Special Issue

Dirac Equations and Quantum Mechanics – in Memory of Paul Adrien Maurice Dirac's 120th Birthday

Message from the Guest Editor

Relativistic quantum mechanics has been a gigantic breakthrough for physics since its inception more than a century ago. This theory constitutes a natural framework for studying the properties of physical systems in various branches of physics. The applications of these theories have led to great realizations, such as the use of the Dirac equation to build effective models to describe topological insulators, topological superconductors, pseudospin and spin symmetries, topological defects in gravitational theories and condensed matter, pseudoanalytic function theory, models with Lorentz symmetry violation, etc. This Special Issue of Symmetry - Dirac Equations and Quantum Mechanics - "In Memory of Paul Adrien Maurice Dirac's 120th Birthday" is devoted to recent advances in theoretical developments in Relativistic Quantum Mechanics and applications in all areas of physics. It is part of the global effort to provide a continuous supply of information to the research community. Original contributions, under various forms and presentations, are welcomed.

Guest Editor

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Message from the Editor-in-Chief

Symmetry is ultimately the most important concept in natural sciences. It is not surprising then that very basic and fundamental research achievements are related to symmetry. For instance, the Nobel Prize in Physics 1979 (Glashow, Salam, Weinberg) was received for a unified symmetry description of electromagnetic and weak interactions, while the Nobel Prize in Physics 2008 (Nambu, Kobayashi, Maskawa) was received for the discovery of the mechanism of spontaneous breaking of symmetry, including CP symmetry. Our journal is named *Symmetry* and it manifests its fundamental role in nature.

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