

## Physica Scripta

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# Editorial Board

### Editorial Board

[S I Abarzhi](#), The University of Western Australia, Australia

**Research:** Dynamics of plasmas, fluids, materials; hydrodynamic instabilities, turbulence and mixing; nonlinear dynamical systems.

[G Brodin](#), Umeå University, Sweden

**Research:** Plasma physics, nonlinear wave-propagation in plasmas, quantum plasmas.

[O Castanos](#), Universidad Nacional Autónoma de México, Mexico

**Research:** Quantum optics, quantum mechanics, interaction between matter and radiation, quantum phase transitions, models of nuclear and molecular physics.

[G Chen](#), Texas A&M University, USA

**Research:** Nonlinear/soliton physics, control theory, computational mechanics, partial differential equations, chaotic dynamics, numerical solutions by boundary elements, quantum computation.

[M T Cidade](#), Lisbon New University, Portugal

**Research:** Materials science, condensed matter physics, polymers, liquid crystals and polymer based composites, physical-chemical characterization, rheology of complex fluids (including rheo-optics and electrorheology).

[M B Davies](#), Lund Observatory, Sweden

**Research:** Astrophysics, cosmology, hydrodynamical computer simulations in astrophysics.

[T Dittrich](#), Universidad Nacional 'Manuel Ancizar', Colombia

**Research:** Classical nonlinear phenomena, complex quantum dynamics, semiclassical methods, quantum information, philosophy of physics.

[J Dudek](#), University of Strasbourg and IPHC/CNRS, France

**Research:** Nuclear theory, nuclear structure models, nuclear excited states, effective forces in nuclei, Hartree-Fock and Hartree-Fock-Bogoliubov approaches, random phase approximation and related methods.

[T Dumitrică](#), University of Minnesota, USA

**Research:** Electronic, optical, structural, and thermal properties of materials; carbon nanotubes and other nano-materials.

[B M Garraway](#), Sussex University, UK

**Research:** Quantum optics, decoherence, cavity QED, adiabatic processes, quantum information processing, Bose-Einstein condensation, molecular control, femtosecond processes, wave packet dynamics.

[G Goldoni](#), Modena and Reggio Emilia University, Italy

**Research:** Semiconductor nanostructures and devices, quantum dots, quantum wires, carbon nanotubes, graphene ribbons, excitonic complexes, electronic correlation and spin-orbit effects, optical and transport properties.

[J Javanainen](#), University of Connecticut, USA

**Research:** Theoretical Atomic, Molecular and Optical (AMO) physics and quantum optics—light in media, quantum degenerate gases, optical lattices, quantum measurements.

[S Jonsell](#), University of Stockholm, Sweden

**Research:** Bose-Einstein condensation, exotic atoms, few-body systems, antihydrogen.

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[M A Man'ko](#), Lebedev Physical Institute, Russia

**Research:** Quantum optics, quantum mechanics, quantum information, quantum electronics, nonlinear physics.

[K Mork](#), Norwegian University of Science and Technology, Norway

**Research:** Theoretical high energy physics, electroweak theory, transport theory, quantum mechanics.

[M Nunez-Regueiro](#), Institut Neel, CNRS, Grenoble

**Research:** Electronic and magnetic properties of solids, high temperature superconductors, fullerenes.

[S Ólafsson](#), University of Iceland, Iceland

**Research:** Thin film physics, surface physics, hydrogen in materials, defects, STM nanoscale imaging and processing.

[O K Pashaev](#), Izmir Institute of Technology, Turkey

**Research:** Integrable systems, nonlinear mathematical physics, hydrodynamics, quantum theory.

[H L Pécseli](#), University of Oslo, Norway

**Research:** Plasma physics, space physics, turbulence, waves, instabilities, fluid mechanics, marine biology, turbulent transport in the environment.

[C Petrache](#), Université Paris Sud, France

**Research:** Nuclear physics, nuclear structure and nuclear spectroscopy.

[J Räisänen](#), University of Helsinki, Finland

**Research:** Ion beam based materials physics using nuclear techniques, diffusion in solids, ion-matter interactions, charged particle induced defects in solids, nanostructure preparation by cluster deposition.

[T T Rantala](#), Tampere University of Technology, Finland

**Research:** Theoretical and computational materials physics, electronic structure theory, first-principles (ab initio) approaches to solids, surfaces and nanostructures, light-matter interaction, quantum Monte Carlo, path integrals, quantum chemistry.

[J J Rasmussen](#), Technical University of Denmark, Denmark

**Research:** Waves and instabilities in plasmas, nonlinear phenomena, solitons, waveparticle interactions, plasma simulations, models for fusion plasmas. turbulence and chaos.

[D Röhrich](#), University of Bergen, Norway

**Research:** Experimental nuclear physics—ultrarelativistic heavy ion collisions, nuclear collisions, detector physics (e.g. time projection chambers, calorimeters, data acquisition, trigger systems, digital microelectronics design, radiation effects), medical physics (PET, radiation therapy, dosimetry).

[B Sanguinetti](#), University of Geneva, Switzerland

**Research:** Quantum optics, quantum communication, metrology, detectors, macroscopic quantum systems and quantum biology, quantum radiometry and light measurement.

[P Sen](#), Harish-Chandra Research Institute, India

**Research:** Atomic clusters, two-dimensional electronic materials, electronic structure calculations.

[Y V Sereda](#), Indiana University Bloomington, USA

**Research:** Biological physics, disordered systems, condensed matter physics, mathematical physics.

[L Stenflo](#), Linköping University, Sweden

**Research:** Nonlinear wave coupling phenomena in plasmas, solitary waves in plasmas.

[H H Stroke](#), New York University, USA

**Research:** Experimental atomic, molecular, low temperature, and nuclear physics; astrophysics; optical spectroscopy.

[A M Wazwaz](#), St Xavier University, USA

**Research:** Solitons, kinks, Hirota's method, solitary waves theory, integrable equations.