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Relativistic Hydrodynamics and Symmetry: Theory, Methods and Applications

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Message from the Guest Editor

Dear Colleagues,

The open access journal *Symmetry* has launched a new Special Issue entitled "Relativistic Hydrodynamics and Symmetry: Theory, Methods and Applications". It will cover all aspects of the physics of relativistic hydrodynamics and serve as a useful reference for researchers and students on the current problems in this area of research.

Relativistic hydrodynamics is an effective framework for the long-wavelength and low-frequency description of matter under a wide variety of conditions, ranging from nuclear collisions in heavy-ion experiments to the large-scale structure of galaxies. It has been successfully applied in recent years to describe the elementary matter in heavy-ion experiments, including the formation of quark-gluon plasma at the RHIC and LHC. Another important area of research where tremendous progress has been achieved is the physics of compact stars, with the magneto-hydrodynamics description of the binary neutron star mergers being one such example.

We cordially invite you, as an expert in this field, to contribute an original article or balanced review to this Special Issue...



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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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