

Special Issue

The Close Connection between Economics and Quantum Theory: A Topological Exploration

Message from the Guest Editors

This Special Issue will collect research that is being performed around applying elements of the formalism of quantum mechanics to the social sciences. There will be a particular focus on the key tenet(s) that rationalize(s) why the quantum formalism can be used in economics (in social choice and decision-making). As a central objective, this Special Issue will rigorously explore the foundational connections between economics and quantum theory.

Guest Editors

Prof. Dr. Graciela Chichilnisky

Prof. Dr. Peter M. Eisenberger

Prof. Dr. Emmanuel Haven

Prof. Dr. Andrei Khrennikov

Deadline for manuscript submissions

closed (31 July 2021)



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About the Journal

Message from the Editor-in-Chief

We get more and more evidence that quantum theory is the correct description of nature. It was born a century ago by explaining a few paradoxical results that could not be understood in the framework of classical physics. Today, quantum physics leads technological revolution in metrology, communication, computation, and the design of novel materials. Still it needs more solid foundations, and we need to develop a deeper understanding of how it can be used for new applications.

Quantum Reports is an online, open-access journal providing an advanced forum for clarifying foundations of quantum theory and developing its applications in all fields of physics and technology. *Quantum Reports* is inviting innovative and insightful contributions from the growing community of researchers of quantum science.

Editor-in-Chief

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 18.5 days after submission; acceptance to publication is undertaken in 2.9 days (median values for papers published in this journal in the first half of 2025).