Special Issue

Recent Advances in Mathematical Physics with Applications in Quantum Theory

Message from the Guest Editors

The development of quantum physics throughout the twentieth century was one of the most important advances in human history, not only in technological innovation but also in our understanding of reality. We now know that quantum fields are the fundamental entities that fill the entire universe, responsible for all interactions observed in high-energy experiments. The mathematics employed in physics has also evolved over recent decades to align with the latest physical theories. As a result, it is now common to advanced mathematical structures such as are bundles, groupoids, generalized cohomology and algebraic topology methods. Our understanding of quantum theories has grown hand-in-hand with the adoption of more elegant and structural mathematical frameworks. The main purpose of this Special Issue of *Axioms* is to gather recent findings in mathematical physics with applications in quantum theory, including any of the aforementioned topics. We cordially invite you to present your recent contributions to this Special Issue.

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Message from the Editor-in-Chief

Axioms is dedicated to the foundations (structure and axiomatic basis, in particular) of mathematical theories, not only from a crisp or strictly classical sense, but also from a fuzzy and generalized sense. This includes the more innovative current scientific trends, devoted to discover and solve new challenging problems. The prime goal of *Axioms* is to publish first-class, original research articles under an open access policy with minimal fees for the authors. We would be pleased to welcome you as one of our authors.

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