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Ternary and Z3-Graded Algebras in Physics

Guest Editor:

Prof. Dr. Richard Kerner

Laboratory of Theoretical Physics
of Condensed Matter, Sorbonne-
University and URA CNRS 7600,
France

Deadline for manuscript
submissions:

closed (15 May 2022)

Message from the Guest Editor

Dear Colleagues,

In past decades, Z₃-graded algebraical structures have been the object of raising interest, also in view of their possible applications in physics. Numerous generalizations of Z₂-graded structures have been proposed and investigated, e.g., Z₃-graded exterior differentials and Grassmann algebras, ternary Clifford algebras, Z₃-generalizations of supersymmetry, and Z₃-graded generalization of spin and color Dirac equation. These topics will be the subject of articles presented in the Special Issue, combining articles of mathematical and physical character.



mdpi.com/si/60195

Special Issue



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Editor-in-Chief

Prof. Dr. Sergei D. Odintsov

1. Institució 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.

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Contact Us

Symmetry Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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symmetry@mdpi.com
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