Special Issue

Advances in Spin Physics

Message from the Guest Editor

In recent years, there has been a steady progress in research activities related to spin phenomena in high energy physics and their theoretical interpretations. This Special Issue is devoted to the various aspects of studies related to the spin degrees of freedom and their manifestation in the structure of particles and in their interaction dynamics. Research on spin phenomena has now attracted a significant following of experimental and theoretical physicists, and therefore, both experimental and theoretical aspects of spin studies will be discussed in this issue, making it interesting for a wide audience in the high-energy physics community. The already obtained experimental results along with their interpretations and future prospects of spin studies will be treated. Emphasis under these discussions will be given to the spin-dependent measurements in further testing of QCD, the Standard Model, spin structute of hadrons studies, and role of spin in the nonperturbative regime of QCD with an impact on the possible confinement problem solution and impartance of spin for the spontaneous chiral symmetry-breaking phenomena.

Guest Editor

Prof. Dr. Sergey Troshin

Institute for High Energy Physics, 142280 Protvino, Moscow Oblast, Russia

Deadline for manuscript submissions

closed (28 February 2021)

Symmetry

an Open Access Journal by MDPI

Impact Factor 2.2
CiteScore 5.3

mdpi.com/si/42338

Symmetry
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
symmetry@mdpi.com

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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

Prof. Dr. Sergei Odintsov
1. ICREA, 08010 Barcelona, Spain
2. Institute of Space Sciences (IEEC-CSIC), C. Can Magrans s/n, 08193 Barcelona, Spain

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