

# Contents

<i>Preface</i>	<i>iii</i>
<i>Contributors</i>	<i>ix</i>
<i>Conference Program</i>	<i>xiii</i>
<i>Conference Participants</i>	<i>xvii</i>
Nonlinear evolution equations in Banach spaces: Basic results and open problems <i>Philippe Bénylan and Petra Wittbold</i>	1
Vector-valued versions of some representation theorems in real analysis <i>W. Arendt</i>	33
Inhomogeneous Volterra integrodifferential equations for Hille-Yosida operators <i>Rainer Nagel and Eugenio Sinestrari</i>	51
Nonlinear almost periodic actions of semigroups <i>Vũ Quốc Phóng</i>	71
Stability of the $L_p$ -spectrum of Schrödinger operators with form-small negative part of the potential <i>Gabriele Schreieck and Jürgen Voigt</i>	95
Singularity theory and semilinear elliptic equations <i>T. Runst</i>	107

Random approximation in numerical analysis <i>Stefan Heinrich</i>	123
Best constants for the norm of the complexification of operators between $L_p$ -spaces <i>Andreas Defant</i>	173
Antisymmetric tensor products of nuclear operators on Banach spaces <i>Stefan Geiss</i>	181
Absolutely summing composition operators <i>Hans Jarchow</i>	193
Factorization of operator ideals and bounded sets in tensor products of locally convex spaces <i>H. Junek</i>	203
Real interpolation of Hardy spaces on the disk and on the bidisc <i>S.V. Kisiakov</i>	217
Vector-valued Lagrange interpolation and mean convergence of Hermite series <i>Hermann König</i>	227
Orthonormal trigonometric systems and Banach space geometry <i>Albrecht Pietsch and Jörg Wenzel</i>	249
Spaces of Lipschitz functions on Banach spaces <i>Charles Stegall</i>	265
Some lifting theorems for bounded linear operators <i>Dirk Werner</i>	279
Invariant subspaces for certain representations of $H^\infty(G)$ <i>Ernst Albrecht and Bernard Chevreau</i>	293
On unbounded Calkin representations <i>Klaus-Detlef Kürsten</i>	307
Differentiability of the norm in $C^*$ -algebras <i>Keith F. Taylor and Wend Werner</i>	329
Properties of function spaces depending on the dimension of their domains and related topics <i>Aleksander Pełczyński</i>	345
Continuous linear right inverses for partial differential operators with constant coefficients and Phragmén-Lindelöf conditions <i>R. Meise, B.A. Taylor and D. Vogt</i>	357
Convergent sequences in duals of Fréchet spaces <i>José Bonet and Mikael Lindström</i>	391
Complementability and injectivity of Fréchet spaces of continuous vector-valued functions <i>Paweł Domański and Lech Drewnowski</i>	405

Differentiable functions and the $\bar{\partial}$ -complex <i>Michael Langenbruch</i>	415
Division problems in spaces of entire functions of finite order <i>Siegfried Momm</i>	435
On the Liouville property of section spaces of coherent analytic sheaves <i>V.P. Palamodov</i>	459
Tame splitting theory for Fréchet-Hilbert spaces <i>Markus Poppenberg and Dietmar Vogt</i>	475
Fréchet spaces between which all continuous linear maps are compact <i>M.S. Ramanujan and Dietmar Vogt</i>	493
Spaces of harmonic functions <i>V. Zahariuta</i>	497
<i>Index</i>	523