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Symmetry in Quantum Calculus

Guest Editor:

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Deadline for manuscript submissions:
closed (31 July 2023)

Message from the Guest Editor

Dear Colleagues,

Quantum calculus (and calculus), also known as calculus without limits, has exploded in the field of mathematical analysis in recent years in both theoretical and practical contexts. In essence, quantum calculus theory is a mathematical analysis tool that unifies and generalizes the classical notions of differentiation and integration when used to study integrals and derivatives without limits. These quantum derivatives and integrals, which were previously only employed in strictly mathematical contexts, have now been shown to be powerful tools for modeling problems in a variety of scientific fields. As a result, quantum calculus theory's application has become a focus of international academic research. Articles on quantum calculus, as well as contributions linked to the symmetry approach to symmetric functions, are also of relevance.

We also invite articles on quantum calculus and its applications in a variety of domains, such as quantum integral inequalities, quantum special functions, quantum differential and integral equations, and so on.

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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.

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