



FIELDS INSTITUTE COMMUNICATIONS

THE FIELDS INSTITUTE FOR RESEARCH IN MATHEMATICAL SCIENCES

Operator Algebras and Their Applications

Peter A. Fillmore
James A. Mingo
Editors



American Mathematical Society
Providence, Rhode Island

Contents

Preface	vii
Minimal E_0 -Semigroups WILLIAM ARVESON	1
Bimodules, Higher Relative Commutants and the Fusion Algebras Associated to a Subfactor DIETMAR BISCH	13
On Selfdual Hilbert Modules DAVID P. BLECHER	65
K�nneth Splittings and Classification of C^* -Algebras with Finitely Many Ideals S�REN EILERS	81
Cut-Down Method in the Inductive Limit Decomposition of Non-Commutative Tori, II: The Degenerate Case GEORGE A. ELLIOTT and QING LIN	91
A Classification of Simple Limits of Dimension Drop C^* -Algebras GEORGE A. ELLIOTT, GUIHUA GONG, XINHUI JIANG and HONGBING SU	125
Remarks on the Baum-Connes Conjecture and Kazhdan's Property T PIERRE JULG	145
Integer Groups of Coinvariants Associated to Octagonal Tilings JOHANNES KELLENDEK	155
On the Existence of Traces on Exact Stably Projectionless Simple C^* -Algebras EBERHARD KIRCHBERG	171
Crossed Products of Cuntz Algebras By Quasi-Free Automorphisms AKITAKA KISHIMOTO and ALEXANDER KUMJIAN	173

Almost Commuting Selfadjoint Matrices and Applications HUAXIN LIN	193
Real Rank of Multiplier Algebras of C^* -Algebras of Real Rank Zero HUAXIN LIN and HIROYUKI OSAKA	235
Approximate Unitary Equivalence of Homomorphisms From Odd Cuntz Algebras N. CHRISTOPHER PHILLIPS	243
Classification of Certain Infinite Simple C^* -Algebras, III MIKAEL RØRDAM	257
KMS States and Phase Transitions, II SHŌICHRŌ SAKAI	283
Asymptotic Morphisms and E-Theory JONATHAN SAMUEL	291
Representing K_1 in the Unitary Group KLAUS THOMSEN	315