Special Issue

Super-Symmetry

Message from the Guest Editor

Supersymmetry is the symmetry between fermionic states and bosonic states. In 1973, J. Wess and B. Zumino presented an analytical 4-dimensional gauge theory that preserves supersymmetry. A comprehensive theoretical review of the supersymmetry of elementary particles is given in the book of P. Labelle (2010). At CERN, the CMS-ATLAS group and other groups study the violation of supersymmetry which can be attributed to couplings of the Higgs boson and fermions. At Jefferson laboratory, quark distribution functions in mesons and baryons are being studied. The propagation and scattering of phonetic waves in media is also well described by front form. The effects of noise are expected to be taken into account in the framework of supersymmetry. In this book we aim to present an aspect of supersymmetry biased by an Editor's interest, and we would be grateful if you sent your suggestions or references relevant to the above subjects to the editor.

Guest Editor

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Message from the Editor-in-Chief

The journal *Mathematics* publishes high-quality, refereed papers that treat both pure and applied mathematics. The journal highlights articles devoted to the mathematical treatment of questions arising in physics, chemistry, biology, statistics, finance, computer science, engineering and sociology, particularly those that stress analytical/algebraic aspects and novel problems and their solutions. One of the missions of the journal is to serve mathematicians and scientists through the prompt publication of significant advances in any branch of science and technology, and to provide a forum for the discussion of new scientific developments.

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