

Special Issue

Symmetry Methods and Applications in Quantum Optics and Quantum Information

Message from the Guest Editors

- Symmetry principles are fundamental to quantum science, shaping quantum states and governing entanglement and coherence. They reveal conservation laws, classify correlations, optimize state preparation, and protect quantum information, making them essential in both theory and experiment.
- This Special Issue explores symmetry-driven phenomena across quantum systems. Topics include coherence and correlation quantification in magnomechanical, optomechanical, and qubit platforms; magnomechanically induced transparency; photon-magnon-phonon blockades; representation theory; thermodynamics; quantum metrology; quantum geometry; and teleportation.
- We welcome submissions on using symmetry to design novel quantum protocols, uncover new entanglement forms, or deepen understanding of quantum resources. Contributions from researchers in quantum optics, quantum information, condensed matter, and related fields are encouraged.

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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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