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Quantum Many-Body Dynamics in Physics, Chemistry, and Mathematics

Guest Editors:

Prof. Dr. Ofir E. Alon

1. Department of Mathematics,
University of Haifa, Haifa
3498838, Israel
2. Haifa Research Center for
Theoretical Physics and
Astrophysics, University of Haifa,
Haifa 3498838, Israel

Dr. Axel U. J. Lode

Institute of Physics, Albert-
Ludwig University of Freiburg,
Hermann-Herder-Strasse 3,
79104 Freiburg, Germany

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Message from the Guest Editors

The Schrödinger equation is central to quantum mechanics and a cornerstone for the description of many fascinating phenomena in AMO, chemical, condensed-matter, and nuclear physics. Quantum many-body dynamics attract an enormous amount of interest in physics, chemistry, and mathematics alike.

The purpose of this Special Issue is to amalgamate contributions from researchers actively working on solutions, applications, and theoretical methodologies for the time-dependent Schrödinger equation for few- and many-particle systems.

We kindly invite you to contribute manuscripts about the theories, models, or methods themselves or, alternatively, their applications, e.g., to quantum correlations and fluctuations in ultracold atoms and Bose–Einstein condensates or correlated electron-dynamics triggered by light–matter interactions.



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Special Issue



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Editor-in-Chief

Prof. Dr. Kevin H. Knuth

Department of Physics, University
at Albany, 1400 Washington
Avenue, Albany, NY 12222, USA

Message from the Editor-in-Chief

The concept of entropy is traditionally a quantity in physics that has to do with temperature. However, it is now clear that entropy is deeply related to information theory and the process of inference. As such, entropic techniques have found broad application in the sciences.

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Entropy Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

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