

CONTENTS

Section A + C

P. M. ALBERTI, A. UHLMANN (LEIPZIG) Transition probabilities on W^* - and C^* -algebras	5
S. ALBEVERIO (BOCHUM), F. GESZTESY (GRAZ), R. HØEGH-KROHN (OSLO), H. HOLDEN (OSLO) Some exactly solvable models in quantum mechanics and the low energy expansions	12
J.-P. ANTOINE (LOUVAIN-LA-NEUVE), W. KARWOWSKI (WROCŁAW) Partial $*$ -algebras of Hilbert space operators	29
H. BAUMGÄRTEL, M. WOLLENBERG (BERLIN) An inverse scattering approach to constructive quantum field theory	40
H. J. BORCHERS (GÖTTINGEN) States and semi-norms on abelian algebras	47
H. BOSECK (GREIFSWALD) On the enveloping algebra of a Lie superalgebra and its dual and bidual	57
J. DE CANNIÈRE (LEUVEN) Passive states and the ideal Fermi gas	64
G. EPIFANIO, C. TRAPANI (PALERMO) Commutants of unbounded operator algebras, V^* -algebras and applications to theoretical physics	73
W. FUSHCHICH (KIEV) Группы Ли и точные решения многомерных нелинейных уравнений Даламбера, Лиувилля, Шредингера, Дирака	76
N. GONCHAR (KIEV) Mathematical description of phase transition in the hard sphere model	85
S. S. HORUZHY, V. N. SUSHKO, A. V. VORONIN (MOSCOW) Op^* -algebras and vacuum superselection rules	96
L. KAHANPÄÄ (JYVÄSKYLÄ) Good approximations of non-cyclic vectors by cyclic vectors of the unilateral shift operator	103
K.-D. KÜRSTEN (LEIPZIG) On topological properties of domains of unbounded operator algebras	105
F. MATHOT, J. SHABANI (LOUVAIN-LA-NEUVE) Generalized unbounded commutants	108
D. PETZ (BUDAPEST) The relative entropy of states of von Neumann algebras	112
K. SCHMÖDGEN (LEIPZIG) Commutation properties of unbounded self-adjoint operators and self-adjoint $*$ -representations of polynom algebras	118

A. VERBEURE (LEUVEN)	
On quantum detailed balance	129
Yu. M. ZINOVIEV (MOSCOW)	
R-gauge theories and Wilson's criterion	135

Section B

E. BEHREND (BERLIN (WEST))	
The continuity space of a Banach space	139
J. BOURGAIN (BRUSSELS)	
On non-isomorphisms of algebras of analytic functions	145
B. CARL (JENA)	
Entropy moduli and eigenvalues of operators in Banach spaces	155
H. JARCHOW (ZURICH)	
On operator ideals related to type 2 and cotype 2 operators .	164
R. J. KAISER, J. R. RETHERFORD (BATON ROUGE)	
Eigenvalue distribution of nuclear operators: a survey	173
C. NICULESCU (CRAIOVA)	
Operators defined on Banach lattices	178
A. PIETSCH (JENA)	
Ideals of multilinear functionals (designs of a theory)	185
A. PLANS (ZARAGOZA)	
Another proof of a result of Paolo Terenzi	200
N. POPA (BUCHAREST)	
Integral and Carleman operators on Banach lattices	203
D. VUZA (BUCHAREST)	
Principal modules of linear maps and their applications	212
L. W. WEIS (KAISERSLAUTERN)	
A characterization of Enflo-operators	220
J. ZEMANEK (WARSAW)	
On the Δ -characteristic of M. Schechter	232
LIST OF PARTICIPANTS	235