

Special Issue

Supersymmetry in Particle Physics

Message from the Guest Editor

Though the standard model provides an elegant description of particle contents of the matter, it suffers from the hierarchy problem. Furthermore, the cosmological observations strongly suggest that dark matters and dark energy exist, implying new physics beyond the standard model exist. One of the best candidates for the new physics is the supersymmetry theory which can solve the hierarchy problem, maintain gauge coupling unification, and provide a suitable dark matter candidate. However, the experimental search for supersymmetric models still remains elusive. Thus, a profound study on the phenomenology of supersymmetry theory is essential in order to discover more about new physics. Other applications of supersymmetry, such as supersymmetric quantum mechanics and mathematical studies of supersymmetry, are also encouraged in this Special Issue.

Guest Editor

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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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