

Commutative Ring Theory, Commutative Rings and Symmetry

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

Quantum mechanics methods provide solutions of some classical problems of noncommutative algebra and algebraic geometry. For example, an equivalence between famous Jacobian and Dixmier conjectures was established via an anti-quantization procedure, with infinitely large primes playing the role of a plank constant. The Kontsevich conjecture about canonical isomorphism between symmetry groups: polynomial symplectomorphisms and automorphisms of Weil algebra depicts the equivariance of quantization procedure.

This view point provides relation between quantization and symmetry is certainly one of many, the variety of which can provide some fruitful discussion.





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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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