

Preface

The Third International Conference “Symmetry in Nonlinear Mathematical Physics” continued the series of the scientific meetings started in 1995 due to efforts of Professor Wilhelm Fushchych. And we believe that these series will be continued and consider such continuation as our duty with respect to the memory of our teacher. The conference was organized by the Institute of Mathematics of the National Academy of Sciences of Ukraine and M. Dragomanov National Pedagogical University. It was held in Kyiv, July 12–18, 1999.

The papers included into the Proceedings can be divided in two parts. The first part includes ones devoted to the topics which are traditional for our conferences, i.e., analysis of symmetries of nonlinear equations, symmetry reduction and construction of exact solutions of partial differential equations. In this part the classical Lie methods as well as the modern trends in symmetry analysis such as non-local, conditional, higher, super- and parasupersymmetries, are represented in more than 30 papers which are collected in the first volume.

The second volume includes papers devoted to the representation theory and applications of classical and deformed Lie algebras, super- and parasuperalgebras to some fundamental and applied problems of modern mathematical physics. It should be emphasized that such separation is rather conventional, since some papers can be related to both parts and some to neither of them. But we believe that all papers present a valuable contribution to the development of symmetry analysis of equations of mathematical physics.

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