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Zeitschrift für Physik

Zeitschrift
für Physik A

Atomic
Nuclei

ISSN 0340-2193 Title No. 218

Editor-in-Chief: H. A. Weidenmüller,
Heidelberg

Section A is devoted to experimental and theoretical studies of nuclear systems. This field of research is growing in importance and being extended to ever-higher energies as new and more powerful accelerators are brought into service. In this respect, contributions reporting research on nuclear reactions with very heavy ions, nuclear structure at the boundaries of stability, dense and highly excited nuclear matter (e.g., quarkgluon plasmas) are particularly welcome.

Zeitschrift
für Physik B

Condensed
Matter

ISSN 0722-3277 Title No. 257

Managing Editors: M. Campagna, Jülich;
H. Horner, Heidelberg

Section B covers the physics of condensed matter and general physics. In this section papers on the physical properties of crystalline, disordered, and amorphous solids, and on classical and quantum liquids will be published. Examples would be papers on superconductivity, phase transitions, surface effects, and studies of dynamic process performed with the help of photon, electron, or neutron scattering. Emphasis is also put on quantum optics and statistical physics, especially in the area of nonequilibrium processes and cooperative phenomena. Papers on molecular physics that relate to problems of condensed matter are also invited.

Zeitschrift
für Physik C

Particles
and Fields

ISSN 0170-9739 Title No. 288

Editor-in-Chief: G. Kramer, Hamburg

Zeitschrift für Physik C, Particles and Fields, is devoted to the experimental and theoretical investigations of elementary particles. In view of the steadily growing interplay of theory and experiment in this field, particular emphasis is given to a clear and complete presentation or research.

Fields of interest: Experimental and theoretical particle physics; structure of elementary particles; high energy processes; strong, electromagnetic and weak interactions; symmetry principles; quantum field theory; field theory on the lattice.

Atoms, Molecules
and Clusters

ISSN 0178-7683 Title No. 460

Editor-in-Chief: I. V. Hertel, Berlin

Modern research employs to an increasing extent similar techniques in these fields: laser spectroscopy, UV- and synchrotron-radiation experiments, multiphoton processes, etc., and the papers published in the new *Section D* will reflect this overlap. The focus will be on free atoms, molecules, and clusters and their properties and interactions as individual entities in gaseous, liquid, and solid environments. All aspects of atomic, molecular, and cluster structure, spectroscopy, interactions, dynamics, production, fragmentation, and ionization will be covered. Other topics to be included: heavy-ion atomic physics, muonic, pionic, and other exotic atoms; hyperfine interactions; electron and positron scattering; collisions in experiment and theory; structure and stability calculations; statistical and dynamic theories of inter- and intramolecular processes.

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