



Measurements in Quantum Mechanics

Guest Editor:

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Message from the Guest Editor

The problem of measurements in quantum mechanics is as old as the modern concept of quantum mechanics. These questions are a basic part of the problem of interpretation in quantum mechanics. A discussion on how to interpret the results of measurements is very old: Here, one should mention the Bohr–Einstein debates, out of which both the Einstein–Podolsky–Rosen (EPR) and Schrödinger’s cat paradoxes resulted. In general, the measurement problem is not simply an internal interpretative problem of quantum mechanics but also an inspiration for theoretical and experimental research and philosophical debate. The range of topics for research is very broad: the von Neumann model of ideal measurements, quantum models of the measurement process, single measurements, many successive measurements, uncertainty relations and others.

This Special Issue is devoted to the topics related to the problem of measurement in quantum mechanics. I would like to invite all colleagues to submit their original research results, reviews, and short communication articles to this issue. Both theoretical and experimental proposals are welcome.





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Editor-in-Chief

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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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