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Information Measures in Quantum Systems

Guest Editor:

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Message from the Guest Editor

Discreteand continuous-variable entropies and correlation information measures are used to examine and quantify delocalization and statistical dependencies in density-based analyses of quantum systems. In this approach, uncertainty and non-separability are key concepts for the understanding of behavior. Applications complexity, uncertainty, include and correlation measurements in atomic and molecular systems, quantum models. confined systems, among others. The development and study of entropies pertaining to multivariate distributions and higher-order correlation measures are also relevant in explorations of many-particle systems. The utilization of these tools in machine learning and applications to quantum science is of current interest. The Special Issue aims to collect related works.



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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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