



symmetry

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High Energy Physics

Guest Editor:

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Message from the Guest Editor

Symmetry (as well as symmetry breaking) plays an important role in particle physics to understand the synthesis of the subatomic particles and the forces that govern them, with elegance that has far-reaching implications. In general, symmetries place constraints about the properties of the subatomic particles and the interactions between them. On the other hand, the consequence of broken symmetries provide an explanation how the strong, weak, and electromagnetic forces arise that dictate the nature of their interactions. Extensions of symmetry to supersymmetry (SUSY) have made theoretical advancements to the Standard Model. In this Special Issue of Symmetry we will focus on the applications and use of symmetry (including broken symmetry) and supersymmetry (SUSY) in field of High Energy Physics in topics that are both within the Standard Model (SM) and Beyond the Standard Model (BSM). Papers in both theoretical and experimental High Energy Physics will be accepted.



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Special Issue



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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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