

## P R E F A C E

This volume contains some brief lecture notes, reviews and original research contributions, which all were presented at the **6th Mathematical Physics Meeting: Summer School and Conference on Modern Mathematical Physics**, held in the Institute of Physics, Belgrade (Serbia), September 14–23, 2010 (<http://www.ipb.ac.rs/~mphys6/>). The programme of this meeting was mainly oriented towards some recent developments in string and quantum field theory, gravity and cosmology, and some mathematical methods of modern mathematical physics. We hope that articles presented here will be valuable literature not only for the participants of this meeting but also for many other PhD students and researchers in modern mathematical physics. We are grateful to all authors for writing their contributions for these proceedings.

The previous five meetings in this series of summer schools and conferences on modern mathematical physics were also held in Serbia: Sokobanja, 13–25 August 2001; Kopaonik, 1–12 September 2002; Zlatibor, 20–31 August 2004; Belgrade, 3–14 September 2006; and Belgrade, 6–17 July 2008. The corresponding proceedings of all these meetings were published by the Institute of Physics, Belgrade, and are available.

This sixth meeting was held in the Institute of Physics (Belgrade), which is at the nice bank of river Danube. We hope that all attending this meeting will recall it as a useful and pleasant event, and wish to participate in the future meetings.

We wish to thank all lecturers and other speakers for their interesting and valuable talks. We also thank all participants for their active participation. Financial support of our sponsors: *Ministry of Science and Technological Development of the Republic of Serbia, Belgrade; Project 144032 (Geometry, Education and Visualization with Applications), Belgrade; and ICTP – SEENET–MTP grant RRJ-09 “Cosmology and Strings”, Niš*, was very significant for realization of this activity.

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