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PREFACE

The **Conference on Partial Differential Equations and Applications, Sofia, September 14–16, 2011 (In honor of 65-th Anniversary of Professor Petar Popivanov)** took place in the premises of the Institute of Mathematics and Informatics (IMI) of the Bulgarian Academy of Sciences (BAS). The conference was organized by the Section "Differential Equations and Mathematical Physics" of IMI with the participation of research groups on PDE from Università di Cagliari and Università di Torino (Italy), with the organizing committee – N. Kutev (IMI–BAS) – chair, G. Boyadzhiev (IMI–BAS) – secretary, T. Gramchev (Univ. Cagliari) and A. Oliaro (Univ. Torino) – members, and the following program/scientific committee: T. Gramchev (chair), N. Kutev (IMI–BAS), L. Rodino (Università di Torino), M. Ruzhansky (Imperial College London), A. Slavova (IMI–BAS), C. Van Der Mee (Università di Cagliari).

There were 30 talks given by participants from academic centers from 5 countries (Bulgaria – 7, Italy – 7, Germany – 1, Ireland – 1, UK – 1), 7 invited lectures of 45 min, 7 invited regular talks of 30 min and 6 short communications of 20 minutes. There was an informal open problem session and the possibilities for informal seminars and discussions with many participants. More details on the conference are available on the website of IMI (`www.math.bas.bg`), the section News & Events, and then clicking Archive one finds all events in the recent years.

Most of the talks are published in the present volume. Each paper was accepted for publication after an international refereeing process. The volume starts with short notes dedicated to the jubilee of Prof. Petar R. Popivanov. The editor would like to thank to all referees.

On behalf of the organizing committee special thanks to the director of IMI at that time Prof. Stefan Dodunekov, for his encouragement and for giving the possibility to use the facilities of the institute. Unfortunately, during the preparation of this volume, on August 5, 2012, Prof. Dodunekov passed away – a big loss for the Bulgarian and the international mathematical community.

We express our high appreciations to all participants and to G. Boyadzhiev (and the Section "Differential Equations and Mathematical Physics" of IMI as

a whole) for the help and the support making possible the organization of the conference and the preparation of the present volume.

Finally, many thanks to Mrs. T. Parchomenko for the huge work and the excellent job making possible this publication.

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The Editor
Todor Gramchev

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