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Quantum Computation and Information: Multi-Particle Aspects

Guest Editors:

Prof. Dr. Demosthenes Ellinas

Prof. Dr. Giorgio Kaniadakis

Prof. Dr. Jiannis Pachos

Dr. Antonio M. Scarfone

Deadline for manuscript
submissions:

closed (30 June 2015)

Message from the Guest Editors

Dear Colleagues,

This Special Issue mainly focuses on state-of-the-art advancements concerning multi-particles. These advancements are emerging in various research directions within the field of Quantum Computation and Information. In particular, the Issue will target works on research topics that blend multi-particle physical and mathematical modelling with techniques and concepts from quantum statistical mechanics. Within this framework, the problems addressed specifically concern various kinds of quantum computational and informational multi-particle algorithms and related matters, such as performance and design, as well as quantum walks, topological quantum computing, and multi-particle entanglement.

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Guest Editors



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Special Issue



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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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