

**Operator Theory:
Advances and Applications
Vol. 43**

OT 43

Linear Operators in Function Spaces

**12th International Conference
on Operator Theory
Timișoara (Romania)
June 6–16, 1988**

Volume Editors

**H. Helson
B. Sz.-Nagy
F.-H. Vasilescu**

**Managing Editor
Gr. Arsene**

Birkhäuser

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Vol. 43

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C O N T E N T S

	Foreword	7
	List of participants	8
	Programme of the conference	11
ADAMJAN, V.M.	Asymptotic properties for positive Toeplitz matrices and operators	17
ALBRECHT, E. ; WIRTZ, P.M.	Multicyclic systems of commuting operators	39
AROV, D.Z.	Regular J-inner matrix-functions and related continuation problems	63
ARSU, G.	Spectral analysis for simply characteristic operators by Mourre's method. I.	89
ARZUMANIAN, V. ; GRIGORIAN, S.	Noncommutative uniform algebras	101
AZIZOV, T.Ya.	Operator theory in Krein spaces and operator pencils	111
BOCA, FL. ; NITICĂ, V.	Extensions of groups and simple C^* -algebras	123
CLARK, D.N.	The Krein space $(\phi H^2)^\perp$ and coefficients of analytic functions	131
CONSTANTINESCU, T.	Completions and extensions	141
CURTO, R.E. ; FIALKOW, L.A.	Operator factorizations and quasi-similarity orbits	151
ESCHMEIER, J.	Multiplication operators on Bergman spaces are reflexive	165
GEORGIEV, V.S.	Uniform boundness of the energy for time-periodic potentials	185
HELEMSKII, A.Ya.	Homology in Banach and polynormed algebras: some results and problems	195
HELSON, H.	Large analytic functions	209

JANAS, J. ; RUDOL, K.	Toeplitz operators on the Segal-Bargmann space of infinitely many variables	217
JONAS, P.	A note on perturbations of selfadjoint operators in Krein spaces	229
MARTIN, M.	Projective representations of compact groups in C^* -algebras	237
NAGY, G.	On the general stable rank for pairs	255
NICA, AI.	Wiener-Hopf operators on the positive semigroup of a Heisenberg group	263
POP, FL.	Derivations of certain nest-subalgebras of von Neumann algebras	279
RICKER, W.	Boolean algebras of projections and spectral measures in dual spaces	289
ROVNYAK, J.	A vector extension of Loewner's differential equation	301
SZAFRANIEC, F.H.	A RKHS on entire functions and its multiplication operator. An explicit example	309
VASILESCU, F.-H.	Joint spectral properties for pairs of permutable selfadjoint transformations	313
WAELBROECK, L.	Holomorphic functions taking their values in a quotient bornological space	323
WOLLENBERG, M.	On causal nets of algebras	337
ZAROUF, F.	On uniform dual algebras.....	345

FOREWORD

The Operator Theory conferences, organized by the Department of Mathematics of INCREST and the Department of Mathematics of the University of Timisoara, are conceived as a means to promote cooperation and exchange of information between specialists in all areas of operator theory. This book comprises carefully selected papers on theory of linear operators and related fields. Original results of new research in fast developing areas are included. Several contributed papers focus on the action of linear operators in various function spaces. Recent advances in spectral theory and related topics, operators in indefinite metric spaces, dual algebras and the invariant subspace problem, operator algebras and group representations as well as applications to mathematical physics are presented.

The research contacts of the Department of Mathematics of INCREST with the National Committee for Science and Technology of Romania provided means for developing the research activity in mathematics; they represent the generous framework of these meetings too.

It is our pleasure to acknowledge the financial support of UNESCO which also contributed to the success of this meeting.

We are indebted to Professor Israel Gohberg for including these Proceedings in the OT Series and for valuable advice in the editing process. Birkhauser Verlag was very cooperative in publishing this volume.

Camelia Minculescu, Irén Némethi and Rodica Stoenescu dealt with the difficult task of typing the whole manuscript using a Rank Xerox 860 word processor; we thank them for this excellent job.

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PROGRAMME OF THE CONFERENCE

Tuesday, June 7

Joint Session

Chairman: D. Herrero

- 9.00- 9.45 **H. Helson:** Large analytic functions.
- 9.50-10.35 **E. Albrecht:** Multicyclic n-tuples of commuting operators.
- 10.50-11.35 **J. Eschmeier:** Operators with rich invariant subspace lattices.
- 11.40-12.25 **M. Putinar:** On the division of vector valued distributions by linear functions.

Section A

Chairman: Gr. Arsene

- 16.00-16.30 **R. Gologan:** Another proof of the subadditive ergodic theorem.
- 16.35-17.05 **W.J. Ricker:** Boolean algebras of projections and spectral measures in dual spaces.
- 17.20-17.50 **St. Frunză:** The extension problem for n-coadjoint and n-isometric operators on Hilbert spaces.
- 17.55-18.25 **F. Zouakia:** Stabilité des semigroupes d'opérateurs.

Section B

Chairman: V. Pták

- 16.00-16.30 **S. Bálint:** Linear operators, several complex variables and power systems.
- 16.35-17.05 **M. Craioveanu, M. Puta:** Basic de Rham cohomology.
- 17.20-17.35 **H. Turnușu:** Inclusion with speed of summability methods in the class of functional series.
- 17.40-17.55 **C. Volanschi:** A proof for reconstructing matrix conjecture.

Wednesday, June 8

Joint Session

Chairman: J. Rovnyak

- 9.00- 9.45 **D. Herrero:** All about triangular operators.
- 9.50-10.35 **R.E. Curto:** Operator factorizations and quasimilarity orbits.
- 10.50-11.35 **B. Sz.-Nagy:** Operators similar to isometries.
- 11.40-12.25 **V. Pták:** Intertwining relations.

Section A

Chairman: I. Suciu

- 16.00-16.30 **F.H. Szafraniec:** The multiplication operator over **C**. An explicit example.
- 16.35-17.05 **K. Rudol:** Toeplitz operators on the Bergman space of infinitely many variables.
- 17.20-17.50 **T. Nakazi:** Commuting dilations and uniform algebras.
- 17.55-18.10 **N. Ivanovski:** Quasimilarity of bilateral operator weighted shifts.
- 18.15-18.30 **F. Pop :** Some results on nest-subalgebras of von Neumann algebras.

Section B

Chairman: R.E. Curto

- 16.00-16.30 **V.A. Shtraus:** Functional models for operators acting in indefinite inner product spaces.
- 16.35-17.05 **A. Terescenco:** Categories of quotient Banach spaces.
- 17.20-17.35 **A. Marzouk:** Fonctions généralisées solutions d'équations algébriques.

Thursday, June 9

Joint Session

Chairman: D.Z. Arov

- 9.00-9.45 **M. Wollenberg:** On causal nets of causal algebras.
- 9.50-10.35 **V. Georgescu:** Conjugate operators and limiting absorbtion principle.
- 10.50-11.35 **Gh. Nenciu:** Asymptotic invariant subspaces for evolution operators.
(Adiabatic theorem of Quantum Mechanics).
- 11.40-12.10 **V. Georgiev:** RAGE theorem for power bounded operators.

Section A

Chairman: D. Gaspar

- 16.00-16.30 **E.R. Tsekanovski:** Accretive and sectorial extensions and characteristic operator functions.
- 16.35-17.05 **J. Janas:** Inductive limit of Toeplitz operators.
- 17.20-17.35 **R. Gadidov:** Choice sequences and subisometric dilations.
- 17.40-17.55 **V. Ionescu:** Processes with parameter periodicities.
- 18.00-18.15 **P. Găvrută, D. Păunescu:** Moment problems for operators.

Section B

Chairman: M. Reghis

- 16.00-16.30 **M. Pascu:** Asymptotic completeness of the wave operators for simply characteristic operators and long-range potentials by Enss method.
- 16.35-17.05 **G. Arsu:** Spectral analysis for simply characteristic operators by Mourre's method.
- 17.20-17.35 **K.N. Boyadzhiev:** Some notes on the Pincus principal function and on the Krein spectral shift function.
- 17.40-17.55 **T.S. Todorov:** On irreducibility properties of unbounded operator *-algebras.
- 18.00-18.15 **M. Puta:** The integrability problem at quantic level.

Friday, June 10

Joint Session

Chairman: H. Helson

- 9.00- 9.45 **J.Rovnyak:** Contractive substitution transformations.
- 9.50-10.35 **V.M. Adamyan:** Asymptotic relations for the positive Toeplitz matrices and operators.
- 10.50-11.35 **Gr. Arsene, Zoia Ceausescu, T. Constantinescu:** On some completion problems.
- 11.40-12.25 **T. Constantinescu:** Consequences of some completion problems.

Section A

Chairman: B.Sz.-Nagy

- 16.00-16.30 **Zoia Ceausescu, I. Suciu:** Extreme points in the set of contractive intertwining dilations.

- 16.35-17.05 **D. Gaspar, N. Suciu, I. Valusescu:** Factorizations and Szegő theorem for semispectral measures on \mathbf{T}^2 .
- 17.20-17.35 **G. Popescu:** Multi-analytic operators and some factorization theorems.
- 17.40-17.55 **M. Zajac:** Pairs of commuting contractions.
- 18.00-18.15 **M. Bákonyi:** Spectral factors and analytic completion.
- 18.30-19.30 **J. Rovnyak:** Seminar.

Section B

Chairman: N. Popa

- 16.00-16.30 **G. Godini:** Operators in normed almost linear spaces.
- 16.35-17.05 **C. Niculescu:** Alfsen-Effros structures associated to a vector norm.
- 17.20-17.35 **A. Ivanov:** Compatibility and commutativity in orthomodular lattices.
- 17.40-17.55 **E. Oja:** M-ideals of compact operators.
- 18.00-18.15 **D. Vuza:** Characterization of Carleman operators.

Saturday, June 11

Joint Session

Chairman: L. Waelbroeck

- 9.00- 9.45 **P. Vrbova:** Some remarks on lifting intertwining relation for contractions.
- 9.50-10.35 **P.R. Masani:** Stationary measures over L.C.A. groups Γ .
- 10.50-11.35 **N. Popa:** Isomorphism theorems for dyadic Hardy spaces H_∞ .
- 11.40-12.25 **D. Vuza:** Operators of convolution type and their applications to a problem of H.H. Schaefer.

Monday, June 13

Joint Session

Chairman: P.R. Masani

- 9.00- 9.45 **A.Ya. Helemskii:** Results and problems on the homology of the "Algebras in Analysis".
- 9.50-10.35 **F. Rădulescu:** On smooth extensions for odd dimensional spheres.
- 10.50-11.35 **M. Dădărlat, A. Némethi:** Shape theory for C^* -algebras.
- 11.40-12.25 **V. Nistor:** Homotopy properties of automorphisms of AF-algebras.

Section A

Chairman: A.Ya. Helemskii

- 16.00-16.30 **R.N. Levy:** Chern character for n-tuples of operators.
- 16.35-17.05 **M. Martin:** Algebraic manifolds associated with convolution subalgebras of a C^* -algebra.
- 17.20-17.35 **A. Kyriazis:** Tensor product algebra bundles.
- 17.40-17.55 **A. Nica:** Some remarks on the C^* -algebras of the positive cones of H_3 and H_4 .
- 18.00-18.15 **A. Török:** AF-algebras with unique trace.
- 18.20-18.35 **Maria Fragoulopoulou:** Tensor products of locally C^* -algebras and applications.
- 18.40-19.40 **D.Z. Arov:** Seminar.

Tuesday, June 14

Joint Session

Chairman: E. Albrecht

- 9.00- 9.45 **L. Waelbroeck:** Holomorphic functions taking their values in quotient spaces.
- 9.50-10.35 **F.-H. Vasilescu:** A multioperator spectral theory in quotient Fréchet spaces.
- 10.50-11.35 **S. Axler:** Hankel operators on Bergman spaces.

Section A

Chairman: S. Strátilă

- 16.00-16.30 **V. Arzumanian, S. Grigorian:** Noncommutative uniform algebras.
- 16.35-17.05 **C. Pasnicu, M. Dădărlat:** Inductive limits of $C(X)$ -modules and continuous fields of AF-algebras.
- 17.20-17.35 **V. Deaconu:** Automorphisms of AF-algebras.
- 17.40-17.55 **F. Boca, V. Nitica:** Combinatorial properties of simple groups and C^* -algebras with unique trace.
- 18.00-18.15 **G. Nagy:** On lifting invertible elements from quotient C^* -algebras.
- 18.30-19.30 **V.M. Adamyan:** Seminar.

Wednesday, June 15

Joint Session

Chairman: V.M. Adamyan

- 9.00- 9.45 **P. Jonas:** On compact perturbations of definitizable operators in Krein space.
- 9.50-10.35 **D.Z. Arov:** Regular J-inner matrix-functions and corresponding extension problems.
- 10.50-11.35 **D.N. Clark:** The Krein space Φ_H^2 .
- 11.40-12.25 **T.Ia. Azizov:** Operator theory in indefinite inner product spaces and operator pencils.
- 14.45-15.45 **D.N. Clark:** Seminar.

Section A

Chairman: D.N. Clark

- 16.00-16.30 **A. Gheondea:** A geometric question concerning the strong duality of neutral spaces.
- 16.35-17.05 **F. Zarouf:** Sur les opérateurs sous-normaux de la classe A.
- 17.20-17.35 **B. Prunaru:** Rational approximation and invariant subspaces.
- 17.40-17.55 **A. Halanay:** On the existence of invariant subspaces for some contractions with spectrum dominating an arc on the unit circle.
- 18.00-18.15 **V. Nistor:** A C^* -algebra which is not the C^* -algebra of a grupoid.

Thursday, June 16

Joint Session

Chairman: F.-H. Vasilescu

- 9.00- 9.45 **G. Exner:** Analytic invariant subspaces and the class A.
- 9.50-10.35 **B. Chevreau:** Contractions with isometric functional calculus are reflexive.
- 10.50-11.20 **V. Müller:** The numerical radius of commuting products.
- 11.30-12.30 **B. Chevreau:** Seminar.