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Quantum Chaos and Complexity

Guest Editors:

Prof. Dr. Olimpia Lombardi

Dr. Ignacio Gómez

Dr. Federico Holik

Dr. Sebastian Fortin

Deadline for manuscript
submissions:

closed (15 September 2019)

Message from the Guest Editors

Dear Colleagues,

The research on quantum chaos is usually defined as the study of the connection between quantum mechanics and classical chaotic behavior, in order to understand how a well-defined characterization of the stationary and dynamical aspects of classical chaos emerges.

However, research on quantum chaos has certainly extended its scope during recent decades, due to the increasing discovery of connections with other disciplines in physics. It is nowadays an active field of research that has become of fundamental importance in the study of the properties, dynamics and control of complex quantum systems, and has found applications in a vast range of phenomena: nonlinear quantum dynamics, quantum complex networks, chaotic scattering in open systems, phase transitions in mixed quantum dynamics, Anderson localization, atoms in strong fields, etc.

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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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Contact Us

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

Tel: +41 61 683 77 34
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