symmetry

an Open Access Journal by MDPI

IMPACT FACTOR 2.7

CITESCORE 4.9

Symmetry on Multiboson Physics

Guest Editor:

Dr. Qiang Li
Department of Physics and State Key Laboratory of Nuclear Physics and Technology, Peking University, Beijing 100871, China

Deadline for manuscript submissions:
31 December 2023

Message from the Guest Editor

Dear Colleagues,

In the standard model of fundamental particles, spontaneous symmetry breaking happens when the Higgs mechanism provides some elementary particles with mass, such as the W- and Z-gauge bosons that transport the weak force. Meanwhile, other particles, such as the photon and gluon, that carry the force of electromagnetism and strong interactions, remain massless.

These bosons (especially the W, Z, photon, and Higgs bosons) can be exploited as novel probes either for standard model precision tests or new physics searches. Indeed, with the high energy and luminosity of the LHC, it has become possible to study multiboson-related topics, including double- or triple-gauge boson productions, vector boson fusion or scattering, and new physics searches in detail, either indirectly through effective field theory or directly for resonance decay into multiple bosons with high momenta...

symmetry

IMPACT FACTOR 2.7

CITESCORE 4.9

an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Sergei D. Odintsov
ICREA, P. Lluis Companyas 23, 08010 Barcelona and Institute of Space Sciences (IEEC-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
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

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

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