# Special Issue

## High Energy Physics

### 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.

### Guest Editor

Dr. Akhtar Mahmood
Bellarmine University

### Deadline for manuscript submissions

closed (30 June 2019)

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*Symmetry*
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
symmetry@mdpi.com

mdpi.com/journal/symmetry

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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.

## Editor-in-Chief

Prof. Dr. Sergei Odintsov
1. ICREA, 08010 Barcelona, Spain
2. Institute of Space Sciences (IEEC-CSIC), C. Can Magrans s/n, 08193 Barcelona, Spain

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