Publications

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Research, Publications, books, refereed scientific articles, talks and research grants

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. 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 under review (2025) and https://arxiv.org/abs/2501.05547

2. 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 under review (2024) and https://arxiv.org/abs/2409.18234

3. Bryce Fore, Jane Kim, Morten Hjorth-Jensen, Alessandro Lovato, **Investigating the crust of neutron stars with neural-network quantum states**, Nature Communications in press and https://arxiv.org/abs/2407.21207

4. Patrick Cook, Danny Jammooa, Morten Hjorth-Jensen, Daniel D. Lee, Dean Lee, **Parametric Matrix Models**, Nature Communications under review and https://arxiv.org/abs/2401.11694

5. 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

6. 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

7. 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**, Nature Communications Physics **7**, 148 (2024) and https://www.nature.com/articles/s42005-024-01613-w

8. 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)

9. 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)

10. 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)

11. 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

12. 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)

13. Oliver Lerstøl Hebnes, Marianne Etzelmüller Bathen, Øyvind Sigmundson Schøyen, Sebastian G. Winther Larsen, Lasse Vines, Morten Hjorth-Jensen, **Predicting Solid State Material Platforms for Quantum Technologies**, npj Computational Materials 8, 207 (2022)

14. 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)

15. 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)

16. Dean Lee, Scott Bogner, B. Alex Brown, Serdar Elhatisari, Evgeny Epelbaum, Heiko Hergert, Morten Hjorth-Jensen, Hermann Krebs, Ning Li, Bing-Nan Lu, Ulf-G. Meissner, Robert B. Wiringa, **Hidden spin-isospin exchange symmetry**, Physical Review Letters **127**, 062501 (2021)

17. Aynom T. Teweldebrhan, Thomas Schuler, John Burkhart, and Morten Hjorth-Jensen, *Coupled machine learning and the limits of acceptability approach applied in parameter identification for a distributed hydrological model*, Hydrology and Earth System Sciences 24, (2020), 4641

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26. Fei Yuan, Sam Novario, Nathan Parzuchowski, Sarah Reimann, Scott K. Bogner and Morten Hjorth-Jensen., *First principle calculations of quantum dot systems*, Journal of Chemical Physics, 147:164109 (2017).

27. Morten Hjorth-Jensen, *Scattering Experiments Tease Out the Strong Force*, *Physics*, 10:72 (2017).

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