

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.

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