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Symmetry in Plasma Physics and Thermonuclear Fusion

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

After Emmy Noether's deep insight, symmetry has been one of the most basic and prolific concepts in the development of physics in the last century. The conservation properties associated with symmetries are routinely used in plasma physics and thermonuclear controlled fusion, which allows for quite some theoretical simplifications and the design and operation of experimental fusion devices with the desired properties. However, perfect symmetry is rarely found, and doubts arise about the validity of these approaches, and about whether it is possible to find theoretical treatments for quasi-symmetric conditions that aid in the design of experimental confining devices that can provide our society with a safe, clean, abundant, efficient, and reliable energy source for the generations to come.

Prof. Dr. Victor Tribaldos
Guest Editor

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Editor-in-Chief

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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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