

Aims and scope of Reviews in EPJ A and EPJ C

Published online: 24 November 2006 – © Springer-Verlag / Società Italiana di Fisica 2006

The goal of the section Reviews of EPJ A and EPJ C is to provide timely reviews of major developments in our understanding of the physics of particles and nuclei. With the increasing interdependence of nuclear and particle physics and the growing relevance of aspects of astrophysics and cosmology, further understanding of the particles and nuclei arising in Nature now requires unprecedented breadth of knowledge in nuclear physics, particle physics and related fields. Hence, thorough, pedagogical review and synthesis of key developments is more important than ever before, and this series is devoted to reviewing the full range of theoretical and experimental advances in the physics of particles and nuclei. The reviews appearing in EPJ A and EPJ C will also be collected and published in book form in the series “Advances in the Physics of Particles and Nuclei”.

The scope includes all experimental and theoretical developments relevant to our understanding of the observable properties and phenomenology of particles and nuclei. It includes, but is not limited to, the following topics:

- Nuclear structure and nuclear reactions
 - Nuclear reactions and spectroscopy
 - Lepton and hadron probes
- Hadron structure and interactions
 - Spectroscopy
 - Parton and generalized parton distributions
 - Lepton and hadronic probes
- Matter at high density and temperature
 - Phases of QCD
 - Relativistic heavy ion collisions
 - Matter in neutron stars and supernovae
- Physics and parameters of the standard model
 - Neutrino masses and mixing
 - *B* and charm physics
- Physics beyond the standard model
 - Low energy searches
 - Collider searches
- Constraints on nuclear and particle physics from astrophysics and cosmology
 - Baryogenesis
 - Nucleosynthesis
 - Supernovae

- Aspects of theoretical physics
 - Nuclear many body theory
 - Effective field theory
 - Quantum field theory
 - Lattice field theory
 - Theories beyond the standard model

Reviews on timely topics will be solicited by the Editors. In addition, prospective authors are encouraged to correspond with the Editors to explore the possibility of the preparation of reviews. All articles will be refereed and, once they have been commissioned, will be subject to a deadline to ensure timeliness.

Heidelberg, November 2006

Thomas Walcher
Editor-in-Chief, EPJ A

Douglas H. Beck, Dieter Haidt, and John Negele
Editors of the Review Section

Jochen Bartels and Dieter Haidt
Editors-in-Chief, EPJ C