

Special Issue

Symmetry and Symmetry Breaking in Quantum Mechanics

Message from the Guest Editor

There is no doubt that symmetry plays one of the most important roles in physics. Symmetry breaking is also a very interesting and essential phenomenon in both condensed matter physics and high-energy physics. The recently-discovered Higgs boson is the most famous consequence of symmetry breaking. Things got even more interesting lately with the proposal of hidden order that could arise from some sort of hidden symmetry breaking, as proposed for the explanation of the pseudogap state of the high- T_C cuprate materials. Additionally, the role of symmetry in topological phases of matter has recently gained a tremendous importance with the discovery of topological insulators for example. This Special Issue welcomes manuscripts from all areas of quantum physics where symmetry and/or symmetry breaking occur.

Guest Editor

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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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