Jin Lei, Ph.D.

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Employment History

2023.2 – Now **Professor** Tongji University

2020.11 – 2023.2 **Research Fellow** Tongji University

2019.11 – 2020.10 **Post-Doctoral Research Associate** INFN, Sezione di Pisa
Supervisor: Dr. Angela Bonaccorso

2016.8 –2019.8 **Post-Doctoral Research Associate** Department of Physics and Astronomy, Ohio University
Supervisor: Prof. Charlotte Elster

Education

2013.10 – 2016.7 **Ph.D., University of Seville, Spain** in Theoretical Nuclear Physics.
Supervisor: Prof. Antonio M. Moro
Thesis title: *Study of Inclusive Breakup Reactions Induced by Weakly Bound Nuclei.*
More details at https://idus.us.es/xmlui/handle/11441/44344

2010.9 – 2013.7 **M.Sc., University of Chinese Academic of Sciences, China** in Nuclear Physics
Supervisor: Prof. Jiansong Wang
Thesis title: *Reduction Method for Low-energy Nuclear Reaction Systems.*

2006.9 – 2010.7 **B.Eng., Northeastern University, China.** in Mechanical Engineering

Skills

Languages Native speaker of Chinese; strong reading, writing and speaking competencies in English.

Coding C/C++, Fortran, LaTeX

Research Publications

Journal Articles

1. **Jin Lei**, 'Numerical assessment of convergence in the post-form ichimura-austern-vincent model', Phys. Rev. C **112**, 014609 (2025).

2. G. Yang, K. Wang, H. Liu, W. D. Chen, Y. Y. Yang, F. F. Duan, **Jin Lei**, D. Y. Pang, Z. H. Gao, S. Y. Jin, J. S. Wang, X. Liu, S. W. Xu, J. B. Ma, P. Ma, Z. Bai, Q. Hu and Z. Y. Sun, 'Direct measurement of 8B+p and 7Be+2p cross sections for 9C+208Pb at 303 mev', Phys. Rev. C **111**, 064602 (2025).

3. **Jin Lei**, 'Continuum effects and the trojan horse mechanism in halo nuclei-induced reactions: implications for heavy isotope synthesis', Phys. Rev. C **111**, 034610 (2025).

4. Hao Liu, **Jin Lei** and Zhongzhou Ren, 'Kolmogorov-arnold networks in nuclear binding energy prediction', Phys. Rev. C **111**, 024316 (2025).

5. Junzhe Liu, **Jin Lei** and Zhongzhou Ren, 'Coloss: complex-scaled optical and coulomb scattering solver', Computer Physics Communications **311**, 109568 (2025).

6. K. Wang, Y. Y. Yang, **Jin Lei**, A. M. Moro, V. Guimarães, J. G. Li, F. F. Duan, Z. Y. Sun, G. Yang, D. Y. Pang, S. W. Xu, J. B. Ma, P. Ma, Z. Bai, Q. Liu, J. L. Lou, H. J. Ong, B. F. Lv, S. Guo, M. Kumar Raju, X. H. Wang, R. H. Li, X. X. Xu, Z. Z. Ren, Y. H. Zhang, X. H. Zhou, Z. G. Hu and H. S. Xu, 'Elastic scattering and breakup reactions of the mirror nuclei 12B and 12N on 208Pb using ab initio structure inputs', Phys. Rev. C **109**, 014624 (2024).

7. Junzhe Liu, **Jin Lei** and Zhongzhou Ren, 'A complex scaling method for efficient and accurate scattering emulation in nuclear reactions', Physics Letters B **858**, 139070 (2024).

8. G. Villanueva, A.M. Moro, J. Casal and **Jin Lei**, 'Neutron-transfer induced breakup of the borromean nucleus 9be', Physics Letters B **855**, 138766 (2024).

9. **Jin Lei** and Antonio M. Moro, 'Advancing the ichimura-austern-vincent model with continuum-discretized coupled-channels wave functions for realistic descriptions of two-body projectile breakup', Phys. Rev. C **108**, 034612 (2023).

10. Junzhe Liu, **Jin Lei** and Zhongzhou Ren, 'Testing the validity of the surface approximation for reactions induced by weakly bound nuclei with a fully quantum-mechanical model', Phys. Rev. C **108**, 024606 (2023).

11. Yazhou Lu, **Jin Lei** and Zhongzhou Ren, 'Systematic single-folding optical potential for 6Li and 7Li based on kd02 potentials', Phys. Rev. C **108**, 024612 (2023).

12. Hao Liu, Shinsuke Nakayama, **Jin Lei** and Zhongzhou Ren, 'Comparison of ichimura-austern-vincent and glauber models for the deuteron-induced inclusive breakup reaction in light and medium-mass nuclei', Phys. Rev. C **108**, 014617 (2023).

13. Antonio M. Moro, **Jin Lei** and Edward C. Simpson, 'Modelling inclusive breakup: application to incomplete fusion', Journal of Physics: Conference Series **2340**, 012034 (2022).

14. K. Wang, Y. Y. Yang, V. Guimarães, D. Y. Pang, F. F. Duan, Z. Y. Sun, **Jin Lei**, G. Yang, S. W. Xu, J. B. Ma, Q. Liu, Z. Bai, H. J. Ong, B. F. Lv, S. Guo, X. H. Wang, R. H. Li, M. Kumar Raju, Z. G. Hu and H. S. Xu, 'Elastic scattering investigation of radioactive 13B and 13O projectiles on a 208Pb target at intermediate energies', Phys. Rev. C **105**, 054616 (2022).

15. F. F. Duan, Y. Y. Yang, **Jin Lei**, K. Wang, Z. Y. Sun, D. Y. Pang, J. S. Wang, X. Liu, S. W. Xu, J. B. Ma, P. Ma, Z. Bai, Q. Hu, Z. H. Gao, X. X. Xu, C. J. Lin, H. M. Jia, N. R. Ma, L. J. Sun, D. X. Wang, G. Yang, S. Y. Jin, Z. Z. Ren, Y. H. Zhang, X. H. Zhou, Z. G. Hu and H. S. Xu, 'Elastic scattering and breakup reactions of neutron-rich nucleus 11Be on 208Pb at 210 mev', Phys. Rev. C **105**, 034602 (2022).

16. O. C. B. Santos, R. Lichtenthäler, K. C. C. Pires, U. Umbelino, E. O. N. Zevallos, A. L. de Lara, A. S. Serra, V. Scarduelli, J. Alcántara-Núñez, V. Guimarães, A. Lépine-Szily, J. C. Zamora, A. M. Moro, S. Appannababu, M. Assun ção, A. Barioni, R. Linares, V. A. B. Zagatto, P. N. de Faria, M. C. Morais, V. Morcelle, J. M. B. Shorto and **Jin Lei**, 'Evidence of the effect of strong stripping channels on the dynamics of the 8Li+58Ni reaction', Phys. Rev. C **103**, 064601 (2021).

17. K. Wang, Y. Y. Yang, A. M. Moro, V. Guimarães, **Jin Lei**, D. Y. Pang, F. F. Duan, J. L. Lou, J. C. Zamora, J. S. Wang, Z. Y. Sun, H. J. Ong, X. Liu, S. W. Xu, J. B. Ma, P. Ma, Z. Bai, Q. Hu,

X. X. Xu, Z. H. Gao, G. Yang, S. Y. Jin, Y. H. Zhang, X. H. Zhou, Z. G. Hu and H. S. Xu, 'Elastic scattering and breakup reactions of the proton drip-line nucleus 8B on 208Pb at 238 mev', Phys. Rev. C **103**, 024606 (2021).

18 M. Gómez-Ramos, J. Gómez-Camacho, **Jin Lei** and A. M. Moro, 'The Hussein–McVoy formula for inclusive breakup revisited: A Tribute to Mahir Hussein', Eur. Phys. J. A **57**, 57 (2021).

19 **Jin Lei** and Angela Bonaccorso, 'Comparison of semiclassical transfer to continuum model with ichimura-austern-vincent model in medium energy knockout reactions', Physics Letters B **813**, 136032 (2021).

20 R. Spartà, A. Di Pietro, P. Figuera, O. Tengblad, A.M. Moro, I. Martel, J.P. Fernández-García, **Jin Lei**, L. Acosta, M.J.G. Borge, G. Bruni, J. Cederkäll, T. Davinson, J.D. Ovejas, L.M. Fraile, D. Galaviz, J. Halkjaer Jensen, B. Jonson, M. La Cognata, A. Perea, A.M. Sánchez-Benítez, N. Soić and S. Viñals, 'Probing proton halo effects in the 8b+64zn collision around the coulomb barrier', Physics Letters B **820**, 136477 (2021).

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22 Calvin W Johnson, Kristina D Launey, Naftali Auerbach, Sonia Bacca, Bruce R Barrett, Carl R Brune, Mark A Caprio, Pierre Descouvemont, W H Dickhoff, Charlotte Elster, Patrick J Fasano, Kevin Fossez, Heiko Hergert, Morten Hjorth-Jensen, Linda Hlophe, Baishan Hu, Rodolfo M Id Betan, Andrea Idini, Sebastian König, Konstantinos Kravvaris, Dean Lee, **Jin Lei**, Alexis Mercenne, Rodrigo Navarro Perez, Witold Nazarewicz, Filomena M Nunes, Marek Płoszajczak, Jimmy Rotureau, Gautam Rupak, Andrey M Shirokov, Ian Thompson, James P Vary, Alexander Volya, Furong Xu, Remco G T. Zegers, Vladimir Zelevinsky and Xilin Zhang, 'White paper: from bound states to the continuum', Journal of Physics G: Nuclear and Particle Physics **47**, 123001 (2020).

23 **Jin Lei** and Pierre Descouvemont, 'Lagrange-mesh r-matrix method for inhomogeneous equations', Phys. Rev. C **102**, 014608 (2020).

24 F.F. Duan, Y.Y. Yang, K. Wang, A.M. Moro, V. Guimarães, D.Y. Pang, J.S. Wang, Z.Y. Sun, **Jin Lei**, A. Di Pietro, X. Liu, G. Yang, J.B. Ma, P. Ma, S.W. Xu, Z. Bai, X.X. Sun, Q. Hu, J.L. Lou, X.X. Xu, H.X. Li, S.Y. Jin, H.J. Ong, Q. Liu, J.S. Yao, H.K. Qi, C.J. Lin, H.M. Jia, N.R. Ma, L.J. Sun, D.X. Wang, Y.H. Zhang, X.H. Zhou, Z.G. Hu and H.S. Xu, 'Scattering of the halo nucleus 11be from a lead target at 3.5 times the coulomb barrier energy', Physics Letters B **811**, 135942 (2020).

25 J. P. Fernández-García, A. Di Pietro, P. Figuera, J. Gómez-Camacho, M. Lattuada, **Jin Lei**, A. M. Moro, M. Rodríguez-Gallardo and V. Scuderi, 'Breakup mechanisms in the ^{6}He $+^{64}$ Zn reaction at near-barrier energies', Phys. Rev. C **99**, 054605 (2019).

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27 **Jin Lei** and Antonio M. Moro, 'Puzzle of Complete Fusion Suppression in Weakly Bound Nuclei: A Trojan Horse Effect?', Phys. Rev. Lett. **122**, 042503 (2019).

28 **Jin Lei** and Antonio M. Moro, 'Unraveling the Reaction Mechanisms Leading to Partial Fusion of Weakly Bound Nuclei', Phys. Rev. Lett. **123**, 232501 (2019).

29 Rodrigo Navarro Pérez and **Jin Lei**, 'Is the unusual near-threshold potential behavior in elastic scattering of weakly-bound nuclei a precision error?', Physics Letters B **795**, 200–205 (2019).

30 A. Di Pietro, A.M. Moro, **Jin Lei** and R. de Diego, 'Insights into the dynamics of breakup of the halo nucleus 11Be on a 64Zn target', Physics Letters B **798**, 134954 (2019).

31 **Jin Lei**, 'Inclusive breakup calculations in angular momentum basis: Application to ^{7}Li $+^{58}$ Ni', Phys. Rev. C **97**, 034628 (2018).

32 **Jin Lei**, L. Hlophe, Ch. Elster, A. Nogga, F. M. Nunes and D. R. Phillips, 'Few-body universality in the deuteron-α system', Phys. Rev. C **98**, 051001(R) (2018).

33 **Jin Lei** and Antonio M. Moro, 'Post-prior equivalence for transfer reactions with complex potentials', Phys. Rev. C **97**, 011601(R) (2018).

34 L. Hlophe, **Jin Lei**, Ch. Elster, A. Nogga and F. M. Nunes, '^{6}Li in a three-body model with realistic Forces: Separable versus nonseparable approach', Phys. Rev. C **96**, 064003 (2017).

35 **Jin Lei** and Antonio M. Moro, 'Comprehensive analysis of large α yields observed in ^{6}**Li**-induced reactions', Phys. Rev. C **95**, 044605 (2017).

36 G. Potel, G. Perdikakis, B. V. Carlson, M. C. Atkinson, W. H. Dickhoff, J. E. Escher, M. S. Hussein, **Jin Lei**, W. Li, A. O. Macchiavelli, A. M. Moro, F. M. Nunes, S. D. Pain and J. Rotureau, 'Toward a complete theory for predicting inclusive deuteron breakup away from stability', The European Physical Journal A **53**, 178 (2017).

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38 **Jin Lei** and Antonio M. Moro, 'Numerical assessment of post-prior equivalence for inclusive breakup reactions', Phys. Rev. C **92**, 061602(R) (2015).

39 **Jin Lei** and Antonio M. Moro, 'Reexamining closed-form formulae for inclusive breakup: Application to deuteron- and ^{6}Li-induced reactions', Phys. Rev. C **92**, 044616 (2015).

40 Y. Y. Yang, J. S. Wang, Q. Wang, D. Y. Pang, J. B. Ma, M. R. Huang, P. Ma, S. L. Jin, J. L. Han, Z. Bai, **Jin Lei**, J. B. Chen, Q. Hu, R. Wada, S. Mukherjee, Z. Y. Sun, R. F. Chen, X. Y. Zhang, Z. G. Hu, X. H. Yuan, S. W. Xu, S. Z. Chen, X. G. Lei, L. X. Liu, W. H. Ma, S. T. Wang, D. Yan, X. H. Zhang, M. H. Zhao, Y. Zhou, Y. J. Zhou, Z. Y. Guo, Y. H. Zhang, H. S. Xu and G. Q. Xiao, 'Quasi-elastic scattering of ^{10,11}C and ^{10}B from a $^{\mathrm{nat}}$Pb target', Phys. Rev. C **90**, 014606 (2014).

41 Y. Y. Yang, J. S. Wang, Q. Wang, D.Y Pang, J. B. Ma, M. R. Huang, J. L. Han, P. Ma, S. L. Jin, Z. Bai, Q. Hu, **Jin Lei**, J. B. Chen, N. Keeley, K. Rusek, R. Wada, S. Mukherjee, Z. Y. Sun, R. F. Chen, X. Y. Zhang, Z. G. Hu, X. H. Yuan, X. G. Cao, Z. G. Xu, S. W. Xu, C. Zhen, Z. Q. Chen, Z. Chen, S. Z. Chen, C. M. Du, L. M. Duan, F. Fu, B. X. Gou, J. Hu, J. J. He, X. G. Lei, S. L. Li, Y. Li, Q. Y. Lin, L. X. Liu, F. D. Shi, S. W. Tang, G. Xu, X. Xu, L. Y. Zhang, X. H. Zhang, W. Zhang, M. H. Zhao, Z. Y. Guo, Y. H. Zhang, H. S. Xu and G. Q. Xiao, 'Elastic scattering of the proton drip-line nucleus ^{8}B off a $^{\mathrm{nat}}$Pb target at 170.3 MeV', Phys. Rev. C **87**, 044613 (2013).

42 Y.Y. Yang, J.S. Wang, Q. Wang, J.B. Ma, M.R. Huang, J.L. Han, P. Ma, S.L. Jin, Z. Bai, Q. Hu, **Jin Lei**, J.B. Chen, R. Wada, Z.Y. Sun, R.F. Chen, X.Y. Zhang, Z.G. Hu, X.H. Yuan, X.G. Cao, Z.G. Xu, S.W. Xu, C. Zhen, Z.Q. Chen, Z. Chen, S.Z. Chen, C.M. Du, L.M. Duan, F. Fu,

B.X. Gou, J. Hu, J.J. He, X.G. Lei, S.L. Li, Y. Li, Q.Y. Lin, L.X. Liu, F.D. Shi, S.W. Tang, G. Xu, X. Xu, L.Y. Zhang, X.H. Zhang, W. Zhang, M.H. Zhao, Y.H. Zhang and H.S. Xu, 'A method for the measurement of elastic scattering angular distribution at HIRFL-RIBLL', Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment **701**, 1–6 (2013).

43 **Jin Lei**, J. S. Wang, S. Mukherjee, Q. Wang and R. Wada, 'Phenomenological formula of total reaction cross sections for low-energy systems', Phys. Rev. C **86**, 057603 (2012).

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Conference Proceedings

1 A.M. Moro, J. Casal, **Jin Lei** and M. Gómez-Ramos, 'Reaction theory and advanced CDCC', Journal of Physics: Conference Series **1643**, 012100 (2020).

2 L. Hlophe, **Jin Lei**, Ch. Elster, A. Nogga and F. M. Nunes, 'Three-body approach to deuteron-alpha scattering using realistic forces in a separable or non-separable representation', Recent Progress in Few-Body Physics, edited by N. A. Orr, M. Ploszajczak, F. M. Marqués and J. Carbonell, 267–271 (2020).

3 F.M. Nunes, P.C. Capel, Ch. Elster, L. Hlophe, **Jin Lei**, Weichuan Li, A.E. Lovell, G. Potel, J. Rotureau and T. Poxon-Pearson, 'New developments in reaction theory: preparing for the frib era', EPJ Web Conf. **178**, 03001 (2018).

4 **Jin Lei** and Antonio M. Moro, 'Evaluation of inclusive breakup cross sections in reactions induced by weakly-bound nuclei within a three-body model', EPJ Web of Conferences **117**, 06016 (2016).

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8 A. M. Moro, **Jin Lei**, M. Gómez-Ramos, J. M. Arias, R. de Diego, J. Gómez-Camacho and J. A. Lay, 'Recent Developments for the Calculation of Elastic and Non-elastic Breakup of Weakly-bound Nuclei', Acta Phys. Polon. **B47**, 821 (2016).

9 Antonio M. Moro and **Jin Lei**, 'Recent Advances in Nuclear Reaction Theories for Weakly Bound Nuclei: Reexamining the Problem of Inclusive Breakup', Few-Body Systems **57**, 319–330 (2016).

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Teaching

2022-now
- Atomic Physics, Undergraduate course, Tongji University.

2019
- Talent Course 6: Theory for exploring nuclear reaction experiments, June 3 to 21, 2019, Michigan State University, East Lansing, MI, USA
- Graduate course, Ohio University, 2019. On a few occasions, I helped Professor Charlotte Elster teach Physics 6021 : Quantum Mechanics.

Miscellaneous Experience

Professional Service

2020
- Lead Organizer: Reaction Seminar, a special online seminar series for the COVID-19 period, more details can be found at `https://reactionseminar.github.io`

2021
- Lead Organizer: Reaction Seminar 2021, a special online seminar series for the COVID-19 period, more details can be found at `https://reactionseminar2021.github.io`

References

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