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Symmetry in Nuclear, Elementary Particle and High-Energy Physics

Guest Editor:

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Deadline for manuscript submissions:
closed (31 January 2022)

Message from the Guest Editor

Dear Colleagues,

Symmetries in the physics of elementary particles have started to play an increasingly important role in recent years, including in identifying resonances and in evaluating experimental data themselves. This is because understanding the resonance spectrum, both meson and baryon, is crucial in testing the Standard Model. It is about documenting the spectrum of “classic” hadrons (two or three quark systems) and looking for new so-called exotic states, As the experimental signal from exotic states often occurring close to the classical ones is difficult to detect, errors in the existing experimental data and their frequent ambiguities prevent the detection of new states. The task of the present Special Edition is to draw the attention of the entire community of physicists to the role of symmetry in both the analysis of amplitudes and in the work on the obtained experimental data in all currently working and planned laboratories.

Feel free to submit applications (scientific and review articles) covering a wide range of topics in the field of symmetry in the interactions of elementary particles.

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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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