Special Issue

The Equation of State of Compact Stars

Message from the Guest Editor

The determination of the equation of state of compact stars is a modern, active field of research. Great development has been achieved by the recent multimessenger astronomy observations as well as by modern laboratory experiments. The necessary data include, for instance, detected gravitational radiation from merging neutron stars, radio, and X-ray emissions that are complemented by measurements of nuclear quantities in heavy ion collisions, nucleon scattering, and nuclear masses. Nevertheless, there are many topics related to the composition of compact stars that urgently require detailed examination. We expect more observational and empirical data in the near future; thus, an account of the state of the art of this field is in order. As the , I would like to call for article contributions addressing the physics of compact star matter and related phenomena.

Guest Editor

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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.

Editor-in-Chief

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