Preface

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PREFACE

This volume contains five invited lectures presented at the Spring School "Nonlinear Analysis, Function Spaces and Applications 8" held from May 30 to June 6, 2006, in Prague and organized by the Mathematical Institute of the Academy of Sciences of the Czech Republic in collaboration with the Czech University of Agriculture at Prague. Unfortunately, the text of the sixth, excellent as well as instructive lecture "Byways of the Hilbert transform and norm inequalities for the Fourier transforms" presented by Yoram Sagher of Florida Atlantic University could not be included.

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. It grew into a habit that the participants were given the possibility not only to follow the main lectures but also to exchange ideas in seminars with short communications.

As the rule, each paper was sent to a referee. We thank all colleagues who giving us their opinion contributed to the high quality of the texts.

The Organizing Committee consisted of P. Gurka (Czech University of Agriculture), A. Gogatishvili, M. Krbec, A. Kufner – Honorary Chairman, B. Opic – Chairman and J. Rákosník (all Mathematical Institute AS CR), J. Lang (Ohio State University), L. Dostál and L. Pick (both Charles University), A. Nekvinda (Czech Technical University).

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.

6

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.
http://www.emis.de/proceedings/Praha94/index.html

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.
http://www.emis.de/proceedings/Praha98/index.html

Vol. 7, Praha, 2002 (B. Opic, J. Rákosník, eds.). Mathematical Institute, Czech Academy of Sciences, Praha, 1999. ISBN 80-85823-51-9.
J. Appell, J. Cerdà, B. Franchi, P. Koskela, J. Malý, C. J. Neugebauer.

A limited number of printed volumes is still available in the Library of the Mathematical Institute AS CR. Orders can be sent to the address `library@math.cas.cz`.

The invited speakers (left to right): Y. Sagher, M. Růžička, A. Carbery, G. Sinnamon, H.-J. Schmeisser, V. Kolyada