Preface

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PREFACE

This volume contains lectures presented at the International School "Nonlinear Analysis, Function Spaces and Applications 9" held on 11–17 September 2010 in the Conference Centre of the Academy of Sciences of the Czech Republic in Třešť and organized by the Institute of Mathematics AS CR in collaboration with the Faculty of Mathematics and Physics of the Charles University at Prague. In addition to the six invited lectures, the proceedings include two papers presented by V. Kokilashvili and H.-J. Schmeisser on the occasion the sixtieth birthday of two members of the Organizing Committee, M. Krbec and J. Rákosník. Twenty participants used the possibility to present their results in short communications.

Invited speakers (left to right): W. Sickel, J. Onninen, P. Drábek, G. Mingione, X. Tolsa, L. Grafakos

As the rule, each paper included in the proceedings was sent to a reviewer. We wish to express our thanks to all colleagues who provided their opinions thus contributing to the high quality of the presented texts.

The Organizing Committee of the 2010 School was formed by P. Gurka (Czech University of Life Sciences), A. Gogatishvili, P. Honzík, M. Krbec, A. Kufner, B. Opic, J. Rákosník (Institute of Mathematics AS CR), R. Černý, S. Hencl, L. Pick (Charles University), and A. Nekvinda (Czech Technical University).

The series of (Spring) Schools has been organized in four years period since 1978 with the aim to bring together a broad audience including experienced mathematicians as well as students and to offer them extensive surveys of recent developments in the named fields delivered by distinguished specialists.

The following list of proceedings including the names of invited speakers offers a brief overview of the Spring Schools series:

Vol. 1, Horní Bradlo, 1978 (S. Fučík, A. Kufner, eds.). Teubner-Texte Math. 19, BSB B. G. Teubner Verlagsgesellschaft, Leipzig, 1979.
A. Avantaggiati, J. Camus, Yu. A. Dubinskii, D. E. Edmunds, J.-P. Gossez, K. Gröger, I. Hlaváček, H. Triebel.

Vol. 2, Písek, 1982 (O. John, A. Kufner, eds.). Teubner-Texte Math. 49, BSB B. G. Teubner Verlagsgesellschaft, Leipzig, 1982. ISSN 0138-502X.
J. Ball, C. Baiocchi, V. I. Burenkov, M. Giaquinta, K. Hadeler, P.-L. Lions, V. G. Maz'ya, I. V. Skrypnik, J. R. L. Webb.

Vol. 3, Litomyšl, 1986 (M. Krbec, A. Kufner, J. Rákosník, eds.). Teubner-Texte Math. 93, BSB B. G. Teubner Verlagsgesellschaft, Leipzig, 1986. ISBN 3-322-00417-1, ISSN 0138-502X.
D. R. Adams, O. V. Besov, L. I. Hedberg, H. P. Heinig, R. Johnson, L. D. Kudryavtsev, H. Lange, A. McIntosh, J. Musielak, J. Peetre, B. Ruf.

Vol. 4, Roudnice nad Labem, 1990 (M. Krbec, A. Kufner, B. Opic, J. Rákosník, eds.). Teubner-Texte Math. 119, BSB B. G. Teubner Verlagsgesellschaft, Leipzig, 1990. ISBN 3-322-00825-8, ISSN 0138-502X.
J. García-Cuerva, H. P. Heinig, V. Kokilashvili, V. Mustonen, L. E. Persson, G. F. Roach, C. G. Simader, S. K. Vodop'yanov.

Vol. 5, Praha, 1994 (M. Krbec, A. Kufner, B. Opic, J. Rákosník, eds.). Prometheus Publishing House and Mathematical Institute, Czech Academy of Sciences, Praha, 1994. ISBN 80-85849-69-0.
F. Chiarenza, D. E. Edmunds, B. Kawohl, F. J. Martín-Reyes, E. T. Sawyer, V. D. Stepanov, G. Talenti, R. L. Wheeden.

Vol. 6, Praha, 1998 (M. Krbec, A. Kufner, eds.). Mathematical Institute, Czech Academy of Sciences, Praha, 1999. ISBN 80-85823-38-1.
V. I. Burenkov, A. Chianchi, F. Cobos, V. Maz'ya, L. Pick, H. Triebel, I. E. Verbitsky, W. P. Ziemer.

Vol. 7, Praha, 2002 (B. Opic, J. Rákosník, eds.). Mathematical Institute, Czech Academy of Sciences, Praha, 2003. ISBN 80-85823-51-9.
J. Appell, J. Cerdà, B. Franchi, P. Koskela, J. Malý, C. J. Neugebauer.

Vol. 8, Praha, 2006 (J. Rákosník, ed.). Institute of Mathematics AS CR, Praha, 2007. ISBN 978-80-85823-50-9.
A. Carbery, V. Kolyada, M. Růžička, Y. Sagher, H.-J. Schmeisser, G. Sinnamon.

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The content of all volumes can be downloaded from the Czech Digital Mathematics Library `http://dml.cz/handle/10338.dmlcz/702400`.