Yang, M. Yasuda and L. Zanetti, ““Southwestern” boundary of the $N = 40$ island of inversion: First study of low-lying bound excited states in ^{59}V and ^{61}V ”, *Physical Review C* **106**, 064321 (2022)
- [20] Kazuki Yoshida and Junki Tanaka, “ α knockout reaction as a new probe for α formation in α -decay nuclei”, *Physical Review C* **106**, 014621 (2022), [arXiv:2111.07541 \[nucl-th\]](#)

- [21] T. Koiwai, K. Wimmer, P. Doornenbal, A. Obertelli, C. Barbieri, T. Duguet, J.D. Holt, T. Miyagi, P. Navrátil, K. Ogata, N. Shimizu, V. Somà, Y. Utsuno, K. Yoshida, N.L. Achouri, H. Baba, F. Browne, D. Calvet, F. Château, S. Chen, N. Chiga, A. Corsi, M.L. Cortés, A. Delbart, J.-M. Gheller, A. Giganon, A. Gillibert, C. Hilaire, T. Isobe, T. Kobayashi, Y. Kubota, V. Lapoux, H.N. Liu, T. Motobayashi, I. Murray, H. Otsu, V. Panin, N. Paul, W. Rodriguez, H. Sakurai, M. Sasano, D. Steppenbeck, L. Stuhl, Y.L. Sun, Y. Togano, T. Uesaka, K. Yoneda, O. Aktas, T. Aumann, L.X. Chung, F. Flavigny, S. Franchoo, I. Gasparic, R.-B. Gerst, J. Gibelin, K.I. Hahn, D. Kim, Y. Kondo, P. Koseoglou, J. Lee, C. Lehr, B.D. Linh, T. Lokotko, M. MacCormick, K. Moschner, T. Nakamura, S.Y. Park, D. Rossi, E. Sahin, P.-A. Söderström, D. Sohler, S. Takeuchi, H. Toernqvist, V. Vaquero, V. Wagner, S. Wang, V. Werner, X. Xu, H. Yamada, D. Yan, Z. Yang, M. Yasuda and L. Zanetti, “A first glimpse at the shell structure beyond ^{54}Ca : Spectroscopy of ^{55}K , ^{55}Ca , and ^{57}Ca ”, *Physics Letters B* **827**, 136953 (2022), [arXiv:2202.03050 \[nucl-ex\]](#)
- [22] K. Yoshida, M. C. Atkinson, K. Ogata and W. H. Dickhoff, “First application of the dispersive optical model to $(p,2p)$ reaction analysis within the distorted-wave impulse approximation framework”, *Physical Review C* **105**, 014622 (2022), [arXiv:2109.02211 \[nucl-th\]](#)
- [23] F. Browne, S. Chen, P. Doornenbal, A. Obertelli, K. Ogata, Y. Utsuno, K. Yoshida, N. L. Achouri, H. Baba, D. Calvet, F. Château, N. Chiga, A. Corsi, M. L. Cortés, A. Delbart, J.-M. Gheller, A. Giganon, A. Gillibert, C. Hilaire, T. Isobe, T. Kobayashi, Y. Kubota, V. Lapoux, H. N. Liu, T. Motobayashi, I. Murray, H. Otsu, V. Panin, N. Paul, W. Rodriguez, H. Sakurai, M. Sasano, D. Steppenbeck, L. Stuhl, Y. L. Sun, Y. Togano, T. Uesaka, K. Wimmer, K. Yoneda, O. Aktas, T. Aumann, K. Boretzky, C. Caesar, L. X. Chung, F. Flavigny, S. Franchoo, I. Gasparic, R.-B. Gerst, J. Gibelin, K. I. Hahn, M. Holl, J. Kahlbow, D. Kim, D. Körper, T. Koiwai, Y. Kondo, P. Koseoglou, J. Lee, C. Lehr, B. D. Linh, T. Lokotko, M. MacCormick, K. Miki, K. Moschner, T. Nakamura, S. Y. Park, D. Rossi, E. Sahin, F. Schindler, H. Simon, P.-A. Söderström, D. Sohler, S. Takeuchi, H. Törnqvist, J. Tscheuschner, V. Vaquero, V. Wagner, S. Wang, V. Werner, X. Xu, H. Yamada, D. Yan, Z. Yang, M. Yasuda and L. Zanetti, “Pairing Forces Govern Population of Doubly Magic ^{54}Ca from Direct Reactions”, *Physical Review Letters* **126**, 252501 (2021)
- [24] M. M. Juhász, Z. Elekes, D. Sohler, K. Sieja, K. Yoshida, K. Ogata, P. Doornenbal, A. Obertelli, H. Baba, F. Browne, D. Calvet, F. Château, S. Chen, N. Chiga, A. Corsi, M. L. Cortés, A. Delbart, J.-M. Gheller, A. Giganon, A. Gillibert, C. Hilaire, T. Isobe, T. Kobayashi, Y. Kubota, V. Lapoux, T. Motobayashi, I. Murray, H. Otsu, V. Panin, N. Paul, W. Rodriguez, H. Sakurai, M. Sasano, D. Steppenbeck, L. Stuhl, Y. L. Sun, Y. Togano, T. Uesaka, K. Wimmer, K. Yoneda, N. L. Achouri, O. Aktas, T. Aumann, L. X. Chung, Zs. Dombrádi, F. Flavigny, S. Franchoo, I. Gašparić, R.-B. Gerst, J. Gibelin, K. I. Hahn, D. Kim, T. Koiwai, Y. Kondo, P. Koseoglou, J. Lee, C. Lehr, B. D. Linh, H. N. Liu, T. Lokotko, M. MacCormick, K. Moschner, T. Nakamura, S. Y. Park, D. Rossi, E. Sahin, P.-A. Söderström, S. Takeuchi, H. Törnqvist, V. Vaquero, V. Wagner, S. Wang, V. Werner, X. Xu, H. Yamada, D. Yan, Z. Yang, M. Yasuda and L. Zanetti, “First spectroscopic study of ^{63}V at the $N = 40$ island of inversion”, *Physical Review C* **103**, 064308 (2021)
- [25] Yasutaka Taniguchi, Kazuki Yoshida, Yohei Chiba, Yoshiko Kanada-En’yo, Masaaki Kimura and Kazuyuki Ogata, “Unexpectedly enhanced α -particle preformation in ^{48}Ti probed by the $(p, p\alpha)$ reaction”, *Physical Review C* **103**, L031305 (2021), [arXiv:2101.04820 \[nucl-th\]](#)
- [26] M. M. Juhász, Z. Elekes, D. Sohler, Y. Utsuno, K. Yoshida, T. Otsuka, K. Ogata, P. Doornenbal, A. Obertelli, H. Baba, F. Browne, D. Calvet, F. Château, S. Chen, N. Chiga,

- A. Corsi, M.L. Cortés, A. Delbart, J.-M. Gheller, A. Giganon, A. Gillibert, C. Hilaire, T. Isobe, T. Kobayashi, Y. Kubota, V. Lapoux, T. Motobayashi, I. Murray, H. Otsu, V. Panin, N. Paul, W. Rodriguez, H. Sakurai, M. Sasano, D. Steppenbeck, L. Stuhl, Y.L. Sun, Y. Togano, T. Uesaka, K. Wimmer, K. Yoneda, N.L. Achouri, O. Aktas, T. Aumann, L.X. Chung, Zs. Dombrádi, F. Flavigny, S. Franchoo, I. Gašparić, R.-B. Gerst, J. Gibelin, K.I. Hahn, D. Kim, T. Koiwai, Y. Kondo, P. Koseoglou, J. Lee, C. Lehr, B.D. Linh, H.N. Liu, T. Lokotko, M. MacCormick, K. Moschner, T. Nakamura, S.Y. Park, D. Rossi, E. Sahin, P.-A. Söderström, S. Takeuchi, H. Törnqvist, V. Vaquero, V. Wagner, S. Wang, V. Werner, X. Xu, H. Yamada, D. Yan, Z. Yang, M. Yasuda and L. Zanetti, “First spectroscopic study of ^{51}Ar by the $(p,2p)$ reaction”, *Physics Letters B* **814**, 136108 (2021)
- [27] Z. H. Yang, Y. Kubota, A. Corsi, K. Yoshida, X.-X. Sun, J. G. Li, M. Kimura, N. Michel, K. Ogata, C. X. Yuan, Q. Yuan, G. Authelet, H. Baba, C. Caesar, D. Calvet, A. Delbart, M. Dozono, J. Feng, F. Flavigny, J.-M. Gheller, J. Gibelin, A. Giganon, A. Gillibert, K. Hasegawa, T. Isobe, Y. Kanaya, S. Kawakami, D. Kim, Y. Kiyokawa, M. Kobayashi, N. Kobayashi, T. Kobayashi, Y. Kondo, Z. Korkulu, S. Koyama, V. Lapoux, Y. Maeda, F. M. Marqués, T. Motobayashi, T. Miyazaki, T. Nakamura, N. Nakatsuka, Y. Nishio, A. Obertelli, A. Ohkura, N. A. Orr, S. Ota, H. Otsu, T. Ozaki, V. Panin, S. Paschalis, E. C. Pollacco, S. Reichert, J.-Y. Roussé, A. T. Saito, S. Sakaguchi, M. Sako, C. Santamaria, M. Sasano, H. Sato, M. Shikata, Y. Shimizu, Y. Shindo, L. Stuhl, T. Sumikama, Y. L. Sun, M. Tabata, Y. Togano, J. Tsubota, F. R. Xu, J. Yasuda, K. Yoneda, J. Zenihiro, S.-G. Zhou, W. Zuo and T. Uesaka, “Quasifree Neutron Knockout Reaction Reveals a Small s -Orbital Component in the Borromean Nucleus ^{17}B ”, *Physical Review Letters* **126**, 082501 (2021)
- [28] Yoshiki Chazono, Kenichi Yoshida, Kazuki Yoshida and Kazuyuki Ogata, “Proton-induced deuteron knockout reaction as a probe of an isoscalar proton-neutron pair in nuclei”, *Physical Review C* **103**, 024609 (2021), [arXiv:2007.06771 \[nucl-th\]](https://arxiv.org/abs/2007.06771)
- [29] Junki Tanaka, Zaihong Yang, Stefan Typel, Satoshi Adachi, Shiwei Bai, Patrik van Beek, Didier Beaumel, Yuki Fujikawa, Jiaying Han, Sebastian Heil, Siwei Huang, Azusa Inoue, Ying Jiang, Marco Knösel, Nobuyuki Kobayashi, Yuki Kubota, Wei Liu, Jianling Lou, Yukie Maeda, Yohei Matsuda, Kenjiro Miki, Shoken Nakamura, Kazuyuki Ogata, Valerii Panin, Heiko Scheit, Fabia Schindler, Philipp Schrock, Dmytro Symochko, Atsushi Tamii, Tomohiro Uesaka, Vadim Wagner, Kazuki Yoshida, Juzo Zenihiro and Thomas Aumann, “Formation of α clusters in dilute neutron-rich matter”, *Science* **371**, 260–264 (2021)
- [30] M. L. Cortés, W. Rodriguez, P. Doornenbal, A. Obertelli, J. D. Holt, J. Menéndez, K. Ogata, A. Schwenk, N. Shimizu, J. Simonis, Y. Utsuno, K. Yoshida, L. Achouri, H. Baba, F. Browne, D. Calvet, F. Château, S. Chen, N. Chiga, A. Corsi, A. Delbart, J.-M. Gheller, A. Giganon, A. Gillibert, C. Hilaire, T. Isobe, T. Kobayashi, Y. Kubota, V. Lapoux, H. N. Liu, T. Motobayashi, I. Murray, H. Otsu, V. Panin, N. Paul, H. Sakurai, M. Sasano, D. Steppenbeck, L. Stuhl, Y. L. Sun, Y. Togano, T. Uesaka, K. Wimmer, K. Yoneda, O. Aktas, T. Aumann, L. X. Chung, F. Flavigny, S. Franchoo, I. Gašparić, R.-B. Gerst, J. Gibelin, K. I. Hahn, D. Kim, T. Koiwai, Y. Kondo, P. Koseoglou, J. Lee, C. Lehr, B. D. Linh, T. Lokotko, M. MacCormick, K. Moschner, T. Nakamura, S. Y. Park, D. Rossi, E. Sahin, P.-A. Söderström, D. Sohler, S. Takeuchi, H. Toernqvist, V. Vaquero, V. Wagner, S. Wang, V. Werner, X. Xu, H. Yamada, D. Yan, Z. Yang, M. Yasuda and L. Zanetti, “ $N = 32$ shell closure below calcium: Low-lying structure of ^{50}Ar ”, *Physical Review C* **102**, 064320 (2020), [arXiv:1912.07887 \[nucl-ex\]](https://arxiv.org/abs/1912.07887)
- [31] T. L. Tang, T. Uesaka, S. Kawase, D. Beaumel, M. Dozono, T. Fujii, N. Fukuda, T. Fukunaga, A. Galindo-Uribarri, S. H. Hwang, N. Inabe, D. Kameda, T. Kawahara, W. Kim,

- K. Kisamori, M. Kobayashi, T. Kubo, Y. Kubota, K. Kusaka, C. S. Lee, Y. Maeda, H. Matsubara, S. Michimasa, H. Miya, T. Noro, A. Obertelli, K. Ogata, S. Ota, E. Padilla-Rodal, S. Sakaguchi, H. Sakai, M. Sasano, S. Shimoura, S. S. Stepanyan, H. Suzuki, M. Takaki, H. Takeda, H. Tokieda, T. Wakasa, T. Wakui, K. Yako, Y. Yanagisawa, J. Yasuda, R. Yokoyama, K. Yoshida, K. Yoshida and J. Zenihiro, “How Different is the Core of ^{25}F from $^{24}\text{O}_{\text{g.s.}}$?”, *Physical Review Letters* **124**, 212502 (2020), [arXiv:1810.10113 \[nucl-ex\]](#)
- [32] T. Lokotko, S. Leblond, J. Lee, P. Doornenbal, A. Obertelli, A. Poves, F. Nowacki, K. Ogata, K. Yoshida, G. Authelet, H. Baba, D. Calvet, F. Châteaueau, S. Chen, A. Corsi, A. Delbart, J.-M. Gheller, A. Gillibert, T. Isobe, V. Lapoux, M. Matsushita, S. Momiyama, T. Motobayashi, M. Niikura, H. Otsu, C. Péron, A. Peyaud, E. C. Pollacco, J.-Y. Roussé, H. Sakurai, C. Santamaria, Z. Y. Xu, M. Sasano, Y. Shiga, S. Takeuchi, R. Taniuchi, T. Uesaka, H. Wang, V. Werner, F. Browne, L. X. Chung, Zs. Dombradi, S. Franchoo, F. Giacoppo, A. Gottardo, K. Hadynska-Klek, Z. Korkulu, S. Koyama, Y. Kubota, M. Lettmann, C. Louchart, R. Lozeva, K. Matsui, T. Miyazaki, S. Nishimura, L. Olivier, S. Ota, Z. Patel, E. Sahin, C. Shand, P.-A. Söderström, I. Stefan, D. Steppenbeck, T. Sumikama, D. Suzuki, Zs. Vajta and J. Wu, “Shell structure of the neutron-rich isotopes $^{69,71,73}\text{Co}$ ”, *Physical Review C* **101**, 034314 (2020)
- [33] Y.L. Sun, A. Obertelli, P. Doornenbal, C. Barbieri, Y. Chazono, T. Duguet, H.N. Liu, P. Navrátil, F. Nowacki, K. Ogata, T. Otsuka, F. Raimondi, V. Somà, Y. Utsuno, K. Yoshida, N. Achouri, H. Baba, F. Browne, D. Calvet, F. Châteaueau, S. Chen, N. Chiga, A. Corsi, M.L. Cortés, A. Delbart, J.-M. Gheller, A. Giganon, A. Gillibert, C. Hilaire, T. Isobe, T. Kobayashi, Y. Kubota, V. Lapoux, T. Motobayashi, I. Murray, H. Otsu, V. Panin, N. Paul, W. Rodriguez, H. Sakurai, M. Sasano, D. Steppenbeck, L. Stuhl, Y. Togano, T. Uesaka, K. Wimmer, K. Yoneda, O. Aktas, T. Aumann, L.X. Chung, F. Flavigny, S. Franchoo, I. Gašparić, R.-B. Gerst, J. Gibelin, K.I. Hahn, D. Kim, T. Koiwai, Y. Kondo, P. Koseoglou, J. Lee, C. Lehr, B.D. Linh, T. Lokotko, M. MacCormick, K. Moschner, T. Nakamura, S.Y. Park, D. Rossi, E. Sahin, D. Sohler, P.-A. Söderström, S. Takeuchi, H. Törnqvist, V. Vaquero, V. Wagner, S. Wang, V. Werner, X. Xu, H. Yamada, D. Yan, Z. Yang, M. Yasuda and L. Zanetti, “Restoration of the natural $E(1/2_1^+) - E(3/2_1^+)$ energy splitting in odd- K isotopes towards $N = 40$ ”, *Physics Letters B* **802**, 135215 (2020)
- [34] M. L. Cortés, W. Rodriguez, P. Doornenbal, A. Obertelli, J.D. Holt, S.M. Lenzi, J. Menéndez, F. Nowacki, K. Ogata, A. Poves, T.R. Rodriguez, A. Schwenk, J. Simonis, S.R. Stroberg, K. Yoshida, L. Achouri, H. Baba, F. Browne, D. Calvet, F. Châteaueau, S. Chen, N. Chiga, A. Corsi, A. Delbart, J.-M. Gheller, A. Giganon, A. Gillibert, C. Hilaire, T. Isobe, T. Kobayashi, Y. Kubota, V. Lapoux, H.N. Liu, T. Motobayashi, I. Murray, H. Otsu, V. Panin, N. Paul, H. Sakurai, M. Sasano, D. Steppenbeck, L. Stuhl, Y.L. Sun, Y. Togano, T. Uesaka, K. Wimmer, K. Yoneda, O. Aktas, T. Aumann, L.X. Chung, F. Flavigny, S. Franchoo, I. Gašparić, R.-B. Gerst, J. Gibelin, K.I. Hahn, D. Kim, T. Koiwai, Y. Kondo, P. Koseoglou, J. Lee, C. Lehr, B.D. Linh, T. Lokotko, M. MacCormick, K. Moschner, T. Nakamura, S.Y. Park, D. Rossi, E. Sahin, D. Sohler, P.-A. Söderström, S. Takeuchi, H. Toernqvist, V. Vaquero, V. Wagner, S. Wang, V. Werner, X. Xu, H. Yamada, D. Yan, Z. Yang, M. Yasuda and L. Zanetti, “Shell evolution of $N = 40$ isotones towards ^{60}Ca : First spectroscopy of ^{62}Ti ”, *Physics Letters B* **800**, 135071 (2020)
- [35] Nguyen Tri Toan Phuc, Kazuki Yoshida and Kazuyuki Ogata, “Toward a reliable description of (p,pN) reactions in the distorted-wave impulse approximation”, *Physical Review C* **100**, 064604 (2019), [arXiv:1908.00667 \[nucl-th\]](#)

- [36] Kazuki Yoshida, Yohei Chiba, Masaaki Kimura, Yasutaka Taniguchi, Yoshiko Kanada-En'yo and Kazuyuki Ogata, “Quantitative description of the $^{20}\text{Ne}(p, p\alpha)^{16}\text{O}$ reaction as a means of probing the surface α amplitude”, *Physical Review C* **100**, 044601 (2019), [arXiv:1905.06622 \[nucl-th\]](#)
- [37] S. Chen, J. Lee, P. Doornenbal, A. Obertelli, C. Barbieri, Y. Chazono, P. Navrátil, K. Ogata, T. Otsuka, F. Raimondi, V. Somà, Y. Utsuno, K. Yoshida, H. Baba, F. Browne, D. Calvet, F. Château, N. Chiga, A. Corsi, M. L. Cortés, A. Delbart, J.-M. Gheller, A. Giganon, A. Gillibert, C. Hilaire, T. Isobe, J. Kahlbow, T. Kobayashi, Y. Kubota, V. Lapoux, H. N. Liu, T. Motobayashi, I. Murray, H. Otsu, V. Panin, N. Paul, W. Rodriguez, H. Sakurai, M. Sasano, D. Steppenbeck, L. Stuhl, Y. L. Sun, Y. Togano, T. Uesaka, K. Wimmer, K. Yoneda, N. Achouri, O. Aktas, T. Aumann, L. X. Chung, F. Flavigny, S. Franchoo, I. Gašparić, R.-B. Gerst, J. Gibelin, K. I. Hahn, D. Kim, T. Koiwai, Y. Kondo, P. Koseoglou, C. Lehr, B. D. Linh, T. Lokotko, M. MacCormick, K. Moschner, T. Nakamura, S. Y. Park, D. Rossi, E. Sahin, D. Sohler, P.-A. Söderström, S. Takeuchi, H. Törnqvist, V. Vaquero, V. Wagner, S. Wang, V. Werner, X. Xu, H. Yamada, D. Yan, Z. Yang, M. Yasuda and L. Zanetti, “Quasifree Neutron Knockout from ^{54}Ca Corroborates Arising $N = 34$ Neutron Magic Number”, *Physical Review Letters* **123**, 142501 (2019)
- [38] Mengjiao Lyu, Kazuki Yoshida, Yoshiko Kanada-En'yo and Kazuyuki Ogata, “Direct probing of the cluster structure in ^{12}Be via the α -knockout reaction”, *Physical Review C* **99**, 064610 (2019), [arXiv:1902.03117 \[nucl-th\]](#)
- [39] Z. Elekes, Á. Kriekó, D. Sohler, K. Sieja, K. Ogata, K. Yoshida, P. Doornenbal, A. Obertelli, G. Authelet, H. Baba, D. Calvet, F. Château, A. Corsi, A. Delbart, J.-M. Gheller, A. Gillibert, T. Isobe, V. Lapoux, M. Matsushita, S. Momiyama, T. Motobayashi, H. Otsu, C. Péron, A. Peyaud, E. C. Pollacco, J.-Y. Roussé, H. Sakurai, C. Santamaria, Y. Shiga, S. Takeuchi, R. Taniuchi, T. Uesaka, H. Wang, K. Yoneda, F. Browne, L. X. Chung, Zs. Dombrádi, F. Flavigny, S. Franchoo, F. Giacoppo, A. Gottardo, K. Hadyńska-Klęk, Z. Korkulu, S. Koyama, Y. Kubota, J. Lee, M. Lettmann, C. Louchart, R. Lozeva, K. Matsui, T. Miyazaki, M. Niikura, S. Nishimura, L. Olivier, S. Ota, Z. Patel, E. Sahin, C. Shand, P.-A. Söderström, I. Stefan, D. Steppenbeck, T. Sumikama, D. Suzuki, Zs. Vajta, V. Werner, J. Wu and Z. Xu, “Nuclear structure of ^{76}Ni from the $(p, 2p)$ reaction”, *Physical Review C* **99**, 014312 (2019)
- [40] Kazuki Yoshida, Kazuyuki Ogata and Yoshiko Kanada-En'yo, “Investigation of α clustering with knockout reactions”, *Physical Review C* **98**, 024614 (2018), [arXiv:1712.09079 \[nucl-th\]](#)
- [41] Mengjiao Lyu, Kazuki Yoshida, Yoshiko Kanada-En'yo and Kazuyuki Ogata, “Manifestation of α clustering in ^{10}Be via α -knockout reaction”, *Physical Review C* **97**, 044612 (2018), [arXiv:1712.09753 \[nucl-th\]](#)
- [42] Shoichiro Kawase, Tomohiro Uesaka, Tsz Leung Tang, Didier Beaumel, Masanori Dozono, Taku Fukunaga, Toshihiko Fujii, Naoki Fukuda, Alfredo Galindo-Uribarri, Sanghoon Hwang, Naoto Inabe, Takahiro Kawabata, Tomomi Kawahara, Wooyoung Kim, Keiichi Kisamori, Motoki Kobayashi, Toshiyuki Kubo, Yuki Kubota, Kensuke Kusaka, Cheongsoo Lee, Yukie Maeda, Hiroaki Matsubara, Shin'ichiro Michimasa, Hiroyuki Miya, Tetsuo Noro, Yuki Nozawa, Alexandre Obertelli, Kazuyuki Ogata, Shinsuke Ota, Elizabeth Padilla-Rodal, Satoshi Sakaguchi, Hideyuki Sakai, Masaki Sasano, Susumu Shimoura, Samvel Stepanyan, Hiroshi Suzuki, Tomokazu Suzuki, Motonobu Takaki, Hiroyuki Takeda, Atsushi Tamii, Hiroshi Tokieda, Tomotsugu Wakasa, Takashi Wakui, Kentaro Yako, Jumpei Yasuda,

Yoshiyuki Yanagisawa, Rin Yokoyama, Kazuki Yoshida, Koichi Yoshida and Juzo Zenihiro, “Exclusive quasi-free proton knockout from oxygen isotopes at intermediate energies”, *Progress of Theoretical and Experimental Physics* **2018**, 021D01 (2018)

- [43] K. Yoshida, M. Gómez-Ramos, K. Ogata and A. M. Moro, “Benchmarking theoretical formalisms for (p,pn) reactions: The $^{15}\text{C}(p,pn)^{14}\text{C}$ case”, *Physical Review C* **97**, 024608 (2018), [arXiv:1711.04458 \[nucl-th\]](#)
- [44] Kosho Minomo, Michio Kohno, Kazuki Yoshida and Kazuyuki Ogata, “Probing three-nucleon-force effects via $(p,2p)$ reactions”, *Physical Review C* **96**, 024609 (2017), [arXiv:1704.08846 \[nucl-th\]](#)
- [45] Yoshiki Chazono, Kazuki Yoshida and Kazuyuki Ogata, “Examination of the adiabatic approximation for (d,p) reactions”, *Physical Review C* **95**, 064608 (2017), [arXiv:1702.03135 \[nucl-th\]](#)
- [46] Kazuyuki Ogata and Kazuki Yoshida, “Applicability of the continuum-discretized coupled-channels method to the deuteron breakup at low energies”, *Physical Review C* **94**, 051603 (2016), [arXiv:1607.04969 \[nucl-th\]](#)
- [47] Yuen Sim Neoh, Kazuki Yoshida, Kosho Minomo and Kazuyuki Ogata, “Microscopic effective reaction theory for deuteron-induced reactions”, *Physical Review C* **94**, 044619 (2016), [arXiv:1607.06209 \[nucl-th\]](#)
- [48] Kazuki Yoshida, Kosho Minomo and Kazuyuki Ogata, “Investigating α clustering on the surface of ^{120}Sn via the $(p,p\alpha)$ reaction, and the validity of the factorization approximation”, *Physical Review C* **94**, 044604 (2016), [arXiv:1603.00638 \[nucl-th\]](#)
- [49] Kazuyuki Ogata, Kazuki Yoshida and Kosho Minomo, “Asymmetry of the parallel momentum distribution of (p,pN) reaction residues”, *Physical Review C* **92**, 034616 (2015), [arXiv:1505.06624 \[nucl-th\]](#)
- [50] Kazuki Yoshida, Tokuro Fukui, Kosho Minomo and Kazuyuki Ogata, “Extracting the electric dipole breakup cross section of one-neutron halo nuclei from inclusive breakup observables”, *Progress of Theoretical and Experimental Physics* **2014**, 053D03 (2014), [arXiv:1312.7175 \[nucl-th\]](#)

3 CONFERENCE PROCEEDINGS

- [1] Kazuki Yoshida, “Bound State Properties Studied by the Knockout Reaction”, in *Few-Body Systems*, Vol. 62 (2021), p. 28
- [2] Kazuyuki Ogata, Kosho Minomo, Michio Kohno, Takuma Matsumoto, Masanobu Yahiro, Yuma Kikuchi, Tokuro Fukui, Kazuki Yoshida and Kazuhito Mizuyama, “Microscopic effective reaction theory for direct nuclear reactions”, in *CNR*15 - 5th international workshop on compound-nuclear reactions and related topics* (2016)
- [3] Kazuki Yoshida, Tokuro Fukui, Kosho Minomo and Kazuyuki Ogata, “Extracting electric dipole breakup cross section of one-neutron halo nuclei from inclusive breakup observables”, in *JPS Conf. Proc. 2nd Conference on advances in radioactive isotope science (ARIS2014)*, Vol. 6 (2014), p. 030092

4 PH.D. THESIS

Kazuki Yoshida, “New insight into α clustering from knockout reaction analysis”, [Osaka University, Ph.D. Thesis \(2018\)](#)

5 PRESENTATION

5.1 SEMINAR/LECTURE

- [1] Kazuki Yoshida, “Knockout reactions: A simple and clean connection between nuclear structure and reaction observables”, Kyoto University, December 12, 2025
- [2] Kazuki Yoshida, “Knockout reaction theory: what we do, see and learn from nucleon and cluster knockout reactions”, [NUclear physics School for Young Scientists \(NUSYS-2025\)](#)
- [3] Kazuki Yoshida, “Lecture on knockout reaction and DWIA code PIKOE”, IBS Daejeon Korea, February 17, 2025.
- [4] Kazuki Yoshida, “Nuclear clustering phenomena revealed by knockout reaction”, iTHEMS RIKEN, November 21, 2024.
- [5] Kazuki Yoshida, “Nucleon and alpha knockout reaction”, Research Center for Nuclear Physics, Osaka University, October 29, 2024.
- [6] Kazuki Yoshida, “The α knockout reaction: recent progress and future perspectives”, Research Center for Nuclear Physics, Osaka University, May 29, 2023.
- [7] Kazuki Yoshida, “ノックアウト反応で探るアルファクラスター構造”, Kyushu University 11, Oct. 2022
- [8] Kazuki Yoshida, “Alpha clustering and the cluster knockout reaction”, [Reaction seminar 2021, online, 22, July 2021](#)
- [9] Kazuki Yoshida, “ノックアウト反応で探る原子核構造 (Nuclear structures probed with the knockout reaction)”, Kyoto University, December 13th, 2019.
- [10] Kazuki Yoshida, “Shell and cluster structures of nuclei through knockout reactions”, Japan Atomic Energy Agency, February 28th, 2018.
- [11] Kazuki Yoshida, “ノックアウト反応で実証する原子核のアルファクラスター構造”, Osaka City University, October 19th, 2017.
- [12] Kazuki Yoshida, “ノックアウト反応で探る原子核の1粒子およびアルファクラスター構造”, Kyushu University, July 27th, 2017.

5.2 INTERNATIONAL CONFERENCE

- [1] Kazuki Yoshida, “A new combination of nuclear structure and reaction theories”, [2nd Symposium on TOPTIER Platform in Extreme Rare Isotope Science](#), RIKEN Nishina Center, Wako Japan, 19-21 August 2025.
- [2] [\[invited\]](#) Kazuki Yoshida, “Nucleon and alpha knockout reactions as probes for surface amplitude”, [The 2nd IReNA-Ukakuren Joint Workshop “Advancing Nuclear Astrophysics and Beyond”](#), Osaka Metropolitan University Osaka Japan, July 15, 2025.

- [3] Kazuki Yoshida, “Recent results of alpha knockout reaction for probing alpha clustering”, **TOPTIER Focus Program: Cutting-Edge Nuclear Theories for Exotic Nuclei**, IBS Daejeon Korea, April 21, 2025.
- [4] Kazuki Yoshida, “Knockout reaction as a probe for single-particle and cluster states”, **ONE-DAY WORKSHOP ON NUCLEAR REACTIONS: THEORY AND EXPERIMENT**, University of Manchester, UK, 7 March 2025
- [5] Kazuki Yoshida, “Refraction and absorption effects in cluster knockout reactions”, **RIBF Users Meeting 2025**, RIKEN Nishina Center, Wako Japan, 21 January 2025.
- [6] Kazuki Yoshida, “Recent progress in alpha knockout reaction”, **Reimei Workshop: Recent advances on nuclear shells, clusters, correlations and their knockout reaction observables**, Technische Universität Darmstadt, Germany January 8 - 10, 2025.
- [7] Kazuki Yoshida, “Knockout reaction as a probe for surface alpha amplitude”, **RCNP-CENuM-OMEG Symposium on Nuclear Structure, Reaction, and Astrophysics: NuSRAP2024**, RCNP Osaka Univ., Japan, December 18 - 20, 2024.
- [8] Kazuki Yoshida, “Alpha knockout reaction as a probe for alpha formation in light to heavy nuclei”, **The 12th International Conference on Direct Reactions with Exotic Beams DREB2024**, Kurhaus Wiesbaden, Germany, June 24 - 28, 2024.
- [9] Kazuki Yoshida, “Microscopic optical potential and NN interaction in knockout reaction”, **Towards a consistent approach for nuclear structure and reactions: microscopic optical potentials**, ECT*, Trento, Italy, June 17 - 21, 2024.
- [10] Kazuki Yoshida, “Studies on nucleon and alpha knockout reaction theory”, **Reimei Workshop: Intersection of Nuclear Structure and Direct Reaction**, Tokai Japan, February 28 - March 1, 2024.
- [11] **[invited]** Kazuki Yoshida, “Extending the reach of the knockout reaction as a probe for the single-nucleon, cluster, and correlation in nuclei”, **Advancing physics at next RIBF (ADRIB24)**, RIKEN Nishina Center, Wako, Japan, January 23-24, 2024
- [12] **[invited]** Kazuki Yoshida, “ α knockout reaction from light to heavy nuclei”, **The African Nuclear Physics Conference 2023 (ANPC2023)**, (online) Kruger Gate Hotel, South Africa, November 29 - December 4, 2023.
- [13] **[invited]** Kazuki Yoshida, “Alpha knockout reaction as a probe for alpha formation in the ground state”, **Workshop on Nuclear Cluster Physics (WNCP2023)**, Osaka University, Japan, November 27-29, 2023.
- [14] Kazuki Yoshida, “Current status and perspectives of nucleon and α knockout reaction”, **Direct reactions and spectroscopy with hydrogen targets: past 10 years at the RIBF and future prospects**, York UK, July 31 - August 4, 2023.
- [15] Kazuki Yoshida, “Theoretical studies of cluster knockout reactions, referring also to relevant experimental activities in Japan”, **JSPS/NRF/NSFC A3 Foresight Program “Nuclear Physics in the 21st Century”**, Osaka International Convention Center, Osaka Japan, February 13-15, 2023.
- [16] **[invited]** Kazuki Yoshida, “Knockout reaction with exotic beams”, **The JPS-KPS Joint Symposium on Nuclear Physics with RI Beams, KPS 70th Anniversary and 2022 Fall Meeting**, Busan, Korea, October 19-21, 2022.

- [17] Kazuki Yoshida, “Knockout reaction mechanism and developments; What we can (not) do and what we need”, **Reimei workshop: Unveiling nuclear shells and correlations in exotic nuclei through knockout reactions**, TU Darmstadt Germany, October 9-11, 2022.
- [18] [\[invited\]](#) Kazuki Yoshida, “Recent progress and perspectives of the alpha clustering studied by the knockout reaction”, **The 15th Asia Pacific Physics Conference (APPC15)**, August 21-26, 2022 (online).
- [19] Kazuki Yoshida, “Knockout reaction as a probe for cluster formation”, **Cluster phenomena in knockout and astrophysical reactions**, Online, October 14-15, 2021.
- [20] [\[invited\]](#) Kazuki Yoshida, “Bound state properties studied by the knockout reaction”, **The 8th Asia-Pacific conference on Few-Body problems in Physics**, Kanazawa BUNKA Hall, Kanazawa, Japan, March 1-5, 2021.
- [21] Kazuki Yoshida, “Asymmetry in the nucleon knockout reaction with polarized beam (oral/poster)”, **REIMEI workshop on universal features of quantum flows with spin, orbital, and tensor correlations**, baraki quantum beam research center, Tokai, Japan, Feb. 17 - 19, 2020.
- [22] [\[invited\]](#) Kazuki Yoshida, “Reaction probes for the alpha clustering”, **Universal physics in Many-Body Quantum Systems - From Atoms to Quarks**, ECT*, Trento, Italy, October 7 - 11, 2019.
- [23] [\[invited\]](#) Kazuki Yoshida, “Theoretical studies on the knockout reaction for probing the alpha-cluster states”, **RIBF Week 2019 (RIBF Users Meeting)**, RIKEN Nishina Center, Wako, Japan, September 2-4, 2019.
- [24] Kazuki Yoshida, “Role of the spin-orbit potential in nuclear elastic scattering”, **JPEA/KEK joint mini workshop on Quantum phenomena in scatterings**, ASRC, JAEA, Japan, June 12, 2019.
- [25] [\[invited\]](#) Kazuki Yoshida, “Alpha particle formation probed with the knockout reaction”, **Tsukuba-CCS workshop on microscopic theories of nuclear structure and dynamics**, Center for Computational Science, University of Tsukuba, Japan, December 10-12, 2018.
- [26] [\[invited\]](#) Kazuki Yoshida, “Theoretical achievements and questions in the quenching problem”, **Fifth joint meeting of the nuclear physics divisions of the APS and the JPS**, Hilton Waikoloa Village, Hawaii island, United States, October 2018.
- [27] K. Yoshida, M. Gómez-Ramos, K. Ogata and A. M. Moro., “Benchmarking reaction theories for nucleon knockout reactions”, **The 10th International Workshop on DIRECT REACTIONS WITH EXOTIC BEAMS (DREB2018)**, Kunibiki Messe, Matsue, Japan, June 2018.
- [28] K. Yoshida, K. Ogata and Y. Kanada-En’yo, “Investigation on alpha clustering via knockout reaction (poster)”, **The 10th International Workshop on DIRECT REACTIONS WITH EXOTIC BEAMS (DREB2018)**, Kunibiki Messe, Matsue, Japan, June 2018.
- [29] Kazuki Yoshida, “Investigation on alpha cluster states via knockout reaction”, **Recent advances and challenges in the description of nuclear reactions at the limit of stability**, ECT*, Trento, Italy, March 2018.

- [30] Kazuki Yoshida, “Investigating the alpha-cluster state via knockout reaction (poster)”, **RIBF users meeting 2016**, RIKEN RIBF, Wako, Japan, September 2016.
- [31] K. Yoshida, K. Minomo and K. Ogata, “Investigating the single-particle and the alpha-cluster state via knockout reaction (poster)”, **The 9th International Workshop on DIRECT REACTIONS WITH EXOTIC BEAMS (DREB2016)**, Saint Mary’s University, Halifax, Canada, July 2016.
- [32] K. Yoshida, K. Minomo and K. Ogata, “Investigation of alpha cluster states using alpha knockout reactions”, **2nd International Workshop & 12th RIBF Discussion on Neutron-Proton Correlations**, The University of Hong Kong, Hong Kong, July, 2015.
- [33] K. Yoshida, T. Fukui, K. Minomo and K. Ogata, “Extracting the electric dipole breakup cross section of one-neutron halo nuclei from inclusive breakup observables”, **PKU-CUSTIPEN Nuclear Reaction Workshop**, Peking University, Beijing, August, 2014.
- [34] K. Yoshida, T. Fukui, K. Minomo and K. Ogata, “Extracting the electric dipole breakup cross section of one-neutron halo nuclei from inclusive breakup observables”, **The 8th International Workshop on DIRECT REACTIONS WITH EXOTIC BEAMS (DREB2014)**, Darmstadtium, Darmstadt, Germany, July 2014.
- [35] K. Yoshida, T. Fukui, K. Minomo and K. Ogata, “Extracting the electric dipole breakup cross section of one-neutron halo nuclei from inclusive breakup observables (poster)”, **2nd Conference on Advances in Radioactive Isotope Science (ARIS2014)**, ITO International Research Center, Univ. of Tokyo, June, 2014.
- [36] K. Yoshida, T. Fukui, K. Minomo and K. Ogata, “Target mass number dependence of neutron stripping cross sections.” **JUSTIPEN-JUSEIPEN Workshop**, RIKEN Wako campus, Saitama, Japan, December, 2013.

5.3 DOMESTIC CONFERENCE

- [1] Kazuki Yoshida, “アルファノックアウト反応の宿題”, **ノックアウト反応を用いたクラスター研究に関するワークショップ**, Miyazaki University, 24-26 December, 2025.
- [2] Tomoatsu Edagawa, Kazuki Yoshida, Shoichiro Kawase, Kazuyuki Ogata and Masaki Sasano, “ $(p, 2p)$ 反応の vector analyzing power A_z ”, **JPS 2025 Annual meeting**, Hiroshima University, 16-19 September, 2025.
- [3] Kazuki Yoshida, Yoshiki Chazono, Kazuyuki Ogata, “核内 p - d 準弾性散乱における屈折効果と重陽子ノックアウト反応への影響”, **JPS 2024 Annual meeting**, Hokkaido University, 16-19 September, 2024.
- [4] Kazuki Yoshida, “ノックアウト反応による二核子相関の研究”, **核子系と電子系における対相関と対凝縮相**, RCNP Osaka University, 9-11 September, 2024.
- [5] Kazuki Yoshida, “Knockout reaction as a probe for alpha cluster formation”, **第9回クラスター階層領域研究会**, 理化学研究所, 22,23 September, 2023.
- [6] Kazuki Yoshida, “アルファノックアウト反応のこれまでとこれから”, **九州大学 理論核物理研究会「現代核物理の広がり」と展望**, 九州大学伊都キャンパス, 19-21 July, 2023.
- [7] Kazuki Yoshida, “日本物理学会若手奨励賞受賞記念講演：アルファ粒子ノックアウト反応による核内アルファ粒子析出確率の研究”, **JPS 2023 Spring meeting**, online, 23rd March, 2023.

- [8] Kazuki Yoshida, “原子核反応と開放系としての原子核”, 第4回若手放談会：エキゾチック核物理の将来, 理研神戸・融合連携イノベーション推進棟, March 15-17, 2023.
- [9] Kazuki Yoshida, “ノックアウト反応で探る原子核クラスター構造”, **ELPH研究会C033「ハドロン分光に迫る反応と構造の物理」**, 東北大学電子光理学研究センター, December 6-7, 2022.
- [10] Kazuki Yoshida, “アルファノックアウト反応の今後”, **RCNP研究会「原子核反応研究の最近の話題と展望」**, RCNP, Osaka university, July 8-9, 2022.
- [11] Kazuki Yoshida and Junki Tanaka, “アルファノックアウトを用いたアルファ換算幅の $^{212}\text{Po}/^{210}\text{Po}$ 比決定”, **JPS 2022 Annual meeting**, Okayama University (online), 15th March, 2022.
- [12] Kazuki Yoshida, “アルファノックアウト反応の理論研究”, **おのころプロジェクトキックオフミーティング**, 淡路夢舞台国際会議場, Nov.18-20, 2021.
- [13] Kazuki Yoshida and Junki Tanaka, “アルファ崩壊核からのノックアウト反応における残留核運動量分布の非対称性”, **JPS 2021 Fall meeting**, Kobe University (online), September, 2021.
- [14] Kazuki Yoshida, “アルファノックアウト反応断面積による核表面アルファ振幅の決定”, **JPS 2021 Annual meeting**, Tokyo University (online), March, 2021.
- [15] Kazuki Yoshida, “ノックアウト反応で探る原子核構造”, **RCNP 研究会「原子核における多様な共鳴現象とそれを探る反応機構」**, RCNP, Osaka University (online), Jan. 18-20, 2021.
- [16] Kazuki Yoshida and K. Ogata and M. Atkinson and W. H. Dickhoff, “Dispersive optical model による歪曲波を用いたノックアウト反応計算とその定量性”, **JPS 2020 Annual meeting**, Nagoya University (online), March, 2020.
- [17] Kazuki Yoshida and C. Qi., “ノックアウト反応で探るアルファ崩壊核でのアルファ粒子形成率”, **JPS 2019 Fall meeting**, Yamagata Univ., September, 2019.
- [18] Kazuki Yoshida, “アルファノックアウト反応断面積の定量的理解およびクラスター状態との対応関係”, **NITEP研究会「微視的理論でつなぐ散乱観測量と核構造」**, Osaka city university, March, 2019.
- [19] Kazuki Yoshida and Y. Chiba and M. Kimura and Y. Taniguchi and Y. Kanada-En'yo and K. Ogata., “AMD波動関数を用いたアルファノックアウト反応の分析”, **JPS 2019 Annual meeting**, Kyushu university, Fukuoka, March, 2019.
- [20] Kazuki Yoshida, “ノックアウト反応でみる基底状態でのアルファクラスター”, 基研研究会「**Threshold Rule 50**」, Yukawa Institute for Theoretical Physics, Kyoto Univ., September, 2018.
- [21] Kazuki Yoshida and M. Gómez-Ramos and K. Ogata and A. M. Moro., “ノックアウト反応理論のベンチマークテスト”, **JPS 2018 Annual (73th) meeting**, Tokyo university of science, Chiba, March, 2018.
- [22] Kazuki Yoshida, “ノックアウト反応でみる原子核構造”, 大阪市大ワークショップ「原子核のダイナミクスの現状と展望 **Highlights and Outlooks on Dynamics of Atomic Nuclei**」, Osaka city university, February, 2018.

- [23] Kazuki Yoshida and K. Ogata and Y. Kanada-En'yo., “アルファノックアウト反応の表面性”, **JPS 2017 Fall meeting**, Utsunomiya university, Tochigi, September, 2017.
- [24] Kazuki Yoshida and K. Minomo and K. Ogata, “核内2核子相互作用のスピンの依存性と核子ノックアウト反応のスピンの偏極量”, **JPS 2017 Fall meeting**, Utsunomiya university, Tochigi, September, 2017.
- [25] Kazuki Yoshida and K. Minomo and K. Ogata, “核子ノックアウト反応でみる媒質中の2核子散乱”, **基研研究会「核力に基づく核構造, 核反応物理の展開」**, Yukawa institute for theoretical physics, Kyoto, March, 2017.
- [26] Kazuki Yoshida and K. Minomo and K. Ogata, “核子ノックアウト反応でみる媒質中の2核子散乱のスピンの依存性”, **JPS 2017 Annual (72th) meeting**, Osaka university, Osaka, March, 2017.
- [27] Kazuki Yoshida and Y. Kanada-En'yo and K. Ogata, “ノックアウト反応でみるアルファクラスター状態”, **クラスター・平均場の両側面からみる原子核構造の多様性とそのダイナミクス**, Osaka City Univ., Osaka, January, 2017.
- [28] Kazuki Yoshida and K. Minomo and K. Ogata, “重陽子による核子ノックアウト反応の記述”, **JPS 2016 Fall meeting**, Miyazaki university, Miyazaki, September, 2016.
- [29] Kazuki Yoshida and K. Minomo and K. Ogata, “アイコンナル波動関数を用いた歪曲波インパルス近似の妥当性”, **JPS 2016 Annual (71th) meeting**, Tohoku Gakuin university, Miyagi, March, 2016.
- [30] Kazuki Yoshida and K. Minomo and K. Ogata, “ $(p,p\alpha)$ 反応で探るアルファクラスター状態”, **JPS 2015 Fall meeting**, Osaka city university, Osaka, September, 2015.
- [31] Kazuki Yoshida and K. Minomo and K. Ogata, “逆運動学 (p,pN) 反応における残留核運動量分布の非対称性”, **JPS 2015 Annual (70th) meeting**, Waseda university, Tokyo, March, 2015.
- [32] Kazuki Yoshida and T. Fukui and K. Minomo and K. Ogata, “中性子ハロー核の観測量からのE1分解断面積計算法”, **九大研究会「中性子過剰領域における弱束縛系の物理」**, Kyushu university, Fukuoka, March, 2015.
- [33] Kazuki Yoshida and T. Fukui and K. Minomo and K. Ogata, “観測量からのE1分解断面積計算法 (poster)”, **卓越スクール**, 白浜荘, March, 2014.
- [34] Kazuki Yoshida and T. Fukui and K. Minomo and K. Ogata, “核力による1中性子剥離断面積の標的核依存性”, **JPS 2014 Annual (69th) meeting**, Tokai university, Kanagawa, March, 2014.
- [35] Kazuki Yoshida and T. Fukui and K. Minomo and K. Ogata, “ハロー核の分解反応における核力とクーロン力の役割”, **JPS 2013 Fall meeting**, Kochi university, Kochi, September, 2013.
- [36] Kazuki Yoshida and T. Fukui and K. Minomo, and K. Ogata, “ハロー核の分解反応における核力とクーロン力の役割”, **RCNP/九大研究会 ハドロン物理と原子核物理のクロスオーバー**, Kyushu university, Fukuoka, September, 2013.
- [37] Kazuki Yoshida and T. Fukui and K. Minomo, and K. Ogata, “ハロー核の分解反応における核力とクーロン力の役割”, **YONUPA summer school 2013**, Hotel Tatsuki, Aichi, August, 2013.

6 CLASS/LECTURE

- [1] 2025年4月-5月 物理学セミナー (大阪大学)

7 ORGANIZER

- [1] “The 2nd IReNA-Ukakuren Joint Workshop: Advancing Nuclear Astrophysics and Beyond”, [Osaka Metropolitan University Osaka Japan, July 15, 2025](#).
- [2] “ONE-DAY WORKSHOP ON NUCLEAR REACTIONS: THEORY AND EXPERIMENT”, [University of Manchester, UK, 7 March 2025](#)
- [3] “Reimei Workshop: Recent advances on nuclear shells, clusters, correlations and their knockout reaction observables”, [Technische Universität Darmstadt Germany, January 8 - 10, 2025](#).
- [4] “Reimei Workshop: Intersection of Nuclear Structure and Direct Reaction”, [Tokai Japan, February 28 - March 1, 2024](#).
- [5] “Direct reactions and spectroscopy with hydrogen targets: past 10 years at the RIBF and future prospects”, [York, United Kingdom, July 31 - August 4, 2023](#).
- [6] “RCNP研究会「原子核反応研究の最近の話題と展望」”, [RCNP, Osaka university, Japan, July 8-9, 2022](#).
- [7] “Cluster phenomena in knockout and astrophysical reactions”, [Online, October 14-15, 2021](#).
- [8] “Reimei workshop on Universal Features of Quantum Flows with Spin, Orbital and Tensor Correlations”, [Ibaraki Quantum Beam Research Center, Tokai, Ibaraki, Japan, February 17-19, 2020](#).
- [9] “The 50th Reimei workshop: Universal Physics in Many-Body Quantum Systems -From Atoms to Quarks-”, [Ibaraki Quantum Beam Research Center, Tokai, Ibaraki, Japan, December 12-14, 2018](#).
- [10] “YONUPA summer school 2015”, [Hotel Tatsuki, Aichi, Japan, August, 2015](#).

8 COMMITTEE

- [1] (2024 April - 2029 March) RIBF Users Executive Committee
- [2] (2023 - present) Research Center for Nuclear Physics, Beam-time Program Advisory Committee

9 AWARD

- [1] The University of Osaka Award, 28th Nov. 2025.
- [2] [Young Scientist Award of the Physical Society of Japan, 2023. Alpha clustering in atomic nuclei probed by alpha knockout reactions](#)
- [3] “ASRC (Advanced Science Research Center, JAEA) director general’s award 2019.” **For significant contributions to theoretical study on nuclear reaction for probing nuclear structures.** 24th March 2020.

- [4] “First prize for a poster presentation (theory)”, **The 9th International Workshop on DIRECT REACTIONS WITH EXOTIC BEAMS (DREB2016)**, 15th July 2016. Investigating the single-particle and the alpha-cluster state via knockout reaction

10 FUND

- [1] Grand-in-Aid for Encouragement of Young Scientists “Construction of a reaction theory treating resonance states explicitly” (25K17400), FY2025 – FY2029, Kazuki Yoshida
- [2] **Probing Exotic Nuclei: Insights from Breakup, Knockout and Transfer Reactions**, The University of Manchester-Osaka University Seed-corn fund, 1st Nov. 2024 – 31st Mar. 2025
- [3] Grand-in-Aid for Encouragement of Young Scientists “Direct and comprehensive study of alpha-cluster structure using scattering observables” (20K14475), FY2020 – FY2024, Kazuki Yoshida
- [4] **Unveiling nuclear shells and correlations in exotic nuclei through knockout reactions**, REIMEI project (competitive fund in JAEA), FY2022 – FY2024
- [5] **Research on nuclear clustering by new reaction probes**, RCNP COREnet, 2020
- [6] **Study on the independent particle picture of unstable nuclei via systematic analysis of the nucleon knockout reaction**, Research Fellow of the Japan Society for the Promotion of Science (JSPS): DC1 FY2015 – FY2018 Grant number: 15J01392