



Geometry and Symmetry in Quantum Field Theory

Guest Editors:

Prof. Dr. Annalisa Marzuoli

1. Dipartimento di Matematica 'F Casorati', Università di Pavia, Pavia, Italy

2. Istituto Nazionale di Fisica Nucleare, Sezione di Pavia, Bari, Italy

Prof. Dr. Song He

Center for Theoretical Physics and College of Physics, Jilin University, Changchun 130022, China

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Message from the Guest Editors

The focal point of this Special Issue is Topological QFT, the Chern-Simons-Witten model and its relation with 3D quantum gravity as a prototype and a shared source of inspiration for the contributions.

However, rather than focusing sharply on a few topics, we encourage contributors to look for 'windows' into, and across, a variety of models, approaches and methods that includes: (gauge) QFT on non-commutative spaces and spacetimes; induced boundary models; q-deformed symmetries and supersymmetry; canonical quantization schemes in QFT; BV and BFV formalisms; discretized models; cosmological and black hole solutions; topological invariants of knots and 3-manifolds.





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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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Symmetry Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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