



symmetry



an Open Access Journal by MDPI

The Symmetry of QCD Matter and Functional QCD Approaches

Guest Editors:

Dr. Fei Gao

School of Physics, Beijing
Institute of Technology, Beijing,
China

Prof. Dr. Yu-xin Liu

School of Physics, Peking
University, Beijing, China

Deadline for manuscript
submissions:

30 September 2024

Message from the Guest Editors

Dear Colleagues,

This Special Issue is aimed to explore the phase structure of QCD matter and also attempt to find the explanation of its symmetry pattern and the underlying mechanism. The work may include (but is not limited to) the phase structure of QCD at finite temperature and also other conditions, the thermodynamic properties and also the global properties such as the spin structure and transport properties of QCD matter, the exotic and possible new phases such as the soliton phases, quarkyonic phase, and color superconductor phase, and the related symmetry and the properties.



mdpi.com/si/170549

Special Issue



an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Sergei D. Odintsov

1. Institutió Catalana de Recerca
i Estudis Avançats (ICREA),
Passeig Luis Companys, 23,
08010 Barcelona, Spain
2. Institute of Space Sciences
(ICE-CSIC), C. Can Magrans s/n,
08193 Barcelona, Spain

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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), CAPlus / SciFinder, Inspec, Astrophysics Data System, and other databases.

Journal Rank: JCR - Q2 (*Multidisciplinary Sciences*) / CiteScore - Q1 (*General Mathematics*); Q1 (*Physics and Astronomy*); Q1 (*Computer Science*)

Contact Us

Symmetry Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/symmetry
symmetry@mdpi.com
X@Symmetry_MDPI