

Special Issue

The Importance of Being Symmetrical

Message from the Guest Editors

This Special Issue is conceived both as a place to discuss about “Quantum Symmetries” in their philosophical and foundational aspects, and in the rich panorama of their applications.

- The role of symmetry in physics: historical and philosophical aspects
- Local and global symmetries
- Continuous and discrete symmetries
- Lorentz and de Sitter group
- Unitary group in QFT
- CPT symmetry in particles physics and cosmology
- PT symmetry, dissipative systems, and quantum computing
- Renormalization group
- Dynamical symmetries and chaotic behavior in physical systems

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About the Journal

Message from the Editor-in-Chief

Symmetry is ultimately the most important concept in natural sciences. It is not surprising then that very basic and fundamental research achievements are related to symmetry. For instance, the Nobel Prize in Physics 1979 (Glashow, Salam, Weinberg) was received for a unified symmetry description of electromagnetic and weak interactions, while the Nobel Prize in Physics 2008 (Nambu, Kobayashi, Maskawa) was received for the discovery of the mechanism of spontaneous breaking of symmetry, including CP symmetry. Our journal is named *Symmetry* and it manifests its fundamental role in nature.

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