

PREFACE

These Conference Proceedings contain written versions of most of the contributions presented at the Twelfth International Conference on Geometry, Integrability and Quantization. As usual, it took place at the Sts. Constantine and Elena resort on the Black Sea coast, this year from June 4–9, 2010. The Conference provided a setting for discussing recent developments in a wide variety of interesting topics in Differential Geometry, General Relativity, Quantum Theory and Integrable Systems such as Differential Geometry of Moving Surfaces, Geometry and Integrability of Dynamical Systems, Einstein Metrics, Loop Quantum Cosmology, Star Products and Star Exponentials, Integrable Hamiltonian Systems, Geometric Quantization, Multicomponent Soliton Equations, and Stress and Strains in Cell Membranes.

As a byproduct, the conference has provided the opportunity for participants coming from so many countries (Bulgaria, Czech Republic, France, Italy, Japan, Poland, Portugal, Romania, South Africa, Turkey and the USA) to meet and discuss topics in their respective research areas. The inclusion of the short lecture courses on Recursion Operators and Reductions of Integrable Equations on Symmetric Spaces, Differential Geometry of Moving Surfaces and its Relation to Solitons and Quasiclassical and Quantum Dynamics of Systems of Angular Momenta was highly appreciated due to the speakers effort to present ideas and methods in a lively and pedagogical way. We would like to thank all participants for their contributions to the Conference program and corresponding Proceedings. Special thanks go to Mariana Hadzhilazova for her effective assistance in the organization of the Conference and for her help during the preparation of these Proceedings. Many thanks go as well to the Bulgarian participants for their support, hospitality and friendliness, which allowed foreign participants to feel more at home. As a consequence, a joyful atmosphere was created at the Conference and found a maximal expression at the social dinner in which many participants demonstrated their dancing ability.

We are looking forward to the thirteenth International Conference on Geometry, Integrability and Quantization that will be held on June 3-8, 2011 at the same location. We hope that it will be as interesting and enjoyable as all of its twelve predecessors.

The Editors