



Magnetohydrodynamics and Symmetry: Theory, Methods, and Applications

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Message from the Guest Editors

Dear Colleagues,

This Special Issue is designated for the researchers to contribute any recent research papers as well as review articles on the topic of “Magnetohydrodynamics and Symmetry: Theory, Methods, and Applications”. The work may highlight the advancement in (1) mathematical methods through theoretical derivation, numerical analysis/simulation, or (2) experimental studies. Besides, the work may also be subjected to the new contribution related to the symmetrical behavior and Lie symmetry of the proposed differential equations. In addition, magnetohydrodynamics (MHD), which is also called hydromagnetic or magneto-fluid dynamics, is one of the fascinating subject matter in the fluid mechanic area. It highlights the study of the magnetic properties and behavior of electrically conducting fluids like liquid metals, electrolytes, plasmas and salt water. We hope that this Special Issue can benefit and fascinate the scientific community researchers and general readers regarding the up-to-date findings of magnetohydrodynamics and symmetry for industrial and technological development.





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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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