## **Special Issue**

# A Themed Issue in Honor of Professor Viktor Dodonov-55 Years in Quantum Physics

## Message from the Guest Editors

Celebrating the 55 years journey of Viktor Dodonov through the Quantum World, we invite all colleagues to submit papers related to the following large areas where Viktor made significant contributions:

- Dynamical Casimir Effect and quantum systems with moving (nonstationary) boundaries;
- Time-dependent quantum invariants and their applications;
- Uncertainty relations, their generalizations, and applications;
- "Nonclassical" states in quantum optics, quantum information, and other areas;
- Quantum particles in magnetic fields;
- Motion (evolution) of quantum packets;
- Dynamics of closed and open quantum systems;
- Master equations and their solutions;
- Adiabatic and fast dynamics;
- Jaynes-Cummings model, its generalizations and applications;
- Wigner function and quantum dynamics in phase space:
- Nonlinear generalizations of the Schroedinger equation:
- Decoherence, damping, relaxation, and thermalization in quantum systems;
- Quantum systems with time-dependent parameters.

### **Guest Editors**

Prof. Dr. Andrei Klimov

Departamento de Física, Universidad de Guadalajara, Guadalajara 44420, Jalisco, Mexico

Prof. Dr. Luis L. Sánchez-Soto

Departamento de Óptica, Facultad de Fisica, Universidad Complutense, 28040 Madrid, Spain

## Deadline for manuscript submissions

31 December 2025



# **Physics**

an Open Access Journal by MDPI

Impact Factor 1.8 CiteScore 3.1



mdpi.com/si/216034

Physics
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
physics@mdpi.com

mdpi.com/journal/physics





# **Physics**

an Open Access Journal by MDPI

Impact Factor 1.8 CiteScore 3.1



## **About the Journal**

## Message from the Editor-in-Chief

Physics plays a crucial role in our understanding of the world and is of huge significance for the development of other sciences. This ensures that physics is always attracting heightened attention and is at the center of human interest. Physics is devoted to all aspects of physics and looks into news and progress of modern physics, seeking new horizons and future discoveries. The journal aims to provide an advanced forum for discussion of contemporary problems in physics and its development.

## Editor-in-Chief

Prof. Dr. Edward Sarkisyan-Grinbaum

- 1. Experimental Physics Department, CERN, 1211 Geneva 23, Switzerland
- 2. Department of Physics, The University of Texas at Arlington, Arlington, TX 76019, USA

#### **Author Benefits**

## **Open Access:**

free for readers, with article processing charges (APC) paid by authors or their institutions.

## **High Visibility:**

indexed within Scopus, ESCI (Web of Science), Inspec, INSPIRE, Astrophysics Data System, and other databases.

## **Rapid Publication:**

manuscripts are peer-reviewed and a first decision is provided to authors approximately 25.9 days after submission; acceptance to publication is undertaken in 20.7 days (median values for papers published in this journal in the first half of 2025).

