

Publications

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Publications, books and refereed scientific articles

Forthcoming Books:

1. Morten Hjorth-Jensen, **Computational Physics, an introduction**, to be published by IOP in 2016
2. Morten Hjorth-Jensen, **Computational Physics, an advanced course**, to be published by IOP in 2016
3. Morten Hjorth-Jensen, **Nuclear many-body physics, a computational perspective**, in preparation for Taylor Francis
4. M. Hjorth-Jensen, Maria Paola Lambardo, and Ubirajara Van Kolck (editors), **Computational Nuclear Physics-Bridging the scales, from quarks to neutron stars**, to be published in Lectures Notes in Physics by Springer in 2016

Planned texts for 2017 and later

To be added

Publications in journals with a referee system:

1. Erich W. Ormand, Alex B. Brown and Morten Hjorth-Jensen, *First principles calculations for coefficients of the isobaric mass multiplet equation in the fp shell*, in preparation for *Physical Review C*, 2016.
2. Justin Lietz, Sam Novario, Gustav Jansen, Gaute Hagen, and Morten Hjorth-Jensen, *High-performance computing and infinite nuclear matter*, *Lecture Notes in Physics*, in press, 2016.

3. Fei Yuan, Jørgen Høgberget, Titus Morris, Sam Novario, Nathan Parzuchowski, Sarah Reimann, Scott K. Bogner and Morten Hjorth-Jensen, *First principle calculations of quantum dot systems*, in preparation for Journal of Chemical Physics, 2016.
4. G. Hagen, M. Hjorth-Jensen, G. R. Jansen, T. Papenbrock, *Emergent properties of nuclei from ab initio coupled-cluster calculations*, *Physica Scripta*, in press (2016).
5. Naofumi Tsunoda, Takaharu Otsuka, Noritaka Shimizu, Morten Hjorth-Jensen, Kazuo Takayanagi, Toshio Suzuki, *Exotic neutron-rich medium-mass nuclei with realistic nuclear forces*, *Physical Review C*, in press
6. G. Hagen, A. Ekstrom, C. Forssen , G. R. Jansen, W. Nazarewicz, T. Papenbrock, K. A. Wendt, S. Bacca, N. Barnea, B. Carlsson, C. Drischler, K. Hebeler, M. Hjorth-Jensen, M. Miorelli, G. Orlandini, A. Schwenk, and J. Simonis, *Charge, neutron, and weak size of the atomic nucleus*, *Nature Physics*, 12:186–190 (2016).
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8. A. Ekstrom, B. D. Carlsson, K. A. Wendt, C. Forssén, M. Hjorth-Jensen, R. Machleidt, S. M. Wild, *Statistical uncertainties of a chiral interaction at next-to-next-to leading order*, *Journal of Physics G*, 42:034003 (2015).
9. A. B. Balantekin, J. Carlson, D. J. Dean, G. M. Fuller, R. J. Furnstahl, M. Hjorth-Jensen, R. V. F. Janssens, Bao-An Li, W. Nazarewicz, F. M. Nunes, W. E. Ormand, S. Reddy, B. M. Sherrill , *Nuclear Theory and Science of the Facility for Rare Isotope Beams*, *Modern Physics Letters A*, 29:1430010 (2014).
10. Zs. Vajta, M. Stanoi, D. Sohler, G. R. Jansen, F. Azaiez, Zs. Dombrádi, O. Sorlin, B. A. Brown, M. Bellegruic, C. Borcea, C. Bourgeois, Z. Dlouhy, Z. Elekes, Zs. Fülöp, S. Grévy, D. Guillemaud-Mueller, G. Hagen, M. Hjorth-Jensen, F. Ibrahim, A. Kerek, A. Krasznahorkay, M. Lewitowicz, S. M. Lukyanov, S. Mandal, P. Mayet, J. Mrázek, F. Negoita, Yu.-E. Penionzhkevich, Zs. Podolyák, P. Roussel-Chomaz, M. G. Saint-Laurent, H. Savajols, G. Sletten, J. Timár, C. Timis, and A. Yamamoto, **Excited states in the neutron-rich nucleus ^{25}F* , *Physical Review C*, 89:054323 (2014).
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Contributions to Conference and Workshop Proceedings (refereed and non-refereed). TBA

Talks and seminars at workshops, conferences and institute colloquia. TBA

Organization of workshops, schools and advanced courses. TBA

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