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Quantum Reports

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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

Prof. Dr. Lev Vaidman

Aims

Quantum Reports (ISSN 2624-960X) is an international, peer-reviewed, open access journal of quantum science. It publishes original research articles and review articles in all quantum subfields, from basic quantum theory to a broad array of applications.

Scope

- Foundations of Quantum Mechanics
- Quantum Information: Communication, Cryptography, and Computation
- Quantum Optics and Metrology
- Quantum Materials, Quantum Chemistry, and Biology
- Quantum Thermodynamics
- Quantum Engineering, Quantum Electronics, and Quantum Devices
- Fundamental Questions of Quantum Gravity, Cosmology, and Field Theory

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Rapid Publication

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)

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