Publications

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Research, Publications, books, refereed scientific articles and proceedings

Books:

1. Morten Hjorth-Jensen, M.P. Lombardo and U. van Kolck, *Computational Nuclear Physics-Bridging the scales, from quarks to neutron stars*, Lectures Notes in Physics by Springer, Volume **936** (2017).

Publications in journals with a referee system:

1. E. Lima, L. L. Braseth, A. H. Mjøs, M. Hjorth-Jensen, A. Kvellestad, A. C. Larsen, Regularized Unfolding of gamma-ray Spectra for Nuclear Physics Applications, Physical Review C under review and https://arxiv.org/abs/2506.xxx

2. Juan Manuel Scarpetta, John Henry Reina, and Morten Hjorth-Jensen, **Machine learning non-Markovian two-level quantum noise spectroscopy**, Physical Review Research, under review and https://arxiv.org/abs/2506.06555

3. Ahmed Abuali, David A. Clarke, Morten Hjorth-Jensen, Ioannis Konstantinidis, Claudia Ratti, Jianyi Yang, **Deep learning of phase transitions with minimal examples**, Physical Review E, in press (2025) and https://arxiv.org/abs/2501.05547

4. Patrick Cook, Danny Jammooa, Morten Hjorth-Jensen, Daniel D. Lee, Dean Lee, **Parametric Matrix Models**, Nature Communications **16**, 5929 (2025) and https://www.nature.com/articles/s41467-025-61362-4

5. Julie Butler, Morten Hjorth-Jensen, and Gustav R. Jansen, **Coupled-Cluster Calculations of Infinite Nuclear Matter in the Complete Basis Limit Using Bayesian Machine Learning**, Physical Review C **111**, (2025) and https://arxiv.org/abs/2409.18234

6. Bryce Fore, Jane Kim, Morten Hjorth-Jensen, Alessandro Lovato, **Investigating the crust of neutron stars with neural-network quantum states**, Communications Physics **8**, 108 (2025) and https://www.nature.com/articles/s42005-025-02015-2

7. Niyaz R. Beysengulov, Johannes Pollanen, Øyvind S. Schøyen, Stian D. Bilek, Jonas B. Flaten, Oskar Leinonen, Håkon Emil Kristiansen, Zachary J. Stewart, Jared D. Weidman, Angela K. Wilson, Morten Hjorth-Jensen, Coulomb interaction-driven entanglement of electrons on helium, PRX Quantum 5, 030324 (2024) and https://journals.aps.org/prxquantum/abstract/10.1103/PRXQuantum.5.030324

8. Julie Butler, Morten Hjorth-Jensen, and Justin G. Lietz, **Accelerating the Convergence of Coupled Cluster Calculations of the Homogeneous Electron Gas Using Bayesian Ridge Regression**, Journal of Chemical Physics **161**, 134108 (2024) and https://doi.org/10.1063/5.0222773

9. Jane Kim, Gabriel Pescia, Bryce Fore, Jannes Nys, Giuseppe Carleo, Stefano Gandolfi, Morten Hjorth-Jensen, Alessandro Lovato, **Neural-network quantum states for ultra-cold Fermi gases**, Communications Physics **7**, 148 (2024) and https://www.nature.com/articles/s42005-024-01613-w

10. Bryce Fore, Jane M. Kim, Giuseppe Carleo, Morten Hjorth-Jensen, Alessandro Lovato, and Maria Piarulli, **Dilute neutron star matter from neural-network quantum states**, Physical Review Research 5, 033062 (2023)

11. Mauro Rigo, Benjamin Hall, Morten Hjorth-Jensen, Alessandro Lovato, Francesco Pederiva, **Solving the nuclear pairing model with neural network quantum states**, Physical Review E **107**, 025310 (2023)

12. Even M. Nordhagen, Jane M. Kim, Bryce Fore, Alessandro Lovato, Morten Hjorth-Jensen, **Efficient Solutions of Fermionic Systems using Artificial Neural Networks**, Frontiers in Physics 11, 1061580 (2023)

13. Kaspara Skovli Gåsvær, Pedro G. Lind, Johannes Langguth, Morten Hjorth-Jensen, Michael Kreil, Daniel Thilo Schroeder, **Harmful Conspiracies in Temporal Interaction Networks: Understanding the Dynamics of Digital Wildfires through Phase Transitions**, https://arxiv.org/abs/2310.05542 and Complex Networks 2023, Springer, in press

14. D. Mroczek, M. Hjorth-Jensen, J. Noronha-Hostler, P. Parotto, C. Ratti, R. Vilalta, **Mapping out the thermodynamic stability of a QCD equation of state with a critical point using active learning**, Physical Review C **107**, 054911 (2023)

15. Oliver Lerstøl Hebnes, Marianne Etzelmüller Bathen, Øyvind Sigmundson Schøyen, Sebastian G. Winther Larsen, Lasse Vines, Morten Hjorth-Jensen,

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16. Amber Boehnlein, Markus Diefenthaler, Cristiano Fanelli, Morten Hjorth-Jensen, Tanja Horn, Michelle P. Kuchera, Dean Lee, Witold Nazarewicz, Kostas Orginos, Peter Ostroumov, Long-Gang Pang, Alan Poon, Nobuo Sato, Malachi Schram, Alexander Scheinker, Michael S. Smith, Xin-Nian Wang, Veronique Ziegler, **Machine Learning in Nuclear Physics**, Reviews of Modern Physics 94, 031003 (2022)

17. D. Rhodes, B. A. Brown, J. Henderson, A. Gade, J. Ash, P. C. Bender, R. Elder, B. Elman, M. Grinder, M. Hjorth-Jensen, H. Iwasaki, B. Longfellow, T. Mijatovic, M. Spieker, D. Weisshaar, and C. Y. Wu, **Exploring the role of high-j configurations in collective observables through the Coulomb excitation of 106Cd**, Physical Review C **103**, L051301 (2021)

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26. Morten Hjorth-Jensen, M.P. Lombardo and U. van Kolck, **Motivation and Overarching Aims*, *Lecture Notes in Physics**, Editors M. Hjorth-Jensen, M.P. Lombardo and U. van Kolck, Volume **936** pages 1-4 (2017).

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