

Special Issue

Quantum Entanglement

Message from the Guest Editors

Quantum entanglement and, more in general, quantum correlations, represent a characteristic trait of quantum mechanics. In the recent years, quantum entanglement and its correlations have become a formidable tool for overcoming the classical limits in several fields, ranging from calculus and communication, to imaging and metrology. We can quantify quantum entanglement and correlations in different ways. Some of these measures are hierarchically related each other. There have also been extensive applications of these measures to many fields, ranging from quantum optics to atomic and molecular physics. This Special Issue hopes to present both theoretical and experimental works related to quantum entanglement and correlations. The welcome theoretical and experimental papers on all aspects of research on quantum correlations, ranging from purely abstract matter to commercial applications. Topics of interest include, but are not limited, to quantum technologies (including quantum information, quantum communication, quantum metrology and sensing, quantum imaging, and so forth), foundations of quantum mechanics, and new measures and applications of quantum correlations.

Guest Editors

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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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Editor-in-Chief

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